LINCOLN MIDDLE SCHOOL
COMMUNITY HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, COLORADO 80521

OWNER:

POUDRE SCHOOL DISTRICT
2445 LAPORTE AVENUE
FORT COLLINS, COLORADO 80521
PHONE: 970|490|3017
EMAIL: jlee@psdschools.org

Jason Lee
Construction Project Manager

ARCHITECT:

KALERT CONSULTING GROUP|LLC
2429 STONECREST DRIVE
FORT COLLINS, COLORADO 80521
PHONE: 970|412|3049
EMAIL: tomkalert@gmail.com

Tom Kalert|AIA
Architect

MEP:

IMEG|CORP
7600 EAST ORCHARD ROAD|SUITE 250-S
GREENWOOD VILLAGE, COLORADO 80111
PHONE: 303|796|6000
EMAIL: brian.r.eagleton@imegcorp.com

Brian Eagleton|P.E.
Senior Mechanical Engineer

FIRE:

TLH FIRE
6901 SOUTH PIERCE STREET
LITTLETON, COLORADO 80128
PHONE: 303|517|9558
EMAIL: tami@holleyfpe.com

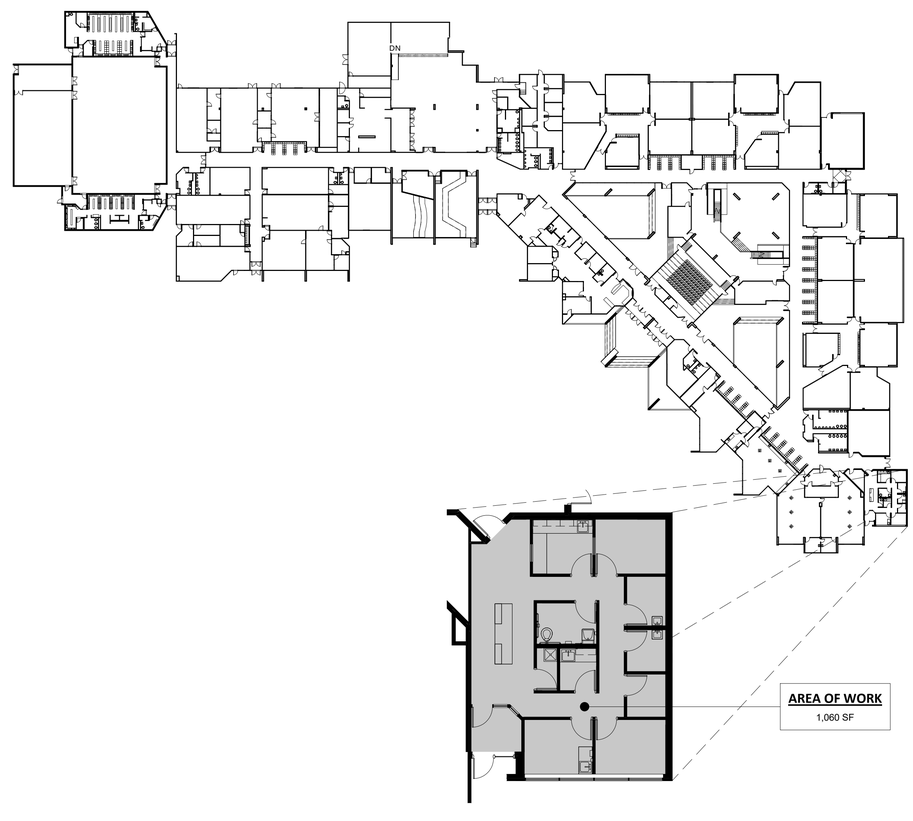
Tami Holley|P.E.
Fire Protection Engineer

DRAWING INDEX:

A0	TITLE SHEET, VICINITY MAP AND CODE INFORMATION
A1	ACCESSIBILITY AND EXITING PLAN AND CODE INFORMATION
A2	DEMO AND NEW FLOOR PLANS, CEILING PLAN, DOOR AND ROOM FINISH SCHEDULE
A3	INTERIOR ELEVATIONS AND DETAILS
M0	MECHANICAL COVER SHEET
M1	MECHANICAL DEMOLITION AND NEW PLANS
M1.1	MECHANICAL PIPING DEMOLITION AND NEW PLANS
M2	MECHANICAL ROOF DEMOLITION AND NEW PLANS
M3	MECHANICAL DETAILS
M3.0	MECHANICAL DETAILS
M3.1	MECHANICAL SCHEDULES
M3.2	MECHANICAL CONTROLS
M4	MECHANICAL COMCHECK
P0	UNDERFLOOR PLUMBING DEMOLITION AND NEW PLANS
P1	PLUMBING DEMOLITION AND NEW PLANS
P2	PLUMBING DETAILS
P2.1	PLUMBING RISERS
P3	PLUMBING SCHEDULES
E0	ELECTRICAL COVER SHEET
E1	POWER DEMOLITION AND NEW PLANS
E2	LIGHT DEMOLITION AND NEW PLANS
E3	ELECTRICAL ROOF DEMOLITION AND NEW PLANS
E4	ELECTRICAL ONE-LINE DIAGRAM
E5	ELECTRICAL DETAILS AND SCHEDULES
T0	TECHNOLOGY COVER SHEET
T1	TECHNOLOGY DEMOLITION AND NEW PLANS
T2	TECHNOLOGY DETAILS
T3	TECHNOLOGY SCHEDULES

ABBREVIATIONS:

ACOUS.	ACOUSTICAL
A.F.F.	ABOVE FINISH FLOOR
ARCH.	ARCHITECTURAL
BD.	BOARD
BLDG.	BUILDING
BLKG.	BLOCKING
BOT.	BOTTOM
BSMT.	BASEMENT
C.J.	CONTROL JOINT
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CPT.	CARPET
DBL.	DOUBLE
DEPT.	DEPARTMENT
DIA.	DIAMETER
DIM.	DIMENSION
DIV'D.	DIVIDED
DN.	DOWN
DR.	DOOR
DWG.	DRAWING
(E)	EXISTING
EA.	EACH
E	EAST
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
EP.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
F.A.	FIRE ALARM
F.C.P.	FIRE CONTROL PANEL
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.	FINISH FLOOR
F.F.E.	FINISH FLOOR ELEVATION
F.E.C.	FIRE EXTINGUISHER CAB.
FIN.	FINISH
FIXT.	FIXTURE
FL.	FLOOR
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
FR.	FRAME
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GYP.	GYPSUM
HDR.	HEADER
HDWE.	HARDWARE
HORIZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
LAV.	LAVATORY
LOUV.	LOUVER
LT.	LIGHT
MATL.	MATERIAL
MECH.	MECHANICAL
MEP.	MECHANICAL, ELECTRICAL, PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
(N)	NEW
N.	NORTH
N.E.	NORTHEAST
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
OPP.	OPPOSITE
OPP.HD.	OPPOSITE HAND
P.L.	PROPERTY LINE
P.LAM.	PLASTIC LAMINATE
P.T.D.	PAPER TOWEL DISPENSER
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
REQ'D.	REQUIRED
R.H.	RIGHT HAND
R.O.W.	RIGHT OF WAY
S	SOUTH
S.E.	SOUTH EAST
SECT.	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
S.F.	SQUARE FOOT
SHT.	SHEET
S.L.D.	SEE LANDSCAPE DRAWINGS
S.M.D.	SEE MECHANICAL DRAWINGS
S.P.D.	SEE PLUMBING DRAWINGS
SPECS.	SPECIFICATIONS
S.S.D.	SEE STRUCTURAL DRAWINGS
STOR.	STORAGE
STRUCT.	STRUCTURAL
TEMP.	TEMPERED
T & G	TONGUE AND GROOVE
T.O.P.	TOP OF PLATE
T.O.W.	TOP OF WALL
T.P.	TOILET PARTITION
T.O.	TOP OF
TYP.	TYPICAL
U.B.C.	UNIFORM BUILDING CODE
U.L.	UNDERWRITER'S LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIF'Y IN FIELD
W.	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W/O	WITHOUT
WT.	WEIGHT
YD.	YARD



KEY AND AREA OF WORK PLAN:

NOT TO SCALE

N

VICINITY MAP:

NOT TO SCALE

N

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
TITLE SHEET, VICINITY MAP AND CODE INFORMATION

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED IN THESE DOCUMENTS, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED ON ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

ISSUE FOR BIDDING

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN: DAM
CHECKED: KCG
DATE: 07.09.21
SHEET NO. A0

CODE INFORMATION:

CODE USED:	2015 IBC, IFC, IMC, IEBC, IECC, IRC, 2018 IFGC, 2020 NEC, 2018 COLORADO PLUMBING CODE ICC/ANSI A117.1 - 2009 ACC. STANDARDS
BUILDING OWNER:	POUDRE SCHOOL DISTRICT
BUILDING OCCUPANCY:	E
BUILDING TYPE:	V-B
NUMBER OF STORIES:	1
FIRE RATED ASSEMBLIES:	EXISTING TO REMAIN
FIRE PROTECTION:	EXISTING - NON-SPRINKLERED TO REMAIN EXISTING FIRE ALARM UPGRADE TO INCLUDE VOICE EVACUATION SYSTEM

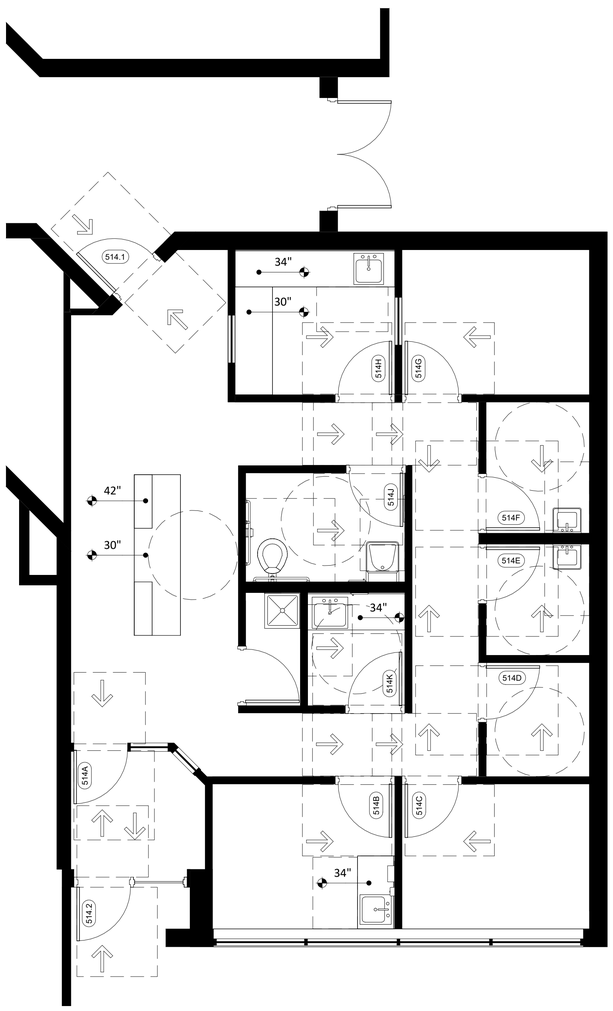
AREA OF WORK:

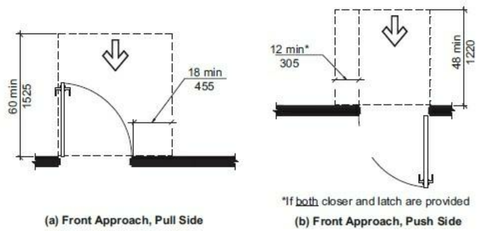
AREA OF WORK:	1,060 +/- SF
ALTERATION LEVEL:	LEVEL 2 PER CHAPTER 5 - 2015 IBC - 107.2.1
AREA OF WORK OCCUPANCY:	B - MEDICAL CLINIC, OUT PATIENT
	PER TABLE 1004.1.2 MAXIMUM FLOOR AREA PER OCCUPANT BUSINESS: MEDICAL CLINIC, OUT PATIENT = 100 SF (GROSS) / OCCUPANT SEE TABLE FOR ACTUAL OCCUPANCY
AREA OF WORK EXITING:	PER TABLE 1006.2.1: MINIMUM (1) EXITS REQUIRED, (2) PROVIDED
MAXIMUM TRAVEL DISTANCE:	B OCCUPANCY LESS THAN 30 = 100 FEET

PLUMBING FIXTURE COUNT PER TABLE 2902.1:
B OCCUPANCY (MEDICAL CLINIC, OUT PATIENT)
13 OCCUPANTS (7 MALE/7 FEMALE)
(1) GENDER NUETRAL RESTROOM WITH:
(1) WATER CLOSET AND (1) LAVATORY

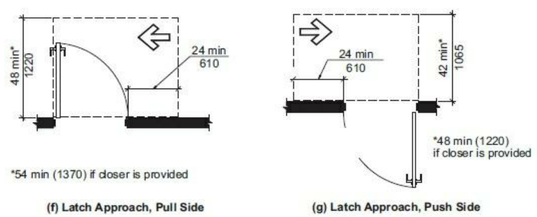
B OCCUPANCY TABLE: MEDICAL CLINIC, OUTPATIENT

NUMBER	NAME	AREA	OCCUPANTS
514	CLINIC	242 SF	3
514B	EXAM	83 SF	1
514C	OFFICE	85 SF	1
514D	TELE CON	37 SF	1
514E	CLEAN STORAGE	36 SF	1
514F	TELE CON	42 SF	1
514G	OBSERVATION	85 SF	1
514H	OFFICE	72 SF	1
514J	RESTROOM	54 SF	1
514K	LAB	34 SF	1
514L	CUST	19 SF	1
TOTALS		789 SF	13

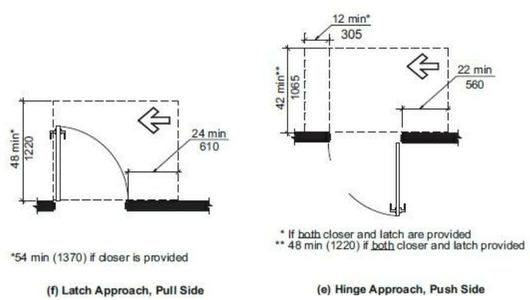




AT DOORS: 514.1, 514.2, 514A

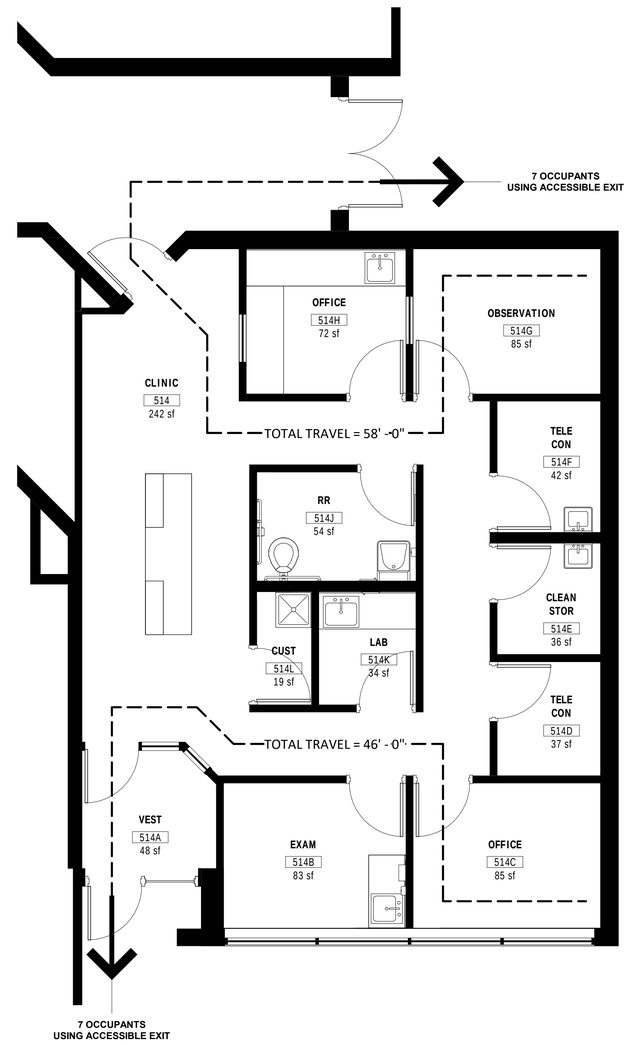


AT DOORS: 514B, 514D, 514E, 514F, 514H, 514J, 514K



AT DOORS: 514C, 514G

2 ACCESSIBILITY PLAN AND DOOR CLEARANCES
1/4" = 1'-0"



1 EXITING PLAN
1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
ACCESSIBILITY AND EXITING
PLAN AND CODE INFORMATION

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ETHE PROPERTY OF KCG, LLC AND CANNOT BE USED OR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG, LLC
RIGHT OF DOCUMENTS

ISSUE FOR BIDDING

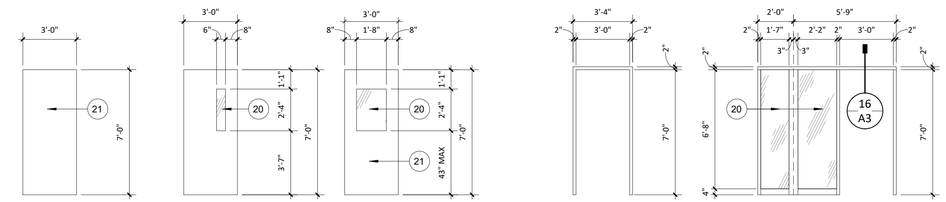
NO.	BY	DESCRIPTION	DATE

REVISIONS

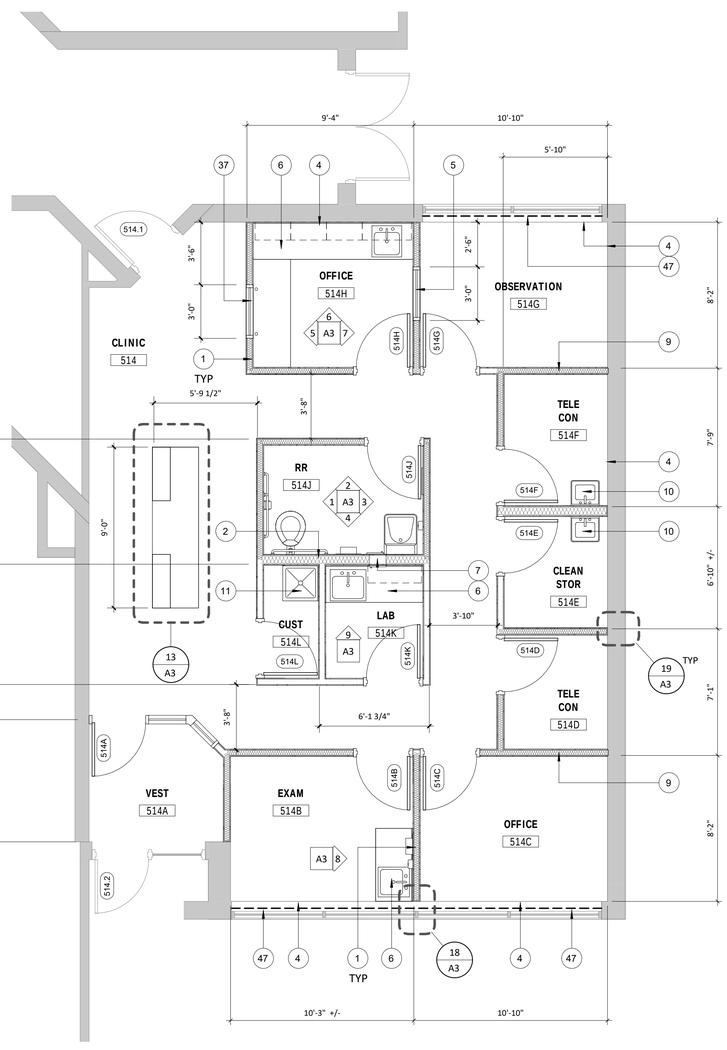
DRAWN: DAM
CHECKED: KCG
DATE: 07.09.21
SHEET NO. A1

ROOM FINISH SCHEDULE								
			WALL				CEILING	
NAME	NUMBER	FLOOR	WEST	NORTH	EAST	SOUTH	FINISH	HEIGHT
CLINIC	514	LVT	CMU PT	CMU PT	GYP PT	GYP PT	VINLY ACP	9' - 0"
VEST	514A	LVT	CMU PT	GPY PT	GYP PT	-	GYP PT	9' - 0"
EXAM	514B	LVT	CMU/GPY PT	GPY PT	GYP PT	CMU PT	VINLY ACP	9' - 0"
OFFICE	514C	LVT	GPY PT	GPY PT	CMU PT	CMU PT	VINLY ACP	9' - 0"
TELE CON	514D	LVT	GPY PT	GPY PT	CMU PT	GYP PT	VINLY ACP	9' - 0"
CLEAN STOR	514E	LVT	GPY PT	GPY PT	CMU PT	GYP PT	VINLY ACP	9' - 0"
TELE CON	514F	LVT	GPY PT	GPY PT	CMU PT	GYP PT	VINLY ACP	9' - 0"
OBSERVATION	514G	LVT	GPY PT	CMU PT	CMU PT	GYP PT	VINLY ACP	9' - 0"
OFFICE	514H	LVT	GPY PT	CMU PT	GYP PT	GYP PT	VINLY ACP	9' - 0"
RR	514J	EPOXY	FRP/GYP PT	FRP/GYP	FRP/GYP	FRP/GYP	GYP PT	9' - 0"
LAB	514K	LVT	GPY PT	GPY PT	GYP PT	GYP PT	VINLY ACP	9' - 0"
CUST	514L	LVT	GPY PT	GPY PT	GYP PT	GYP PT	GYP PT	9' - 0"

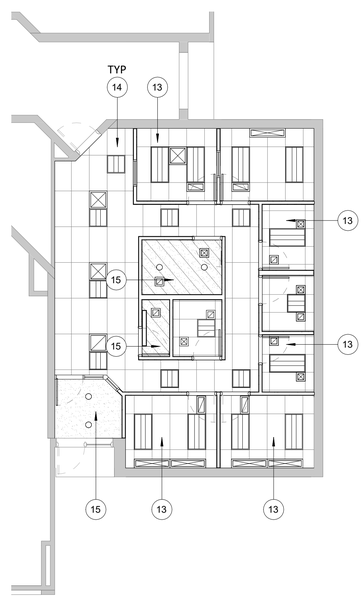
DOOR SCHEDULE									
			DOOR			FRAME			
MARK	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	HDW	NOTES
514.1	3'-0"	7'-0"	EXIST	HM	PT	HM	PT	5	CARD ACCESS
514.2	3'-0"	7'-0"	EXIST	HM	PT	HM	PT	6	CARD ACCESS
514A	3'-0"	7'-0"	2	WD	ST	HM	PT	4	PUSH-PULL
514B	3'-0"	7'-0"	1	WD	ST	HM	PT	1	OFFICE
514C	3'-0"	7'-0"	1	WD	ST	HM	PT	1	OFFICE
514D	3'-0"	7'-0"	2	WD	ST	HM	PT	1	OFFICE
514E	3'-0"	7'-0"	2	WD	ST	HM	PT	1	STORAGE
514F	3'-0"	7'-0"	2	WD	ST	HM	PT	1	OFFICE
514G	3'-0"	7'-0"	3	WD	ST	HM	PT	1	OFFICE
514H	3'-0"	7'-0"	3	WD	ST	HM	PT	1	OFFICE
514J	3'-0"	7'-0"	1	WD	ST	HM	PT	2	PRIVACY
514K	3'-0"	7'-0"	2	WD	ST	HM	PT	1	OFFICE
514L	3'-0"	7'-0"	1	WD	ST	HM	PT	3	STORAGE



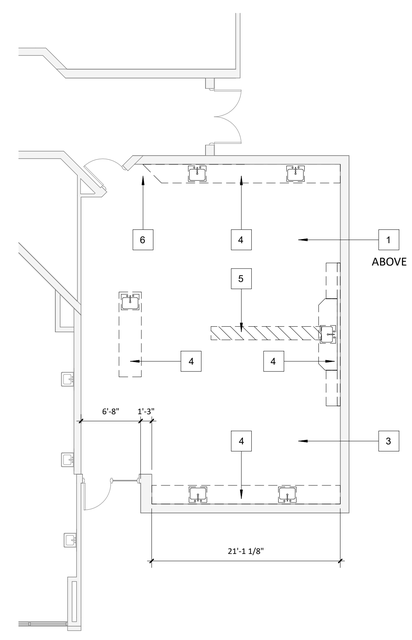
4 DOOR AND FRAME TYPES AND SCHDULE
1/4" = 1'-0"



3 AREA OF WORK - NEW CONSTRUCTION
1/4" = 1'-0"



2 REFLECTED CEILING PLAN
1/8" = 1'-0"



1 AREA OF WORK - DEMOLITION
1/8" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS AND SHALL INFORM ARCHITECT AND OWNER OF ANT MAJOR DISCREPANCIES
B. ALL GLAZING SHALL MEET CLASS II SAFETY STANDARDS
C. MECHANICAL AND ELECTRICAL ITEMS SHOWN FOR REFERENCE ONLY - SEE MEP DRAWINGS
D. ALL CABINETS DOORS AND DRAWERS SHALL RECEIVE LOCKS - TIMBERLINE COMPX CAM LOCKS OR EQUAL

DEMOLITION NOTES:

1. REMOVE EXISTING ACP CEILING SYSTEM
2. REMOVE EXISTING LIGHTING FIXTURES AND ALL CEILING MOUNTED ITEMS IN THIS AREA
3. REMOVE EXISTING FLOORING
4. REMOVE EXISTING CASEWORK, COUNTERTOPS AND PLUMBING FIXTURES - TYPICAL
5. SAWCUT PORTION OF EXISTING CONCRETE FLOOR FOR INSTALLATION OF NEW PLUMBING - SEE MEP DRAWINGS FOR EXTENTS
6. REMOVE EXISTING EYE WASH STATION - SALVAGE AND RETURN TO OWNER

NEW KEY NOTES:

1. TYPICAL: NEW WALLS TO BE 3-5/8" STEEL STUD WITH 5/8" GYP. BD. AND RUBBER BASE BOTH SIDES, FRAME TO 6" ABOVE NEW CEILING - PROVIDE SOUND BATT INSULATION WHERE SHOWN
2. NEW 6" STEEL STUD PLUMBING WALL WITH SOUND BATT INSULATION AND 5/8" GYP. BD. AND RUBBER BASE BOTH SIDES, FRAME TO 6" ABOVE NEW CEILING - PROVIDE SOUND BATT INSULATION WHERE SHOWN
3. GYP. BD. BULKHEAD AT HM FRAME 514A - BRACE TO STRUCTURE ABOVE AS SHOWN - TYPICAL
4. PATCH AND REPAIR EXISTING WALL FROM REMOVAL OF CASEWORK - TYPICAL
5. 36" x 36" HOLLOW METAL OBSERVATION WINDOW, ALIGN WINDOW HEAD WITH ADJACENT DOOR
6. COUNTERTOP AND CASEWORK - SEE ELEVATION
7. PASS-THRU - SEE SPECIFICATIONS
8. GYP. BD. CEILING AT VESTIBULE - SEE CEILING PLAN
9. PROVIDE ADDITIONAL BLOCKING THIS WALL FOR OWNER FURNISHED WALL HUNG LED TELEVISION
10. WALL MOUNTED HAND SINK - SEE PLUMBING DRAWINGS
11. JANITOR SINK - SEE PLUMBING DRAWINGS
12. 12" DEEP SHELVING
13. PROVIDE ACOUSTICAL BALL INSULATON AT CEILING FULL COVERAGE
14. VINYL FACED ACP CEILING TILES AT 9'-0" AFF - TYPICAL
15. GYP. BD. CEILING AT 9'-0" AFF - TYPICAL
16. CENTER NEW GYP. BD. WALL ON EXISTING WINDOW SPACING ABOVE - COORDINATE IN FIELD
17. PROVIDE FRP PANELS TO 48" ABOVE
18. PROVIDE SEALANT BEAD, FULL PERIMETER, BOTH SIDES, TYPICAL
19. PROVIDE (2) 20 GA. METAL STUDS AT DOOR JAMB, TYPICAL
20. 1/4" LAMINATED SAFETY GLAZING - GLAZING SHALL MEET CLASS II SAFETY STANDARDS
21. INTERIOR DOORS: 3'-0" x 7'-0" FLUSH OR HALF-LIGHT WOOD DOOR (PLAIN SAWN RED OAK) IN HOLLOW METAL FRAME - STAIN AND FINISH DOOR TO MATCH EXISTING, DOOR PREP, HARDWARE AND HARDWARE INSTALLATION BY GENERAL CONTRACTOR
22. PROVIDE BREAK METAL END CAP WITH HEMMED EDGES, PAINT TO MATCH WALL
23. EXISTING METAL WINDOW FRAME, SEE PLAN, CENTER NEW WALL AND PARTITION CLOSER AS SHOWN
24. FLUSH OUT METAL WINDOW FRAME TO BREAK METAL END CAP WITH WOOD CLOSER, PAINT TO MATCH END CAP
25. CONTRACTOR TO INSURE ADA KNEE SPACE REQUIREMENT IS MET
26. P-LAM FACED SINK APRON
27. REMOVABLE P-LAM FACED SINK ACCESS PANEL TO MATCH CASEWORK
28. PROVIDE FINISH FACED BASE CABINET AT ALL EXPOSED AREAS - TYPICAL
29. PLAM COUNTERTOP WITH INTEGRAL BACKSPLASH
30. ADA COMPLIANT SINK - SEE PLUMBING DRAWINGS
31. PLAM COUNTERTOP WITH PLAM EDGING - COLOR TO BE DETERMINED
32. PLAM TOE-KICK TO MATCH CABINETS - TYPICAL
33. PLAM UPPER CABINET WITH WHITE MELAMINE FACED INTERIOR - COLOR TO BE DETERMINED - SEE ELEVATIONS FOR SIZING AND TYPES
34. MELAMINE FACED ADJUSTABLE SHELVING - TYPICAL
35. PROVIDE BLOCKING AT UPPER CABINET LOCATIONS - TYPICAL
36. PLAM BASE CABINET WITH MELAMINE FACED INTERIOR - COLOR TO BE DETERMINED - SEE ELEVATIONS FOR SIZING AND TYPES
37. NEW SLIDING GLASS WINDOW KIT WITH LOCK IN NEW 3'-0" x 3' -0" HOLLOW METAL FRAME
38. PROVIDE J-BEAD TERMINATION PIECE AND SEALANT AT GYP. BD. TO CMU OR ACP LOCATION
39. EXISTING MASONRY WALL, SHOWN FOR REFERENCE
40. PLAM COUNTERTOP - PROVIDE (2) GROMMET LOCATIONS AS SHOWN IN PLAN - COORDINATE WITH OWNER
41. 12" PLAM TRANSACTION TOP TO MATCH RECEPTION AT 3' - 6"
42. 3-5/8" STEEL STUD WALL WITH 5/8" GYP. BD. AND RUBBER BASE BOTH SIDES - SEE ELEVATIONS
43. PROVIDE 4" RUBBER BASE BOTH SIDES OF NEW GYP. BD. WALL - TYPICAL
44. ACP OR GYP. BD. CEILING AT 9'-0" - SEE CEILING PLAN
45. BRACE TOP OF WALL TO STRUCTURE ABOVE AT 48" OC - TYPICAL
46. HOLLOW METAL FRAME - SEE FRAME ELEVATIONS
47. PROVIDE NEW ROLLER SHADES - SEE SPECIFICATIONS
48. NEW CONCRETE PATCH - COORDINATE EXTENT IN FIELD
49. EXISTING 4" CONCRETE SLAB TO REMAIN, PREP FOR NEW CONCRETE PATCH
50. NEW #5 REBAR AT 24" O.C. - GREASE AND WRAP BAR ENDS IN EXISTING CONCRETE
51. EXISTING 4" POROUS FILL TO REMAIN
52. NEW 4" POROUS FILL - SEE SPECIFICATIONS
53. UNDISTURBED EARTH TO REMAIN
54. NEW FILL - SEE SPECIFICATIONS

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3849
tomkalert@gmail.com

SHEET CONTENTS
DEMO AND NEW FLOOR PLANS, CEILING PLAN, DOOR AND ROOM FINISH SCHEDULES

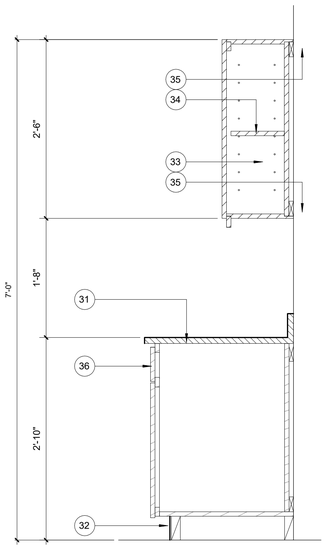
LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION BY KCG | LLC.

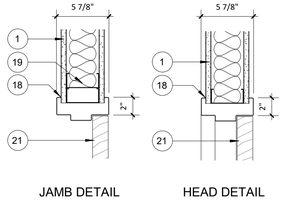
ISSUE FOR BIDDING

REVISIONS			
NO.	BY	DESCRIPTION	DATE

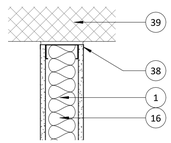
DRAWN BY: DAM
CHECKED: KCG
DATE: 07.09.21
SHEET NO. A2



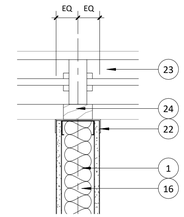
14 TYPICAL CABINET DETAIL
1" = 1'-0"



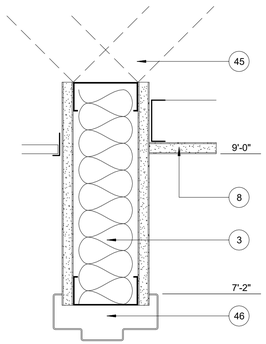
20 TYPICAL DOOR DETAILS
1 1/2" = 1'-0"



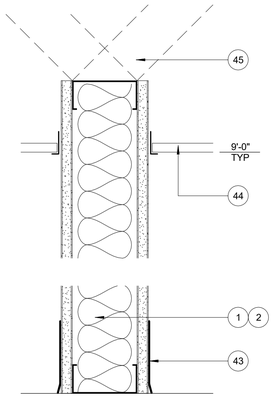
19 WALL TO CMU
1 1/2" = 1'-0"



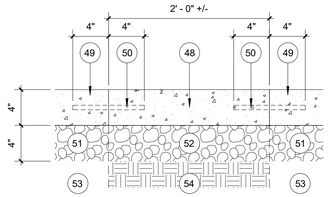
18 WALL TO MULL
1 1/2" = 1'-0"



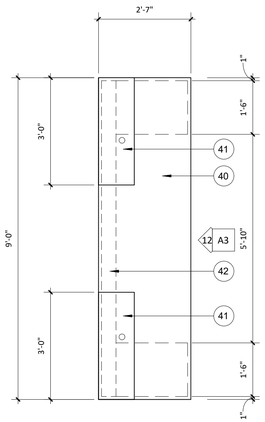
16 FRAME 514A HEAD
3" = 1'-0"



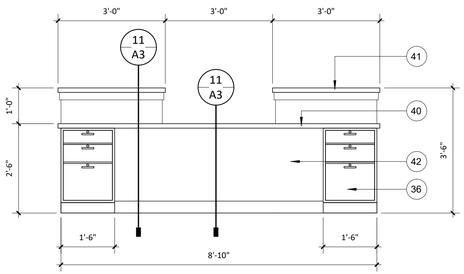
15 TYPICAL WALL DETAIL
3" = 1'-0"



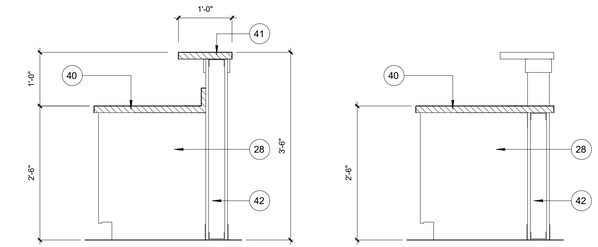
17 CONC INFILL DETAIL
1 1/2" = 1'-0"



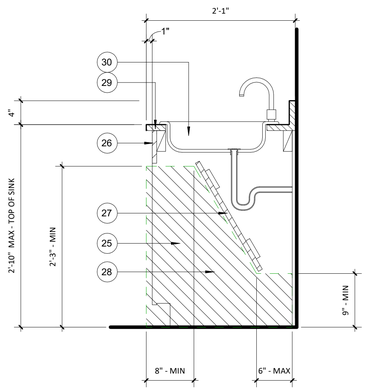
13 RECEPTION DESK
1/2" = 1'-0"



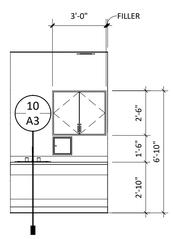
12 RECEPTION DESK - ELEVATION
1/2" = 1'-0"



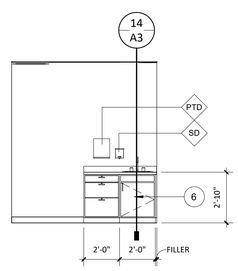
11 RECEPTION DESK - SECTIONS
3/4" = 1'-0"



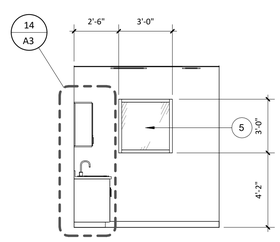
10 ADA SINK DETAIL
1" = 1'-0"



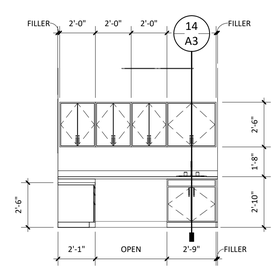
9 LAB 514K
1/4" = 1'-0"



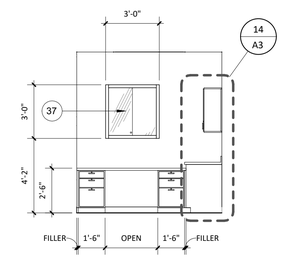
8 EXAN 514B
1/4" = 1'-0"



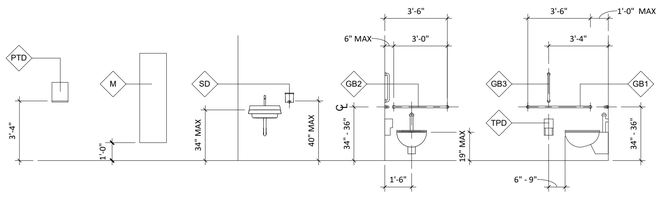
7 OFFICE 514H - EAST
1/4" = 1'-0"



6 OFFICE 514H - NORTH
1/4" = 1'-0"



5 OFFICE 514H - WEST
1/4" = 1'-0"



PAPER TOWEL DISPENSOR:
PTD: OFCI

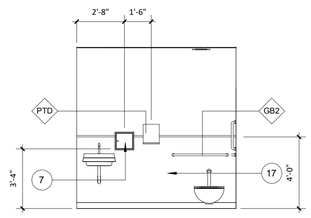
SOAP DISPENSOR:
SD: OFCI

MIRROR:
M: 18 x 60 CFCI

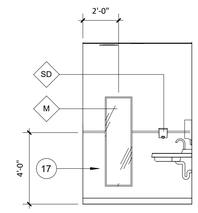
TOILET PAPER DISPENSOR:
TPD: OFCI

GRAB BAR:
GB1: 42" CFCI
GB2: 36" CFCI
GB3: 18" CFCI

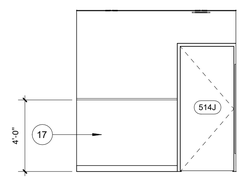
ADA MOUNTING LEGEND
1/4" = 1'-0"



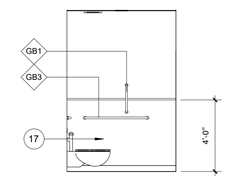
4 RR 514J - SOUTH
1/4" = 1'-0"



3 RR 514J - EAST
1/4" = 1'-0"



2 RR 514J - NORTH
1/4" = 1'-0"



1 RR 514J - WEST
1/4" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS AND SHALL INFORM ARCHITECT AND OWNER OF ANT MAJOR DISCREPANCIES
B. ALL GLAZING SHALL MEET CLASS II SAFETY STANDARDS
C. MECHANICAL AND ELECTRICAL ITEMS SHOWN FOR REFERENCE ONLY - SEE MEP DRAWINGS
D. ALL CABINETS DOORS AND DRAWERS SHALL RECEIVE LOCKS - TIMBERLINE COMPX CAM LOCKS OR EQUAL

DEMOLITION NOTES:

1. REMOVE EXISTING ACP CEILING SYSTEM
2. REMOVE EXISTING LIGHTING FIXTURES AND ALL CEILING MOUNTED ITEMS IN THIS AREA
3. REMOVE EXISTING FLOORING
4. REMOVE EXISTING CASEWORK, COUNTERTOPS AND PLUMBING FIXTURES - TYPICAL
5. SAWCUT PORTION OF EXISTING CONCRETE FLOOR FOR INSTALLATION OF NEW PLUMBING - SEE MEP DRAWINGS FOR EXTENTS
6. REMOVE EXISTING EYE WASH STATION - SALVAGE AND RETURN TO OWNER

NEW KEY NOTES:

1. TYPICAL: NEW WALLS TO BE 3-5/8" STEEL STUD WITH 5/8" GYP. BD. AND RUBBER BASE BOTH SIDES, FRAME TO 6" ABOVE NEW CEILING - PROVIDE SOUND BATT INSULATION WHERE SHOWN
2. NEW 6" STEEL STUD PLUMBING WALL WITH SOUND BATT INSULATION AND 5/8" GYP. BD. AND RUBBER BASE BOTH SIDES, FRAME TO 6" ABOVE NEW CEILING - PROVIDE SOUND BATT INSULATION WHERE SHOWN
3. GYP. BD. BULKHEAD AT HM FRAME 514A - BRACE TO STRUCTURE ABOVE AS SHOWN - TYPICAL
4. PATCH AND REPAIR EXISTING WALL FROM REMOVAL OF CASEWORK - TYPICAL
5. 36" x 36" HOLLOW METAL OBSERVATION WINDOW, ALIGN WINDOW HEAD WITH ADJACENT DOOR
6. COUNTERTOP AND CASEWORK - SEE ELEVATION
7. PASS-THRU - SEE SPECIFICATIONS
8. GYP. BD. CEILING AT VESTIBULE - SEE CEILING PLAN
9. PROVIDE ADDITIONAL BLOCKING THIS WALL FOR OWNER FURNISHED WALL HUNG LED TELEVISION
10. WALL MOUNTED HAND SINK - SEE PLUMBING DRAWINGS
11. JANITOR SINK - SEE PLUMBING DRAWINGS
12. 12" DEEP SHELVING
13. PROVIDE ACOUSTICAL BALL INSULATON AT CEILING FULL COVERAGE
14. VINYL FACED ACP CEILING TILES AT 9'-0" AFF - TYPICAL
15. GYP. BD. CEILING AT 9'-0" AFF - TYPICAL
16. CENTER NEW GYP. BD. WALL ON EXISTING WINDOW SPACING ABOVE - COORDINATE IN FIELD
17. PROVIDE FRP PANELS TO 48" ABOVE
18. PROVIDE SEALANT BEAD, FULL PERIMETER, BOTH SIDES, TYPICAL
19. PROVIDE (2) 20 GA. METAL STUDS AT DOOR JAMB, TYPICAL
20. 1/4" LAMINATED SAFETY GLAZING - GLAZING SHALL MEET CLASS II SAFETY STANDARDS
21. INTERIOR DOORS: 3'-0" x 7'-0" FLUSH OR HALF-LIGHT WOOD DOOR (PLAIN SAWN RED OAK) IN HOLLOW METAL FRAME - STAIN AND FINISH DOOR TO MATCH EXISTING, DOOR PREP, HARDWARE AND HARDWARE INSTALLATION BY GENERAL CONTRACTOR
22. PROVIDE BREAK METAL END CAP WITH HEMMED EDGES, PAINT TO MATCH WALL
23. EXISTING METAL WINDOW FRAME, SEE PLAN, CENTER NEW WALL AND PARTITION CLOSER AS SHOWN
24. FLUSH OUT METAL WINDOW FRAME TO BREAK METAL END CAP WITH WOOD CLOSER, PAINT TO MATCH END CAP
25. CONTRACTOR TO INSURE ADA KNEE SPACE REQUIREMENT IS MET
26. P-LAM FACED SINK APRON
27. REMOVABLE P-LAM FACED SINK ACCESS PANEL TO MATCH CASEWORK
28. PROVIDE FINISH FACED BASE CABINET AT ALL EXPOSED AREAS - TYPICAL
29. PLAM COUNTERTOP WITH INTEGRAL BACKSPLASH
30. ADA COMPLIANT SINK - SEE PLUMBING DRAWINGS
31. PLAM COUNTERTOP WITH PLAM EDGING - COLOR TO BE DETERMINED
32. PLAM TOE-KICK TO MATCH CABINETS - TYPICAL
33. PLAM UPPER CABINET WITH WHITE MELAMINE FACED INTERIOR - COLOR TO BE DETERMINED - SEE ELEVATIONS FOR SIZING AND TYPES
34. MELAMINE FACED ADJUSTABLE SHELVING - TYPICAL
35. PROVIDE BLOCKING AT UPPER CABINET LOCATIONS - TYPICAL
36. PLAM BASE CABINET WITH MELAMINE FACED INTERIOR - COLOR TO BE DETERMINED - SEE ELEVATIONS FOR SIZING AND TYPES
37. NEW SLIDING GLASS WINDOW KIT WITH LOCK IN NEW 3'-0" x 3' -0" HOLLOW METAL FRAME
38. PROVIDE J-BEAD TERMINATION PIECE AND SEALANT AT GYP. BD. TO CMU OR ACP LOCATION
39. EXISTING MASONRY WALL, SHOWN FOR REFERENCE
40. PLAM COUNTERTOP - PROVIDE (2) GROMMET LOCATIONS AS SHOWN IN PLAN - COORDINATE WITH OWNER
41. 12" PLAM TRANSACTION TOP TO MATCH RECEPTION AT 3' - 6"
42. 3-5/8" STEEL STUD WALL WITH 5/8" GYP. BD. AND RUBBER BASE BOTH SIDES - SEE ELEVATIONS
43. PROVIDE 4" RUBBER BASE BOTH SIDES OF NEW GYP. BD. WALL - TYPICAL
44. ACP OR GYP. BD. CEILING AT 9'-0" - SEE CEILING PLAN
45. BRACE TOP OF WALL TO STRUCTURE ABOVE AT 48" OC - TYPICAL
46. HOLLOW METAL FRAME - SEE FRAME ELEVATIONS
47. PROVIDE NEW ROLLER SHADES - SEE SPECIFICATIONS
48. NEW CONCRETE PATCH - COORDINATE EXTENT IN FIELD
49. EXISTING 4" CONCRETE SLAB TO REMAIN, PREP FOR NEW CONCRETE PATCH
50. NEW #5 REBAR AT 24" O.C. - GREASE AND WRAP BAR ENDS IN EXISTING CONCRETE
51. EXISTING 4" POROUS FILL TO REMAIN
52. NEW 4" POROUS FILL - SEE SPECIFICATIONS
53. UNDISTURBED EARTH TO REMAIN
54. NEW FILL - SEE SPECIFICATIONS

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 412 3349
tomkalert@gmail.com

SHEET CONTENTS
INTERIOR ELEVATIONS AND DETAILS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

REISSUE OF DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

ISSUE FOR BIDDING

DRAWN: DAM
CHECKED: KCG
DATE: 07.09.21
SHEET NO. A3

VIEW KEY

NAME ← LEVEL NAME; 10' - 0" ← HEIGHT ABOVE PROJECT 0' - 0"	(1) ← INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

NORTH — INDICATES DIRECTION OF TRUE NORTH
1 — PLAN OR DETAIL NUMBER
VIEW NAME — PLAN OR DETAIL NAME
1/8" = 1'-0" — PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 — DETAIL REFERRED TO BY SECTION CUT
M101 — SHEET DETAIL IS LOCATED ON

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 / 2 / 3 / 4 — DETAIL REFERRED TO BY ELEVATION
T101 — SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
- NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CD-E	CEILING DIFFUSER - EXISTING
CFSD	CONTROL/FIRE/SMOKE DAMPER
CI	CAST IRON
CO	CLEANOUT
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
E	EXISTING
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EE	EMERGENCY EYEWASH
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
ESD	EXISTING SMOKE DAMPER
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MA	MIXED AIR
MB	MOP BASIN
MV	MIXING VALVE
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NT	NEUTRALIZATION TANK
OA	OUTSIDE AIR
OS	OIL SEPARATOR
PS	PRESSURE SWITCH
RA	RETURN AIR
RD	ROOF DRAIN
SA	SUPPLY AIR
SD	SMOKE DAMPER
SH	SHOWER
SK	SINK
TD	TRANSFER DUCT
TYP	TYPICAL
UB	UTILITY BOX
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
GRV	GAS VENT
GSAN	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
GV	GREASE VENT
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
SAN	SANITARY DRAINAGE
SV	SAFETY RELIEF VENT
V	VENT
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	DIRECTION OF FLOW IN PIPE
	NEW CONNECTION
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PRESSURE REDUCING VALVE (STEAM)
	TRIPLE DUTY VALVE (ANGLE TYPE)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
	PUMP
	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	AUTOMATIC DRAIN VALVE
	AIR PRESSURE MAINTENANCE DEVICE
	AIR SUPERVISORY SWITCH
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	INSPECTOR TEST AND DRAIN VALVE
	OS&Y GATE VALVE
	OS&Y GATE VALVE WITH MONITOR SWITCH
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	BASKET STRAINER
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
T, T-*	STEAM TRAP (REFER TO SCHEDULE)
T-*	F&T STEAM TRAP (REFER TO SCHEDULE)
T-*	INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)
	ALIGNMENT GUIDE
	PIPE ANCHOR

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	EXPANSION JOINT
M	METER
	PRESSURE TRANSDUCER WITH ALARM WIRING
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION
	EXTRA GROUP 1
	EXTRA GROUP 2
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
CD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL / NECK SIZE/CFM
H	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER
ACT	ACTUATOR
DS	DOOR SWITCH
DP	DIFFERENTIAL PRESSURE SWITCH
CS	CURRENT SWITCH
VS	VIBRATION SWITCH
FM	FLOW METER
	FAN
MTR	MOTOR
R	CONTACTOR
	NORMALL CLOSED CONTACT
	NORMALLY OPEN CONTACT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
	AIR BLENDER
	MANUAL MOTOR STARTER W/THERMAL OVERLOAD

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
FM	FLOW METER
F	FLOW SWITCH
FS	FLOW SENSOR
FS	AIR FLOW SWITCH
FM	DUCT FLOW METER
P	PRESSURE SWITCH
	MONITOR SWITCH
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	DIFFERENTIAL PRESSURE SENSOR
P	PRESSURE SENSOR (DUCT MOUNTED)
SP	STATIC SWITCH
T	THERMOSTAT
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
T	AVERAGING TEMPERATURE SENSOR
T	LOW LIMIT TEMPERATURE SWITCH
T	PROBE TEMPERATURE SENSOR
H	HUMIDISTAT SENSOR
H	HUMIDISTAT / SENSOR
H	HUMIDITY SENSOR (DUCT MOUNTED)
C	CARBON MONOXIDE SENSOR
C 2	CARBON DIOXIDE SENSOR
C	CARBON MONOXIDE SENSOR (DUCT MOUNTED)
C 2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)
	FILTER
DSD	DUCT SMOKE DETECTOR
	HEATING/ COOLING COIL

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO PLUMBING AND VENTILATION.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
13. DO NOT BLOCK EQUIPMENT SERVICE CLEARANCES.
14. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
15. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED.
10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE.

VENTILATION GENERAL NOTES:

1. THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE TAB'S INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH SHOULD BE INCREASED ONE DUCT SIZE, OR NOTED OTHERWISE.
2. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
3. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
4. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
5. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
6. CLEAN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK UPSTREAM OF ALL NEW CONNECTIONS PER SPECIFICATION SECTION 23 31 00.

MECHANICAL SHEET INDEX

M0	MECHANICAL COVERSHEET
M1.1	MECHANICAL PIPING DEMOLITION AND NEW PLANS
M3.0	MECHANICAL DETAILS
M3.1	MECHANICAL SCHEDULES
M3.2	MECHANICAL CONTROLS
M1	MECHANICAL DEMOLITION AND NEW PLANS
M2	MECHANICAL ROOF DEMOLITION AND NEW PLANS
M3	MECHANICAL DETAILS
M4	MECHANICAL COMCHECK
GRAND TOTAL: 9	

PLUMBING SHEET INDEX

P0	UNDERFLOOR PLUMBING DEMOLITION AND NEW PLANS
P2.1	PLUMBING RISERS
P3	PLUMBING SCHEDULES
P1	PLUMBING DEMOLITION AND NEW PLANS
P2	PLUMBING DETAILS
GRAND TOTAL: 5	

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL COVERSHEET

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

REUSE OF DOCUMENTS: THE IDEAS AND DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

NO.	BY	DESCRIPTION	DATE

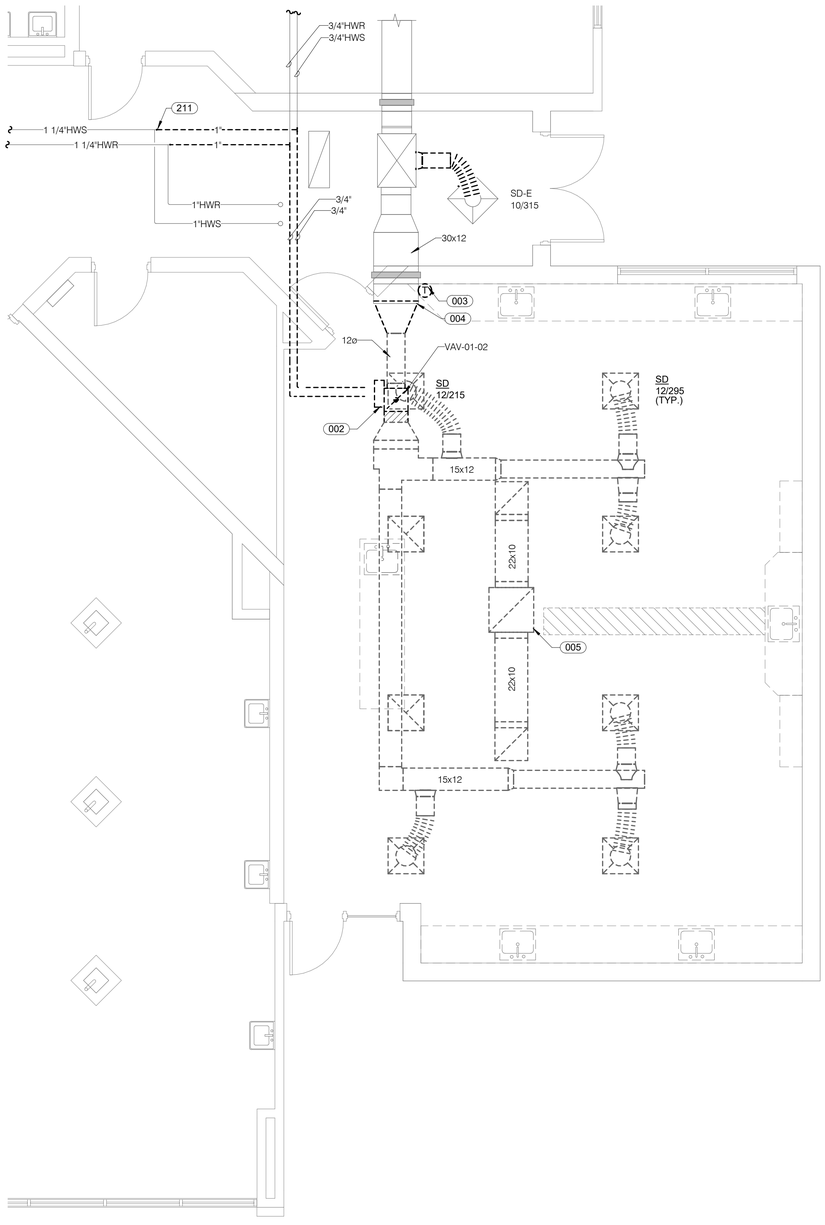
REVISIONS

100% CONSTRUCTION DOCUMENTS

DRAWN BRE
CHECKED EJS
DATE 06.25.2021
SHEET NO. M0

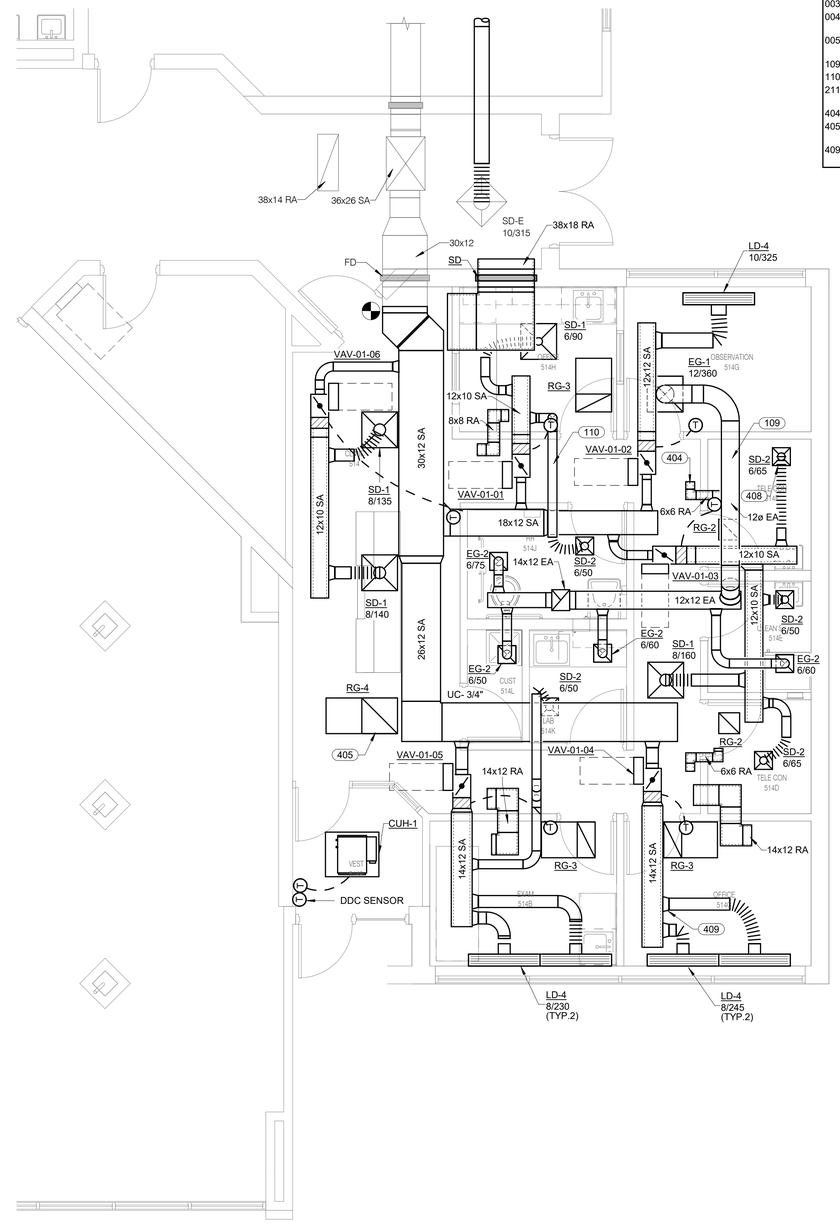
KEYNOTES

002	DEMOLISH VAV-01-02 AND USE THE SAME TAG TO NEW VAV IN NEW PLANS.
003	REMOVE EXISTING TEMPERATURE SENSOR.
004	REMOVE EXISTING SUPPLY DUCT AND VAV BOX TO THIS POINT. MAINTAIN FOR CONNECTION TO NEW.
005	REMOVE EXISTING EXHAUST DUCT, EXHAUST FAN, CURB AND ALL ASSOCIATED COMPONENTS.
109	ROUTE 12" ROUND DUCT IN THE JOIST SPACE.
110	ROUTE 6" ROUND DUCT IN THE JOIST SPACE.
211	REMOVE EXISTING HEATING WATER PIPING TO THIS POINT. MAINTAIN FOR CONNECTION TO NEW.
404	REFER TO Z TRANSFER DUCT DETAIL. TYPICAL.
405	REFER TO RETURN GRILL WITH SOUND BOOT DETAIL. TYPICAL.
409	REFER TO ROUND DUCT TAP CONNECTION DETAIL. TYPICAL.



1 MECHANICAL DEMOLITION PLAN

1/4" = 1'-0"



2 MECHANICAL NEW PLAN

1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 1 (412) 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT, WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

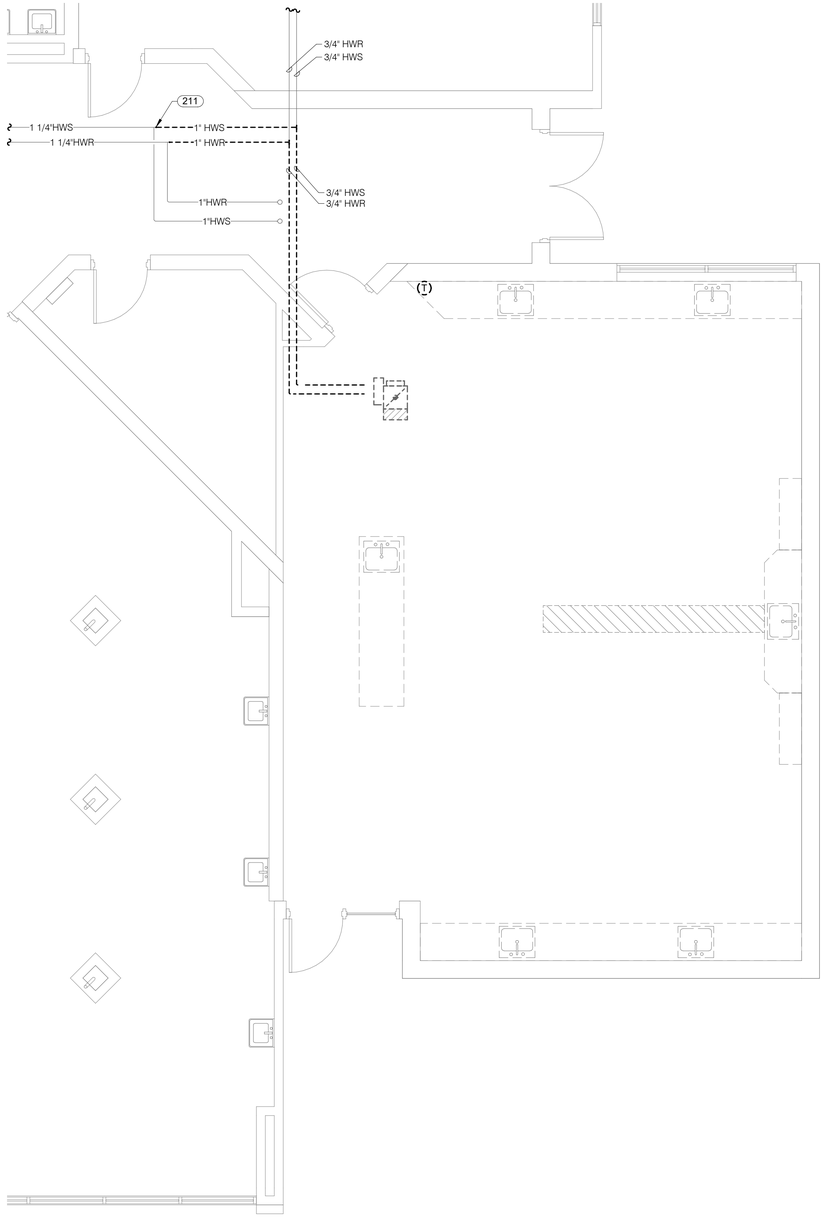
REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

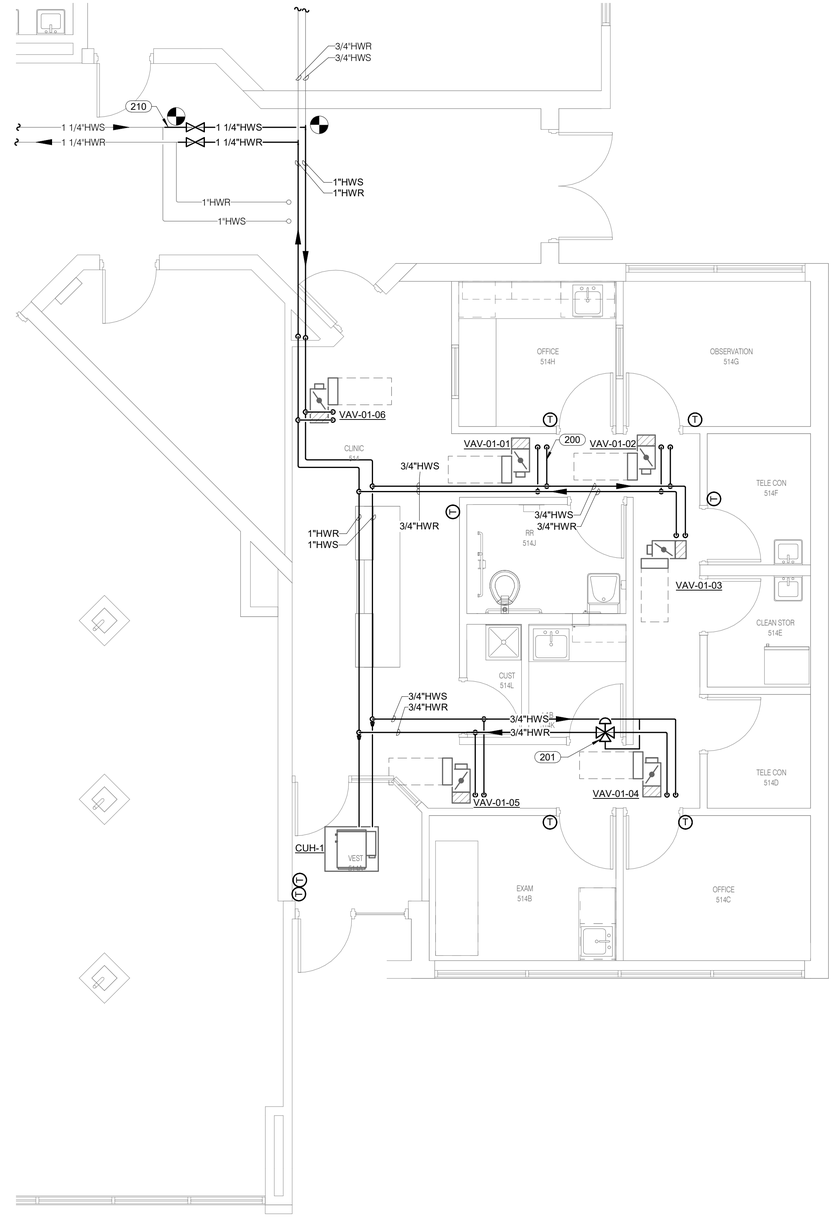
REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN	BRE
CHECKED	EJS
DATE	06.25.2021
SHEET NO.	M1



1 MECHANICAL PIPING DEMOLITION PLAN

1/4" = 1'-0"



2 MECHANICAL PIPING PLAN

1/4" = 1'-0"

KEYNOTES

200	PROVIDE EQUIPMENT PIPING CONNECTIONS PER 2-WAY COIL DETAIL. TYPICAL UNLESS OTHERWISE NOTED.
201	PROVIDE EQUIPMENT PIPING CONNECTIONS PER 3-WAY COIL DETAIL.
210	DEMOLISH 1" HWS/RPIPE AND ADD 1-1/4" HWS/R PIPE HERE TO ACCOMODATE NEW VAV'S.
211	REMOVE EXISTING HEATING WATER PIPING TO THIS POINT. MAINTAIN FOR CONNECTION TO NEW.

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 1 (412) 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL PIPING
DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEA AND DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

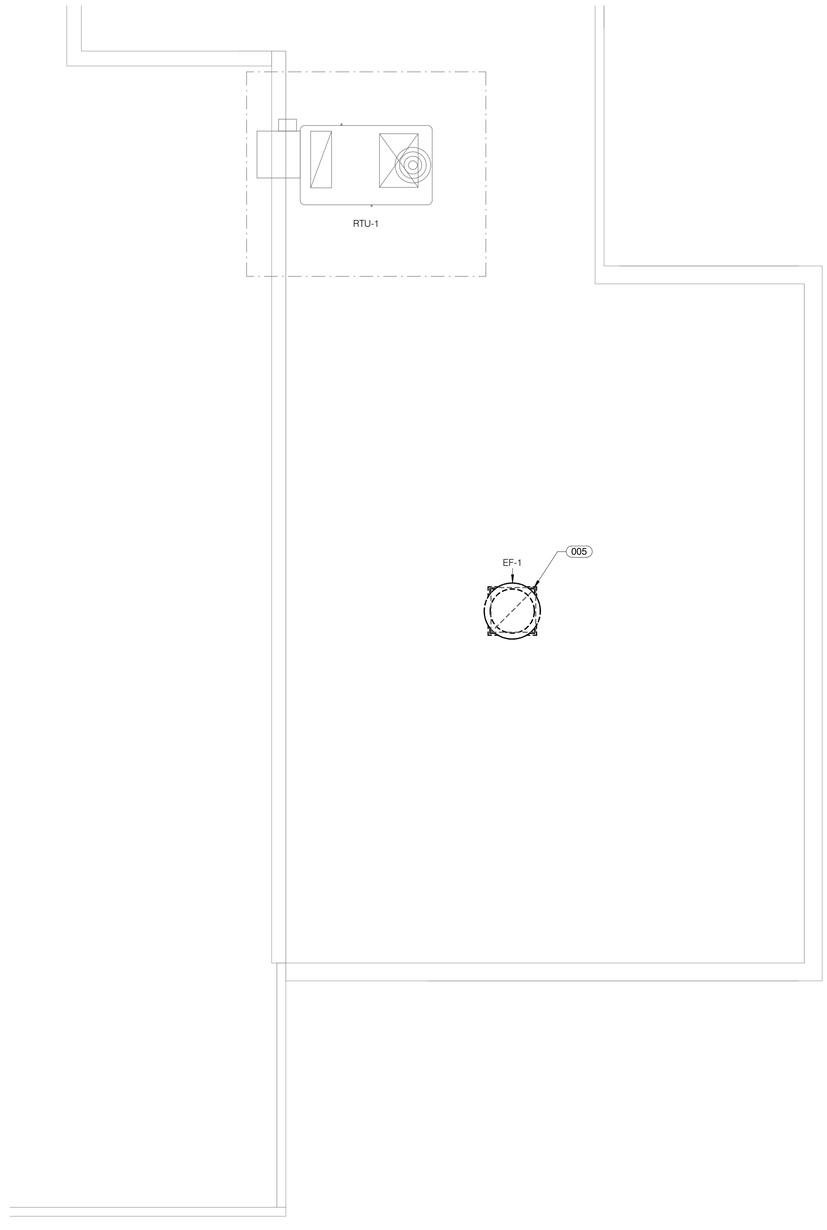
IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

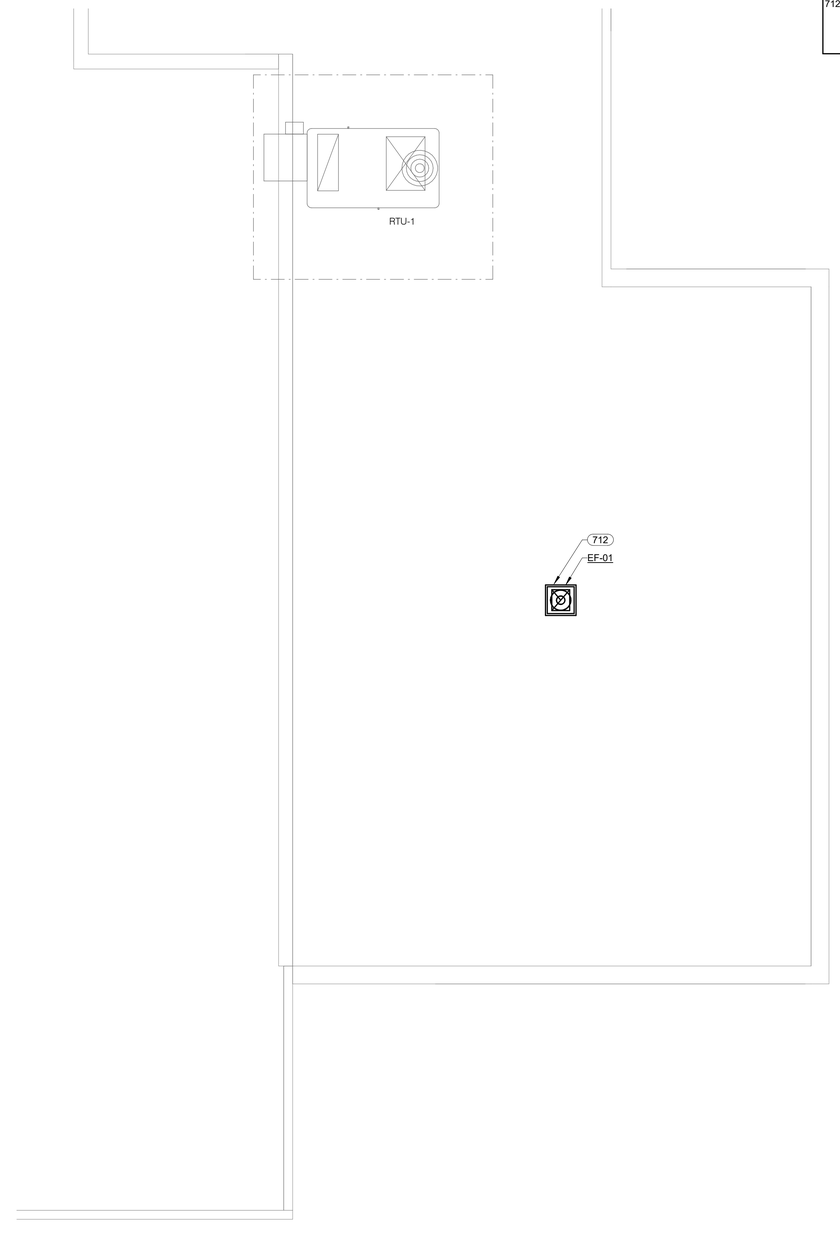
DRAWN BRE	SHEET NO. M1.1
CHECKED EJS	
DATE 06.25.2021	

KEYNOTES

005	REMOVE EXISTING EXHAUST DUCT, EXHAUST FAN, CURB AND ALL ASSOCIATED COMPONENTS.
712	EF-#, NEW EXHAUST FAN AND CURB. SEE SCHEDULE. PATCH AND SEAL ROOF OPENING AS REQUIRED. MAINTAIN 10'-0" CLEARANCE FROM ALL ROOF EDGES AND OUTSIDE AIR INTAKES. DASHED LINE REPRESENTS CLEARANCE. TYPICAL.



NORTH 1 **MECHANICAL ROOF DEMOLITION PLAN**
1/4" = 1'-0"



NORTH 2 **MECHANICAL ROOF NEW PLAN**
1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL ROOF
DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

100% CONSTRUCTION DOCUMENTS

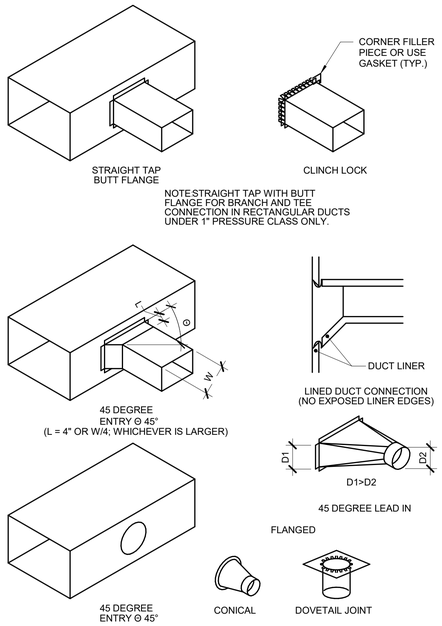
REVISIONS			
NO.	BY	DESCRIPTION	DATE

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN BRE	SHEET NO. M2
CHECKED EJS	
DATE 06.25.2021	

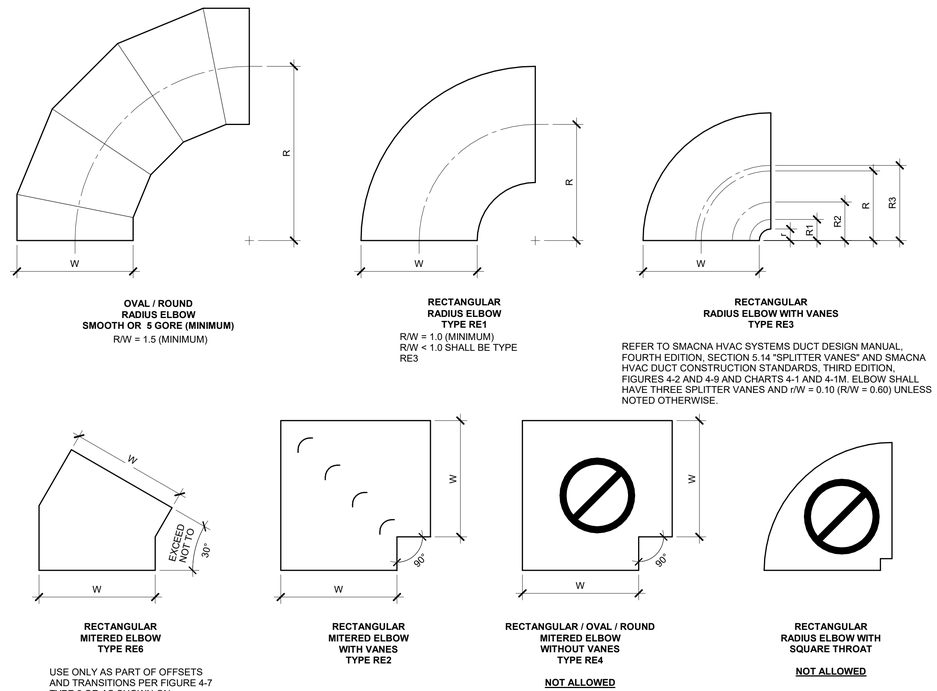


NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1 BRANCH CONNECTIONS

NO SCALE

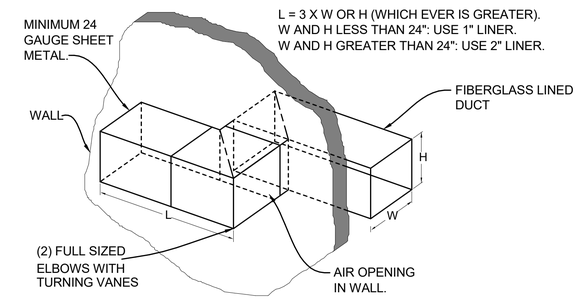


NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

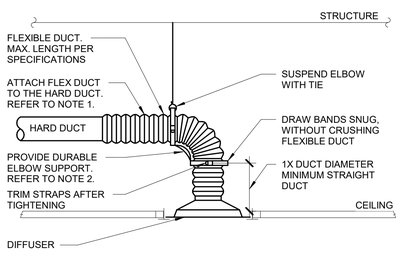
2 ELBOW CONSTRUCTION

NO SCALE



3 "Z" TRANSFER DUCT DETAIL

NO SCALE

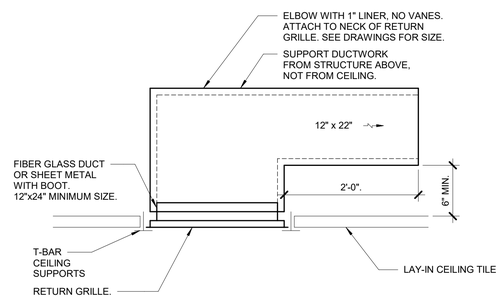


NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

4 DIFFUSER CONNECTION DETAIL

NO SCALE

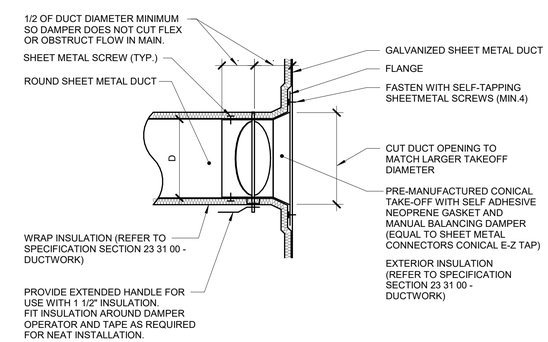


NOTES:

1. THIS DETAIL APPLIES TO ALL RG-4 AND RG-3 WITH 12x24 AND 24x24 FACE SIZE.

5 CEILING RETURN GRILLE

NO SCALE



NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF UNLINED DUCTS.
2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT LOCATED BETWEEN FANS AND TERMINAL AIR BOXES, DUCT IS NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT OVER 12" DIAMETER.
3. MANUFACTURED TAP/DAMPER COMBINATIONS WITH LESS THAN 1/2 DUCT DIAMETER SPACING BETWEEN THE MAIN DUCT AND THE DAMPER SHAFT ARE ACCEPTABLE ONLY IF THE DAMPER SHAFT IS INSTALLED PARALLEL TO THE AIR FLOW IN THE MAIN DUCT.

6 ROUND DUCT TAP CONNECTION (CONICAL/WRAPPED)

NO SCALE

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN BRE	SHEET NO. M3
CHECKED EJS	
DATE 06.25.2021	

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

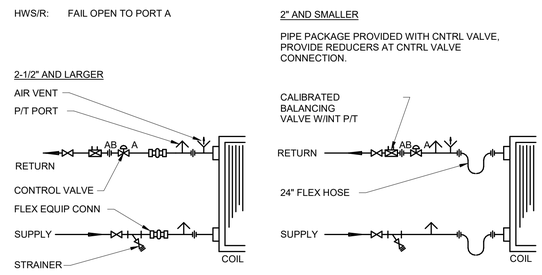
REVISIONS

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

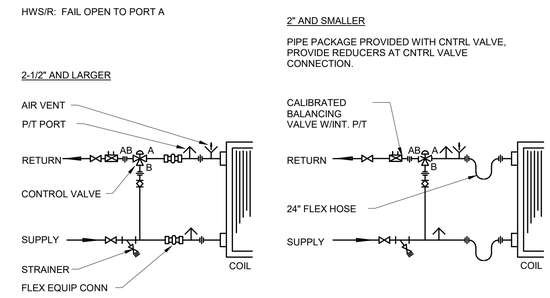
SHEET CONTENTS
MECHANICAL DETAILS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION BY KCG | LLC.
RULES OF DOCUMENTS



1 **2-WAY COIL / EQUIPMENT ASSEMBLY DETAIL**
NO SCALE



2 **3-WAY COIL / EQUIPMENT ASSEMBLY DETAIL**
NO SCALE

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL DETAILS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

REUSE OF DOCUMENTS: THE IDEAS AND DESIGN INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF KCG | LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN: BRE
CHECKED: EJS
DATE: 06.25.2021
SHEET NO.: M3.0

CABINET HEATER SCHEDULE - HOT WATER

NOTES:
1.COORDINATE COLOR SELECTION WITH ARCHITECT.
2. UNIT IS DERATED FOR EWT AND TEMPERATURE DROP PER MANUFACUTRER'S INSTRUCTIONS
3. 30%PROPYLENE GLYCOL.

TAG NAME	AREA SERVED	CONFIGURATION	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	PIPE CONNECTION SIZE	MAX W.P.D. FT. HD	CONTROL TYPE	ELECTRICAL: FAN HP	ELECTRICAL: RPM	ELECTRICAL: VOLTAGE	ELECTRICAL: PHASES	ELECTRICAL: DISCONNECT BY (NOTE A)	ELECTRICAL: DISCONNECT TYPE (NOTE B)	ELECTRICAL: CONTROLLER/ STARTER BY (NOTE A)	MAX. DIMENSIONS: LENGTH	MAX. DIMENSIONS: WIDTH	MAX. DIMENSIONS: HEIGHT	WEIGHT LBS	MANUFACTURER	MODEL	NOTES
CUH-1	VEST 514A	HORIZONTAL RECESSED	220	28	1.9	150	120	3/4"	1.30	TSTAT	0.07	1390	120	1	MFG	NF	MFR	62.2"	10"	24"	155	ZEHNDER RITTLING	RFRC-420-06	NOTES 1, 2, & 3

FAN SCHEDULE

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION - 23 05 13.

TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	ELECTRICAL (NOTE 1): BHP	MHP	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)	CONTROLLER/ STARTER TYPE (NOTE C)	WEIGHT	MANUFACTURER	MODEL	NOTES
EF-01	CLINIC	605	0.75	1336	DIRECT	10.1	0.15	0.25	120	1	MFG	NF	MFG	ECM	50	GREENHECK	G-140HP-VG	NOTES 1

AIR TERMINAL SCHEDULE

NOTES:
1. RETURN WITH BOOT.
2. FRONT BLADES VERTICAL UNLESS NOTED OTHERWISE.
3. PERFORATED SUPPLY.
4. DUCTED RETURN.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
EG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	PRICE	PDDR	NOTE 4
EG-2	12x12	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	PRICE	PDDR	NOTE 4
RG-2	INLET +2	PERFORATED FACE	1 1/4"	STEEL	WHITE	NO	PRICE	PDDR	NOTE 2
RG-3	12x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	PRICE	RAC	NOTE 1
RG-4	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	PRICE	RAC	NOTE 1
SD-1	24x24	LOUVER FACE	LAY-IN	STEEL	WHITE	NO	PRICE	SMD/AMD	NOTE 3
SD-2	12x12	LOUVER FACE	LAY-IN	STEEL	WHITE	NO	PRICE	SMD/AMD	NOTE 3

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT

NOTES:
1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3.HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT °F, EWT °F, AND GPM VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB.
4.HEATING COIL SELECTION SHALL BE BASED ON A FIXED GPM AND EWT. LAT ABOVE 90 DEG. F. AND LWT CAN VARY.
5. 30% PROPYLENE GLYCOL.

TAG NAME	AREA SERVED	CFM: COOLING MAX.	CFM: HEATING MAX.	CFM: MIN.	HEATING COIL (NOTES 3,4 & 5): EAT °F	LAT °F	EWT °F	LWT °F	MAX. GPM	PIPE CONNECTION SIZE	MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE	SENSOR TYPE	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
VAV-01-01	OFFICE- 514H	140	135	50	55.0	90.0	150	120	0.5	3/4"	6"	DDC	TSTAT	PRICE	SDV	NOTES 1, 2, 3, 4
VAV-01-02	COTS- 514G	205	325	100	55.0	90.0	150	120	1.0	3/4"	6"	DDC	TSTAT	PRICE	SDV	NOTES 1, 2, 3, 4
VAV-01-03	TELE CONF- 514F	310	340	100	55.0	90.0	150	120	1.0	3/4"	6"	DDC	TSTAT	PRICE	SDV	NOTES 1, 2, 3, 4
VAV-01-04	OFFICE- 514C	490	270	200	55.0	90.0	150	120	1.0	3/4"	8"	DDC	TSTAT	PRICE	SDV	NOTES 1, 2, 3, 4
VAV-01-05	EXAM- 514B	510	250	200	55.0	90.0	150	120	1.0	3/4"	8"	DDC	TSTAT	PRICE	SDV	NOTES 1, 2, 3, 4
VAV-01-06	CLINIC- 514	275	180	100	55.0	90.0	150	120	0.5	3/4"	6"	DDC	TSTAT	PRICE	SDV	NOTES 1, 2, 3, 4

DUCTWORK INSULATION (WRAP & LINER) SCHEDULE

SYSTEM	LOCATION	SERVICE NOTE 1	EXPOSED: RECTANGULAR	EXPOSED: ROUND / OVAL	CONCEALED: RECTANGULAR	CONCEALED: ROUND / OVAL	MINIMUM R-VALUE	SPECIFIC NOTES
SUPPLY AIR	INDOOR	MAIN	1-1/2" LINER	1-1/2" LINER	1-1/2" LINER	1-1/2" LINER	R-6	
		MAIN TO TERMINAL	1-1/2" LINER	---	1-1/2" LINER	2" WRAP	R-6	
		TERMINAL TO GRD	1-1/2" LINER	---	1-1/2" LINER	2" WRAP	R-6	
RETURN AIR	INDOOR	MAIN	1" LINER	1" LINER	1" LINER	1" LINER	R-4	
		BRANCH	1" LINER	---	1" LINER	1-1/2" WRAP	R-4	
EXHAUST AIR	INDOOR	MAIN	---	---	---	---	---	2, 5
		BRANCH	---	---	---	---	---	2, 5

GENERAL NOTES:
1) MINIMUM R-VALUE BASED ON 2015 IECC REQUIREMENTS.
2) DUCT SIZES SHOWN ARE OUTSIDE SHEET METAL DIMENSIONS. LINER, WHERE USED, HAS ALREADY BEEN FACTORED INTO THE DUCT SIZE TO ACCOMMODATE PROPER FREE AREA.
3) THE INSULATION THICKNESS GIVEN MEETS OR EXCEEDS THE REQUIRED R-VALUE FOR THE BASIS OF DESIGN (JOHNS MANVILLE). INSTALLED PRODUCT SHALL MEET OR EXCEED THE LISTED R-VALUE; INSULATION THICKNESS AND CORRESPONDING DUCT SIZE (FOR LINER) SHALL BE INCREASED FOR ALTERNATES THAT CANNOT MEET THIS THICKNESS TO PERFORMANCE CONDITION.
4) R-VALUES FOR WRAP SHALL BE SHOWN USING THEIR INSTALLED CONDITION RATING AS NOTED ON THE MANUFACTURER'S SPECIFICATION SHEET.
5) JACKET (PVC OR METAL) SHALL BE INSTALLED AS REQUIRED BY THE SPECIFICATIONS.
6) FLEXIBLE DUCT SHALL BE AS NOTED IN THE "AIR DUCT ACCESSORIES" SPECIFICATION.
7) DUCT WRAP IS ALLOWED TO BE BLANKET OR BOARD; CONTRACTOR OPTION.
8) MULTIPLE LAYERS OF WRAP OR LINER TO ACHIEVE TOTAL R-VALUE ARE ACCEPTABLE IF INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

SPECIFIC NOTES:
1) FIELD CONSTRUCTED PLENUMS SHALL MATCH THE REQUIREMENTS OF MAIN DUCTS UNLESS SPECIFICALLY NOTED OTHERWISE.
2) INSULATION PROVIDED FOR ACOUSTICS OR OTHER PERFORMANCE CRITERIA, NO ENERGY CODE REQUIREMENT
3) WHERE EXHAUST TO THE ENERGY RECOVERY IS COMING FROM A MOIST ENVIRONMENT (LOCKER, SHOWER, DISHWASHER, LAUNDRY, ETC.) WRAP SHALL BE PROVIDED IN LIEU OF LINER BACK TO MAIN OR FOR 25'; WHICHEVER DISTANCE IS GREATER.
4) EXHAUST SYSTEMS SHALL BE PROVIDED WITH 1" WRAP INSULATION BETWEEN SYSTEM BACKDRAFT DAMPER AND PENETRATION OF BUILDING EXTERIOR OR ALL DUCT WITHIN 20' OF BUILDING EXTERIOR PENETRATION WHICHEVER IS LESS TO PREVENT CONDENSATION.
5) WRAP USED EXTERIOR TO THE BUILDING SHALL BE PROTECTED USING FIELD APPLIED METAL JACKETS.

DEFINITIONS:
EXPOSED DUCT: DUCT THAT IS EXPOSED TO VIEW IN OCCUPIED OR UNOCCUPIED SPACES THAT ARE CONDITIONED.
CONCEALED DUCT: DUCT THAT IS CONCEALED IN CHASES, SHAFTS, CEILING PLENUMS OR OTHER ASSEMBLY WITHIN THE INSULATED BUILDING ENVELOPE.
MAIN DUCT: DUCT FROM THE AIR HANDLING UNIT TO FINAL TERMINAL TAKEOFF.
MAIN TO TERMINAL DUCT: THIS IS A BRANCH DUCT; TYPICALLY THE DUCT FROM THE MAIN TAKEOFF TO THE TERMINAL (VAV BOX OR EQUIVALENT).
TERMINAL TO GRD DUCT: THIS IS A BRANCH DUCT DOWNSTREAM OF THE TERMINAL (VAV BOX, HEAT PUMP, FAN COIL OR EQUIVALENT).
OUTSIDE AIR TEMPERED: TEMPERED OUTSIDE AIR IS AIR THAT IS HEATED OR COOLED TO WITHIN 10 DEG F OF THE SPACE/SURROUNDING TEMPERATURE.
INDOOR: DUCT LOCATIONS WITHIN THE INSULATED BUILDING ENVELOPE.
OUTDOOR: DUCT LOCATIONS OUTSIDE OF THE INSULATED BUILDING ENVELOPE (ON GRADE, ROOF, EXTERIOR SOFFIT, EXTERIOR CHASE, ATTIC, CRAWLSPACE, ETC.).

LINEAR DIFFUSER SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2.PROVIDE WITH CONCEALED FASTENERS.
3.DIFFUSERS WITH MULTIPLE SLOTS SHALL HAVE THE INNER MOST SLOT DIRECTED TOWARDS THE INTERIOR OF THE BUILDING, THE REMAINING SHALL BE DIRECTED TOWARDS THE EXTERIOR UNLESS NOTED OTHERWISE.2 – 34375.
4.PROVIDE WITH FIRE DAMPER.

TAG NAME	MATERIAL	SLOT WIDTH	NO. OF SLOTS	WIDTH	LENGTH	PLENUM REQUIRED	PLENUM INSULATION TYPE	PLENUM INLET SIZE	PATTERN CONTROL REQUIRED	BALANCING DAMPER REQUIRED	FINISH	MANUFACTURER	MODEL	NOTES
LD-4	STEEL	3/4"	4	8"	4'-0"	Yes	LINED	SEE DWG.	Yes	No	WHITE	PRICE	TBD	NOTE 1, 2 , 3, 4

HVAC PIPING INSULATION SCHEDULE

SYSTEM	INSULATION TYPE	FLUID...	PIPE SIZES: <1"	1" TO <1-1/2"	1-1/2" TO <4"	4" TO <8"	8" AND LARGER	SPECIFIC NOTES
HEATING HOT WATER, SNOWMELT	GLASS FIBER OR MINERAL FIBER PREFORMED PIPE INSULATION	> 350 DEG F	4-1/2"	5"	5"	5"	5"	
		251 TO 350 DEG F	3"	4"	4-1/2"	4-1/2"	4-1/2"	
		201 TO 250 DEG F	2-1/2"	2-1/2"	2-1/2"	3"	3"	
		141 TO 200 DEG F	1-1/2"	1-1/2"	2"	2"	2"	
		< 140 DEG F	1"	1"	1-1/2"	1-1/2"	1-1/2"	

GENERAL NOTES:
1) FOR PIPING EXPOSED TO THE OUTSIDE AMBIENT CONDITIONS OR PIPING PROVIDED WITH HEAT TRACE, INCREASE THICKNESS OF INSULATION BY 1/2".
2) FOR PIPING EXPOSED TO THE OUTSIDE AMBIENT CONDITIONS PROVIDE PROTECTIVE JACKET (SEE SPECIFICATIONS).
3) ALL INSULATION EXPOSED TO UV CONDITIONS SHALL BE PROTECTED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
4) MINIMUM THERMAL CONDUCTIVITY "k" VALUE FOR FLEXIBLE ELASTOMERIC SHALL BE 0.27 AT 75 DEG. F
5) MINIMUM THERMAL CONDUCTIVITY "k" VALUE FOR GLASS FIBER SHALL BE 0.23 AT 75 DEG. F

SPECIFIC NOTES:
1) CONDENSER WATER INSULATION ONLY REQUIRED FOR SYSTEMS THAT OPERATE A WATER SIDE "FREE COOLING" ECONOMIZER THAT OPERATES BELOW 60 DEG F, REVIEW SEQUENCE OF OPERATION. FOR STANDARD CONDENSER WATER SYSTEMS THAT ONLY OPERATE BETWEEN 61 AND 104 DEG F; INSULATION IS NOT REQUIRED.
2) DIRECT BURIED GEOTHERMAL PIPING SHALL NOT BE INSULATED.
3) FINAL INSULATION THICKNESSES FOR REFRIGERANT PIPING SHALL BE PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

ASHRAE STANDARD 62.1-2013 / IMC 2015 VENTILATION RATE PROCEDURE CALCULATIONS - EXISTING UNIT EVALUATION

Unit: RTU-01

Existing Air Handling Unit % Outside Air (NOTE 3) : 29%

UNIT	ROOM NUMBER	ROOM NAME	ZONE TYPE	AREA SQ FT	OCCUPANT OUTDOOR AIRFLOW RATE CFM/PER	AREA OUTDOOR AIRFLOW RATE CFM/SQ FT	OCCUPANT DENSITY PEOPLE PER 1000 SQ FT	OCCUPANT QUANTITY	OVER-VENTILATION PERCENTAGE	BREATHING ZONE OUTDOOR AIRFLOW RATE CFM	TABLE 6-2 ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	TOTAL SUPPLY AIR TO ZONE AT CONDITION ANALYZED CFM - NOTE 1	ZONE VENTILATION EFFICIENCY (Evz)	SYSTEM VENTILATION EFFICIENCY NOTE 2 (Ev)	ACTUAL OSA CFM REQUIRED AT UNIT FOR ZONE	MINIMUM PERCENTAGE AIRFLOW AT UNIT	MINIMUM OUTSIDE AIRFLOW AT UNIT AT UNIT FOR SCOPE
RTU-01	CLINIC	514	Reception areas	255	5.0	0.06	30	8	0%	54	0.8	230	0.80	0.72	74	-	-
	OFFICE	514H	Office space	71	5.0	0.06	5	0	0%	6	0.8	90	1.00	0.72	8	-	-
	OBSERVATION	514G	Daycare sickroom	85	10.0	0.18	25	2	0%	37	0.8	325	0.95	0.72	51	-	-
	TELE CON	514F	Office space	42	5.0	0.06	5	0	0%	4	0.8	65	1.02	0.72	5	-	-
	CLEAN STOR	514E	Storage rooms	36	0.0	0.12	0	0	0%	4	0.8	50	0.98	0.72	6	-	-
	TELE CON	514D	Office space	37	5.0	0.06	5	0	0%	3	0.8	65	1.03	0.72	4	-	-
	OFFICE	514C	Office space	85	5.0	0.06	5	0	0%	7	0.8	490	1.07	0.72	10	-	-
	EXAM	514B	Science laboratories	85	10.0	0.18	25	2	0%	37	0.8	460	0.99	0.72	51	-	-
	LAB	514K	Science laboratories	34	10.0	0.18	25	1	0%	15	0.8	50	0.72	0.72	20	-	-
	RR	514J	Corridors	54	0.0	0.06	0	0	0%	3	0.8	50	1.01	0.72	4	-	-
	CORRIDOR	514a	Corridors	144	0.0	0.06	0	0	0%	9	0.8	150	1.01	0.72	12	-	-
	CUST	514L	Corridors	19	0.0	0.06	0	0	0%	1	1.0	45	1.06	0.72	2	-	-
RTU-01	TOTALS FOR SCOPE OF WORK AREA											2070	-	0.72	248	12%	248

SPECIFIC NOTES:
1. TOTAL SUPPLY AIR AT CONDITION ANALYZED USES THE MAXIMUM AIRFLOW PROVIDED TO THE ZONE DURING THE HEATING OR COOLING MODE, WHICHEVER IS THE CURRENT CONDITION BEING ANALYZED.
2. AS DETERMINED USING THE ASHRAE 62.1-2010 "62 MZ Calc" SPREADSHEET. SYSTEM VENTILATION EFFICIENCY IS EQUAL TO THE LOWEST ZONE VENTILATION EFFICIENCY OF ALL ROOMS SERVED BY THE UNIT AREA UNDER THE CURRENT SCOPE OF WORK.
3. EXISTING AIR HANDLING UNIT % OUTSIDE AIR PER THE BUILDING/PROPERTY MANAGER.
4. CALCULATIONS SHOW COMPLIANCE WITH INTERNATIONAL EXISTING BUILDING CODE (IEBC) SECTION 809 MECHANICAL ALTERATIONS WHICH ALLOW FOR 5 CFM/PERSON IN EXISTING SPACES.
5. OCCUPANT QUANTITY MAY VARY FROM OCCUPANT DENSITY FROM IMC. IN THOSE CASES OCCUPANT QUANTITY IS ADJUSTED TO MEET DATA PROVIDED BY THE CLIENT. THIS IS ACCEPTABLE PER IMC 403.3 EXCEPTION.
OCCUPANCY RATES GREATER THAN CODE NOTED WITH AN BOLD UNDERLINE. OCCUPANCY RATES LESS THAN CODE NOTED WITH AN BOLD DOUBLE UNDERLINE.

TOTAL - Unit Outside Airflow Balance Setpoint [cfm], Note 3	1125
TOTAL - Unit Supply Airflow Balance Setpoint [cfm], Note 3	3905
Scope - Percentage of Unit Flow	53.01%
Scope Associated - Unit Outside Airflow Balance Setpoint [cfm]	596
Unit Meets ASHRAE 62.1 Requirements	**Yes**

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

100% CONSTRUCTION DOCUMENTS

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL SCHEDULES

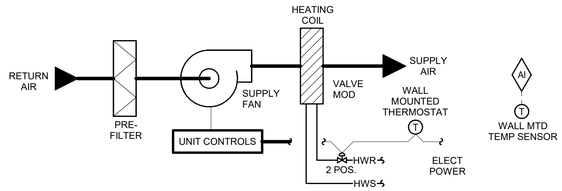
LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

REUSE OF DOCUMENTS: THE IDEAS AND DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN BRE
CHECKED EJS
DATE 06.25.2021
SHEET NO. M3.1



SEQUENCE OF OPERATION:

THE CABINET/UNIT HEATER SHALL BE FURNISHED WITH A UNIT MOUNTED LINE VOLTAGE THERMOSTAT. SET AT 65 DEG. F.

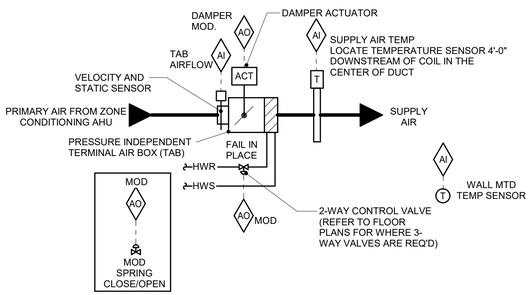
DDC TO PROVIDE A SEPARATE SPACE TEMPERATURE SENSOR FOR MONITORING.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

1 CABINET HEATER CONTROL - HYDRONIC

NO SCALE



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER AND TAB HW REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3° F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 20°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL TAB AIRFLOW REACHES ITS MAXIMUM HEATING SETTING. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

4 TAB CONTROL W/ HOT WATER REHEAT - VAV-XX

NO SCALE

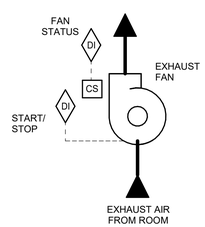
CONTROL SYMBOLS LIST

SYMBOL: DESCRIPTION:

- FAN
- MTR — MOTOR
- R — CONTACTOR
- PUMP
- SP — STATIC SWITCH
- T — LOW LIMIT TEMPERATURE SWITCH
- T — AVERAGING TEMPERATURE SENSOR
- T — PROBE TEMPERATURE SENSOR
- H — HUMIDITY SENSOR
- H — HUMIDIFIER
- FM — DUCT FLOW METER
- DSD — DUCT SMOKE DETECTOR
- FS — AIR FLOW SWITCH
- C — CARBON MONOXIDE SENSOR
- C2 — CARBON DIOXIDE SENSOR
- H — HUMIDISTAT SENSOR
- O — OCCUPANCY SENSOR
- P — PRESSURE SENSOR / MONITOR
- S — SENSOR
- T — THERMOSTAT
- H — HUMIDISTAT/SENSOR (DUCT MOUNTED)
- P — PRESSURE SENSOR (DUCT MOUNTED)
- T — TEMPERATURE SENSOR (DUCT MOUNTED)
- ACT — ACTUATOR
- DS — DOOR SWITCH
- DP — DIFFERENTIAL PRESSURE SWITCH
- CS — CURRENT SWITCH
- VS — VIBRATION SWITCH
- FM — FLOW METER
- AI — ANALOG INPUT
- DI — DIGITAL INPUT
- AO — ANALOG OUTPUT
- DO — DIGITAL OUTPUT
- HEATING/ COOLING COIL
- FILTER
- AIR BLENDER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- TERMINAL AIR BOX
- TERMINAL AIR BOX W/REHEAT
- NORMALL CLOSED CONTACT
- NORMALLY OPEN CONTACT
- MANUAL MOTOR STARTER W/THERMAL OVERLOAD
- CWR — CHILLED WATER RETURN
- CWS — CHILLED WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- CONTROL VALVE (THREE-WAY)
- CONTROL VALVE (TWO-WAY)
- CHECK VALVE
- T — TEMPERATURE SENSOR WITH WELL
- F — FLOW SWITCH
- EA — EXHAUST/RELIEF AIR
- MA — MIXED AIR
- N.C. — NORMALLY CLOSED
- N.O. — NORMALLY OPEN
- OA — OUTSIDE AIR
- RA — RETURN AIR
- SA — SUPPLY AIR

2 CONTROL DIAGRAM SYMBOLS LIST

NO SCALE



SEQUENCE OF OPERATION:
EF-01

EXHAUST FAN SHALL BE INDEXED TO RUN CONTINUOUSLY DURING SPACE OCCUPIED HOURS. A SEPARATE SCHEDULE MAY BE REQUIRED FROM THE BUILDING.

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE EVENT OF COMMAND DOES NOT EQUAL STATUS.

5 EXHAUST FAN CONTROL - FAN-X

NO SCALE

GENERAL CONTROL NOTES:

1. REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
2. EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
3. ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT UNLESS AN ACTUATOR IS SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFICATIONS TO BE PNEUMATIC.
5. ALL MODULATING DAMPER AND VALVE ACTUATORS SHOWN WITH POSITION FEEDBACK SHALL HAVE THE VALVE POSITION DISPLAYED ON GRAPHICAL SCREEN ADJACENT TO THE DAMPER/VALVE COMMAND SIGNAL. DISPLAYED VALVE POSITION SHALL BE FROM THE FEEDBACK DEVICE/CIRCUIT (OUTPUT SIGNAL FROM THE FMCS TO THE ACTUATOR IS NOT ACCEPTABLE)
6. MODULATING SIGNALS SHALL BE DISPAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
7. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DUCT STATIC PRESSURE SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES FAN SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
8. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DIFFERENTIAL PRESSURE OF ANY PUMPED WATER SYSTEM (E.G. HEATING HOT WATER, CHILLED WATER AND THE LIKE) SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES PUMP SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
9. ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
10. EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION 23 09 00 FOR ADDITIONAL REQUIREMENTS.
11. TCC SHALL EXTEND 24 VOLT POWER FROM CONTROL POWER SHOWN ON FLOOR PLANS TO ALL TERMINAL AIR BOX CONTROLLERS JUNCTION BOX. TCC SHALL PROVIDE ALL WIRING, SUPPORTS, FUSING SPACE, TOGGLE SWITCHES, AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
12. CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
13. TCC SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.

3 GENERAL CONTROL NOTES

NO SCALE

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
MECHANICAL CONTROLS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS: THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY PROJECT WITHOUT WRITTEN AUTHORIZATION OF KCG | LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

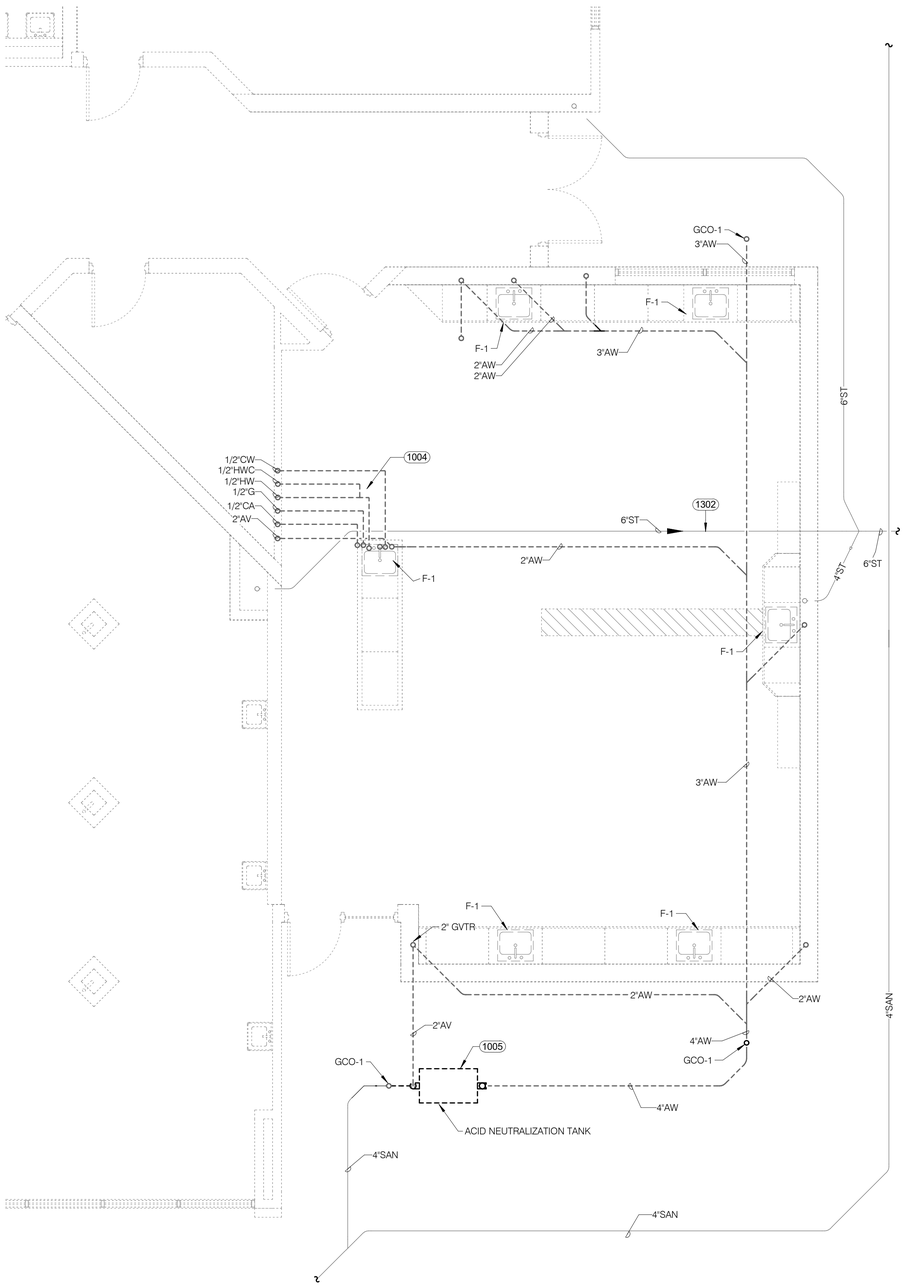
IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

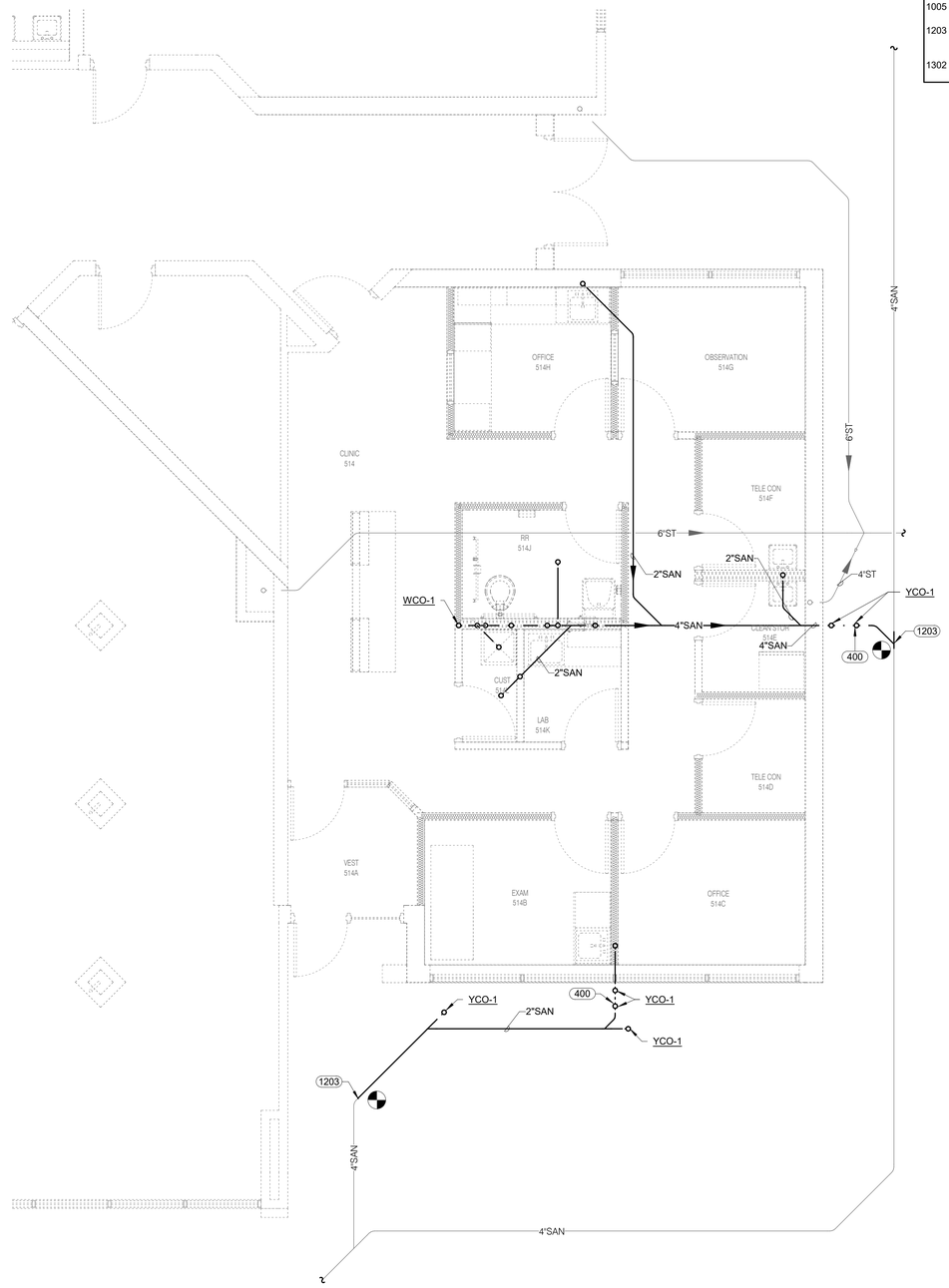
DRAWN: BRE
CHECKED: EJS
DATE: 06.25.2021
SHEET NO.: M3.2

KEYNOTES

400	REFER TO DOUBLE CLEANOUT DETAIL.
1004	REMOVE ALL PIPING WITHIN TRENCH TO ISLAND SINK.
1005	REMOVE EXISTING ACID NEUTRALIZATION TANK AND ALL ASSOCIATE ACID WASTE PIPING AND VENTING.
1203	CONNECT NEW SANITARY TO EXISTING. FIELD LOCATE EXISTING SANITARY AND VERIFY INVERT PRIOR TO ANY WORK.
1302	EXISTING STORM PIPING TO REMAIN. FIELD COORDINATE LOCATION AND PROTECT IN PLACE.



NORTH 1 **UNDERFLOOR PLUMBING DEMOLITION PLAN**
1/4" = 1'-0"



NORTH 2 **UNDERFLOOR PLUMBING NEW PLAN**
1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
UNDERFLOOR PLUMBING
DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RISE OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

100% CONSTRUCTION DOCUMENTS

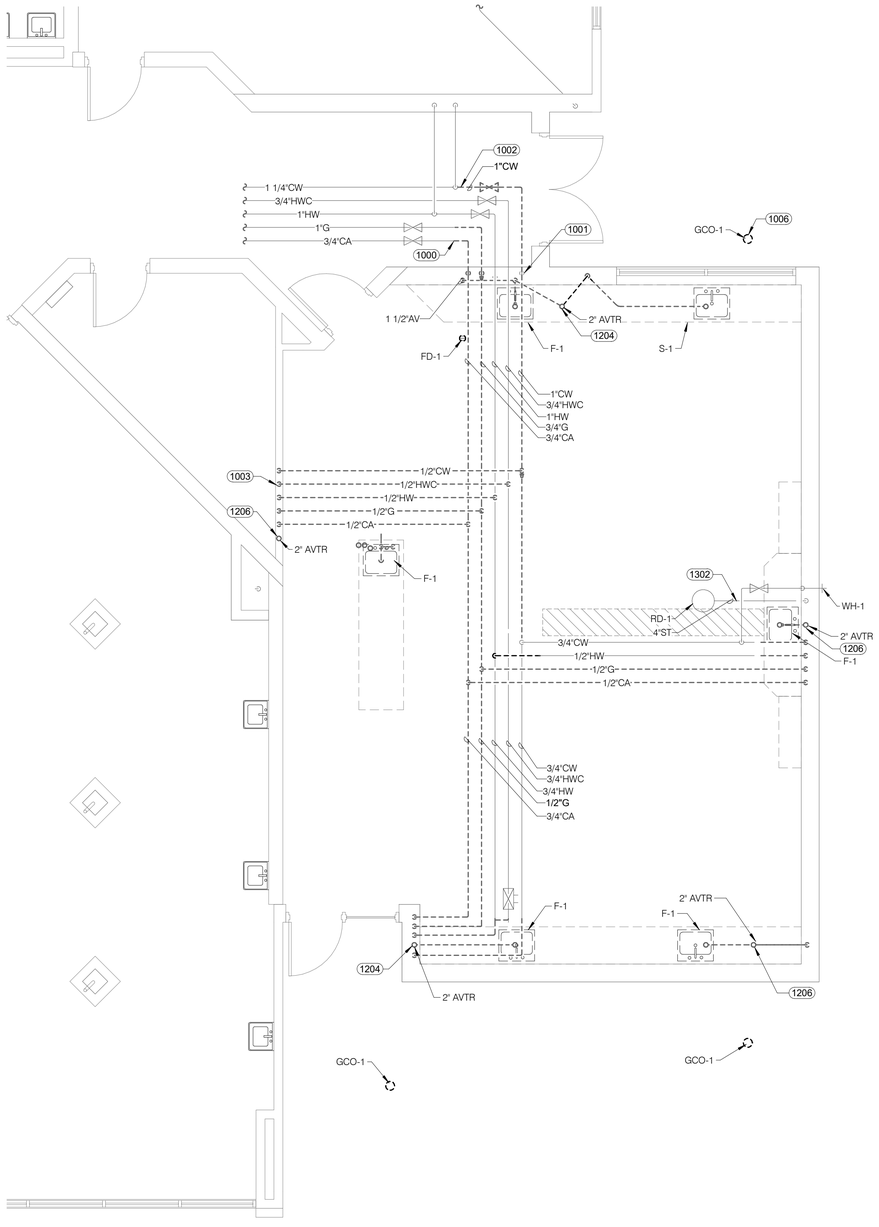
REVISIONS			
NO.	BY	DESCRIPTION	DATE

DRAWN BRE
CHECKED EJS
DATE 06.25.2021
SHEET NO. P0

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

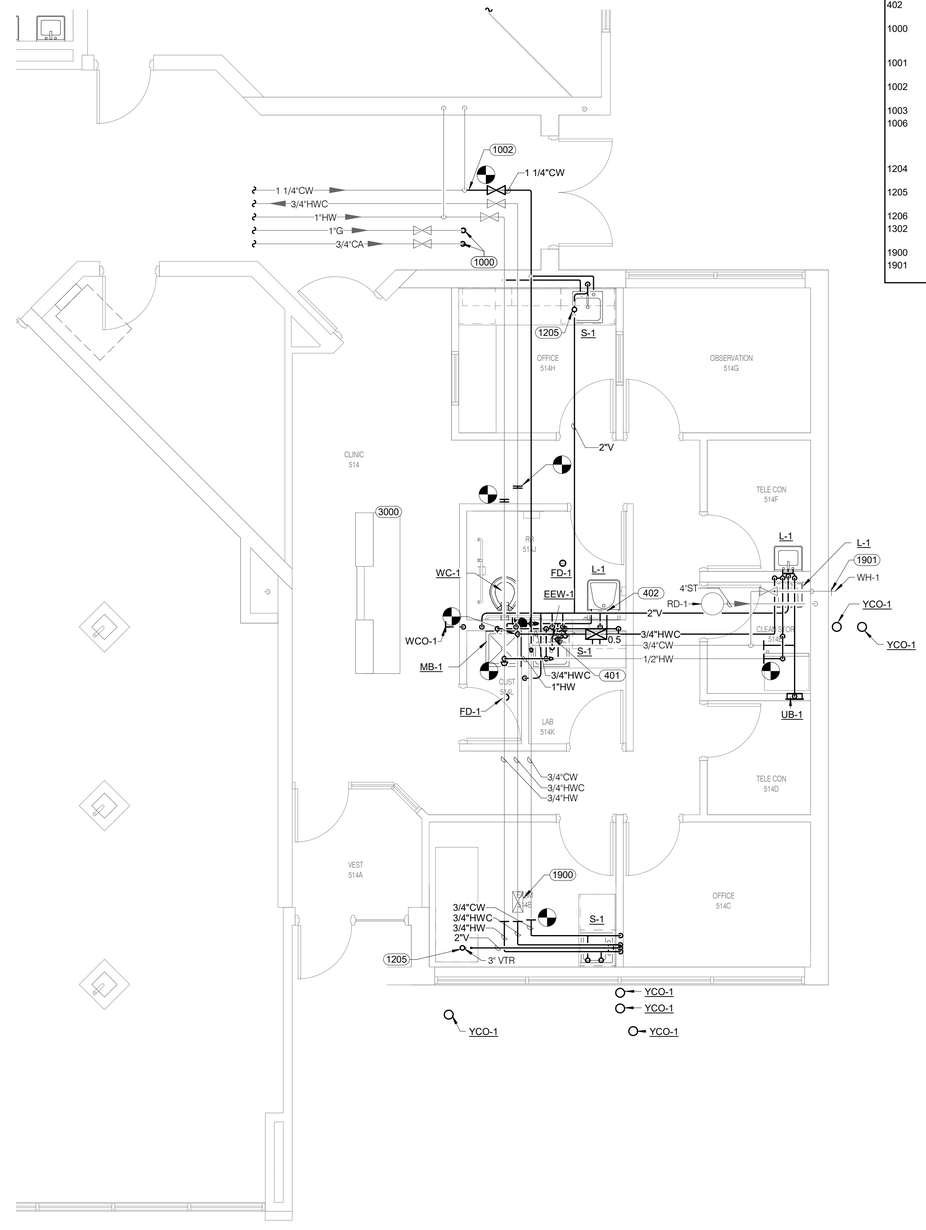
IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3



1 PLUMBING DEMOLITION PLAN

1/4" = 1'-0"



2 PLUMBING NEW PLAN

1/4" = 1'-0"

KEYNOTES

401	COUNTER MOUNTED EMERGENCY EYE WASH. REFER TO DETAIL.
402	REFER TO LAVOTARY MIXING VALVE DETAIL FOR HOT WATER RECIRCULATION CONNECTION.
1000	DEMOLISH GAS AND COMPRESSED AIR PIPING FROM THIS POINT AND ADD PIPE CAP WITH ISOLATION VALVE AT THIS LOCATION.
1001	REMOVE ALL DOMESTIC WATER PIPING, SANITARY, AND VENT PIPING TO EXISTING SCIENCE SINKS. TYPICAL.
1002	DEMOLISH 1" CW AND ROUTE 1-1/4" CW PIPE TO NEW WC-1.
1003	REMOVE ALL PIPING TO ISLAND SINK.
1006	REMOVE EXISTING GRADE CLEANOUTS ASSOCIATED WITH REMOVAL OF THE ACID WASTE SYSTEM. PATCH/MATCH EXISTING SURFACE. FIELD COORDINATE SURFACE TYPE. TYPICAL.
1204	EXISTING ROOF OPENING TO BE REUSED. REFER TO NEW PLAN.
1205	PROVIDE NEW 3" VTR AT EXISTING ROOF PENETRATION. MODIFY ROOF OPENING AND PATCH AS REQUIRED.
1206	PATCH ROOF OPENING TO MATCH EXISTING.
1302	EXISTING STORM PIPING TO REMAIN. FIELD COORDINATE LOCATION AND PROTECT IN PLACE.
1900	RE BALANCE EXISTING TO 0.5 GPM.
1901	EXISTING WALL HYDRANT TO REMAIN. FIELD COORDINATE LOCATION AND PROTECT IN PLACE.

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
PLUMBING DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RISUL OF DOCUMENTS
THE IDEAS AND DESIGN INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

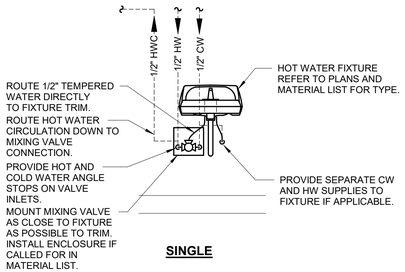
REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

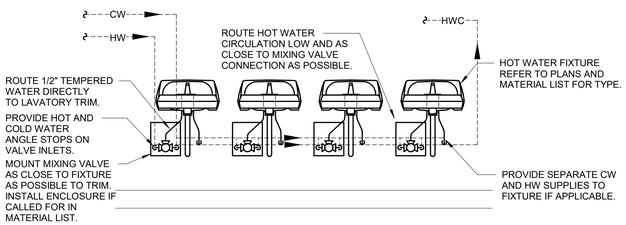
IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN	BRE
CHECKED	EJS
DATE	06.25.2021
SHEET NO.	P1



SINGLE



MULTIPLE/BANK

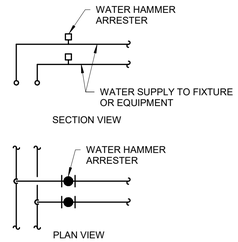
LAVATORY SHOWN; DETAIL IS APPLICABLE TO ALL HW FIXTURES AND DEVICES (E.G. LAVATORIES, SINKS, SHOWERS, TUBS, MOP SINKS, LAUNDRY TUBS, ETC.).

1 FIXTURE HOT WATER ROUTING DETAIL

NO SCALE

PROVIDE WATER HAMMER ARRESTER (WHA-#) AT PLUMBING FIXTURES AND QUICK CLOSING VALVES AS INDICATED ON DRAWINGS AND AS RECOMMENDED BY STANDARD PDI-WH201. REFER TO PLUMBING MATERIAL LIST FOR WATER HAMMER ARRESTER DESCRIPTION.

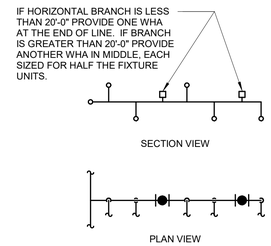
SINGLE / DOUBLE FIXTURE



PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

INSTALL WHA'S PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE WHA AS SHOWN PER THE TABLES ABOVE. PROVIDE ACCESSIBILITY TO WHA WITH ACCESS PANEL OR INSTALL ABOVE ACCESSIBLE CEILING.

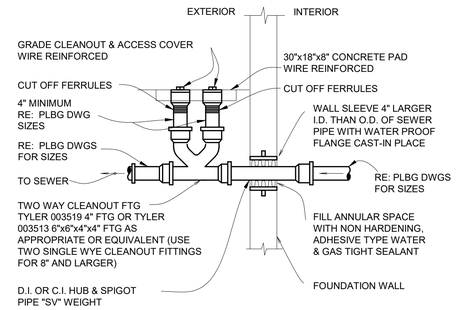
MULTIPLE FIXTURES



FIXTURE UNIT CALCULATION		
FIXTURE	COLD	HOT
WATER CLOSET (F.V.)	10	--
WATER CLOSET (TANK)	5	--
URINAL	5	--
LAVATORY	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	2	-
KITCHEN SINK	2	2
ICE MAKER / BEVERAGE	1	-

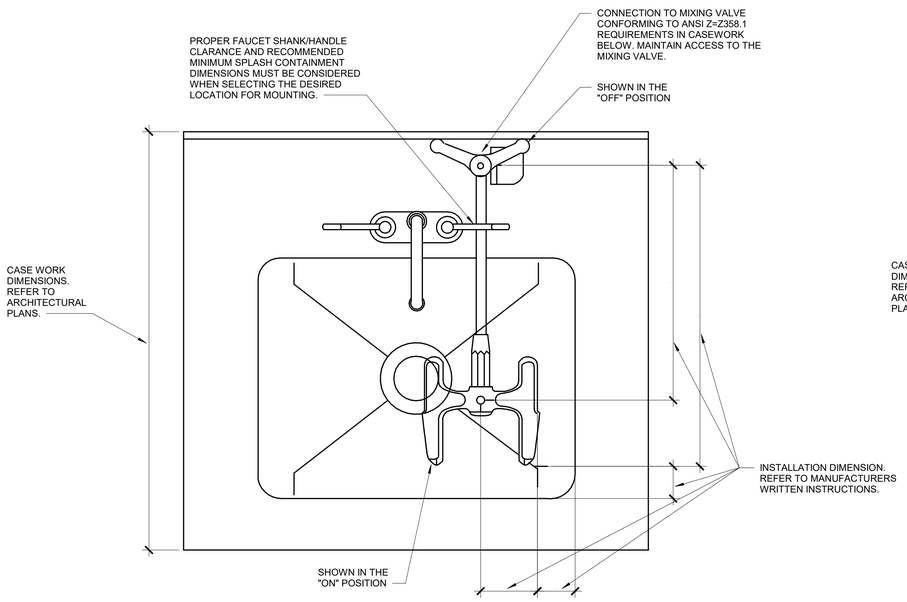
2 WATER HAMMER ARRESTER LOCATION DETAIL

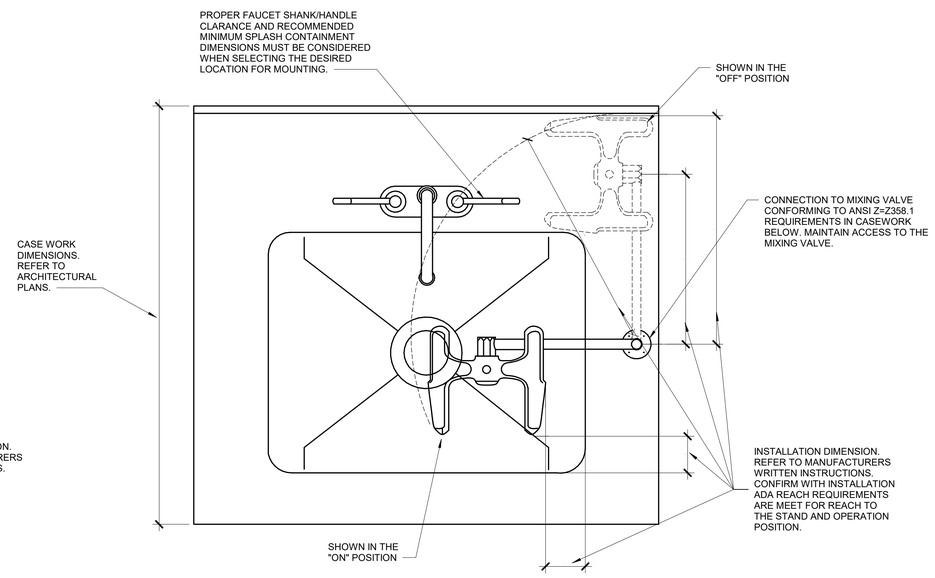
NO SCALE



3 DOUBLE CLEANOUT DETAIL

NO SCALE





4 COUNTER TOP EMERGENCY EYE WASH DETAIL

NO SCALE

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN BY	BRE
CHECKED BY	EJS
DATE	06.25.2021
SHEET NO.	P2

NO.	BY	DESCRIPTION	DATE

REVISIONS

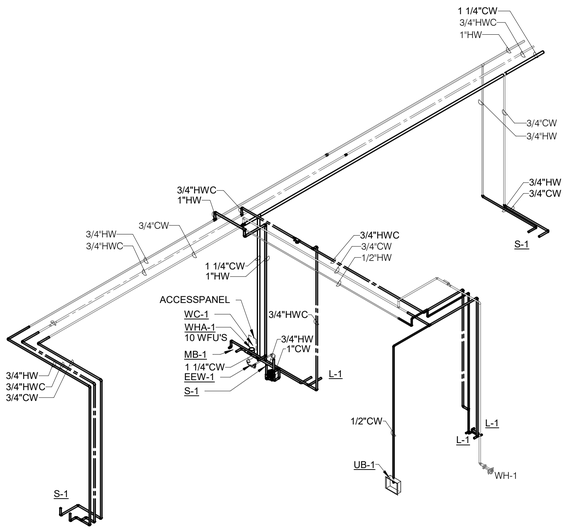
100% CONSTRUCTION DOCUMENTS

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 1 (412) 1 3849
tomkalert@gmail.com

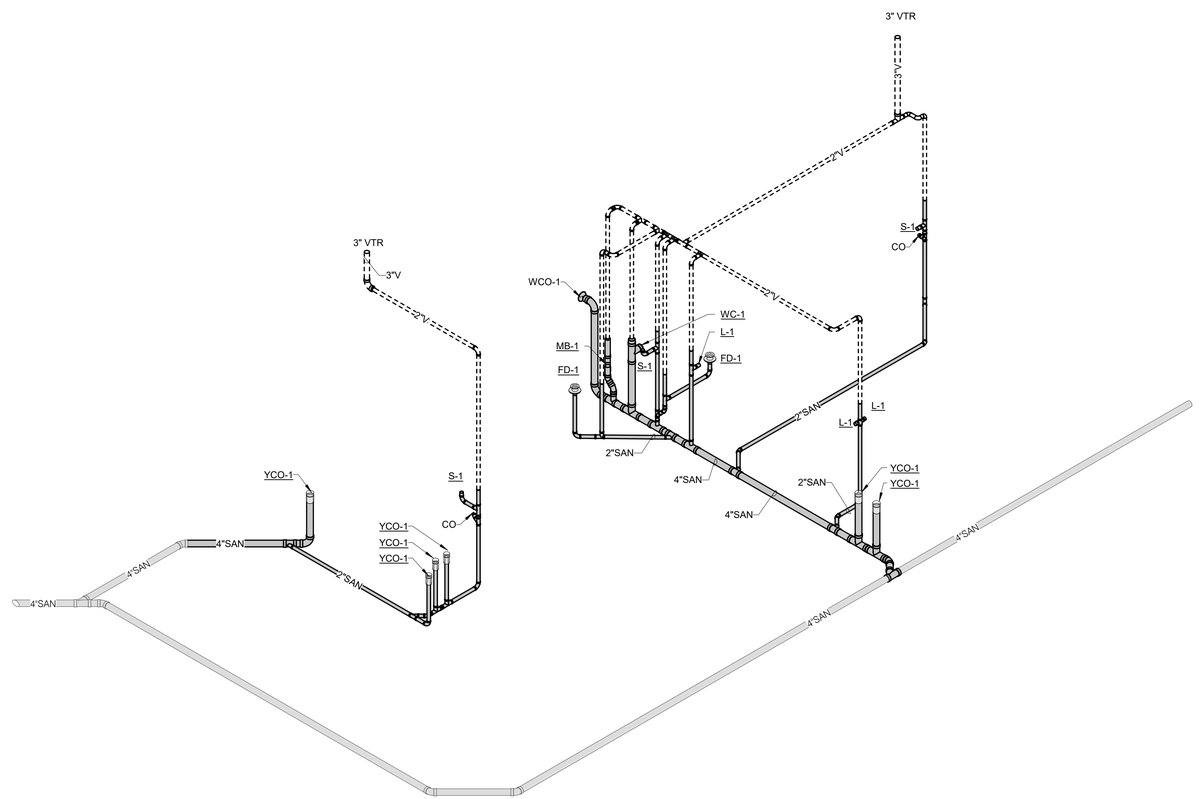
SHEET CONTENTS
PLUMBING DETAILS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS: THE IDEA AND DESIGN INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.



1 WATER RISER
NO SCALE



2 SANITARY RISER
NO SCALE

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN: Author
CHECKED: Checker
DATE: 06.25.2021
SHEET NO. P2.1

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
PLUMBING RISERS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RULE OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
EEW-1	EMERGENCY EYE/FACE WASH - SWING-DOWN, DECK MOUNTED ADJACENT TO SINK, TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS SUPPLY ARMS, INTEGRAL FLOW CONTROL FITTING, BRASS PIPING AND FITTINGS, BRASS/BRONZE STAY OPEN BALL VALVE, SINGLE ACTION ACTIVATION BY METAL FLAG OR BY MOVING INTO POSITION, UNIVERSAL IDENTIFICATION SIGN, ANSI Z358.1-2004 COMPLIANT. MINIMUM FLOW RATE OF 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED. MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH OR COMBINATION EYEWASH/FACEWASH FIXTURE, BRONZE BODY CONSTRUCTION, COLD WATER BYPASS, OUTLET THERMOMETER, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES, MOUNTING BRACKET. SUPPLY SHUT OFF VALVES SHALL BE LOCKED OPEN OR CONTRACTOR SHALL PROVIDE A LOCKING CABINET TO PREVENT UNAUTHORIZED CLOSURE. CABINET SHALL BE RECESSED 18 GAUGE STAINLESS STEEL WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET CHECK STOPS, OUTLET THERMOMETER. THERMOSTATIC MIXING AND PRESSURE REGULATING VALVES TO DELIVER 3 GPM OF TEMPERED WATER (60-100 DEGREE F) WITH 10 PSI PRESSURE DIFFERENTIAL. EYEWASH SHALL COMPLY WITH ANSI Z358.1 AND ASME A112.18.1. MIXING VALVE SHALL BE ASSE 1071 LISTED AND APPROVED.	EMERGRNCY EYE/FACE WASH: BRADLEY (S19-S290D) MIXING VALVE - BRADLEY NAVIGATOR S19-2000 EFX8
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND 2" BOTTOM OUTLET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP. TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072. CONFIRM TRAP SEAL OR TRAP PRIMER REQUIREMENTS WITH AHJ.	FLOOR DRAIN - SMITH FIG. 2005-A TRAP SEAL - SURE SEAL (SS), PROVENT (TRAP GUARD), SMITH (QUAD CLOSE), LIQUID BREAKER (GREEN DRAIN)
L-1	LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH BACKSPLASH, FAUCET HOLES ON 4" CENTERS, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - MANUAL NON-MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, INTEGRAL CHECK VALVES, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. 0.5 GPM. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - K-13885 1-1/4" OFFSET DRAIN WITH STRAINER. K-13711 3/8" I.P.S. SUPPLIES WITH LOOSE KEY STOP, 32753 TAILPIECE, AND K-8998 1-1/4" BRASS P-TRAP, SUPPORT CARRIER. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE MOUNTED TO COMPLY WITH ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS.	LAVATORY - KOHLER GREENWICH (K-2027) LAVATORY TRIM - CHICAGO FAUCET (802 VCP) INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX (PRO-EXTREME) NOTE: PROVIDE MIXING VALVE (MV-1).
MB-1	MOP BASIN - PRECAST TERRAZZO, 24"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES. TRIM -MOP BASIN TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT, ASSE 1053 RATED INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. MOUNT AT 30" ABOVE FLOOR. ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, DEEP SEAL TRAP.	MOP BASIN - WILLIAMS (SB) TRIM - CHICAGO FAUCETS (897-RCF) VACUUM BREAKER - WATTS (8A), OR APPROVED EQUAL
MV-1	MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. 0.5 GPM OUTPUT. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874.	LEONARD (170-BP-LF)
S-1	SINK - ACCESSIBLE, SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK 18 GAUGE TYPE 304 STAINLESS STEEL, 22" (SIDE-TO-SIDE) x 19-1/2" (FRONT-TO-BACK) OVERALL SIZE, 18" x 14" x 6-1/2" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION REAR- CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - TWO HANDLE MIXING FAUCET, CHROME-PLATED FINISH, DOUBLE BEND RIGID SPOUT, NOMINAL 8" REACH, AERATOR, 4" WRISTBLADE HANDLES AT 8" CENTERS. MAXIMUM FLOW TO BE 0.5 GPM. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY LRAD-2219 DRAIN - ELKAY (LK-35) SINK TRIM - CHICAGO FAUCET (527) WITH DB6AJKCP SPOUT AND 369 HANDLES NOTE: PROVIDE MIXING VALVE (MV-1).
UB-1	UTILITY BOX - GALVANIZED STEEL ENCLOSURE, ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, INTREGAL WATER HAMMER ARRESTOR.	GUY GRAY (BIM87), OATEY (39140)
WC-1	WATER CLOSET - ACCESSIBLE (WC-1 ONLY), WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD. FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.28 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, ADA COMPLIANT, 3 YEAR WARRANTY. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS TO COMPLY WITH ADA REQUIREMENTS). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS. NOTE: WC-1 IS ADA ONLY.	WATER CLOSET - AMERICAN STANDARD (2257.101), KOHLER (K-4325), FLUSH VALVE - SLOAN (111-1.28) SEAT - BEMIS (3155SSCT), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER
WCO-1	WALL CLEANOUT - TEE, CAST IRON ACCESS BODY, GAS AND WATERTIGHT THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW.	SMITH (4532S)
WHA-1	WATER HAMMER ARRESTER - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 10 FIXTURE UNITS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	JOSAM (75000 SERIES)
YCO-1	YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	ZURN (Z1474), SMITH (4261), WADE (8401), JOSAM (58680), WATTS (CO-300-MF)

PLUMBING INSULATION SCHEDULE

SYSTEM	INSULATION TYPE	FLUID TEMPERATU...	PIPE SIZES <1"	1" to 1-1/4"	1-1/2" to 3"	4" to 6"	8" and Larger	SPECIFIC NOTES
DOMESTIC COLD WATER	FLEXIBLE ELASTOMERIC OR GLASS FIBER...	---	1/2"	1/2"	1"	1"	1"	1
DOMESTIC HOT WATER AND...	GLASS FIBER OR MINERAL FIBER PREFORMED...	141 TO 200 DEG F	1-1/2"	1-1/2"	2"	2"	2"	
		< 140 DEG F	1"	1"	1-1/2"	1-1/2"	1-1/2"	
VENTS, STORM AND OVERFLOW	FLEXIBLE ELASTOMERIC OR GLASS FIBER...	---	1/2"	1/2"	1"	1"	1"	1
CONDENSATE AND EQUIPMENT DRA...	FLEXIBLE ELASTOMERIC OR GLASS FIBER...	< 60 DEG F	1/2"	1"	1"	1"	1"	

GENERAL NOTES:
1) FOR PIPING EXPOSED TO THE OUTSIDE AMBIENT CONDITIONS OR PIPING PROVIDED WITH HEAT TRACE, INCREASE THICKNESS OF...
2) FOR PIPING EXPOSED TO THE OUTSIDE AMBIENT CONDITIONS PROVIDE PROTECTIVE JACKET (SEE...
3) ALL INSULATION EXPOSED TO UV CONDITIONS SHALL BE PROTECTED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN...
4) MINIMUM THERMAL CONDUCTIVITY "k" VALUE FOR FLEXIBLE ELASTOMERIC SHALL BE 0.27 AT 75...
5) MINIMUM THERMAL CONDUCTIVITY "k" VALUE FOR GLASS FIBER SHALL BE 0.23 AT 75 DEG. F

SPECIFIC NOTES:
1) PROVIDE PIPE INSULATION WICKING SYSTEM ON ALL EXISTING SYTEMS THAT ARE OPERATIONAL DURING INSTALLATION.

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINUMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER.

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
EEW-1	EMERGENCY EYE-FACE WASH	3/4"	3/4"	-	-
FD-1	FLOOR DRAIN	-	-	2"	1 1/2"
L-1	LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"
MB-1	MOP BASIN	3/4"	3/4"	3"	1 1/2"
S-1	SINK	1/2"	1/2"	1 1/2"	1 1/2"
UB-1	UTILITY BOX	1/2"	-	-	-
WC-1	WATER CLOSET (ACCESSIBLE)	1-1/4"	-	4"	2"

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.0099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS. TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
PLUMBING SCHEDULES

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS: THE IDEAS AND DESIGN INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION BY KCG | LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN BRE
CHECKED EJS
DATE 06.25.2021
SHEET NO. P3

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
GB	GROUND BUS
IBT	INTERSYSTEM BONDING TERMINATION
E / E	ELECTRICAL CONNECTION
J / J	JUNCTION BOX
	FLOOR BOX - DUPLEX RECEPTACLE
	FLOOR BOX - DUAL COMPARTMENT
	FLOOR BOX - MULTI SERVICE
TV	TV ANTENNA OUTLET ROUGH-IN
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER. REFER TO DISC/STA SCHEDULE
	ISOLATED POWER PANEL
	INTEGRATED POWER CENTER
	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	PACKAGED POWER CENTER
	CIRCUIT BREAKER - SURFACE MOUNTED. REFER TO DISC/STA SCHEDULE
	CIRCUIT BREAKER - FLUSH MOUNTED. REFER TO DISC/STA SCHEDULE
	DISCONNECT. REFER TO DISC/STA SCHEDULE
	MOBILE DIAGNOSTICS SERVICE DISCONNECT. REFER TO DISC/STA SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
	DUPLEX RECEPTACLE, 125V
	DUPLEX GFI RECEPTACLE, 125V
G	GROUND FAULT DEVICE
W	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
X	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125V
U	DUPLEX RECEPTACLE, USB CHARGING
	SIMPLEX RECEPTACLE, 125V
	RECEPTACLE, 125V
	RECEPTACLE 125V, 50A, 125V
	RECEPTACLE, 6-20R, 250V
	RECEPTACLE, 6-30R, 250V
	RECEPTACLE, 6-50R, 250V
	RECEPTACLE, 7-20R, 277V
	RECEPTACLE, 7-30R, 277V
	RECEPTACLE, 7-50R, 277V
	RECEPTACLE, 14-20R, 125/250V
	RECEPTACLE, 14-30R, 125/250V
	RECEPTACLE, 14-50R, 125/250V
	RECEPTACLE, 14-60R, 125/250V
	RECEPTACLE, 15-20R, 250V, 3PH
	RECEPTACLE, 15-30R, 250V, 3PH
X	RECEPTACLE, EXPLOSION PROOF, 125V
	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	QUAD RECEPTACLE, 125V
	QUAD GFI RECEPTACLE, 125V
U	QUAD RECEPTACLE, USB 125V
W	QUAD GFI WEATHERPROOF RECEPTACLE, 125V
	RECEPTACLE - PEDESTAL STYLE
	RECEPTACLE - PEDESTAL STYLE
	FLOOR BOX - POKE THRU, 125V
	POWER POLE

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
S	SWITCH - SINGLE POLE
S_{60}	SWITCH - LOCAL TIMER - SPRING WOUND
S_T	SWITCH - LOCAL TIMER - USER ADJUSTABLE
S_J	SWITCH - DOOR JAMB
S_E	SWITCH - EMERGENCY
S_X	SWITCH - EXPLOSION PROOF
S_K	SWITCH - SINGLE POLE - KEY LOCK
S_L	SWITCH - LIGHTED HANDLE
S_M	SWITCH - MOMENTARY CONTACT
S_P	SWITCH - PILOT LIGHT
S_W	SWITCH - WEATHERPROOF
S_2	SWITCH - TWO POLE
S_{K2}	SWITCH - TWO POLE - KEY LOCK
S_3	SWITCH - THREE WAY
S_{3E}	SWITCH - THREE WAY - EMERGENCY
S_{K3}	SWITCH - THREE WAY - KEY LOCK
S_4	SWITCH - FOUR WAY
S_{4E}	SWITCH - FOUR WAY - EMERGENCY
S_{K4}	SWITCH - FOUR WAY - KEY LOCK
S_C	SWITCH - THREE POSITION-CENTER OFF
S	COMBINATION SWITCH AND RECEPTACLE
D_6	DIMMER - 600 WATT
D_{10}	DIMMER - 1000 WATT
D_{15}	DIMMER - 1500 WATT
D_{20}	DIMMER - 2000 WATT
D_F	DIMMER - FLUORESCENT BALLAST
D_D	DIMMER - LED
D_E	DIMMER - ELECTRONIC BALLAST
D_L	DIMMER - MAGNETIC BALLAST
$D3_6$	DIMMER - 600 WATT - 3 WAY
$D3_{10}$	DIMMER - 1000 WATT - 3 WAY
$D3_{15}$	DIMMER - 1500 WATT - 3 WAY
$D3_{20}$	DIMMER - 2000 WATT - 3 WAY
D_{D3}	DIMMER - LED - 3-WAY
D_O	DIMMER - WALL DIMMER OCCUPANCY SENSOR
LS	DAYLIGHT LEVEL SENSOR
LS_3	DAYLIGHT LEVEL SENSOR - 3 ZONE
LS_D	DAYLIGHT LEVEL SENSOR - 1 ZONE DIMMING
LS_{3D}	DAYLIGHT LEVEL SENSOR - 3 ZONE DIMMING
PC	PHOTOCELL
OC_D	OCCUPANCY SENSOR - DUAL TECHNOLOGY
OC_D	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
OC_{HA}	OCCUPANCY SENSOR - HIGH BAY AISLE COVERAGE
OC_{HB}	OCCUPANCY SENSOR - HIGH BAY
S_O	SWITCH - OCCUPANCY SENSOR WALL SWITCH
S_{O2}	SWITCH - OCCUPANCY SENSOR AND DUAL SWITCH
OC_P	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
OC_{P2}	OCCUPANCY SENSOR - PASSIVE INFRARED 100 DEGREE COVERAGE
OC_P	OCCUPANCY SENSOR - PASSIVE INFRARED - WALL MOUNTED
OC_U	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
OC_{U2}	OCCUPANCY SENSOR - ULTRASONIC 35'X30' HAND MOTION COVERAGE
OC_A	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
OC_U	OCCUPANCY SENSOR - ULTRASONIC - WALL MOUNTED
SW	WALL CONTROL STATION
TC	TIME SWITCH
#B	DIMMER CONTROL STATION
#B#F	DIMMER CONTROL STATION WITH FADERS
S_{LV}	CENTRAL CONTROL - STATION
	LIGHTING CONTROL STATION
LCD	LIGHTING CONTROL LCD STATION
NLC	NURSE CALL LIGHTING CONTOLLER
ALCR	AUTOMATIC LOAD CONTROL RELAY
BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH 20A

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:
ACU-#	AUTONOMOUS CONTROL UNIT
ASSD-#	AIR SAMPLING SMOKE DETECTION
ATS-#	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE
BAT-#	BATTERY RACK
C-#	GENERAL PURPOSE CONTACTOR
CGA-#	FIRE ALARM - GRAPHIC ANNUNCIATOR
CMD#	EMERGENCY COMMUNICATION MESSAGE DISPLAY
CR-#	CORD REEL
CT-#	CABLE TRAY
CUP-#	CUSTOM UTILITY PEDESTAL
DIM-#	DC DIMMING PANEL
DP-#	DISTRIBUTION PANEL
DR-#	DIMMING RACK
DT-#	GENERATOR DAY TANK
DTR-#	TRANSFORMER - DISTRIBUTION TYPE REFER TO TRANSFORMER SCHEDULE
EVCS-#	ELECTRICAL VEHICLE CHARGING STATION
FAA-#	FIRE ALARM - ANNUNCIATOR
GAP-#	GENERATOR ANNUNCIATOR PANEL
GCC-#	TEMP. GENERATOR/LOAD BANK CONNECTION CABINET
GCP-#	GENERATOR CONTROL PANEL
GEN-#	GENERATOR
GPS-#	GENERATOR PARALLELING AND DISTRIBUTION SWITCHBOARD
GRR-#	GENERATOR REMOTE RADIATOR
HH-#	HANDHOLE
HT-#	HEAT TAPE
INV-#	LIGHTING INVERTER
LC-#	LIGHTING CONTACTOR, REFER TO CONTACTOR SCHEDULE
LOC-#	LOCAL OPERATING CONSOLE
M-#	METER DISTRIBUTION CENTER
MC-#	EXTERIOR MOUNTED METERING CABINET
MCC-#	MOTOR CONTROL CENTER, REFER TO MOTOR CONTROL SCHEDULE
MH-#	MANHOLE
MPC-#	PACKAGED POWER CENTER
MTS-#	MANUAL TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE
MVSG-#	MEDIUM VOLTAGE SWITCHGEAR
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
NEP-#	FIRE ALARM - EXTENDER PANEL
PDU-#	POWER DISTRIBUTION UNIT
PS-#	PAD-MOUNT MEDIUM VOLTAGE SWITCH
R-#	RELAY
RA-ATS-#	REMOTE ANNUNCIATOR FOR ATS
SB-#	SWITCHBOARD
SC-#	SECTIONALIZING CABINET
SCP-#	FIREFIGHTERS SMOKE CONTROL PANEL
SG-#	SWITCHGEAR
SMP-#	SNOW MELT CONTROL PANEL
SMS-#	PAVEMENT MOUNTED DEICING CONTROLLER
SPD-#	SURGE PROTECTION DEVICE
TVA-#	TEXTURAL VISIBLE APPLIANCE
UD-#	UNDERFLOOR DUCT - TRENCH DUCT - CELLULAR FLOOR DUCT
UPS-#	UNINTERRUPTIBLE POWER SUPPLY
US-#	UNIT SUBSTATION
VCC-#	FIRE ALARM - VOICE COMMAND CENTER
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE
WD-#	WALL DUCT

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			AIMABLE OR WALL WASH LUMINAIRE
			INDUSTRIAL LUMINAIRE
			WALL BRACKET LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			WALL/CEILING EMERGENCY EXIT SIGN
			EMERGENCY UNIT

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY BRANCH LUMINAIRE UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED 'SE'

ELECTRICAL SHEET INDEX

E0	ELECTRICAL COVER SHEET
E1	POWER DEMOLITION AND NEW PLANS
E2	LIGHTING DEMOLITION AND NEW PLANS
E3	ELECTRICAL ROOF DEMOLITION AND NEW PLANS
E4	ELECTRICAL ONE-LINE DIAGRAM
E5	ELECTRICAL DETAILS AND SCHEDULES
GRAND TOTAL: 6	

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR] [CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS/HER WORK.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. REFER TO DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO GENERAL CONTRACTOR'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

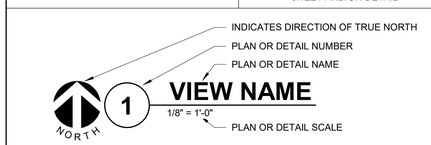
ELECTRICAL ABBREVIATION KEY

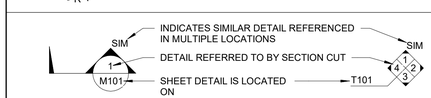
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

VIEW KEY

NAME — LEVEL NAME
10' - 0" — HEIGHT ABOVE PROJECT 0' - 0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL GENERAL NOTES:

1. **##-###** INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
2. **{L###}** INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E5.
3. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
4. REFER TO SHEET E-XXX FOR LIGHTING CONTROL ONE-LINE DIAGRAM.
5. REFER TO SHEET E-XXX FOR LUMINAIRE SCHEDULE.
6. { Z###} INDICATES THE LIGHTING ZONES FOR THE SPACE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE. REFER TO SHEET E5.
7. { B#} PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. REFER TO SHEET E-XXX.
8. { L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. REFER TO SHEET E5.
9. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:

LUMINAIRE
F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)
Z = ZONE DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:

DEVICE
A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
R	MOUNT IN SURFACE RACEWAY
EWC	ELECTRIC WATER COOLER

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. EMERGENCY, LEGALLY REQUIRED, OPTIONAL STANDBY] [LIFE SAFETY, CRITICAL, EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
14. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
15. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
17. ELECTRICAL INDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3849
tomkalert@gmail.com

SHEET CONTENTS
ELECTRICAL COVER SHEET

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

THE KCG | AND DOGAN INCORPORATED DESIGN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE COPIED OR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

REISSUE OF DOCUMENTS

100% CONSTRUCTION DOCUMENTS

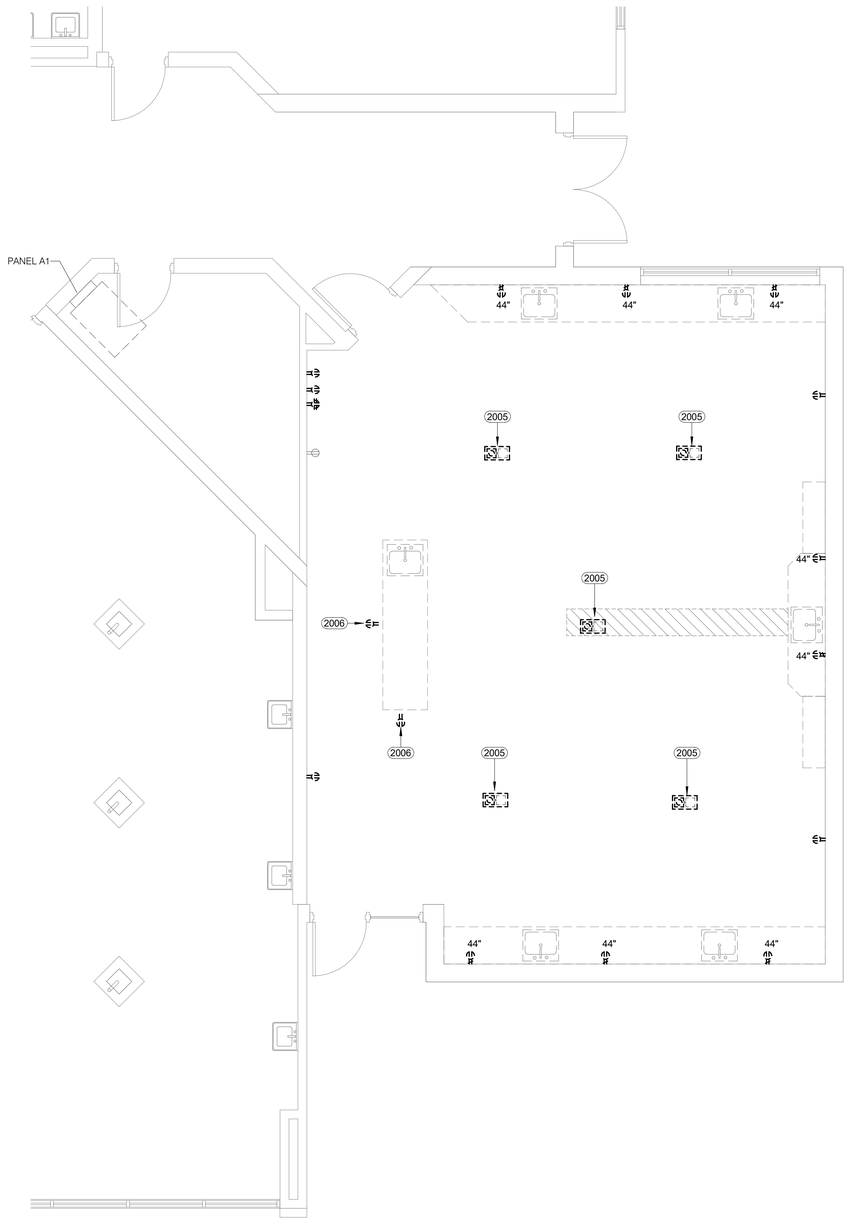
NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN: AGG
CHECKED: MHM
DATE: 06.25.2021
SHEET NO. E0

KEYNOTES

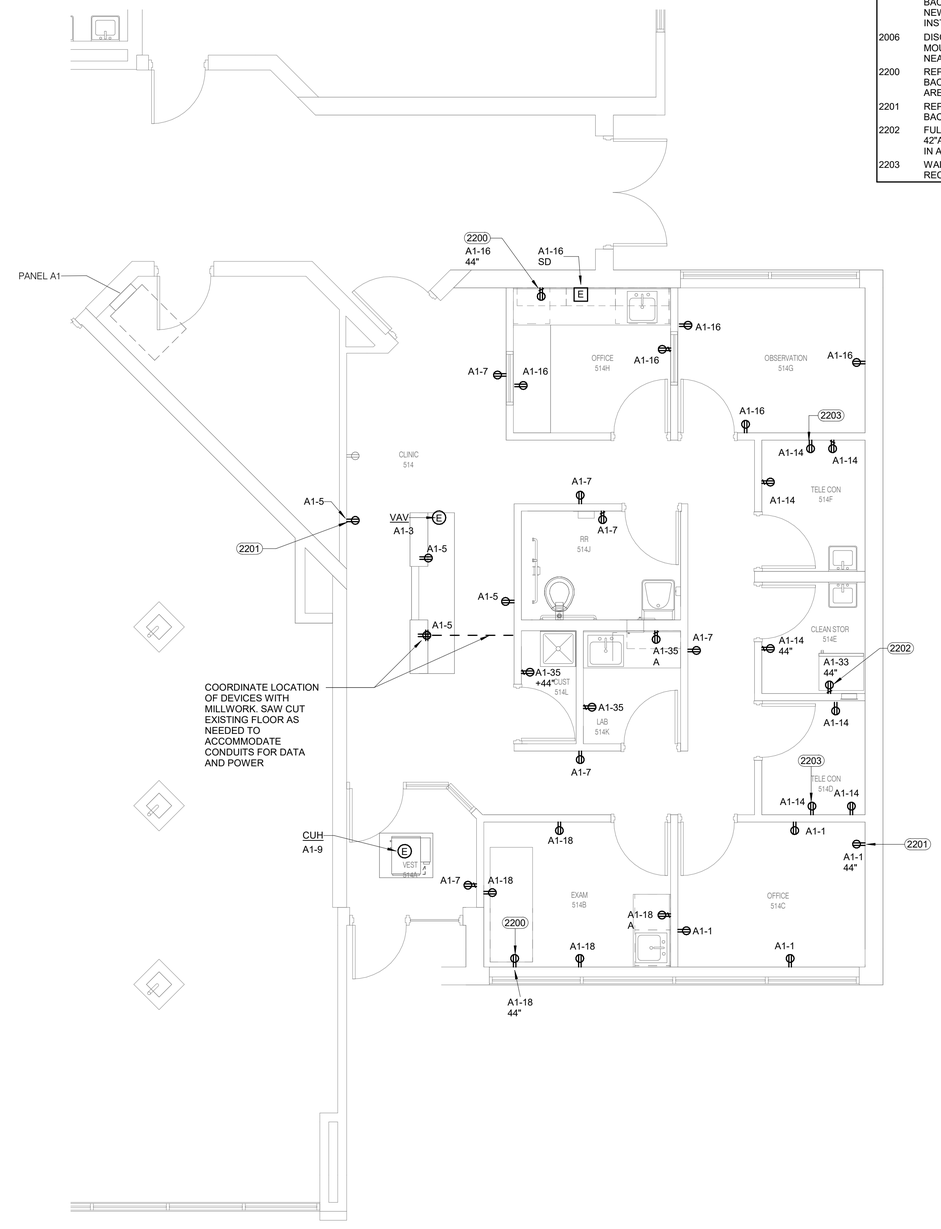
2005	DISCONNECT AND REMOVE DEVICES IN EXISTING FLOOR BOX TO BE REMOVED OR ABANDONED. REMOVE WIRES BACK TO NEAREST ACCESSIBLE LOCATION FOR USE IN NEW WORK. REMOVE BOX OR ABANDON IN PLACE AND INSTALL PERMANENT COVER PLATE.
2006	DISCONNECT AND REMOVE EXISTING RECEPTACLE MOUNTED ON SIDE OF CABINET. REMOVE WIRES BACK TO NEAREST ACCESSIBLE LOCATION FOR USE IN NEW WORK.
2200	REPLACE EXISTING RECEPTACLE WITH NEW IN EXISTING BACK BOX. RE-WIRE TO E4XISTING CIRCUIT SERVING THIS AREA AS SHOWN.
2201	REPLACE EXISTING RECEPTACLE WITH NEW IN EXISTING BACK BOX AND RECONNECT TO NEW CIRCUIT AS SHOWN.
2202	FULL SIZE REFRIGERATOR. PROVIDE GFI RECEPTACLE AT 42"AFF WITH REMOTE TEST LOCATED ADJACENT TO UNIT IN AN ACCESSIBLE LOCATION.
2203	WALL MOUNTED TV/MONITOR. INSTALL DUPLEX RECEPTACLE AT 72"AFF AND CONNECT AS SHOWN.



NORTH

1 POWER DEMOLITION PLAN

1/4" = 1'-0"



NORTH

2 POWER NEW PLAN

1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS

POWER DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG LLC

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

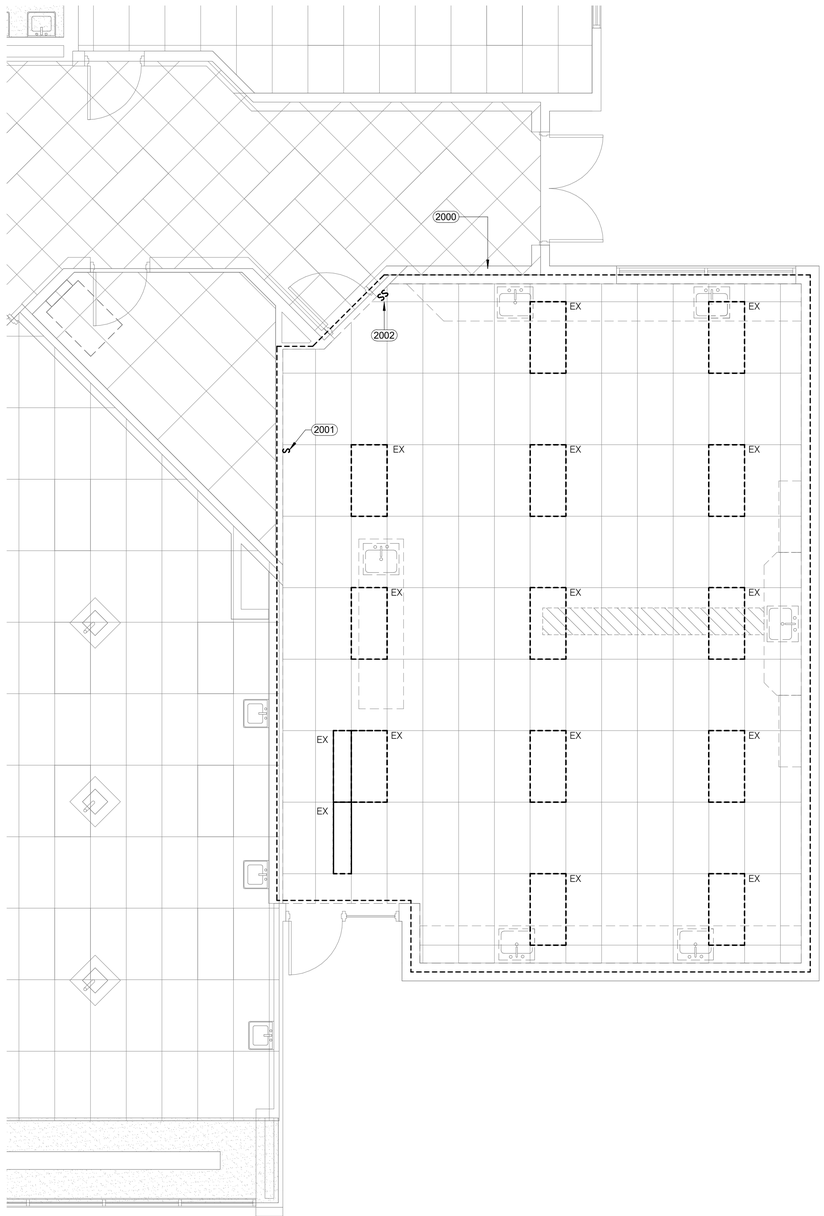
IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN	AGG
CHECKED	MHM
DATE	06.25.2021
SHEET NO.	E1

KEYNOTES

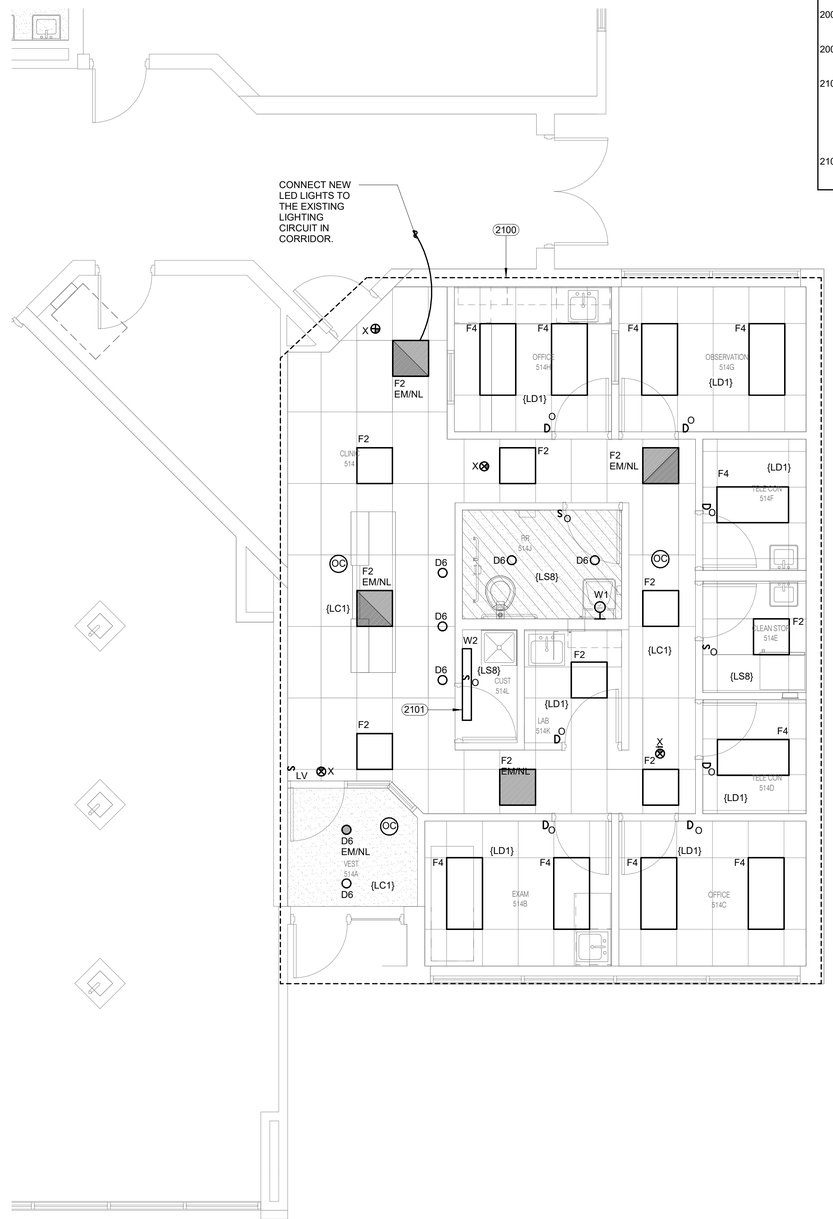
2000	DISCONNECT AND REMOVE EXISTING RECESSED FLUORESCENT LIGHT FIXTURES IN THIS AREA. SAVE AND PROTECT BRANCH WIRES FOR USE IN NEW WORK.
2001	DISCONNECT AND REMOVE EXISTING ON/OFF LIGHT SWITCH. REMOVE WIRES AND INSTALL COVER PLATE ON BACK BOX.
2002	DISCONNECT AND REMOVE EXISTING ON/OFF LIGHT SWITCHES. SAVE AND PROTECT BACK BOX FOR USE IN NEW WORK.
2100	PROVIDE NEW RECESSED LED FLAT PANEL LIGHTS AND NEW LIGHTING CONTROLS AS SHOWN. CONNECT TO EXISTING LIGHTING CIRCUIT HA-20 SAVED DURING DEMOLITION. FOR THE EMERGENCY LIGHTS, EXTEND THE NEAREST EMERGENCY CIRCUIT TO THIS AREA. UPDATE EXISTING PANELBOARD DIRECTORY CARD WITH FOR NEW WORK. NEW LOAD ADDED IS LESS THAN LOAD REMOVED.
2101	PROVIDE NEW LENSED WALL MOUNT STRIP LIGHT ABOVE THE DOOR. COORDINATE EXACT LOCATION PRIOR INSTALLATION.



NORTH

1 LIGHTING DEMOLITION PLAN

1/4" = 1'-0"



NORTH

2 LIGHTING NEW PLAN

1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 412 3049
tomkalert@gmail.com

SHEET CONTENTS
LIGHTING DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KKG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KKG | LLC.

100% CONSTRUCTION DOCUMENTS

REVISIONS

NO.	BY	DESCRIPTION	DATE

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

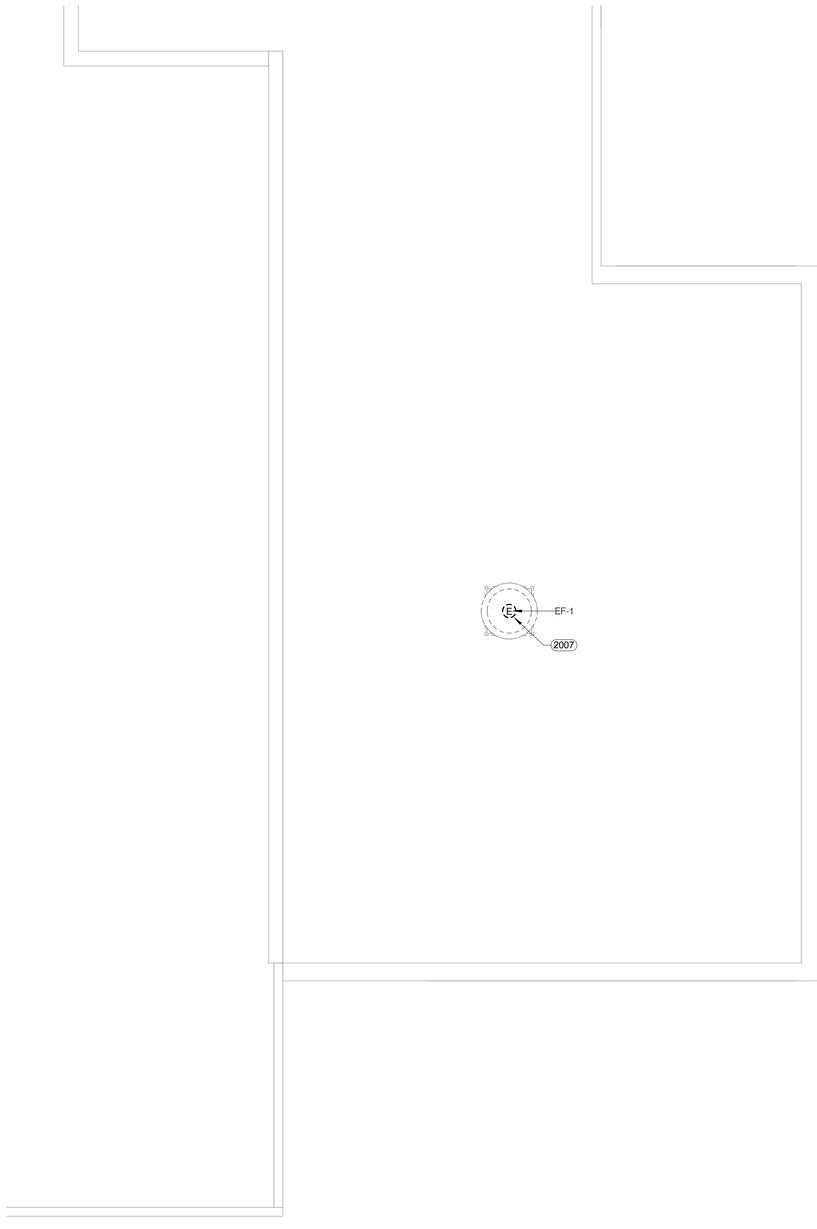
IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN AGG
CHECKED MHM
DATE 06.25.2021
SHEET NO. E2

KEYNOTES

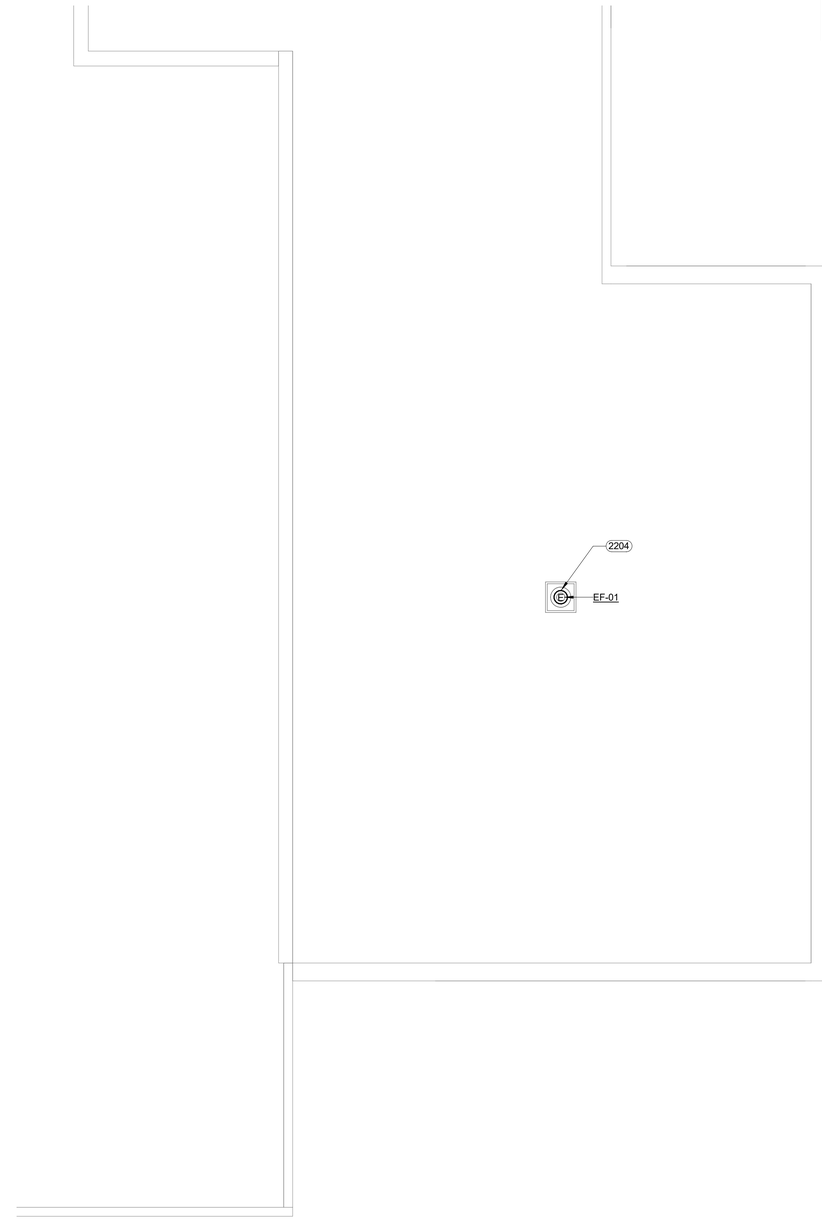
2007	DISCONNECT EXISTNG 120V EXHAUST FAN TO REPLACED WITH NEW OF SAME SIZE AND VOLTAGE. EC SHALL MEGGER TEST EXISTING WIRES AND IF IN GOOD CONDITION SAVE AND PROTECT FOR REUSE.
2204	CONNECT TO EXSTING WIRES IF IN GOOD CONDITION. REPLACE IF NEEDED WITH NEW AS SHOWN ON SHEET E5.



NORTH

1 ELECTRICAL ROOF DEMOLITION PLAN

1/4" = 1'-0"



NORTH

2 ELECTRICAL ROOF NEW PLAN

1/4" = 1'-0"

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS

ELECTRICAL ROOF DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

100% CONSTRUCTION DOCUMENTS

REVISIONS

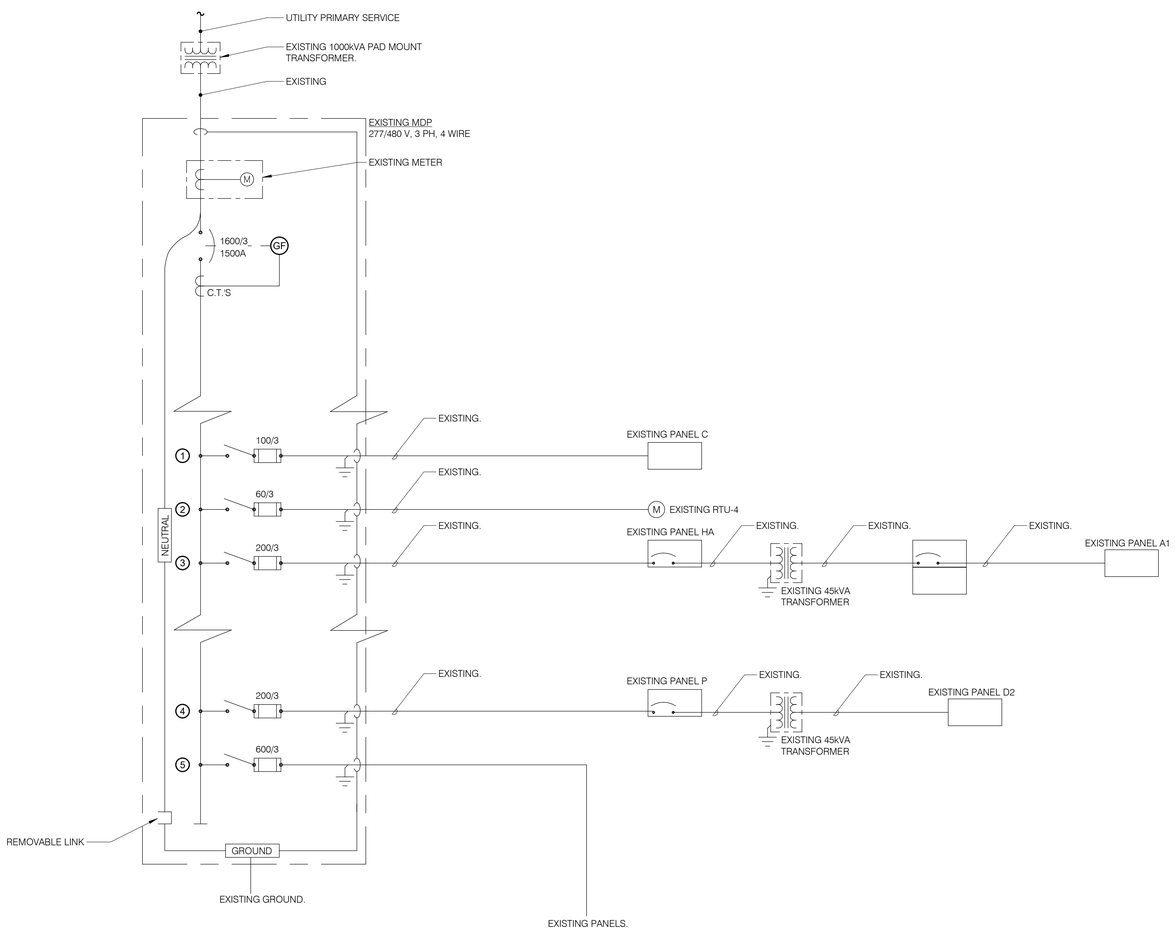
NO.	BY	DESCRIPTION	DATE

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN	AGG
CHECKED	MHM
DATE	06.25.2021
SHEET NO.	E3



1 EXISTING PARTIAL ONE LINE DIAGRAM

NO SCALE

PANEL A1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 125 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10kA
ISC UNKNOWN 0.00 kA

NOTES: EXISTING LOADS HAS NOT BEEN INCLUDED FOR CLARITY. REFER TO LOAD SUMMARY FOR OVERALL PANEL JUSTIFICATION.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P	H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
1	1	R - OFFICE 514C	20 A	1				0.72	0					--	--	--	1	20 A	EXISTING	2	--
2	3	MECH VAV CONTROLS	20 A	1						0.5	0			--	--	--	1	20 A	EXISTING	4	--
1	5	R - CLINIC 515	20 A	1								0.9	0	--	--	--	1	20 A	EXISTING	6	--
2	7	R - HALL AND RESTROOM 514J	20 A	1				1.08	0					--	--	--	1	20 A	EXISTING	8	--
1	9	CABINET UNIT HEATER CUH	20 A	1						0.36	0			--	--	--	1	20 A	EXISTING	10	--
--	11	EXISTING	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING	12	--
--	13	EXISTING	20 A	1	--	--	--	0	1.26								1	20 A	R-NORTH OFFICE & EXAM RM	14	1
--	15	EXISTING	20 A	1	--	--	--			0	1.28						1	20 A	R-EAST OFFICE AND JAN.	16	1
--	17	EXISTING	20 A	1	--	--	--					0	0.9				1	20 A	R-SOUTH OFFICES	18	1
--	19	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	20	--
--	21	EXISTING	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING	22	--
--	23	EXISTING	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING	24	--
--	25	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	26	--
--	27	EXISTING	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING	28	--
--	29	EXISTING	20 A	1	--	--	--					0	0	--	--	--	--	--	SPACE	30	--
--	31	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	32	--
2	33	REFRIGERATRO	20 A	1						1	0			--	--	--	1	20 A	EXISTING	34	--
2	35	R - LAB 515K	20 A	1								0.54	0	--	--	--	1	20 A	EXISTING	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
			Total Load:					3.06 kVA		3.14 kVA		2.34 kVA									
			Total Amps:					26.42		27.09		19.50									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	2.06 kVA	100.00%	2.06 kVA		
Receptacles	6.48 kVA	100.00%	6.48 kVA	**TOTAL CONNECTED LOAD:**	8.54 kVA
				TOTAL ESTIMATED DEMAND LOAD:	8.54 kVA
				TOTAL CONNECTED AMPS:	23.70 A
				TOTAL ESTIMATED DEMAND AMPS:	23.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: 1. EXISTING CIRCUIT BREAKER. 2. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE TO MATCH MANUFACTURER AND AIC RATING.

EXISTING PANEL A1 - LOAD SUMMARY

EXISTING LOAD (AS-BUILTS)	22.2 KVA
LOAD REMOVED	- 4.68 KVA
NEW LOAD ADDED	+8.54 KVA
TOTAL	26.06 KVA

AT 208V-3PHASE = 72. 3 AMPS
PANEL BOARD IS ADEQUATE FOR NEW LOADS.

EXISTING PANEL HA - LOAD SUMMARY

EXISTING (4)LAMP FLUORESCENT TROFFER REMOVED FROM EXISTING LIGHTING CIRCUIT AND REPLACED WITH NEW LED TYPE.

NEW LED LIGHTING LOAD ADDED IS LESS THAN LIGHTING LOAD REMOVED.

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 412 3849
tomkalert@gmail.com

SHEET CONTENTS
ELECTRICAL ONE-LINE DIAGRAM

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

REUSE OF DOCUMENTS: THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED ON ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN: Author
CHECKED: Checker
DATE: 06.25.2021
SHEET NO. E4

PLAN ID	2018 IECC SEQUENCE DESCRIPTION:
PLAN ID	**LIGHTING CONTROL SEQUENCE DESCRIPTION:** **NOTES:** **1, {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.** **2, VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.** **3, VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.** **4, VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.**
{LC1}	Sequence: Switched lights are controlled in this space. ON: The normal lights turn on by the central schedule. Local over-ride switches or occupancy sensors shall provide 120 minutes of lights on. OFF: The normal lights turn off by the central time clock sweep.
{LD1}	Sequence: Dimmed lights are vacancy controlled in this space. ON: The lights turned on using a wall control. ADJUST: The dimming luminaires are raised / lowered using a controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LS8}	Sequence: Switched lights are controlled in this space. ON: The lights turned on using switches. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CFSA - COLOR-FINISH SELECTION BY ARCHITECT				

(MTG) MOUNTING:	RE - RECESSED	(WATT) PER:	FIX - FIXTURE, FT - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED	**(TYPE) LED**	RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE	LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET	TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL	OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)	DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED

(TYPE) DRIVER:			
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP...	MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING	REM - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING	O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LIGHTING [16510 26 51 00] [AND EMERGENCY LIGHTING EQUIPMENT 16535 26 52 00] FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

				DIMENSIONS				WATT		LED		DRIVER		
ITEM	DESCRIPTION	L/L	MTG	L	W	H	DIA.	ANSI WATTS	PER	TYPE	ABSOLUTE LUMENS (MIN)	VOLTS	TYPE	APPROVED MANUFACTURER
D6	6" DOWN LIGHT, WIDE DISTRIBUTION, SEMI SPECULAR REFLECTOR FINISH, 3500K, 80CRI	SS	RE			9 1/2"	6"	12 W	FIX	LED	1000	277 V	0-10V	PRESCOLITE LTR-6R
F2	RECESSED LED EDGE LIT FLAT PANEL 2'x2', SATIN WHITE LENS, 3500K, 80CRI	A	RE	2'-0"	2'-0"	4 1/2"		41 W	FIX	LED	4302	277 V	0-10V	COLUMBIA CFP
F4	RECESSED LED EDGE LIT FLAT PANEL 2'x4', SATIN WHITE LENS, 3500K, 80CRI,	A	RE	4'-0"	2'-0"	4 1/2"		40 W	FIX	LED	4307	277 V	0-10V	COLUMBIA CFP
W1	8" WALL MOUNTED CYLINDER, DOWN LIGHT ONLY, WIDE DISTRIBUTION, CLEAR ALZARK REFELECTOR, MATTE BLACK FINISH, INTERIOR DRY/DAMP, 3500K, 80CRI	O	WL	4"	4"	9"		37 W	FIX	LED	2600	277 V	0-10V	CONTECH LIGHTING - CYL8 SERIES
W2	4' WALL MOUNTED LINEAER LENSED STRIP LIGHT FIXTURE, 3500K	A	WL	4'-0"	6"	6"		30 W	FIX	LED	3656	277 V	0-10V	COLUMBIA ESL
X	SINGLE-FACE DIE-CAST ALUMINUM EXIT SIGN, WHITE BODY, GREEN LETTERS, UNIVERSAL ARROWS/MOUNTING	O	O	1'-1"	2"	9"		4 W	FIX	LED	L.E.D.	277 V	LED	DUAL LITE SE

MECHANICAL CONNECTION SCHEDULE

TAG NAME	Discription	VOLTAGE	POLES	APPARENT LOAD	FEEDER SIZE	DISCONNECT/FUSE	NOTES
CUH	CABINET UNIT HEATER, 1/10HP	120 V	1	0.36 kVA	(2#12+#12G)1/2"C	MANUAL DISCONNECT	PROVIDED WITH 120V MANUAL DISCONNECT WITH T-STAT BY MECHANICAL CONTRACTOR.
EF-01	EXHAUST FAN, 1/4 HP	120 V	1	0.67 kVA	(2#12+#12G)1/2"C	INTEGRAL	
SD	SMOKE DAMPER	120 V	1	0.2 kVA	(2#12+#12G)1/2"C	-	COORDINATE FINAL LOCATION WITH MECHANCIAL CONTRACTOR.
VAV	VARIABLE AIR VOLUME	120 V	1	0.5 kVA	(2#12+#12G)1/2"C	-	PROVIDE 120V FOR CONNECTION OF VAV CONTROLS. FINAL CONNECTONS TO BE PROVIDED BY MECHANCIAL CONTROLS CONTRACTOR.

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
ELECTRICAL DETAILS AND SCHEDULES

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN: AGG
CHECKED: MHM
DATE: 06.25.2021
SHEET NO. E5

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

VIEW KEY

NAME — LEVEL NAME
10' - 0" — HEIGHT ABOVE PROJECT 0' - 0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME

NORTH — 1 — **VIEW NAME** — 1/8" = 1'-0" — PLAN OR DETAIL SCALE

SIM — 1 — M101 — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON — T101
SIM — 1 — 4 — 2 — 3

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
C#-WAP	SC-IO-C	WIRELESS ACCESS POINT WITH ENCLOSURE (CEILING)	1.
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1.
S1	PA-S-C	FACILITY PAGING SPEAKER - ACCESSIBLE CEILING SPACES	.
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	2.
CR1	AC-CR1-W	SECURITY CREDENTIAL READER (WALL) TYPE 1	.
EDR	AC-EDR-UC	SECURITY ELECTRONIC DOOR RELEASE (UNDERCOUNTER)	.
DIAMETERø C		CONDUIT	
		CONDUIT DOWN	
		CONDUIT UP OR UP/DOWN	
		CONDUIT SLEEVE	
		CONTINUATION	

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
4. REFER TO RISERS ON SHEET(S): T2.

TECHNOLOGY SYMBOL NOTES:

1. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T3 FOR ADDITIONAL INFORMATION.
2. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T3 FOR ADDITIONAL INFORMATION.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
TR-#	TELECOMMUNICATIONS ROOM

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TECHNOLOGY GENERAL NOTES:

1. ###-### INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
2. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H — MOUNT ORIENTED HORIZONTALLY
- L — MOUNT IN CASEWORK
- M — MOUNT IN MODULAR FURNITURE
- S — MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
9. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

TECHNOLOGY SHEET INDEX

T0	TECHNOLOGY COVER SHEET
T1	TECHNOLOGY DEMOLITION AND NEW PLANS
T2	TECHNOLOGY DETAILS
T3	TECHNOLOGY SCHEDULES

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) | 412 | 3849
tomkalert@gmail.com

SHEET CONTENTS
TECHNOLOGY COVER SHEET

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RISE OF DOCUMENTS: THE KCG | AND DESIGN INCORPORATED DRAWING, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION BY KCG | LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

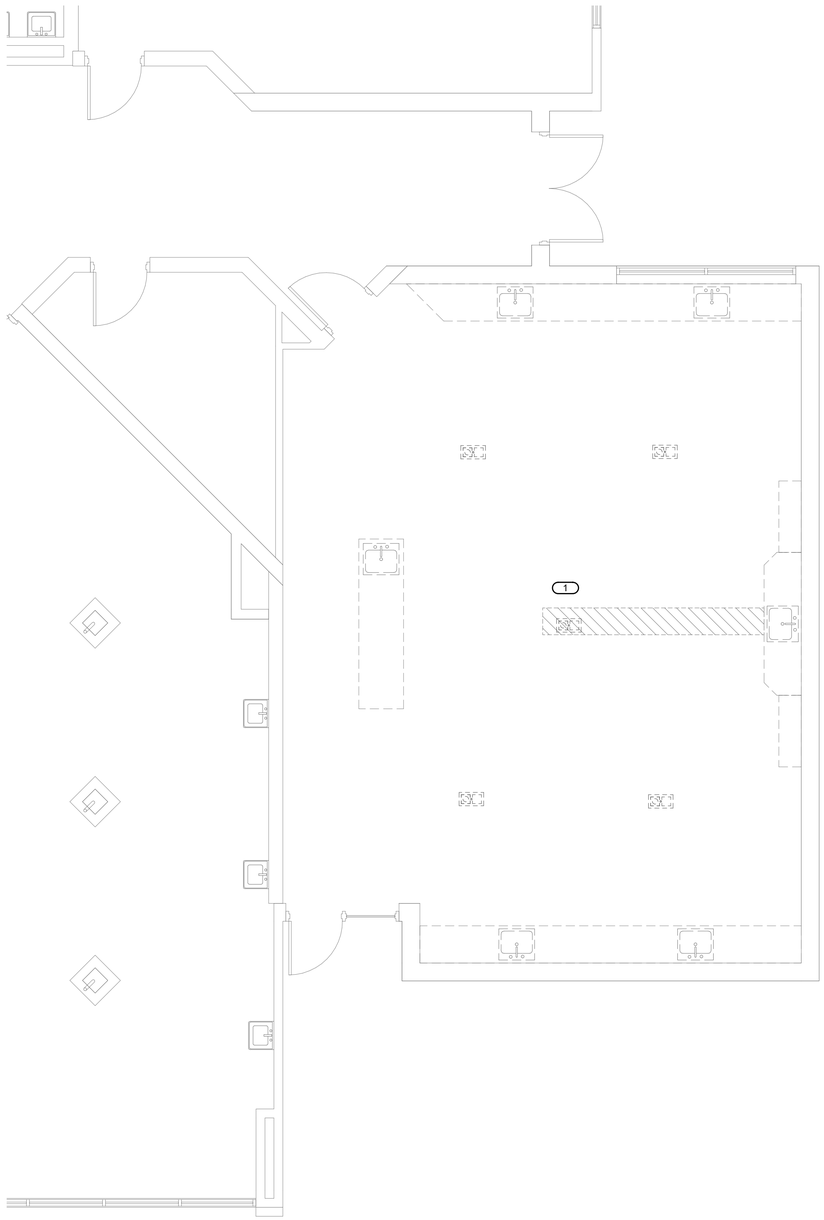
REVISIONS

DRAWN: ACJ
CHECKED: PMM
DATE: 06.25.2021
SHEET NO. T0

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3



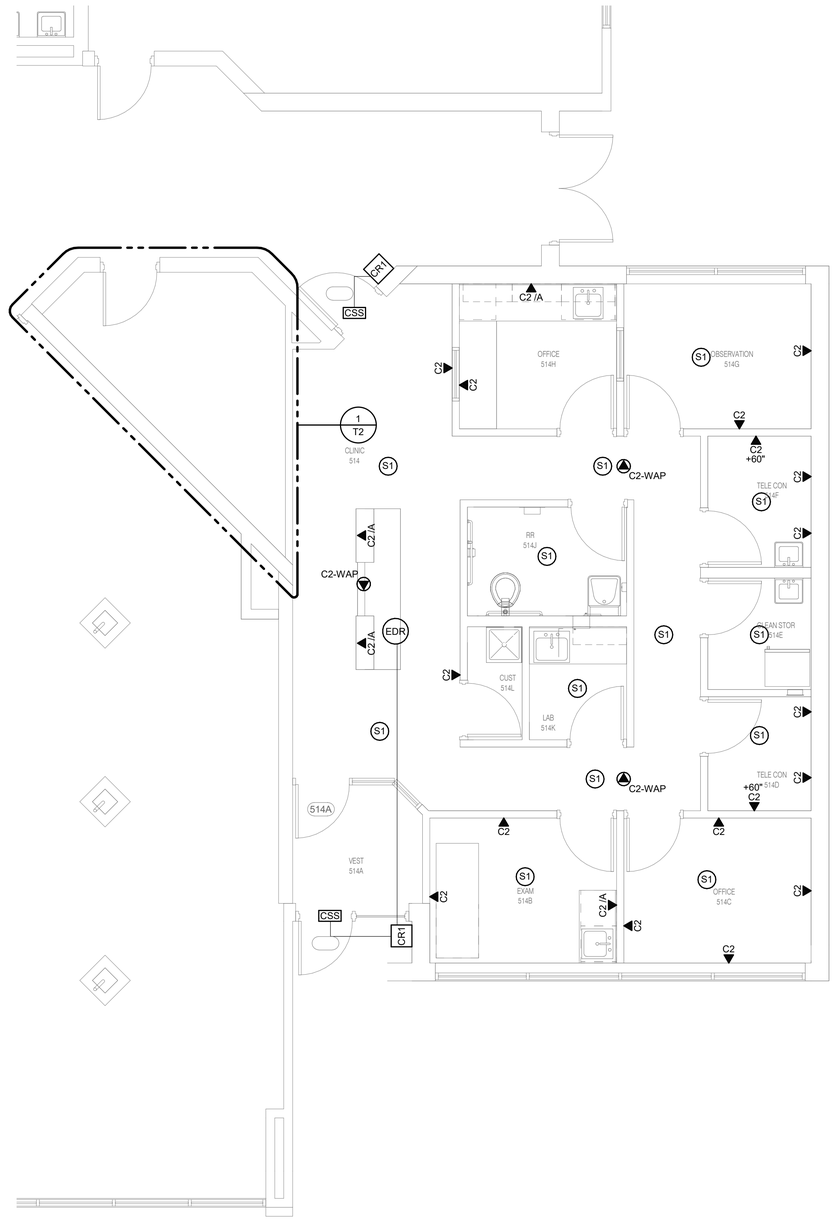
NORTH

1 TECHNOLOGY DEMOLITION PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. DEMO TECHNOLOGY SYSTEMS DEVICES AND CABLING WITHIN THIS SPACE. TURN OVER ALL DEVICES TO OWNER.



NORTH

2 TECHNOLOGY NEW PLAN

1/4" = 1'-0"

KEYNOTES: #

1. ROUTE CABLING IN CONDUIT THROUGH CASE WORK TO ACCESSIBLE CEILING SPACE.

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
(970) 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
TECHNOLOGY DEMOLITION AND NEW PLANS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RULE OF DOCUMENTS: THE IDEAS AND DESIGN INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

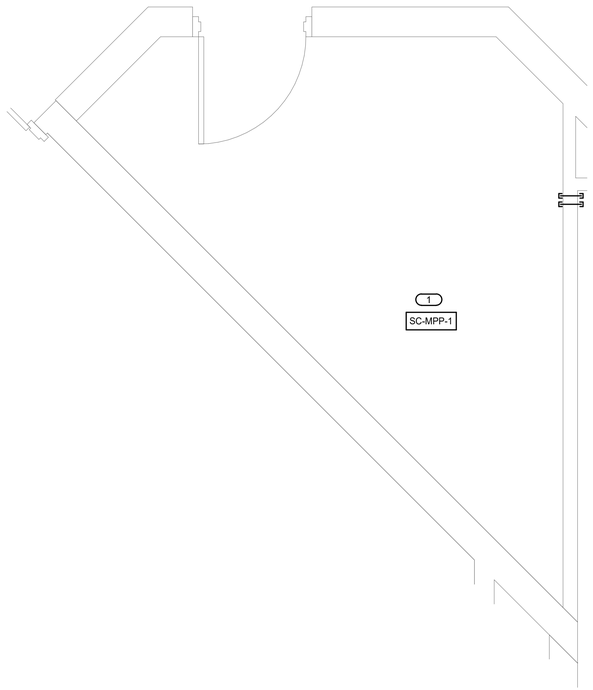
REVISIONS

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

DRAWN: ACJ
CHECKED: PMM
DATE: 06.25.2021
SHEET NO. T1

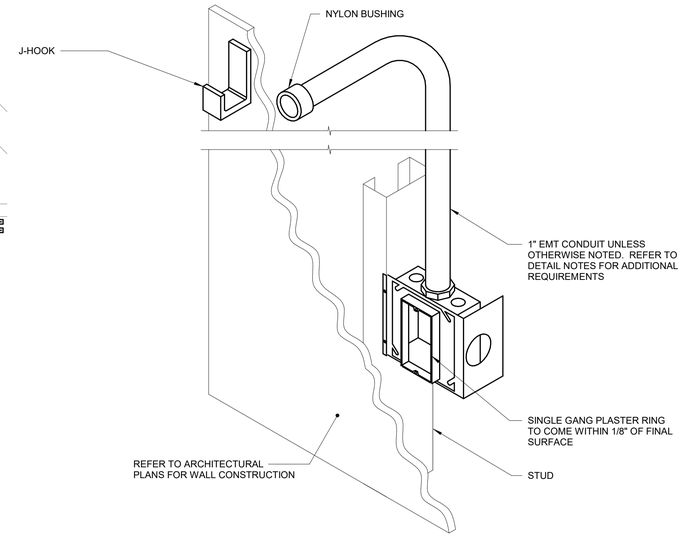


1 EXISTING EQUIPMENT ROOM ENLARGEMENT

1/2" = 1'-0"

KEYNOTES: (#)

1. PROVIDE NEW PATCH PANEL TO BE INSTALLED IN EXISTING TELECOMMUNICATION EQUIPMENT RACK.

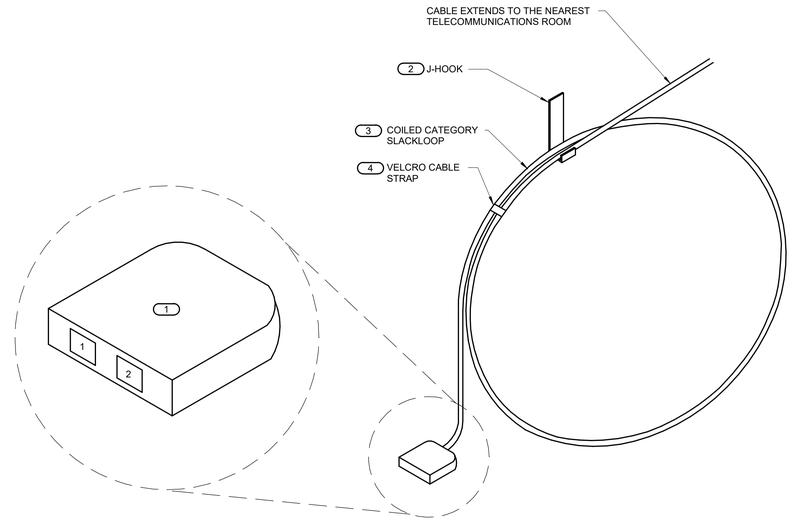


2 TECHNOLOGY ROUGH-IN TO J-HOOK DETAIL

NO SCALE

NOTES:

1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



3 ABOVE CEILING INFORMATION OUTLET DETAIL

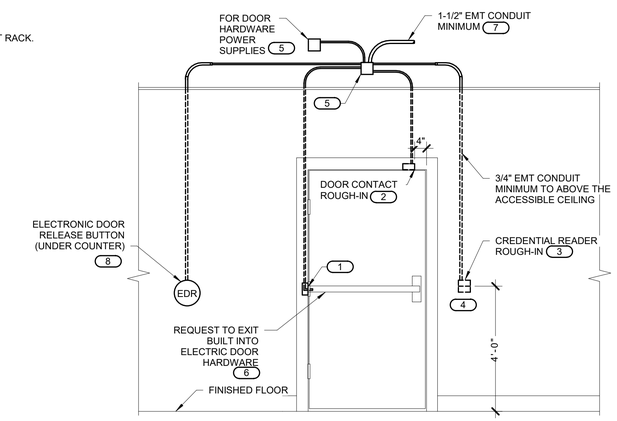
NO SCALE

NOTES:

1. THIS DIAGRAM MAY NOT REPRESENT THE QUANTITY OF CABLES TO EACH INFORMATION OUTLET JUNCTION BOX. REFER TO THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE ON T-600 FOR ADDITIONAL INFORMATION.
2. ALL DEVICES ARE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.

KEYNOTES: (#)

1. 2-PORT SURFACE MOUNT BOX. REFER TO THE INFORMATION OUTLET SCHEDULE ON T-600 AND EQUIPMENT LIST ITEM SC-IO-C FOR ADDITIONAL INFORMATION. THE BOX WILL BE SUPPORTED BY THE J-HOOK AND SUSPENDED.
2. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
3. REFER TO THE INFORMATION OUTLET SCHEDULE ON T3 FOR SLACK LOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
4. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVER 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF 4 STRAPS WILL BE INSTALLED.



DOOR FRAME ROUGH-IN DIAGRAM
(ALL SINGLE DOORS)

4 CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL

NO SCALE

NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
3. ALL CABLING IN WALLS SHALL BE INSTALLED IN EMT CONDUIT. NO SURFACE MOUNTED CONDUIT ALLOWED.
4. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. REFER TO THE CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T3 FOR ADDITIONAL INFORMATION.
7. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. ELECTRIFIED HINGE. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
3. DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS.
4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX TO THE MAIN TELECOM ROOM.
5. 6"X6"X4" JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
6. PROVIDE CONNECTION FOR THE REQUEST TO EXIT SENSOR. REFER TO THE CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T3 FOR DOORS THAT REQUIRE THIS ROUGH-IN.
7. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX TO CLOSEST ACCESSIBLE CEILING SPACE.
8. CONDUIT SHALL ROUTE FROM THE ELECTRONIC DOOR RELEASE TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX TO THE MAIN TELECOM ROOM.

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN: ACJ
CHECKED: PMM
DATE: 06.25.2021
SHEET NO.: T2

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
TECHNOLOGY DETAILS

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

REUSE OF DOCUMENTS: THE IDEAS AND DESIGNS INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION BY KCG | LLC.

TECHNOLOGY EQUIPMENT SCHEDULE

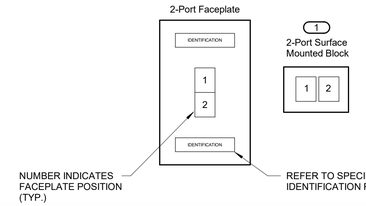
THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

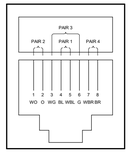
CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE...

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR1-W	CARD READER. PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE FOR ADDITIONAL INFORMATION. CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION. ADD TO EXISTING PCSC SYSTEM. PROVIDE ONE LINC-NXG LICENCE.	PCSC IQ 1000 HID PR40
AC-EDR-S	ACCESS CONTROL ELECTRONIC DOOR LOCK, SURFACE MOUNT. UNDER COUNTER.	ASSA ABLOY TS-18 OR EQUAL
PA-S1-C	FACILITY PAGING SPEAKER, CEILING MOUNT. PROVIDE BACKBOX AND TILE BRIDGE AS REQUIRED IN ACCESSIBLE CEILING INSTALLATIONS. PROVIDE CABLE BACK TO PA SYSTEM AMPLIFIER IN TR ROOM. ALL TO BE CONNECTED TO GENERAL PAGING ZONE FOR ALL PAGE. FIELD VERIFY PRIOR TO ORDERING.	BOGEN (BASIS OF DESIGN) S86T725PG8WVK OR PRE-APPROVED EQUAL
SC-IO-C	INFORMATION OUTLET, CEILING MOUNT. 2 PORT SURFACE MOUNTED BLOCK AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE. REFER TO INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION INFORMATION. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON FOR ADDITIONAL INFORMATION. PROVIDE 20' COIL OF UTP CABLE AT WIRELESS OUTLET LOCATION. REFER TO THE SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	SIEMON MX-SM2-02 (WHITE) MX5-F02 (WHITE)
SC-IO-W	INFORMATION OUTLET, WALL MOUNT. 2 PORT COVERPLATE AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE, REFER TO INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION INFORMATION. " # "INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS. REFER TO INFORMATION OUTLET SCHEDULE FOR ADDITIONAL INFORMATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING AND A 1" CONDUIT TO THE ACCESSIBLE CEILING WITH NYLON BUSHING. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	SIEMON MX-FP-S-2-02 (WHITE) MX5-F02 (WHITE)
SC-MPP-1	MODULAR PATCH PANEL, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	SIEMON HD5-48

INFORMATION OUTLET SCHEDULE

SINGLE GANG WALLPLATES





ANSI/TIA/EIA T568B
PIN/PAIR ASSIGNMENT

NOTES:
1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICAITONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES: (#)
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY.

LEGEND

DATA	CAT 5E RJ-45

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION						NOTES
		POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	
C2	2	DATA	DATA					
C2-WAP	2	DATA	DATA					(1) PROVIDE TWO PORT SURFACE MOUNTED BLOCK.

CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

GENERAL NOTES:
1. ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE ON FOR CREDENTIAL READER TYPE INFORMATION.
2. REFER TO SPECIFICATIONS SECTION 08 71 00 FOR DOOR HARDWARE SETS AS IT RELATES TO THIS SCHEDULE.

	CREDENTIAL READER	INTEGRATION		REQUEST TO EXIT	DOOR HARDWARE		OTHER (REFER TO NOTES)	
DOOR #	CREDENTIAL READER TYPE	LOCKED BY EMERGENCY DURESS SEQUENCE	REMOTE UNLOCK VIA PUSHBUTTON	INTERNAL ELECTRIFIED HARDWARE CONNECTION	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MONITOR DOOR POSITION SWITCH SPDT	SCHEDULE BASED LOCKING	NOTES
514	CR1	•		•	•	•	•	
514A	CR1	•	•	•	•	•	•	

KCG | LLC
KALERT | Consulting Group, LLC
2429 Stonecrest Drive
Fort Collins, Colorado 80521
970 | 412 | 3049
tomkalert@gmail.com

SHEET CONTENTS
TECHNOLOGY SCHEDULES

LINCOLN HEALTH CLINIC
1600 LANCER DRIVE
FORT COLLINS, CO 80521

RIGHT OF DOCUMENTS
THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF KCG | LLC AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION OF KCG | LLC.

100% CONSTRUCTION DOCUMENTS

NO.	BY	DESCRIPTION	DATE

REVISIONS

DRAWN: ACJ
CHECKED: PMM
DATE: 06.25.2021
SHEET NO. T3

IMEG
7600 ORCHARD ROAD, SUITE 250-S
GREENWOOD VILLAGE, CO 80111-2539
303.796.6000 FAX: 303.796.6099
www.imegcorp.com
PROJECT # 21001849.00

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3