Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

ABBREVIATIONS

A		FL.	FLASHING	PLYW'D	PLYWOOD
AC	ACOUSTIC			P.S.I.	POUND PER SQUARE INCH
ADD	ADDENDUM	G		P.S.F.	POUNDS PER SQUARE FOOT
A/C	AIR CONDITIONING	GALV.	GALVANIZED		
ALT.	ALTERNATE	GA.	GAUGE	R	
AL	ALUMINUM	G.C.	GENERAL CONTRACTOR	RAD.	RADIUS
A.B.	ANCHOR BOLT	G.S.N.	GENERAL STRUCTURAL NOTES	REC.	RECOMMENDATION
&	AND			REG.	REGISTER
ARCH	ARCHITECT(URAL)	GL.	GLASS	REQ'D	REQUIRED
ASP.	ASPHALT	GD.	GRADE	R.A.	RETURN AIR
@	AT	GRL.	GRILLE	REV.	REVISION
		GRD.	GROUND	R.D.	ROOF DRAIN
B		GYP.	GYPSUM	RFG.	ROOFING
BSMT.	BASEMENT			RM.	ROOM
B.M.	BENCHMARK	H		RGH.	ROUGH
BLKG.	BLOCKING	HDW.	HARDWARE	RND.	ROUND
BD.	BOARD	HDWD.	HARDWOOD		
B.O.	BOTTOM OF	HTR.	HEATER	S	
BLDG.	BUILDING	HT.	HEIGHT	SCR.	SCREW
		H.P.	HIGH POINT	SECT.	SECTION
C		H.M.	HOLLOW METAL	SEL.	SELECT
CAB'T	CABINET	HORIZ.	HORIZONTAL	SHT.	SHEET
C.I.P.	CAST IN PLACE	H.B.	HOSE BIB	SIM.	SIMILAR
C.B.	CATCH BASIN	H.W.	HOT WATER	SLDG.	SLIDING
CLG.	CEILING	HR.	HOUR	SM.	SMOOTH
CL	CENTER LINE			SPEC.	SPECIFICATION
C.T.	CERAMIC TILE	I		SPL.	SPLASH
CH	CHANNEL	IN.	INCH	SQ.	SQUARE
C.O.	CLEAN OUT	I.D.	INSIDE DIAMETER	S.S.	STAINLESS STEEL
CLR.	CLEAR	INSUL.	INSULATION	STD.	STANDARD
CL	CLOSET	INT.	INTERIOR	STRUC.	STRUCTURE
COL.	COLUMN	INV.	INVERT	S.A.	SUPPLY AIR
CONC.	CONCRETE			SUSP.	SUSPENDED
CMU	CONCRETE MASONRY UNIT	J		SW.BD.	SWITCHBOARD
COND.	CONDITION	JAN.	JANITOR		
CONN.	CONNECTION	JT.	JOINT	T	
CONST.	CONSTRUCTION	JST.	JOIST	TELCO	TELEPHONE COMPANY
CONT	CONTINUOUS			T.G.	TEMPERED GLASS
CJ	CONTROL JOINT	L		T&G	TONGUE & GROOVE
		LAM.	LAMINATED	T&B	TOP & BOTTOM
D		LDG.	LANDING	T.O.	TOP OF
D.P.	DAMP PROOFING	LAV.	LAVATORY	T.O.C.	TOP OF CURB
D.B.	DECK BEARING	LT.	LIGHT	T.O.D.	TOP OF DECK
DIAG.	DIAGONAL	L.W.C.	LIGHT WEIGHT CONCRETE	T.O.P.	TOP OF PARAPET
DIA.	DIAMETER	LVR.	LOUVER	TYP.	TYPICAL
DIM.	DIMENSION				
DISP.	DISPENSER	M		U	
DWL.	DOWEL	M.B.	MACHINE BOLT	U.N.O.	UNLESS NOTED OTHERWISE
DN.	DOWN	MFR.	MANUFACTURER		
D.S.	DOWN SPOUT	M.O.	MASONRY OPENING	V	
D.W.V.	DRAINAGE WASTE VENT	MAT'L	MATERIAL	V.	VENT
DWG.	DRAWING	MAX.	MAXIMUM	V.T.R.	VENT THROUGH ROOF
		MECH.	MECHANICAL	VERT.	VERTICAL
E		MTL.	METAL	V.G.	VERTICAL GRAIN
EA.	EACH	MIN.	MINIMUM	VEST.	VESTIBULE
E.W.C.	ELEC. WATER COOLER	MLDG.	MOLDING	V.C.T.	VINYL COMPOSITION TILE
EL.	ELECTRIC	MULL.	MULLION	V.C.P.	VITREOUS CLAY PIPE
ELEV.	ELEVATION				
EQ.	EQUAL	N		W	
EQUIP.	EQUIPMENT	N.G.	NATURAL GRADE	W.C.	WATER CLOSET
EXH.	EXHAUST	NOM.	NOMINAL	W.H.	WATER HEATER
EXIST.	EXISTING	N/A	NOT APPLICABLE	W.P.	WATER PROOF
E.J.	EXPANSION JOINT	N.I.C.	NOT IN CONTRACT	W.R.	WATER RESISTANT
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE	W.W.F.	WELDED WIRE FABRIC
				W.F.	WIDE FLANGE
F		O		WDW.	WINDOW
FT.	FEET	O.C.	ON CENTER	W/	WITH
FIN.	FINISH(ED)	OPNG.	OPENING	W/O	WITHOUT
F.E.	FIRE EXTINGUISHER	O.D.	OUTSIDE DIAMETER	WD.	WOOD
F.E.C.	FIRE EXTINGUISHER CABINET	O.F.S.	OVERFLOW SCUPPER		
FIXT.	FIXTURE	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED		
		P			
		PT.	PAINT		
		PTD.	PAINTED		
		PR.	PAIR		
		PNL.	PANEL		
		d	PENNY		
		P.L.	PLASTIC LAMINATE		
		PL.	PLATE		
		PLBG.	PLUMBING		
		P.C.	PLUMBING CONTRACTOR		

MATERIALS / SYMBOLS

- PLYWOOD (SECTION)
- WOOD MOLDING
- CONCRETE (SECTION)
- GYPSUM BOARD (SECTION)
- TILE (PLAN)
- COMPACTED GRAVEL (SECTION)
- COMPACTED SUBGRADE
- STEEL FRAMING (PLAN, SECTION)
- CMU (PLAN, SECTION)
- BRICK VENEER (PLAN, SECTION)
- RIGID INSULATION (SECTION)

- CENTERLINE
- BUILDING SECTION FLAG (1 / AEXXX / SIM)
- WALL SECTION / EXTERIOR ELEVATION (1 / AEXXX / SIM)
- INTERIOR ELEVATION (1 / AEXXX)
- DETAIL (1 / AEXXX / SIM)
- GRID HEAD (A)
- WINDOW TAG (1i)
- DOOR TAG (101A)
- ROOM TAG (ROOM NAME / 101)
- WALL TYPE (1)
- KEYNOTE TAG (1)
- REVISION TAG (1)
- WINDOW GLAZING TAG (G3)
- ELEVATION, (DATUM) (ELEVATION NAME)
- DRAWING TITLE (1 / AEXXX / VIEW NAME / SCALE SCALE)

DESIGN TEAM

ARCHITECT

JRCA, Architects
577 South 200 East
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Principal-in-charge: Jim Child, AIA
Contact: Scott Holmes
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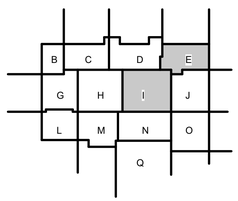
PROJECT LOCATION



BUILDING 5, LOWER LEVEL 2

DRAWING INDEX

GENERAL NOTES:

1. WHILE THE DOCUMENTS ARE SEPARATED BY SHEET NUMBERS FOR CONVENIENCE IN REFERENCING DOCUMENTATION, SHEET NAMES AND NUMBERS ARE NOT INTENDED TO DEFINE SCOPE. CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK DESCRIBED IN THE ENTIRE PACKAGE.

BIDDING DOCUMENT SET - NOT FOR CONSTRUCTION
01/28/2014

JRCA
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Intermountain Medical Center Dietary Room Service Remodel
5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

100% PERMIT REVIEW 01/24/2020	
△	DATE / REVISION

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

GENERAL INFORMATION

GI101

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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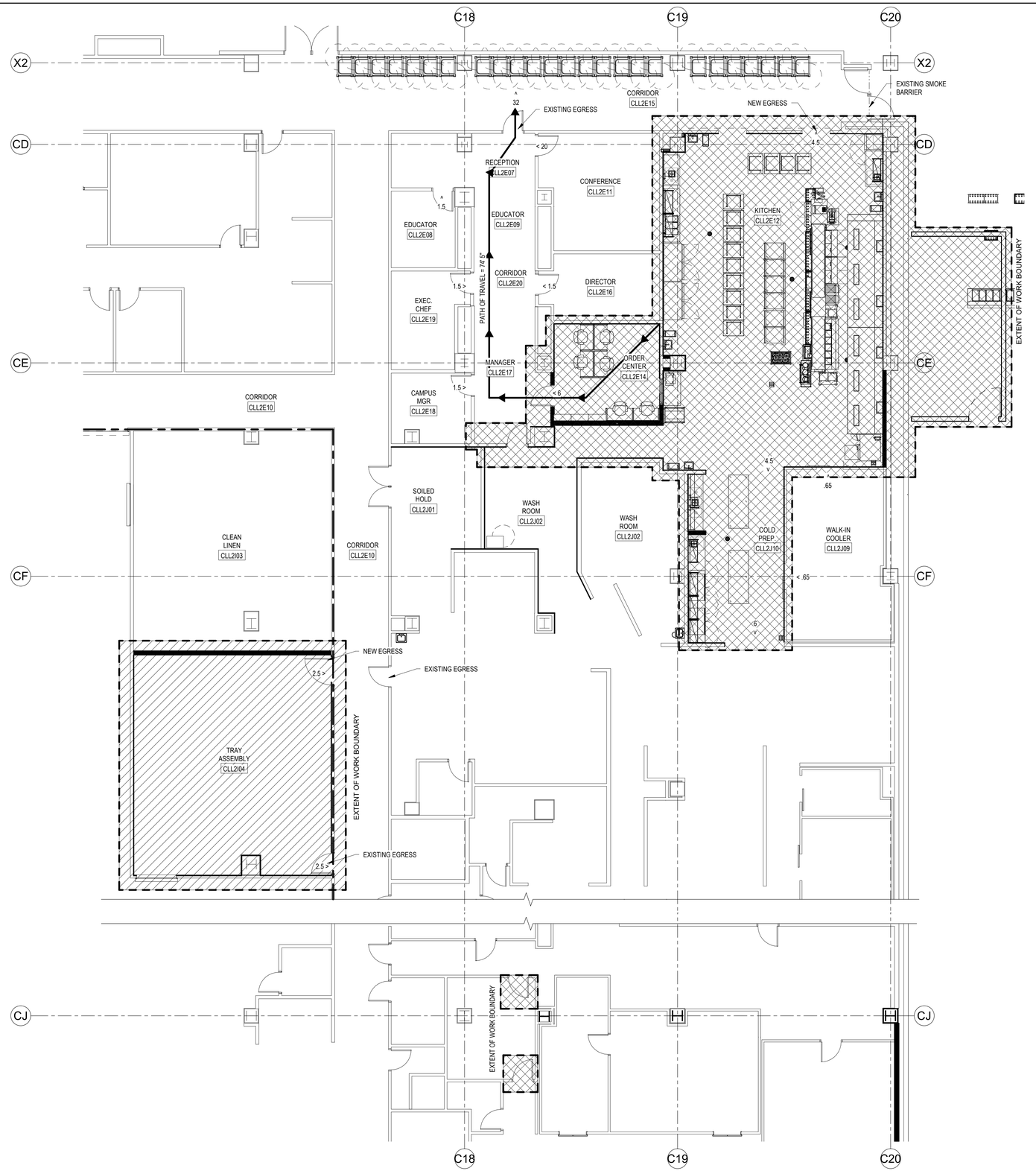
OCCUPANT LOAD SCHEDULE- MAIN LEVEL				
ROOM NAME	ROOM #	AREA	LOAD FACTOR	OCC. LOAD
RECEPTION	CLL2E07	169.6 SF	150	1.1
EDUCATOR	CLL2E08	110.2 SF	150	0.7
EDUCATOR	CLL2E09	89.2 SF		
CONFERENCE	CLL2E11	299.4 SF	15	20.0
KITCHEN	CLL2E12	1,680.2 SF	200	8.4
ORDER CENTER	CLL2E14	225.8 SF	150	1.5
CORRIDOR	CLL2E15	796.0 SF		
DIRECTOR	CLL2E16	170.4 SF	150	1.1
MANAGER	CLL2E17	204.4 SF	150	1.4
CAMPUS MGR	CLL2E18	122.6 SF	100	1.2
EXEC. CHEF	CLL2E19	153.1 SF	150	1.0
CORRIDOR	CLL2E20	75.3 SF		
CLEAN LINEN	CLL2I03	971.2 SF	0	
TRAY ASSEMBLY	CLL2I04	971.1 SF	200	4.9
SOILED HOLD	CLL2J01	292.2 SF		
WASH ROOM	CLL2J02	702.7 SF		
WALK-IN COOLER	CLL2J09	381.8 SF	300	1.3
COLD PREP.	CLL2J10	372.5 SF	200	1.9
Grand total: 18				44.5



A3
GI111
MAIN LEVEL FLOOR PLAN
SCALE 1/8" = 1'-0"

CODE ANALYSIS

Project: Intermountain Medical Center Dietary Services
Project Address: 5121 S. Cottonwood Street, Murray UT. 84107
Municipality/Jurisdiction: Murray, City
Owner:

Applicable Codes: 2018 International Building Code
2018 International Plumbing Code
2018 International Mechanical Code
2017 National Electric Code
NFPA 101 (Current Edition)
ANSI A117.1 (Current Edition)
2010 ASHRAE 90.1

Construction Type (circle):

(I-A) I-B II-A II-B III-A III-B IV-A IV-B V-A V-B

Occupancy Group(s): I - 2
Mixed Use (circle): (YES) NO

Entire building is equipped with automatic fire suppression system: Yes

Chapter 4 - Special Occupancies:
Chapter 407 - Group I-2
407.5 Smoke barriers shall be provided to separate every story.
407.5.2 Travel distance from any point within a smoke compartment to a smoke barrier door shall not exceed 200 feet.
407.5.5 Horizontal assemblies supporting smoke barriers shall be designed to resist the movement of smoke. Comply with IBC chapter 7 for horizontal smoke barriers.

Non-Separated Occupancies as per IBC 508.3 (circle): YES (NO)
Separated Occupancies as per IBC 508.4 (circle) (YES) NO

Section 508.4 - Separation(S)
A / B - 1 hr
A / S-2 - No Requirement
B / S-2 - 1 hr
S-1 / S-2 - 1 hr
F-1 / B - No Requirement
F-1 / S-1 - No Requirement
B / S-1 - No Requirement
F-1 / S-2 - 1 hr

Chapter 6 - Fire Resistance Rated Construction
Table 601 - Type IIB does not require fire resistance for building elements.
Table 602 - Fire separation is greater than 30 feet, no additional fire resistance is required

Chapter 7 - Fire and Smoke Protection
Section 707 - Fire barriers required for separated uses per Table 508.4
Section 707.6 - Openings shall be protected per Section 716
Section 707.7 - Penetrations shall comply with Section 714
Section 713.14.1 - Elevator lobby not required

Exit Access Travel Distance (Table 1016.2)
A: 250'
B: 300'
F-1: 250'
S-1: 250'
S-2: 400'

Corridor Width (Table1018.2)
Required minimum: 44 inches
Actual minimum: 60 inches

LEGEND:

1 - HOUR BARRIER (EXISTING)
PHASE 1 SCOPE OF WORK
PHASE 2 SCOPE OF WORK

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No. 120681-0301
REGISTERED ARCHITECT
STATE OF UTAH
01/24/2020

BIDDING DOCUEMENTS - NOT FOR CONSTRUCTION

LL2.E CODE ANALYSIS & PHASING PLAN

GI111

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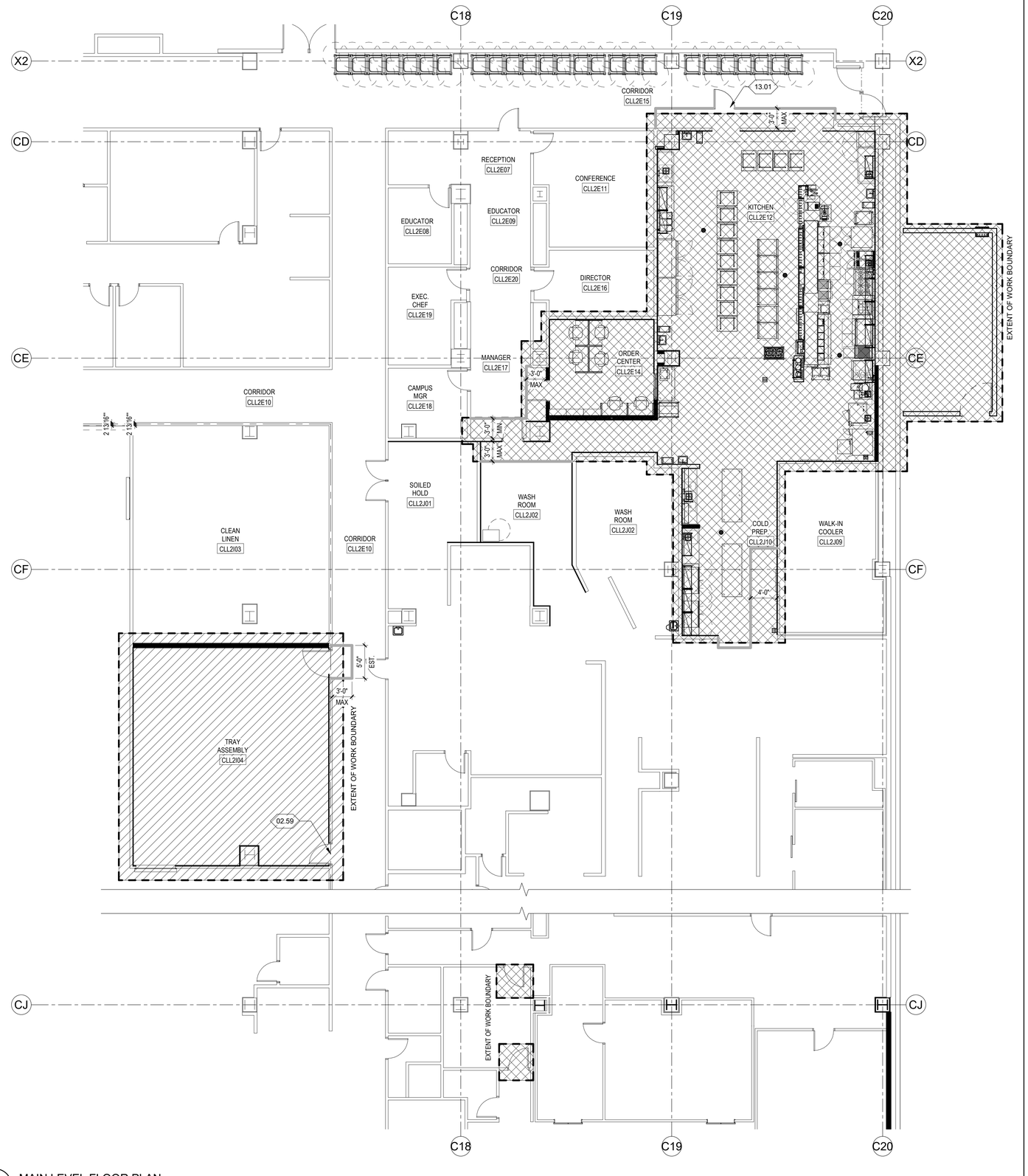

A3
GI112
MAIN LEVEL FLOOR PLAN
SCALE 1/8" = 1'-0"

KEY NOTES:

02.59 EXISTING DOOR ASSEMBLY TO BE USED FOR CONSTRUCTION ACCESS. PRESERVE & PROTECT DOOR DURING CONSTRUCTION, REPAIR POST CONSTRUCTION OR NECESSARY.

13.01 TEMPORARY CONSTRUCTION ACCESS, USE HM DOOR AND FRAME W/ LOCKSET HARDWARE

LEGEND:

TEMPORARY BARRIER, CONSTRUCTION SHALL COMPLY WITH OWNERS REQ.; SPECIFICATIONS AND ICRA AS DOCUMENTED.

PHASE 1 SCOPE OF WORK

PHASE 2 SCOPE OF WORK

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STATE OF UTAH
01/24/2020

TEMPARARY PARTITION BARRIER PLAN

GI112

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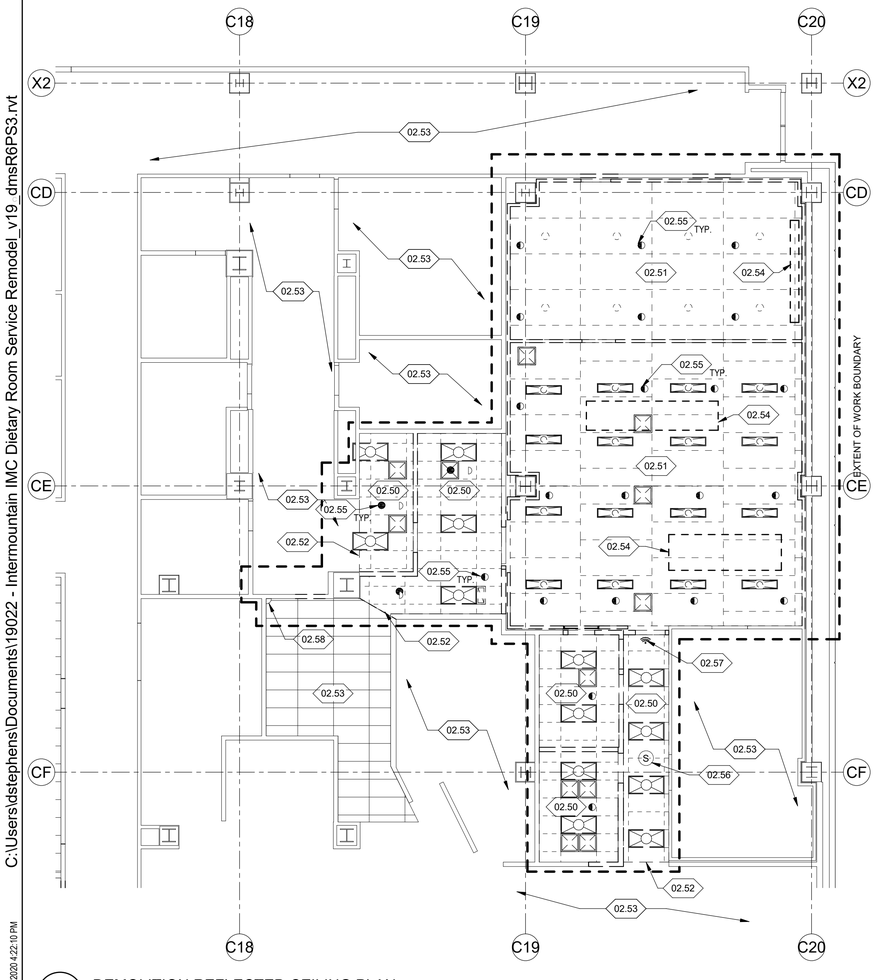


A5 DP101 DEMOLITION REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"

DEMO CEILING PLAN KEY NOTES:

02.50 REMOVE CEILING PANELS AND GRID.

02.51 REMOVE STAINLESS STEEL PANELS AND SUPPORTING COMPONENTS (CEILING).

02.52 EXTENT OF CEILING DEMOLITION.

02.53 EXISTING CEILING SYSTEM TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION.

02.54 DISCONNECT AND REMOVE SURFACE MOUNTED MECHANICAL UNIT. COORDINATE WITH MECHANICAL DRAWINGS (CEILING).

02.55 EXISTING FIRE SUPPRESSION SPRINKLER HEAD, ALTER HEAD AND TRIM TO ACCOMMODATE SPECIFIED CEILING FINISH, TYPICAL ALL LOCATION IDENTIFIED.

02.56 PRESERVE AND PROTECT LAY-IN INTERCOM SPEAKERS, REINSTALL WITH NEW CEILING FINISH SPECIFIED.

02.57 PRESERVE AND PROTECT SURFACE MOUNTED NETWORK APPLIANCE REINSTALL WITH NEW CEILING FINISH SPECIFIED, COORDINATE WORK W/ OWNERS IS DEPARTMENT.

02.58 RELOCATE REFLECTIVE DOME DEVICE W/ NEW CONSTRUCTION (CEILING).

LEGEND:

LAY-IN LIGHTING FIXTURE AND WIRING TO BE REMOVED. COORDINATE W/ ELECTRICAL DRAWINGS.

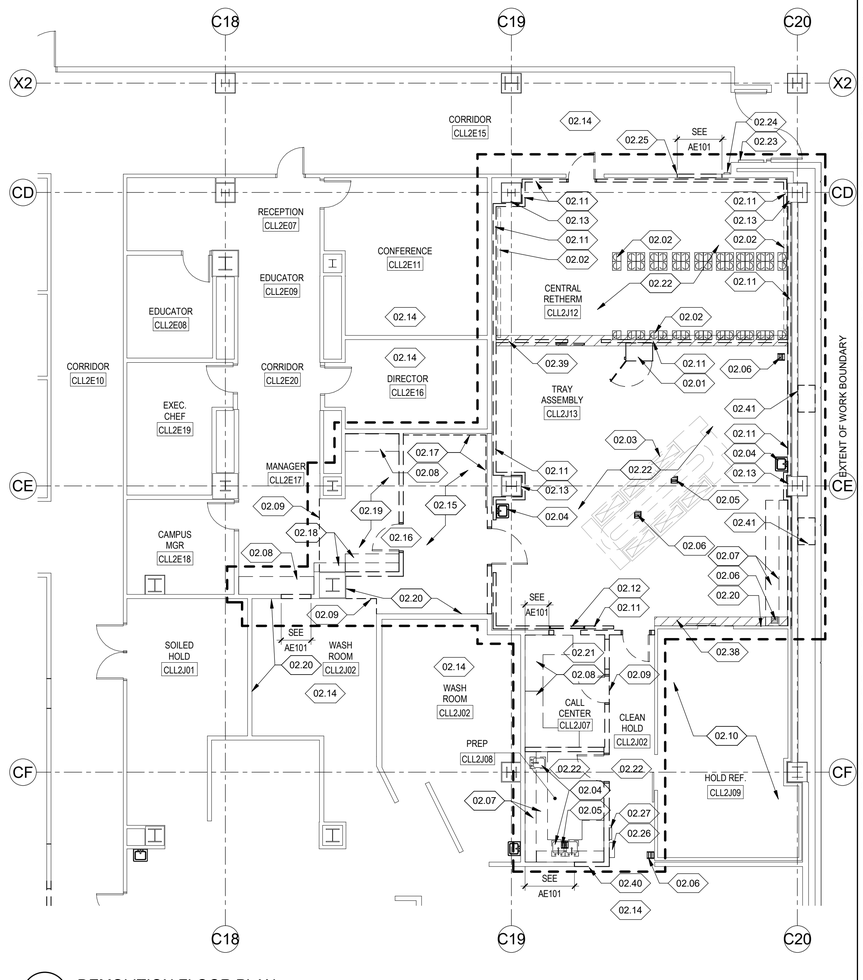
SURFACE 1X4 LIGHTING, FIXTURE AND WIRING TO BE REMOVED. COORDINATE W/ ELECTRICAL DRAWINGS.

SURFACE LIGHTING FIXTURE AND WIRING TO BE REMOVED. COORDINATE W/ ELECTRICAL DRAWINGS.

MECHANICAL AIR DEVICE TO BE REMOVED. COORDINATE W/ MECHANICAL DRAWINGS.

MECHANICAL AIR DEVICE TO BE REMOVED. COORDINATE W/ MECHANICAL DRAWINGS.

EXISTING SPRINKLER HEAD AND TRIM.



A2 DP101 DEMOLITION FLOOR PLAN

SCALE 1/8" = 1'-0"

0" 8' 16'

DEMO GENERAL NOTES:

1. DASHED LINES ON DEMOLITION PLANS INDICATE EXISTING WALLS, CASEWORK, FIXTURES, AND/OR OPENINGS WHICH ARE TO BE REMOVED,UNO. ALL GENERAL DEMOLITION NOTES APPLY TO THIS DRAWING.
2. ALL CONDITIONS AND DIMENSIONS OF THE EXISTING BUILDING WHETHER EXPRESSLY DRAWN OR IMPLIED DO NOT REPRESENT IN-DEPTH FIELD INVESTIGATIONS OR MEASUREMENTS. THE CONTRACTOR IS TO VERIFY AND NOTIFY THE ARCHITECTS OF ANY DISCREPANCIES.
3. THE CONTRACTOR IS TO REVIEW THE COMPLETE DOCUMENT SET AND COORDINATE THE WORK LISTED IN THE DEMOLITION DOCUMENTS WITH THE SCOPE OF THE NEW CONSTRUCTION. ALL DISCREPANCIES WILL BE NOTED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT.
4. THE REMAINDER OF THE BUILDING WILL REMAIN OCCUPIED AND OPERATIONAL DURING THIS CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE TEMPORARY MEANS TO ASSURE CONTINUOUS PROTECTION OF THE OCCUPANTS, THEIR FINISHES, FIXTURES AND OTHER POSSESSIONS FROM INJURY, DAMAGE OR LOSS DUE TO CONSTRUCTION, OR RELATED ACTIVITIES. THE CONTRACTOR IS TO MAINTAIN EXISTING FIRE PROTECTION SYSTEMS, EXITS AND EXIT WAYS, AND ALL OTHER REQUIRED ELEMENTS AT ALL TIMES TO PROVIDE FOR SAFE, SECURE AND LEGAL ACCESS, OCCUPANCY AND EGRESS IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. COORDINATE WITH OWNERS OPERATIONAL NEEDS AND FUNCTIONS PRIOR TO PROCEEDING WITH THE WORK.
5. ALL CORRIDOR SYSTEMS ARE TO BE MAINTAINED AS CLEAR AND ACCESSIBLE MEANS OF EGRESS AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT AND ERECTION OF ALL TEMPORARY PROTECTION FOR MEANS OF EGRESS AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
7. VESTIBLULE DOORS ARE NOT TO BE USED FOR THE REMOVAL OF ANY DEMOLITION OF CONSTRUCTION DEBRIS. DOORS WILL BE MAINTAINED OPERATIONAL FOR USE DURING NORMAL OPERATING HOURS.
8. DO NOT DISTURB, DISRUPT, DAMAGE OR ALTER ANY STRUCTURAL CONDITION OF THE EXISTING BUILDING UNLESS SPECIFICALLY INDICATED WITHIN THESE DOCUMENTS.
9. IN ANY CUTTING, PATCHING OR ALTERATIONS TO THE EXISTING STRUCTURE OR IT'S COMPONENTS MAY BE REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION, THE CONTRACTOR WILL NOTIFY THE ARCHITECT IN WRITING IN ADVANCE, IF SUCH WORK BECOMES NECESSARY.
10. THE EXISTING PERIMETER WALL SYSTEMS ARE NOT TO BE REMOVED. ANY DAMAGE EITHER EXISTING, OR AS A RESULT OF CONSTRUCTION ACTIVITY IS TO BE REPAIRED TO MATCH EXISTING AND ACCEPT NEW CONSTRUCTION WHERE APPLICABLE.
11. COORDINATE DEMOLITION WITH PROJECT PHASING AS SHOWN ON GI111. REVIEW DEMOLITION PLAN WITH ARCHITECT AND OWNER PRIOR TO PROCEEDING WITH THE WORK.
12. SCOPE OF DEMOLITION MAY EXTEND BEYOND LIMIT IDENTIFIED RELATED TO PLUMBING, MECHANICAL, ELECTRICAL AND TECHNOLOGY SYSTEMS. ALL WORK REQUIRED SHALL BE INCLUDED IN CONTRACTORS BASE BID.

DEMO FLOOR PLAN KEY NOTES:

02.01 REMOVE RETHERM CONTROL PANEL ELECTRICAL CIRCUITING TO MAIN ELECTRICAL PANEL.

02.02 REMOVE POWER DOCKING STATION AND ELECTRICAL WIRING AND RACEWAYS TO CONTROL PANEL.

02.03 EXISTING FOOD SERVICE EQUIPMENT TO BE REMOVED BY OWNER.

02.04 REMOVE PLUMBING FIXTURE, COORDINATE W/ PLUMBING DEMOLITION PLANS.

02.05 EXISTING FLOOR SINK TO BE REMOVED, COORDINATE W/ PLUMBING DEMOLITION PLANS.

02.06 EXISTING FLOOR SINK TO REMAIN, COORDINATE W/ PLUMBING DRAWINGS.

02.07 REMOVE COUNTERTOP AND SHELVING UNITS.

02.08 EXISTING FURNISHINGS TO BE REMOVED BY OWNER.

02.09 EXTENT OF FLOOR FINISH DEMOLITION.

02.10 EXISTING WALK-IN COOLER TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION.

02.11 REMOVE INSULATED STAINLESS STEEL PANELING.

02.12 REMOVE OPERABLE WINDOW ASSEMBLY.

02.13 EXISTING COLUMN PROTECTION TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION.

02.14 EXISTING SPACE TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION.

02.15 REMOVE TILE FLOOR FINISH AND WALL BASE, PREPARE SLAB TO RECEIVE SPECIFIED FINISH.

02.16 REMOVE AND RELOCATE DOOR ASSEMBLY, COORDINATE LOCATION FOR RE-USE WITH AE101 & AE601.

02.17 REMOVE STAINLESS STEEL PANELING AND GYP. BOARD TO STUD FRAMING, PREPARE FRAMING TO RECEIVE SPECIFIED FINISH.

02.18 REMOVE EXISTING MILLWORK.

02.19 REMOVE CARPET FLOOR FINISH AND WALL BASE, PREPARE SLAB TO RECEIVE SPECIFIED FINISH.

02.20 EXISTING STAINLESS STEEL WALL FINISH TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION.

02.21 REMOVE LVT FLOOR FINISH AND WALL BASE, PREPARE SLAB TO RECEIVE SPECIFIED FINISH.

02.22 EXISTING QUARRY TILE FLOOR FINISH TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION. REMOVED COVED BASE TILE AND PERIMETER TILE WIDTH, SAW CUT GROUT JOINT.

02.23 EXISTING FDC CONTROL ACCESS TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION.

02.24 EXISTING FIRE ALARM DEVICE TO REMAIN.

02.25 MODIFY WALL GUARD AT NEW OPENING W/ RETURN WALL END CAP.

02.26 REMOVE ELECTRICAL DISCONNECT GEAR AND ASSOCIATED RACEWAY AND WIRING. OWNER WILL MOVE DISCONNECTED KITCHEN EQUIPMENT.

02.27 REMOVE RECESSED FIRE EXTINGUISHER AND CABINET.

02.38 REMOVE 12" MIN. TILE FLOORING, SAWCUT AND REMOVE CONCRETE SLAB, REMOVE RIGID INSULATION TO ISOLATE THERMAL PROTECTION. POW BACK SBB AND REINSTALL TILE.

02.39 REMOVE QUARRY FLOOR TILE TO NEAREST GROUT JOINT. REINSTALL TILE AFTER DEMOLITION UTILITIES. COORDINATE W/ FINISH PLAN.

02.40 REMOVE CONCRETE CURB BELLOW WALL ASSEMBLY FLUSH W/ ADJACENT SLAB.

02.41 SAWCUT & REMOVE CONCRETE WALL FOR EXHAUST LINE PATHWAY COORDINATE OPENING SIZE WITH MECHANICAL DRAWINGS. SEE STRUCTURAL DRAWINGS FOR OPENING REINFORCEMENT REQUIREMENTS.

DEMO FLOOR PLAN LEGEND:

DOOR ASSEMBLY TO BE REMOVED

WALL ASSEMBLY TO BE REMOVED

EXISTING WALL ASSEMBLY TO REMAIN, PRESERVE AND PROTECT DURING CONSTRUCTION

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JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

LL2.E DEMOLITION PLANS

DP101

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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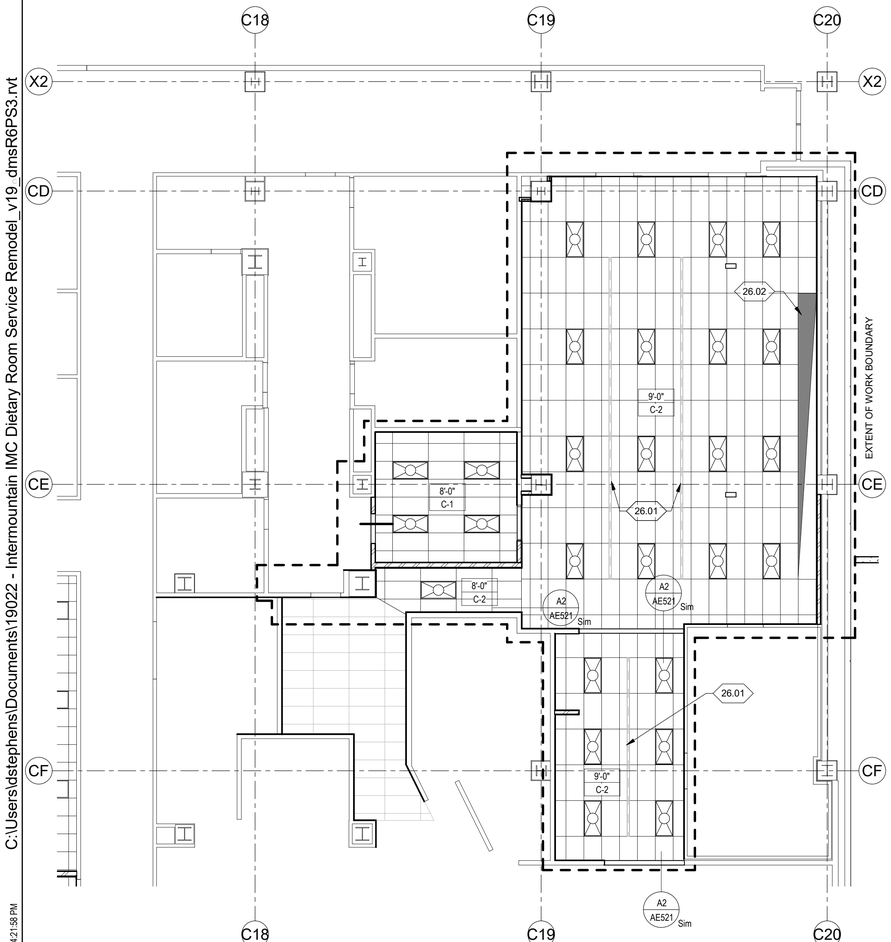
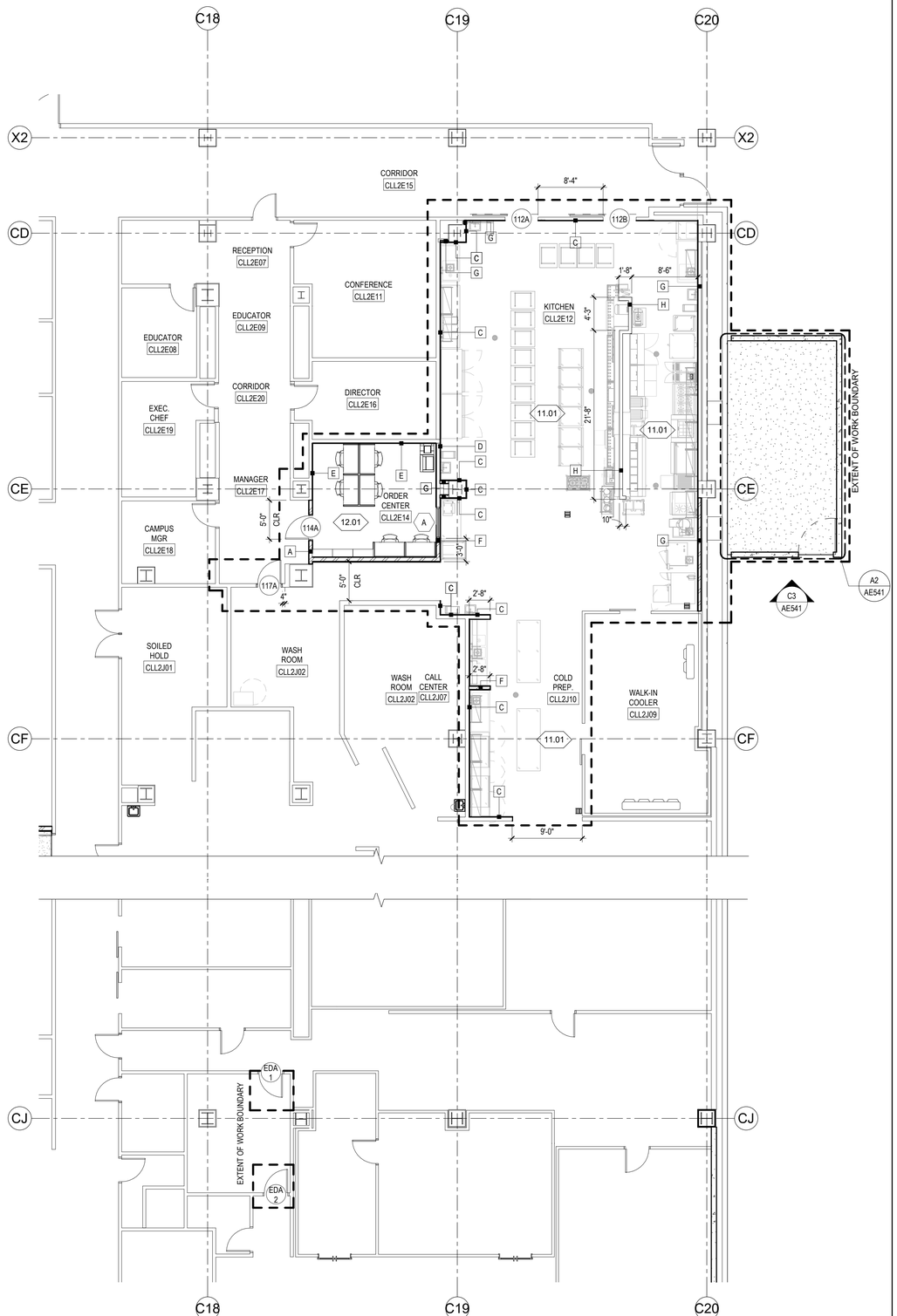


A5 / AE101 MAIN LEVEL REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"



A3 / AE101 MAIN LEVEL FLOOR PLAN

SCALE 1/8" = 1'-0"

0" 8' 16'

GENERAL NOTES:

1. SEE SHEET GI101 FOR ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD OR CMU IN NEW CONSTRUCTION. FACE OF FINISH IN EXISTING (U.N.O.).
3. ALL FLOOR FINISH CHANGES OCCUR AT CENTER LINE OF DOORS IN CLOSED POSITION U.N.O.

MAIN FLOOR & CEILING PLAN KEY NOTES:

11.01	FOOD SERVICE EQUIPMENT SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION
12.01	ALL FURNISHINGS EQUIPMENT PROVIDED BY OWNER AND SHOWN FOR COORDINATION PURPOSES ONLY
26.01	SURFACE MOUNTED POWER RAIL, COORDINATE W/ ELECTRICAL DWGS.
26.02	FOOD SERVICE EQUIPMENT EXHAUST FAN & HOOD ASSEMBLY, COORDINATE WITH MECHANICAL & FOOD EQUIPMENT DRAWINGS

FLOOR PLAN LEGEND:

1i	WINDOW TAG, SEE WINDOW TYPES SHEET AE601
101A	DOOR TAG, SEE DOOR SCHEDULE SHEET AE601
ROOM NAME 101	ROOM TAG, SEE FINISH SCHEDULE AE121
1t	WALL TYPE TAG, SEE SHEET AE511

CEILING TYPES SCHEDULE

C-1	2X4 ACCOUSTICAL LAY-IN PANEL
C-2	2X4 WASHABLE ACOUSTICAL LAY-IN PANEL

REFLECTED CEILING PLAN LEGEND:

- 2x4 LIGHT FIXTURE
- SUPPLY AIR DEVICE
- RETURN AIR DEVICE

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Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

100% PERMIT REVIEW 01/24/2020	
DATE	REVISION

JAMES R. CHILD
No. 120681-0301
LICENSED ARCHITECT
STATE OF UTAH
01/24/2020

LL2.E FLOOR AND CEILING PLANS

AE101

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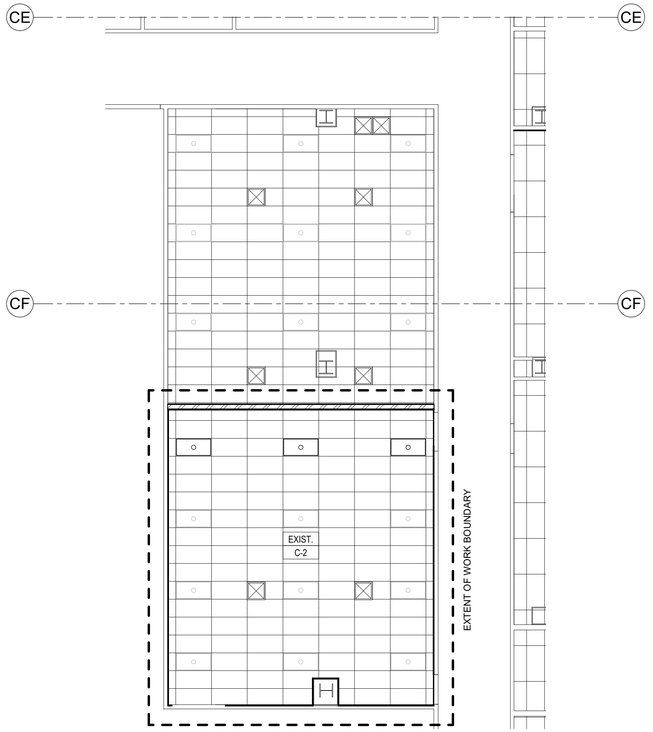
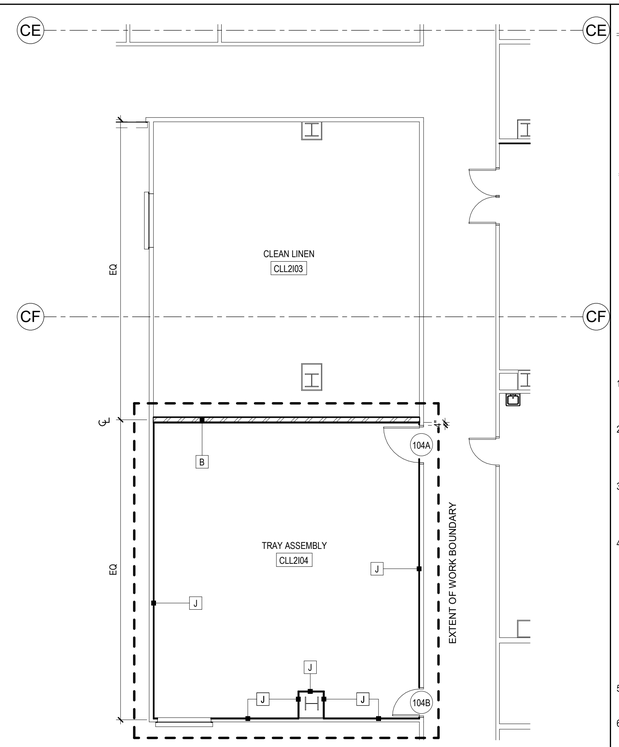


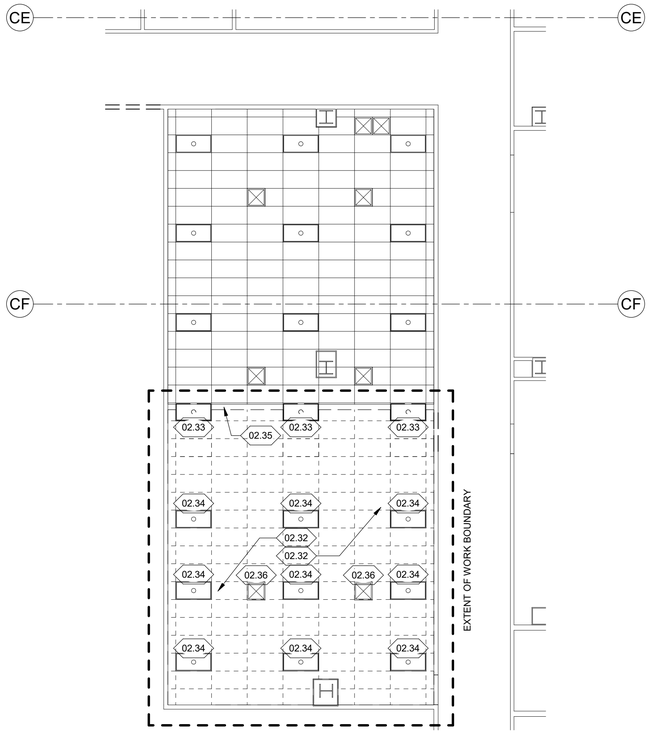
C3 AE102 TEMPORARY PREPARATION REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"



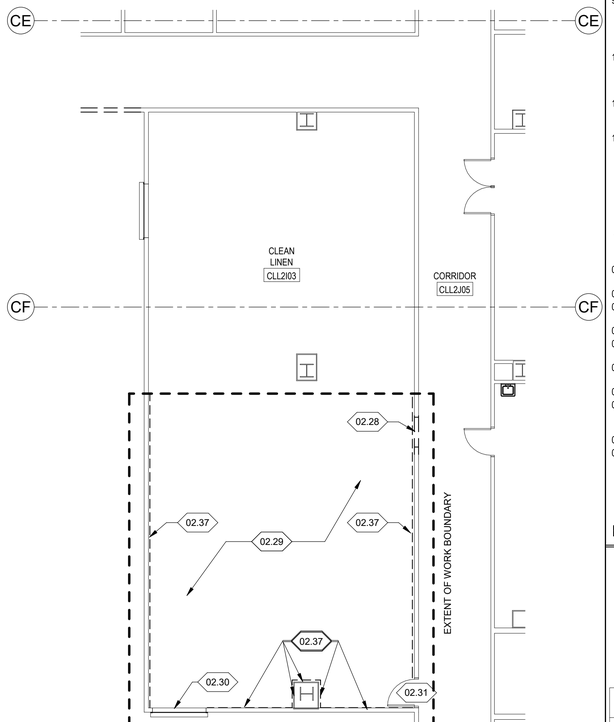
C1 AE102 TEMPORARY PREPARATION FLOOR PLAN

SCALE 1/8" = 1'-0"



A3 AE102 DEMO TEMPORARY PREPARATION REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"



A1 AE102 DEMO TEMPORARY PREPARATION FLOOR PLAN

SCALE 1/8" = 1'-0"

0" 8' 16'

GENERAL NOTES:

1. SEE SHEET GI101 FOR ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD OR CMU IN NEW CONSTRUCTION. FACE OF FINISH IN EXISTING (U.N.O.).
3. ALL FLOOR FINISH CHANGES OCCUR AT CENTER LINE OF DOORS IN CLOSED POSITION U.N.O.

FLOOR PLAN LEGEND:

- 1i — WINDOW TAG, SEE WINDOW TYPES SHEET AE601
- 101A — DOOR TAG, SEE DOOR SCHEDULE SHEET AE601
- ROOM NAME / 101 — ROOM TAG, SEE FINISH SCHEDULE AE121
- 1t — WALL TYPE TAG, SEE SHEET AE511

DEMO GENERAL NOTES:

1. DASHED LINES ON DEMOLITION PLANS INDICATE EXISTING WALLS, CASEWORK, FIXTURES, AND/OR OPENINGS WHICH ARE TO BE REMOVED,UNO. ALL GENERAL DEMOLITION NOTES APPLY TO THIS DRAWING.
2. ALL CONDITIONS AND DIMENSIONS OF THE EXISTING BUILDING WHETHER EXPRESSLY DRAWN OR IMPLIED DO NOT REPRESENT IN-DEPTH FIELD INVESTIGATIONS OR MEASUREMENTS. THE CONTRACTOR IS TO VERIFY AND NOTIFY THE ARCHITECTS OF ANY DISCREPANCIES.
3. THE CONTRACTOR IS TO REVIEW THE COMPLETE DOCUMENT SET AND COORDINATE THE WORK LISTED IN THE DEMOLITION DOCUMENTS WITH THE SCOPE OF THE NEW CONSTRUCTION. ALL DISCREPANCIES WILL BE NOTED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT.
4. THE REMAINDER OF THE BUILDING WILL REMAIN OCCUPIED AND OPERATIONAL DURING THIS CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE TEMPORARY MEANS TO ASSURE CONTINUOUS PROTECTION OF THE OCCUPANTS, THEIR FINISHES, FIXTURES AND OTHER POSSESSIONS FROM INJURY, DAMAGE OR LOSS DUE TO CONSTRUCTION, OR RELATED ACTIVITIES. THE CONTRACTOR IS TO MAINTAIN EXISTING FIRE PROTECTION SYSTEMS, EXITS AND EXIT WAYS, AND ALL OTHER REQUIRED ELEMENTS AT ALL TIMES TO PROVIDE FOR SAFE, SECURE AND LEGAL ACCESS. OCCUPANCY AND EGRESS IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. COORDINATE WITH OWNERS OPERATIONAL NEEDS AND FUNCTIONS PRIOR TO PROCEEDING WITH THE WORK.
5. ALL CORRIDOR SYSTEMS ARE TO BE MAINTAINED AS CLEAR AND ACCESSIBLE MEANS OF EGRESS AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT AND ERECTION OF ALL TEMPORARY PROTECTION FOR MEANS OF EGRESS AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
7. VESTIBLULE DOORS ARE NOT TO BE USED FOR THE REMOVAL OF ANY DEMOLITION OF CONSTRUCTION DEBRIS. DOORS WILL BE MAINTAINED OPERATIONAL FOR USE DURING NORMAL OPERATING HOURS.
8. DO NOT DISTURB, DISRUPT, DAMAGE OR ALTER ANY STRUCTURAL CONDITION OF THE EXISTING BUILDING UNLESS SPECIFICALLY INDICATED WITHIN THESE DOCUMENTS.
9. IN ANY CUTTING, PATCHING OR ALTERATIONS TO THE EXISTING STRUCTURE OR IT'S COMPONENTS MAY BE REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION, THE CONTRACTOR WILL NOTIFY THE ARCHITECT IN WRITING IN ADVANCE, IF SUCH WORK BECOMES NECESSARY.
10. THE EXISTING PERIMETER WALL SYSTEMS ARE NOT TO BE REMOVED. ANY DAMAGE EITHER EXISTING, OR AS A RESULT OF CONSTRUCTION ACTIVITY IS TO BE REPAIRED TO MATCH EXISTING AND ACCEPT NEW CONSTRUCTION WHERE APPLICABLE.
11. COORDINATE DEMOLITION WITH PROJECT PHASING AS SHOWN ON GI111. REVIEW DEMOLITION PLAN WITH ARCHITECT AND OWNER PRIOR TO PROCEEDING WITH THE WORK.
12. SCOPE OF DEMOLITION MAY EXTEND BEYOND LIMIT IDENTIFIED RELATED TO PLUMBING, MECHANICAL, ELECTRICAL AND TECHNOLOGY SYSTEMS. ALL WORK REQUIRED SHALL BE INCLUDED IN CONTRACTORS BASE BID.

KEY NOTES:

02.28	REMOVE WALL ASSEMBLY TO ALLOW FOR NEW DOOR ASSEMBLY, COORDINATE WITH C1/AE102.
02.29	EXISTING FLOORING TO REMAIN.
02.30	EXISTING CEILING DOOR ASSEMBLY TO REMAIN. DISABLE ASSEMBLY @ ELECTRICAL PANEL.
02.31	EXISTING DOOR ASSEMBLY TO REMAIN.
02.32	EXISTING CEILING GRID TO REMAIN. REMOVE ALL CEILING PANELS AND RETAIN FOR REUSE.
02.33	RELOCATE EXISTING LIGHTING FIXTURE TO THE EAST, COORDINATE WITH C3/AE102.
02.34	EXISTING LIGHTING FIXTURE TO REMAIN.
02.35	DISRUPT CEILING GRID TO ALLOW NEW WALL ASSEMBLY TO PASS. COORDINATE WITH C1/AE102 AND C3/AE102. PROVIDE TEMPORARY ATTACHMENT TO NEW WALL ASSEMBLY.
02.36	EXISTING AIR DEVICE TO REMAIN.
02.37	RETAIN WALL PROTECTION, PRESERVE & PROTECT DURING CONSTRUCTION.

REFLECTED CEILING PLAN LEGEND:

- 2x4 LIGHT FIXTURE
- SUPPLY AIR DEVICE
- RETURN AIR DEVICE

CEILING TYPES SCHEDULE	
C-1	2X4 ACCOUSTICAL LAY-IN PANEL
C-2	2X4 WASHABLE ACOUSTICAL LAY-IN PANEL

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PROJECT #: 19022

100% PERMIT REVIEW 01/24/2020	
DATE	REVISION

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

LL2.I TEMPORARY PREPARATION FLOOR PLAN

AE102

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FLOOR FINISH LEGEND						
TYPE	FILL	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	NOTES
F1		EXISTING FINISH				
F2		QUARRY TILE	DALTILE	QUARRY TEXTURES	DIABLE RED 0T01	6X6
F3		CARPET TILE				MATCH EXISTING

BASE FINISH LEGEND						
TYPE	FILL	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	NOTES
B1		RUBBER BASE				MATCH EXISTING
B2		QUARRY TILE, COVED	DALTILE	QUARRY TEXTURES	DIABLO RED 0T01	6X6
B3		EXISTING BASE				

WALL FINISH LEGEND						
TYPE	FILL	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	NOTES
W1		FIELD PAINT				
W2		STEEL WALL PANELS				SEE SPECIFICATIONS
W3		HIGH BUILD EPOXY PAINT				SEE SPECIFICATIONS

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	AREA	FLOOR	BASE	WALL N	WALL E	WALL S	WALL W	NOTES
CLL2E07	RECEPTION	170 SF	F1						
CLL2E08	EDUCATOR	110 SF	F1						
CLL2E09	EDUCATOR	89 SF	F1						
CLL2E11	CONFERENCE	299 SF	F1						
CLL2E12	KITCHEN	1680 SF	F1, F2	B2	W2	W2	W2	W2	
CLL2E14	ORDER CENTER	226 SF	F3	B1	W1	W1	W1	W1	
CLL2E15	CORRIDOR	796 SF	F1						
CLL2E16	DIRECTOR	170 SF	F1						
CLL2E17	MANAGER	204 SF	F1, F3						
CLL2E18	CAMPUS MGR	123 SF	F1						
CLL2E19	EXEC. CHEF	153 SF	F1						
CLL2E20	CORRIDOR	75 SF	F1						
CLL2I03	CLEAN LINEN	971 SF	F1						
CLL2I04	TRAY ASSEMBLY	971 SF	F1	B3	W3	W3	W3	W3	
CLL2J01	SOILED HOLD	292 SF	F1						
CLL2J02	WASH ROOM	703 SF	F1						
CLL2J09	WALK-IN COOLER	382 SF	F1						
CLL2J10	COLD PREP.	373 SF	F1, F2	B2	W2	W2	W2	W2	

GENERAL NOTES:

1. --

ROOM FINISH SCHEDULE NOTES:

KEY NOTES:

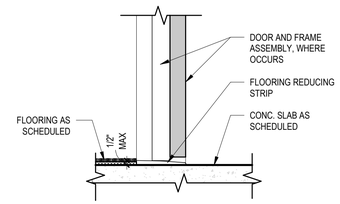
09.01 MATCH EXISTING TILE PATTERN
09.02 TILE EXPANSION JOINT, SEE DETAIL A5/AE121
09.03 TILE ISOLATION JOINT
09.04 SHADED AREA INDICATES EXISTING TILE TO BE REMOVED AT NEAREST GROUT JOINT TO ALLOW FOR SLAB REMOVAL AND PLUMBING WASTE LINE INSTALLATION. REPLACE WITH FLOOR TYPE F2. COORDINATE EXACT AREAS AND EXTENT WITH PLUMBING DRAWINGS.
09.05 FLOOR FINISH TRANSITION
09.06 BASE FINISH, B1

FLOOR FINISH LEGEND:

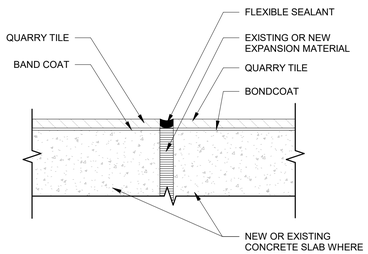
EXISTING FINISH TO REMAIN, U.N.O., F1

TILE FLOOR AREA, F2

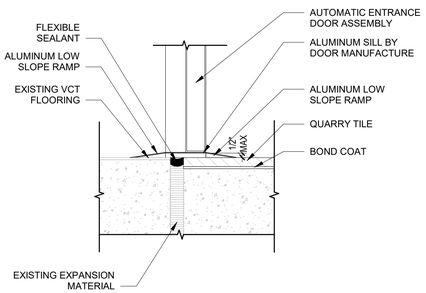
CARPET FLOOR AREA, F3



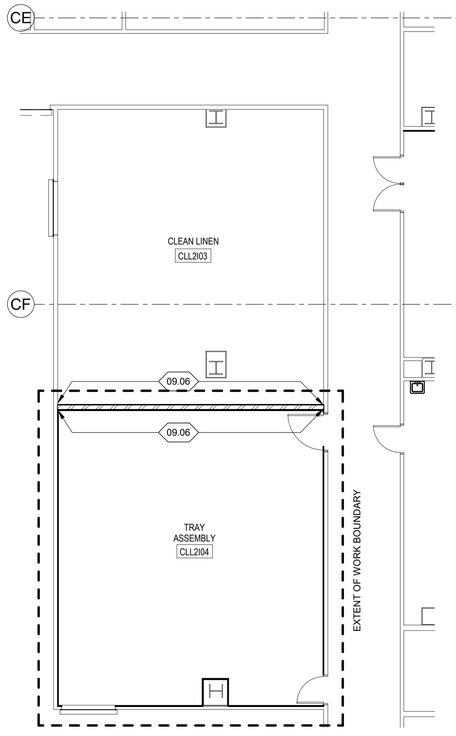
C5 / AE121 2-18 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"



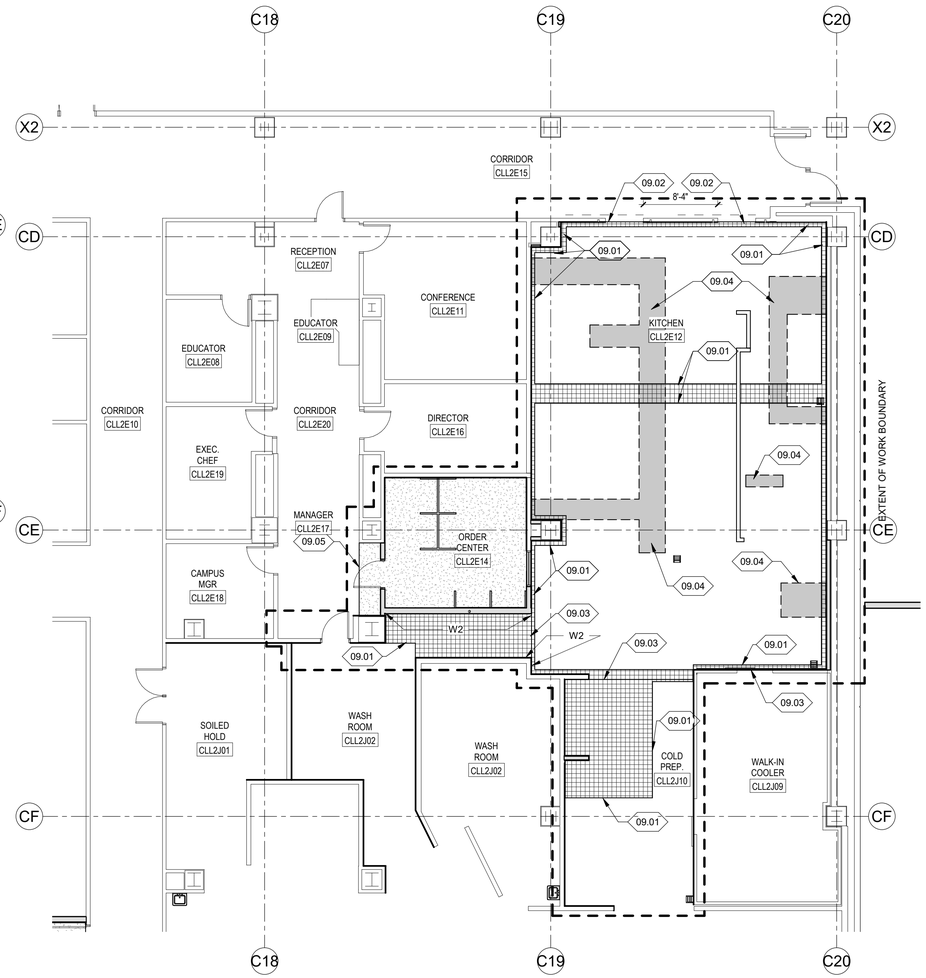
B5 / AE121 FLOOR TRANSITION - TILE EXPANSION JOINT
SCALE 1 1/2" = 1'-0"



A5 / AE121 FLOOR TRANSTITION - THRESHOLD EXPANSION JOINT
SCALE 1 1/2" = 1'-0"



A4 / AE121 TEMPORARY PREPARATION FINISH PLAN
SCALE 1/8" = 1'-0"



A2 / AE121 MAIN FLOOR FINISH PLAN
SCALE 1/8" = 1'-0"

0" 8' 16'

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LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

FINISH PLAN

AE121

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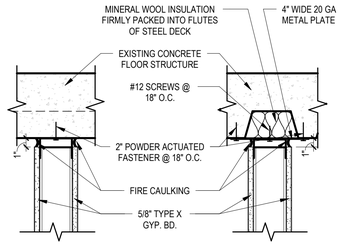
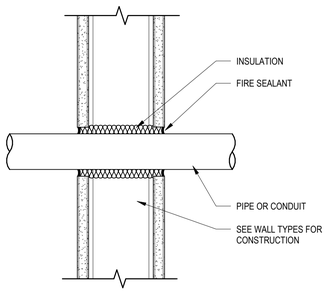


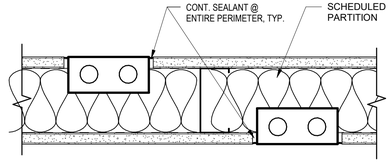
C5 / AE511 TYP. T.O. FIRE RATED WALL

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



C4 / AE511 TYP. PIPE-CONDUIT THRU WALL UL-WL1029

SCALE 3" = 1'-0"



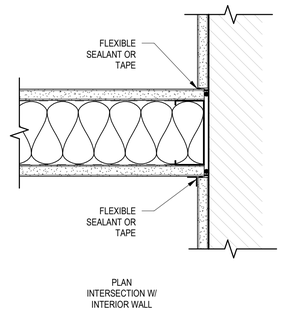
NOTE: PLAN BOXES OFFSET ONE STUD SPACE AND SEAL OF OPENINGS THROUGH PARTITIONS

C3 / AE511 TYP. SOUND WALL DETAIL - PENETRATIONS

SCALE 3" = 1'-0"

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING



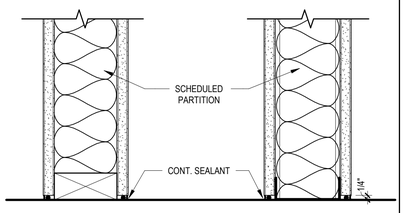
PLAN INTERSECTION W/ INTERIOR WALL

C2 / AE511 TYP. SOUND WALL DETAIL - TO EXISTING

SCALE 3" = 1'-0"

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING

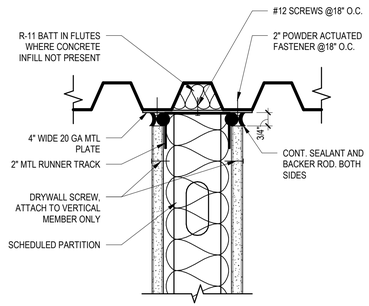


C1 / AE511 TYP. SOUND WALL DETAIL - FLOOR

SCALE 3" = 1'-0"

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING

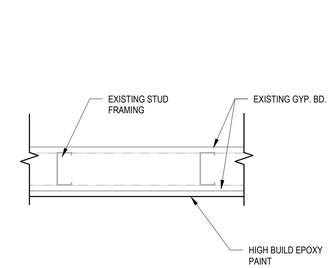


B5 / AE511 TYP. SOUND WALL DETAIL - HEAD CONDITION

SCALE 3" = 1'-0"

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING

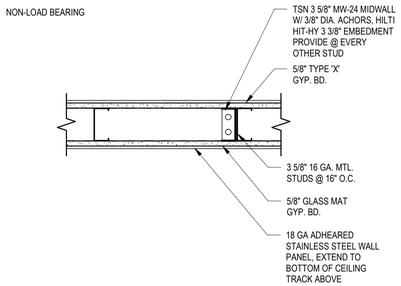


B4 / AE511 WALL TYPE 'J'

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

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING

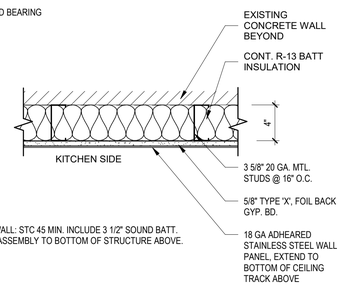


B3 / AE511 WALL TYPE 'H'

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

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING



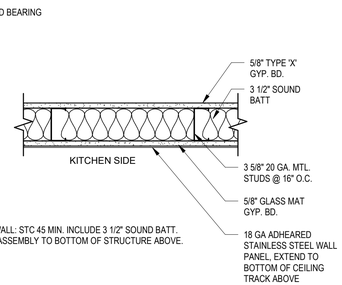
SOUND WALL: STC 45 MIN. INCLUDE 3 1/2" SOUND BATT. EXTEND ASSEMBLY TO BOTTOM OF STRUCTURE ABOVE.

B2 / AE511 WALL TYPE 'G'

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

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

NON-LOAD BEARING



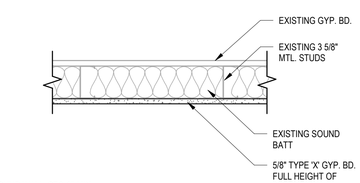
SOUND WALL: STC 45 MIN. INCLUDE 3 1/2" SOUND BATT. EXTEND ASSEMBLY TO BOTTOM OF STRUCTURE ABOVE.

B1 / AE511 WALL TYPE 'F'

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

ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO EACH SIDE OF METAL STUDS @ 16" O.C. WITH 1" TYPE 'S' DRYWALL SCREWS @ 8" O.C. TO VERTICAL EDGES AND 12" O.C. ON TOP & BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" O.C. EACH SIDE AND OPPOSITE SIDES

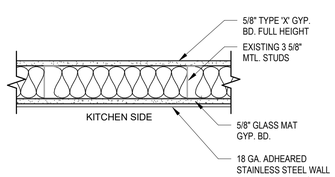
NON-LOAD BEARING



SOUND WALL: STC 45 MIN.

A5 / AE511 WALL TYPE 'E'

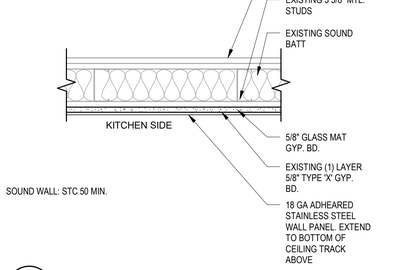
SCALE 1 1/2" = 1'-0"



SOUND WALL: STC 45 MIN.

A4 / AE511 WALL TYPE 'D'

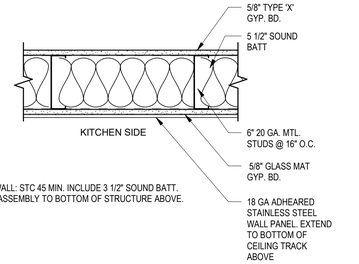
SCALE 1 1/2" = 1'-0"



SOUND WALL: STC 50 MIN.

A3 / AE511 WALL TYPE 'C'

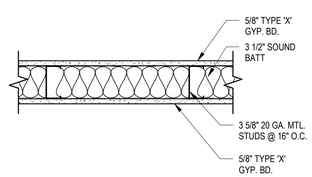
SCALE 1 1/2" = 1'-0"



SOUND WALL: STC 45 MIN. INCLUDE 3 1/2" SOUND BATT. EXTEND ASSEMBLY TO BOTTOM OF STRUCTURE ABOVE.

A2 / AE511 WALL TYPE 'B'

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



SOUND WALL: STC 45 MIN. INCLUDE 3 1/2" SOUND BATT. EXTEND ASSEMBLY TO BOTTOM OF STRUCTURE ABOVE.

A1 / AE511 WALL TYPE 'A'

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

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Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

100% PERMIT REVIEW 01/24/2020

DATE	REVISION

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

WALL TYPES

AE511

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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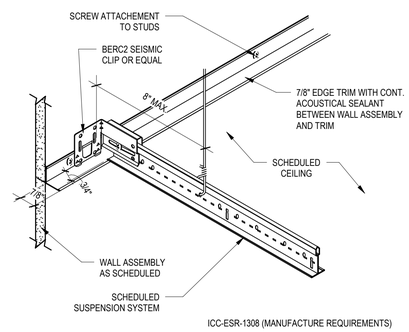
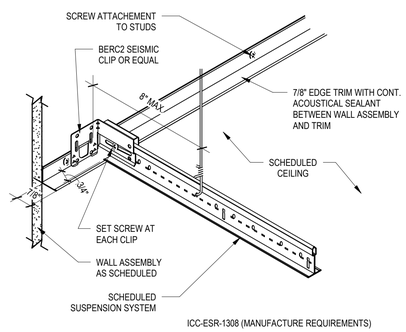


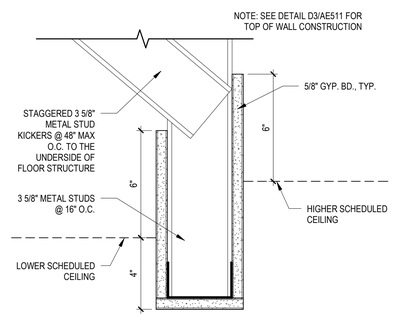
ICC-ESR-1308 (MANUFACTURE REQUIREMENTS)

A4 / AE521 UNRESTRAINED EDGE DETAIL
SCALE 3" = 1'-0"



ICC-ESR-1308 (MANUFACTURE REQUIREMENTS)

A3 / AE521 RESTRAINED EDGE DETAIL
SCALE 3" = 1'-0"

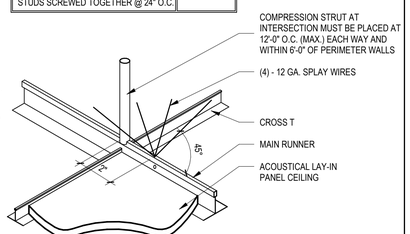


A2 / AE521 CEILING TRANSITION DETAIL
SCALE 3" = 1'-0"

TYPICAL FOR EQUIPMENT REQUIRING BLOCKING U.N.O.

B1 / AE521 2-14 BLOCKING DETAIL
SCALE 1 1/2" = 1'-0"

STRUT SIZE	MAX. LENGTH
3/4" DIAMETER CONDUIT (EMT)	8'-6"
1" DIAMETER CONDUIT (EMT)	10'-0"
SINGLE 2 1/2" X 20 GA. METAL STUD (Imin = 0.18 in4)	11'-6"
BACK TO BACK 2 1/2" X 20 GA. METAL STUDS SCREWED TOGETHER @ 24" O.C.	15'-0"



A1 / AE521 2-01 TYPICAL COMPRESSION STRUT
SCALE 3" = 1'-0"

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JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
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INTERIOR FINISH DETAILS

AE521

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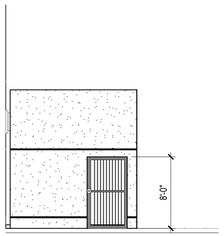
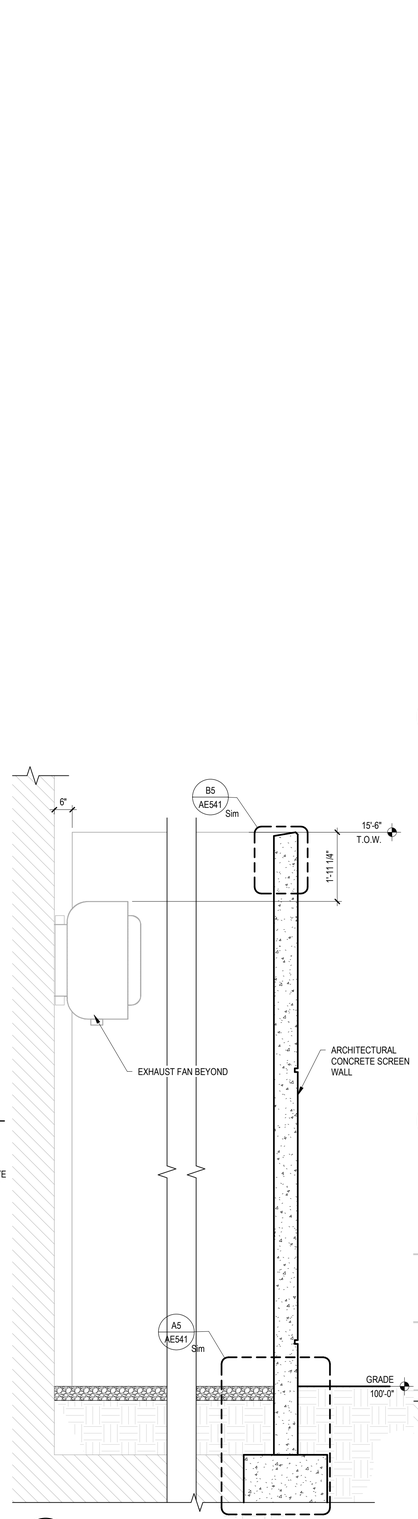


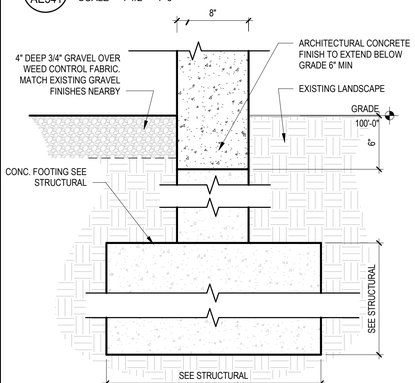
C3 AE541 EXTERIOR ELEVATION - SCREEN WALL
SCALE 1/8" = 1'-0"

B5 AE541 TOP OF WALL DETAIL
SCALE 1 1/2" = 1'-0"

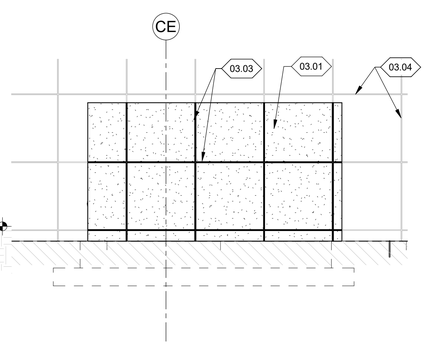


A4 AE541 SECTION - SCREEN WALL
SCALE 1/2" = 1'-0"

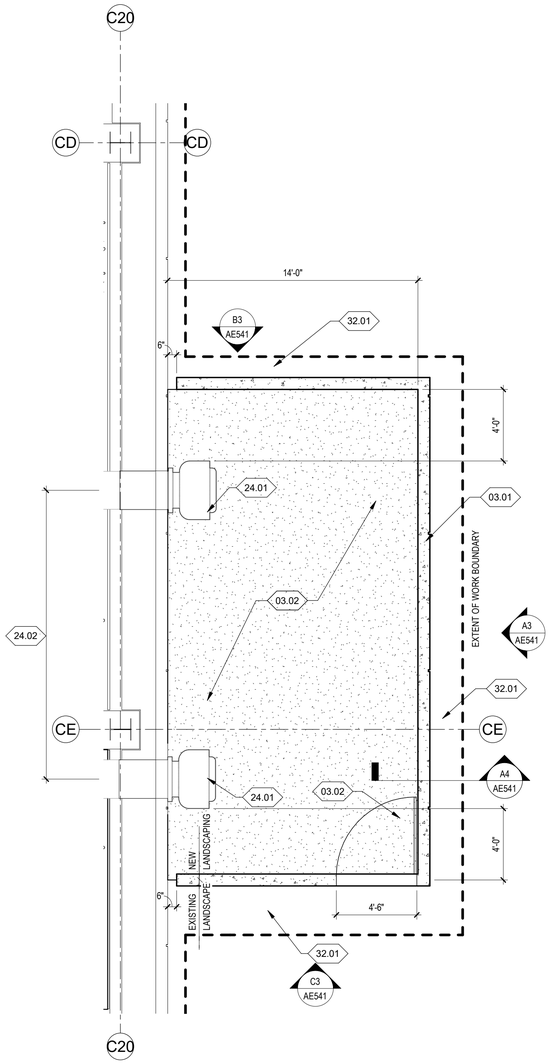
B3 AE541 EXTERIOR ELEVATION - SCREEN WALL
SCALE 1/8" = 1'-0"



A5 AE541 BASE OF WALL DETAIL
SCALE 1 1/2" = 1'-0"



A3 AE541 EXTERIOR ELEVATION - SCREEN WALL
SCALE 1/8" = 1'-0"



A2 AE541 LL2.E PLAZA AREA PARTIAL FLOOR PLAN
SCALE 1/4" = 1'-0"

KEY NOTES:

03.01	ARCHITECTURAL CONCRETE SCREEN WALL, COORDINATE WITH STRUCTURAL DRAWINGS
03.02	4"CONCRETE SLAB ON GRADE, COORDINATE W/STRUCTURAL DRAWINGS
03.03	CONCRETE REVEAL, MATCH EXISTING PROFILE & LAYOUT. GC TO FIELD VERIFY EXISTING CONDITIONS
03.04	EXISTING CONCRETE REVEAL PATTERN BEYOND
24.01	EXHAUST FAN UNIT, COORDINATE WITH MECHANICAL DRAWINGS & STRUCTURAL DRAWINGS FOR THROUGH WALL OPENINGS.
24.02	EXHAUST FAN VERTICAL & HORIZONTAL LOCATION REQUIRES FIELD COORDINATION & LAYOUT COORDINATION WITH EXHAUST HOOD DESIGN & EXHAUST FAN REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR FINAL PLACEMENT TO ENSURE COMPLETE AND FUNCTIONING SYSTEM. SUBMIT FIELD COORDINATION DRAWINGS SUBMITTAL FOR REVIEW PRIOR TO INSTALLATION.
32.01	REPAIR & REPLACE LANDSCAPING REMOVED OR DISTURBED TO ALLOW FOR NEW CONSTRUCTION. REWORK IRRIGATION SYSTEMS IN COORDINATION WITH OWNERS STAFF.

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No. 120681-0301
STATE OF UTAH
01/24/2020

BUILDING DETAILS

AE541

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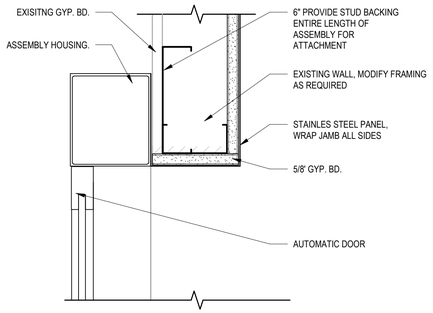
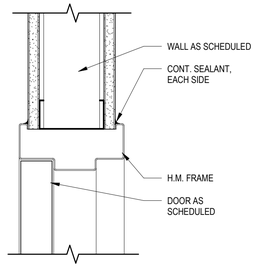


D4 / AE601 AUTOMATIC ENTRANCE DOOR HEAD
SCALE 3" = 1'-0"



D3 / AE601 TYP. INTERIOR H.M. DOOR HEAD
SCALE 3" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATL	FRAME FINISH	DETAILS (AE601) HEAD	DETAILS (AE601) JAMB	ASSEMBLY FIRE RATING	HDW R	NOTES
104A	4'-0"	7'-0"	D1	WD	DF3	G3	F1	HM	FF1	D3/AE601	C3/AE601		02	7
104B	EXIST	EXIST	D1									20 MIN.		
112A	4'-0"	7'-0"		AL	DF1		F2	AL	DF1	C5/AE601	B5/AE601			2,3,4,5,6
112B	4'-0"	7'-0"		AL	DF1		F2	AL	DF1	C5/AE601	C5/AE601			2,3,4,5,6
114A	------	------		WD				HM	FF1	D3/AE601	C3/AE601			1
117A	3'-0"	7'-0"	D1	HM	DF2	G1	F1	HM	FF1	B3/AE601	A3/AE601		01	
EDA 1	EXIST	EXIST												7
EDA 2	EXIST	EXIST												7

NOTES:
1. RELOCATED DOOR ASSEMBLY, REPAINT TO MATCH ADJACENT ASSEMBLIES

HW SET: 01

Each to have:

Qty	Unit	Hardware Description	Product ID	Finish	Manufacture
3	EA	HINGE	4.5 X 4.5	652	Match Exist.
1	EA	CLASSROOM LOCK	Match Existing	626	Match Exist.
1	EA	CORE	Coordinate with Owners req.	626	Match Exist.
1	EA	MORTISE HOUSING	As req. by hardware	626	Match Exist.
1	EA	SURFACE CLOSER	Match Existing	689	Match Exist.
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	8144FS PSA	BK	ZER
1	EA	DOOR BOTTOM	367	AA	ZER

HW SET: 02

Each to have:

Qty	Unit	Hardware Description	Product ID	Finish	Manufacture
1	EA	GEARED HINGE	Continuous	652	Match Exist.
1	EA	CLASSROOM LOCK	Match Existing	626	Match Exist.
1	EA	CORE	Coordinate with Owners req.	626	Match Exist.
1	EA	MORTISE HOUSING	As req. by hardware	626	Match Exist.
1	EA	SURFACE CLOSER	Match Existing	689	Match Exist.
1	EA	MAGNETIC HOLD	Match Existing		Match Exist.
1	EA	ARMOR PLATE	8400 48" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	8144FS PSA	BK	ZER

FRAME FINISH LEGEND	
FF1	FIELD PAINT

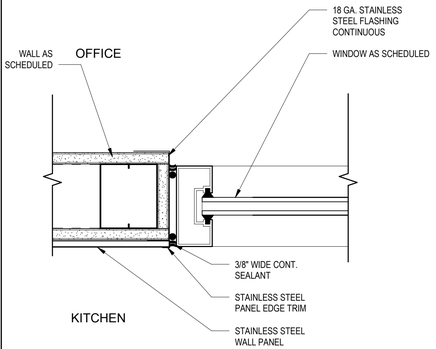
DOOR FINISH LEGEND	
DF1	FACTORY FINISH
DF2	PAINTED FINISH, MATCH EXISTING BLDG. TYPE
DF3	WOOD VENEER, MATCH EXISTING BLDG. TYPE

DOOR MATERIAL LEGEND	
WD	WOOD - SOLID CORE
HM	HOLLOW METAL
AL	ALUMINUM
GZ	GLAZING

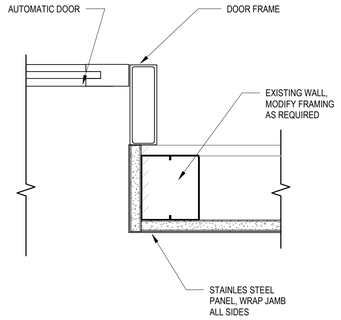
GLAZING SCHEDULE	
G1	1" INSULATED CLEAR, TEMPERED

DOOR SCHEDULE NOTES:

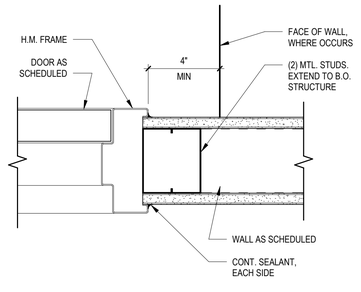
1. EXISTING, RELOCATED DOOR ASSEMBLY, REPAINT DOOR FRAME
2. SLIDING AUTOMATIC DOOR ASSEMBLY
3. GLAZING AND INFILL PANEL BY MANUFACTURE
4. ACCESS CONTROL ACTIVATION AT CORRIDOR, MOTION SENSING AT INTERIOR
5. ASSEMBLY DESIGNATED AS POINT OF EGRESS TO CORRIDOR.
6. COORDINATE ELECTRICAL CONNECTIVITY, ACCESS CONTROL & ACTIVATION CONTROL WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.
7. PROVIDE MAGNETIC HOLD OPEN, COORINATE WITH ELECTRICAL DRAWINGS.



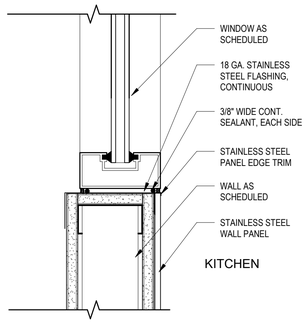
C5 / AE601 INTERIOR STOREFRONT JAMB/HEAD
SCALE 3" = 1'-0"



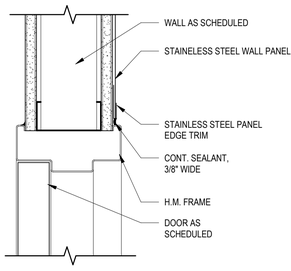
C4 / AE601 AUTOMATIC ENTRANCE DOOR JAMB
SCALE 3" = 1'-0"



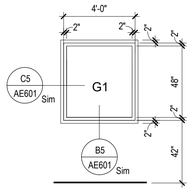
C3 / AE601 TYP. INTERIOR H.M. DOOR JAMB
SCALE 3" = 1'-0"



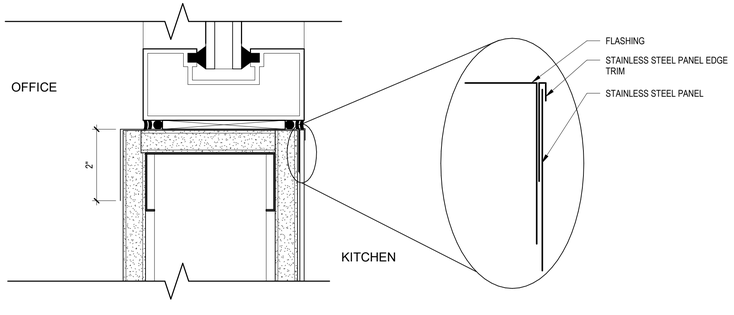
B5 / AE601 INTERIOR STOREFRONT SILL
SCALE 3" = 1'-0"



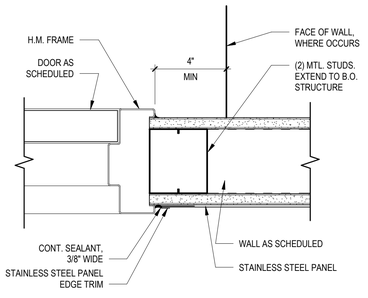
B3 / AE601 INTERIOR H.M. DOOR HEAD
SCALE 3" = 1'-0"



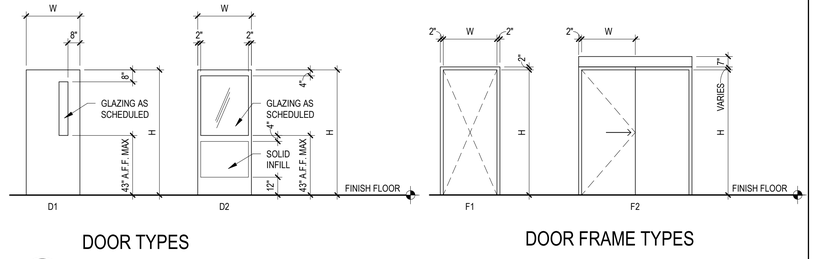
B1 / AE601 WINDOW TYPE "A"
SCALE 1/4" = 1'-0"



A5 / AE601 INTERIOR STOREFRONT SILL ENLARGED TYP
SCALE 6" = 1'-0"



A3 / AE601 INTERIOR H.M. DOOR JAMB
SCALE 3" = 1'-0"



A2 / AE601 DOOR TYPES/DOOR FRAME TYPES
SCALE 1/4" = 1'-0"

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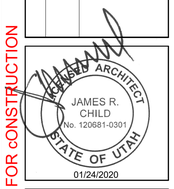

DOOR & FRAME TYPES / SCHEDULES

AE601

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1. Design Criteria

1.1. Governing Building Code .....2018 International Building Code (IBC)
A. Risk Category.....III

1.2. Earthquake
A. Seismic Design Category.....D
B. Spectral Response Accelerations
S_S = 1.487 g S_{DS} = 0.991 g
S_1 = 0.525 g S_{D1} = 0.621 g
C. Soil Site Class.....D
F_a =1.0 F_v = 1.78
D. Architectural Elements: Non-structural cantilever wall
a_p = 1.0 Ω_0 = 2.5 R_p = 2.5
E. Importance Factor, I_e.....1.25
F. Redundancy Factor, ρ.....1.0

1.3. Wind
A. Basic Design Wind Speed, V.....109 mph
B. Allowable Stress Design Wind Speed, V_{asd}.....86 mph
C. Velocity pressure exponent coefficient, K_d.....0.85
D. Exposure category.....C
E. Internal Pressure Coefficient, GC_{pi}.....0.18
F. Topographic Factor, K_{zt}.....1.0

1.4. Foundation
A. Subsurface Conditions:
Soils report and log of borings was obtained by the Owner for the Engineer's use in the design of the foundation, and is not a part of the Contract Documents. This report and log of borings is available for the Contractor's information, but is not a warranty of the subsurface conditions. The Contractor may use the report at their own risk.
B. Soils Report by AGEC, dated November 21, 2003.
C. Net allowable Soil Bearing Pressure:
1. Spread footings .....4000 psf on compacted fill, natural soil, slag.

2. Concrete

2.1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-14, "Building Code Requirements for Structural Concrete."
A. Concrete mix design requirements shall be as follows:

Location	f'c at 28 days (psi)	Max W/C Ratio	Air Content (%)	Max Aggregate Size	Exposure Classes*		
					F	S	C
Footings	3000	0.50	-	1"	F0	S0	C0
Exterior Walls	4500	0.45	6	¾"	F1	S0	C1
All other site cast concrete	4500	0.45	6	1"	F1	S0	C1

* Exposure Classes are per ACI 318, Section 19.3.1.1, where F, S and C are exposure categories for freezing and thawing, sulfate, and corrosion protection of reinforcement, respectively.

B. Cementitious Materials:
1. Portland Cement (ASTM C150):
a. Type I or II for exposure class S0.
b. Type II or V for exposure class S1.
c. Type V for exposure class S2 and S3.
2. Fly Ash (ASTM C618, Class C or F): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
C. Concrete Density (Maximum Air Dry Weight):
1. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
D. Steel Reinforcement:
1. ASTM A615 Grade 60, fy = 60,000 psi min. unless noted otherwise.
2. Reinforcement at concrete moment frames, concrete shear walls, and all components of shear walls including coupling beams and wall piers shall comply with ASTM A706, Grade 60. ASTM A615 Grade 60 reinforcement shall be permitted if:
a. The actual yield strength based on mill tests does not exceed 78,000 psi, and
b. The ratio of actual tensile strength to the actual yield strength is not less than 1.25.
c. Mill tests shall be submitted to the Engineer.
E. Admixtures:
1. Air-entraining admixtures, comply with ASTM C 260 (when used).
a. Tolerance on air content as delivered shall be +/- 1.5%.
b. When air content of a trowel finished floor slab exceeds 3%, there is an increased risk for delaminations and blistering to occur. When this situation is present, the Contractor shall pay special attention to the finishing procedures to help minimize such risks. Refer to ACI 302.1R-15 "Guide for Concrete Floor and Slab Construction" for proper finishing guidelines.
2. The use of super plasticizers and water reducers is allowed, but not required.
3. Calcium chloride or admixtures containing calcium chloride shall not be added to the concrete mix.
F. Chloride Ion: Maximum water soluble chloride ion concentrations in hardened concrete at age between 28 and 42 days contributed from the ingredients including water, aggregates, cementitious materials, and admixtures shall not exceed a maximum, by weight of cement, of 1.00% for concrete with exposure class C0, 0.30% for concrete with exposure class C1, 0.15% for concrete with exposure class C2, and 0.06% for all prestressed concrete.
G. Slump Limit: 4 inches, maximum for all concrete prior to the addition of plasticizers and water reducing admixtures. The concrete supplier shall indicate the final slump of each concrete mix in the submitted mix design.
H. Shrinkage Limit: Interior slabs on grade shall have a drying shrinkage limit of 0.040 percent tested in accordance with ASTM C157. Drying shrinkage test results shall be submitted with mix designs.
I. Only one grade or type of concrete shall be poured on the site at any given time.

2.2. Formwork shall comply with ACI Standards Publication 347 and the project specifications. The Contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.

2.3. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
A. Cast-in-place Concrete: Specified Cover
1. Cast against and permanently exposed to earth: .....3"
2. Formed concrete exposed to earth or weather:
#6 thru **#18** bars.....2"
#5 and smaller bars.....1.1/2"

2.4. Construction Joints and Control Joints:
A. Provide a surface intentionally roughened to ¼" amplitude in all wall footings. A continuous keyway shall not be used for concrete shear wall to footing connections, unless specifically indicated. Refer to project plans, schedules and details for the shear wall to footing connection requirements.
B. All horizontal and vertical construction joints shall have a surface intentionally roughened to ¼" amplitude. A continuous 2 X 4 keyway may be used on elements other than shear walls.
C. Provide reinforcement dowels to match the member reinforcement across the joint, unless noted otherwise. For dowels across construction joints and wall to footing connections of concrete shear walls, refer to specific project plans, schedules, and details.
D. Control joints in visually exposed walls, unless noted otherwise: (Joints shall line up with masonry and architectural joints, see drawings.)
1. Vertical control joints at 7'-6" on center, see architectural drawings.
2. Reinforcing shall be continuous through control and construction joints, unless noted otherwise.

2.5. Detailing: All reinforcing, including welded wire fabric, shall be detailed, bolstered & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
A. All reinforcing shall be developed in compliance with the CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE SCHEDULE. As indicated in the drawings or upon approval of the engineer of record, standard tension hooks or headed bars described by the TENSION HOOK DEVELOPMENT SCHEDULE or the TENSION HEADED BAR DEVELOPMENT SCHEDULE may be used in lieu of straight bars.
B. All embedded elements and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
C. Use chairs or other support devices recommended by CRSI to support and tie reinforcement bars and welded wire fabric prior to placing concrete.
D. See typical details for reinforcing at wall intersections and ends, reinforcing around wall openings and suspended slab openings, vertical wall dowels, concrete column ties and splices in vertical column reinforcing.
E. Where required, reinforcement is to be terminated in a standard hook or headed bar anchor. Refer to the TENSION HOOK DEVELOPMENT SCHEDULE, the TENSION HEADED BAR DEVELOPMENT SCHEDULE and the REINFORCEMENT END HOOK SCHEDULE as appropriate. Unless otherwise noted, a standard hook or headed bar are equivalent and may be substituted at the Contractor's option.
F. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
G. All reinforcement shall be bent cold, and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the Engineer.

2.6. Minimum Reinforcing: Wall reinforcing shall be as follows, unless noted otherwise:

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
8"	#5 @ 15" o.c.	#4 @ 16" o.c.
Others	0.25% of Wall Area	0.15% of Wall Area

Spacing shall exceed neither three times the wall thickness nor 18". In addition to the above reinforcing, 2 - #5 x continuous horizontal bars shall be placed at the bottom of the wall (near the footing) and at each floor level, at the roof level and at the top of wall.

2.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

2.8. Unless otherwise noted, all slabs on grade shall be 4" thick.

3. Structural Steel

3.1. Material:
A. All Other Shapes and Plates: ASTM A36 (Fy = 36 ksi), except as noted otherwise

3.2. Fabrication and construction shall comply with the following Codes and Standards:
A. American Institute of Steel Construction (AISC) 360-16, "Specification for Structural Steel Buildings"
B. AISC 303-16, "Code of Standard Practice for Steel Buildings and Bridges" excluding the following: Section 3.3 (last two sentences of first paragraph), Section 4.4, Section 4.4.1, Section 4.4.2, Section 4.5, and Section 7.13.3
1. The architectural drawings are the prime contract drawings. Consultants' drawings by other disciplines are supplementary to the architectural drawings. The structural drawings shall be used in conjunction with the architectural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in architectural, structural, and/or other consultants' drawings. Refer to the Special Instructions section of the general notes, below.
C. AISC/RCSC 2014, "Specification for Structural Joints Using High-Strength Bolts"
D. American Welding Society (AWS) D1.1:2015, "Structural Welding Code – Steel" (specific items do not apply when they conflict with the AISC requirements)
E. American Welding Society (AWS) D1.8:2016, "Structural Welding Code – Seismic Supplement" (specific items do not apply when they conflict with the AISC requirements)

3.3. Structural shapes and plates shall be fabricated from newly rolled (milled) one-piece sections without splices, unless specifically noted otherwise on the structural drawings. Connections for structural steel shall comply with the structural drawings, unless written approval is given by the Structural Engineer.

3.4. Welding:
A. It is recommended the steel erection contractor and steel fabricator contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the Architect prior to beginning work.
C. Electrodes: E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.
D. Minimum Welds: All intersecting steel shapes that are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Fillet weld sizes that are not shown shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected parts.
E. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
F. Bolts: Do not apply any welds, including "tack" welds to bolts, including anchor bolts, except as specifically detailed in the drawings.

4. Miscellaneous

4.1. Post-Installed Anchors in Concrete and Masonry
A. Anchorage to hardened concrete and grout-filled masonry shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Engineer prior to installation.
B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes.
C. Anchorage to Concrete:
1. All post-installed anchors into hardened concrete shall be selected from the following pre-approved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti KWIK HUS-EZ	ICC ESR-3027
DeWalt Screw-Bolt+	ICC ESR-3889
Simpson Titen HD	ICC ESR-2713

Steel Expansion/Wedge Anchor	Evaluation Report
Hilti KWIK Bolt TZ	ICC ESR-1917
ITW Red Head Trubolt+	ICC ESR-2427
DeWalt Power-Stud+ SD2	ICC ESR-2502
Simpson Strong-Bolt 2	ICC ESR-3037

Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 200	ICC ESR-3187
Hilti HIT-RE 500-V3	ICC ESR-3814
DeWalt AC200+	ICC ESR-4027
DeWalt Pure 110+	ICC ESR-3298
Simpson SET-XP	ICC ESR-2508

2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21 days, consult the adhesive manufacturer.
D. Alternate anchors or adhesives are permitted with approval of the Engineer. The Contractor shall submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent or exceeds the capacity of the specified anchor.
E. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by an applicable certification program. Certification shall include written and performance tests in accordance with the ACI/CRSI Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the Engineer for approval prior to commencement of installation.
F. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and applicable code evaluation reports including:
1. Hole diameter, depth, and cleaning procedure
2. Adhesive mixing, preparation, and placement
3. Installation torque
G. Locate all existing reinforcement and embedded items prior to drilling into concrete or masonry elements. Do not damage rebar or embeds while drilling or installing anchors.
H. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Architect for additional requirements at architecturally exposed concrete.
I. Drilled anchors are not allowed in post-tensioned concrete without approval of the Architect and Engineer.
J. Carbon steel anchors are limited to use in dry, interior locations.

5. Special Instructions

5.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.

5.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the Owner. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk.

5.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.

5.4. Shoring and Bracing Requirements:
A. Floor and Roof Structures -- The General Contractor is responsible for the method and sequence of all structural erection. The Contractor shall provide temporary shoring and bracing as the method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.
B. Foundation walls must be braced until the complete floor or roof systems is completed. Do not backfill until floor or roof systems are in place.
C. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self-supporting.

5.5. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the Contractor of the responsibility of completing the project according to the contract documents. The General Contractor shall review and mark all shop drawings prior to submitting them to the Architect for review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.

5.6. Project Coordination: It shall be the responsibility of the General Contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the General Contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the General Contractor. It is the Contractor's obligation to provide all items necessary for the chosen procedure.

5.7. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, Contractor shall notify Architect/Engineer prior to fabrication or construction within that area.

5.8. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers' reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the Contractor or subcontractors for preparation of shop drawings or other submittals.

6. Quality Assurance

6.1. Quality Assurance Agency Requirements:
A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements.
1. The QAA shall be objective, competent and independent from the Contractor responsible for the work being inspected. The agency shall disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.
2. The QAA shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.
3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.
4. The QAA shall send copies of all inspection and testing reports to the building official, Owner, Architect, Engineer and Contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the, Architect and Engineer.
5. The QAA shall submit a final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests. The final report shall be distributed to the building official, Owner, Architect and Engineer in a timely manner prior to the completion of the project.

6.2. Contractor Responsibilities:
A. The Contractor shall submit a written statement of responsibility to the building official and the Owner or the owner's authorized agent prior to the commencement of work on the systems or components listed in the statement of special inspections. The Contractor's statement of responsibility shall contain acknowledgement or awareness of the special requirements contained in the statement of special inspections.
B. Notification of QAA: The Contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.

6.3. Structural Observations by the Engineer of Record.
A. The Engineer of Record will perform structural observations at critical phases of the project. Observations will be made on a periodic basis throughout the construction of the structural system. Copies of the Engineer's report will be distributed to the Architect, Contractor, Owner, and building official.
B. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.

7. Statement of Special Inspections

7.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).

7.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. Frequency marked with (E) designates periodic inspections that must be performed prior to or upon completion of every task.

Concrete Construction per IBC Sections 1705.3 &1705.12

Item	Frequency	Detailed Instructions
Reinforcing steel	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.

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Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

	DATE	REVISION

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. #176779
MARK HARRIS
UTAH
01/22/2020

GENERAL STRUCTURAL NOTES

S001

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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PLAN LEGEND

- FOOTING - CONTINUOUS
- CONCRETE WALL
- EXISTING FOOTING - CONTINUOUS
- EXISTING FOOTING - THICKENED SLAB
- EXISTING FOOTING - SQUARE, RECTANGULAR, OR MAT
- EXISTING CONCRETE SHEAR WALL, FOUNDATION WALL OR RETAINING WALL
- EXISTING OPENING THROUGH CONCRETE WALL
- EXISTING CONCRETE PIER IN CONCRETE WALL. PIER RECESSED BELOW SLAB.
- EXISTING CONCRETE COLUMN
- NEW OPENING THROUGH EXISTING CONCRETE WALL
- EXISTING STEEL COLUMN - WIDE FLANGE
- EXISTING STEEL BEAM OR GIRDER
- EXISTING STEEL JOIST OR PURLIN

PLAN MARKS

BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
CGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
FC#	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
WB-#	WOOD BEAM
WBW-#	WOOD BEARING WALL
WC-#	WOOD COLUMN
WD-#	WOOD DIAPHRAGM
WJ-#	WOOD JOIST
WSW-#	WOOD SHEAR WALL

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT (S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
D.B.	DECK BEARING
db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DK	DECK
DN	DOWN
DWG	DRAWING
DWL	DOWEL
E.F.	EACH FACE
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
FDTN	FOUNDATION
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
I.F.	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS - 1,000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
Ld, Lt, Lsb, Lsbt, Ldc, Lsc	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE
LF	LINEAL FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT

ABBREVIATIONS

MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NORM	NORMAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PCF	POUNDS/CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SI	SPECIAL INSPECTION (SP. INSP.)
SIM	SIMILAR
SOG	SLAB ON GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
T.O.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

STRUCTURAL DRAWING LIST

SHT NO.	SHT NAME
S601	CONCRETE SCHEDULES
S001	GENERAL STRUCTURAL NOTES
S002	LEGENDS & ABBREVIATIONS
S101	STRUCTURAL PLANS & DETAILS

Item	Frequency	Detailed Instructions
Welding of reinforcing steel	Periodic	Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Cast-in bolts & embeds	Periodic	
Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	Continuous	All post-installed anchors/dowels shall be special inspected in accordance with the approved code evaluation report and with ACI Section 17.8.2.
Post-installed mechanical anchors and adhesive anchors not defined above	Periodic	
Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3-26.4.4; and IBC 1904.1, 1908.2, 1908.3.
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39 by a testing agency complying with ASTM C1077. Acceptance criteria for strength tests shall be per ACI 318 Section 26.12.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd^3 of concrete, nor less than once for each 5000 ft^2 of surface area for slabs or walls. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.
Concrete & shotcrete placement	Continuous	
Curing temperature and techniques	Periodic	Verify that concrete is maintained at a temperature of at least 50°F and in a moist condition for at least 7 days after placement. Verify that high-early-strength concrete is maintained at a temperature of at least 50°F and in a moist condition for at least 3 days after placement. Accelerated curing methods may be used (see ACI 318: 26.5.3.2(c)). Shotcrete shall be maintained at a temperature of at least 40°F for the same period of time as noted for concrete and kept in the moist condition during curing periods in accordance to IBC 1908.9 All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
In-situ strength verification	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.

Welding of Reinforcing Steel (IBC Table 1705.3):

Item	Frequency	Detailed Instructions
Verification of weldability	Periodic	Verify weldability of reinforcing steel other than A706 based upon carbon equivalent and in accordance with AWS D1.4. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Single-pass fillet welds, 5/16" max	Periodic	
All other welds	Continuous	

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Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

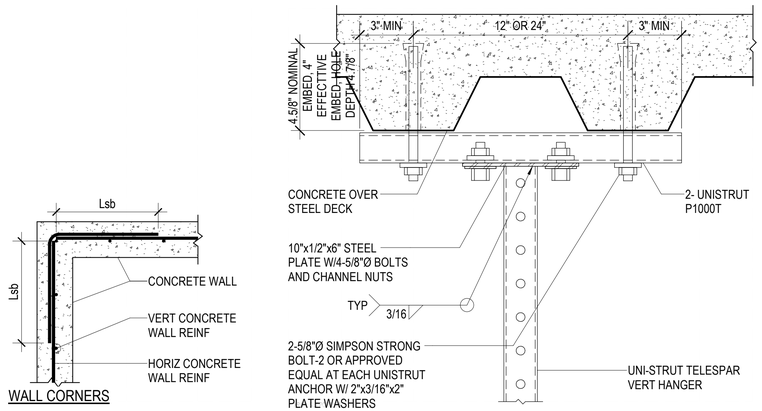
DATE	REVISION

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. #175779
MARK W. HARRIS
UTAH
01/22/2020

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

LEGENDS & ABBREVIATIONS

S002



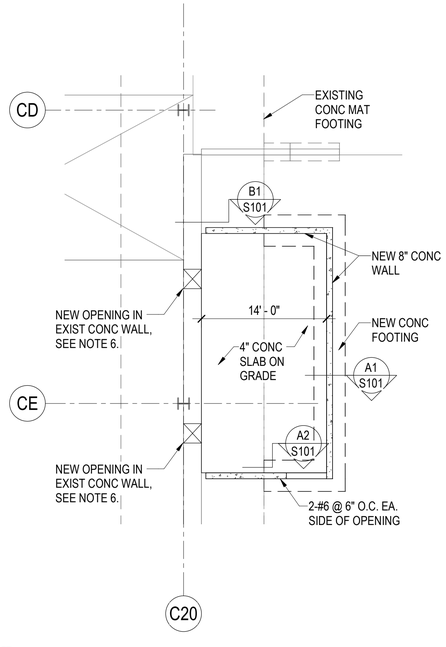
WALL CORNERS

C2 S101 TYPICAL CONCRETE WALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS (PLAN VIEWS)

NO SCALE

C3 S101 UNISTRUT CONNECTION DETAIL

NO SCALE

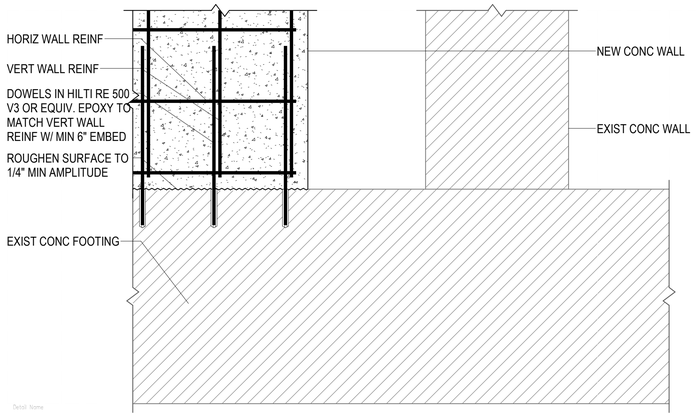


B4 S101 FOOTING & FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

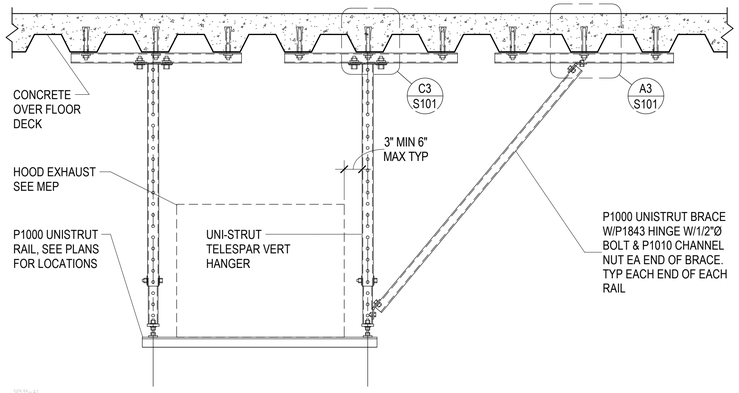
EXISTING BUILDING NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO AND INCLUDING BUT NO LIMITED TO: BIDDING AND ESTIMATING, DETAILING, FABRICATING, MANUFACTURING, ERECTING, INSTALLING, SHORING, DEMOLISHING, OR REMOVING ANY GIVEN STRUCTURAL ELEMENT.
2. INFORMATION OF EXISTING CONDITIONS PROVIDED HEREIN IS BASED ON LIMITED INFORMATION GATHERED FROM RECORD STRUCTURAL DRAWINGS BY REAVELEY ENGINEERS AND ASSOCIATES DATED JUNE 18, 2004, AND IS PROVIDED FOR INFORMATION PURPOSES ONLY, CONTRACTOR TO FIELD VERIFY.
3. IF CONDITIONS SHOWN DO NOT MATCH EXISTING CONDITIONS CONTACT ENGINEER AS SOON AS POSSIBLE. DO NOT PROCEED WITH WORK UNLESS OTHERWISE INSTRUCTED IN WRITING BY ENGINEER.
4. CONTRACTOR SHALL PROTECT EXISTING BUILDING STRUCTURE AND FINISHES AT ADJACENT PROPERTIES PRIOR TO COMMENCING ANY DEMOLITION, EXCAVATION, REMOVAL, AND NEW CONSTRUCTION WORK, COORDINATE WITH ARCHITECT.
5. CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROLS AS REQUIRED TO PERFORM NEW WORK, COORDINATE WITH ARCHITECT.
6. FOR NEW OPENINGS IN EXISTING CONCRETE WALL THE CONTRACTOR SHALL:
   A. NON-DESTRUCTIVELY LOCATE EXISTING WALL REINFORCING USING GROUND PENETRATING RADAR PRIOR TO INSTALLING NEW OPENINGS IN EXISTING CONCRETE WALL. CONTRACTOR SHALL LOCATE NEW OPENINGS IN EXISTING WALL AS REQUIRED TO MINIMIZE THE NUMBER OF VERTICAL AND HORIZONTAL WALL REINFORCING BEING REMOVED. LOCATE NEW OPENINGS SUCH THAT A MINIMUM 1-1/2" CONCRETE COVER IS PROVIDED AT EDGES OF NEW OPENINGS.
   B. COORDINATE LOCATIONS OF NEW OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
   C. CORE CORNERS OF NEW OPENINGS, DO NOT OVERCUT OPENINGS.
   D. PROVIDE SMOOTH AND STRAIGHT EDGES IN NEW OPENINGS.
   E. PROVIDE SQUARE CORNERS OF NEW OPENINGS.



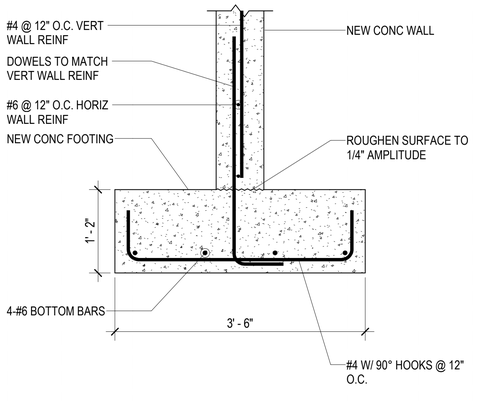
B1 S101 NEW CONCRETE WALL TO EXISTING CONCRETE FOOTING

NO SCALE



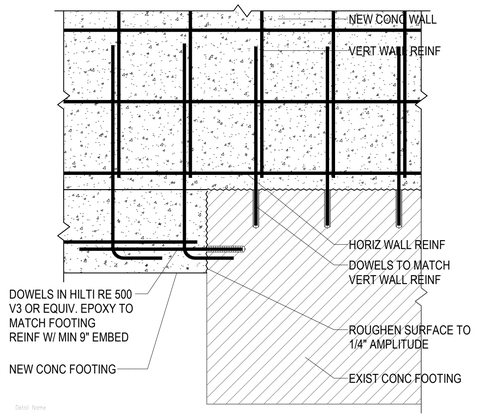
B2 S101 HOOD EQUIPMENT SUPPORT DETAIL

NO SCALE



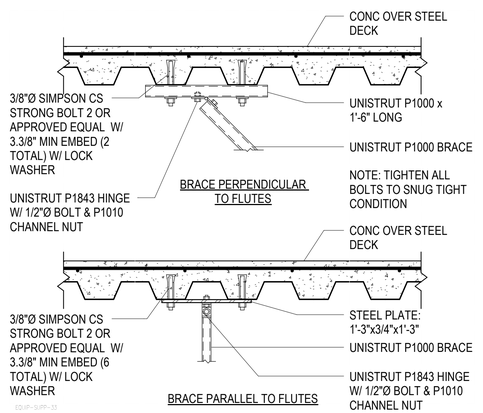
A1 S101 TYPICAL NEW CONCRETE WALL AND FOOTING CONNECTION

NO SCALE



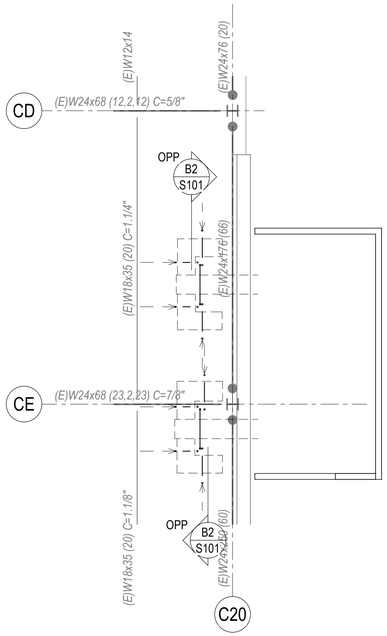
A2 S101 NEW CONCRETE WALL AND FOOTING AT EXISTING FOOTING

NO SCALE



A3 S101 TYPICAL UNISTRUT CONNECTION TO CONC SLAB OVER FLOOR DECK

NO SCALE



A4 S101 LOWER LEVEL 1 FRAMING PLAN

SCALE: 1/8" = 1'-0"

JRCA ARCHITECTS
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ph: (801) 533-2100
jrcadesign.com

Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

DATE	REVISION

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO #175779
MARK R HARRIS
UTAH
01/22/2020

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

STRUCTURAL PLANS & DETAILS

S101

C:\Revit Models\2020-025 IMC Dietary Rm Serv Remodel\2020-025 IMC Dietary Rm Serv Remodel-R19-Central_janderson.rvt

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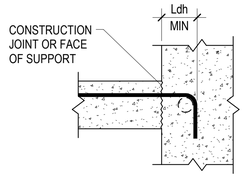


TENSION HOOK DEVELOPMENT LENGTH (Ldh)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"
#5	10"	9"	8"	8"	7"
#6	12"	10"	10"	9"	8"
#7	14"	12"	11"	11"	10"
#8	16"	14"	13"	12"	11"
#9	18"	15"	14"	14"	13"
#10	20"	17"	16"	15"	14"
#11	22"	19"	18"	17"	16"
#14	37"	32"	31"	29"	27"
#18	50"	43"	41"	39"	35"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   SIDE COVER ≥ 2.1/2"
   END COVER ≥ 2"

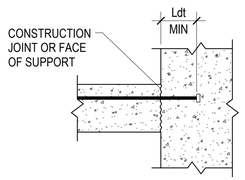
2. MULTIPLY VALUES IN SCHEDULE BY 1.33 FOR LIGHTWEIGHT CONCRETE

3. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR

Sched - Tension Hook

B1 S601 TENSION HOOK DEVELOPMENT SCHEDULE

NO SCALE



TENSION HEADED BAR DEVELOPMENT LENGTH (Ldt)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	7"	6"	6"	6"	6"
#4	9"	8"	8"	7"	7"
#5	11"	10"	9"	9"	8"
#6	14"	12"	11"	11"	10"
#7	16"	14"	13"	12"	11"
#8	18"	16"	15"	14"	13"
#9	20"	18"	17"	16"	14"
#10	23"	20"	19"	18"	16"
#11	25"	22"	21"	20"	18"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   A. CLEAR COVER OF BAR ≥ 2*db. WHERE db IS BAR DIAMETER IN INCHES
   B. CLEAR SPACING BETWEEN BARS ≥ 4*db
   C. NET BEARING AREA OF HEAD Abrg ≥ 4*Ab, WHERE Ab IS AREA OF BAR

2. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR.

3. FOR GRADE 60 REINFORCING ONLY.

Sched - Tension Headed

B2 S601 TENSION HEADED BAR DEVELOPMENT SCHEDULE

NO SCALE

Sched - Rebar Splice

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE																						
BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI				f'c = 4500 PSI				f'c = 5000 PSI				f'c = 6000 PSI				f'c = ALL	
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA

NOTES:
1. DEFINITIONS:
   Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
      SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
      BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
   Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
   Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
   Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
   Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
   Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
   db: NOMINAL BAR DIAMETER (INCHES)
   TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW

2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.

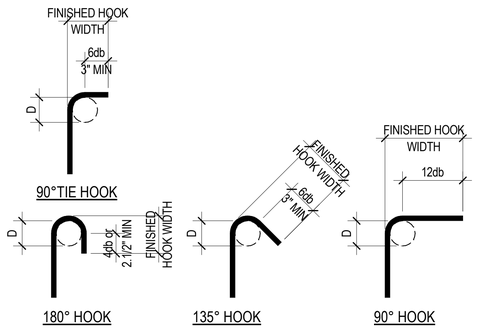
3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.

4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.

5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

6. SCHEDULE LENGTHS ARE FOR fy=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR fy=75ksi REINFORCING.

7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.



END HOOK SCHEDULE					
BAR SIZE	D	FINISHED HOOK WIDTH			
		180° HOOK	135° HOOK	90° HOOK	90° TIE HOOK
#3	2.1/4"	3"	4.1/4"	6"	4"
#4	3"	4"	4.1/2"	8"	4.1/2"
#5	3.1/4"	5"	5.1/2"	10"	6"
#6	4.1/2"	6"	8"	12"	--
#7	5.1/4"	7"	9"	14"	--
#8	6"	8"	10.1/2"	16"	--
#9	9.1/2"	11.3/4"	--	19"	--
#10	10.3/4"	13.1/4"	--	22"	--
#11	12"	14.3/4"	--	24"	--
#14	18.1/4"	21.3/4"	--	31"	--
#18	24"	28.1/2"	--	41"	--

Sched - End Hooks

A1 S601 REINFORCEMENT END HOOK SCHEDULE

NO SCALE

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ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

Intermountain Medical Center Dietary Room Service Remodel

5121 S COTTONWOOD STREET
MURRAY, UTAH 84107

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

DATE	REVISION

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. #175779
MICHAEL M. HARRIS
UTAH
01/22/2020

CONCRETE SCHEDULES

S601

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

DUCTWORK/GRILLES

- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- ROUND DUCT - RISE
- ROUND DUCT - DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
- 12X12 / 200 — CEILING SUPPLY DIFFUSER
- 22X22 / 200 — CEILING RETURN REGISTER
- 12X12 / 200 — CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
- 24X10 / 200 — SIDEWALL SUPPLY REGISTER
- 24X10 / 200 — SIDEWALL EXHAUST OR RETURN REGISTER
- 12X12 / 200 — CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
- 12X12 / 200 — CEILING AIR GRILLE WITH FLEXIBLE DUCT

  TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.
- CEILING RETURN AIR GRILE W/ SOUND BOOT
- 3-1" SLOTS @ 48" 400 — LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- 12/8 FO — FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12/8 — RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12ø — ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- _UP_ — INCLINED RISE
- _DN_ — INCLINED DROP

  WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.
- W R — R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
- 12/12 8/8 — RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
- 12/12 12ø — RECTANGULAR TO ROUND DUCT TRANSFORMATION
- R 6 — BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- 1.5D 1.25D 45° D D — TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- 12Ø 12/12 — HIGH EFFICIENCY FITTING
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
- SD — SMOKE DAMPER W/ ACCESS PANEL
- BDD — BACK DRAFT DAMPER
- ATC OR — ATC DAMPER
- AD — ACCESS PANEL IN DUCT OR PLENUM
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- SD — DUCT SMOKE DETECTOR

PIPING

- OR — SHUT OFF VALVE
- OR — BALL VALVE
- OR — BUTTERFLY VALVE
- MOTOR OPERATED BUTTERFLY VALVE
- OR — GATE VALVE
- GATE VALVE - NON RISING STEM
- OR — ANGLE VALVE
- OR — GLOBE VALVE
- OR — PLUG VALVE
- SHUT OFF PLUG VALVE FOR FOR USE WITH PRESSURE GAUGE
- OR — CHECK VALVE
- OR — LATERAL STRAINER WITH BLOW-OFF VALVE. PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- F&T — F&T=FLOAT & THERMOSTATIC
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
- OR — PRESSURE REDUCING VALVE EXTERNAL PRESSURE
- OR — PRESSURE REDUCING VALVE SELF CONTAINED
- OR — ATC - 2 WAY VALVE
- OR — ATC - 3 WAY VALVE
- S — SOLENOID VALVE
- 0.0 GPM OR — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- VENTURI FLOW METER
- GPM LB/HR. — FLOW METER ORIFICE
- OR — RELIEF VALVE
- AIR VENT-MANUAL
- AIR VENT-AUTO
- FLOW SWITCH
- P S — PRESSURE SWITCH
- OR — TEMPERATURE AND PRESSURE TEST PORT
- THERMOMETER WELL
- THERMOMETER - TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT OFF PLUG VALVE
- PRESSURE GAUGE WITH PIGTAIL
- OR — UNION
- OR — FLANGE
- OR — FLEXIBLE EXPANSION JOINT
- REDUCER
- ECCENTRIC REDUCER
- BRANCH - BOTTOM CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - SIDE CONNECTION
- RISE OR DROP
- RISER - DOWN (ELBOW)
- RISER - UP (ELBOW)
- PIPE CAP
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- DN — LEADER INDICATES DOWNWORD SLOPE
- VALVE IN RISE
- OR — 90° ELBOW
- 45° ELBOW
- ALIGNMENT GUIDE
- ANCHOR

PLUMBING

- THERMOSTATIC MIXING VALVE
- HOSE BIBB
- FLOOR SINK
- FLOOR DRAIN
- FCO / COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- CLEAN-OUT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- DEMOLITION

EQUIPMENT

- UNIT HEATER
- INLINE PUMP
- INLINE PUMP
- FAN

FIRE

- HOSE VALVE
- NRS GATE VALVE WITH SUPERVISION
- FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

ANNOTATIONS

- P-1 — PLUMBING FIXTURES
- POINT OF CONNECTION
- A / M-101 — SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
- A / M101 — DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
- EF / 1 — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE IDENTIFICATION
- S — SWITCH
- S — SENSOR
- T — THERMOSTAT
- TN — NIGHT THERMOSTAT

LINETYPES

- AV — ACID VENT
- AW — ACID WASTE
- BBD — BOILER BLOW DOWN
- BF — BOILER FEED WATER
- B — BRINE
- C02 — CARBON DIOXIDE
- CA — COMPRESSED AIR
- CF — CHEMICAL FEED
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- DOMESTIC COLD WATER (DCW)
- DOMESTIC HOT WATER (DHW)
- DOMESTIC HOT WATER RETURN (DHWR)
- DI — DEIONIZED WATER SUPPLY
- DIR — DEIONIZED WATER RETURN
- E(NAME) — EXISTING PIPING
- (NAME) — EXISTING PIPING TO BE REMOVED
- GHR — GLYCOL HEAT RECOVERY PIPING
- G(NAME) — GLYCOL PIPING SOLUTION
- FOR — FUEL OIL RETURN
- FOS — FUEL OIL SUPPLY
- FOV — FUEL OIL VENT
- FVS — FLUSH VALVE SUPPLY
- G — NATURAL GAS
- HG — HOT GAS
- HFR — HELICOPTER FUEL RETURN
- HFS — HELICOPTER FUEL SUPPLY
- HP(NAME) — HIGH PRESSURE DOMESTIC WATER
- HPC — HIGH PRESSURE CONDENSATE
- HPS — HIGH PRESSURE STEAM
- HWR — HEATING HOT WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- IA — INSTRUMENT AIR
- IA 120 — INSTRUMENT AIR AT PRESSURE INDICATED
- ICW — INDUSTRIAL COLD WATER
- IHW — INDUSTRIAL HOT WATER
- IHWR — INDUSTRIAL HOT WATER RETURN
- ISCW — INDUSTRIAL SOFT COLD WATER
- LA — LAB AIR
- LV — LAB VACUUM
- LPC — LOW PRESSURE CONDENSATE
- LPG — LIQUIFIED PETROLEUM GAS
- LPS — LOW PRESSURE STEAM
- LW — LAB WATER
- LWR — LAB WATER RETURN
- MA — MEDICAL AIR
- MA 120 — MEDICAL AIR AT PRESSURE INDICATED
- MPC — MEDIUM PRESSURE CONDENSATE
- MPS — MEDIUM PRESSURE STEAM

LINETYPES CONT.

- MUW — MAKE UP WATER
- MV — MEDICAL VACUUM
- N — NITROGEN
- N20 — NITROUS OXIDE
- OX — MEDICAL OXYGEN
- OX 120 — MEDICAL OXYGEN AT PRESSURE INDICATED
- PC — PUMPED CONDENSATE
- RO — REVERSE OSMOSIS WATER SUPPLY
- ROR — REVERSE OSMOSIS WATER RETURN
- RD — ROOF DRAIN
- RDO — ROOF DRAIN OVERFLOW
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- SEWER (BELOW GRADE)
- SEWER (ABOVE GRADE)
- SW — SOFT DOMESTIC WATER
- TW — TEMPERED WATER
- TWR — TEMPERED WATER RETURN
- V — VACUUM
- VENT (SEWER)

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

Permit Review Set
12/20/2019

DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 178893
DONALD K. BRADSHAW
STATE OF UTAH

MECHANICAL SYMBOLS AND LEGEND

ME000

BIDDING DOCUMENTS - NOT FOR cONSTRUCTION

MEDICAL GAS GENERAL NOTES

1. MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE. COORDINATE PIPING ROUTING WITH ALL OTHER POSSIBLE CONFLICTS SUCH AS DUCTWORK, DIFFUSERS, OTHER PIPING, LIGHTS, CONDUIT, STRUCTURE, ETC.
2. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
3. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
4. MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
6. MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.

FIRE PROTECTION GENERAL NOTES

1. NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN THE FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3. COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
4. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED, IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS. COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.

PLUMBING GENERAL NOTES

1. UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4. ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
6. COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL LOCATIONS.
7. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
8. PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING, IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
10. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
11. LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
12. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
13. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
14. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
15. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
16. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
17. COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
18. COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL..
19. ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
20. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
21. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
22. COORDINATE EXACT LOCATION OF PLUMBING PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND FIRE PROTECTION PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
23. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24"X24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING.
24. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
25. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING.
    a) SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
    b) LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.
    c) LOCATE AT THE BASE OF EACH VERTICAL STACK.

MECHANICAL PIPING GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
3. WHERE VALVING OR EQUIPMENT IS LOCATED ABOVE HARD CEILINGS PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24"X24".
4. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
5. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
6. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
7. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
8. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
9. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
10. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
11. PROVIDE ISOLATION VALVES AT EACH EXIT/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
12. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
13. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL.
14. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

MECHANICAL GENERAL NOTES

1. COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
2. SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
3. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4. COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
5. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. SEE SPECIFICATION, TYPICAL.
6. THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
7. PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
8. INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE, SEE DETAILS, TYPICAL.
9. CONTRACTOR SHALL OFF-SET, TRANSITION AND PROVIDE CHANGES AS REQUIRED FOR COORDINATION WITH OTHER TRADES, TYPICAL.
10. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER.
11. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS, SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
12. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK.
13. PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
14. WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
15. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
16. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
17. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
18. ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
19. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MIN. 24" X 24".
20. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
21. ALL DUCTWORK ABOVE HARD CEILINGS SHALL BE EXTENDED ALL THE WAY TO THE SUPPLY DIFFUSERS, RETURN GRILLS OR EXHAUST GRILLS WHETHER OR NOT HARD DUCT OR FLEX DUCT IS SHOWN ON PLANS. FLEX DUCT WILL NOT BE ALLOWED TO DIFFUSERS OR GRILLS ABOVE HARD CEILINGS. FLEX DUCT WILL BE REQUIRED IN AREAS ABOVE T-BAR CEILINGS.
22. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
23. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
24. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24"X24" ACCESS DOOR.

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Intermountain IMC Dietary Room Service Remodel
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PROJECT #: 19022

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REGISTERED PROFESSIONAL ENGINEER
No. 178893
DONALD K. BRADSHAW
STATE OF UTAH

MECHANICAL GENERAL NOTES

ME001

BIDDING DOCUMENTS - NOT FOR cONSTRUCTION

1 MD101 DEMO MAIN LEVEL MECHANICAL PLAN
SCALE 1/4" = 1'-0"

PROJECT NORTH

0" 4' 8'

KEYED NOTES

1. ITEMS SHOWN LIGHT TO REMAIN. ITEMS CROSSED OUT TO BE REMOVED. FIELD VERIFY EXISTING CONDITIONS. CAP ALL DUCT AND PIPING RUNS NOT EXTENDED IN NEW WORK.

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DEMO MAIN LEVEL MECHANICAL PLAN

MD101

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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KEYED NOTES

1. EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
2. CONNECT TO EXISTING DUCT AT APPROXIMATELY THIS POINT. FIELD VERIFY. TYPICAL.
3. PROVIDE CURB FOR MOUNTING OF FAN ON VERTICAL WALL. ASSURE THAT CURB, FAN AND MOUNTING METHOD ARE SUFFICIENTLY STRONG TO HOLD FAN UNDER NORMAL AND SEISMIC CONDITIONS. USE SEISMIC IMPORTANCE FACTOR OF 1.5".
4. PROVIDE TWO LAYERS OF 1-1/2" THICK FIRE PROTECTION INSULATING WRAP ON KITCHEN EXHAUST DUCTWORK. PROVIDE ACCESS DOORS INTO EXHAUST DUCT FOR CLEANING AND INSPECTION.
5. DROP DOWN INTO EXHAUST HOOD.
6. REBALANCE AIRFLOW IN MANAGER, ORDER CENTER AND DIRECTOR ROOMS TO CFM SHOWN.

1 MH101 MAIN LEVEL MECHANICAL PLAN
SCALE 1/4" = 1'-0"

PROJECT NORTH

0" 4' 8'

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MAIN LEVEL MECHANICAL PLAN

MH101

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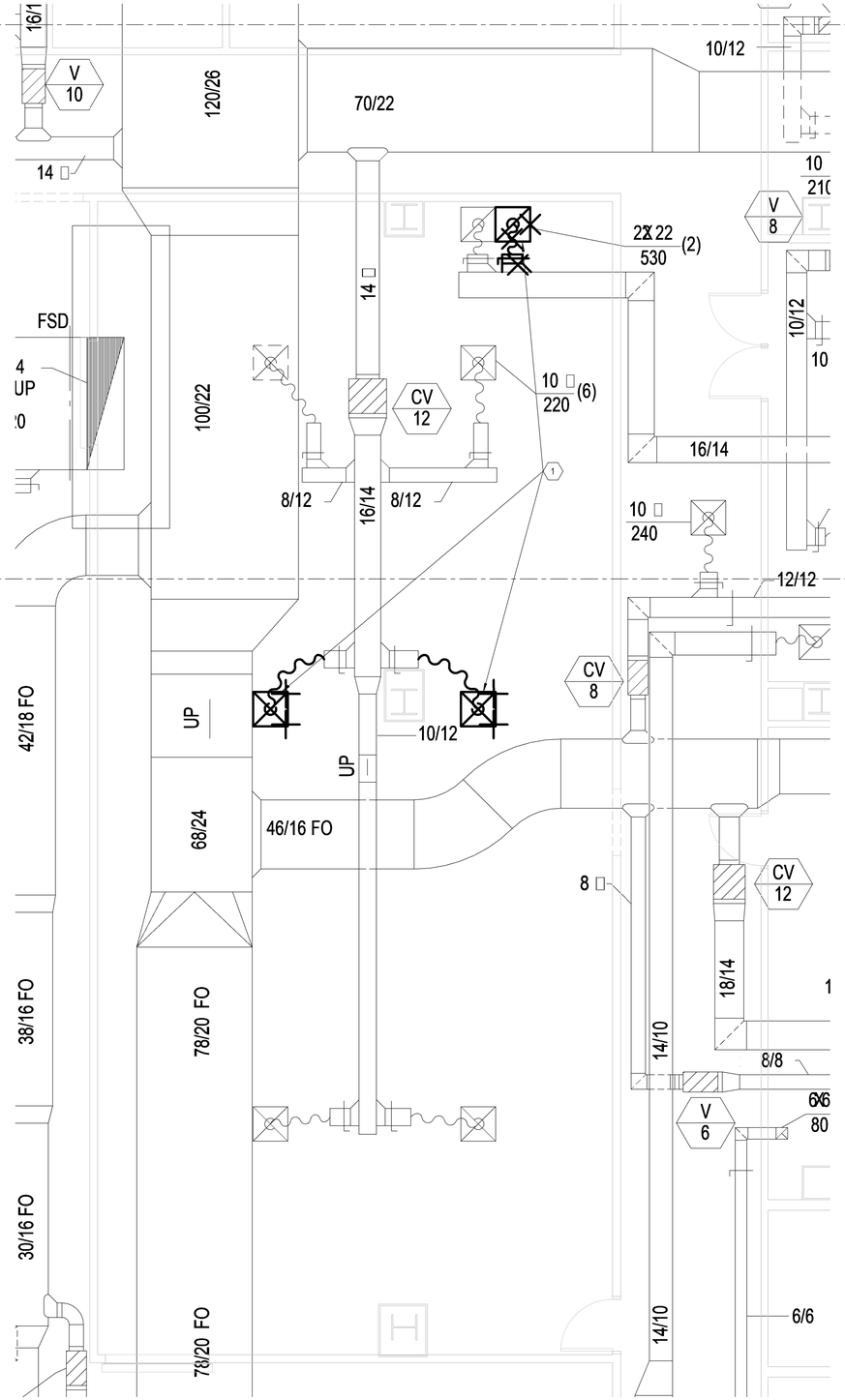
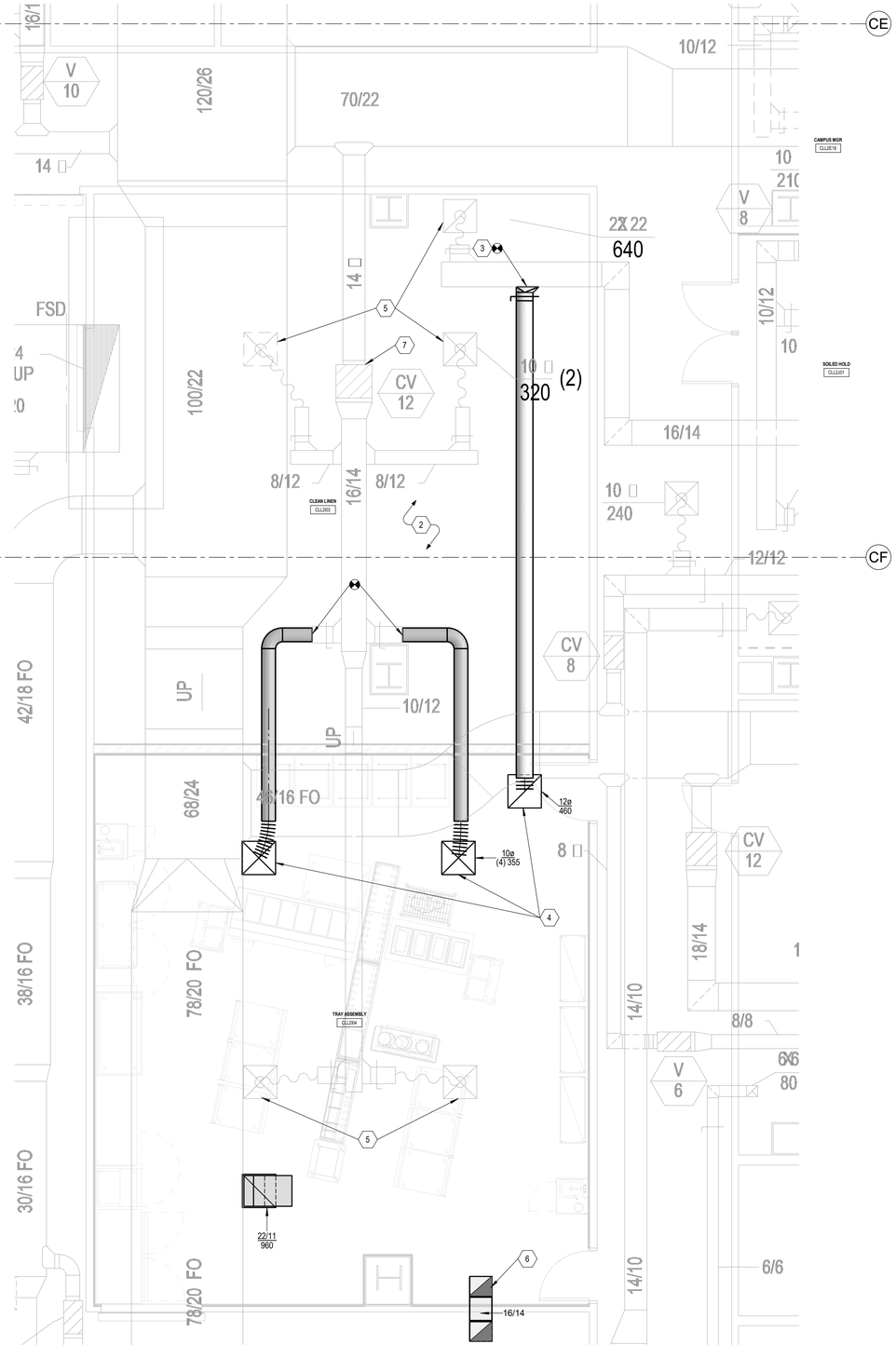


1 MH102 DEMO TEMPORARY PREPERATION MECHANICAL PLAN

SCALE 1/4" = 1'-0"



2 MH102 TEMPORARY PREPERATION MECHANICAL PLAN

SCALE 1/4" = 1'-0"

PROJECT NORTH

0" 4' 8'

KEYED NOTES

1. REMOVE DIFFUSER/GRILLE FROM CURRENT CONFIGURATION. CLEAN AND PRESERVE FOR REINSTALLATION IN TEMPORARY PREP SPACE.
2. EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
3. CONNECT TO EXISTING DUCT AT APPROXIMATELY THIS POINT. FIELD VERIFY. TYPICAL.
4. REINSTALL DIFFUSER/GRILLE AS SHOWN.
5. REBALANCE EXISTING DIFFUSER./GRILLE TO CFM SHOWN.
6. PROVIDE TRANSFER AIR DUCT W/ SOUND BOOT INTO ADJACENT SPACE. POINT INLET/OUTLET TOWARDS DECK ABOVE. SEE MECHANICAL DETAILS.
7. REBALANCE EXISTING VAV BOX TO SUPPLY ADDITIONAL COOLING AIR TO TEMPORARY PREP SPACE.

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TEMPORARY PREPERATION MECHANICAL PLANS

MH102

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KEYED NOTES

1. EXISTING SHOWN LIGHT TO REMAIN. ITEMS CROSSED OUT TO BE REMOVED. CAP ALL UNUSED PIPING. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.

HPC
HPS
1 1/4"
HWR
4"
155.0 GPM
CHWS
CHWR
HWS
HWR
6"
3/4"
161.0 GPM
V 10
V 8
1 1/2"
1 1/4"
1"
6"
GHWS UP/DN
GHWR UP/DN
CHWS UP
CHWR UP
HWR UP
HWS UP
114.0 GPM
V 6
3"
LPC
2 1/2"
CV 6
CV 8
ST C-1
ST C-2
V 12
LPS
HWR
HWS
2"
CD
CE
CF
C18
C19
C20

1 DEMO MAIN LEVEL MECHANICAL PIPING PLAN
MPD101 SCALE 1/4" = 1'-0"

PROJECT NORTH

0" 4' 8'

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DEMO MAIN LEVEL MECHANICAL PIPING PLAN

MPD101

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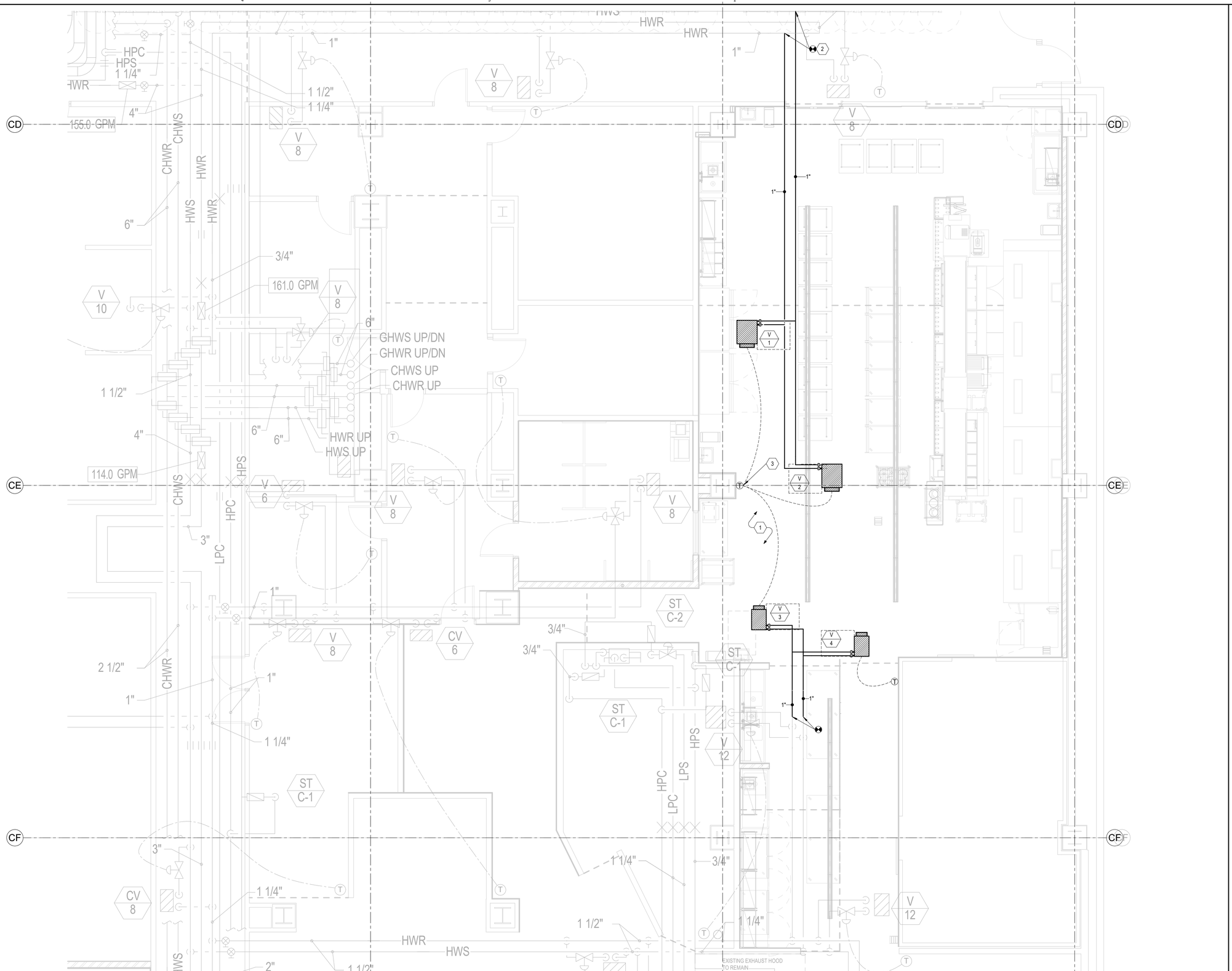

1 MP101 MAIN LEVEL MECHANICAL PIPING PLAN

SCALE 1/4" = 1'-0"

KEYED NOTES

1. EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
2. CONNECT TO EXISTING PIPING AT APPROXIMATELY THIS POINT. FIELD VERIFY. TYPICAL.
3. NEW THERMOSTAT. COORDINATE EXACT PLACEMENT OF THERMOSTAT WITH ARCHITECTURAL ELEVATIONS, TYPICAL.

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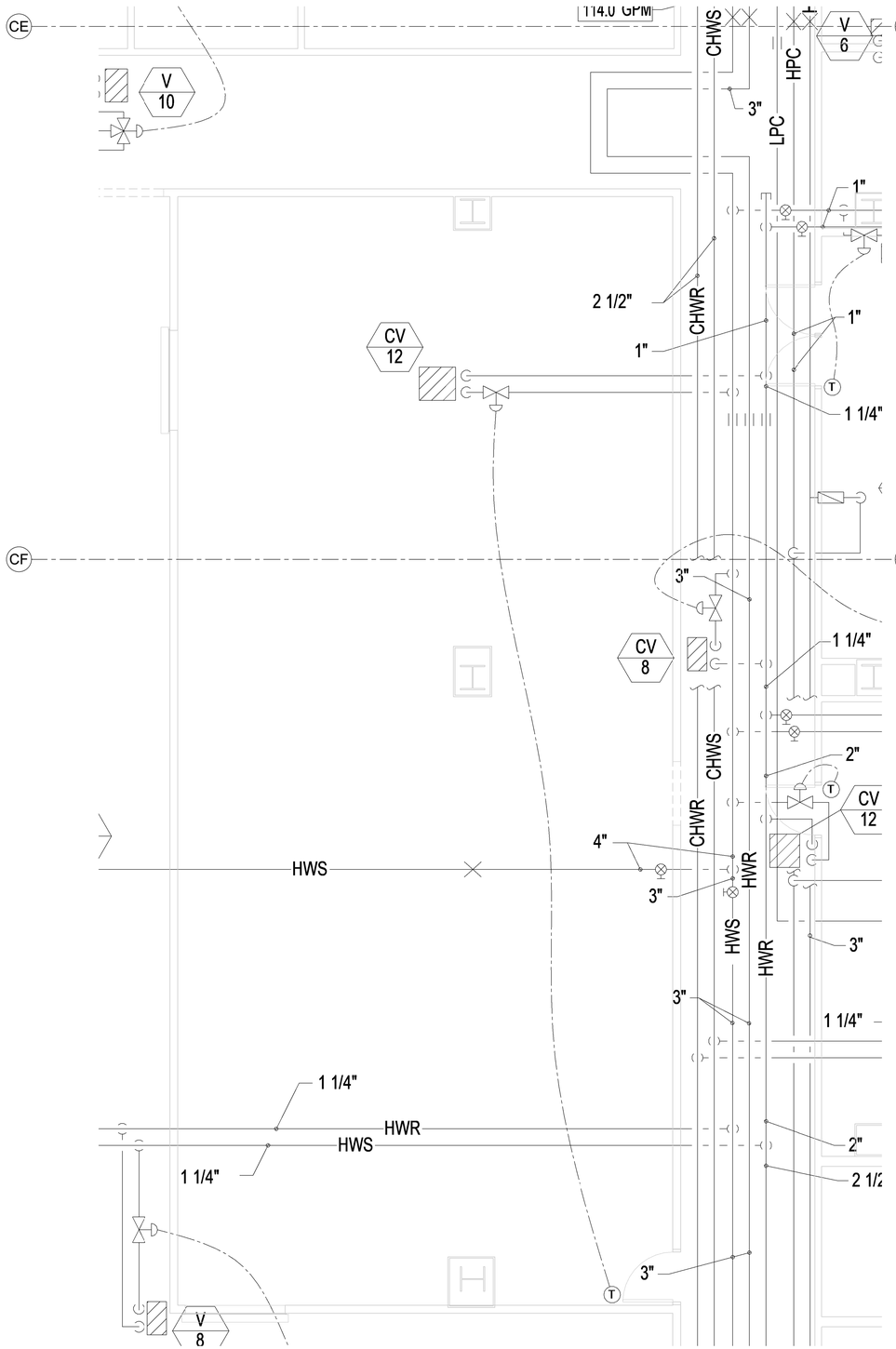
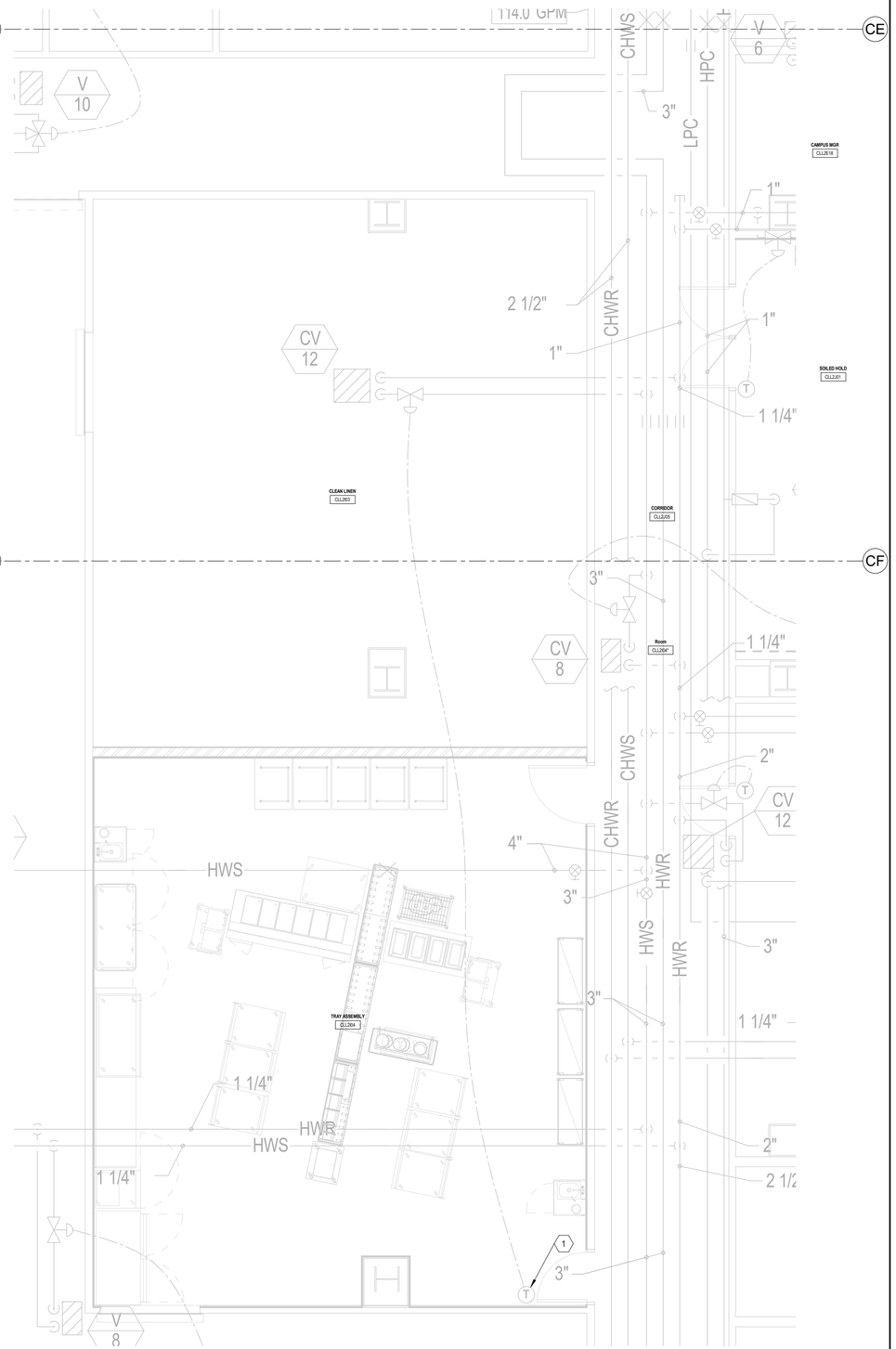


1 MP102 DEMO TEMPORARY PREPERATION MECHANICAL PIPING PLAN

SCALE 1/4" = 1'-0"



2 MP102 TEMPORARY PREPERATION MECHANICAL PIPING PLAN

SCALE 1/4" = 1'-0"

KEYED NOTES

1. VERIFY LOCATION OF EXISTING THERMOSTAT TO BE IN TEMPORARY PREP SPACE. MOVE TO LOCATION SHOWN IF NECESSARY.

0" 4' 8'

PROJECT NORTH

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TEMPORARY PREPERATION MECHANICAL PIPING PLANS

MP102

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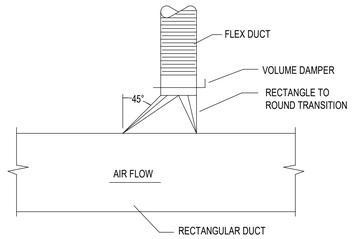
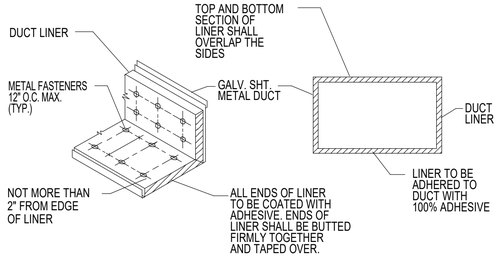
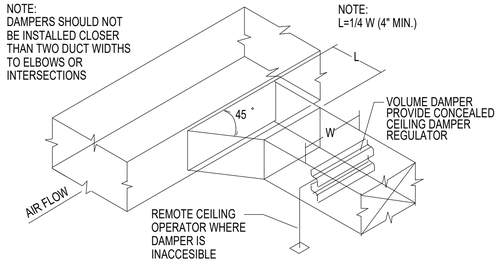


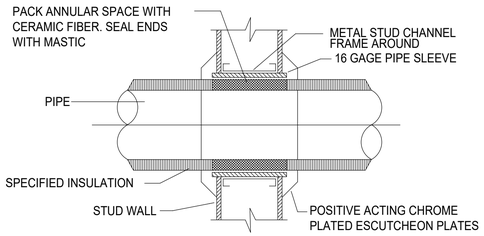
8 / 30X42 HIGH EFFICIENCY TAKE-OFF DETAIL
NO SCALE



4 / 30X42 DUCT LINER DETAIL
NO SCALE

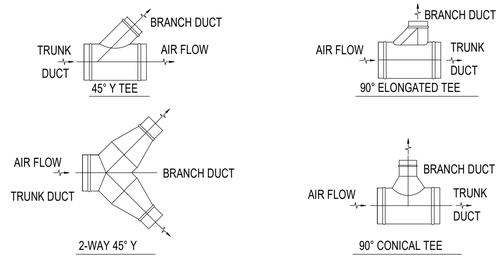


1 / 30X42 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
NO SCALE

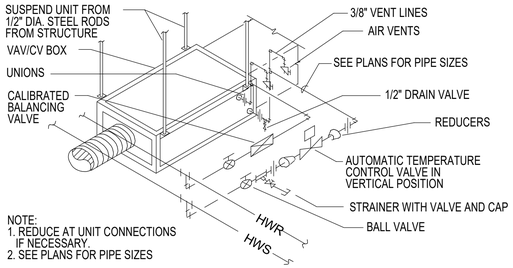


NOTE: OMIT ESCUTCHEON PLATES FOR CONCEALED PIPES.

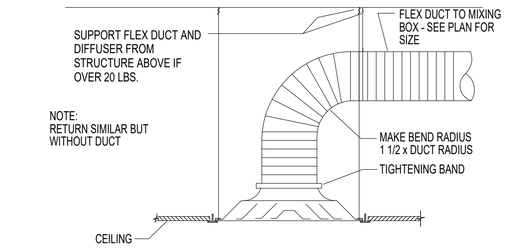
9 / 30X42 PIPE THROUGH STUD WALL DETAIL
NO SCALE



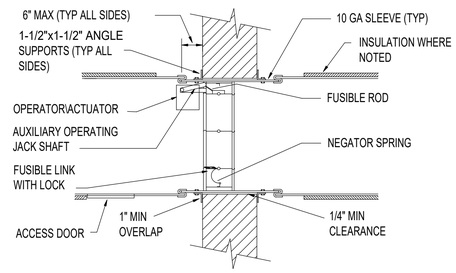
5 / 30X42 ROUND DUCT BRANCH TAKE-OFF DETAILS
NO SCALE



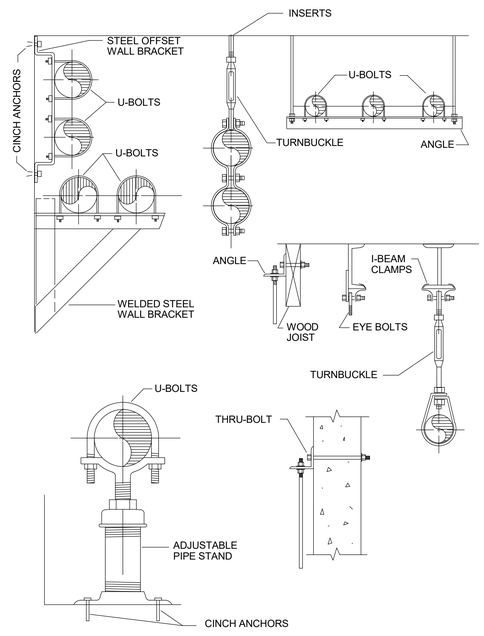
2 / 30X42 VAV/CV BOX PIPING DETAIL WITH 2-WAY AUTO-VALVE
NO SCALE



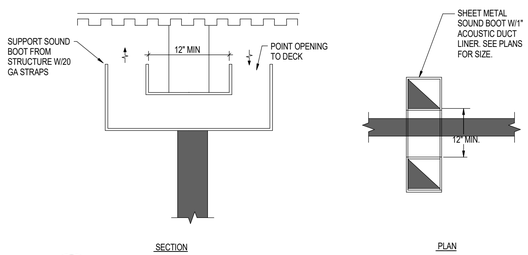
10 / 30X42 DIFFUSER CONNECTION DETAIL
NO SCALE



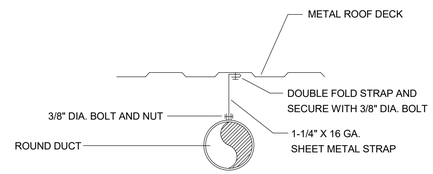
6 / 30X42 COMBINATION FIRE SMOKE DAMPER DETAIL
NO SCALE



3 / 30X42 TYPICAL PIPE SUPPORT DETAIL
NO SCALE



11 / 30X42 R.A. TRANSFER BOOT DETAIL
NO SCALE



NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

7 / 30X42 ROUND DUCT SUPPORT DETAIL
NO SCALE

SEISMIC RESTRAINT DETAILS SHOWN AS EXAMPLE ONLY. SEE SPECIFICATIONS FOR RESTRAINT REQUIREMENTS

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Intermountain IMC Dietary Room Service Remodel
5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

Permit Review Set 12/20/2019	
DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 178893
DONALD K. BRADSHAW
STATE OF UTAH

Mechanical Details

MM501

BIDDING DOCUMENTS - NOT FOR cONSTRUCTION

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FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: STATIC PRESSURE (IN. H2O)	FAN: FAN SPEED (RPM)	FAN: FAN WHEEL DIA. (IN)	FAN: STATIC EFFICIENCY (%)	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: MOTOR BHP (HP)	ELECTRICAL: MOTOR SPEED (RPM)	ELECTRICAL: VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
DEF-1	COOK 195V17D	KITCHEN	WALL	KITCHEN EXHAUST	4480	1.5	1587	17	60	5	1.96	1725	460/3/60	39/39/32	1,2
DEF-2	COOK 195V17D	KITCHEN	WALL	KITCHEN EXHAUST	4032	1	1390	17	57	5	1.33	1725	460/3/60	39/39/32	1,2

1. CLASS II FAN
2. ON EMERGENCY POWER.

VAV BOX SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	INLET SIZE (IN)	AIR: COOLING MAXIMUM AIR (CFM)	AIR: HEATING MAXIMUM AIR (CFM)	AIR: MINIMUM AIR (CFM)	ENTERING AIR TEMP. DB (DEG. F)	LEAVING AIR TEMP. DB (DEG. F)	S.P. LOSS AT MAX CFM (IN H20)	NC AT 1" H2O S.P.	FLUID (2): HEAT LOAD (MB)	TOTAL FLUID FLOW (GPM)	ENT. FLUID TEMP (DEG. F)	WORKING FLUID	MAX. FLUID PRESSURE DROP (FT)	COIL: MIN. COIL ROWS	COIL: PIPE SIZE (IN)	BALANCING VALVE SIZE (IN)	REMARKS
V-1	TITUS-ESV-3	16	2760	2760	2760	52	95	0.7	28	109	5	180	H. WATER	1.5	2	1	3/4	1,2,3
V-2	TITUS-ESV-3	16	2760	2760	2760	52	95	0.7	28	109	5	180	H. WATER	1.5	2	1	3/4	1,2,3
V-3	TITUS-ESV-3	12	1380	1380	1380	52	95	0.65	26	54.5	3.5	180	H. WATER	1	2	3/4	3/4	1,2,3
V-4	TITUS-ESV-3	12	1380	1380	1380	52	95	0.65	26	54.5	3.5	180	H. WATER	1	2	3/4	3/4	1,2,3

1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89
2. MAXIMUM STATIC PRSSURE DROP PERMISSABLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
3. CONSTANT VOLUME VAV BOX.

GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	DESCRIPTION	
CD-1	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE APPLICATION: ENGINEERED VAV SYSTEMS MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
RG-1	EH PRICE	PDDR	FACE STYLE: PERFORATED RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. APPLICATION: AIR RETURN MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) DAMPER: NONE MAX NC - 30 REMOVABLE FACE & CORE
EG-1	EH PRICE	80	FACE STYLE: CRATE RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE APPLICATION: PRESSURIZED AIR RETURN MATERIAL: ALUMINUM FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) DAMPER: OPPOSED BLADE MAX NC - 30 REMOVABLE FACE & CORE

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REGISTERED PROFESSIONAL ENGINEER
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DONALD K. BRADSHAW
STATE OF UTAH

MECHANICAL SCHEDULES

MM601

BIDDING DOCUEMENTS - NOT FOR cONSTRUCTION

KEYED NOTES

1. REMOVE PIPING SHOWN CROSSED OUT, TYPICAL.
2. SAWCUT FLOOR TO DEMOLISH WASTELINE BACK TO MAIN. CAP PIPE AND PATCH FLOOR TO MATCH EXISTING.

1 PD101 DEMO MAIN LEVEL PLUMBING PLAN
SCALE 1/4" = 1'-0"

PROJECT NORTH

0" 4' 8'

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DEMO MAIN LEVEL PLUMBING PLAN

PD101

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

KEYED NOTES

1. GAS COCK AND AUTOMATIC SOLENOID GAS SHUT-OFF VALVE. INSTALL BELOW CEILING. INTERLOCK CONTROL OF SOLENOID SHUT-OFF WITH HOOD FIRE SUPPRESSION SYSTEM. SEE KITCHEN EQUIPMENT PLAN FOR SHUT-OFF SWITCH LOCATION.
2. SAWCUT FLOOR TO INSTALL NEW WASTE PIPING AND FIXTURE. PATCH FLOOR TO MATCH EXISTING.
3. CALIBRATED CIRCUIT SETTER BALANCING VALVE. BALANCE TO VALUE INDICATED.
4. PROVIDE NEW FULL GRATE FOR EXISTING FLOOR SINK.
5. EXISTING FLOOR SINK.
6. GAS PRESSURE REGULATOR. SET OUTLET PRESSURE TO 4 OZ.
7. PROVIDE PRESSURE REGULATOR AS REQUIRED AT EQUIPMENT. ALSO PROVIDE A GAS COCK AT EQUIPMENT FOR INDIVIDUAL ISOLATION.
8. STUBB 1/2" PIPE OUT OF WALL AND PROVIDE ESCUTCHEON AND BALL VALVE FOR EQUIPMENT ISOLATION.
9. DROP 1/2" WATER LINE FOR DRINK DISPENSER DOWN UTILITY CHASE.

1 PP101 MAIN LEVEL PLUMBING PLAN
SCALE 1/4" = 1'-0"

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STATE OF UTAH

MAIN LEVEL PLUMBING PLAN

PP101

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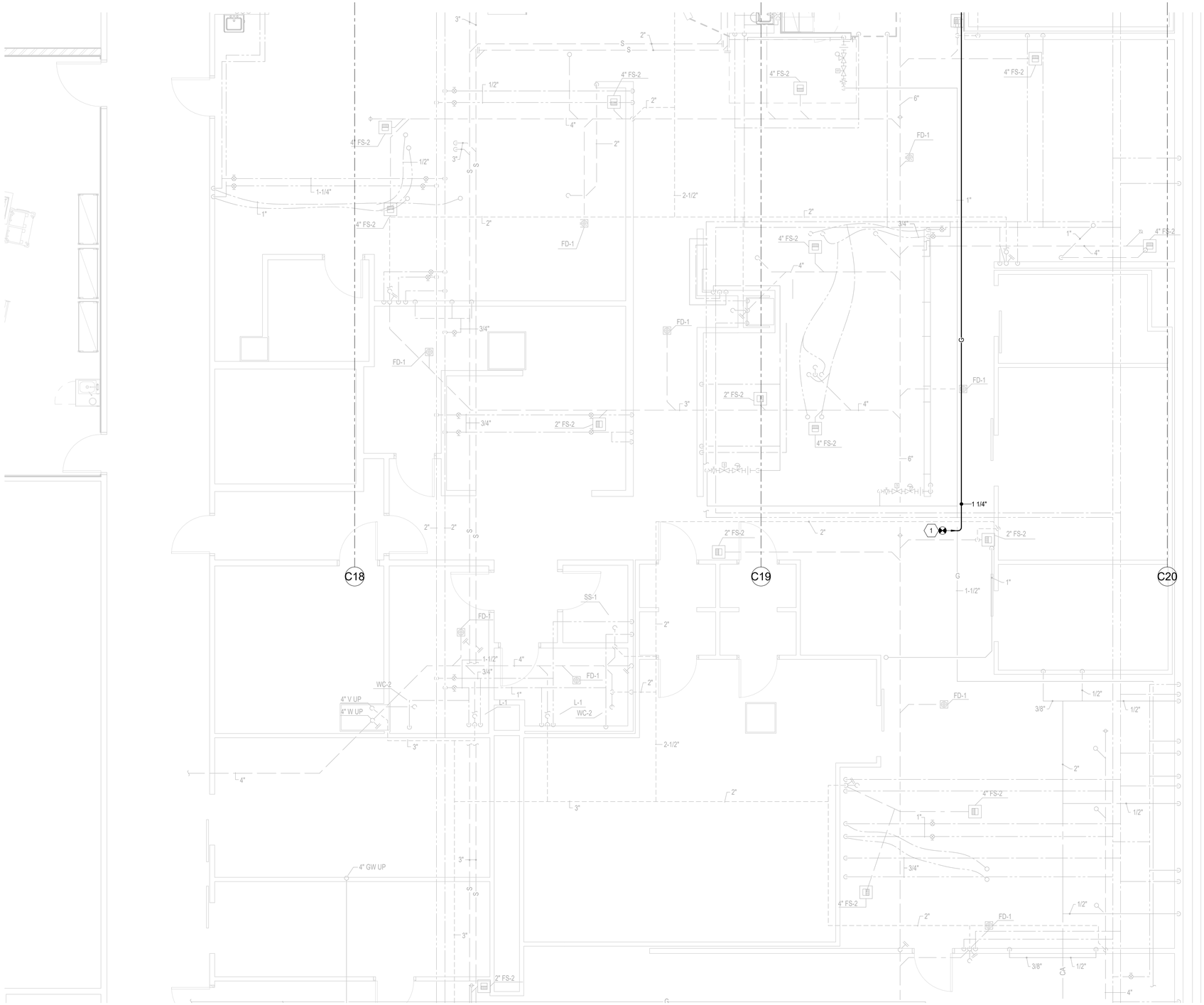

1 PP102 MAIN LEVEL PLUMBING PLAN Copy 1
SCALE 1/4" = 1'-0"

PROJECT NORTH

0" 4' 8'

KEYED NOTES

1. TIE INTO EXISTING GAS LINE WHERE EXISTING LINE IS 1-1/2" OR LARGER.

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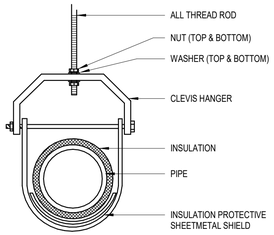
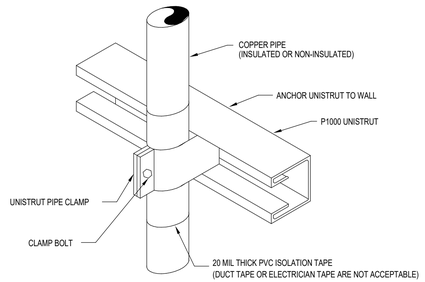
MAIN LEVEL PLUMBING PLAN

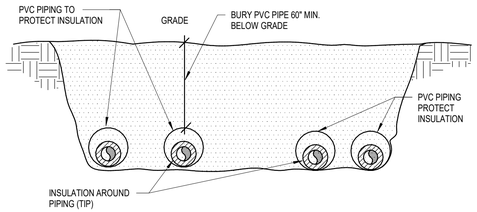
PP102



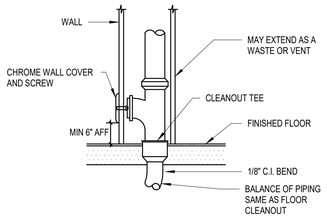
6 PP501 TYPICAL CLEVIS HANGER DETAIL
SCALE 12" = 1'-0"



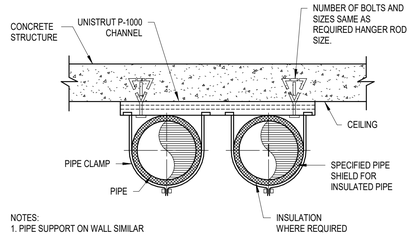
4 PP501 PIPE SUPPORT DETAIL
SCALE 12" = 1'-0"



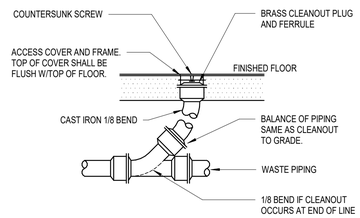
1 PP501 BELOW GRADE PIPING DETAIL
SCALE 12" = 1'-0"



7 PP501 WALL CLEANOUT DETAIL
SCALE 12" = 1'-0"



5 PP501 PIPE SUPPORT ON CEILING
SCALE 12" = 1'-0"



2 PP501 FLOOR CLEANOUT DETAIL
SCALE 12" = 1'-0"

PLUMBING FIXTURE SCHEDULE

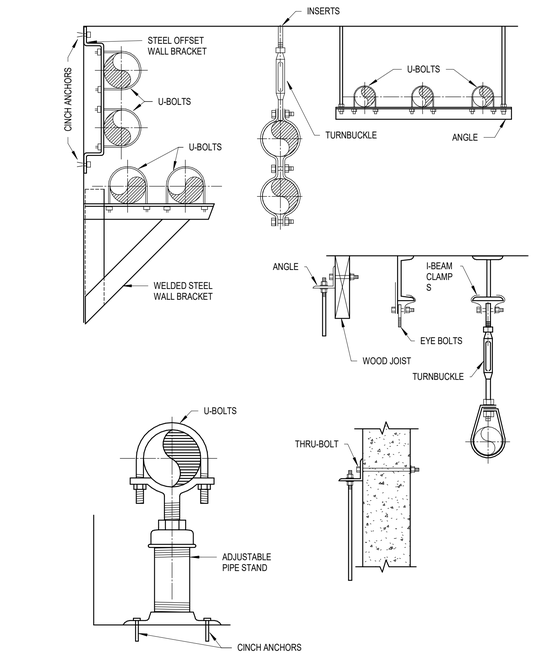
ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	SPECIFICATION
FD-1	FLOOR DRAIN	-.-	-.-	2	2		FLOOR DRAIN: SMITH FIGURE 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6-INCH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE DEEP SEAL TRAP AND TRAP GUARD TYPE TRAP SEAL DEVICE.
FS-1	FLOOR SINK	-.-	-.-	3	2		FLOOR SINK: SMITH FIGURE 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECURED 1/2 GRATE AND ALUMINUM DOME BOTTOM STRAINER.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

KITCHEN PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	CW	HW	W	V	GAS	GAS INPUT BTUH	SPECIFICATION
P1-03	HANDWASH SINK	1/2	1/2	1 1/2	1 1/2	-.-	N/A	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-07A	WATER FILTER SYSTEM	1/2	-.-	-.-	-.-	-.-	N/A	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-14	JUICE DISPENSER	1/2	-.-	-.-	-.-	-.-	N/A	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-25	SINK	1/2	1/2	2	1 1/2	-.-	N/A	FURNISHED BY OTHERS. ROUGH IN AND CONNECT. INDIRECT WASTE TO FLOOR SINK.
P1-26	PASTA COOKER	-.-	-.-	-.-	-.-	3/4	120,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT. INDIRECT WASTE TO FLOOR SINK.
P1-30	3-COMP SCULLERY SINK	1/2	1/2	2	1 1/2	-.-	N/A	FURNISHED BY OTHERS. ROUGH IN AND CONNECT. INDIRECT WASTE TO FLOOR SINK.
P1-33	RO WATER SYSTEM	1/2	-.-	-.-	-.-	-.-		FURNISHED BY OTHERS. ROUGH IN AND CONNECT. INDIRECT WASTE TO FLOOR SINK.
P1-40	CHAR-BROILER	-.-	-.-	-.-	-.-	3/4	72,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-41	GAS RANGE	-.-	-.-	-.-	-.-	1 1/4	1,000,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-42	GRIDDLE	-.-	-.-	-.-	-.-	1 1/4	90,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-43	CONVECTION OVEN	-.-	-.-	-.-	-.-	1	60,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-44	KETTLE	-.-	-.-	-.-	-.-	3/4	53,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-50	2-COMP SCULLERY SINK	1/2	1/2	2	1 1/2	-.-	N/A	FURNISHED BY OTHERS. ROUGH IN AND CONNECT. INDIRECT WASTE TO FLOOR SINK.
P1-54	GAS RANGE	-.-	-.-	-.-	-.-	1	264,000	FURNISHED BY OTHERS. ROUGH IN AND CONNECT
P1-61	COMBINATION OVEN	-.-	-.-	-.-	-.-	3/4	136,500	FURNISHED BY OTHERS. ROUGH IN AND CONNECT. INDIRECT WASTE TO FLOOR SINK.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.



3 PP501 TYPICAL PIPE SUPPORT DETAIL
SCALE 12" = 1'-0"

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PLUMBING DETAILS

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
A5 / E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
X-X / XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
	PROPERTY LINE: DASHED, WIDE LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
X-X / XKP	KITCHEN EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XKP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
1 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD; NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
— X —	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION CCTV = CLOSED CIRCUIT TELEVISION FA = FIRE ALARM FO = FIBER OPTICS I = INTERCOM NC = NURSE CALL P = POWER RC = RIGID CONDUIT S = SOUND T = TELEPHONE TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
HC	ADA ACCESS PUSH PLATE
	JUNCTION BOX.
	EARTH GROUND (ONE-LINE DIAGRAM).
C	JUNCTION BOX, CEILING.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
STRUCTURED CABLING IHC	
00	
01	IHC COMMUNICATIONS DEVICE (1 DATA).
02	IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG).
03	IHC COMMUNICATIONS DEVICE (1 DATA WALL PHONE).
04	IHC COMMUNICATIONS DEVICE (2 DATA).
05 ▼3	IHC COMMUNICATIONS DEVICE (3 DATA).
06 ▼4	IHC COMMUNICATIONS DEVICE (4 DATA).
07 ▼6	IHC COMMUNICATIONS DEVICE (6 DATA).
08 ▽M	IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR (1 DATA).
09 ▼WAP	IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2 DATA).

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, SINGLE: NEMA 5-20R.
	RECEPTACLE, DUPLEX: NEMA 5-20R.
A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
C	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
D	DROP CORD. SEE DETAIL.
	SWITCH, DIMMER.
X $	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
X $3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
X $4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
FIRE ALARM	
CM	CONTROL MODULE.
MM	MONITOR MODULE.
P	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	STROBE.
75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
E	SPEAKER, EVACUATION.
E	SPEAKER, EVACUATION, COMBINATION STROBE.
SD	SMOKE DAMPER.
FSD	FIRE AND SMOKE DAMPER.
75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
SECURITY	
X	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
#1	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
CR	CARD READER.
	DOOR SWITCH, BALANCED MAGNETIC CONTROL.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
MCP	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
GFP	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
"1H"	PANELBOARD (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H" 60/3	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
225/3 "1H" 25/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE
1PH	SINGLE-PHASE
1WAY	ONE-WAY
2/C	TWO-CONDUCTOR
2WAY	TWO-WAY
3/C	THREE-CONDUCTOR
3WAY	THREE-WAY
4OUT	QUADRUPLE RECEPTACLE OUTLET
4PDT	FOUR-POLE DOUBLE THROW
4PST	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
4WAY	FOUR-WAY
A	ABOVE COUNTER
AC	ARMORED CABLE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
AP	ACCESS POINT (WIRELESS DATA)
AR	AS REQUIRED
ASC	AMPS SHORT CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BB XFMR	BUCK-BOOST TRANSFORMER
C	CEILING MOUNTED
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
dBA	UNIT OF SOUND LEVEL
DPDT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EX	EXISTING
F	FURNITURE MOUNTED
FA	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FOB	FREIGHT ON BOARD
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIOANL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OFP	OBTAIN FROM PLANS
OH DR	OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PTZ	PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP	REFLECTED CEILING PLAN
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND RELOCATE
S/S	START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECED BY ARCHITECT
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWIST LOCK
TP	TELEPHONE POLE
TP	TWISTED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UF	UNDERFLOOR
UGND	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
a,b	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
a,b	LOW VOLTAGE DIGITAL DIMMING LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
   A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
   B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
   C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

4. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ELECTRICAL SHEET INDEX

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Intermountain IMC Dietary Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

	DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

EE001

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

C:\Users\mrr\Documents\20190754 Elec Central_mrr@spectrum-engineers.com.rvt

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1 MAIN LEVEL OVERALL ELECTRICAL PLAN
SCALE: 3/32" = 1'-0"

GENERAL SHEET NOTES

⬡ SHEET KEYNOTES

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET 01/22/2020	
DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057913
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

MAIN LEVEL OVERALL ELECTRICAL PLAN

EE101

BIDDING DOCUEMENTS - NOT FOR CONSTRUCTION

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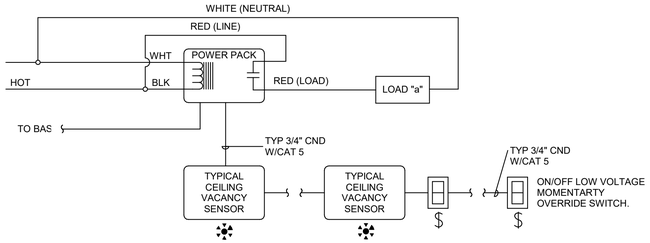
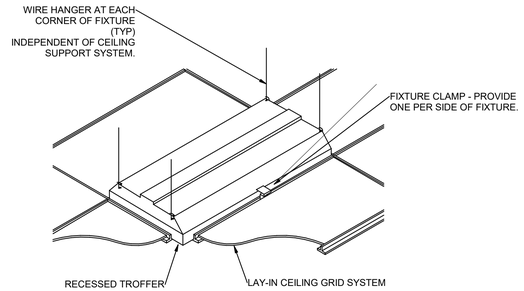


*BASIS OF DESIGN IS NLIGHT OR WATTSTOPPER
**CONTRACTOR IS RESPONSIBLE TO PROVIDE FULLY FUNCTIONAL EQUIVALENT SYSTEMS TO WHAT IS INDICATED HERE.

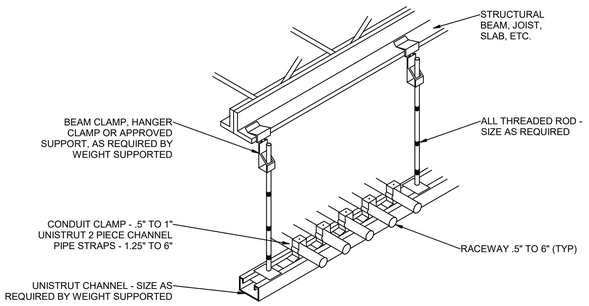
4 TYPICAL CEILING VACANCY SENSOR WIRING DIAGRAM

SCALE: NTS



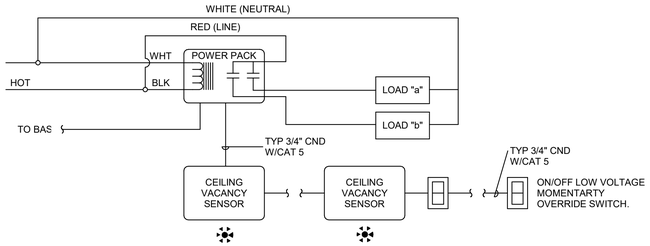
5 RECESSED FIXTURE MOUNTING DETAIL

SCALE: NTS



6 TYPICAL CONDUIT RACK DETAIL

SCALE: NTS

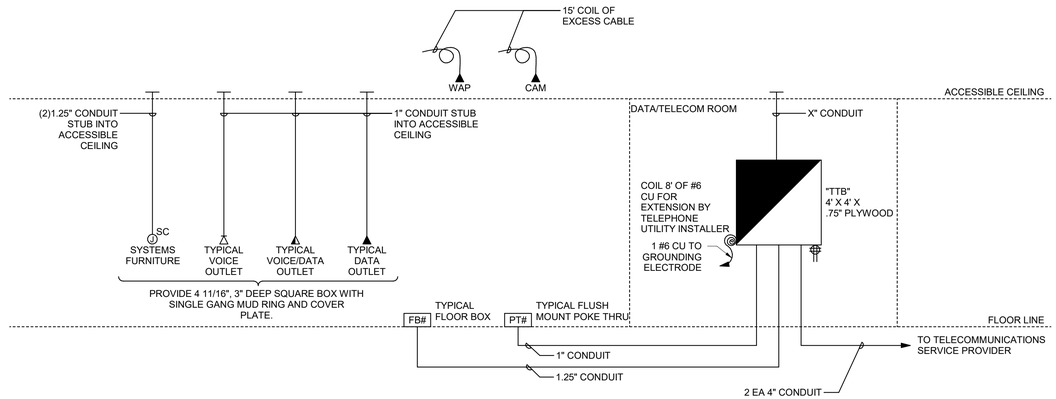


*BASIS OF DESIGN IS NLIGHT
**CONTRACTOR IS RESPONSIBLE TO PROVIDE FULLY FUNCTIONAL EQUIVALENT SYSTEMS TO WHAT IS INDICATED HERE.

TYPICAL MULTIPLE ZONE VACANCY SENSOR WIRING DIAGRAM

2

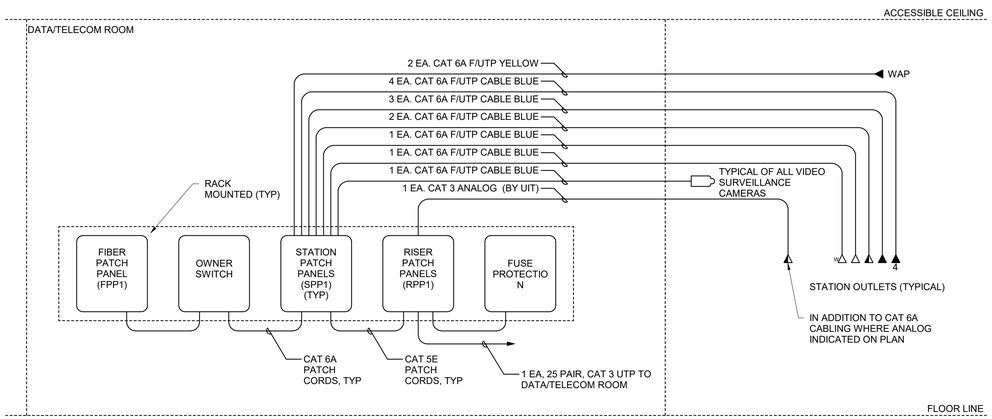
SCALE: NTS



3 VOICE/DATA CABLING RISER DIAGRAM

SCALE: NTS

NOTE: REFER TO INTERMOUNTAIN DIVISION 27 SPECIFICATIONS FOR COMPLETE CABLING AND INFRASTRUCTURE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH STANDARDS.



1 VOICE/DATA CABLING CONDUIT RISER DIAGRAM

SCALE: NTS

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Intermountain IMC Dietary Room Service Remodel
5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET 01/22/2020		
△	DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

ELECTRICAL DETAILS

EE501

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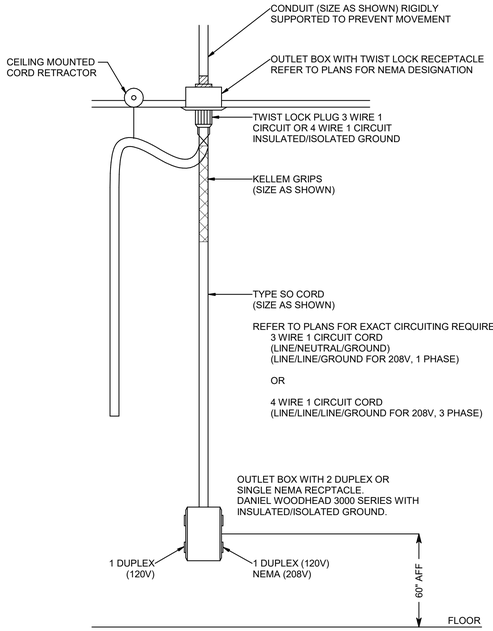
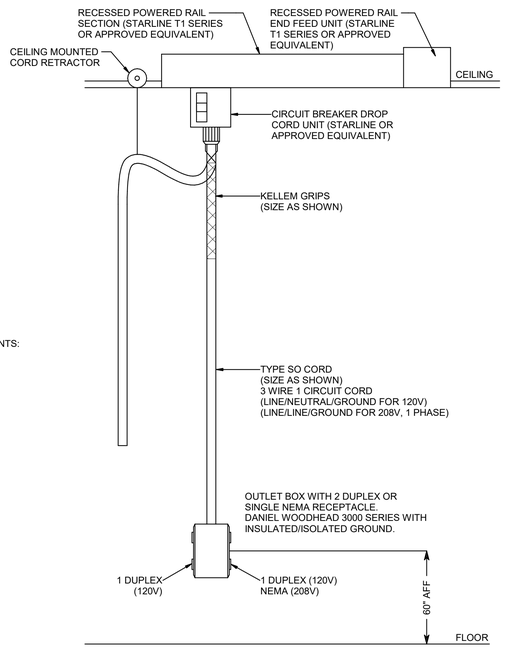


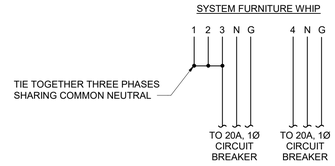
6 DROP CORD DETAIL

SCALE: 1/8" = 1'-0"



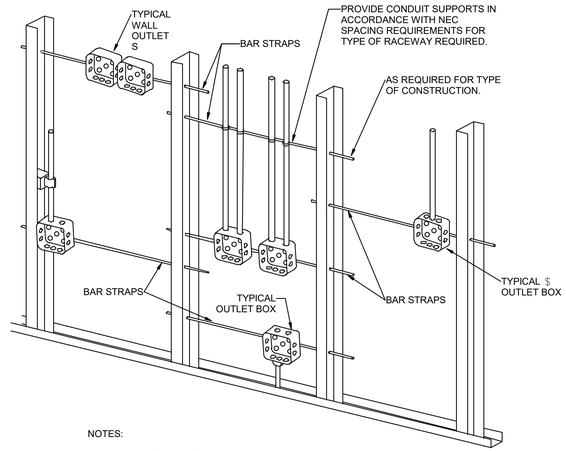
7 POWER RAIL DETAIL

SCALE: 1/8" = 1'-0"



8 SYSTEMS FURNITURE 8-WIRE ONE-LINE

SCALE: NTS

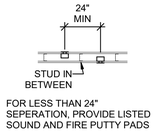


NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUN OF 24" HORIZONTAL DISTANCE.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

9 TYPICAL ROUGH-IN REQUIREMENTS DETAIL

SCALE: NTS



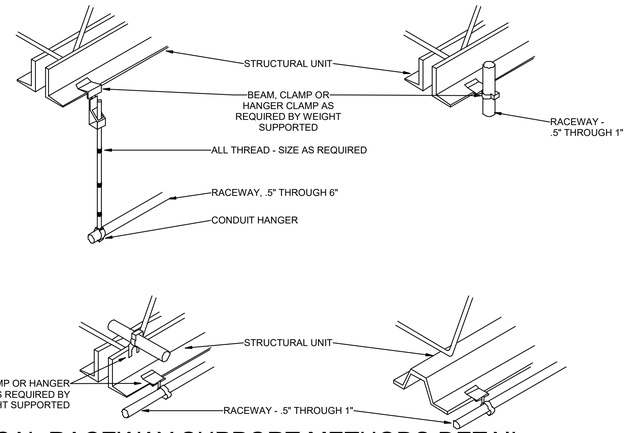
FOR LESS THAN 24" SEPERATION, PROVIDE LISTED SOUND AND FIRE PUTTY PADS

BOXES ON OPPOSITE SIDES OF WALL

5 BOX MOUNTING DETAILS

SCALE: 1/8" = 1'-0"

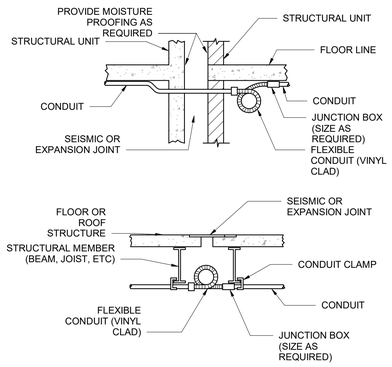
NOTE:
TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.



3 TYPICAL RACEWAY SUPPORT METHODS DETAIL

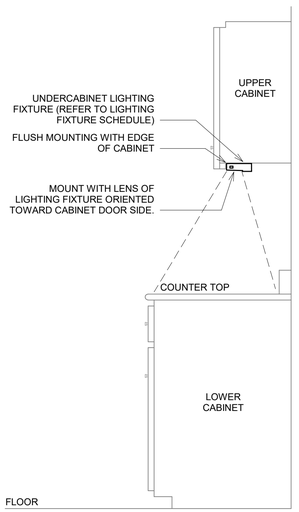
SCALE: NTS

NOTE:
TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.



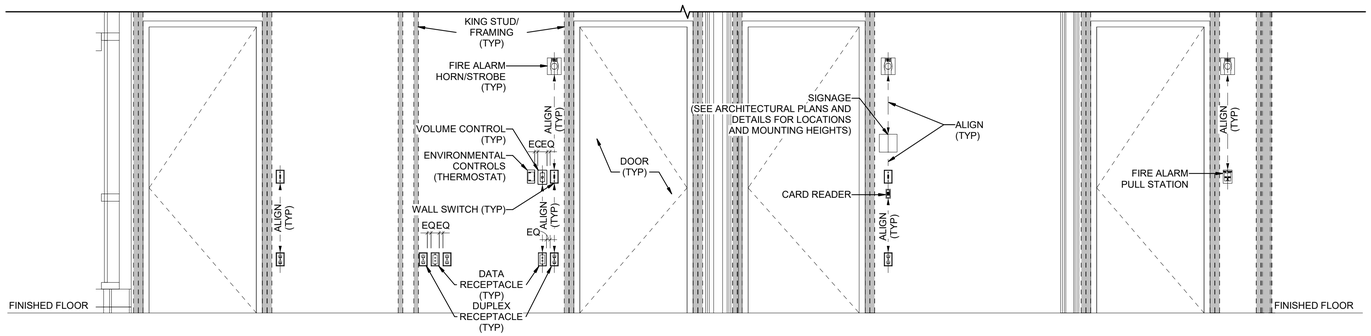
4 CONDUIT EXPANSION JOINT DETAIL

SCALE: NTS



1 TYPICAL UNDERCABINET LIGHTING FIXTURE MOUNTING DETAIL

SCALE: NTS



2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL

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

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STATE OF UTAH

ELECTRICAL DETAILS

EE502

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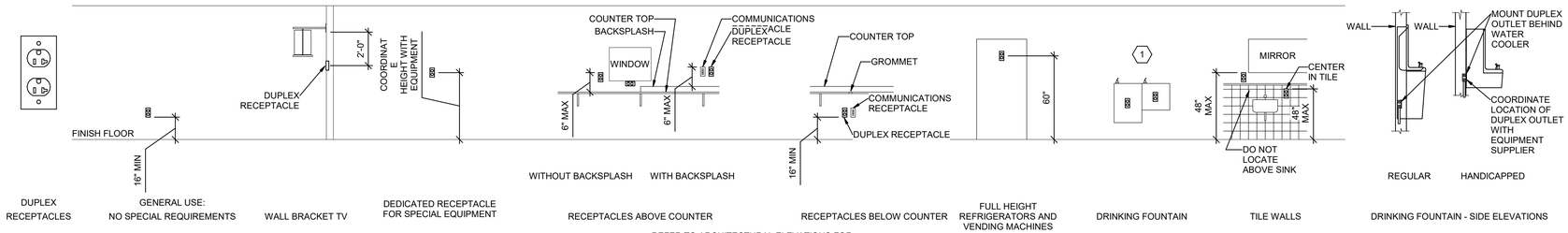
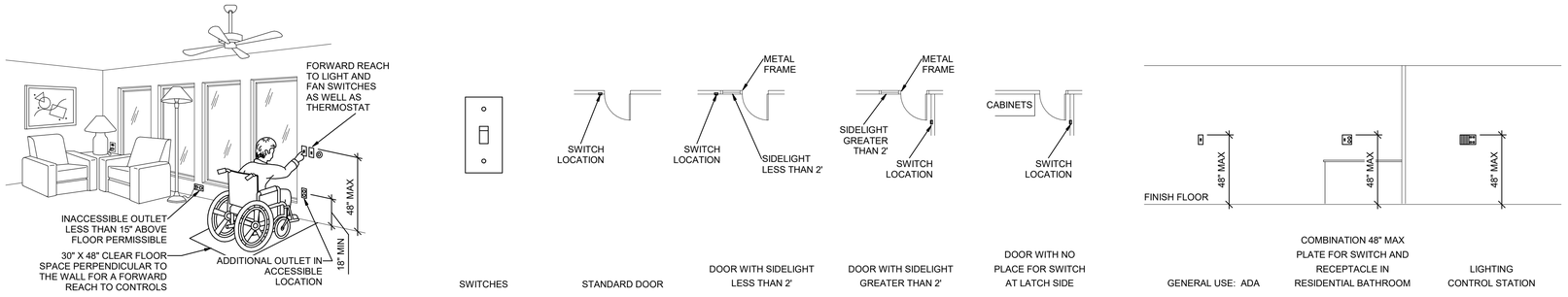


REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.

6 RECEPTACLE MOUNTING DETAILS

SCALE: NTS

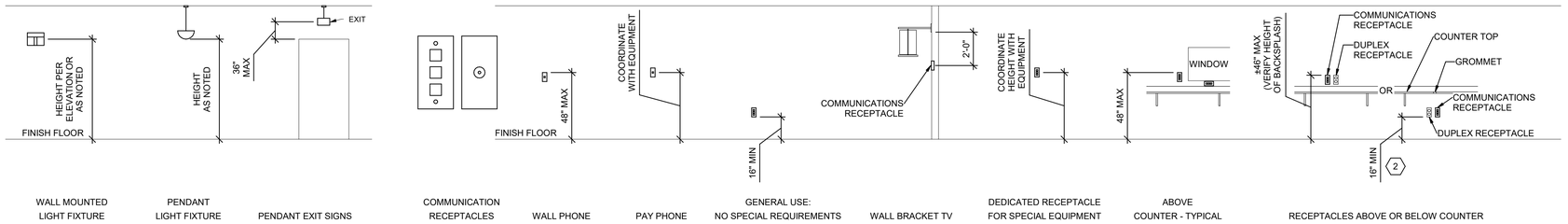


4 ADA DETAIL

SCALE: NTS

5 SWITCH MOUNTING DETAILS

SCALE: NTS

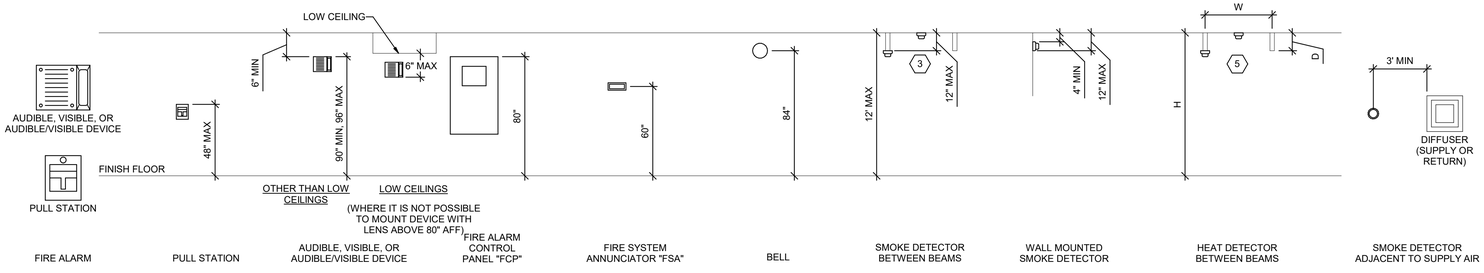


2 LIGHTING MOUNTING DETAILS

SCALE: NTS

3 COMMUNICATIONS MOUNTING DETAILS

SCALE: NTS



1 FIRE ALARM MOUNTING DETAILS

SCALE: NTS

GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:

   1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).

   2 - EQUIPMENT SHOP DRAWINGS.

   3 - FIELD INSTRUCTIONS.

2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.

3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.

4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.

5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.

6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.

7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.

8. LOCATE WIREING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.

9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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No. 7057918
CARLTON A. GETZ
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STATE OF UTAH

TYPICAL MOUNTING HEIGHT DETAILS

EE701

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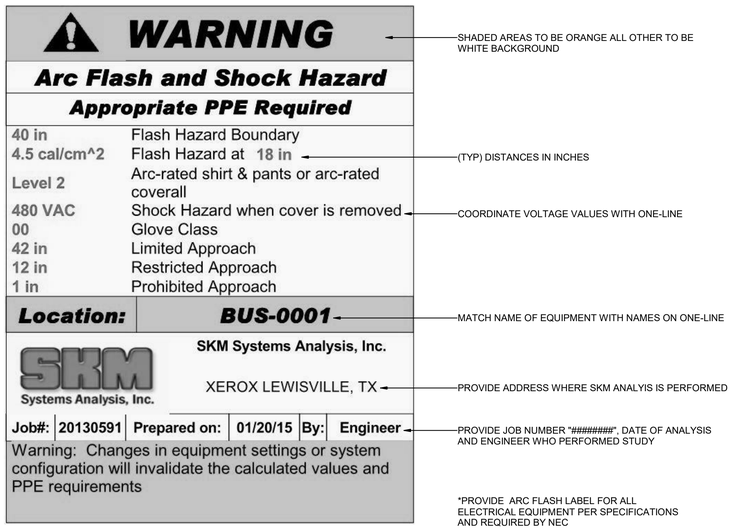
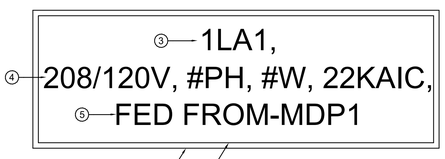


3 TYPICAL ARC FLASH LABEL

SCALE: NTS

1. LABEL TO BE PROVIDED AT EACH SWITCHBOARD, PANELBOARD, DISCONNECT/STARTER. LABEL IS TO BE 3" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
3. FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. REPLACE THE LETTER/NUMBER WITH THOSE FOUND ON THE ONE-LINE DIAGRAM.
4. SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF DEVICE.
5. THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. PROVIDE "FED FROM-" AND REPLACE MDP1 WITH THE DEVICES NAME THAT FEEDS THE PANELBOARD.



NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY, SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST '#' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

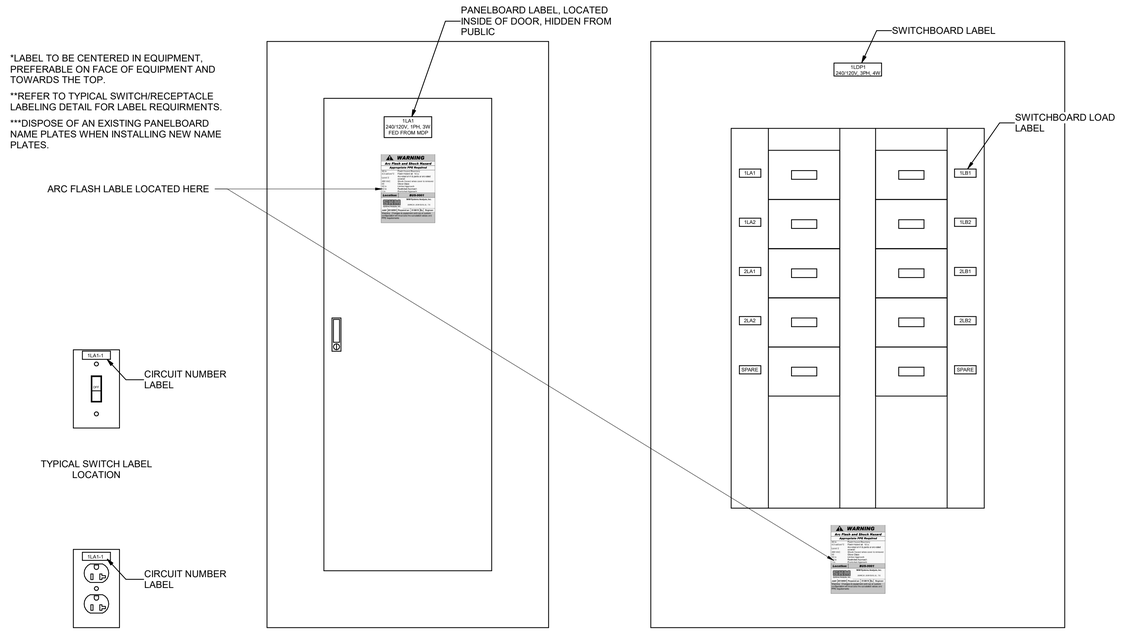
1 TYPICAL PANELBOARD/SWITCHBOARD LABEL

SCALE: NTS

*LABEL TO BE CENTERED IN EQUIPMENT, PREFERABLE ON FACE OF EQUIPMENT AND TOWARDS THE TOP.

**REFER TO TYPICAL SWITCH/RECEPTACLE LABELING DETAIL FOR LABEL REQUIRMENTS.

***DISPOSE OF AN EXISTING PANELBOARD NAME PLATES WHEN INSTALLING NEW NAME PLATES.



2 TYPICAL SWITCH, RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL

SCALE: 1/8" = 1'-0"

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No. 7067918
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STATE OF UTAH

TYPICAL LABLING DETAILS

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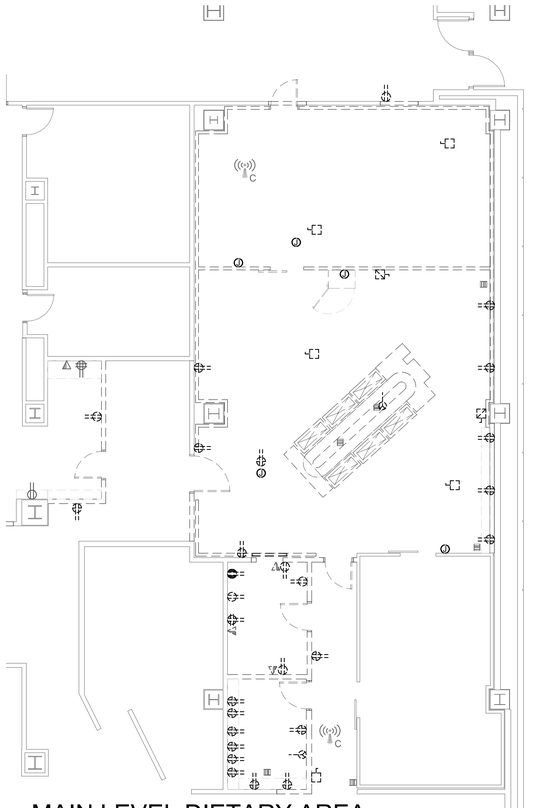
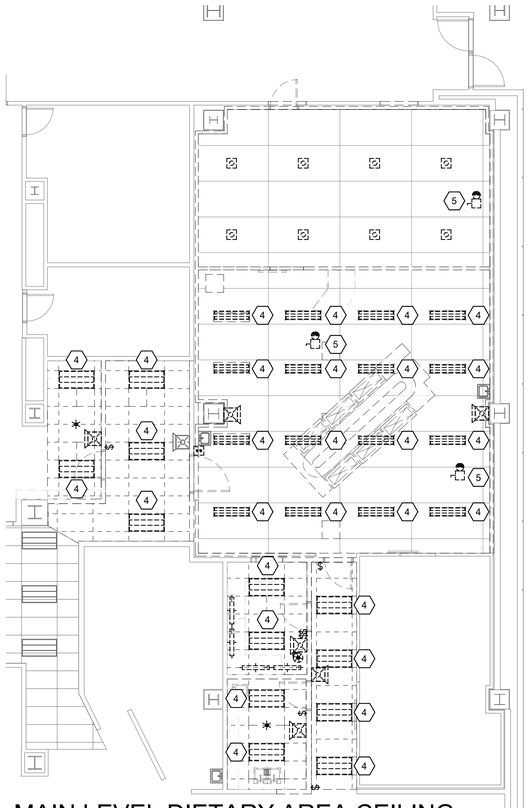


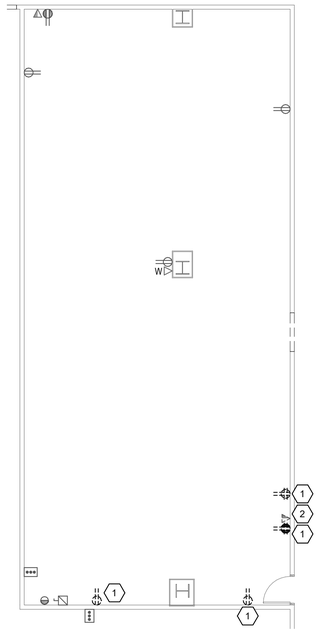
MAIN LEVEL DIETARY AREA ELECTRICAL DEMOLITION PLAN

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



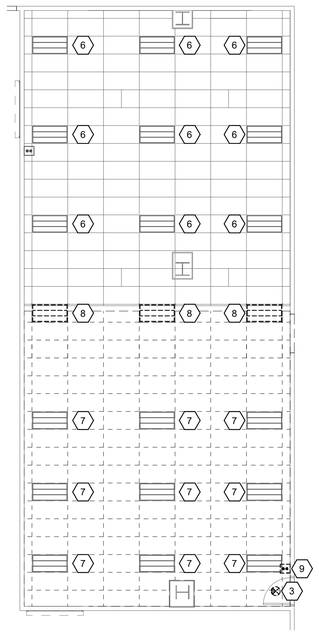
MAIN LEVEL DIETARY AREA CEILING DEMOLITION PLAN

2 SCALE: 1/8" = 1'-0"



MAIN LEVEL TEMPORARY PREPARATION ELECTRICAL DEMOLITION PLAN

4 SCALE: 1/8" = 1'-0"



MAIN LEVEL TEMPORARY PREPARATION CEILING DEMOLITION PLAN

1 SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

1 DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING TO BE REMOVED BACK TO THE PANELBOARD. DENOTE ALL REMOVED CIRCUITS AS "SPARE" ON THE PANEL SCHEDULE KEPT WITH EACH PANELBOARD. TURN ALL CIRCUIT BREAKERS AND SWITCHES PROTECTING CIRCUITS REMOVED DURING DEMOLITION TO THE "OFF" POSITION.

2 REMOVE ALL UNUSED AND ABANDONED ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING. DO NOT LEAVE ABANDONED COMPONENTS IN PLACE UNLESS OTHERWISE NOTED.

3 WHERE THE SOURCE TO OTHER ELECTRICAL ITEMS WHICH ARE TO REMAIN IS INTERRUPTED BY THE REMOVAL OF AN ITEM OR DEVICE, THE CONTRACTOR SHALL INSTALL THE NECESSARY CONDUIT AND WIRE TO RECONNECT IT TO ITS NEAREST OR MOST CONVENIENT ORIGINAL SOURCE.

4 WHERE CIRCUITS OR OTHER ELECTRICAL EQUIPMENT UNRELATED TO THIS WORK PASS THROUGH THE AREA AFFECTED BY DEMOLITION, THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN THE EXISTING INSTALLATION OR PERFORM THE NECESSARY WORK TO RELOCATE SUCH CIRCUITING OR OTHER ELECTRICAL EQUIPMENT AS NECESSARY TO MAINTAIN CONTINUITY.

5 ALL DEMOLITION WORK SHALL BE FULLY COORDINATED WITH ALL TRADES.

6 REFER TO ARCHITECTURAL PLANS FOR COMPLETE SCOPE OF DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS PRIOR TO BIDDING TO INCORPORATE THE SCOPE OF DEMOLITION WORK INTO THE BID.

7 THE BUILDING OWNER RESERVES THE RIGHT TO HAVE SOME OF THE REMOVED MATERIALS STORED ON SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING, IN CONJUNCTION WITH THE BUILDING OWNER, THE LIST OF WHAT IS TO BE SALVAGED.

8 ALL DEVICES AND EQUIPMENT SHOWN SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. REFER TO THE LIGHTING PLAN FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES TO BE RELOCATED UNDER THIS WORK.

9 PRIOR TO COMMENCEMENT OF DEMOLITION WORK, GENERAL CONTRACTOR IS TO COORDINATE WITH FACILITY SYSTEM VENDORS (BMS, DATA, LIGHTING CONTROL, NURSE CALL, PAGING, ETC.) AND INTERMOUNTAIN INFORMATION SERVICES A THREE WORKING DAY PERIOD FOR VENDOR REMOVAL, RELOCATION, AND PROTECTION OF EXISTING VENDOR SYSTEM CABLING WITHIN PROJECT AREA OF WORK. DEMOLITION WORK MAY COMMENCE ONLY AFTER VENDOR COMPLETION OR AS APPROVED BY INTERMOUNTAIN HEALTH CARE PROJECT MANAGER.

SHEET KEYNOTES

1 REMOVE EXISTING DEVICE. MAINTAIN EXISTING JUNCTION BOX AND ASSOCIATED BRANCH CIRCUITS FOR REINSTALLATION OF DEVICE AFTER DECOMMISSIONING OF TEMPORARY KITCHEN. PROVIDE BLANK COVER PLATE.

2 REMOVE EXISTING DEVICE. MAINTAIN EXISTING JUNCTION BOX AND ALL ASSOCIATED DATA CABLING FOR REINSTALLATION OF DEVICE AFTER DECOMMISSIONING OF TEMPORARY KITCHEN. PROVIDE BLANK COVER PLATE.

3 REMOVE EXISTING LIGHT FIXTURE. MAINTAIN EXISTING LIGHTING BRANCH CIRCUIT FOR RECONNECTION TO NEW LIGHT FIXTURE INSTALLED IN SAME LOCATION UNDER NEW WORK.

4 REMOVE EXISTING LIGHT FIXTURE. MAINTAIN EXISTING LIGHTING BRANCH CIRCUIT FOR EXTENSION AND RECONNECTION TO NEW LIGHT FIXTURES INSTALLED UNDER NEW WORK.

5 REMOVE EXISTING CEILING MOUNTED MECHANICAL EQUIPMENT AND ASSOCIATED DISCONNECT SWITCH. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.

6 EXISTING LIGHT FIXTURE TO REMAIN. RECONFIGURE EXISTING LIGHTING BRANCH CIRCUITING AS NOTED ON LIGHTING PLANS. DOCUMENT EXISTING CONDITIONS FOR REINSTALLATION ON DEMOLITION OF TEMPORARY KITCHEN.

7 EXISTING FIXTURE TO REMAIN. RECONFIGURE EXISTING LIGHTING BRANCH CIRCUITING AS NOTED ON LIGHTING PLANS. DOCUMENT EXISTING CONDITIONS FOR REINSTALLATION ON DEMOLITION OF TEMPORARY KITCHEN.

ADD ALTERNATE: REMOVE AND SALVAGE EXISTING FIXTURE. MAINTAIN EXISTING LIGHTING BRANCH CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURES INSTALLED IN SAME LOCATION. RETAIN EXISTING FIXTURES FOR REINSTALLATION AFTER DECOMMISSIONING OF TEMPORARY KITCHEN.

8 REMOVE AND SALVAGE EXISTING LIGHT FIXTURE FOR REINSTALLATION IN ADJACENT LOCATION UNDER NEW WORK. RECONFIGURE EXISTING LIGHTING BRANCH CIRCUITING AS NOTED ON LIGHTING PLANS. DOCUMENT EXISTING CONDITIONS FOR REINSTALLATION ON DEMOLITION OF TEMPORARY KITCHEN.

ADD ALTERNATE: REMOVE AND SALVAGE EXISTING FIXTURE. MAINTAIN EXISTING LIGHTING BRANCH CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURES INSTALLED IN ADJACENT LOCATION. RETAIN EXISTING FIXTURES FOR REINSTALLATION AFTER DECOMMISSIONING OF TEMPORARY KITCHEN.

9 REMOVE AND SALVAGE EXISTING LIGHT SWITCH. DOCUMENT EXISTING CONDITIONS FOR REINSTALLATION ON DEMOLITION OF TEMPORARY KITCHEN. RETAIN EXISTING LIGHT SWITCH FOR REINSTALLATION AFTER DECOMMISSIONING OF TEMPORARY KITCHEN.

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MAIN LEVEL ELECTRICAL DEMOLITION PLAN

ED101

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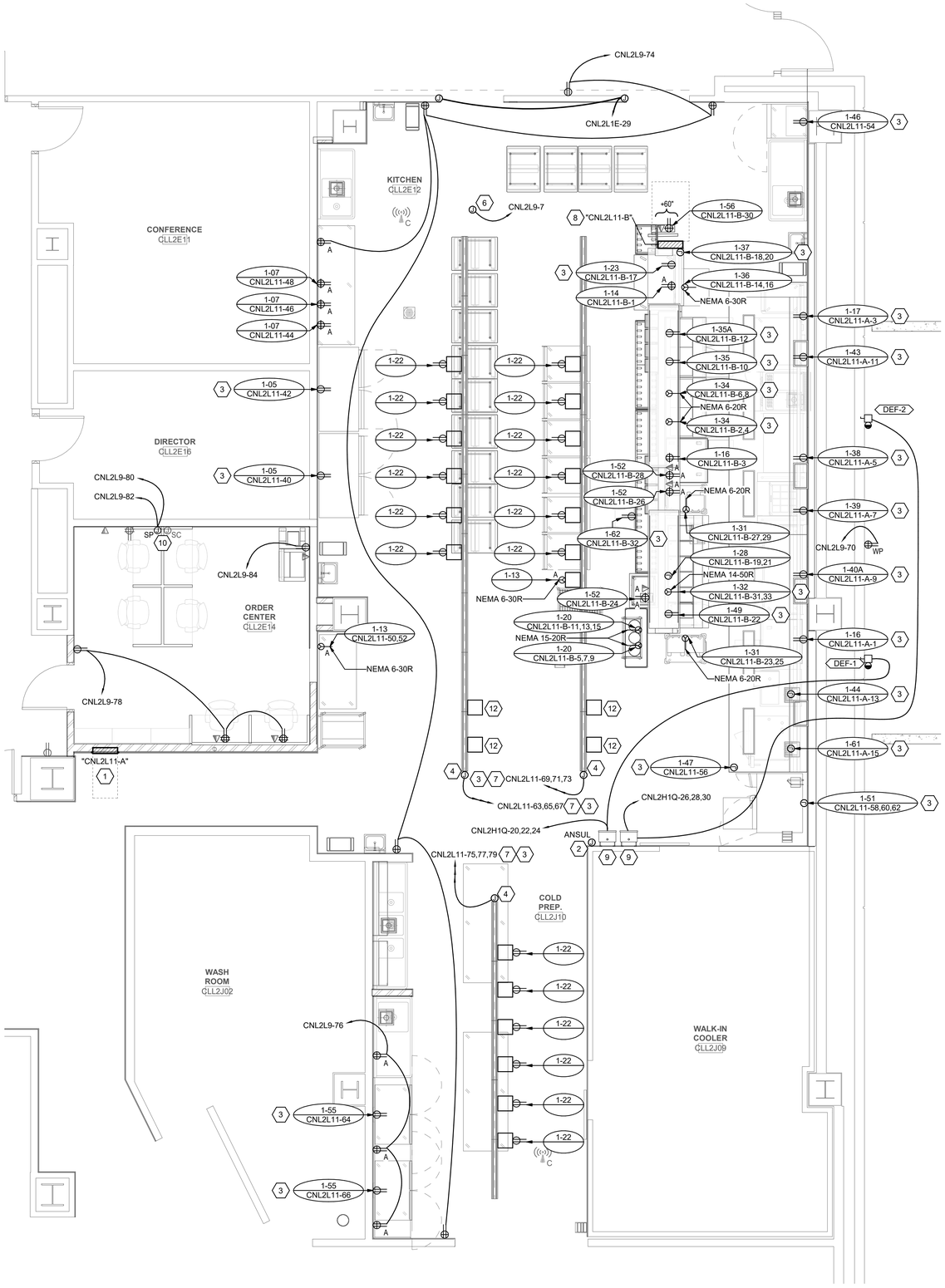

2 MAIN LEVEL DIETARY AREA POWER PLAN

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

1 MAIN LEVEL TEMPORARY PREPARATION POWER PLAN

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

GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE NEW PANEL WITH SHUNT TRIP MAIN BREAKER.

2 EXHAUST HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL. PROVIDE INTERCONNECTION BETWEEN CONTROL PANEL AND BUILDING FIRE ALARM SYSTEM FOR AUTOMATIC REPORTING OF FIRE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT COMPONENTS AS FOLLOWS:

(a) PROVIDE (1) 3/4" CONDUIT WITH CONTROL WIRES FROM FIRE SUPPRESSION SYSTEM CONTROL PANEL CONTACTORS TO EXHAUST HOOD FIRE/SMOKE DETECTORS FOR AUTOMATIC DETECTION OF EXHAUST HOOD FIRE.

(b) PROVIDE (1) 3/4" CONDUIT WITH CONTROL WIRES FROM FIRE SUPPRESSION SYSTEM CONTROL PANEL CONTACTORS TO EXHAUST HOOD FAN FOR AUTOMATIC CONTROL OF EXHAUST HOOD FAN.

(c) PROVIDE (1) 3/4" CONDUIT WITH CONTROL WIRES FROM FIRE SUPPRESSION SYSTEM CONTROL PANEL CONTACTORS TO GAS SOLENOID VALVE FOR AUTOMATIC SHUT OFF OF GAS SUPPLY UPON DETECTION OF FIRE.

(d) PROVIDE (1) 3/4" CONDUIT WITH CONTROL WIRES FROM FIRE SUPPRESSION SYSTEM CONTROL PANEL CONTACTORS TO BUILDING FIRE ALARM SYSTEM FOR ALARM NOTIFICATION.

(e) PROVIDE (1) 3/4" CONDUIT WITH CONTROL WIRES FROM FIRE SUPPRESSION SYSTEM CONTROL PANEL CONTACTORS TO SHUNT TRIP CIRCUIT BREAKER PANEL SERVING EQUIPMENT UNDER EXHAUST HOOD FOR AUTOMATIC DISCONNECTION OF ELECTRICAL SERVICE UPON DETECTION OF FIRE.

(f) PROVIDE (1) 3/4" CONDUIT WITH CONTROL WIRES FROM FIRE SUPPRESSION SYSTEM CONTROL PANEL CONTACTORS TO EXHAUST HOOD FIRE SUPPRESSION SYSTEM FOR AUTOMATIC FIRE SUPPRESSION UPON DETECTION OF FIRE.

3 PROVIDE GFCI CIRCUIT BREAKER FOR INDICATED BRANCH CIRCUIT.

4 PROVIDE THREE PHASE POWERED RAIL SYSTEM WITH SINGLE PHASE, 20 AMPERE DROPCORD CONNECTIONS TO ASSOCIATED KITCHEN EQUIPMENT (STARLINE T1 SERIES OR EQUIVALENT MANUFACTURER WITH PRIOR APPROVAL). CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS OF RAIL SYSTEM. REFER TO DETAIL 7/EE502 FOR ADDITIONAL INFORMATION.

5 MOUNT LOCKING RECEPTACLE SERVING AIR CURTAIN REFRIGERATOR TO CEILING ABOVE UNIT.

6 PROVIDE JUNCTION BOX FOR VAV CONTROL WIRING. EXTEND CONTROL WIRING TO EACH VAV BOX.

7 PROVIDE (4) #8 AWG COPPER CONDUCTORS WITH (1) #10 AWG COPPER GROUND IN (1) 1" CONDUIT FOR INDICATED CIRCUIT.

8 COORDINATE LOCATION OF PANEL WITH KITCHEN EQUIPMENT IN FIELD.

9 COORDINATE LOCATION OF FAN VFD WITH HOOD MANUFACTURER PRIOR TO INSTALLATION.

10 REFER TO DETAIL 8/EE502 FOR SYSTEMS FURNITURE WIRING DIAGRAM.

11 REFER TO DETAIL 6/EE502 FOR ADDITIONAL INFORMATION ON DROP CORD SYSTEM.

12 PROVIDE SPARE SINGLE PHASE, 20 AMPERE DROPCORD CONNECTION (STARLINE T1 SERIES OR EQUIVALENT MANUFACTURER WITH PRIOR APPROVAL). COIL DROP CORD AT CEILING AFTER INSTALLATION FOR FUTURE USE.

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET 01/22/2020	
DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057913
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

MAIN LEVEL ENLARGED POWER PLAN

EP101

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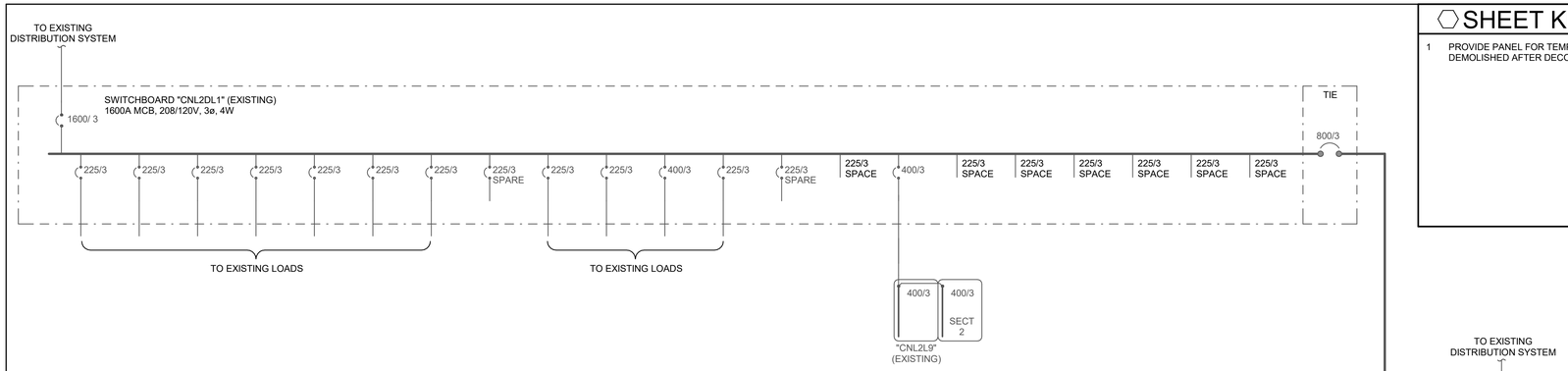

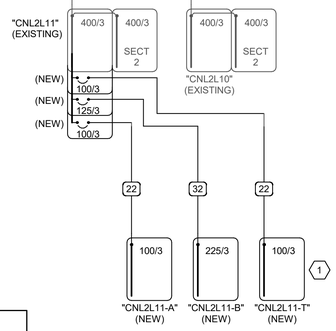

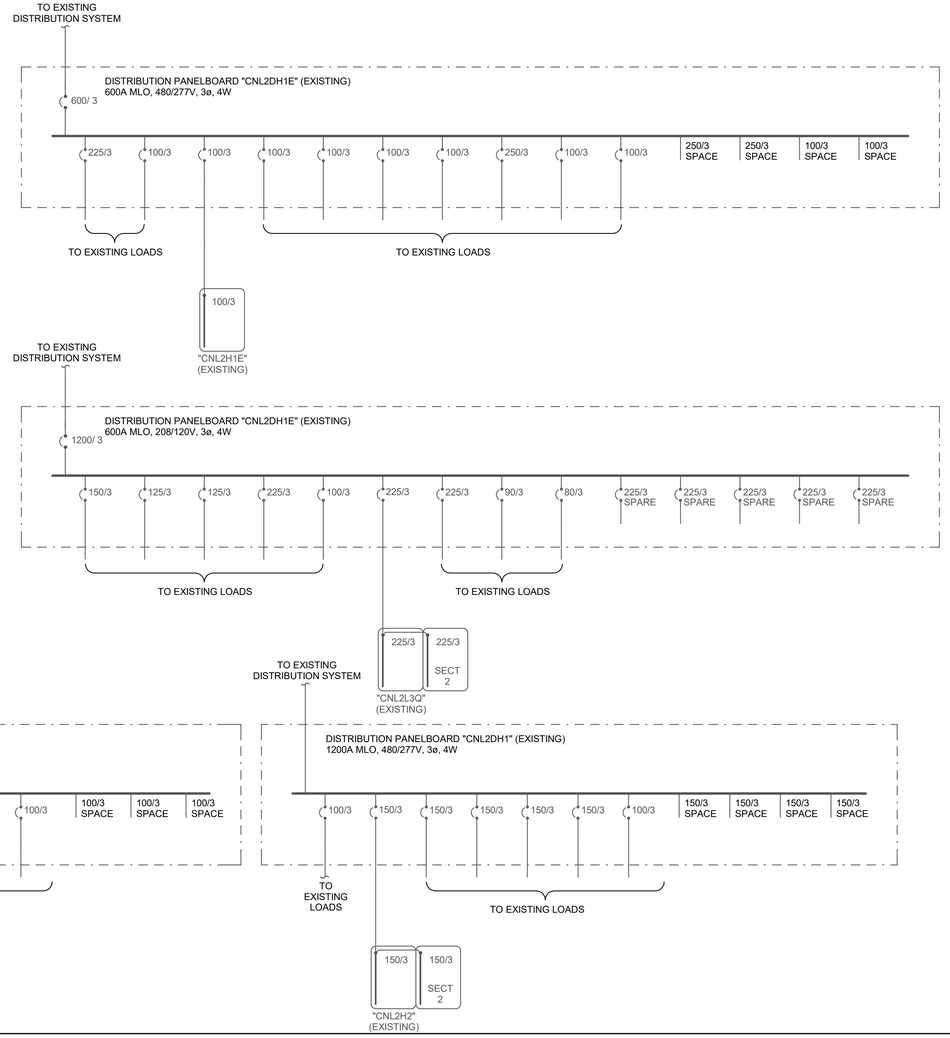

BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	CONDUCTOR SIZE (PHASE, NEUTRAL AND GR)	CONDUIT SIZE
20A/120V	0' - 60'	#12 AWG	0.75" Ø
20A/120V	60' - 95'	#10 AWG	0.75" Ø
20A/120V	95' - 150'	#8 AWG	1" Ø
20A/120V	150' - 240'	#6 AWG	1.25" Ø
20A/277V	0' - 140'	#12 AWG	0.75" Ø
20A/277V	140' - 220'	#10 AWG	0.75" Ø
20A/277V	220' - 350'	#8 AWG	1" Ø
20A/277V	350' - 550'	#6 AWG	1.25" Ø

NOTES:

1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
2. DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

EQUIPMENT NAMEPLATE SCHEDULE

EQUIPMENT ID SCHEME	FIRST DIGIT - BUILDING LEVEL (1 OR 2) SECOND DIGIT - PANEL TYPE M - MECHANICAL (277/480) L - LIGHTING (277/480) P - PLUG LOADS (120/208) G - GENERAL LOADS (120/208) E - EMERGENCY (277/480) S - STANDBY U - UPS W - WELDING (120/208) THIRD DIGIT - BUILDING AREA (A, B, OR C) FOURTH DIGIT - SEQUENCE # (1,2,3,...)
LABEL FORMAT	[NAME] [SYSTEM] [VOLTAGE] [FED FROM] [SOURSE(S)]
LABEL EXAMPLE	PANEL "4LA1" STANDBY POWER 120/208V FED FROM BUS-A / XFMR 4TA
BUSWAY	LABEL BUSWAY EVERY 6' WHERE EXPOSED TO VIEW AND EVERY 15' WHERE NOT EXPOSED TO VIEW
OTHER	

COLOR SCHEME

SYSTEM	EQUIPMENT	NAMEPLATE COLOR TEXT	NAMEPLATE COLOR BACKGROUND
NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BLACK
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEAR, EXCEPT UPS GEAR AS NOTED	WHITE	ORANGE
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL DOWNSTREAM GEAR	WHITE	RED
LEGALLY-REQUIRED STANDBY POWER	ATS-S AND ALL DOWNSTREAM GEAR	RED	WHITE
UPS "A" POWER	UPSA AND ALL DOWNSTREAM GEAR	WHITE	BLUE
UPS "B" POWER	UPSB AND ALL DOWNSTREAM GEAR	BLACK	YELLOW

SHEET KEYNOTES

1 PROVIDE PANEL FOR TEMPORARY KITCHEN OPERATION. PANEL TO BE DEMOLISHED AFTER DECOMMISSIONING OF TEMPORARY KITCHEN.

GENERAL SHEET NOTES

1 PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.

2 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

3 ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.

4 PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 230.95(C).

COPPER CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER
SUBSCRIPT (NOTE 5)
(E.G. 5 IG)

SYM	AMP	HH AMPS	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	SIZE	G	IG/HH	SE	NOTES
1	20	-	.75	2	12	12	12	8	2
2	20	-	.75	3	12	12	12	8	2,3
3	20	24	.75	4	12	12	12	8	2,3
4	30	-	.75	2	10	10	10	8	2
5	30	-	.75	3	10	10	10	8	2
6	30	32	.75	4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
8	40	-	1	3	8	10	8	6	2
9	40	44	1	4	8	10	8	6	2
10	55	-	1	2	6	10	8	4	2
11	55	-	1	3	6	10	8	4	2
12	55	60	1.25	4	6	10	8	4	2
13	70	-	1	2	4	8	4	2	2
14	70	-	1.25	3	4	8	4	2	2
15	70	76	1.25	4	4	8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85	-	1.25	3	3	8	3	2	2
18	85	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1	6	2	2	2
23	150	-	2	3	1/0	6	2	1/0	2
24	150	136	2	4	1/0	6	2	1/0	2
25	175	-	2	3	2/0	6	2	2/0	2
26	175	156	2	4	2/0	6	2	2/0	2
27	200	-	2	3	3/0	6	2	2/0	2
28	200	180	2.50	4	3/0	6	2	2/0	2
29	230	-	2.50	3	4/0	4	2	2/0	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	-	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
33	310	-	3	3	350	3	1/0	3/0	2
34	310	280	3	4	350	3	1/0	3/0	2
35	380	-	3.50	3	500	3	3/0	3/0	2
36	380	344	4	4	500	3	3/0	3/0	2
37	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	360	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	-	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	464	2 EA 3	4	250	1	4/0	3/0	2
41	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	-	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	688	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	-	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	-	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	1032	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4
54	2010	1824	6 EA 4	4	400	250	250	250	4
55	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
57	4180	3784	11 EA 4	4	500	500	500	500	4
58	-	-	5 EA 4	-	-	-	-	-	6
59	-	-	5	-	-	-	-	-	6
60	-	-	10 EA 4	-	-	-	-	-	6

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. SYMBOL SUBSCRIPTS:
   - "2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #1/0 OR LARGER. INCLUDE A SINGLE 200% RATED CONDUCTOR THAT IS TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL CONDUCTOR WHERE THE CONDCUTOR IS BELOW #1/0 IN SIZE.
   - "FG": FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.
   - "HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
   - "IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
   - "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET 01/22/2020	
DATE	REVISION

LICENSED PROFESSIONAL ENGINEER No. 7057918 CARL JOHN A. GETZ 01/23/2020 STATE OF UTAH

ONE-LINE DIAGRAM

EP601

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TEMPORARY KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	QTY	DECSRIPTION	ELEC. CONN.	PANEL/ CIRCUIT	VOLT	PH	AFF	HP	AMPS	kW	WIRE AND CONDUIT SIZE	ELECTRICAL REMARKS	CB
1-05	1	ROLL-IN REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-T-1	120 V	1	+18"		11.4	1.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	GFCI DUPLEX RECEPTACLE	CNL2L11-T-15	120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	GFCI DUPLEX RECEPTACLE	CNL2L11-T-17	120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	GFCI DUPLEX RECEPTACLE	CNL2L11-T-19	120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	GFCI DUPLEX RECEPTACLE	CNL2L11-T-21	120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	GFCI DUPLEX RECEPTACLE	CNL2L11-T-23	120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	GFCI DUPLEX RECEPTACLE	CNL2L11-T-25	120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-23	1	UNDERCOUNTER FREEZER	GFCI DUPLEX RECEPTACLE	CNL2L11-T-27	120 V	1	+18"		10.2	1.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-32	1	HEATED SERVING COUNTER	SPECIAL PURPOSE RECEPTACLE	CNL2L11-T-37,39	208 V	1	+18"		26.0	5.4	3/4" CND W/ (2) #10, #10 GND		30/2
1-46	1	REACH-IN FREEZER	DUPLEX RECEPTACLE	CNL2L11-T-2	120 V	1	+18"		7.2	0.9	3/4" CND W/ (2) #12, #12 GND		20/1
1-49	1	LOW TEMPERATURE HOT HOLDING CABINET & WARMER	GFCI DUPLEX RECEPTACLE	CNL2L11-T-6	120 V	1	+18"		6.7	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-49	1	LOW TEMPERATURE HOT HOLDING CABINET & WARMER	GFCI DUPLEX RECEPTACLE	CNL2L11-T-4	120 V	1	+18"		6.7	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
T-01	1	PORTABLE HAND SINK	GFCI DUPLEX RECEPTACLE	CNL2L11-T-8	120 V	1	+18"		15.0	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
T-01	1	PORTABLE HAND SINK	GFCI DUPLEX RECEPTACLE	CNL2L11-T-10	120 V	1	+18"		15.0	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
T-04	1	HEATED SERVING COUNTER	SPECIAL PURPOSE RECEPTACLE	CNL2L11-T-12,14	208 V	1	+18"		26.0	5.4	3/4" CND W/ (2) #10, #10 GND		30/2
T-05	1	BANQUET CABINET	GFCI DUPLEX RECEPTACLE	CNL2L11-T-16	120 V	1	+18"		19.8	2.4	3/4" CND W/ (2) #12, #12 GND		20/1

NEW KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	QTY	DECSRIPTION	ELEC. CONN.	PANEL/ CIRCUIT	VOLT	PH	AFF	HP	AMPS	kW	WIRE AND CONDUIT SIZE	ELECTRICAL REMARKS	CB
1-05	1	ROLL-IN REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-42	120 V	1	+18"		11.4	1.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-05	1	ROLL-IN REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-40	120 V	1	+18"		11.4	1.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-07	1	COFFEE/TEA BREWER	GFCI DUPLEX RECEPTACLE	CNL2L11-44	120 V	1	+42"		11.4	1.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-07	1	COFFEE/TEA BREWER	GFCI DUPLEX RECEPTACLE	CNL2L11-48	120 V	1	+42"		11.4	1.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-07	1	COFFEE/TEA BREWER	GFCI DUPLEX RECEPTACLE	CNL2L11-46	120 V	1	+42"		11.4	1.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-13	1	ELECTRIC CONVEYOR TOASTERS	SPECIAL PURPOSE RECEPTACLE	CNL2L11-50,52	208 V	1	+42"		24.0	5.0	3/4" CND W/ (2) #10, #10 GND		30/2
1-13	1	ELECTRIC CONVEYOR TOASTERS	SPECIAL PURPOSE RECEPTACLE		208 V	1	+42"		24.0	5.0	3/4" CND W/ (2) #10, #10 GND		30/2
1-14	1	JUICE DISPENSER	GFCI DUPLEX RECEPTACLE	CNL2L11-B-1	120 V	1	+42"		6.0	0.7	3/4" CND W/ (2) #12, #12 GND		20/1
1-16	1	KETTLE	DUPLEX RECEPTACLE	CNL2L11-A-1	120 V	1	+18"		6.7	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-16	1	KETTLE	GFCI DUPLEX RECEPTACLE	CNL2L11-B-3	120 V	1	+18"		6.7	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-17	1	LOW TEMPERATURE COOK & HOOD OVEN	DUPLEX RECEPTACLE	CNL2L11-A-3	120 V	1	+18"		16.0	1.9	3/4" CND W/ (2) #12, #12 GND		20/1
1-20	1	HEAT ON DEMAND ACTIVATOR	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-11,13,15	208 V	3	+18"		15.0	5.4	3/4" CND W/ (3) #12, #12 GND		20/3
1-20	1	HEAT ON DEMAND ACTIVATOR	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-5,7,9	208 V	3	+18"		15.0	5.4	3/4" CND W/ (3) #12, #12 GND		20/3
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-22	1	AIR CURTAIN REFRIGERATOR	DUPLEX RECEPTACLE		120 V	1	+18"		15.4	1.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-23	1	UNDERCOUNTER FREEZER	DUPLEX RECEPTACLE	CNL2L11-B-17	120 V	1	+18"		7.0	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-28	1	FOOD WARMER, OVERHEAD	JUNCTION BOX	CNL2L11-B-19,21	208 V	1	+18"		15.3	3.2	3/4" CND W/ (2) #12, #12 GND		20/2
1-31	1	CONVECTED AIR DISH HEATER	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-23,25	208 V	1	+18"		15.9	3.3	3/4" CND W/ (2) #12, #12 GND		20/2
1-31	1	CONVECTED AIR DISH HEATER	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-27,29	208 V	1	+18"		15.9	3.3	3/4" CND W/ (2) #12, #12 GND		20/2
1-32	1	HEATED SERVING COUNTER	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-31,33	208 V	1	+18"		26.0	5.4	3/4" CND W/ (2) #10, #10 GND		30/2
1-34	1	HIGH SPEED OVEN	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-2,4	208 V	1	+18"		20.0	4.2	3/4" CND W/ (2) #12, #12 GND		20/2
1-34	1	HIGH SPEED OVEN	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-6,8	208 V	1	+18"		20.0	4.2	3/4" CND W/ (2) #12, #12 GND		20/2
1-35	1	SALAD TOP REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-B-10	120 V	1	+18"		7.2	0.9	3/4" CND W/ (2) #12, #12 GND		20/1
1-35A	1	SALAD TOP REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-B-12	120 V	1	+18"		7.2	0.9	3/4" CND W/ (2) #12, #12 GND		20/1
1-36	1	SANDWICH PRESS	SPECIAL PURPOSE RECEPTACLE	CNL2L11-B-14,16	208 V	1	+18"		26.0	5.4	3/4" CND W/ (2) #10, #10 GND		30/2
1-37	1	CHEF'S COUNTER	JUNCTION BOX	CNL2L11-B-18,20	208 V	1	+18"		40.0	8.3	3/4" CND W/ (2) #8, #10 GND		40/2
1-38	1	REFRIGERATED BASE	DUPLEX RECEPTACLE	CNL2L11-A-5	120 V	1	+18"		8.0	1.0	3/4" CND W/ (2) #12, #12 GND		20/1
1-39	1	SANDWICH UNIT, REFRIGERATED	DUPLEX RECEPTACLE	CNL2L11-A-7	120 V	1	+18"		6.3	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-40A	1	REFRIGERATED BASE	DUPLEX RECEPTACLE	CNL2L11-A-9	120 V	1	+18"		8.0	1.0	3/4" CND W/ (2) #12, #12 GND		20/1
1-43	1	CONVECTION OVEN GAS	DUPLEX RECEPTACLE	CNL2L11-A-11	120 V	1	+18"		9.8	1.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-44	1	KETTLE	JUNCTION BOX	CNL2L11-A-13	120 V	1	+18"		5.0	0.6	3/4" CND W/ (2) #12, #12 GND		20/1
1-46	1	REACH-IN FREEZER	DUPLEX RECEPTACLE	CNL2L11-54	120 V	1	+18"		7.2	0.9	3/4" CND W/ (2) #12, #12 GND		20/1
1-47	1	EXHAUST HOOD	JUNCTION BOX	CNL2L11-56	120 V	1	+18"		10.0	1.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-49	1	LOW TEMPERATURE HOT HOLDING CABINET & WARMER	DUPLEX RECEPTACLE	CNL2L11-B-22	120 V	1	+18"		6.7	0.8	3/4" CND W/ (2) #12, #12 GND		20/1
1-51	1	BLAST CHILLER/SHOCK FREEZER	JUNCTION BOX	CNL2L11-58,60,62	208 V	3	+18"		5.2	1.9	3/4" CND W/ (3) #12, #12 GND		20/3
1-52	1	CHIT PRINTER	GFCI DUPLEX RECEPTACLE	CNL2L11-B-24	120 V	1	+18"		1.5	0.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-52	1	CHIT PRINTER	GFCI DUPLEX RECEPTACLE	CNL2L11-B-28	120 V	1	+18"		1.5	0.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-52	1	CHIT PRINTER	GFCI DUPLEX RECEPTACLE	CNL2L11-B-26	120 V	1	+18"		1.5	0.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-55	1	UNDERCOUNTER REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-64	120 V	1	+18"		3.2	0.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-55	1	UNDERCOUNTER REFRIGERATOR	DUPLEX RECEPTACLE	CNL2L11-66	120 V	1	+18"		3.2	0.4	3/4" CND W/ (2) #12, #12 GND		20/1
1-56	1	PATIENT ORDERING STATION	GFCI DUPLEX RECEPTACLE	CNL2L11-B-30	120 V	1	+60"		1.5	0.2	3/4" CND W/ (2) #12, #12 GND		20/1
1-61	1	OVEN-STEAMER, COMBINATION, GAS ROLL-IN	JUNCTION BOX	CNL2L11-A-15	120 V	1	+18"		8.3	1.0	3/4" CND W/ (2) #12, #12 GND		20/1
1-62	1	WARMER DRAWER	DUPLEX RECEPTACLE	CNL2L11-B-32	120 V	1	+18"		7.5	0.9	3/4" CND W/ (2) #12, #12 GND		20/1

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

△	DATE	REVISION

No. 7057918
CARLTON A.
GETZ
01/23/2020

KITCHEN
EQUIPMENT
SCHEDULE

EP602

PANEL: "CNL2L11"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	400 AMPERE MAIN LUGS		SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR **AIC RATING:** (EXISTING)

CKT	OCP		LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	30	2	--	--	--	(EX) NURISHMENT RM	0.0	0.0					(EX) K-286	--	--	--	3	100	2
3	--	--	--	--	--	--			0.0	0.0			--	--	--	--	--	--	4
5	20	1	--	--	--	(EX) NURISHMENT RM					0.0	0.0	--	--	--	--	--	--	6
7	20	2	--	--	--	(EX) K-262	0.0	0.0					(EX) TRAY ASSEMBLY	--	--	--	1	20	8
9	--	--	--	--	--	--			0.0	0.0			(EX) TRAY ASSEMBLY	--	--	--	1	20	10
11	20	1	--	--	--	(EX) K-275					0.0	0.0	(EX) TRAY ASSEMBLY	--	--	--	1	20	12
13	20	1	--	--	--	(EX) K-266	0.0	0.0					(EX) DIRECTORS OFFICE	--	--	--	1	20	14
15	20	1	--	--	--	(EX) K-267			0.0	0.0			(EX) SUPERVISORS OFFICE	--	--	--	1	20	16
17	20	1	--	--	--	(EX) K-263					0.0	0.0	(EX) SUPERVISORS OFFICE	--	--	--	1	20	18
19	20	1	--	--	--	(EX) NURISHMENT RM	0.0	0.0					(EX) PRODUCTION MANAGER	--	--	--	1	20	20
21	20	1	--	--	--	(EX) NURISHMENT RM			0.0	0.0			(EX) CAMPUS MANAGER	--	--	--	1	20	22
23	20	1	--	--	--	(EX) DIET TECH. OFFICE					0.0	0.0	(EX) EXEC. CHEF	--	--	--	1	20	24
25	40	3	--	--	--	(EX) K-252	0.0	0.0					(EX) EDUCATOR	--	--	--	1	20	26
27	--	--	--	--	--	--			0.0	0.0			(EX) CONF. RM.	--	--	--	1	20	28
29	--	--	--	--	--	--					0.0	0.0	(EX) COPY RM.	--	--	--	1	20	30
31	30	3	--	--	--	(EX) K-253	0.0	0.0					(EX) RECEPTION	--	--	--	1	20	32
33	--	--	--	--	--	--			0.0	0.0			(EX) SPARE	--	--	--	1	20	34
35	--	--	--	--	--	--					0.0	0.0	(EX) SPARE	--	--	--	1	20	36
37	100	3	--	--	--	(EX) K-257	0.0	0.0					(EX) SPARE	--	--	--	1	20	38
39	--	--	--	--	--	--			0.0	1.4			(1-05) ROLL-IN FRIDGE (NOTE 1)	0.0	1.4	0.0	1	20	40
41	--	--	--	--	--	--					0.0	1.4	(1-05) ROLL-IN FRIDGE (NOTE 1)	0.0	1.4	0.0	1	20	42
43	20	1	--	--	--	(EX) DIET TECH. OFFICE	0.0	1.4					(1-07) COFFEE/TEA BREWER	0.0	1.4	0.0	1	20	44
45	20	1	--	--	--	(EX) K-257			0.0	1.4			(1-07) COFFEE/TEA BREWER	0.0	1.4	0.0	1	20	46
47	20	1	--	--	--	(EX) POT/PAN WASH					0.0	1.4	(1-07) COFFEE/TEA BREWER	0.0	1.4	0.0	1	20	48
49	20	1	--	--	--	(EX) TRAY ASSEMBLY, K-273	0.0	2.5					(1-13) ELEC. CONVEYOR TOASTERS	0.0	5.0	0.0	2	30	50
51	20	1	--	--	--	(EX) TRAY ASSEMBLY, K-273			0.0	2.5			--	--	--	--	--	--	52
53	20	1	--	--	--	(EX) K-283					0.0	0.9	(1-46) REACH-IN FREEZER (NOTE 1)	0.0	0.9	0.0	1	20	54
55	20	1	--	--	--	(EX) K-279	0.0	1.2					(1-47) EXHAUST HOOD (NOTE 1)	0.0	1.2	0.0	1	20	56
57	20	1	--	--	--	(EX) K-279			0.0	0.6			(1-51)BLAST CHL/SHOCK FZR (NOTE 1)	0.0	1.9	0.0	3	20	58
59	20	1	--	--	--	(EX) SPARE					0.0	0.6	--	--	--	--	--	--	60
61	20	1	--	--	--	(EX) SPARE	0.0	0.6					--	--	--	--	--	--	62
63	40	3	0.0	8.7	0.0	POWER - RAIL SYSTEM (NOTE 1)			2.9	0.4			(1-55) U.COUNTER FRIDGE (NOTE 1)	0.0	0.4	0.0	1	20	64
65	--	--	--	--	--	--					2.9	0.4	(1-55) U.COUNTER FRIDGE (NOTE 1)	0.0	0.4	0.0	1	20	66
67	--	--	--	--	--	--	2.9	22.4					PANEL "CNL2L11-B"	0.7	53.8	0.0	3	125	68
69	40	3	0.0	8.7	0.0	POWER - RAIL SYSTEM (NOTE 1)			2.9	17.0			--	--	--	--	--	--	70
71	--	--	--	--	--	--					2.9	15.2	--	--	--	--	--	--	72
73	--	--	--	--	--	--	2.9	2.2					PANEL "CNL2L11-A"	0.0	8.2	0.0	3	100	74
75	40	3	0.0	8.7	0.0	POWER - RAIL SYSTEM (NOTE 1)			2.9	3.9			--	--	--	--	--	--	76
77	--	--	--	--	--	--					2.9	2.1	--	--	--	--	--	--	78
79	--	--	--	--	--	--	2.9	0.0					PANEL "CNL2L11-T"	--	--	--	3	100	80
81	20	1	--	--	--	(EX) SPARE			0.0	0.0			--	--	--	--	--	--	82
83	20	1	--	--	--	(EX) SPARE					0.0	0.0	--	--	--	--	--	--	84

TOTALS: CONNECTED kVA PER PHASE **39** **36** **31** CONNECTED TOTAL kVA = **105**

CONNECTED AMPS PER PHASE **331** **305** **255** AVERAGE CONNECTED AMPS PER PHASE = **292**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = **70**

RECEPTACLES: **0.7 kVA @ 100% = 0.7 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = **194**

KITCHEN EQUIPMENT: **78.6kVA@65%=51.1kVA** - 65% CONNECTED LOAD PER NEC.

ALL OTHER LOADS @ 100% : **18.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

NOTE 1: PROVIDE GFCI CIRCUIT BREAKER FOR INDICATED BRANCH CIRCUIT.

PANEL: "CNL2L1E"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE		

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR **AIC RATING:** (EXISTING)

CKT	OCP			LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		--	--	--	(EX) CLL2G07/G10/G22 DOORS	0.0	0.0					(EX) CLL2N01 DOORS	--	--	--		1	20	2
3	20	1		--	--	--	(EX) CLL2L19 DOOR			0.0	0.0			(EX) CLL2N01/N14 DOORS	--	--	--		1	20	4
5	20	1		--	--	--	(EX) CLL2C01/B05 DOORS					0.0	0.0	(EX) MED GAS DOORS	--	--	--		1	20	6
7	20	1		--	--	--	(EX) CLL2C15 STAIR DOOR	0.0	0.0					(EX) CLL2I02/I03 DOORS	--	--	--		1	20	8
9	20	1		--	--	--	(EX) CLL2H09 ELEV C18 ACCESS			0.0	0.0			(EX) CLL2N12 DOOR	--	--	--		1	20	10
11	20	1		--	--	--	(EX) CLL2H37 ELEV C18 CURTAIN					0.0	0.0	(EX) CLL2O05 & STAIR C8 DOOR	--	--	--		1	20	12
13	20	1		--	--	--	(EX) CLL2H09 ELEV C19 ACCESS	0.0	0.0					(EX) CLL2D05 SMOKE CURTAIN	--	--	--		1	20	14
15	20	1		--	--	--	(EX) CLL2H09 ELEV C16 ACCESS			0.0	0.0			(EX) CLL2C01 FIRE SUP PANEL	--	--	--		1	20	16
17	20	1		--	--	--	(EX) CLL2H09 ELEV C17 ACCESS					0.0	0.0	(EX) CLL2C01 FIRE ALARM PANEL	--	--	--		1	20	18
19	20	1		--	--	--	(EX) CLL2M03A ELEV C16 CURT	0.0	0.0					(EX) CLL2C01 SECURITY PANEL	--	--	--		1	20	20
21	20	1		--	--	--	(EX) CLL2M03A ELEV C17 CURT			0.0	0.0			(EX) DOOR CLL1I32	--	--	--		1	20	22
23	20	1		--	--	--	(EX) MAIL & STAIR C6 DOORS					0.0	0.0	(EX) CLL2O15 FIRE SUP PANEL	--	--	--		1	20	24
25	20	1		--	--	--	(EX) CLL2E02/E15 DOORS	0.0	0.0					(EX) CLL2O15 FIRE ALARM PANEL	--	--	--		1	20	26
27	20	1		--	--	--	(EX) CLL2J22 ELEV C20 ACCESS			0.0	0.0			(EX) CLL2O15 FIRE SECURITY PANEL	--	--	--		1	20	28
29	20	1		0.0	1.0	0.0	DIETARY KITCHEN EGRESS DOOR					1.0	0.0	(EX) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EX) SPARE	0.0	0.0					(EX) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EX) SPARE			0.0	0.0			(EX) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EX) SPARE					0.0	0.0	(EX) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EX) SPARE	0.0	0.0					(EX) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EX) SPARE			0.0	0.0			(EX) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EX) SPARE					0.0	0.0	(EX) SPARE	--	--	--		1	20	42

TOTALS: CONNECTED kVA PER PHASE **0** **0** **1** CONNECTED TOTAL kVA = **1**

CONNECTED AMPS PER PHASE **0** **0** **8** AVERAGE CONNECTED AMPS PER PHASE = **3**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = **1**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = **3**

ALL OTHER LOADS @ 100% : **1.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "CNL2L11-A"(NEW)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	WASH ROOM CLL2J02	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, SHUNT TRIP MAIN BREAKER **AIC RATING:** 22000

CKT	OCP		LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	0.8	0.0	(1-16) REF. EQUIP. STAND (NOTE 1)	0.8	0.0					SPARE	--	--	--	1	20	2
3	20	1	0.0	1.9	0.0	(1-17) COOK&HOLD OVEN (NOTE 1)			1.9	0.0			SPARE	--	--	--	1	20	4
5	20	1	0.0	1.0	0.0	(1-38) FRIDGE BASE (NOTE 1)					1.0	0.0	SPARE	--	--	--	1	20	6
7	20	1	0.0	0.8	0.0	(1-39) REF. SAND. UNIT (NOTE 1)	0.8	0.0					SPARE	--	--	--	1	20	8
9	20	1	0.0	1.0	0.0	(1-40A) FRIDGE BASE (NOTE 1)			1.0	0.0			SPARE	--	--	--	1	20	10
11	20	1	0.0	1.2	0.0	(1-43) CONV. OVEN GAS (NOTE 1)					1.2	0.0	SPARE	--	--	--	1	20	12
13	20	1	0.0	0.6	0.0	(1-44) KETTLE (NOTE 1)	0.6	0.0					SPARE	--	--	--	1	20	14
15	20	1	0.0	1.0	0.0	(1-61) OVEN STEAMER, C. (NOTE 1)			1.0	0.0			SPARE	--	--	--	1	20	16
17	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	18
19	20	1	--	--	--	SPARE	0.0	0.0					SPARE	--	--	--	1	20	20

TOTALS: CONNECTED kVA PER PHASE **2** **4** **2** CONNECTED TOTAL kVA = **8**

CONNECTED AMPS PER PHASE **18** **32** **18** AVERAGE CONNECTED AMPS PER PHASE = **23**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = **5**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = **15**

KITCHEN EQUIPMENT: **8.2kVA@65%=5.3kVA** - 65% CONNECTED LOAD PER NEC.

ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

NOTE 1: PROVIDE GFCI CIRCUIT BREAKER FOR INDICATED BRANCH CIRCUIT.

PANEL: "CNL2L11-B"(NEW)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	KITCHEN CLL2E12	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR **AIC RATING:** 22000

CKT	OCP		LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	0.7	0.0	(1-14) JUICE DISPENSER	0.7	2.1					(1-34) HIGH SPEED OVEN (NOTE 1)	0.0	4.2	0.0	2	20	2
3	20	1	0.0	0.8	0.0	(1-16) REF. EQUIPMENT STAND			0.8	2.1			--	--	--	--	--	--	4
5	20	3	0.0	5.4	0.0	(1-20) HEAT ON DEMAND ACT.					1.8	2.1	(1-34) HIGH SPEED OVEN (NOTE 1)	0.0	4.2	0.0	2	20	6
7	--	--	--	--	--	--	1.8	2.1					--	--	--	--	--	--	8
9	--	--	--	--	--	--			1.8	0.9			(1-35) SALAD TOP FRIDGE (NOTE 1)	0.0	0.9	0.0	1	20	10
11	20	3	0.0	5.4	0.0	(1-20) HEAT ON DEMAND ACT.					1.8	0.9	(1-35A) SALAD TOP FRIDGE (NOTE 1)	0.0	0.9	0.0	1	20	12
13	--	--	--	--	--	--	1.8	2.7					(1-36) SANDWICH PRESS	0.0	5.4	0.0	2	30	14
15	--	--	--	--	--	--			1.8	2.7			--	--	--	--	--	--	16
17	20	1	0.0	0.8	0.0	(1-23) U.COUNTER FZR (NOTE 1)					0.8	4.2	(1-37) CHEF'S COUNTER (NOTE 1)	0.0	8.3	0.0	2	40	18
19	20	2	0.0	3.2	0.0	(1-28) FOOD WARMER, OVERHEAD	1.6	4.2					--	--	--	--	--	--	20
21	--	--	--	--	--	--			1.6	0.8			(1-49) HOLD. CAB. & WARM. (NOTE 1)	0.0	0.8	0.0	1	20	22
23	20	2	0.0	3.3	0.0	(1-31) CONVECT. AIR DISH HEATER					1.7	0.2	(1-52) CHIT PRINTER	0.2	0.0	0.0	1	20	24
25	--	--	--	--	--	--	1.7	0.2					(1-52) CHIT PRINTER	0.2	0.0	0.0	1	20	26
27	20	2	0.0	3.3	0.0	(1-31) CONVECT. AIR DISH HEATER			1.7	0.2			(1-52) CHIT PRINTER	0.2	0.0	0.0	1	20	28
29	--	--	--	--	--	--					1.7	0.2	OTHER	0.2	0.0	0.0	1	20	30
31	30	2	0.0	5.4	0.0	(1-32) HEATED S. COUNT. (NOTE 1)	2.7	0.9					(1-62) WARMER DRAWER (NOTE 1)	0.0	0.9	0.0	1	20	32
33	--	--	--	--	--	--			2.7	0.0			SPARE	--	--	--	1	20	34
35	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	36
37	20	1	--	--	--	SPARE	0.0	0.0					SPARE	--	--	--	1	20	38
39	20	1	--	--	--	SPARE			0.0	0.0			SPARE	--	--	--	1	20	40
41	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	42

TOTALS: CONNECTED kVA PER PHASE **22** **17** **15** CONNECTED TOTAL kVA = **55**

CONNECTED AMPS PER PHASE **189** **144** **127** AVERAGE CONNECTED AMPS PER PHASE = **151**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = **36**

RECEPTACLES: **0.7 kVA @ 100% = 0.7 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = **99**

KITCHEN EQUIPMENT: **53.8kVA@65%=35.0kVA** - 65% CONNECTED LOAD PER NEC.

ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

NOTE 1: PROVIDE GFCI CIRCUIT BREAKER FOR INDICATED BRANCH CIRCUIT.

PANEL: "CNL2L11-T"(NEW)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	TRAY ASSEMBLY CLL2I04	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR **AIC RATING:** 22000

CKT	OCP				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	1.4	0.0	(1-05) ROLL-IN FRIDGE (NOTE 1)	1.4	0.9					(1-46) REACH-IN FZR (NOTE 1)	0.0	0.9	0.0	1	20	2
3	20	3	0.0	5.4	0.0	(1-20) HEAT ON DEMAND...			5.4	0.8			(1-49) HOLDING CABINET & WARMER	0.0	0.8	0.0	1	20	4
5	--	--	--	--	--	--					0.0	0.8	(1-49) HOLDING CABINET & WARMER	0.0	0.8	0.0	1	20	6
7	--	--	--	--	--	--	0.0	1.8					(T-01) PORTABLE HAND SINK	0.0	1.8	0.0	1	20	8
9	20	3	0.0	5.4	0.0	(1-20) HEAT ON DEMAND...			5.4	1.8			(T-01) PORTABLE HAND SINK	0.0	1.8	0.0	1	20	10
11	--	--	--	--	--	--					0.0	2.7	(T-04) HEATED SERVING COUNTER	0.0	5.4	0.0	2	30	12
13	--	--	--	--	--	--	0.0	2.7					--	--	--	--	--	--	14
15	20	1	0.0	1.8	0.0	(1-22) AIR CURTAIN...			1.8	2.4			(T-05) BANQUET CABINET	0.0	2.4	0.0	1	20	16
17	20	1	0.0	1.8	0.0	(1-22) AIR CURTAIN...					1.8	0.0	SPARE	--	--	--	1	20	18
19	20	1	0.0	1.8	0.0	(1-22) AIR CURTAIN...	1.8	0.0					SPARE	--	--	--	1	20	20
21	20	1	0.0	1.8	0.0	(1-22) AIR CURTAIN...			1.8	0.0			SPARE	--	--	--	1	20	22
23	20	1	0.0	1.8	0.0	(1-22) AIR CURTAIN...					1.8	0.0	SPARE	--	--	--	1	20	24
25	20	1	0.0	1.8	0.0	(1-22) AIR CURTAIN...	1.8	0.0					SPARE	--	--	--	1	20	26
27	20	1	0.0	1.2	0.0	(1-23) UNDERCOUNTER FREEZER			1.2	0.0			SPARE	--	--	--	1	20	28
29	20	2	0.0	3.3	0.0	(1-31) CONVECT. AIR DISH...					3.3	0.0	SPARE	--	--	--	1	20	30
31	--	--	--	--	--	--	0.0	0.0					SPARE	--	--	--	1	20	32
33	20	2	0.0	3.3	0.0	(1-31) CONVECT. AIR DISH...			3.3	0.0			SPARE	--	--	--	1	20	34
35	--	--	--	--	--	--					0.0	0.0	SPARE	--	--	--	1	20	36
37	30	2	0.0	5.4	0.0	(1-32) HEATED SERVING COUNTER	2.7	0.0					SPARE	--	--	--	1	20	38
39	--	--	--	--	--	--			2.7	0.0			SPARE	--	--	--	1	20	40
41	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	42

TOTALS: CONNECTED kVA PER PHASE **13** **27** **11** CONNECTED TOTAL kVA = **50**

CONNECTED AMPS PER PHASE **113** **226** **88** AVERAGE CONNECTED AMPS PER PHASE = **140**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = **33**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = **91**

KITCHEN EQUIPMENT: **50.4kVA@65%=32.7kVA** - 65% CONNECTED LOAD PER NEC.

ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

NOTE 1: PROVIDE GFCI CIRCUIT BREAKER FOR INDICATED BRANCH CIRCUIT.

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

PANEL SCHEDULES

EP603

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

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PANEL: "CNL2H1"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE		

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:** (EXISTING)

CKT	OCP			LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		--	--	--	(EX) B01,3/G1,4,8,9,33,34 LTS	0.0	0.0					(EX) CNL2X1-1	--	--	--		1	20	2
3	20	1		--	--	--	(EX) G13-17,18,23,24,39,19,24/L07			0.0	0.0			(EX) CNL2X1-2	--	--	--		1	20	4
5	20	1		--	--	--	(EX) CLL2G09-18,32 LIGHTS					0.0	0.0	(EX) CNL2X1-3	--	--	--		1	20	6
7	20	1		--	--	--	(EX) H10,17-23,29,32 LIGHTS	0.0	0.0					(EX) CNL2X1-4	--	--	--		1	20	8
9	20	1		--	--	--	(EX) CL02D10, 21-23 LIGHTS			0.0	0.0			(EX) CNL2X1-5	--	--	--		1	20	10
11	20	1		--	--	--	(EX) STAIR C4 FAN COILS					0.0	0.0	(EX) CNL2X1-6	--	--	--		1	20	12
13	20	1		--	--	--	(EX) STAIR C9 FAN COILS	0.0	0.0					(EX) CNL2X1-7	--	--	--		1	20	14
15	15	3		--	--	--	(EX) HV-C-1 HOUSE VACUUM			0.0	0.0			(EX) SPARE	--	--	--		1	20	16
17	--	--		--	--	--	--					0.0	0.0	(EX) SPARE	--	--	--		1	20	18
19	--	--		--	--	--	--	0.0	0.0					(EX) SPARE	--	--	--		1	20	20
21	20	1		--	--	--	(EX) SPARE			0.0	0.0			(EX) SPARE	--	--	--		1	20	22
23	20	1		--	--	--	(EX) SPARE					0.0	0.0	(EX) SPARE	--	--	--		1	20	24
25	20	1		--	--	--	(EX) SPARE	0.0	0.0					(EX) SPARE	--	--	--		1	20	26
27	20	1		--	--	--	(EX) SPARE			0.0	0.0			(EX) SPARE	--	--	--		1	20	28
29	20	1		--	--	--	(EX) SPARE					0.0	0.0	(EX) SPARE	--	--	--		1	20	30
31	20	1		--	--	--	(EX) SPARE	0.0	0.0					(EX) SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EX) SPARE			0.0	0.0			(EX) SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EX) SPARE					0.0	0.0	(EX) SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EX) SPARE	0.0	0.0					(EX) SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EX) SPARE			0.0	0.0			(EX) SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EX) SPARE					0.0	0.0	(EX) SPARE	--	--	--		1	20	42
TOTALS:							CONNECTED kVA PER PHASE	**0**		**0**		**0**		CONNECTED TOTAL kVA =		**0**					
							CONNECTED AMPS PER PHASE	**0**		**0**		**0**		AVERAGE CONNECTED AMPS PER PHASE =		**0**					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **0**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **0**

ALL OTHER LOADS @ 100% : **0.0 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "CNL2H1Q"(EXISTING)

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE		

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:** (EXISTING)

CKT	OCP			LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		--	--	--	(EX) CLL2B02 BMS CONTROL	0.0	0.0					(EX) DP-C-1	--	--	--		3	15	2
3	20	1		--	--	--	(EX) CLL2G37 BMS CONTROL			0.0	0.0			--	--	--	--		--	--	4
5	20	1		--	--	--	(EX) CLL2G30 BMS CONTROL					0.0	0.0	--	--	--	--		--	--	6
7	20	1		--	--	--	(EX) CLL12/L27 BMS CONTROL	0.0	0.0					(EX) FC-C-34,35	--	--	--		3	20	8
9	20	1		--	--	--	(EX) CLL2C05 BMS CONTROL			0.0	0.0			--	--	--	--		--	--	10
11	20	1		--	--	--	(EX) CLL2H05 BMS CONTROL					0.0	0.0	--	--	--	--		--	--	12
13	20	1		--	--	--	(EX) CLL2M05 BMS CONTROL	0.0	0.0					(EX) FC-C-36,37,38	--	--	--		3	20	14
15	20	1		--	--	--	(EX) CLL2H39 BMS CONTROL			0.0	0.0			--	--	--	--		--	--	16
17	20	1		--	--	--	(EX) CLL2M12 BMS CONTROL					0.0	0.0	--	--	--	--		--	--	18
19	20	1		--	--	--	(EX) SPARE	0.0	2.1					EXHAUST FAN (DEF-1)	0.0	6.3	0.0		3	20	20
21	20	1		--	--	--	(EX) SPARE			0.0	2.1			--	--	--	--		--	--	22
23	20	1		--	--	--	(EX) SPARE					0.0	2.1	--	--	--	--		--	--	24
25	20	1		--	--	--	(EX) SPARE	0.0	2.1					EXHAUST FAN (DEF-2)	0.0	6.3	0.0		3	20	26
27	20	1		--	--	--	(EX) SPARE			0.0	2.1			--	--	--	--		--	--	28
29	20	1		--	--	--	(EX) SPARE					0.0	2.1	--	--	--	--		--	--	30
31	20	1		--	--	--	(EX) SPARE	0.0	0.0					SPARE	--	--	--		1	20	32
33	20	1		--	--	--	(EX) SPARE			0.0	0.0			SPARE	--	--	--		1	20	34
35	20	1		--	--	--	(EX) SPARE					0.0	0.0	SPARE	--	--	--		1	20	36
37	20	1		--	--	--	(EX) SPARE	0.0	0.0					SPARE	--	--	--		1	20	38
39	20	1		--	--	--	(EX) SPARE			0.0	0.0			SPARE	--	--	--		1	20	40
41	20	1		--	--	--	(EX) SPARE					0.0	0.0	SPARE	--	--	--		1	20	42
TOTALS:							CONNECTED kVA PER PHASE	**4**		**4**		**4**		CONNECTED TOTAL kVA =		**13**					
							CONNECTED AMPS PER PHASE	**15**		**15**		**15**		AVERAGE CONNECTED AMPS PER PHASE =		**15**					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **14**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **17**

ALL OTHER LOADS @ 100% : **14.2 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA													NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SPEED	CTRL VOLT	SELECTOR SWITCH	PUSH BUTTON	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY	SCHEMATIC REFERENCE	REMOTE CTRL		
DEF-1	1	EXHAUST FAN	5.0		9.5	7.6	480	3	60	CC #2	E	20A C/B	PANEL	E	30A D/S	ADJ. TO UNIT	Q	VFD	TRAY ASSEMBLY CLL2E13													DEF-1
DEF-2	1	EXHAUST FAN	5.0		9.5	7.6	480	3	60	CC #2	E	20A C/B	PANEL	E	30A D/S	ADJ. TO UNIT	Q	VFD	TRAY ASSEMBLY CLL2E13													DEF-2

EQUIPMENT SCHEDULE KEY

E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET
01/22/2020

	DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

ELECTRICAL SCHEDULES

EP604

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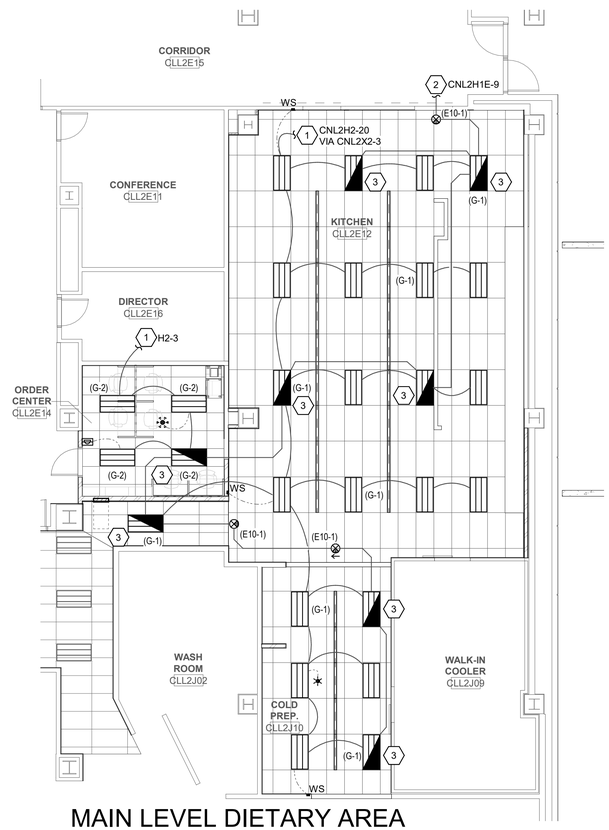
LIGHTING FIXTURE SCHEDULE

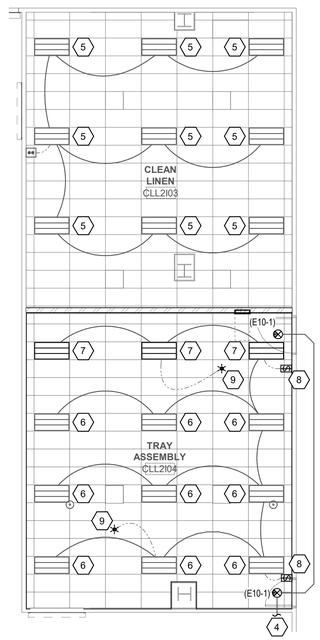
NOTE TO BIDDERS: COMPLY WITH THE SPECIFICATIONS.
REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

SYMBOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER		1 NOTES
	E10	EXIT SIGN: METAL HOUSING; CEILING MOUNT, SEE DRAWINGS; ARROWS PER PLANS; LED LAMPS; A/C ONLY; EDGE LIGHTED CLEAR LENS; GREEN LETTERS ON CLEAR BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS. UNITS SHOWN ARE CEILING MOUNT MODELS. CONTRACTOR TO PROVIDE MATCHING LOW LEVEL WALL MOUNTED UNITS WHERE REQUIRED.						
	E10-1	SINGLE FACE:	LED	1W	120/277V	DUAL-LITE MCPHILBEN EELP LITHONIA ISOLITE EVENLITE CHLORIDE LIGHTOLIER	LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 EUN-AC-G-1C SOV-AC-G-1C-WH-XX-XX STDLX-X-1-GC-X LEAC1GCX	
	G	DECORATIVE LENSED TROFFERS: RECESSED FOR LAY-IN GRID; ACRYLIC PRISMATIC LENS; EARTHQUAKE CLIPS, LED DRIVER 0-10 VOLT DIMMING DRIVER WHERE INDICATED IN PRODUCT NUMBER.						
	G-1	RECESSED LED FIXTURE, 2X4, ACRYLIC DIFFUSER, ~5000 LUMENS, MULTI VOLT, 4000K, GRID MOUNTED, MINIMUM 82 CRI	LED	40W	UNV	METALUX	24FP4740C	
	G-2	RECESSED LED FIXTURE, 2X4, ACRYLIC DIFFUSER, ~5000 LUMENS, MULTI VOLT, 4000K, GRID MOUNTED, MINIMUM 82 CRI	LED	50W	UNV	DAY-BRITE	2-EV-G-48L-840-4-D-UNV-DIM	



1 MAIN LEVEL DIETARY AREA LIGHTING PLAN

SCALE: 1/8" = 1'-0"



2 MAIN LEVEL TEMPORARY PREPARATION LIGHTING PLAN

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

1 EXTEND EXISTING LIGHTING BRANCH CIRCUIT MAINTAINED DURING DEMOLITION TO NEW LIGHT FIXTURES AND RECONNECT.

2 CONNECT TO EXISTING LIFE SAFETY LIGHTING BRANCH CIRCUIT MAINTAINED DURING DEMOLITION SERVING ORIGINAL KITCHEN LIGHT FIXTURES.

3 PROVIDE FIXTURE WITH GENERATOR TRANSFER TO EMERGENCY POWER BRANCH CIRCUIT ON LOSS OF NORMAL POWER LINE VOLTAGE (BODINE GTD OR EQUIVALENT WITH PRIOR APPROVAL).

4 CONNECT TO EXISTING LIFE SAFETY LIGHTING BRANCH CIRCUIT SERVING ORIGINAL FIXTURE.

5 EXISTING LIGHT FIXTURE TO REMAIN. RECONFIGURE EXISTING LIGHTING BRANCH CIRCUITING AS NOTED ON PLANS. AFTER DECOMMISSIONING OF TEMPORARY KITCHEN, RESTORE LIGHTING BRANCH CIRCUIT AND LIGHTING CONTROLS TO ITS ORIGINAL CONDITION.

6 EXISTING FIXTURE TO REMAIN. RECONFIGURE EXISTING LIGHTING BRANCH CIRCUITING AS NOTED ON PLANS.

ADD ALTERNATE: PROVIDE NEW TYPE (G-1) LIGHT FIXTURE. CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT MAINTAINED DURING DEMOLITION. AFTER DECOMMISSIONING OF TEMPORARY KITCHEN, REPLACE WITH ORIGINAL LIGHT FIXTURES SALVAGED DURING DEMOLITION AND RESTORE LIGHTING BRANCH CIRCUIT AND LIGHTING CONTROLS TO ITS ORIGINAL CONDITION.

7 REINSTALL EXISTING LIGHT FIXTURE SALVAGED DURING DEMOLITION. RECONFIGURE EXISTING LIGHTING BRANCH CIRCUITING AS NOTED ON PLANS.

ADD ALTERNATE: PROVIDE NEW TYPE (G-1) LIGHT FIXTURE. CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT MAINTAINED DURING DEMOLITION. AFTER DECOMMISSIONING OF TEMPORARY KITCHEN, REPLACE WITH ORIGINAL LIGHT FIXTURES SALVAGED DURING DEMOLITION AND RESTORE LIGHTING BRANCH CIRCUIT AND LIGHTING CONTROLS TO ITS ORIGINAL CONDITION.

8 PROVIDE NEW LOW VOLTAGE LIGHT SWITCH. AFTER DECOMMISSIONING OF TEMPORARY KITCHEN, REPLACE WITH ORIGINAL LIGHT SWITCH SALVAGED DURING DEMOLITION AND RESTORE LIGHTING BRANCH CIRCUIT AND LIGHTING CONTROLS TO ITS ORIGINAL CONDITION.

9 PROVIDE NEW OCCUPANCY SENSOR. AFTER DECOMMISSIONING OF TEMPORARY KITCHEN, REMOVE AND SALVAGE OCCUPANCY SENSOR AND RETURN TO OWNER.

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Intermountain IMC Dietary Room Service Remodel

5300 SOUTH
MURRAY, UTAH 84123

PROJECT #: 19022

PERMIT REVIEW SET 01/22/2020	
DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
No. 7057918
CARLTON A. GETZ
01/23/2020
STATE OF UTAH

MAIN LEVEL LIGHTING PLAN

EL101

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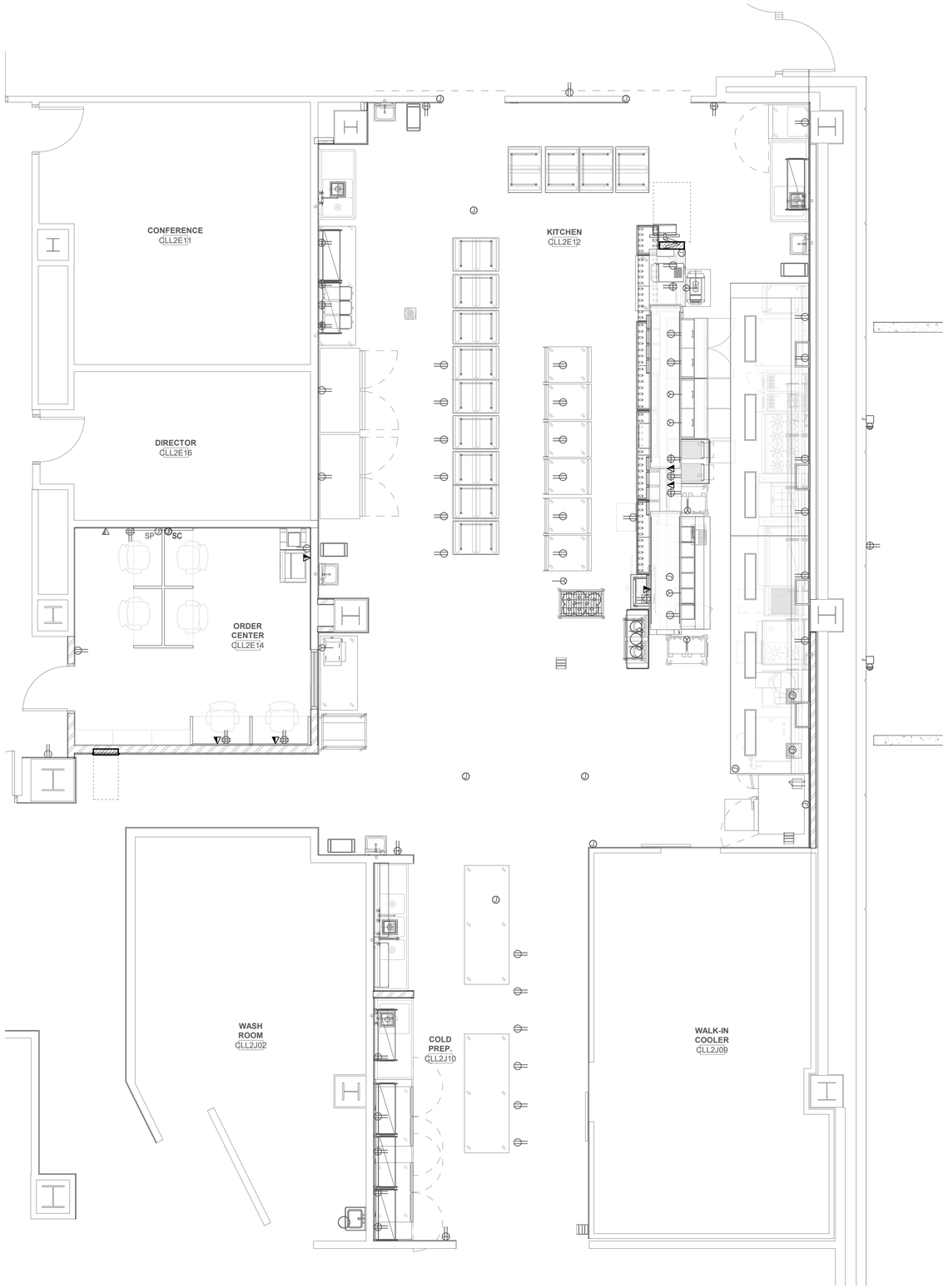
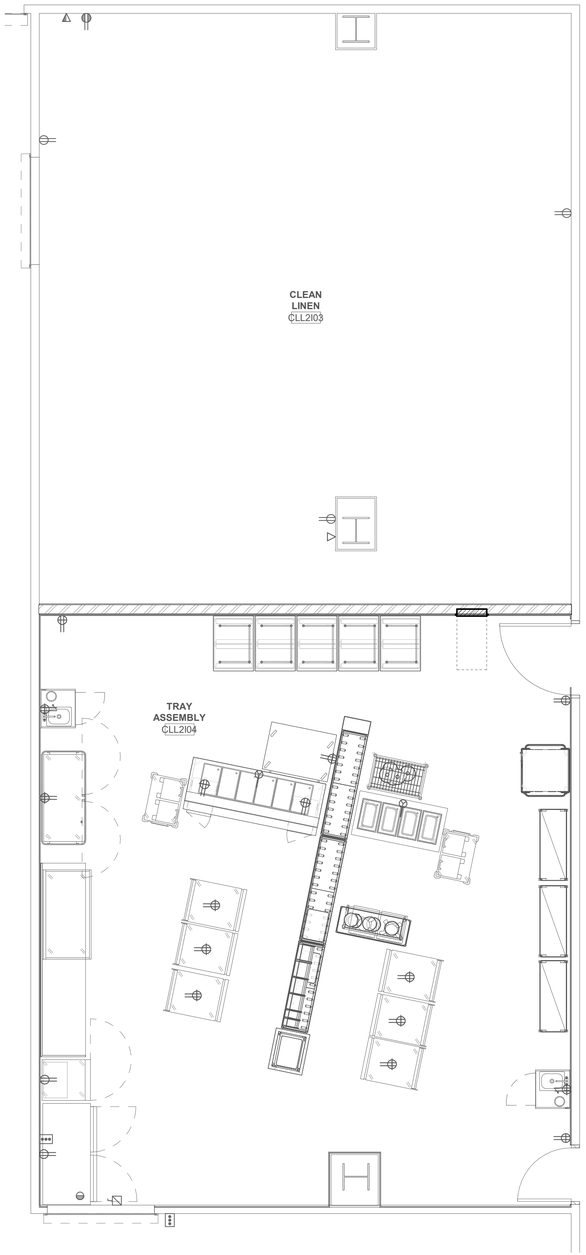


2 MAIN LEVEL DIETARY AREA TELECOMMUNICATIONS FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 MAIN LEVEL TEMPORARY PREPARATION TELECOMMUNICATIONS FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

⬡ SHEET KEYNOTES

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NOTES

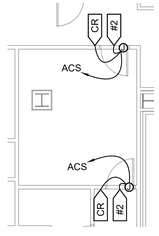
1. PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
3. CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.
4. LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
5. DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
6. ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS

DBL	=	DOUBLE
DIR	=	DIRECTION
HDWR	=	HARDWARE
C	=	CONDUIT
4SQ	=	FOUR SQUARE
W/	=	WITH
1G	=	1 GANG
PWR	=	POWER
ACC	=	ACCESSIBLE
OCC	=	OCCUPANCY
TYP	=	TYPICAL
LPS	=	LOCK POWER SUPPLY
CR	=	CARD READER
CI	=	DOOR CONTACT INDICATOR
EPT	=	ELECTRIC POWER TRANSFER
ES	=	ELECTRIC STRIKE
ED	=	EXIT DEVICE
ML	=	ELECTROMAGNETIC LOCK
KS	=	KEY SWITCH
ACS	=	ACCESS CONTROL SYSTEM
EL	=	ELECTRIC LOCKSET
MD	=	MOTION DETECTOR
TLC	=	TIME/SYSTEM LOCK CONTROL
ELC	=	EMERGENCY LOCK CONTROL
IDS	=	INTRUSION DETECTION SYSTEM
ADA	=	AUTO DOOR OPENER
REX	=	REQUEST TO EXIT
FA	=	FIRE ALARM SYSTEM
OFP	=	OBTAIN FROM PLANS
A/R	=	AS REQUIRED
EED	=	ELECTRIC EXIT DEVICE (SEE SECTION 87100)
AEL	=	ACCESS ELECTRIC LOCKSET (SEE SECTION 87100)
FH	=	FRAME HARNESS
DH	=	DOOR HARNESS
EH	=	ELECTRIC HINGE
LA	=	ELECTROLYNX ADAPTOR
CNT	=	CONTROLLER
HO	=	ELECTROMAGNETIC HOLDER

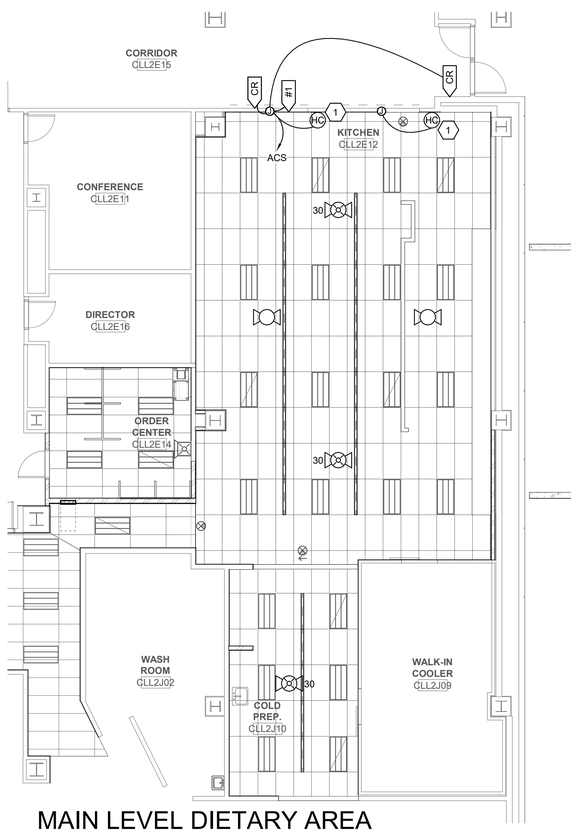
CARD ACCESS DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1	CR, TO ACS, #1, CR HARDWARE SET:	SLIDING DOOR CONTROL, 2 CARD READERS	4SQ J-BOX ABOVE ACC CEILING, AUTO OPENER	4SQ J-BOX ABOVE ACC CEILING, .75" C (TYP), CARD READER 4SQ BOX W/ 1G RING 40", CARD READER 4SQ BOX W/ 1G RING 40"	N/A	SECURITY CONTRACTOR PROVIDES: • CR HARDWARE CONTRACTOR PROVIDES: • ADA LOCK CONTROLLED BY: • CR
TYPE 2	CR, TO ACS, #2, R HARDWARE SET(S):	SINGLE DOOR, 1 CARD READER, FREE EGRESS, ELECTRIC MAGNETIC LOCK	.75" C (TYP), 4SQ J-BOX ABOVE ACC CEILING, LOCAL ALARM 1G BOX, MAGNETIC LOCK, R, RELEASE BUTTON	4SQ J-BOX ABOVE ACC CEILING, .75" C (TYP), CARD READER 4SQ BOX W/ 1G RING 40"	MAGNETIC LOCK	SECURITY CONTRACTOR PROVIDES: • CR HARDWARE CONTRACTOR PROVIDES: • MAG, LPS, RS LOCK CONTROLLED BY: • CR, RS



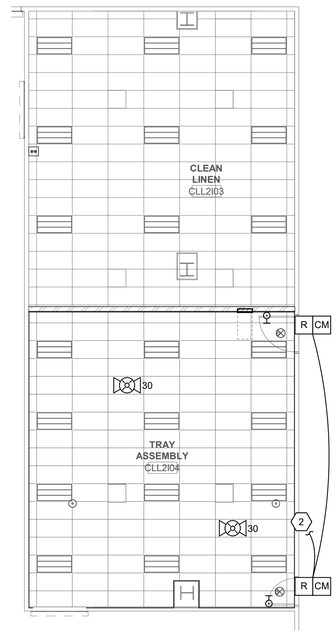
4 MAIN LEVEL AREA C AUXILIARY PLAN

SCALE: 1/8" = 1'-0"



2 MAIN LEVEL DIETARY AREA AUXILIARY PLAN

SCALE: 1/8" = 1'-0"



1 MAIN LEVEL TEMPORARY PREPARATION AUXILIARY PLAN

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE HAND WAVE AUTO DOOR OPENERS (SECURITRON MOTION SENSING OPERATOR). PROVIDE 2-GANG JUNCTION BOX.

2 CONNECT AUTOMATIC DOOR HOLD OPEN RELAY TO EXISTING FIRE ALARM SYSTEM. CONNECT TO NEAREST RECEPTACLE BRANCH CIRCUIT FOR POWER TO RELAY.

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MAIN LEVEL AUXILIARY PLAN

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114000 GENERAL FOOD SERVICE SPECS

PART I - GENERAL

1.1 DESCRIPTION OF WORK

A. Extent of foodservice equipment work is indicated on drawings and by provisions of this section, including schedules, equipment specification sheets and manufacture data sheets and associated with either drawings and/or this section.

B. Refer to Division - 22 sections for required drain traps, steam traps, atmosphere vents, valves, pipes and pipefittings, ductwork, and other materials necessary to complete mechanical hookup of foodservice equipment.

C. Refer to Division - 26 sections for wiring, disconnects, and other materials necessary to complete electrical hookup of foodservice equipment.

D. Refer to Division - 6 sections for millwork, tops, sneeze guards, wood counters, service stations, hutches, bar tops, counter die walls, and all other special millwork conditions as noted on drawings and/or in specifications; not work of this section.

1.2 RELATED WORK

See Appendix D for itemized equipment specifications and manufacture data sheet for all itemized equipment identified on the drawings and schedule.

1.3 WORK INCLUDED

A. Cooperate in every way with other contractors in order that whole installation may result in the highest grade possible.

B. Furnish all valves, faucets, reducing pressure valves, relief valves, sink wastes, tailpieces, strainer, back flow preventers and other specialty items as required for proper operation of specified equipment and as hereinafter specified, and included in this work.

C. Make all necessary cut-outs and knock-outs where required on equipment to accommodate electrical receptacles, switches or other electrical outlets and equipment, together with such cut-outs as required for passage of gas or plumbing lines, etc.

D. Stack and remove rubbish waste material, crating, etc., resulting from work and not needed, keeping the premises at all times in a satisfactory condition. Upon completion of the installation, thoroughly clean all equipment so that it is ready for use by owner.

E. All refrigeration work required to provide for a complete installation of all specified items. To include all piping, all insulation of suction lines, all heat tracing of freezer drain lines, all hangers as required. See Section 114000, 3.05 for additional requirements.

F. Furnish and install stainless steel riser ducts fully welded (seamless) from dishwasher exhaust connection to a point 6" above ceiling for connection to exhaust system by mechanical contractor.

G. THE CONTRACTOR PERFORMING THIS WORK SHALL be factory certified for handling and installation of Corian products when required.

H. Furnish and install all beverage raceways and conduits as specified to include all floor, wall and ceiling penetrations and provide fire stops as required to meet local building codes.

I. THE CONTRACTOR PERFORMING THIS WORK is to coordinate with the Owners Vendor/Supplier of the bulk CO2 System for location, piping valves, tanks, fills, connectors, regulators to run a functioning system. The Owners Vendor of the bulk CO2 System is to furnish and pull the lines from the fill station, to the tanks, to the beverage pump rooms.

J. Refurbishment of existing equipment: To clean and remove all grease and debris, internal and external. Replace all gaskets, trim strips. Verify proper operation by actually connecting unit and verifying operational status.

K. The contractor performing this work is to provide architect, construction manager and or general contractor with all requirements for wall and ceiling mounted equipment and other supports as required to include dimension location plan.

L. Repair of all damage to building resulting from work of this section.

1.4 SUBCONTRACTORS

See General and Supplementary Conditions for requirements of subcontractors, or as specifically specified in 114000.

1.5 QUALITY ASSURANCE

A. All specially fabricated equipment is to be fabricated by a reputable custom fabricator, who is listed with the National Sanitation Foundation, and has been in business for at least 5 years as a manufacturer of equipment of the type specified.

B. Bids must be based on equipment of manufacturers specified. See equipment specification sheets.

C. As areas of work are substantially complete, the firm responsible for the design documents shall provide a punch list of work to be completed for the responsible contractor to correction and or completion within 10 working days.

1.6 CODES AND STANDARDS

A. NSF Standards: Comply with applicable National Sanitation Foundation (NSF) standards and recommended criteria. Provide each principal item of foodservice equipment with a NSF "Seal of Approval."

B. UL Labels: Where available, provide UL Labels on prime electrical components of foodservice equipment. Provide UL "recognized marking" on other items with electrical components, signifying listing by UL, where available.

C. ANSI Standards: Comply with applicable ANSI standards for electric powered and gas-burning appliances, for piping to compressed gas cylinders, and for plumbing fittings including vacuum breakers and air gaps to prevent siphonage in water piping.

D. NFPA Codes: Install foodservice equipment in accordance with the following National Fire Protection (NFPA) Codes:
1. NFPA 54 - National Fuel Gas Code
2. NFPA 70 - National Electrical Code
3. NFPA 96 - Removal of Smoke and Grease-Laden Vapors from Commercial Cooking

E. ASME Boiler Code: Construct steam generating and closed steam heating equipment to comply with American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code; Section IV for units not exceeding 15 psi or 250 degrees F (121 degrees C), or Section I for higher pressure/temperature units.

F. Health Code: Install foodservice equipment in accordance with local health department applicable regulations.

Rulings and interpretations of the state and local enforcing agencies shall be considered a part of the regulations and shall include fees for licensing of equipment and necessary signatures and notaries on foodservice drawings as may be required for approval.

1.7 GENERAL RELATED CONDITIONS

A. In each item of equipment hereinafter specified under the "Schedule of Items of Equipment," these specifications shall only identify each respective item by name and number, as well as list various component parts provided for same. Therefore, it shall be intended that these respective items and their component parts shall be of material (mounted where applicable) constructed and furnished in strict accordance to that described in the general specifications for these items and integrally constructed where applicable.

B. It shall also be intended that where buy-out (pre-fabricated) items are specified, same shall be definitely furnished with all the accessories as normally furnished by manufacturer for these items. Also in strict accordance with current manufacturers engineering data sheet for each respective item.

PART I - GENERAL (CONTINUED)

1.8 EXAMINATION OF PLANS AND SPECIFICATIONS, INTERPRETATIONS

C. Plans and specifications are furnished for the use of the contractor responsible for the work preparing an itemized cost estimate and indicate the design intent of the project.

D. All discrepancies such as but not limited to drafting errors, quantities, descriptions, utilities information, model numbers, etc., are to be addressed in the form of a written RFI to the Architect of record.

E. Interpretation of this documents in section 140000 and all foodservice drawings is the sole responsibility of the author of this specification section.

1.9 COORDINATION

A. It shall be the responsibility of the CONTRACTOR PERFORMING THIS WORK to keep up to date with progress made in the field and installation of all necessary utility roughins required to accommodate all equipment specified, and as shown on drawings, and to make as many visits to the job site as is necessary to check and assure that all roughins are being properly installed to accommodate this equipment.

B. THE CONTRACTOR PERFORMING THIS WORK is responsible for the field verification and coordination of delivery access into and through the construction site. Verifying clearances, access points, sizes and weight of elevator restrictions for all foodservice equipment. If necessary, the contractor performing this work is to modify foodservice equipment to fit and reassemble once the equipment gets to its final location.

C. CONTRACRTOR RESPONSIBLE FOR THIS WORK is to cooperate with all trades so that the end results of his work will be a satisfactory, approved and accepted installation. Written reports of each visit shall be sent promptly to the Architect and the Foodservice Consultant.

D. Progress of construction is of paramount importance in executions of this project. CONTRACTOR RESPONSIBLE FOR THIS WORK is to carry out his work so that no delay in the completion of this project is incurred.

E. CONTRACTOR RESPONSIBLIE FOR THIS WORK is to procure all specified equipment and coordinate installation as required by project schedule.

1.10 MODIFICATIONS/RESET OF EXISTING EQUIPMENT (IF ANY)

A. All equipment noted in the specification as "Existing/Reset" shall be modified and relocated as specified and shown on the drawings.

B. Bidders shall carefully examine the specifications and projects site including location and condition of existing equipment to determine cost for each "Existing/Reset" and "Existing/Modify" item to cover removal, modification (including materials), and transportation to site, cleaning, inspection for damage, repair and resetting. Coordinate locations of existing equipment with owner.

C. Each "Existing/Reset" item shall be clean, in good repair and operable when reset.

1.11 RESERVATIONS AND CONDITIONS

A. It is the intent of this specification to complete the installation of all equipment covered herein in all phases ready for operation. Contractor shall carefully examine the plans and the specifications for building construction contracts and determine there from the extent of his operations in all respects. All labor and materials not included in building construction contracts necessary to accomplish this intent are hereby included in this contract.

B. CONTRACTOR RESPONSIBLE FOR THIS WORK shall attend first job meeting and subsequent job meetings when required for purpose of coordinating his work with other trades.

C. All equipment shall be received at the building fully protected. It will be the responsibility of the CONTRACTOR RESPONSIBLE FOR THIS WORK to protect the equipment until completely installed and accepted.

D. CONTRACTOR RESPONSIBLE FOR THIS WORK shall do all things and furnish all material necessary to carry out the full intent and meaning of these specifications.

E. All labor and materials required by the building trades necessary to accomplish this intent are hereby included in the appropriate trade contract.

1.12 SUBMITTALS

Product Data, Utility Rough-In Drawings

A. Shop Drawings:In addition to the following requirements, see Division 1.

B. CONTRACTOR RESPONSIBLE FOR THIS WORK is to submit Product Data, (Specification Books) consisting of the following:

1. Manufacturer's name, cuts, descriptive data, rated capacities and other information necessary for approval before ordering or purchasing. All cuts are to be accompanied by a lead sheet marked with item number, electrical, plumbing and mechanical characteristics, accessories furnished, requested options. Areas of construction can be submitted on an individual basis if appropriate.
2. All item numbers are to be represented in the specification book to include spare numbers, fabricated items, items by owner or others.
3. Specification book is to be an original document produced by the CONTRACTOR RESPONSIBLE FOR THIS WORK and cannot contain photocopies of contract document.
4. Equipment specification books are to be furnished to Architect for approval before ordering or purchasing.

C. CONTRACTOR RESPONSIBLE FOR THIS WORK is to submit Rough-in Drawings consisting of the following:

1. All submissions for review and approval will be based on the published project schedule and submit to Architect (required amount of shops established in Section 01330).
2. All Drawings are to be in 1/4" scale.
3. Rough-in drawings showing locations of mechanical, refrigerant piping, plumbing, steam and electrical connections with elevations and sections of special equipment for use of respective trades, masonry bases, housekeeping pads, depressed floors, positions of walls, requirements for ceiling hangers and any and all special information necessary for complete and correct correlation of various trades and satisfactory installation of all equipment shown on drawings.

D. CONTRACTOR RESPONSIBLE FOR THIS WORK is to submit Shop Drawings consisting of the following:

1. CONTRACTOR RESPONSIBLE FOR THIS WORK shall submit fabrication shop drawings, prior to fabrication, to the architect for approval by JME Hospitality (see Division 01300 for amount of sets required). 3/4" scale shop drawings showing plan and elevations, 1 1/2" scale sections covering all fabricated items of work, drawings are to show location of equipment to be coordinated with item. (Example: Boosters mounted to underside of dishtables. Garbage disposals under sink compartment. The verbiage "by others" is not acceptable and should be defined by trade.)
2. The CONTRACTOR RESPONSIBLE FOR THIS WORK is responsible for all field coordination prior to fabrication of custom equipment (and purchase and delivery of buy-out equipment).

E. If information requested above has been provided by Foodservice Consultant for purpose of expediting the project, the CONTRACTOR RESPONSIBLE FOR THIS WORK shall review all drawings and fully coordinate information provided with the equipment being provided and address all discrepancies and/or drafting errors so that the project is not adversely effected.

F. All submittals should be provided electronically. After all review comments and approvals are completed, submittals will be sent back for distribution, (as specified by Division 01300 of General Specifications), electronically.

G. Foodservice submittal documents are to be signed by CONTRACTOR RESPONSIBLE FOR THIS WORK to indicate they have been reviewed and coordinated with submittals by electrical, plumbing, mechanical, millwork or other trades, and meet all contract requirements. Foodservice Submittal Documents, which are not stamped and approved by CONTRACTOR RESPONSIBLE FOR THIS WORK, will be returned to the CONTRACTOR RESPONSIBLE FOR THIS WORK as "NOT REVIEWED". The CONTRACTOR RESPONSIBLE FOR THIS WORK will be required to resubmit after review, as stated above.

PART I - GENERAL (CONTINUED)

1.13 BASE BIDS AND SUBSTITUTIONS

A. Base bids shall be for furnishing all equipment and material as specified. Failure to furnish bids exactly as specified may disqualify bidder. However, bidders may quote on substitute products by listing them on a separate line in the bid form and the additional cost or credit. All potential substitutions shall be submitted for approval or rejection prior to the submission of bids. All requests must be submitted five (5) working days prior to bid date. No substitution after the bid date will be accepted.

B. Acceptance of proposed substitution is entirely at the discretion of Owner or his Representative, and subject to the following qualifications:

1. Equal in quality of materials used, in structural strength and details of construction.
2. Equal in performance, in productivity, size, and utility requirements.
3. Equal in finish, or in characteristics permitting specified finish to be applied.
4. Availability of replacement parts and maintenance service.

C. The cost of all proposed substitutions shall include all money required to incorporate the substitutions into the project to include design fees if they apply.

D. Late requests for additional monies for substitutions will not be considered.

E. Any variation or modification shall be the sole responsibility of the CONTRACTOR RESPONSIBLE FOR THIS WORK.

F. The CONTRACTOR RESPONSIBLE FOR THIS WORK shall be responsible for all costs associated with the substituted item involving extended review by the Foodservice Consultant, Architect, Engineer, Interior Design consultant and any and all additional parties involved. Costs are to be totaled and deducted from subsequent requests for payment until the total cost has been paid to the appropriate parties.

1.14 SAMPLES

CONTRACTOR RESPONSIBLE FOR THIS WORK shall supply the Architect or his designee with samples of fabricated equipment, such as corner of table with a rolled or inverted "V" edge, corner of dish table, overshelf, drawer assembly, table leg with foot and gusset, etc. In place of this requirement, CONTRACTOR RESPONSIBLE FOR THIS WORK can provide locations within a 50-mile radius of this project where Foodservice Consultant can physically inspect actual items of fabrication.

1.15 MAINTENANCE DATA:

A. Submit for approval for Owner's use, six bound sets and one electronic version of operating and maintenance instructions containing complete description, wiring diagrams, operating data and other information pertaining to the proper operation and up-keep of the various items of mechanical equipment having motors or other moving parts.

B. Include names, addressed and telephone numbers of authorized service agencies for all items with mechanical equipment.

1.16 DELIVERY, STORAGE, AND HANDLING:

A. Deliver foodservice equipment in factory-fabricated containers designed to protect equipment and finish until final installation. Make arrangements to receive equipment at project site, or to hold in warehouse until delivery can be made to job site. Coordinate all site deliveries with construction manager.

B. Store foodservice equipment in original containers, and in location to provide adequate protection to equipment while not interfering with other construction operations.

C. Handle foodservice equipment carefully to avoid damage to component enclosures, and finish. Do not install damaged foodservice equipment; return damaged components to equipment manufacturer, and replace as required.

1.17 UTILITIES AVAILABLE:

A. Electric Voltage: 120/208/480 volt, 60 cycle, 1 & 3 pH., 4 wire.

B. Water Pressure: 40 to 50 pounds, Plumbing Contractor is to provide pressure reducing devices applicable to the foodservice equipment

C. Hot Water: 140 degrees, unless otherwise specified.

D. CONTRACTOR RESPONSIBLE FOR THIS WORK is to verify all utilities and order correct utilities as a part of the equipment requirements.

1.18 GENERAL CHARACTERISTICS OF EQUIPMENT:

Electrically Operated:

1. Electrically operated equipment is to be listed by Underwriters Labs., Inc.
2. Motors: Up to an including 1/2 H.P., shall be 120/60/1.
3. Motors: over 1/2 H.P., 208/60/3, unless otherwise noted.
4. Ranges, food warmers, etc., over 1.5 k.w., 208/60/3, unless otherwise specified.
5. Electrically heated equipment, etc., 1.5 and under, 120/60/1.
6. Single phase. Electrical plug-in units with 3 wire cords; 3 wire cap.
7. Three phase. Electrical plug-in units with 4 wire cords; 4 wire cap.
8. Motor driven equipment: equipped with starting switch.
9. Motors: equipped with overload protection.
10. Wiring on fixtures, including operating switches and pilots, furnished by CONTRACTOR RESPONSIBLE FOR THIS WORK.
11. Submit in writing to Architect for approval, schedule showing proposed electrical characteristics of each piece of equipment and disconnect means provided.
12. Punch holes for and install hood lights and concealed conduits, however, interconnection of same, including control switch, wiring, etc., by the assigned contractor.

PART 2 - PRODUCTS

2.1 GENERAL:

A. Equipment installed for test purposes shall not come within the category of successful commercial operation.

B. Architect and/or Foodservice Consultant shall be privileged to inspect material and fabrication at the CONTRACTOR RESPONSIBLE FOR THIS WORK's facilities at any time.

C. Before proceeding with shop work, CONTRACTOR RESPONSIBLE FOR THIS WORK is to coordinate with General Contractor and do field measurements. Where required dimensions are not immediately obtainable and delay in waiting for these dimensions would cause work to be seriously delayed, the matter shall be referred to Architect for a decision. In obtaining measurements, CONTRACTOR RESPONSIBLE FOR THIS WORK shall consider work requirements of other trades, and equipment designed and fabricated to provide necessary clearance for surrounding and adjoining work.

D. CONTRACTOR RESPONSIBLE FOR THIS WORK is responsible for making any and all necessary adjustments to complete his work in a workmanlike manner, as approved by JME Hospitality. Dimensions as indicated on drawings and specifications are approximate, and are to be adjusted if and where necessary to suit job conditions and field measurements.

PART 2 - PRODUCTS (CONTINUED)

E. Tops of tables, shelves, tops and exterior panels of cabinets, counters, doors, and drainboards, etc., to be constructed of a single sheet of metal. Where size of equipment requires more than one sheet of metal, sheets butt joined with joints continuously welded full length. No joints less than 18" from an edge or end of a piece of equipment. In addition, all joints shall have battens or stiffeners welded to jointed material, ground smooth and polished.

F. Appliances of rigid construction are to be free from objectionable vibration and quiet in operation.

G. Electrical heating elements shall conform to latest standards of National Electrical Manufacturer's Association and Underwriters Labs., Inc., where applicable standards have been set up by such agencies.

H. Motors of ample power to operate machines for which designated under full load operating conditions without exceeding nameplate ratings. Horsepower requirements on driven equipment determined by manufacturer, based on normal operation of maximum capacity. Provide access and ventilation as required.

I. Motors drip-proof, splash proof or totally enclosed type, having two-hour duty cycle and ball bearings (except small timing motors which may have sleeve bearings). All motors shall have windings impregnated to resist moisture. Motors located where adjacent to deposits of dust, lint, etc., totally enclosed type.

J. All manufacturer purchased items (buyout items) shall have all exposed exterior surfaces finished with type 304, #4 finish, stainless steel panels. Any questions are to be referred to JME Hospitality for clarification.

K. All pre-manufactured equipment shall be NSF and UL approved and display the proper identification

2.2 QUALIFIED FABRICATORS

A. Qualifications: Minimum five (5) years' experience in similar work and listed with the National Sanitation Foundation (NSF).

B. Authorized Equipment Fabricators: The following companies are approved custom stainless steel equipment fabricators; request for substitutions can be made per Section 01600.

1.	Keas Stainless Steel Fabricators, Inc.	405-232-0869
2.	Carbone Metal Fabricators	888-806-4263
3.	All Southern Fabricators	800-878-2732
4.	Stainless Fixtures	909-622-1615

2.3 SINKS

A. Sinks that are integral with drainboards shall be fabricated and constructed of same gauge and material as drainboard and splash.

B. Sinks that are integral with table or counter tops may be fabricated or die formed.

1. Fabricated sinks shall be of same gauge and material as top.
2. Die formed sinks shall be not less than 18 Ga. stainless steel.

C. All interior vertical and horizontal corners shall be NSF coved.

D. Partitions between adjacent sink compartments shall be continuously welded radius top closure.

E. Exterior front of multiple compartment sinks shall be continuous.

F. Bottom of all sink compartments shall be pitched to insure complete drainage to waste opening.

2.4 WASTES AND OVERFLOWS:

Sinks to have Encore D15-7310-R lever waste with stainless steel strainer and brass reducer, E22-4131 tailpiece and E50-1000 optional overflow assembly, or equal, to be furnished and installed by CONTRACTOR RESPONSIBLE FOR THIS WORK.

2.5 WATER INLET LOCATION:

A. Located in all cases above the positive water level to prevent siphoning of liquid into water system. Wherever conditions require water inlet below such level, a suitable type of vacuum breaker shall be placed on fixture and form part of same to prevent such siphoning.

B. Faucets

1. Deck mounted mixing faucet assemblies shall be Encore KN61-8012 with 12" swing spout and non-splash aerator, (KL61-8012 for low lead option), or approved equal, unless specified otherwise.
2. Splash mounted mixing faucet assemblies for pot sinks shall be Encore KN54-8012 MK with 12" swing spout and mounting kit (KL54-8012 for low lead option), or approved equal, unless specified otherwise.
3. Splash mounted mixing faucets for preparation and utility sinks shall be Encore KN54-8012 MK with 12" swing spout, non-splash aerator and mounting kit (KL54-8012 for low lead option), or approved equal, unless specified otherwise.
4. Single filler faucets, when specified or shown, for hot food units, bain maries and steam tables, shall be Encore KN64-9012-SE1 with 12" swing spout and non-splash aerator (KL64-9012-SE1 for low lead option), or approved equal, unless specified otherwise.
5. All faucet assemblies shall be polished chromium plated.

C. Pre-Rinse Assemblies

1. Splash mounted pre-rinse assemblies shall be Encore KN53-1000-BR with wall bracket (KL53-1000-BR for low lead option), or approved equal, unless specified otherwise.
2. Deck mounted pre-rinse assemblies shall be Encore KN60-1000-BR with wall bracket (KL60-1000-BR for low lead option), or approved equal, unless specified otherwise.
3. All pre-rinse assemblies shall be polished chrome plated.

2.6 PITCH AND DRAINAGE:

Wherever a fixture is used with waste or drain outlet, surface shall have distinct pitch towards outlet. Drainboards and tables that contain or adjoin sinks shall have a definite pitch towards sinks. Where necessary, surfaces creased and grooved to give a definite pitch.

2.7 SANITATION:

All custom built equipment constructed in accordance with standard No. 2 of National Sanitation Foundation Testing Laboratory, manufactured by a company approved by said Foundation and carrying their stamp of approval. CONTRACTOR RESPONSIBLE FOR THIS WORK must have "Registered" numbered seal on NSF approval. All refrigerated equipment is to meet NSF7 standard and be labeled accordingly.

2.8 MATERIALS USED FOR CUSTOM FABRICATION

A. Metal

- Fabricated items are to be of all stainless steel construction, including legs frame, back and sides unless specified otherwise. Stainless Steel: All new, first grade material; gauges as specified or shown; 18-8, type 304, No. 4 finish, ASTM A 167.

B. Hardware

1. Locks: All metal cabinet doors and drawers shall be furnished with Component Hardware cylinder locks model P30-4750, model P30-4782 or approved equal, all keyed alike unless specified otherwise. CONTRACTOR RESPONSIBLE FOR THIS WORK to coordinate with owner's needs.
2. All wood cabinet doors and drawers shall be furnished with Component Hardware cylinder locks model P30-4750, or approved equal, all keyed alike unless specified otherwise.
3. All refrigerated and heated cabinets of the reach-in and roll-in type shall be furnished with heavy-duty cylinder locks on all doors; all keyed alike unless specified otherwise.
4. Catches: For all cabinet doors, shall be Component Hardware model M30-5920 self-aligning Magnetic, or approved equal, unless specified.

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INTERMOUNTAIN HEALTHCARE
DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

Project Status Issue Date		
△	DATE	REVISION
1	12/20/19	PERMIT REVIEW SET

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

GENERAL FOODSERVICE SPECIFICATIONS

FS-0.1

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

114000 GENERAL FOOD SERVICE SPECS (CONT)

PART 2 - PRODUCTS (CONTINUED)

5. Doors and Drawer Pulls:

   a. For metal cabinet doors and drawers shall be stainless steel round recessed type, Component Hardware model P60-1010, or approved equal, unless shown or specified otherwise.

   b. For metal sliding doors, shall be stainless steel recessed type Component Hardware model P62-1014, or approved equal, unless shown or specified otherwise.

C. Hinges

1. Hinges for metal cabinet doors shall be heavy-duty concealed pivot hinge of stainless steel or cadmium plated, unless shown or specified otherwise.

2. Hinges for wood cabinet doors shall be heavy-duty concealed pivot hinge to harmonize with cabinet finish, unless shown or specified otherwise.

D. Casters

- Casters shall be heavy duty Component Hardware Series CMS (expanding stem), CMP (plate), CMT (threading stem), or approved equal, medium duty, bright zinc or chrome plated, ball bearing type with grease-proof rubber, neoprene or polyurethane tires. Wheels shall be 5" in diameter with minimum width treads of 1-1/4" and a minimum load capacity of 250 pounds per caster. Furnish with wheel brakes and Component Hardware C60-Series, or approved equal, rubber donut bumpers.

E. All hardware shall be identifiable for manufacturer.

F. Stainless Steel Wall covering

- Where required, wall covering shall be of 20 Ga. stainless steel affixed to wall with heavy-duty, heat resistant adhesive. Covering shall be fabricated from maximum width sheets for minimum amount of vertical joints and shall be sealed with Component Hardware model M90-1012 NSF listed aluminum colored silicone sealant, or approved equal, and capped with one inch wide "T" molding, without exposed screws or fasteners. Continuous layer of adhesive to be applied with a 1/4" notch trowel. Where wall flashing includes capping of wall ends, capping shall be fabricated from 16 Ga. stainless steel. Extend from unfinished floor, behind cove base to 6" above finished ceiling or as specified.

2.9 EQUIPMENT CONSTRUCTION AND STANDARDS:

Where initials SS are used, they refer to "Stainless Steel;" CP refers to "Chrome Plated;" NIC refers to "Not In Contract;" GI refers to "Galvanized Iron;" and FD refers to "Floor Drain."

2.10 REFRIGERATORS AND REFRIGERATION UNITS:

A. All refrigerated equipment, refrigerators and freezers, shall be started and adjusted to maintain required temperatures, charged with approved CFC free refrigerant, DuPont 134A, or 404A as required. All refrigerators are to meet current NSF7 standard and be labeled as such.

B. All reach-in refrigerators, freezers, hot food warmers, etc., to have keyed-alike locks with additional locking hasps. CONTRACTOR RESPONSIBLE FOR THIS WORK must request this at time of placing order to avoid correction at a later date at CONTRACTOR RESPONSIBLE FOR THIS WORK's expense.

C. CONTRACTOR RESPONSIBLE FOR THIS WORK is to provide one year's free service for all types of refrigerators and refrigeration equipment. Free service furnished for period of guarantee on all compressors, unit coolers, controls, etc., same to include adjustments and repairs, irrespective of cause, whether mechanical, operational or manufacturing - at no additional cost to Owner. Five (5) year warranty provided on all compressors.

D. Undercounted Refrigerators

1. Outer casing shall be constructed of 18 Ga. steel, inner lines shall be of 20 Ga. stainless steel with #2B finish, unless shown otherwise.

2. Refrigerator shall be fully insulated with 2" minimum thickness of urethane or Styrofoam between outer casing and inner liner at top, bottom and sides, including doors.

3. Entire perimeter of door opening shall be faced with 1/8" black Bakelite thermal breaker strip approximately the width of mullion. Breaker strip at doorsill shall be faced with 16 Ga. stainless steel.

4. Door shall be constructed with 18 Ga. stainless steel outer casing and 20 Ga. stainless steel, #2B finish, inner lining, unless shown otherwise, molded gray vinyl latex door gasket shall be attached to perimeter of doors with concealed fasteners.

5. Drawer fronts shall be of same materials as specified for doors. Insulation shall be of same material as used in refrigerator walls and shall be a minimum of 1" in thickness. Drawers shall be provided with Component Hardware model P60-1010, or approved equal, flush style pulls.

6. All refrigerators shall be furnished with one 40 watt incandescent appliance light bulb and socket for each mullion connected in parallel with automatic door switch mounted in each door opening; full set of Component Hardware/Keil T21 Series stainless steel removable pilasters and Component Hardware/Keil T30 Series stainless steel shelf clips, or approved equal, for each wire shelf per compartment; one Component Hardware/Keil T19-6142, or equal, exterior reading, flush mounted dial type thermometer with-40 to +60 degree F. Range.

7. All electrical wiring, including service for built-in evaporator coil fan shall be run in flexible conduit within refrigerator walls and shall terminate in external J-box mounted on end or rear of refrigerator cabinet in an accessible location for final connection.

8. Hardware for doors shall be Component Hardware/Keil R42-288X Series self-closing, edgemount hinge and Component Hardware/Keil R25 Series cylinder-locking, magnetic latch, or approved equal, (all locks keyed alike).

9. Where cutouts in refrigerator tops are specified shown on detailed drawings, raw edges of cut metal and insulation shall be covered with stainless steel sleeve. Counter top shall be turned down into opening to overlap sleeve with thermal barrier installed between. A stainless steel expanded metal guard shall be furnished for the full length and width of opening, with sides attached to underside of refrigerator interior, with closed bottom of guard located 6-1/2 inches below counter top.

E. Remote refrigeration system rack systems are to include but are not limited to the following items:

1. This complete operation system to have a factory mounted and pre-wired control panel integral with the rack. Panel to have main disconnect switch, compressor circuit breakers, fuses, contactors and time clocks wired for single point connection.

2. System to include compressors, evaporators, refrigerant and refrigeration piping, controls and accessories required to complete the system.

2.11 LEGS AND CROSSRAILS:

A. 1-5/8 O.D. 14 Ga. stainless steel tubular-type with stainless steel bullet shaped feet having minimum vertical adjustment of 1-1/2" without showing threading or adjusting bolts. Feet fully enclosed on bottom. Adjustment of feet by means of a threaded shank attached to foot and screwed into a properly secured threaded member inside of leg. Construction of leg such that it shall fit over shank of foot so no liquid or other material can work their way into legs or foot.

B. Tops of legs attached to Component Hardware model A18-0206-C enclosed conical gussets of 14 Ga. stainless steel. Gussets welded to 14 Ga. stainless steel 4" X 1" channels to underside on which they appear, coved finish. Crossrails 1-1/2" O.D. 14 Ga. stainless steel coped and welded to legs approximately 10" A.F.F. or as specified.

2.12 DRAINBOARDS:

A. 14 Ga. stainless steel full width of sink carried up approximately 12" at back and where adjacent to wall and finished same as heretofore described for back of sink, and having 3" high curbing at front and ends not adjacent to walls and finished with integral 1-1/2" diameter 180 degree roll, unless otherwise specified.

B. Drainboards continuously welded to sinks.

C. Drainboards 30" long or less shall have 1-1/2" 16 Ga. stainless steel tubular braces secured to underside near front and welded to stainless steel gusset at leg anchor. All others to have legs and cross bracing with full length and width undershelf as specified for tables.

PART 2 - PRODUCTS (CONTINUED)

2.13 TABLES WITH STAINLESS STEEL TOPS:

A. Tops of 14 Ga. stainless steel 1 piece construction with all edges turned down into 2" integral 180-degree roll with all corners rounded to 2" radius forming a bullnosed corner. Corner welded and polished smooth.

B. Table tops thoroughly cross-braced with 4" X 1" stainless steel channel stiffeners 14 Ga. welded to underside. All cross braces spaced not over 24" o.c.

C. Tabletops adjoining walls shall have back splash carried up approximately 6" and returned 1", down 1" at top and ends. Intersections of table top and raised edge coved to 3/4" radius.

D. 1-5/8" OD tubular frame construction with fixed shelf at 10" AFF on 1" tubular cross rail as specified.

2.14 TABLES WITH BAKER TOPS

A. Top to be constructed of 3" thick maple hard wood with 4" x 1" stainless steel channel sub frame connected to base.

B. 1-5/8" OD tubular frame construction with fixed shelf at 10" AFF on 4" x 1" stainless steel channel sub frame fully welded to legs.

C. Backsplash to be 6" high x 1" thick maple hard wood with 3/4 cove at table juncture where required on all tables butted to walls.

2.15 TABLES WITH BUTCHER TOPS

A. Top to be constructed of 1-1/2" thick white poly cutting surface with 4" x 1" stainless steel channel sub frame connected to base

B. 1-5/8"OD tubular frame construction with fixed shelf at 10" AFF on 4" x 1" stainless steel channel sub frame fully welded to legs.

C. Back splash to be 6" high x 1" deep stainless steel with 3/4" cove and 3" stainless steel flat surface.

D. Top to be removable for cleaning.

2.16 OVERSHELF:

A. 16 Ga. polished stainless steel with all edges turned down and finished in a 1-1/2" diameter 180-degree roll - corners bullnosed, welded one piece construction.

B. Shelves supported by 1-1/4" O.D. 14 Ga. stainless steel tubular uprights, tapered at top and flared at bottom, secured to top with Component Hardware J57-7125 expanding fastener system, or approved equal. Uprights spaced approximately 42" on center not to interfere with tabletop proper. When uprights are located in other areas in addition to each end of table then they shall be cantilevered.

2.17 UNDERSHELVES:

16 Ga. polished stainless steel full length and width of table with all edges turned down into 2" wide channel. In way of table legs, shelf notched to fit with Component Hardware A37 Series undershelf brackets in a neat, workmanlike manner to eliminate unsanitary crevices. Undershelves reinforced on underside with welded 4" X 1" longitudinal channels of 14 Ga. stainless steel. All signs of welding on shelf surface to be removed.

2.18 CAFETERIA COUNTER:

A. Of size and shape as shown. Top of 14 Ga. polished stainless steel rolled down in a 2" diameter 180-degree roll on all exposed edges with corners bullnosed, welded. Top secured to counter base by means of concealed stainless steel studs, nuts and washers. Angle frame under top sheathed with sound deadening material.

B. Base constructed with interior framing of 1-1/2" X 1-1/2" X 1/8" stainless steel angle with all joints welded.

C. Angle framework concealed on the interior with 18 Ga. polished stainless steel sheathing. Exterior facing of base cabinet and ends to have sheathing of Formica paneling laminated to 3/4" thick solid core, exterior grade marine plywood, color of paneling selected by Architect. Each panel approximately 4'0" long, full height of counter and splined hairline joints. Panels and trim secured to interior framing by means of concealed welded studs, nuts and washers.

D. Interior of all available space provided with bottom and intermediate shelf of 16 Ga. stainless steel turned up approximately 2" at rear and ends, and down 1-1/2" in 1/2" channel shape at front.

E. Mounted on Component Hardware A48 Series 6" high Stainless steel adjustable legs or casters as specified.

F. All openings in top flanged downward approximately 1" around their entire perimeter. Top cut out for and provided with equipment as hereafter specified.

2.19 TRAY SLIDE:

A. Of size, shape, hereinafter specified and/or shown on drawings, installed where shown, 1'-0" wide, 1" O.D. tubular stainless steel construction with 4 tubes. Provide with Component Hardware J19-4964 8-Ga. stainless steel four-rail brackets @ 36" on center or less.

B. In general, unit mounted on Component Hardware J19-4964 8-Ga. stainless steel, four-rail ornamental tray slide brackets, or equal, secured to front trim in a concealed manner with welded concealed studs.

2.20 DRAWERS:

18 Ga. stainless steel with 14 Ga. stainless steel facing. Front of 314 Ga. polished stainless steel and extended on both sides of drawer body to conceal slides and shall have corners welded. Front provided with recessed stainless steel drawer pulls; 18 Ga. stainless steel die-formed, easily removable, drawer bowl, lock. Vertical and horizontal corners rounded.

2.21 COUNTER AND CABINETS WITH SEMI-ENCLOSED BASE:

A. Top of 14 Ga. polished stainless steel finished 1/2" above working level with 2" diameter 180 degree roll, bullnosed corners on all exposed sides. Where adjacent to wall, top carried up approximately 12" (or as specified hereinafter and shown) and returned 1" at top and ends towards wall with corners welded forming a continuous unit. Top fastened to cabinet by means of welded and concealed studs.

B. Cabinet below top to have 18 Ga. stainless steel enclosure. Front stiles of cabinet channel shaped. This channel fully enclosed inside of cabinet. Top reinforced by means of horizontal framework of stainless steel 1-1/2" X 1-1/2" X 1/2" angle with cross braces not more than 18" o.c. Framework of all welded construction and intermediate shelves in cabinet of 16 Ga. stainless steel turned up on all sides to eliminate crevices at shelf surface. Front edge of shelf channel shaped. Shelf surface reinforced by means of 16 Ga. stainless steel channel stiffeners spaced on not more than 24" o.c. Mounted on Component Hardware A48 Series 6" stainless steel adjustable legs, or as herein before shown and specified.

2.22 VENTING OVER DISHWASHER:

A. Hood to feature NSF construction. Body to be 18 Ga. stainless steel, type 304 18/8, and polished to a #4 satin finish with #8 highlighting. All external seams will be continuously welded and ground smooth so that the hood will be moisture proof. Integral condensate gutter included around entire inside perimeter of bottom of hood with a stainless steel drain spud welded in.

B. Pantleg or Straight Extensions. Ducting to feature NSF construction. Body to be 18 GA stainless steel, type 304 18/8, and polished to a #4 satin finish with #6 highlighting. All external seams will be continuously welded and ground smooth so that the hood will be moisture proof. Duct connection to be 6" above finished ceiling. CONTRACTOR RESPONSIBLE FOR THIS WORK to provide stainless steel escutcheon at ceiling penetration.

PART 2 - PRODUCTS (CONTINUED)

2.23 FIRE PROTECTION SYSTEM:

CONTRACTOR RESPONSIBLE FOR THIS WORK to furnish drawings of hood fire protection system, signed and sealed by an engineer licensed in the state of this installation. Furnish said drawings in a timely manner to state or local authorities as required for review. This shall apply where new or existing/modified fire suppression systems are indicated.

2.24 EXHAUST VENTILATION:

A. Each ventilator to be a high velocity centrifugal grease extractor with a single air inlet opening above, adjacent and parallel to the top of the cooking equipment being ventilated.

B. Ventilator to contain one or more removable "extractor inserts" with a grease extraction efficiency not less than of 93% when operated at design conditions. Extractor inserts to be constructed of stainless steel and contain full-length self-draining baffles. Extractor inserts to be easily removable with the use of an extractor removal tool or by hand, for periodic cleaning. Ventilator to be provided with two (2) extractor tools if required. The grease-collecting gutter at the bottom of the extractor housing to slope to one end to a removable stainless steel grease-collecting container.

C. CONTRACTOR RESPONSIBLE FOR THIS WORK is to furnish drawings of hood and hood fire protection system, signed and sealed by an engineer licensed in the state of this installation. Furnish said drawings in a timely manner to state or local authorities as required for review.

D. Ventilator to operate at air quantities as shown on plans. Thermostatic damper at duct collar. Upon activation at 350 degrees F, the damper shall close in the direction of airflow. Thermostatic is to be normally closed.

E. Ventilators shall be furnished as shown on drawing and described in the Equipment Specification Book Supplemental Information area.

F. Ventilator to be equipped with hanging brackets at front and rear, for suspending from overhead structure. Hoods are to be hung as per local code requirements with regard to seismic zone.

G. The ventilator shall be all stainless steel construction, not less than 18 Ga., type 304. All exposed surfaces shall be number 4 finish.

H. Ventilator to be equipped with recessed LED lighting fixtures complete with LED lamps rated to 176 degrees F (80 degrees C) for cooking hood applications. Light fixtures to be factory pre-wired to a single connection point. CONTRACTOR RESPONSIBLE FOR THIS WORK to provide required tubes or bulbs as specified.

I. Ventilator to be U.L. Listed and recognized by BOCA, ICBO, NSF and be in accordance with all recommendations of NFPA Standard 96. Ventilator to meet all local code requirements.

2.25 HOT BAIN MARIE

A. Constructed by fabrication.

B. Interior to be 14 Ga. stainless steel plate. Corners to be rounded 3/4" radius, ground smooth and polished, fully welded to 1" turned-down counter top. Bottom pitched to 1" drain connection with ball valve.

C. Bottom fitted with 16 Ga. stainless steel sectional false bottom, sections not to exceed 15", fitted with 3/4" holes spaced 2" O.C. False bottom to be 1-1/2" high with slanted channel edges.

D. Bain Marie to have auto fill port located 4" below top of counter with 1" overflow at 2" below counter top provided with 1/2" back flow preventer. Auto fill to be electronic level sensor style. 120 volt, 1ph power with 1/2" solenoid valve.

E. Steam heated units to be equipped with Robert Shaw thermostatic controls (includes probe, well, steam control valve, etc. as required).

F. Electrically heated units to be equipped with Hatco bain marie heater of size indicated on drawings. Provided with low-water cut-off, thermostatic control and pilot light.

G. Units to be of size, shape, and depth as shown on plan. Sized to accommodate full complement of standard sized Seco drop-in pans. CONTRACTOR RESPONSIBLE FOR THIS WORK to weld 1/8" thick stainless steel adapter bar tabs to inside of counter top turn-down to support adapter bars as supplied by CONTRACTOR RESPONSIBLE FOR THIS WORK.

H. Each individual panel shall have a flame spread rating of 25 or less, and have a smoke All four exterior sides and bottom to be insulated with 1-1/2" thick fiberglass and clad with 2- Ga. stainless steel

I. CONTRACTOR RESPONSIBLE FOR THIS WORK to install finished bain marie into counter top. CONTRACTOR RESPONSIBLE FOR THIS WORK to inter-connect finished bain marie, into fill, thermostatic controls etc. As required and to coordinate installation of bain marie with custom fabricated counter.

J. For direct steam heated bain marie and/or serving counter, provide following:

Fully welded stainless steel 1" pipe with 4 pass layout.

2.26 ICE BINS AND COLD PANS

A. Inner lining shall be constructed of 18-Ga. stainless steel, and outer casing shall be of 18-Ga. stainless steel, unless shown otherwise.

B. All ice bins and cold pans shall be fully insulated with 2-inch minimum thickness of urethane or Styrofoam between outer casing and inner liner.

C. ice bins and cold pans shall be isolated from tops of supporting fixtures by means of thermal barrier.

D. Furnish 16-Ga. stainless steel perforated false bottom raised one inch above bin or pan bottom.

E. Furnish one-inch drain and extend to floor sink, plumber to provide.

2.27 WALK-IN COOLERS AND FREEZERS

A. Acceptable manufacturers are as specified.

B. General

- Walk-In Coolers and Freezers shall be designed with modular panels to facilitate easy assembly and disassembly for relocation and for the expansion of the coolers or freezers at a later date. The prefabricated, sectionally constructed panels shall be metal clad.

C. Prefabricated Panel Construction

1. The panels shall consist of interior and exterior metal skins precisely formed with steel dies and roll-form equipment and thoroughly checked with gauge for uniformity and accuracy. The insulation shall be "Foamed-In Place" rigid urethane and when completely heat cured, shall bind tenaciously to the metal skins and form a ridged four (4) inch thick insulated panel. The urethane insulation must also adhere to the cam-action locking devices. All panels shall have 100% "Foamed-In Place" urethane insulation and have no internal wood, metal or high-density urethane structural members. To insure that all joints are airtight and vapor proof, all panel edges must have a "Foamed-In Place" double tongue and groove edge on all sides which are of the same density as the rest of the panel. A flexible vinyl gasket, which is also "Foamed-In Place" shall extend around the interior and exterior perimeter of each male edge. This gasket shall not be glued or stapled. Gaskets shall be resistant to damage from oil, grease, water, detergents and sunlight, and must be NSF approved and shall be flame retardant.

2. The use of Refrigerant 12 as blowing agent is specifically prohibited.

3. Wall panels shall be made in 11-1/2", 23" and 46" widths.

4. Door panels shall be in either a 46", 57-1/2" or 69" wide panel.

5. Corner panels shall measure either 11-1/2" x 11-1/2", 11-1/2" x 23-1/2", 23-1/2" x 23-1/2" The corners shall be a precise 90 degree angle to assure maximum strength and perfect alignment.

6. Floor panels when specified shall measure 11-1/2", 23", 35", 46" or 46-1/2" wide. The floor sections shall be made to support a uniformly distributed load up to and including 600 lbs. per square foot. And to be constructed as to meet labor NSF requirements.

PART 2 - PRODUCTS (CONTINUED)

7. When a floor is not specified the walk-in shall be supplied with an extruded PVC insulated floor screed. This screed shall match the double tongue and groove design of the wall panels and must cam lock securely. Mitered corners shall be thermally fused and polished. Screeds shall be easily anchored to the building floor without the use of exposed fasteners.

8. All panels must be interchangeable for fast and easy installation.

D. Finish

1. The wall panels shall be .040 smooth white aluminum on interior and 22-Ga. stainless steel, No. 4 finish type 304 exterior walls. (Where exposed; stucco aluminum along wall).

2. The floor when specified shall have 14- Ga. stainless steel on the interior and on the exterior.

3. The door shall be stainless steel with 48" high diamond plate kick panel on exterior and interior.

E. Panel Locking Devices

1. Cam-action locking devices shall be accurately and precisely positioned in the panels to assure a positive joint. Where wall panels are jointed together there shall be a minimum of three (3) locking devices. These locking devices shall consist of a cam-action rotating locking arm in the tongue edge. This locking arm shall engage a steel rod, which is firmly anchored, in the groove edge. This action will draw all tongue and groove joints firmly and tightly together. Each section of the locking device shall have sufficient surface to assure permanent and rigid anchoring. The locking device shall be bonded in the urethane foam without need of additional anchorage arrangements. Both the locking arm and the steel rod shall be housed in steel pockets and "Foamed-In Place". The steel pockets shall have a flange on each side to give additional rigidity.

2. All locking of sections shall be performed from the interior by means of a hex wrench, which is furnished with the cooler or freezer. The wrench holes shall be recessed and covered with a stainless steel plug button. The plug buttons

F. Insulation

1. Insulation shall be rigid urethane "Foamed-In Place". The thermal conductivity factor (K) shall not exceed 0.118 BTU per hour, per square foot, per degree Fahrenheit, per inch. Overall coefficient of heat transfer (U-factor) shall not be more than .029 for 4" walls. The R-Factor shall have a value of 34. Insulation shall have 97% closed cell structure and average in-place density of 2.3 lbs. per cubic foot.

2. The insulation must retain dimensional stability in an operating temperature range of -40 degrees F.(-40.OC) to 250 degrees F. dry heat (121.2C).

G. Walk-In Doors

1. Manufacturer's standard door shall be flush mounted. Both door section and door leaf shall be of similar construction as wall panels. Doors shall be of the size and swing as shown on the drawings; all walk in doors are to be 79" in height.

2. A heavy duty 14 Ga. steel C channel of ADDISON POWER H BRACE style construction shall be "Foamed-In Place" around the entire door opening to secure hardware and prevent racking and warping. This steel structure when used in conjunction with the FRP doorjamb shall form a rigid frame that eliminates thermal transfer from the exterior to the interior of the panel thus reducing the requirement for additional anti-condensate heaters.

3. Each door leaf shall consist of a heavy 4" wide, .250" thick, thermally fused and polished PVC perimeter into which the interior and exterior metal skins are secured and shall create a thermal break between metal facings. In addition, the PVC frame shall include a RIBBED channel around the inside perimeter into which the magnetic gasket shall mate and be firmly held. Each door leaf must also include interior 14 Ga. steel C channels across the entire face of the door at hinge and latch stress points. Two additional are to be "Foamed-In-Place" behind the interior face to accept protector plates when required and to increase strength and rigidity. Interior steel plates for securing additional hardware (i.e., foot treadles, door closures, etc.) shall be a standard part of the door construction. Securing hardware into wood blocks will not be accepted.

4. The door sections shall have a frame, which is made of a pultruded FRP (Fiberglass Reinforced Plastic) material that provides both strength and durability. This FRP frame shall have a channel molded into it, which will accept the anti-sweat heater and allow easy replacement of the heater.

5. Each freezer door shall have a single anti-condensate heater and shall be concealed behind the stainless steel edge of the doorjamb on all sides to prevent condensation and frost formation. This heater shall be easily accessible for replacement or service. No heater shall be required around the perimeter of the door leaf. Applications of 35 degrees F. And above shall not require a door heater unless specified.

6. A solar thermometer shall be mounted on the door panel. It shall provide temperature readings in a minimum range of -40 degrees F. To +99 degrees F. And be accurate to + or - 1 degree F.

7. When a threshold is required it shall be made of 12- Ga. stainless steel and must be an integral part of the door section. The threshold must be installed by the factory and shall be of a universal design, which will allow the door section to be moved from one location to another without any preparation by installers.

H. Door Hardware

1. Component Hardware/Keil W60 Series door hinges shall be of cam-lift design and shall be heavy-duty chrome plated with steel pins and nylon bushings. Hinges shall have a minimum 9" strap and shall be installed in sufficient numbers to carry twice the weight of the door. Provide three (3) door hinges.

2. Component Hardware/Keil W38 Series door latches with W28 Series Inside Safety Releases shall be constructed of similar materials and finish as the door hinge. The latch shall be designed to open the door easily. The inside safety release features shall comply with OSHA standards.

I. Gaskets For Walk-In Doors

- A vinyl gasket with a magnetic core using Christmas Tree type construction shall mate with the top edge and along both sides of the door. The magnetic force of the gasket shall be ample enough to keep the door in a closed position and form a tight seal. The bottom edge of the door shall contain a flexible double wiper gasket of black, FDA approved, 50 durometer, EPDM extrusion.

J. Lighting

1. Each entrance door shall be provided with an LED vapor proof light fixture complete with LED lamp with integral motion sensor on the interior of the door section. The light shall have a coated glass shatterproof globe. A neon pilot light and toggle switch shall be flush mounted on the exterior of the door section and shall have a stainless steel cover. The door panel and door leaf shall be U.L. approved in its entirety, including all mounted accessories.

2. For safety reasons the vapor proof incandescent light shall be capable of accepting up to a 100-watt appliance bulb (not furnished by manufacturer).

3. The vapor proof light shall have a dual intensity attenuator, which shall dim the 100-watt bulb to 16 watts when the light switch is placed in the off position. This will provide a continuous dim glow of light inside the walk-in.

4. One additional LED vapor proof light fixture complete with LED lamp with integral motion sensor shall be provided for be provided for every 100 sq. feet of floor space per box. This will always be in addition to the light specified in J.1. Additional lights shall be furnished to the electrical contractor for this installation as part of the electrical work for this project.

K. Housekeeping And Safety Procedure

- Each door panel shall have a metal housekeeping and safety release procedure placard and shall be attached with pop-rivets to the metal skin of the door leaf. This placard must be in a highly visible location.

L. Installation And Maintenance Instructions

- A complete set of instructions covering both the maintenance and the installation of the cooler or freezer shall be provided.

M. NSF Approval

- Construction shall be of a design approved by the National Sanitation Foundation and shall carry the NSF Label of Approval mounted on each door section.

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INTERMOUNTAIN HEALTHCARE
DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

Project Status
Issue Date

△	DATE	REVISION
1	12/2/2019	PERMIT REVIEW SET

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

GENERAL FOODSERVICE SPECIFICATIONS

FS-0.2

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

114000 GENERAL FOOD SERVICE SPECS (CONT)

PART 2 - PRODUCTS (CONTINUED)

N. U.L. Electric approval

- All door sections shall be wired electrically in such a manner and design so as to be approved by Underwriters Laboratories and each door section shall carry the U.L. Listing Mark.

O. 25 Flame Spread Classified**

- Each individual panel shall have a flame spread rating of 25 or less, and have a smoke development of 400 or less. Each section shall have affixed to it a label stating the above ratings. (Class 1 composite panel). Approval of core rated material only, does not constitute a finished product and therefore does not satisfy the requirements of the various state and local building codes. **This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions. (See U.L. Classified Building Materials Index)

P. Toxicity

- Upon exposure to fire the material shall not produce products of decomposition or combustion that are more toxic than those given off by wood or paper when decomposing or burning under comparable conditions.

Q. Ten Year Panel Warranty

1. The manufacturer shall warrant that the cooler or freezer sections shall be free from defects in material and workmanship under normal use and service and shall be obligated to repair or replace F.O.B., any section which proves to be defective within the period of ten years from the date of original shipment. This warranty shall not include labor or freight.
2. This warranty shall not apply to equipment, which in the CONSULTANT'S opinion, has been subjected to misuse, misapplied, or improperly installed.

R. Ceiling Panel Support Systems

1. When the dimensions of an insulated room are such that a single span top panel is not applicable, it must be supported using an interior or exterior beam or must be supported by all thread rods attached to the building superstructure. Regardless of which method is used all beams and "C" channels shall be aluminum. Wood and steel structures, which cause added maintenance requirements, shall not be acceptable.
2. Foodservice contractor shall be responsible for the complete installation of the walk-in box structure, except as noted on design drawing.

2.28 BEER DISPENSING TOWER/SYSTEM (if indicated on the plan and in the Equipment Schedule)

Draft Beer System sized as per manufacturer's requirements to include all necessary components for a complete system.

2.29 SODA/JUICE SYSTEMS (if indicated on the plan and in the Equipment Schedule)

Soda/ice juice dispensers are to be furnished by owner's vendor or as described in contract documents.

2.30 OWNER'S VENDOR SUPPLIED ITEMS (i.e. Coffee, tea, hand wash soap and towel dispensers, etc.)

CONTRACTOR RESPONSIBLE FOR THIS WORK is to fully coordinate all owner furnished items, verify utility requirements and indicate on shop drawings and utility rough-ins, as required.

2.31 UTILITY DISTRIBUTION SYSTEM (UDS)

Stainless steel, self-contained Utility Distribution System (UDS) of size and shape as shown on the kitchen layout drawings. The system shall be completely pre-wired and pre-piped to a single connection point for electrical, gas, cold water, hot water, steam supply and condensate return as required by the food equipment specified. All plumbing and electrical services shall include a minimum of 25 over-capacity for future changes in food equipment.

Code Compliance:

The UDS shall be U.L. listed under the category "Commercial Appliance Outlet Center" and manufactured in accordance with the National Electrical Code (NEC), National Electrical Manufacturers Association (NEMA), National Fire Protection Association (NFPA) pamphlet number 96 & 54, Uniform Plumbing Code (UPC), American Society of Mechanical Engineers (ASME), National Sanitation Foundation (NSF), and Occupational Safety and Health Administration (OSHA) using only U.L. listed, Bureau of Mines rated, AGA certified and CGA certified components.

Services:

The UDS shall be completely pre-wired and pre-plumbed to one final connection point for the following services:

2.32 LIQUOR SYSTEM (if indicated on the plan and in the Equipment Schedule)

A. Codes

1. Tubing shall comply with applicable FDA and NSF codes and regulations for the product it carries.
2. Tubing shall be new, FDA approved, virgin material, i.e. polyethylene, polypropylene-lined, polyethylene Teflon line or Mylar coated polyethylene as selected by the Owner. Contractor to submit samples for approval before ordering and installing tubing.

B. Tubing and fittings

1. Provide all tubing, fittings, valves and insulation for a complete and operating system.
2. Select flex tubing sized to accommodate types and numbers of flavors for application and location.
3. Tubing lengths are to be maximum uninterrupted by joints connectors or splices except as necessary as required by the plan and distribution of the product.
4. Clean, pressure test and repair leaks prior to the introduction of product.
5. Fittings are to be stainless steel or brass as required by application.
6. Fittings are to be located in accessible locations for repair and service.
7. Where possible, system components shall be factory assembled and "wet" and pressure checked.
8. Select tubing and fittings to carry product without taste distortion with approval of the Owner.

PART 3 - EXECUTION

3.1 UTILITIES, STORAGE AND SPECIAL HANDLING

A. General Contractor shall provide and pay for the temporary power and light, openings and storage space to permit scheduled delivery of equipment. See Section 01500 for further clarification.

B. The CONTRACTOR RESPONSIBLE FOR THIS WORK shall verify door openings, passages and conditions at the building. All special handling equipment charges shall be paid by the CONTRACTOR RESPONSIBLE FOR THIS WORK.

3.2 CONDITIONS AND PREPARATION

A. Verify all pertinent dimensions of the building and examine conditions affecting proper execution of this section. Evaluate access to various areas for moving in of equipment and coordinate with GC.

B. Verify water pressure requirements and coordinate required reducing valve with plumbing contractor. Reducing valve to be furnished and installed by plumbing contractor.

C. Inspect flooring and raised concrete bases, wall finishes; verify existence of required mechanical and electrical rough-ins; check painting, ceiling installation and all kitchen equipment.

D. Coordinate with project superintendent for the proper sequence for installation of equipment and wall finish.

E. Sweep clean all floor areas and tops of raised concrete bases before setting equipment in place; remove any spillage or foreign matter.

3.3 EQUIPMENT CONNECTIONS

A. Equipment shall be complete with connection terminals as standardized by equipment manufacturers, except where specified otherwise, for others to make plumbing, electrical ventilation and refrigeration connections.

B. Indirect water lines for buy-out and fabricated items shall be furnished and extended to drain locations by the PC. Indirect waste lines shall be hard copper tubing, covered with insulation when extended from ice storage bins, ice bins or other equipment where "sweating" may occur.

C. All exposed utility lines, valves, gauges, tubing and conduit, including mounting brackets, shall be chrome plated, stainless steel or sheathed in stainless steel.

3.4 TRIMMING AND SEALING EQUIPMENT

A. All gaps, joints and seams between fixtures and walls, ceiling and floor, shall be completely closed and sealed with stainless steel trim and strips, welding, Component Hardware model M90-1012 NSF listed aluminum colored silicone sealant or equivalent) or epoxy sealant.

1. Sealant is not permissible in joints or seams, which exceed 1/4" in width.
2. Wood fixtures shall be scribed to exactly fit floor and wall surfaces and shall not be shimmed. Tops are to be installed level and securely fastened to bases.

B. All hollow section shall be sealed.

C. All exposed ends of backsplashes shall be capped with stainless steel, welded, ground smooth and polished.

D. Fixtures resting on concrete bases shall be set into a mastic bed to eliminate crevices between fixtures and bases and caulked after installation has been completed.

E. Where applicable, ends of all fixtures, splash backs and shelves shall be finished flush to walls or adjoining fixtures.

3.5 REFRIGERATION INSTALLATION AND PIPING

A. The CONTRACTOR RESPONSIBLE FOR THIS WORK is responsible for the complete installation of all remote refrigeration components to include, but not limited to piping, insulation, control wiring, start-up, service, as required for a complete and operational system.

B. All copper tubing to be refrigerant grade type "L". Joints for all hard copper tubing shall be sweat type fittings (mechanical bend is not acceptable). Suction lines to be insulated with 1/2" wall plastic insulation for coolers and 3/4" wall insulation for freezers.

C. All suction lines with 15 ft. or more vertical rise are to be trapped for proper oil return.

D. For steel to copper connections, use silver solder. For copper-to-copper connections, use SIL-FDS. (Soft solder shall not be used for refrigerant piping).

E. All piping shall be pressure tested with nitrogen at 300 PSI.

F. All completed refrigeration systems must be evacuated to 500 microns or less with vacuum pump.

G. Furnish and install a 6-watt per 1 ft, 230V heater tape on walk-in freezer drains.

H. All coils supplied by others must have expansion valves compatible with the refrigerant used on each system.

I. All field-piping supports are to have plastic insulation between clamps and piping, no copper to steel contact permitted.

J. Refrigerant to be 134A or 404A or equal as required by environmental laws.

3.6 CLEANING

A. After completion of installation, and completion of other major work in foodservices areas, remove protective coverings, if any, and clean foodservice equipment, internally and externally. Restore exposed and semi-exposed finishes to remove abrasions and other damages; polish exposed-metal surfaces and touch-up painted surfaces. Replace work, which cannot be successfully restored.

B. Prior to date of substantial completion on foodservice equipment work, buff exposed stainless steel finishes lightly, using power buffer and polishing rouge or grit of No. 400 or finer.

3.7 ADJUSTMENT OF EQUIPMENT AND DEMONSTRATION

A. Turn on all mechanical equipment, test for leaks, poor connections, inadequate or faulty performance and correct if necessary; adjust for proper operation.

B. All thermostatically controlled equipment with automatic features shall be operated for a sufficient length of time to verify controls are functioning as intended.

C. At a time and date, selected by the Owner, the Equipment Contractor shall arrange for a demonstration to be conducted by representatives of the various equipment manufacturers, with Equipment Contractor in attendance.

D. Provide start-up and performance check of all equipment by an authorized manufacturer's representative.

3.8 GUARANTEE

A. CONTRACTOR RESPONSIBLE FOR THIS WORK shall guarantee in writing his workmanship, material and equipment for a period of one year from date of certificate of operation by building department, and shall remedy any defect due to faulty workmanship or materials which may appear within guarantee period. Manufacturer's instruction manuals on equipment, etc., turned over to Architect in duplicate, bound in a folder and marked accordingly.

B. Upon receipt of notice of failure of any part, during the guarantee period, the affected part or parts shall be replaced promptly at no cost to the owner.

C. In the event the replacement of an entire item is required, the Owner shall have the option of full use of the defective equipment until a replacement has been delivered and completely installed.

D. All repairs and replacements shall be made at a time satisfactory to the Owner.

E. Extended warranties shall be provided as specifically specified.

PART 3 - EXECUTION (CONTINUED)

3.9 OPERATING INSTRUCTIONS

A. CONTRACTOR RESPONSIBLE FOR THIS WORK shall leave all items of equipment in good, operating condition, and furnish the services of a "Qualified" competent manufacturer's representative to instruct Owner's employees in proper use and care of equipment. Representative on call for as long a period as is necessary to assure Owner that such instruction is thoroughly understood.

B. CONTRACTOR RESPONSIBLE FOR THIS WORK or his qualified manufacturer's representative, thereafter, shall make all necessary calls during warranty period. CONTRACTOR RESPONSIBLE FOR THIS WORK must include this service in bid.

3.10 FOODSERVICE EQUIPMENT SCHEDULE

See JME Hospitality Foodservice Equipment Schedule FS-SCH (or appropriate drawing).

3.11 KITCHEN EQUIPMENT NOTES

A. In each item of equipment hereinafter specified under the "Schedule of Items of Equipment," these specifications shall only identify each respective item by name and number, as well as list various component parts provided for same.

B. It shall be intended that these respective items and their component parts shall be of material (mounted where applicable) constructed and furnished in strict accordance to that described in the general specifications for these items and integrally constructed where applicable. It shall also be intended that where buy-out (prefabricated) items are specified, same shall be definitely furnished with all the accessories as normally furnished by manufacturer for these items. Also in strict accordance with current manufacturers engineering data sheet for each respective item.

C. All cooking equipment shall have stainless steel exterior (front, sides).

D. All gas-fired equipment to have rear gas connects where applicable.

E. Provide POSI-SET devices at all rear casters of gas fired mobile cooking line equipment located below exhaust hoods.

F. Provide T & S Brass quick disconnect kit assembly with double swivels and cable restrainer cables on all gas fried mobile equipment located below the exhaust hoods. Kit to include, but not limited to, Safe-T-Link Gas Connectors with Swivelink Fittings, Posi-Set, Sure-Link Restraining Cables. Cable restraints are to be attached to wall with wall blocking, CONTRACTOR RESPONSIBLE FOR THIS WORK to coordinate location with GC.

PART 4 - EQUIPMENT SPECIFICATIONS

4.1 Equipment Specification Sheet Listed by Item Number.

See Specification book for itemized equipment specifications.

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INTERMOUNTAIN HEALTHCARE
DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

Project Status
Issue Date

	DATE	REVISION
1	12/20/19	PERMIT REVIEW SET

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

BIDDING DOCUMENTS - NOT FOR CONSTRUCTION

GENERAL FOODSERVICE SPECIFICATIONS

FS-0.3

1 Level 1 - Equipment Plan
1/4" = 1'-0"

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INTERMOUNTAIN HEALTHCARE

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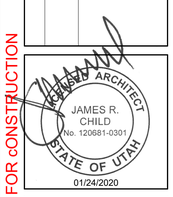

BIDDING DOCUMENTS - NOT FOR cONSTRUCTION

FS- EQUIPMENT PLAN

FS-1

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Specialty Equipment Electrical Schedule

Item #	Qty	Description	FL Amps	Volts	Phase	RI HT	FL Amps 2	Volts 2	Phase 2	RI HT 2	D/P	Electrical Remarks
1-05	2	ROLL-IN REFRIGERATOR	11.4 A	120 V	1	7' - 6"					NEMA 5-15P	
1-07	3	COFFEE/TEA BREWER	11.4 A	120 V	1	2' - 0"					NEMA 5-15P	
1-13	1	ELECTRIC CONVEYOR TOASTERS	24.0 A	208 V	1	4' - 6"					NEMA 6-30P	
1-14	1	JUICE DISPENSER	6.0 A	120 V	1	5' - 0"					NEMA 5-20P	Drop from above, part of chef's tables utility chase.
1-17	1	LOW TEMPERATURE COOK & HOLD OVEN	16.0 A	120 V	1	3' - 0"					NEMA 5-15P	
1-20	2	HEAT ON DEMAND ACTIVATOR	15.0 A	208 V	3	3' - 0"					NEMA L15-20P	Drop from above
1-22	6	AIR CURTAIN REFRIGERATOR	15.4 A	120 V	1	10' - 0"					NEMA 5-20P	Drop from above
1-23	1	UNDERCOUNTER FREZZER	7.0 A	120 V	1	2' - 0"					NEMA 5-15P	Drop from above, part of chef's tables utility chase.
1-28	1	FOOD WARMER, OVERHEAD	15.3 A	208 V	1	3' - 6"					D	3 wire; also available as 120/240V. Remote Control Box RMB-7L
1-31	2	CONVECTED AIR DISH HEATER	15.9 A	208 V	1	2' - 0"					NEMA 6-20P	Drop from above, part of chef's tables utility chase.
1-32	1	HEATED SERVING COUNTER	26.0 A	208 V	1	2' - 0"					NEMA 14-50P	Drop from above, part of chef's tables utility chase.
1-34	2	HIGH SPEED OVEN	20.0 A	208 V	1	2' - 0"					NEMA 6-20P	Drop from above, part of chef's tables utility chase.
1-35	1	SALAD TOP REFRIGERATOR	7.2 A	115 V	1	2' - 0"					5-15P	Drop from above, part of chef's tables utility chase.
1-35A	1	SALAD TOP REFRIGERATOR	7.2 A	115 V	1	2' - 0"					5-15P	Drop from above, part of chef's tables utility chase.
1-36	1	SANDWISH PRESS	26.0 A	208 V	1	2' - 0"					NEMA 6-30P	
1-37	1	CHEF'S COUNTER	40.0 A	208 V	1	10' - 0"					D	DROP FROM ABOVE
1-38	1	REFRIGERATED BASE	8.0 A	120 V	1	2' - 0"					NEMA 5-15P	
1-39	1	SANDWICH UNIT, REFRIGERATED	6.3 A	120 V	1	2' - 0"					NEMA 5-15P	
1-40A	1	REFRIGERATED BASE	8.0 A	120 V	1	2' - 0"					NEMA 5-15P	
1-43	1	CONVECTION OVEN GAS	9.8 A	120 V	1	2' - 0"	9.8 A	120 V	1	4' - 0"	NEMA 5-15P	ONE CONNECTION PER OVEN
1-44	1	KETTLE	5.0 A	120 V	1	2' - 0"					D	
1-46	1	REACH-IN FREEZER	7.2 A	115 V	1	2' - 0"					NEMA 5-15P	
1-47	1	EXHAUST HOOD	10.0 A	120 V	1	10' - 0"					D	FOR LIGHTS
1-49	1	LOW TEMPERATURE HOT HOLDING CABINET & WARMER	6.7 A	120 V	1	2' - 0"					NEMA 5-15P	Drop from above, part of chef's tables utility chase.
1-51	1	BLAST CHILLER / SHOCK FREEZER	5.2 A	208 V	3	8' - 0"					D	DROP FROM ABOVE
1-52	3	CHIT PRINTER	15.0 A	120 V	1	4' - 6"					NEMA 5-15P	Drop from above, part of chef's tables utility chase, w data.
1-55	2	UNDERCOUNTER REFRIGERATOR	3.2 A	115 V	1	2' - 0"					NEMA 5-15P	
1-61	1	OVEN-STEAMER,COMBINATION,GAS ROLL-IN	8.3 A	120 V	1	2' - 0"					D	GC proide data lines, KEC coordinate.
1-62	1	WARMER DRAWER	7.5 A	120 V	1	2' - 0"					NEMA 5-15P	INSTALLS AT ROLLER SECTIONS & CHEF'S COUNTER

ELECTRICAL TYPICAL SCHEDULE ABBREVIATIONS

Abbreviation	Actual name	Comments
FL Amps	Full Load Amps	
Volts	Volts	
Phase	Phase	
RI HT	Rough In Height	
D/P	Direct or Plug Connection	
FL Amps 2 (b)	Full Load Amps Second Connection	Tag Letter (b)
Volts 2 (b)	Volts Second Connection	
Phase 2 (b)	Phase Second Connection	
RI HT 2 (b)	Rough In Height Second Connection	
D/P 2 (b)	Direct or Plug Second Connection	
Data	Data Line Required (Y) Yes if Required	
Data RI HT	Data Line Rough In Height	

1 Level 1 - Equipment Electrical Plan
1/4" = 1'-0"

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INTERMOUNTAIN HEALTHCARE

DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

Project Status Issue Date		
△	DATE	REVISION
1	12/2019	PERMIT REVIEW SET

REGISTERED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

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ELECTRICAL PLAN & SCHEDULE

FS-1.1

Speciality Equipment Plumbing/Mechanical Schedule

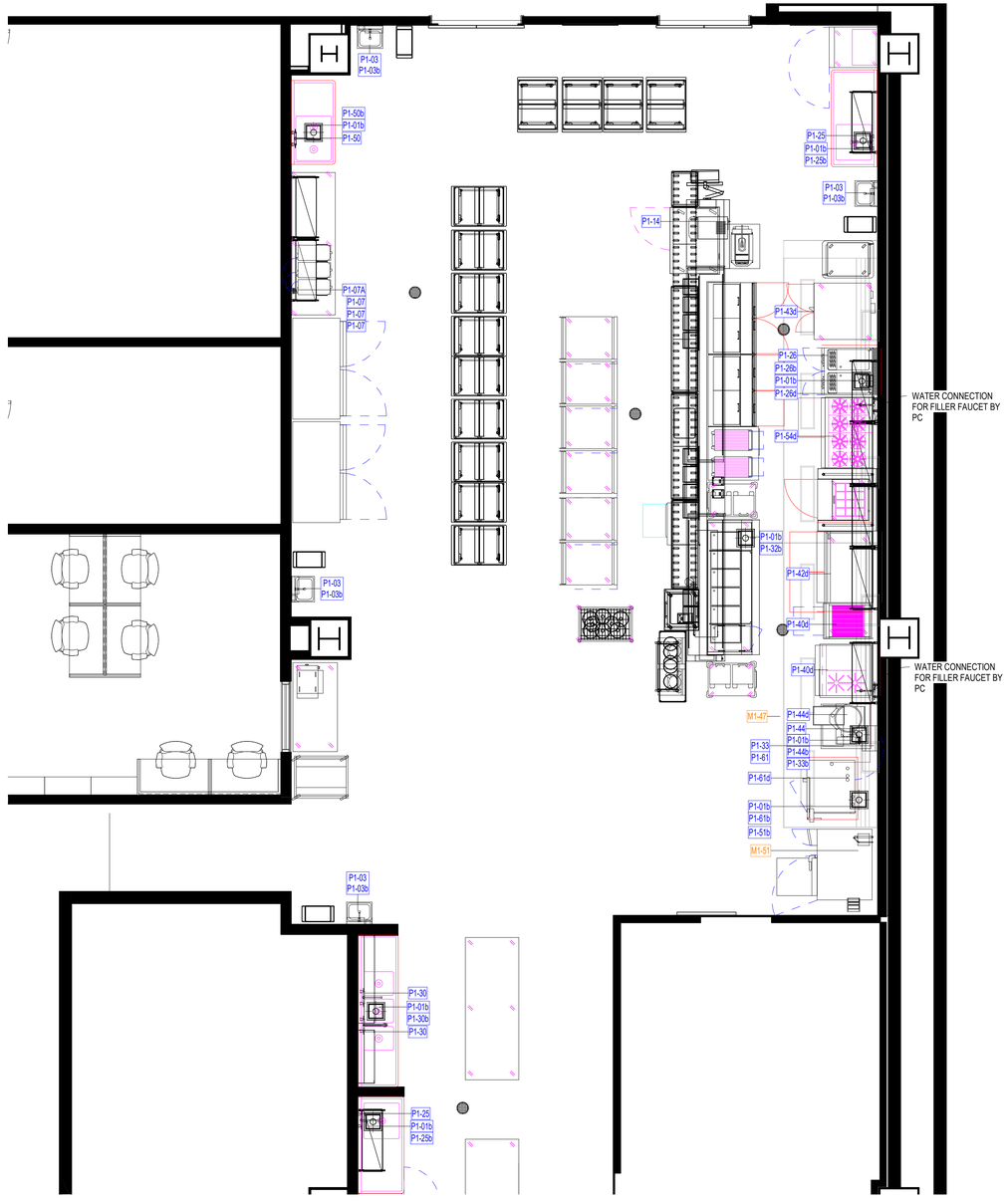
Item #	Qty	Description	HW Size	HW RI HT	CW Size	CW RI HT	HW Size 2	HW RI HT 2	CW Size 2	CW RI HT 2	IDW Size (b)	DW Size (b)	DW RI HT (b)	Gas Size	Gas BTU (d)	Gas RI HT	Gas Size 2	Gas BTU 2 (d)	Gas RI HT 2	Plumbing Remarks	EX W	EX D	S.P.	C.F.M.	EX RI HT	EX Width 2	EX Depth 2	EX S.P. 2	EX CFM 2	EX RI HT 2	Liquid	Suction	R RI HT	Mechanical Remarks
1-01	8	FLOOR SINK																		See plumbing drawings for drain connection size.															
1-02	5	AREA DRAIN																		See plumbing drawings for drain connection size.														
1-03	4	HAND SINK	1/2"	2' - 0"	1/2"	2' - 0"						1 1/2"	2' - 0"																					
1-07	3	COFFEE/TEA BREWER			1/2"	1' - 6"														Interconnect with Item 1-07A.														
1-07A	1	WATER FILTER SYSTEM			1/2"	1' - 6"														Interconnect with Item 1-07.														
1-14	1	JUICE DISPENSER			1/2"	4' - 0"																												
1-25	2	REGALINE SINK, 1-COMPARTMENT, W/ L 36"	1/2"	2' - 0"	1/2"	2' - 0"					2"																							
1-26	1	PASTA COOKER			1/2"	1' - 6"					1 1/2"			3/4"	120000.0 Btu/h	2' - 6"																		
1-30	1	REGALINE SINK, 3-COMP, W/ LR-HAND D 24"	1/2"	2' - 0"	1/2"	2' - 0"	1/2"	2' - 0"	1/2"	2' - 0"	2"																							
1-32	1	HEATED SERVING COUNTER									1"																							
1-33	1	CONSERV 75S RO SYSTEM US			1/2"	2' - 0"					1/2"									Interconnect with Item 1-61														
1-40	1	CHAR-BROILER, GAS												3/4"	72000.0 Btu/h	2' - 6"																		
1-41	1	HEAVY DUTY GAS RANGE												1 1/4"	1000000.0 Btu/h	2' - 6"																		
1-42	1	HEAVY DUTY 48" GRIDDLE												1 1/4"	120000.0 Btu/h	2' - 6"																		
1-43	1	CONVECTION OVEN GAS												1"	60000.0 Btu/h	2' - 6"	1"	60000.0 Btu/h	2' - 6"															
1-44	1	KETTLE	1/2"	2' - 6"	1/2"	2' - 6"								3/4"	53000.0 Btu/h	2' - 6"				Drains into stand, Item 1-45														
1-45	1	EQUIPMENT STAND WITH DRAIN									1 1/2"																							
1-47	1	EXHAUST HOOD																			1' - 4"	10"	0.75 in-wg	2016 CFM	10' - 0"	1' - 6"	10"	1.20 in-wg	2240 CFM	10' - 0"				
1-50	1	FABRICATED NSF SINK, 2-COMP, 24" R DRAINBOARD	1/2"	2' - 0"	1/2"	2' - 0"					2"																							
1-51	1	BLAST CHILLER / SHOCK FREEZER									1 1/2"																				1/2"	1 1/8"	8' - 0"	
1-54	1	HEAVY DUTY GAS RANGE												1"	264000.0 Btu/h	2' - 6"																		
1-61	1	OVEN-STEAMER,COMBINATION,GAS ROLL-IN			1"	8' - 0"					2"			3/4"	136500.0 Btu/h	8' - 0"																		

Plumbing Typical Schedule Abbreviations

Abbreviation	Actual name	Comments
HW size	Hot water Pipe Connection Size	
HW RI HT	Hot Water Rough In Height	
HW Temp	Hot Water Temperature	
HW size 2	Hot Water Second Pipe Connection Size	
HW RI HT 2	Hot Water Rough In Height Second Connection	
CW Size	Cold Water Pipe Connection Size	
CW RI HT	Cold Water Rough In Height	
CW Size 2	Cold Water Pipe Connection Size Second Connection	
CW RI HT 2	Cold Water Rough In Height Second Connection	
IDW Size (b)	Indirect Waste Pipe Connection Size	Tag Letter (b)
DW Size (b)	Direct Waste Pipe Connection Size	Tag Letter (b)
DW RI HT	Direct Waste Rough-In Height	
Gas Size (d)	Gas Pipe Connection Size	Tag Letter (d)
Gas BTU	Gas BTU	
Gas RI HT	Gas Rough-In Height	
Gas Size 2	Gas Pipe Second Connection Size	Tag Letter (d)
Gas BTU 2	Gas BTU Second Connection	
Gas RI HT 2	Gas Rough-In Height Second Connection	

MECHANICAL TYPICAL SCHEDULE ABBREVIATIONS

Abbreviation	Actual name	Comments
LIQUID	Refrigeration Liquid Pipe Connection Size	
SUCTION	Refrigeration Suction Pipe Connection Size	
R RI HT	Refrigeration Connection Rough-In Height	
EX Total CFM	Exhaust Total CFM	
EX DIA	Exhaust Duct Diameter	
EX W	Exhaust Duct Connection Width	
EX D	Exhaust Duct Connection Depth	
S.P.	Exhaust Static Pressure	
C.F.M.	Exhaust Volume	
EX RI HT	Exhaust Connection Rough-In Height	
EX ToT CFM (b)	Exhaust Total CFM Second Connection	
EX W (b)	Exhaust Duct Connection Width Second Connection	Tag Letter (b)
EX D (b)	Exhaust Duct Connection Depth Second Connection	
S.P. (b)	Exhaust Static Pressure	
C.F.M. (b)	Exhaust Volume	
EX RI HT(b)	Exhaust Second Connection Rough-In Height	
MU Total CFM	Exhaust Total CFM	
MU W	Make Up Air Duct Width	
MU D	Make Up Air Depth	
MU S.P.	Exhaust Static Pressure	
MU C.F.M	Make Up Air Volume	
MU RI HT	Make Up Air Connection Rough-In Height	



1 Level 1 - Equipment Plumb/Mech Plan
1/4" = 1'-0"

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INTERMOUNTAIN HEALTHCARE

DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

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No. 120681-0301
LICENSED ARCHITECT
STATE OF UTAH
01/24/2020

PLUMBING - MECHANICAL PLAN & SCHEDULE

FS-1.2

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Speciality Equipment Schedule

Item #	Qty	Description	Manufacturer	Model	Remarks
1-01	8	FLOOR SINK	N.I.C.	BY PLUMBING CONTRACTOR	Supplied & Installed by P.C.
1-02	5	AREA DRAIN	N.I.C.	BY PLUMBING CONTRACTOR	Supplied & Installed by P.C.
1-03	4	HAND SINK	Advance Tabco	7-PS-95	
1-04	4	TRASH CAN	Rubbermaid	3540-GR	
1-05	2	ROLL-IN REFRIGERATOR	Traulsen	RRI232HUT-FHS	
1-06	1	WORKTABLE, ENCLOSED BASE	Advance Tabco	EK-SS-308	
1-07	3	COFFEE/TEA BREWER	BUNN (By Owner's Vendor)	23001.0051	
1-07A	1	WATER FILTER SYSTEM	PENTAIR	EV9275-60	
1-08	13	TRAY TRANSPORT CART	DINEX	PSC1521-10	
1-09	2	72" STARTER SECTION W/ UNDER SHELVES	EASY ROLL	ER-72S	
1-09A	1	60" STARTER SECTION W/ UNDER SHELF	EASY ROLL	ER-60S-1	ONE UNIT W/ ONE UNDER SHELF
1-10	1	55" TRAY ROLLER LINE	EASY ROLL	ER-55X18	
1-11	1	24" ROLLER SECTION W/(2) UNDERSHELVES	EASY ROLL	ER-24	
1-12	1	SELF-LEAVELING TRAY DISPENSER	DELFIELD	LT-1622	BUILT IN TO CUSTOM BASE, ITEM 1-12A.
1-12A	1	TRAY DISPENSER ENCLOSURE	FABRICATION	CUSTOM	
1-13	1	ELECTRIC CONVEYOR TOASTERS	HATCO CORPORATION	TK-100	
1-14	1	JUICE DISPENSER	BUNN (By Owner's Vendor)	37300.0004	
1-15	1	SS TABLE	FABRICATION	CUSTOM	
1-17	1	LOW TEMPERATURE COOK & HOLD OVEN	ALTO-SHAAM	1000-TH-II STK	
1-18	1	SHELF W/C FRAME 3 TIER	METRO	NS1848	3 TIERS/C-FRAME/63" POST
1-19	1	DISH/TRAY CART	Caddy Corp	T-145	
1-20	2	HEAT ON DEMAND ACTIVATOR	Aladdin Temp-Rite	IND5003	
1-21	1	DOME RACKS	Aladdin Temp-Rite	DR160E	
1-22	6	AIR CURTAIN REFRIGERATOR	Aladdin Temp Rite	RAC103SL	
1-23	1	UNDERCOUNTER FREZZER	TRUE FOOD SERVICE EQUIPMENT, INC.	TUC-44F-HC	
1-24	11	WIRE WALL SHELF	METRO	SW23C/1442NS	SW23C WALL BRACKETS/ TWO1442 NS SHELF
1-24A	1	WIRE WALL SHELF	METRO	SW23C/1442NS	SW23C WALL BRACKETS/1442 NS SHELF
1-25	2	REGALINE SINK, 1-COMPARTMENT, W/ L 36"	Advance Tabco	94-41-24-36L	
1-26	1	PASTA COOKER	Montague	CPG-2	
1-27	1	WALL MOUNTED PAN/POT RACK	Eagle Group	WM36PR	
1-28	1	FOOD WARMER, OVERHEAD	Hatco	GRAL-72D3	W/ RMB-7L remote, Installs in Item 1-37 Chef's Counter
1-29	1	WALL MOUNTED PAN/POT RACK	Eagle Group	WM60PR	
1-30	1	REGALINE SINK, 3-COMP, W/ LR-HAND D 24"	Advance Tabco	94-3-54-24RL	w/T&S Faucet B-0231 & B-0133
1-31	2	CONVECTED AIR DISH HEATER	Aladdin Temp-Rite	DH07	
1-32	1	HEATED SERVING COUNTER	FABRICATION	CUSTOM	w/Richlite 3/4" thick cutting boards (3) 12"x22" segments
1-33	1	CONSERV 75S RO SYSTEM US	PENTAIR	EV997600	Interconnect with Item 1-61.
1-34	2	HIGH SPEED OVEN	Merrychef	eikon e2s Trend	
1-35	1	SALAD TOP REFRIGERATOR	Delfield	UCD4448N-12	
1-35A	1	SALAD TOP REFRIGERATOR	Delfield	UC4448N-12	
1-36	1	SANDWISH PRESS	Electrolux	603870	
1-37	1	CHEF'S COUNTER	EASY ROLL	CUSTOM	
1-38	1	REFRIGERATED BASE	U.S. Range	UN17C48	
1-39	1	SANDWICH UNIT, REFRIGERATED	Continental Refrigerator	DL27-12M	
1-40	1	CHAR-BROILER, GAS	Garland	GTBG24-NR24	
1-40A	1	REFRIGERATED BASE	Garland	UN17C72	
1-41	1	HEAVY DUTY GAS RANGE	Garland	M42-6T	
1-42	1	HEAVY DUTY 48" GRIDDLE	U.S. Range	C0836-48-1PC	
1-43	1	CONVECTION OVEN GAS	Garland	MCO-GS-20	
1-44	1	KETTLE	CLEVELAND	KGT-12-T	
1-45	1	EQUIPMENT STAND WITH DRAIN	CLEVELAND RANGE	SD-760	
1-46	1	REACH-IN FREEZER	Delfield	GBF1P-SH	
1-47	1	EXHAUST HOOD	CADDY CORP.	SHBC-C-W-192-ND-63	W/ ANSUL & VFD SYSTEM
1-48	28	ROOM SERVICE CART	Aladdin Temp-Rite	SC12S-525DPR	
1-49	1	LOW TEMPERATURE HOT HOLDING CABINET & WARMER	ALTO-SHAAM	300-S	
1-50	1	FABRICATED NSF SINK, 2-COMP, 24" R DRAINBOARD	Advance Tabco	FS-2-1524-24R	
1-51	1	BLAST CHILLER / SHOCK FREEZER	Irinox North America	MF 100.1-MYA Reach-In W/Ramp	
1-52	3	CHIT PRINTER	NIC	BY OWNER	
1-53	2	WORK TABLE	Advance Tabco	SS-368	W/ CASTERS
1-54	1	HEAVY DUTY GAS RANGE	Garland	G48-8SS	
1-55	2	UNDERCOUNTER REFRIGERATOR	Delfield	GUR48P-G	W/ 3" CASTERS
1-56	1	PATIENT ORDERING STATION	By Owner's Vendor	NIC	
1-57	1	WORK TABLE	Advance Tabco	SS-305	
1-58	1	SOILD RETURN CARTS	Lakeside	847	
1-59	13	STAINLESS STEEL WALL PANEL	FABRICATION	CUSTOM	
1-60	1	WORK TABLE	FABRICATION	CUSTOM	8" BACK SPLASH.
1-61	1	OVEN-STEAMER,COMBINATION,GAS ROLL-IN	CONVOTHERM	C4eD 20.10 GB	W/ TWO ROLLING RACKS, 1 SHALL BE PLATE DOLLY TYPE.
1-62	1	WARMER DRAWER	APW Wyott	HDDI-2	INSTALL ON SHELF, NO LEGS
1-63	1	BUN PAN RACK	Channel Manufacturing	413S	

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INTERMOUNTAIN HEALTHCARE

DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

Project Status
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LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

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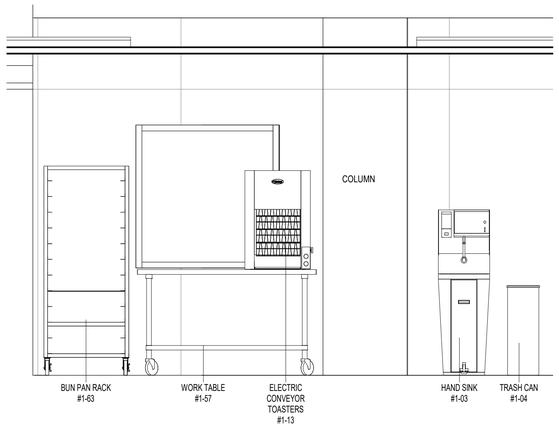
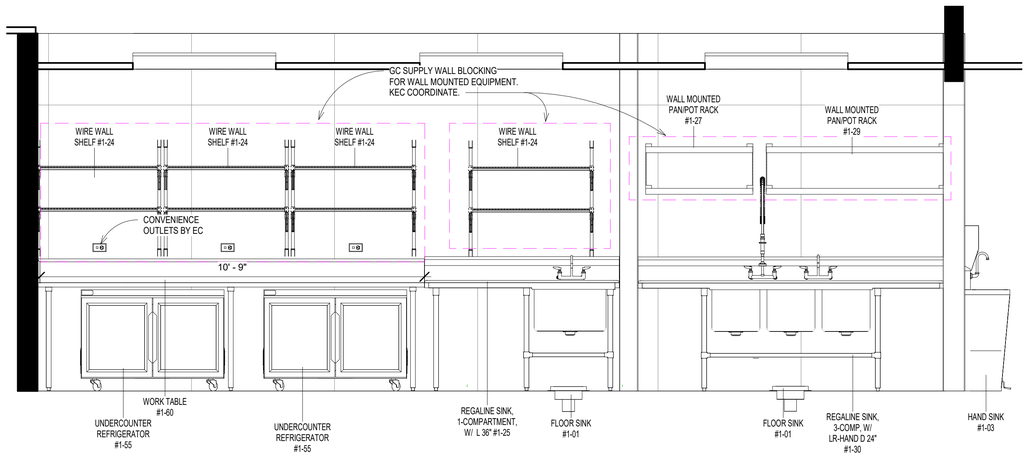
SCHEDULE

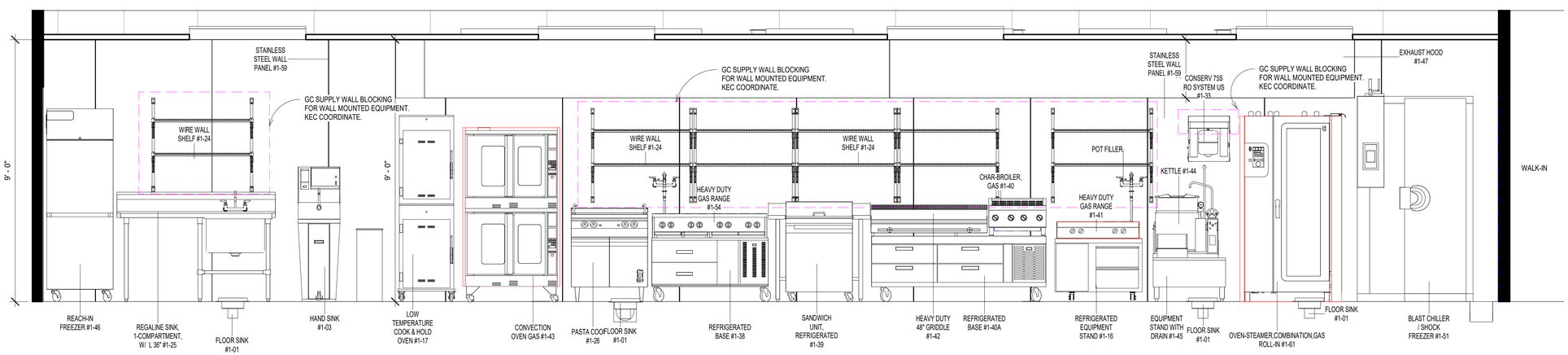
FS-2



5 Toast Station
1/2" = 1'-0"



4 Prep Line
1/2" = 1'-0"



3 Cookline
1/2" = 1'-0"

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INTERMOUNTAIN HEALTHCARE

DIETARY ROOM SERVICE REMODEL

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LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
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ELEVATIONS

FS-3

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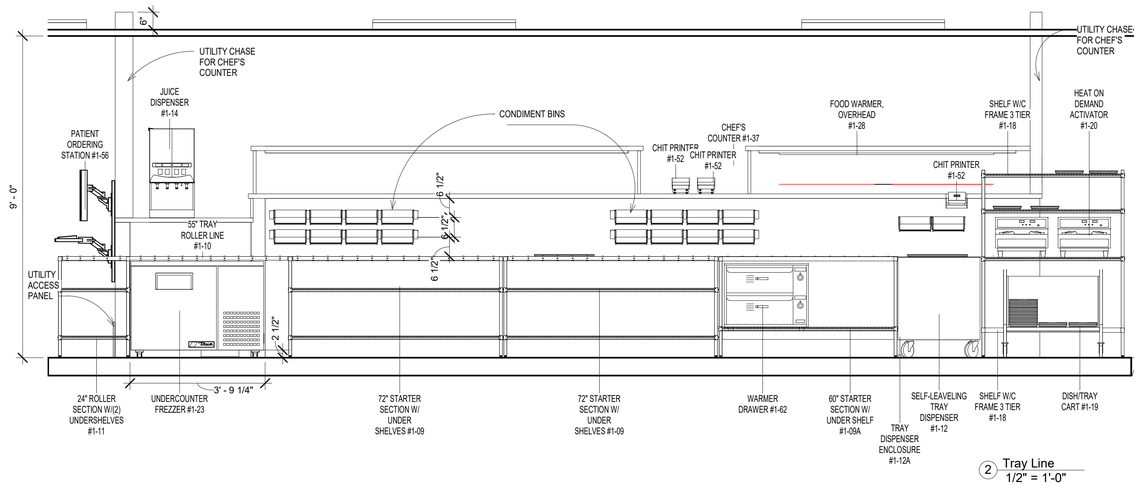
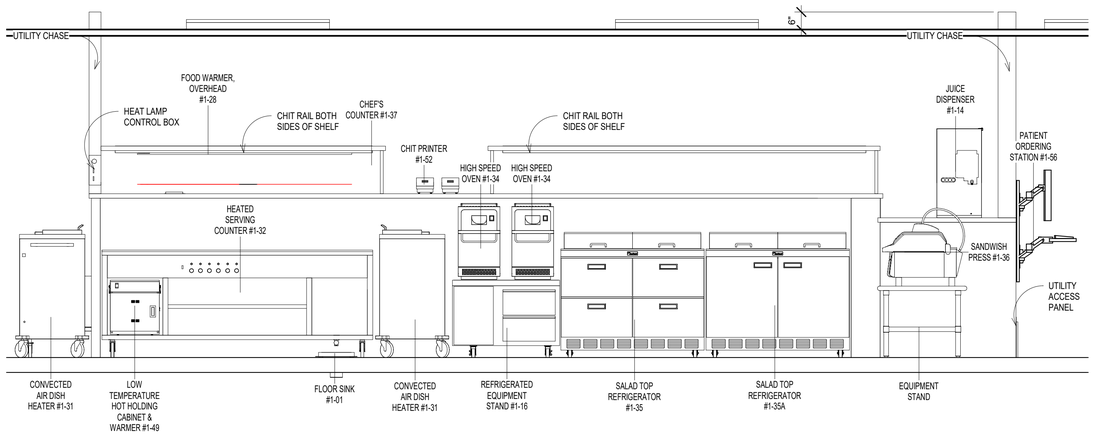


2 Tray Line
1/2" = 1'-0"



1 Chef's Table Line
1/2" = 1'-0"

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INTERMOUNTAIN HEALTHCARE

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ELEVATIONS

FS-4

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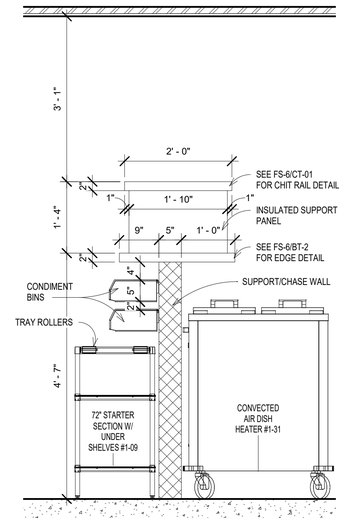
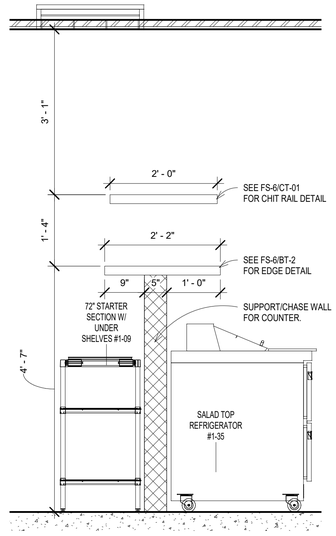
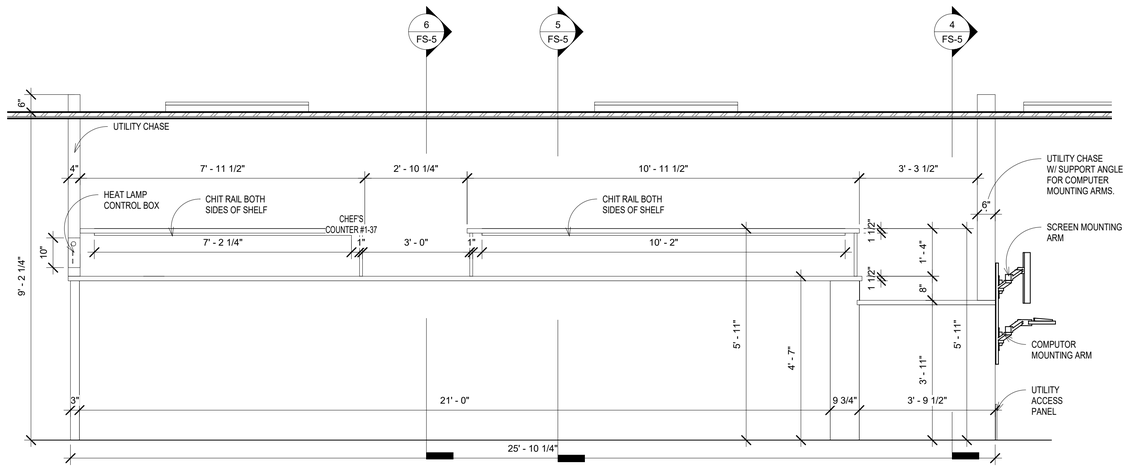


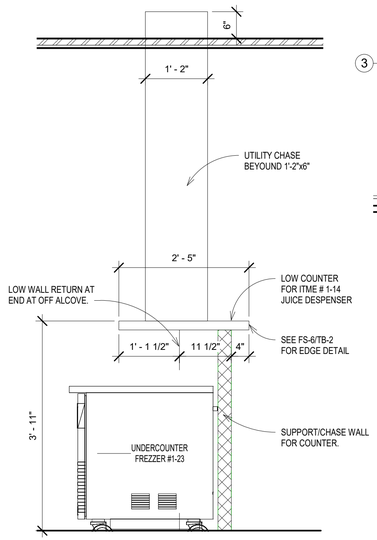
6 Section 6 - CHEF'S COUNTER
3/4" = 1'-0"



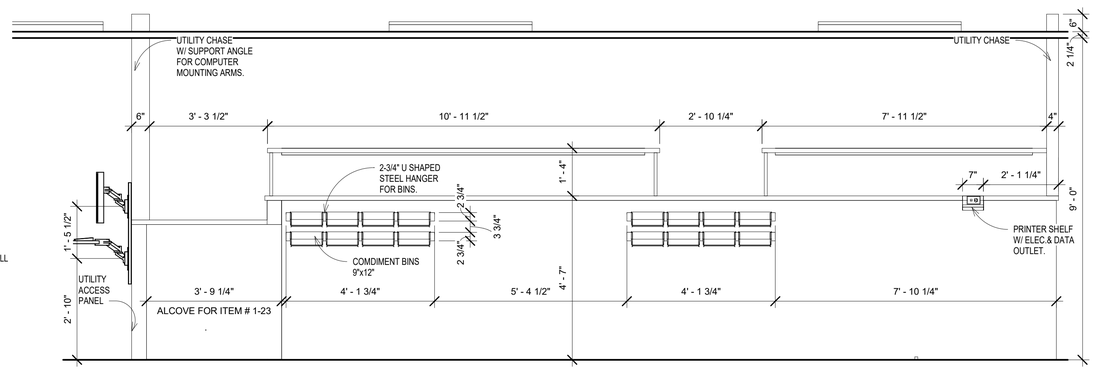
5 Section 5 - CHEF'S COUNTER
3/4" = 1'-0"



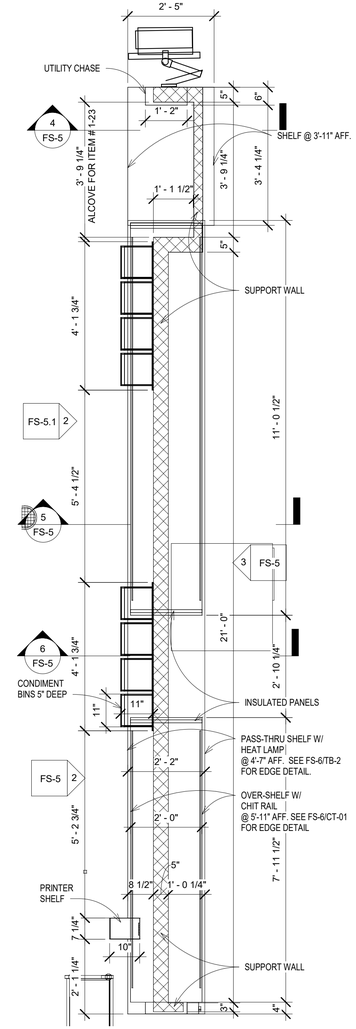
3 ITEM 1-37 - CHEF'S COUNTER BACK ELEVATION
1/2" = 1'-0"



4 Section 4 - CHEF'S COUNTER
3/4" = 1'-0"



2 ITEM 1-37 - CHEF'S COUNTER FRONT ELEVATION
1/2" = 1'-0"



1 Level 1 - ITEM 1-37 - CHEF'S COUNTER PLAN VIEW
1/2" = 1'-0"

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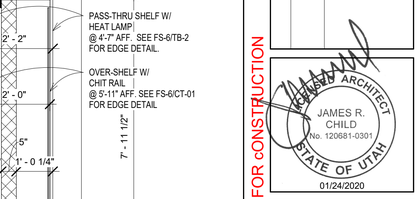

01/24/2020

ENLARGED
PLANS &
SECTIONS

FS-5

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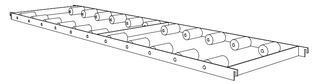
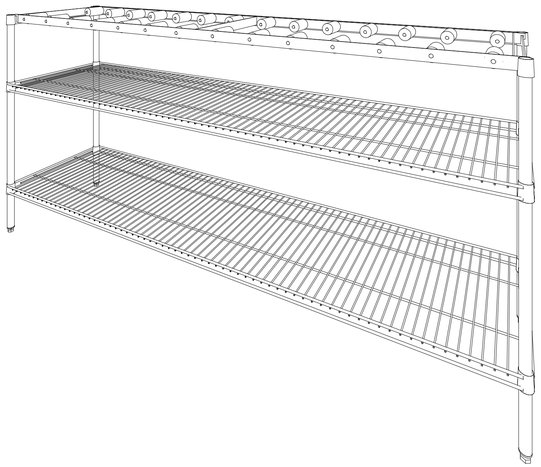
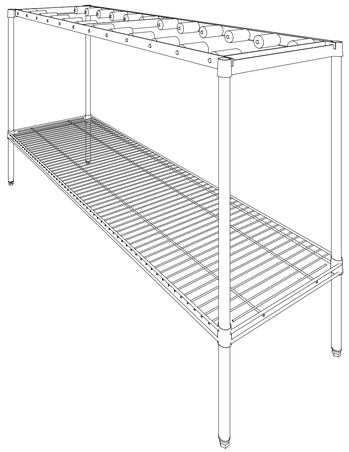


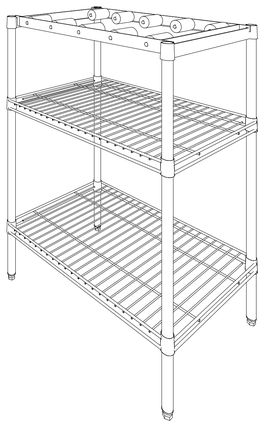
6 ITEM 1-10 3D VIEW



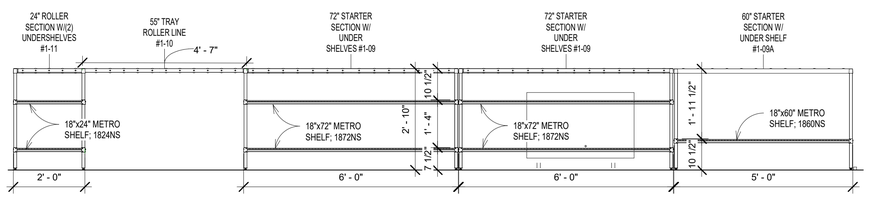
5 ITEM 1-09 3D VIEW



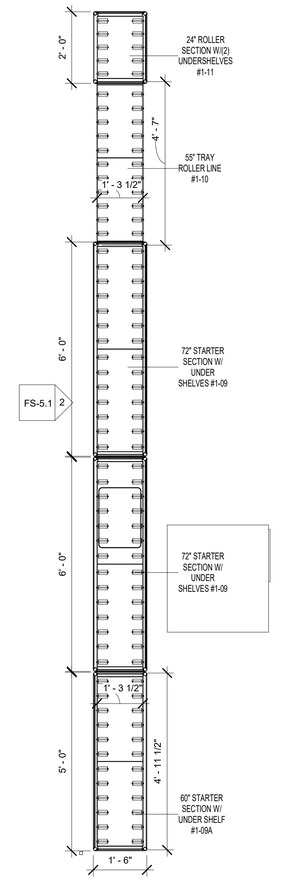
4 ITEM 1-09A 3D VIEW



3 ITEM 1-11 3D VIEW



2 TRAY LINE ELEVATION
1/2" = 1'-0"



1 Level 1 - TRAY LINE ENLARGED PLAN
1/2" = 1'-0"

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INTERMOUNTAIN HEALTHCARE
DIETARY ROOM SERVICE REMODEL

PROJECT #: 19-006

Project Status Issue Date		
△	DATE	REVISION
1	12/20/19	PERMIT REVIEW SET

LICENSED ARCHITECT
JAMES R. CHILD
No. 120681-0301
STATE OF UTAH
01/24/2020

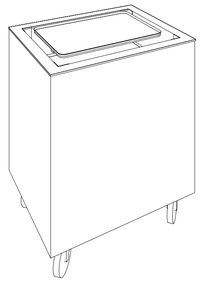
ENLARGED PLANS & SECTIONS

FS-5.1

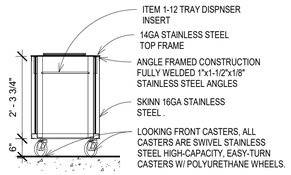
BIDDING DOCUEMENTS - NOT FOR cONSTRUCTION

C:\01-share\Shared Folders\19-006 IMC Room Service Kitchen Remodel\19-006 - IMC Room Service Kitchen Remodel -SYNC\FS_IMC-R19 REV II.rvt

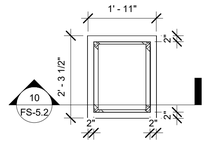
12/18/2019 12:56:52 PM



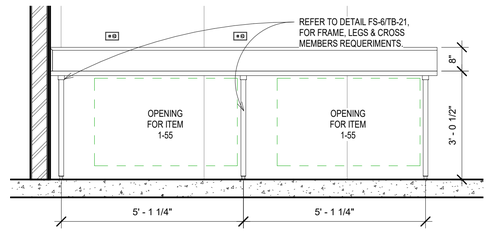
11 ITEM 1-12A 3D VIEW



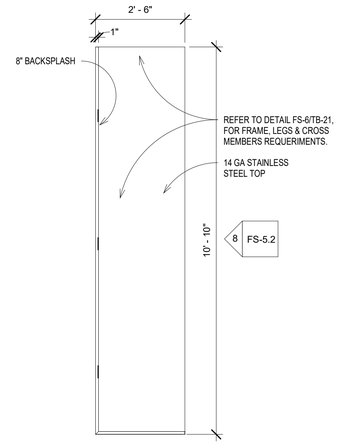
10 Section 1 - TRAY DISPENSER ENCLOSURE
1/2" = 1'-0"



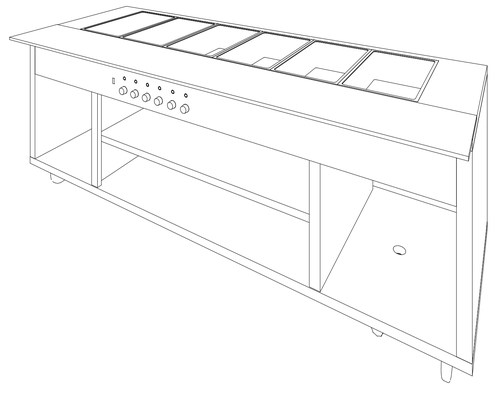
9 Level 1 - ITEM 1-12A- TRAY DISPENSER ENCLOSURE
1/2" = 1'-0"



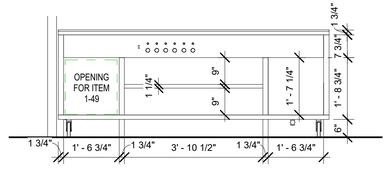
8 ITEM 1-60 - PREP TABLE
1/2" = 1'-0"



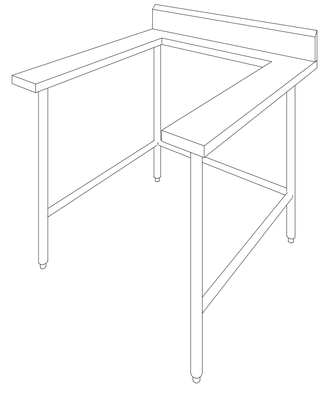
7 Level 1 - ITEM 1-60 -PREP TABLE
1/2" = 1'-0"



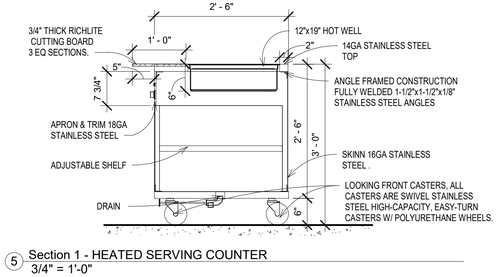
6 ITEM 1-32 3D VIEW



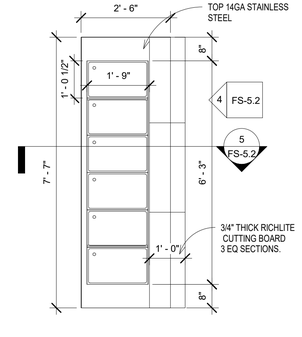
4 ITEM 1-32 - HEATED SERVING COUNTER FRONT VIEW
1/2" = 1'-0"



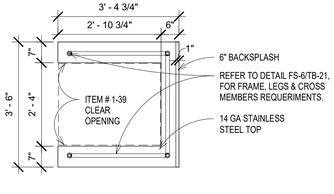
2 ITEM 1-15 3D VIEW



5 Section 1 - HEATED SERVING COUNTER
3/4" = 1'-0"



3 Level 1 - ITEM 1-32 - HEATED SERVING COUNTER
1/2" = 1'-0"



1 Level 1 - ITEM 1-15 - COOKLINE TABLE
1/2" = 1'-0"

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JAMES R. CHILD
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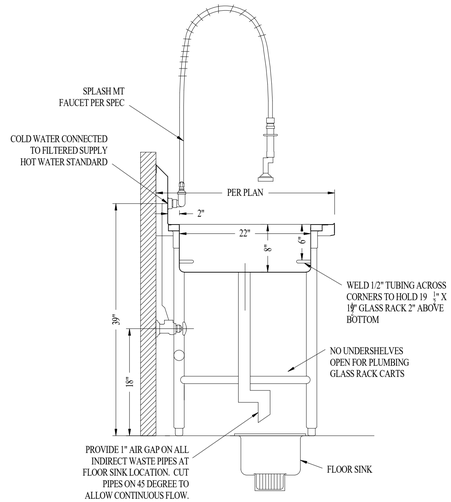
STATE OF UTAH
01/24/2020

ENLARGED PLANS & SECTION

FS-5.2

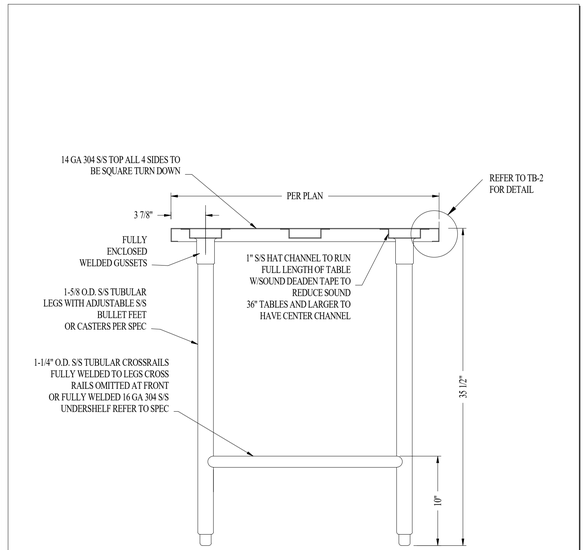
BIDDING DOCUEMENTS - NOT FOR cONSTRUCTION

REFER TO TB-43 FOR TABLE DETAIL



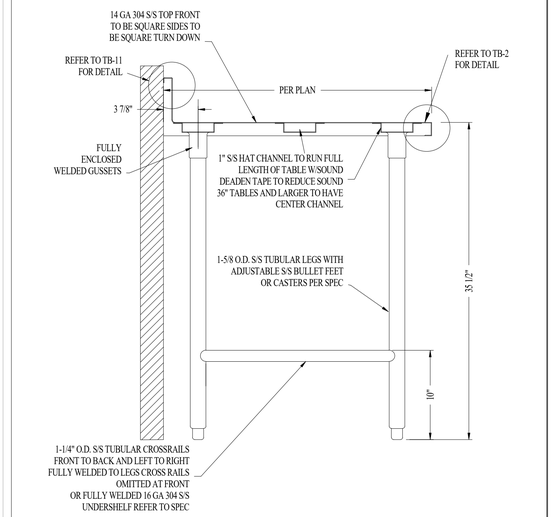
TYPICAL MARINE EDGE TABLE W/WATER FILLER SINK SIDE SECTION

Detail # TB-102 SCALE: N.T.S.



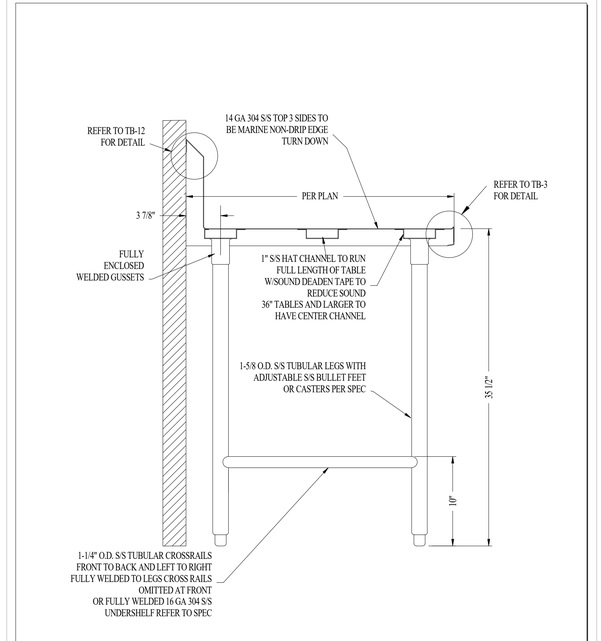
TYPICAL SQUARE EDGE TABLE SIDE SECTION

Detail # TB-21 SCALE: N.T.S.



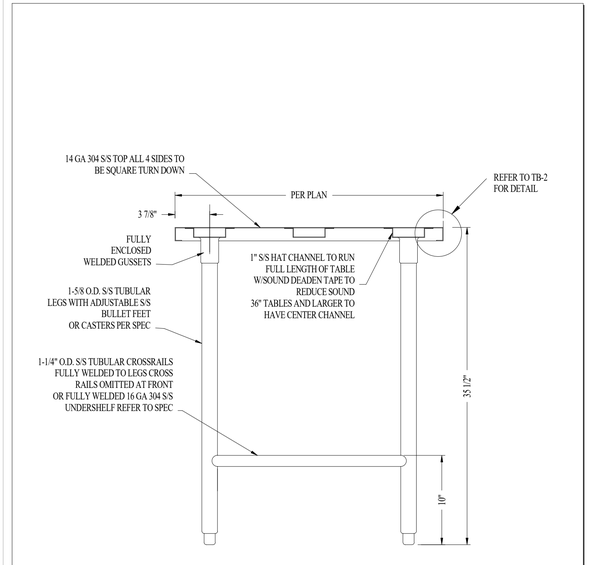
TYPICAL SQUARE EDGE TABLE 5" SQUARE BACK SPLASH SIDE SECTION

Detail # TB-34 SCALE: N.T.S.



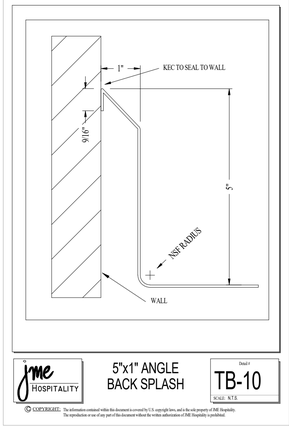
TYPICAL MARINE EDGE TABLE W/ 10 1/2" ANGLED BACK SPLASH SIDE SECTION

Detail # TB-43 SCALE: N.T.S.



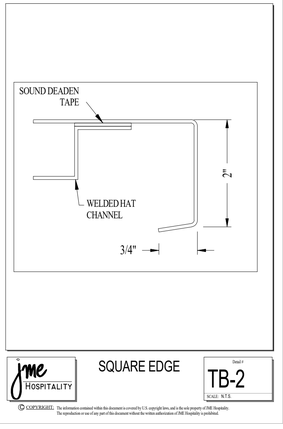
TYPICAL SQUARE EDGE TABLE SIDE SECTION

Detail # TB-21 SCALE: N.T.S.



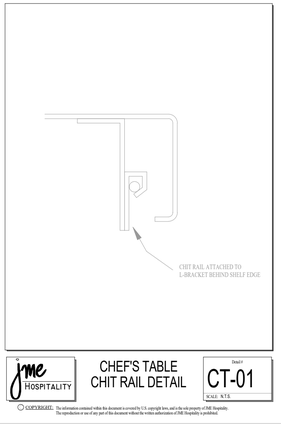
5"x1" ANGLE BACK SPLASH

Detail # TB-10 SCALE: N.T.S.



SQUARE EDGE

Detail # TB-2 SCALE: N.T.S.



CHEF'S TABLE CHIT RAIL DETAIL

Detail # CT-01 SCALE: N.T.S.

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TYPICAL DETAILS CUSTOM ITEMS

FS-6