SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital

401 15th Ave. SE, Puyallup WA 98372

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Authorized to Begin Construction

Construction Review Services has authorized this project to begin construction.

- See accompanying project comment form for review status and corrections.
- This is not a building permit, check with your local building department.

02/04/2022 8:55:43 AM

CLARK KJOS ARCHITECTS, LLC
621 SW Alder St., Suite 700
Portland, OR 97205
Phone: 503/224-4848

11095 REGISTERED ARCHITECT SCOTT D. COMBS STATE OF WASHINGTON

CODE SUMMARY

PROJECT NAME:	MGSH - SPEC CT EQUIPMENT UPGRADE
ADDRESS:	401 15TH AVENUE SE PUYALLUP, WA 98372
OWNER:	MULTICARE HEALTH SYSTEM
CODES:	2018 IBC WITH STATE OF WASHINGTON AMENDMENTS, NFPA 101 -CHAPETER 18
OCCUPANCY:	I-2
NUMBER OF STORIES:	EIGHT
CONSTRUCTION TYPE:	1-A
FIRE PROTECTION:	FULLY SPRINKLERED
FIRE ALARM SYSTEM:	YES
ALLOWABLE SQUARE FOOTAGE:	(TABLE 506.2)
ALLOWABLE SQUARE FOOTAGE FOR GROUP I-2 (1-A):	UNLIMITED
TOTAL AREA ALLOWED:	UNLIMITED
ACTUAL SQUARE FOOTAGE:	
FIRE SEPARATION DISTANCE:	≥30'-0"
MAXIMUM AREA OF EXTERIOR WALL OPENINGS (705.8):	≥30'-0" UNPROTECTED, SPRINKLERED UNLIMITED
OCCUPANT LOAD:	1/120 SF, SLEEPING AREAS 1/20 SF, CLASSROOM
MAX. COMMON PATH OF TRAVEL (1006.2.1):	75 FT
MAX. TRAVEL DISTANCE (1017.2.1):	200 FT

FIRE RESISTIVE RATINGS: (TABLE NO. 601, 602 OF THE I.B.C.)	
BUILDING ELEMENT (>10' SEPARATION)	TYPE 1-A
STRUCTURAL FRAME	3 HOUR
BEARING WALLS	
EXTERIOR	3 HOUR
INTERIOR	3 HOUR
NON BEARING WALLS AND PARTITIONS	
EXTERIOR	1 HOUR, IF <30' FIRE SEPARATION DISTANCE 0 HOUR, IF ≥30' FIRE SEPARATION DISTANCE
INTERIOR	0 HOUR
FLOOR CONSTRUCTION	
INCLUDING SUPPORTING BEAMS AND JOISTS	2 HOUR
NON BEARING WALLS AND PARTITIONS	
INCLUDING SUPPORTING BEAMS AND JOISTS	1.5 HOUR

THE APPROVED CONSTRUCTION PLANS AND ALL DOCUMENTS MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BEPROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS

BUILDING/PLUMBING/MECHANICAL PERMIT 2018 CODES

City of Puyallup
Building
REVIEWED FOR COMPLIANCE
DLeahy
02/23/2022
12:07:20 PM

SYMBOLS AND FILL PATTERNS

- 1/4:12 SLOPE — SURFACE SLOPE
- STUD SIZE — WALL ASSEMBLY
- A34X — WALL TAG — MODIFIER
- 1 — KEYNOTE
- 1 — DOOR NUMBER - REF DOOR SCH — DOOR TAG
- A-1 — FINISH TAG
- W1 — WINDOW TYPE - REF WINDOW SCH — WINDOW TAG
- ACT-1 9'-0" — CEILING MATERIAL — CEILING TAG — CEILING HEIGHT ABOVE FINISHED FLOOR- ALL CEILINGS 9'-0" UNLESS OTHERWISE NOTED.
- Name / Elevation — ELEVATION TAG
- Room Name 101 150 SF — ROOM TAG — ROOM NUMBER
- 1 — DRAWING REVISION
- 1 / A7.01 — DRAWING NUMBER — CALLOUT — SHEET NUMBER
- 1 / A1.01 — BUILDING SECTION
- 1 / A1.01 — WALL SECTION
- 1 / 4 A3.00 2 / 3 — DRAWING NUMBER — EXTERIOR ELEVATION — SHEET NUMBER
- 1 / 4 A3.00 2 / 3 — DRAWING NUMBER — INTERIOR ELEVATION — SHEET NUMBER
- 1 1/4" / 1 1/4" — DIMENSION TO FACE OF FRAMING, FACE OF CONCRETE, GRID LINE, OR AS NOTED. — CLEAR DIMENSION TO FINISH FACE OR AS NOTED
- NORTH ARROW — PROJECT NORTH (SEE CIVIL FOR TRUE NORTH)
- (E) 98.75' — EXISTING SPOT ELEV
- 98.75' — NEW SPOT ELEV

ASPHALT, CONCRETE, EARTH, GLASS, GRAVEL, GYPSUM BOARD, INSULATION - ACOUSTICAL, INSULATION - BATT, INSULATION - RIGID, INSULATION - SEMI RIGID, MASONRY - BRICK, MASONRY - CONCRETE BLOCK, METAL - ALUMINUM, METAL - STEEL, SAND, *WOOD - BLOCKING, *WOOD - CONTINUOUS, WOOD - FINISH, WOOD - PARTICLE BOARD, WOOD - PLYWOOD

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF SUBCONTRACTOR'S WORK, COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS, ACCURATE LOCATION OF STRUCTURAL MEMBERS, AND OPENINGS FOR MECHANICAL, ELECTRICAL, AND MISCELLANEOUS EQUIPMENT.
5. CONTRACTOR SHALL VERIFY DIMENSIONS AND CLEARANCES FROM MANUFACTURER PRIOR TO THE CONSTRUCTION AND INSTALLATION OF ALL EQUIPMENT, FURNISHINGS, AND ACCESSORIES.
6. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE DURING CONSTRUCTION AND UNTIL PROJECT COMPLETION.
7. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES, WHETHER INDICATED IN DRAWINGS OR NOT.
8. PROVIDE BACKING, BLOCKING, OR STRAPPING AS REQUIRED FOR GRAB BARS, SHELVING, EQUIPMENT, HANDRAILS, ACCESSORIES, AND CABINETS.
9. COORDINATE LOCATIONS OF IN-WALL ITEMS TO AVOID BACK TO BACK INSTALLATION.
10. ALL SAFETY GLAZING SHALL BE PERMANENTLY LABELED WITH THE MANUFACTURER'S NAME AND TEST APPROVAL INFORMATION.
11. SEE STRUCTURAL FOR REQUIRED SPECIAL INSPECTIONS.
12. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL AND EQUIPMENT INFORMATION.

ABBREVIATIONS

Ø	DIAMETER	HVAC	HEATING, VENTILATING, AIR CONDITIONING
⊥	PERPENDICULAR	HWD	HARDWOOD
A/C	AIR CONDITIONING		
AB	ANCHOR BOLT	ID	INSIDE DIAMETER
ACC	ACCESSIBLE	INS	INSULATE(D), INSULATION
ACT	ACOUSTICAL TILE	INT	INTERIOR
ADD	ADDENDUM		
AFF	ABOVE FINISH FLOOR	JAN	JANITOR
AL	ALUMINUM	JT	JOINT
ALT	ALTERNATE		
ANOD	ANODIZED	LAM	LAMINATE(D)
AP	ACCESS PANEL	LAV	LAVATORY
ARCH	ARCHITECT(URAL)	LH	LEFT HAND
AUTO	AUTOMATIC	LW	LIGHTWEIGHT
B.O.	BOTTOM OF	MAX	MAXIMUM
BATT	BATT INSULATION	MECH	MECHANICAL
BIT	BITUMINUS	MFR	MANUFACTURE(R)
BLDG	BUILDING	MGR	MANAGER
BM	BENCH MARK	MH	MANHOLE
BOL	BOLLARD	MIN	MINIMUM
BP	BUILDING PAPER	MISC	MISCELLANEOUS
		MO	MASONRY OPENING
CCTV	CLOSED CIRCUIT TV	MOD	MODULAR
CF	CUBIC FOOT	MP	METAL PANEL
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	MRGB	MOISTURE RESISTANT GYPSUM WALL BOARD
CG	CORNER GUARD	MTL	METAL
CJ	CONTROL JOINT		
CLG	CEILING	N	NORTH
CLR	CLEAR(ANCE)	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE		
CONST	CONSTRUCTION	OC	ON CENTER(S)
CONT	CONINUOUS, CONTINUE	OD	OUTSIDE DIAMETER
CT	CERAMIC TILE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CTR	CENTER	OFOI	OWNER FURNISHED, OWNER INSTALLED
		OH	OVERHEAD
DA	DOUBLE ACTING	OPP	OPPOSITE
DEMO	DEMOLISH/DEMOLITION		
DEP	DEPRESSED	P	PAINT(ED)
DF	DRINKING FOUNTAIN	PERF	PERFORATE(D)
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DIAG	DIAGONAL	PSF	POUNDS PER SQUARE FOOT
DIM	DIMENSION	PSI	POUNDS PER SQUARE INCH
DISP	DISPENSER	PT	PRESSURE TREATED
DIV	DIVISION	PTD	PAPER TOWEL DISPENSER
DMT	DEMOUNTABLE	PTN	PARTITION
DN	DOWN	PWD	PLYWOOD
DP	DAMPPROOFING		
DR	DOOR	QT	QUARRY TILE
DS	DOWNSPOUT		
DTL	DETAIL	RA	RETURN AIR
DW	DISHWASHER	RAD	RADIUS
DWG	DRAWING(S)	RD	ROOF DRAIN
DWR	DRAWER	REF	REFRIGERATOR
		REQ	REQUIRED
(E)	EXISTING	REV	REVISION(S), REVISED
E	EAST	RH	RIGHT HAND
EA	EACH	RM	ROOM
EJT	EXPANSION JOINT	RO	ROUGH OPENING
EL	ELEVATION		
ELEC	ELECTRIC(AL)	S	SOUTH
EMER	EMERGENCY	SAM	SELF ADHERED MEMBRANE
EP	ELECTRICAL PANEL	SC	SOLID CORE
EQ	EQUAL	SCHED	SCHEDULE
EQUIP	EQUIPMENT	SEC	SECTION
EXH	EXHAUST	SFRM	SPRAY-APPLIED FIRE RESISTIVE MATERIAL
EXP	EXPANSION	SIM	SIMILAR
EXP	EXPOSED	SPEC	SPECIFICATION(S)
EXT	EXTERIOR	SQ	SQUARE
		STD	STANDARD
F.O.	FACE OF	STL	STEEL
FA	FIRE ALARM	STR	STRUCTURAL
FAF	FLUID APPLIED FLOORING	SUPP	SUPPLEMENT, SUPPLY
FD	FLOOR DRAIN, FIRE DAMPER	SV	SHEET VINYL
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET	T&G	TONGUE AND GROOVE
FF	FINISH FLOOR	TB	TOWEL BAR
FGL	FIBERGLASS	TEL	TELEPHONE
FHC	FIRE HOSE CABINET	TEMP	TEMPERED
FIN	FINISH(ED)	TKBD	TACKBOARD
FLOUR	FLOURESCENT	TO	TOP OF
FLR	FLOOR(ING)	TOC	TOP OF CURB OR CONCRETE
FND	FOUNDATION	TOF	TOP OF FRAMING
FP	FIREPROOFING	TOW	TOP OF WALL
FRP	FIBER-REINFORCED PLASTIC	TS	TUBE STEEL
FT	FIRE TREATED	TV	TELEVISION
FTG	FOOTING	TYP	TYPICAL
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
GB	GRAB BAR	VB	VAPOR BARRIER
GL	GLASS, GLAZING	VCT	VINYL COMPOSITION TILE
GWB	GYPSUM WALL BOARD	VERT	VERTICAL
GYP	GYPSUM	VG	VERTICAL GRAIN
GYP BD	GYPSUM BOARD		
		W	WEST
HB	HOSE BIBB	W/	WITH
HC	HOLLOW CORE	W/O	WITHOUT
HDR	HEADER	WC	WATER CLOSET
HDW	HARDWARE	WD	WOOD
HM	HOLLOW METAL	WH	WATER HEATER
HOR	HORIZONTAL	WP	WATERPROOF(ING)
HR	HOUR	WRB	WEATHER RESISTIVE BARRIER
HT	HEIGHT	WS	WATERSTOP
HTG	HEATING	WWF	WELDED WIRE FABRIC

PROJECT CONTACTS

OWNER: CBRE
602 13th Ave SE
Puyallup, WA 98372
TEL: (253) 691-6390
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ATTN: Leah Gendreau, Project Manager
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Portland, OR 97205
TEL: (503) 224-4848
FAX: (503) 224-7116
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EMAIL: scotjahn@ckarch.com

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600 Stewart St. Suite 1400
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TEL: (206) 576-7181
ATTN: Jay Jack, Electrical Associate Principal
EMAIL: jjack@sazan.com

MECHANICAL: MAZZETTI
2013 4th Ave Suite 200
Seattle, WA 98121
TEL: (425) 712-2153
ATTN: Adam Sachs, Mechanical Engineer
EMAIL: asachs@mazzetti.com

PROJECT DESCRIPTION

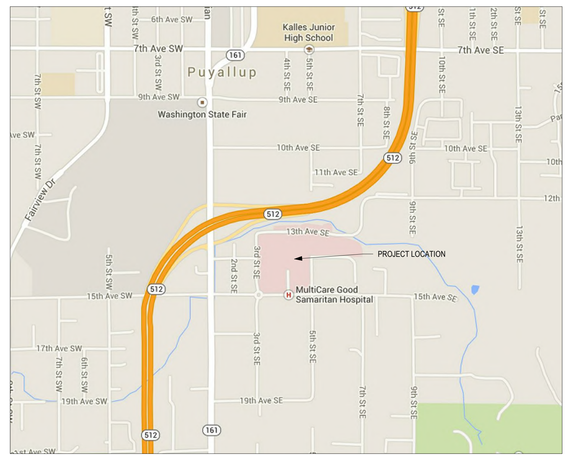
THE PROJECT INCLUDES REMOVAL AND RELOCATION OF A CT SCANNER FROM M343 TO ROOM M341, AND REFRESH OF BOTH ROOMS TO ACCOMMODATE NEW & RELOCATED SCANNERS. THE MACHINE LOCATED IN ROOM M341 IS TO BE REMOVED AND RETURNED TO VENDOR. FLOORING IN ROOM M341 WILL BE PATCHED OR REPLACED. A NEW CT SCANNER IS TO BE INSTALLED IN M343.

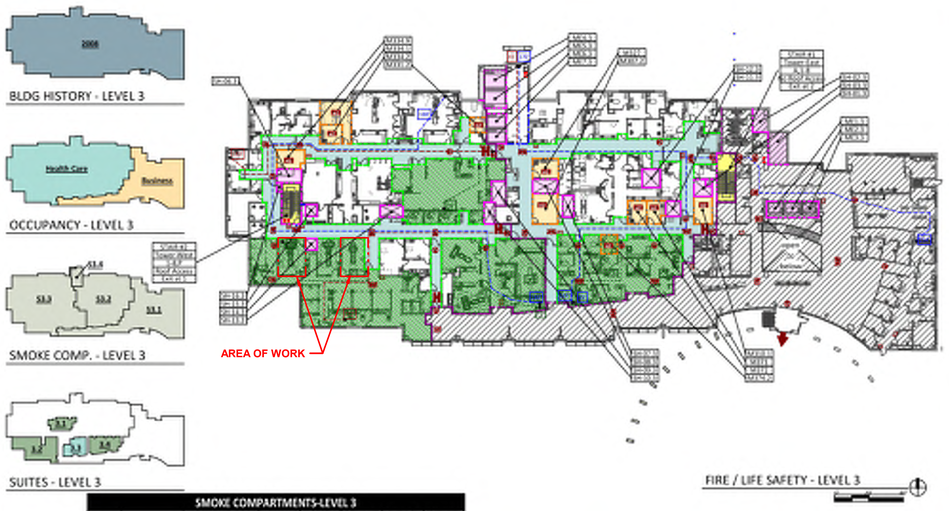
DRAWING INDEX

-DEFERRED SUBMITTALS-

1 FIRE ALARM REVISIONS
2 FIRE SPRINKLER MODIFICATIONS

VICINITY MAP





SMOKE COMPARTMENTS-LEVEL 3

COMP. ID	OCCUPANCY TYPE	AREA USE	AREA	LOAD FACTOR	OCCUPANT LOAD	DISTANCE SMOKE	DISTANCE EXIT
13.1	Business	Administration/Waiting/Circulation	17,109 SF				114'
13.2	Health Care	Inpatient Treatment Departments	13,254 SF	240 SF	55	165	165'
13.3	Health Care	Inpatient Treatment Departments	20,671 SF	240 SF	86	180	180'
13.4	Health Care	Elevator Lobby	1,177 SF	25 SF	78	45	170'
TOTAL			52,680 SF				

SUITES-LEVEL 3

SUITE ID	NAME	SUITE TYPE	AREA	LOAD FACTOR	OCC LOAD	SUITE EXIT DISTANCE
3.1	3.1	Sleeping Suite	1,658 SF	120 SF	14	38'
3.2	3.2	Patient Care Non-Sleeping Suite	4,790 SF	240 SF	20	74'
3.3	3.3	Patient Care Non-Sleeping Suite	1,673 SF	240 SF	8	58'
3.4	3.4	Patient Care Non-Sleeping Suite	2,611 SF	240 SF	11	69'

STATEMENT OF CONDITIONS
PATIENT CARE TOWER - LEVEL 3

MultiCare Health System
Good Samaritan Hospital
401 15th Ave SE, Puyallup, WA

GSH | SOC-13
IN REVIEW
01-31-2020

SPECT/CT REPLACEMENT
Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.09.21
REVISIONS:

CONSTRUCTION DOCUMENTS

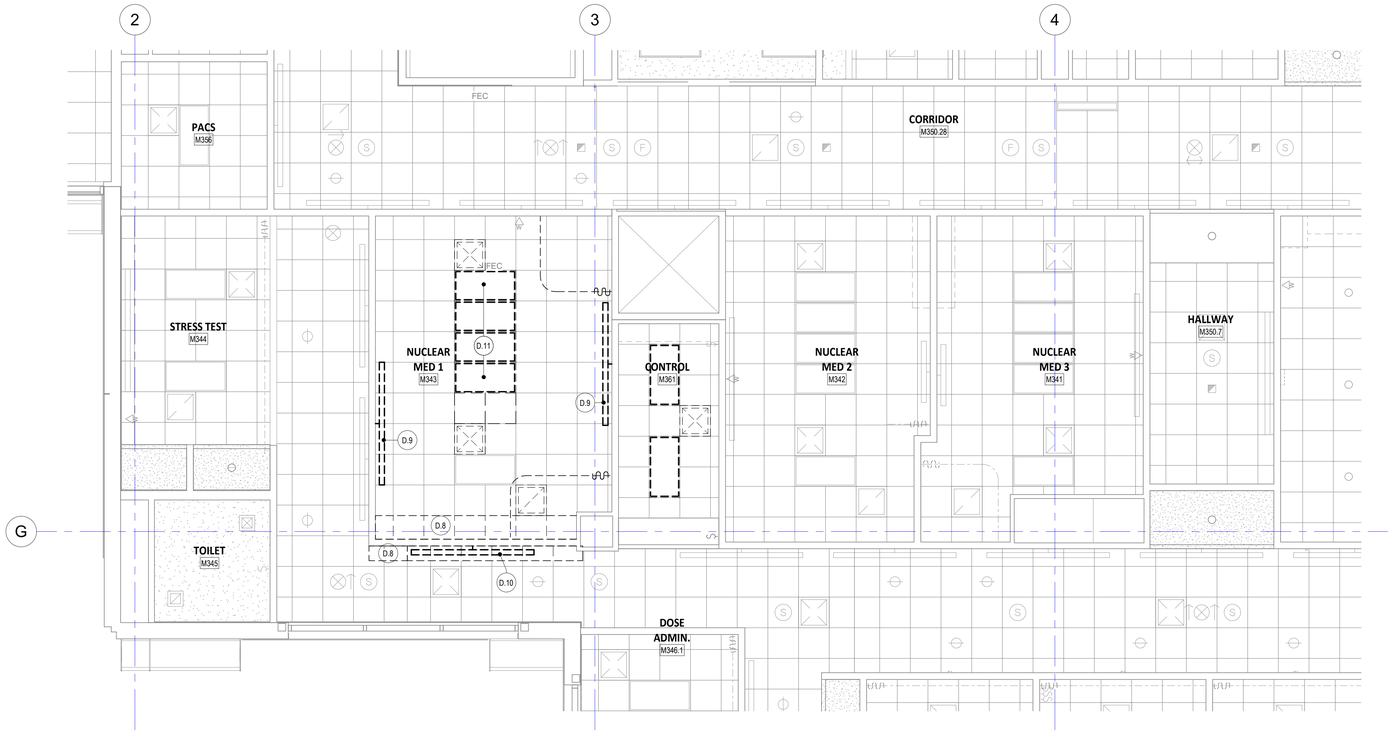
GEN. NOTES, SYMBOL, ABBRE. & FINISH CODE, FIRE AND LIFE SAFETY PLAN, CODE REVIEW

G0.01

PROJECT NO.: 20046

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



2 / D2.01 LEVEL 3 - DEMO RCP - NUC MED
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY LIMITS OF DEMOLITION WORK.
2. THIS DRAWING IDENTIFIES ONLY MAJOR WORK FOR DEMOLITION AND REMOVAL. ALL AREAS OF DEMOLITION SHALL BE CLEARED OF ALL ITEMS MAJOR AND MINOR TO RECEIVE INSTALLATION OF NEW CONSTRUCTION AND FINISHES
3. SEE REFLECTED CEILING PLANS FOR WORK THAT MAY IMPACT DEMOLITION
4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
5. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES AND CONDITIONS PRIOR TO COMMENCING WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. REPORT ANY DISCREPANCIES BETWEEN DIMENSIONS FOUND IN FIELD AND DIMENSIONS ON DRAWINGS TO ARCHITECT
6. LOCATE ALL WIRES, PIPES, UTILITIES, STRUCTURAL MEMBERS, ETC. PRIOR TO ANY DEMOLITION. CUTTING OF ANY ITEM WHICH IS NOT PART OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, INCLUDING ANY TESTING OR SPECIAL OBSERVATION TO CORRECT THE PROBLEM
7. PATCH AND PAINT WALLS, FLOORS, AND SUBFLOOR TO MATCH EXISTING WHERE WORK HAS DISTURBED EXISTING CONDITIONS.
8. ALL EXISTING FINISHES ARE TO BE PROTECTED FROM DAMAGE. DAMAGED AREAS SHALL BE REPAIRED AT NO COST TO THE OWNER.

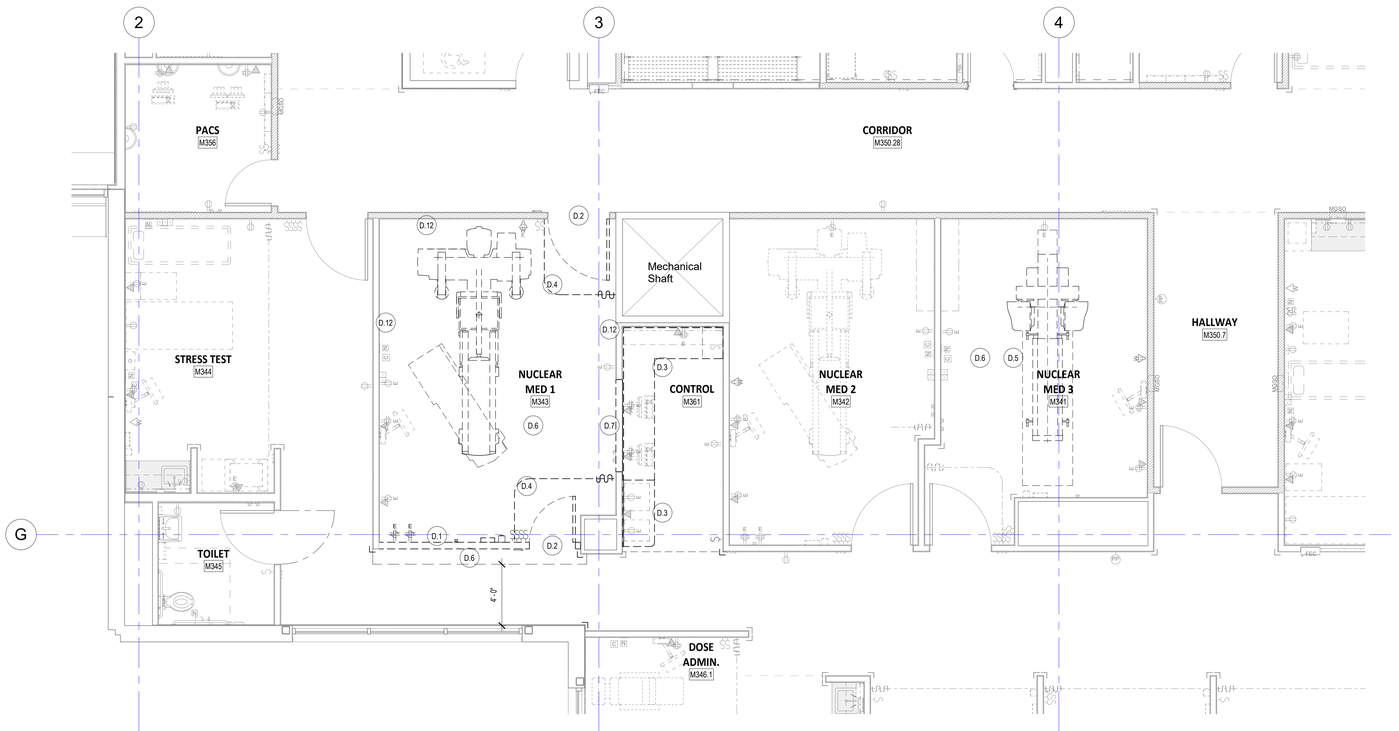
LEGEND

EXISTING PARTITION TO BE REMOVED

EXISTING PARTITION

KEYNOTES

D.1	REMOVE WALL AND FIXTURES.
D.2	REMOVE DOOR, FRAME, AND HARDWARE
D.3	REMOVE CASEWORK AND COUNTERS
D.4	REMOVE CURTAIN AND TRACK
D.5	REMOVE NUC MED MACHINE, PREP FOR RELOCATED MACHINE
D.6	REMOVE EXISTING FLOOR FINISH, PREP SURFACE FOR NEW FLOORING
D.7	CUT AND REMOVE SECTION OF WALL FOR NEW WINDOW
D.8	REMOVE PORTION OF ACT FOR NEW WALL LOCATION
D.9	REMOVE LINEAR SURFACE MOUNTED LIGHT FIXTURE
D.10	REMOVE LINEAR SURFACE MOUNTED LIGHT FIXTURE. REINSTALL FIXTURE ON NEW WALL.
D.11	REMOVE AND REINSTALL (4) PHOTO SKY PANELS 2' SOUTH.
D.12	REMOVE INTERIOR LAYER OF GYP TO INSTALL LEAD SHIELDING



1 / D2.01 LEVEL 3 - DEMO PLAN - NUC MED
1/4" = 1'-0"

CLARK KJOS ARCHITECTS, LLC
621 SW Alder St., Suite 700
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11095 REGISTERED ARCHITECT
SCOTT D. COMBS
STATE OF WASHINGTON

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital

401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.09.21

REVISIONS:

CONSTRUCTION DOCUMENTS

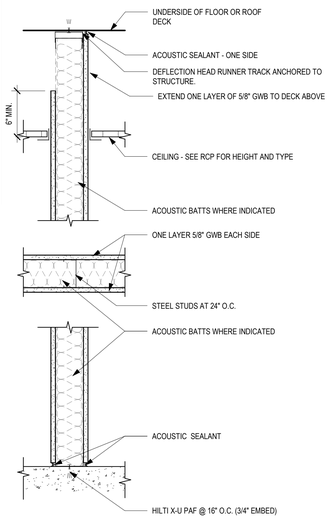
DEMOLITION PLAN AND RCP

D2.01

PROJECT NO.: 20046

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

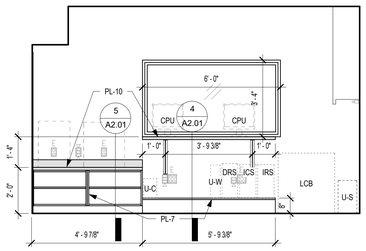
Building	Planning
Engineering	Public Works
Fire	Traffic



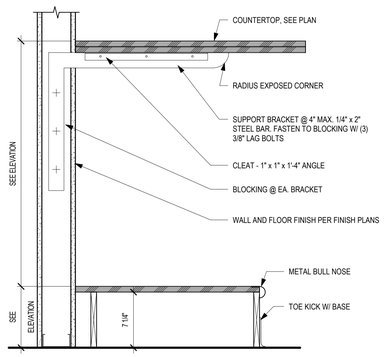
GA FILE NO WP 1072 (GENERIC)
STC 45-49 WITH ACOUSTIC BATTS

STUD SIZE
P33 = 3 5/8"
P36 = 6"

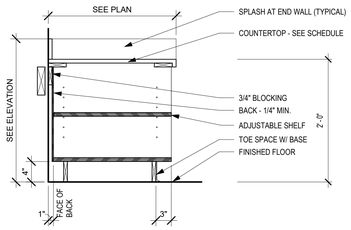
P3 NON-RATED PARTITION TYPE 3



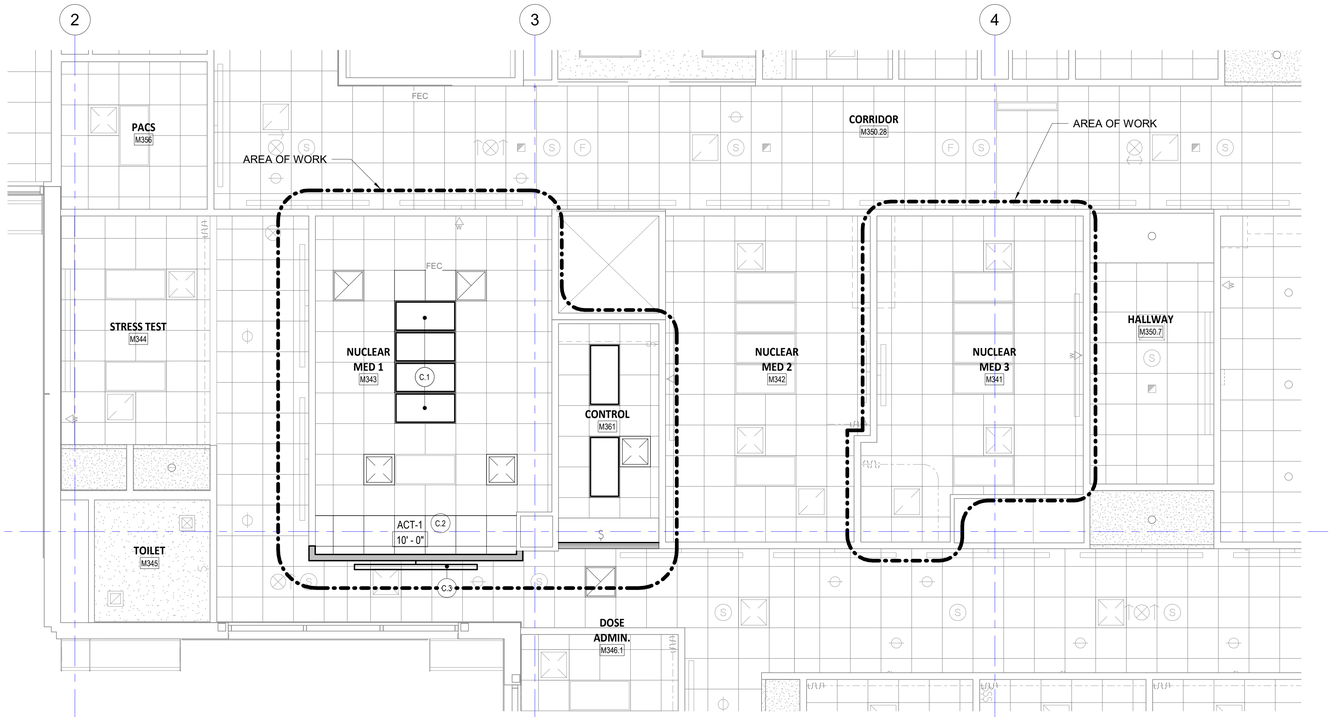
3 A2.01 CONTROL-W
3/8" = 1'-0"



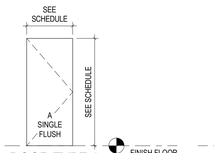
4 A2.01 BC - HIDDEN SUPPORT BRACKETS
1 1/2" = 1'-0"



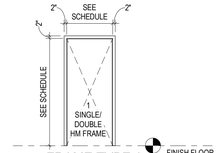
5 A2.01 BC - OPEN SHELVES
1" = 1'-0"



1 A2.01 REFLECTED CEILING PLAN - NUCLEAR MEDICINE - CT ROOM EQUIPMENT UPDATES
1/4" = 1'-0"



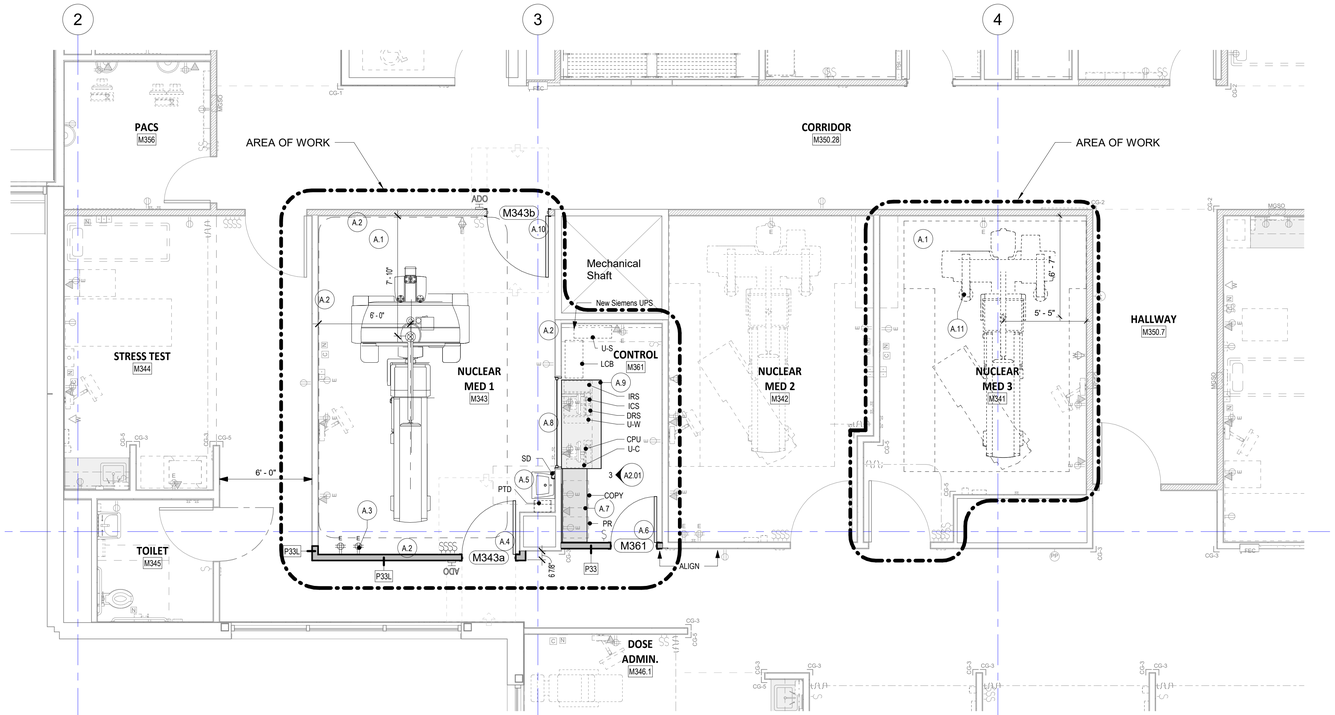
DOOR TYPE 1 — FINISH FLOOR
1/4" = 1'-0"



FRAME TYPE A — FINISH FLOOR
1/4" = 1'-0"

DOOR SCHEDULE

MARK	ROOM NUMBER	ROOM NAME	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HDWR	COMMENTS
M343a	M343	NUCLEAR MED 1	3' - 6"	7' - 0"	1	SC	A	HM		A.4 .79MM LEAD SHIELDING, AUTO-OPENER
M343b	M343	NUCLEAR MED 1	4' - 0"	7' - 0"	1	SC	A	HM		A.10 .79MM LEAD SHIELDING, AUTO-OPENER
M361	M361	CONTROL	3' - 0"	7' - 0"	1	SC	A	HM		A.6



2 A2.01 LEVEL 3 - FLOOR PLAN - NUC MED
1/4" = 1'-0"

GENERAL NOTES - CEILING

1. ALL CEILING HEIGHTS ARE RELATIVE TO TOP OF SLAB OR SUBFLOOR, U.N.O.
2. SEE ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF FIXTURES AND EQUIPMENT.
3. FIELD VERIFY EXISTING CEILING LAYOUTS PRIOR TO ANY WORK.
4. SUSPENSION SYSTEMS FOR NEW AND EXISTING SUSPENDED GYPSUM BOARD CEILINGS SHALL BE MODIFIED TO FRAME AROUND CEILING INSTALLED ITEMS. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
5. INSTALL BLOCKING AND BACKING FOR WINDOW COVERING TRACKS.
6. REMOVE EXISTING CEILINGS WHERE NEW CEILINGS ARE SHOWN TO BE INSTALLED.
7. FOR TOP OF WALL DETAILS AND HEIGHT OF GYP BOARD ON WALLS, SEE PLANS, PARTITION TYPES, AND DETAILS.
8. RECESSED FIXTURES ARE TO MAINTAIN RATINGS WHERE LOCATED IN RATED CEILING ASSEMBLIES.

LEGEND

- 1t / 9'-0" — CEILING MATERIAL; **CEILING TAG**; CEILING HEIGHT
- GYPSUM BOARD CEILING
- ACT-1: "2x2"
- 2 x 4 DROP-IN FIXTURE
- RECESSED DOWNLIGHT
- PENDANT LIGHT
- WALL MOUNTED LINEAR DIRECT / INDIRECT
- SUSPENDED LINEAR LIGHTING
- UNDERCABINET LIGHT

KEYNOTES

A.1	NEW (SV-1) FLOORING, (P-1) PAINT, AND (WP-1) WALL PROTECTION THROUGHOUT
A.2	NEW .79MM LEAD SHIELDING ON THIS WALL
A.3	EXISTING POWER AND DATA TO BE RELOCATED TO NEW LOCATION
A.4	NEW LEAD LINED 42" DOOR WITH NEW FRAME AND HARDWARE
A.5	NEW WALL MOUNTED HANDWASH SINK AND PLUMBING CONNECTION
A.6	NEW PARTITION AND DOOR WITH HM FRAME
A.7	NEW PL-1 COUNTER, 24" AFF
A.8	.79MM LEAD EQUIVALENT SHIELDED WINDOW WITH HM FRAME
A.9	NEW COUNTER WITH SHELF BENEATH FOR EQUIPMENT PLACEMENT
A.10	NEW LEAD LINED 48" x 84" DOOR WITH HM FRAME IN EXISTING OPENING
A.11	RELOCATED MACHINE FROM NUC MED #1
C.1	RELOCATED PHOTO SKY PANELS
C.2	EXTEND ACT CEILING INTO NEW PORTION OF THE ROOM
C.3	REINSTALL EXISTING LIGHT ON NEW WALL

EQUIPMENT LEGEND

COPY	COPY MACHINE
CPU	COMPUTER
DRS	DEDICATED RECONSTRUCTION SYSTEM
ICS	IMAGE CONSTRUCTION SYSTEM
IRS	IMAGE RECONSTRUCTION SYSTEM
LCB	LINE CONNECTION BOX
PR	PRINTER
PTD	PAPER TOWEL DISPENSER
SD	SOAP DISPENSER
U-C	UPS, CAMERA
U-S	UPS, SYMBIA CAMERA
U-W	UPS, WORKPLACE

GENERAL NOTES - FLOORPLAN

1. SEE PARTITION TYPES SHEET FOR LEGEND AND CONSTRUCTION ASSEMBLIES.
2. ALL DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED.
3. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
4. ALL WALLS TO BE P13 U.N.O.
5. INTEGRAL BASE TO BE INSTALLED IN ALL HOUSEKEEPING CLOSETS, SOILED HOLD ROOMS, AND TOILET ROOMS (UNLESS NOTED OTHERWISE).

LEGEND

- EXISTING PARTITION
- NEW PARTITION
- CR — CARD READER
- CG — CORNER GUARD

WALL TAG

STUD SIZE — A3#X — MODIFIER
WALL TYPE

MODIFIERS

A =	PROVIDE CONTINUOUS ACOUSTIC BATTS
B =	PROVIDE ABUSE RESISTANT GWB
C =	PROVIDE 5/8" RESILIENT FURRING CHANNELS OVER FRAMING ON ONE SIDE
L =	PROVIDE LEAD LINED GYPSUM BOARD- EXTEND 7'-0" AFF MIN. SEE PHYSICIST REPORT
T =	PROVIDE CEMENTITIOUS BACKER BOARD AT TILE FINISHES
S=	SHEAR WALL FRAME PER STRUCTURAL

ASSEMBLIES

GA WP 1072 (Generic)
One layer 5/8" type X gypsum wallboard or gypsum veneer applied parallel or at right angles to each side of 3-5/8" steel studs 24" O.C.. with 1" type S drywall screws 8" O.C.. at vertical joints and 12" O.C.. at floor and ceiling runners and intermediate studs.
Joints staggered 24" on each side and on opposite sides. Sound tested with 3 1/2" glass fiber friction fit in stud space.

GA WP 1052 (Generic)
One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8" steel studs 24" O.C.. with 1" type S drywall screws 8" O.C.. at vertical joints and 12" O.C.. at wall perimeter and intermediate studs. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to ONE SIDE with 1 5/8" Type S drywall screws at 12" O.C..
Joints staggered 24" each layer and side. Sound tested with 3 1/2" glass fiber friction fit in stud space.

GA WP 1522 (Generic)
Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8" steel studs 24" O.C.. with 1" type S drywall screws. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side with 1 5/8" Type S drywall screws at 12" O.C.

Joints staggered 24" each layer and side. Sound tested with 3 1/2" glass fiber friction fit in stud space.

GA WP 7051 / UL DESIGN U428 (Proprietary)
One layer 1" x 24" proprietary type X gypsum panels inserted between 2 1/2" floor and ceiling J runners with 1" section of 2 1/2" steel or C-H or C-T studs between panels.
OPPOSITE SIDE: Base layer 1/2" proprietary type X gypsum wallboard applied at right angles to studs with 1" type S drywall screws 24" O.C.. Face layer 1/2" type proprietary type X gypsum wallboard applied parallel to studs with 1 5/8" Type S drywall screws at 12" O.C..
Sound tested with 1 7/8" glass fiber friction fit in stud space.

CLARK KJOS ARCHITECTS, LLC
621 SW Alder St., Suite 700
Portland, OR 97205
Phone: 503/224-4848

11095 REGISTERED ARCHITECT
SCOTT N. COMBS
STATE OF WASHINGTON

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

CONSTRUCTION DOCUMENTS

ISSUE DATE: 07.09.21
REVISIONS:

ENLARGED FLOOR AND REFLECTED CEILING PLANS-LEVEL 3 NUCLEAR MEDICINE

A2.01

PROJECT NO.: 20046

MECHANICAL SYMBOL SCHEDULE

GENERAL LEGEND

	MATCH LINE
(2) / M3.1	SECTION DESIGNATION / SECTION NUMBER / DRAWING NUMBER
(1) / M2.1	DETAIL DESIGNATION / DETAIL NUMBER / DRAWING NUMBER
AHV / 1-1	EQUIPMENT DESIGNATION / EQUIPMENT TYPE / EQUIPMENT NUMBER
1-HVC-1	EQUIPMENT DESIGNATION REQUIRING ELECTRICAL CONNECTION (FLR-EQUIPMENT-NO)
1-HVC-1	EQUIPMENT DESIGNATION NOT REQUIRING ELECTRICAL CONNECTION (FLR-EQUIPMENT-NO)
SD-1 / 550	AIR OUTLET/ INLET DEVICE DESIGNATION / SD-1 12X12 / 550 / DEVICE FACE SIZE (OPTIONAL IF NOT GIVEN REFER) TO SCHEDULE) / AIRFLOW (CFM)
	POINT OF CONNECTION, NEW WORK TO EXISTING WORK
	POINT OF DISCONNECTION
	NEW WORK
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED

AIR SYSTEMS LEGEND

	SLOPING RISE OR DROP IN RECTANGULAR DUCTWORK
	SLOPING RISE OR DROP IN ROUND DUCTWORK
18x12 / 18x12	RECTANGULAR DUCT, SIZE BASED ON CLEAR INSIDE DIMENSIONS, FIRST FIGURE INDICATES PLAN SIZE
18ø / 18ø	ROUND DUCT, DIAMETER SIZE BASED ON CLEAR INSIDE DIMENSIONS
24x10ø / 24x10ø	FLAT OVAL DUCT, SIZE BASED ON CLEAR INSIDE DIMENSIONS, FIRST FIGURE INDICATES PLAN SIZE
18x12 / 18x12	ACOUSTIC LINING IN DUCT (SIZE NOTED INDICATES INSIDE CLEAR DIMENSIONS)
	FLEXIBLE CONNECTION IN DUCT
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER IN DUCT
	MANUAL VOLUME DAMPER IN DUCT WITH REMOTE REGULATOR
BDD / BDD	BACK DRAFT DAMPER
SDG / SDG	SLIDE GATE DAMPER
	MOTORIZED DAMPER IN DUCT
	SUPPLY DUCT TURNING UP. (IN ORDER SHOWN. RECTANGULAR, FLAT OVAL & ROUND)
	SUPPLY DUCT TURNING DOWN. (IN ORDER SHOWN. RECTANGULAR, FLAT OVAL & ROUND)
	RETURN DUCT TURNING UP. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	RETURN DUCT TURNING DOWN. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	EXHAUST DUCT TURNING DOWN. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	EXHAUST DUCT TURNING UP. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	DUCT ACCESS DOOR
TV	MITERED ELBOW WITH TURNING VANES
	RADIUS ELBOW, R/D=1.5 UNLESS NOTED OTHERWISE
8x12 / 20x12 / 18x12 / 8x12 / 20x12 / 12x12	DUCT SPLIT WITH SPLIT SIZE

AIR SYSTEMS LEGEND

	BRANCH TAKEOFF, WITH BRANCH VOLUME DAMPER (EXCEPT WHERE SPECIFICALLY NOTED THEY ARE NOT REQUIRED)
FD / SD / FSD / FD / SD / FSD	SHOWN IN ORDER (LEFT TO RIGHT): FIRE DAMPER (FD), SMOKE DAMPER (SD) & COMBINATION FIRE SMOKE DAMPER (FSD)
FSD, SD	VERTICAL COMBINATION FIRE AND SMOKE (FSD) OR SMOKE (SD) DAMPER WITH ACTUATOR (SUPPLY DUCT SHOWN)
FD	VERTICAL FIRE (FD) DAMPER (SUPPLY DUCT SHOWN)
	DUCT MOUNTED COIL
	CEILING SUPPLY DIFFUSER
	CEILING RETURN REGISTER OR GRILLE
	CEILING EXHAUST REGISTER OR GRILLE
	ROUND DIFFUSER
	LINEAR DIFFUSER (FLOW ARROW SHOWN ONLY IF AIRFLOW IS ONE DIRECTIONAL)
	INDICATES FORCED AIRFLOW (EG: SUPPLY GRILLE DISCHARGE)
	INDICATES INDUCED AIRFLOW (EG: EXHAUST GRILLE INLET)
	SUPPLY REGISTER OR GRILLE
	RETURN OR EXHAUST REGISTER OR GRILLE
SO / SO	SCREENED RETURN OR EXHAUST AIR OPENING

CONTROL SYSTEM LEGEND

TAG	BAS CONTRACTOR PROVIDED DCC POINT AND HARDWARE
TAG	CONTROL DEVICE PROVIDED BY ELECTRICAL CONTRACTOR BUT INTERFACED TO DDC SYSTEM BY BAS CONTRACTOR
TAG	BAS CONTRACTOR INTERFACE TO EQUIPMENT MANUFACTURER'S HARDWARE. HARD-WIRED UNLESS NOTED OTHERWISE
TAG	LOCAL CONTROL POINT (NO BAS INTERFACE)
H / C	HEATING COIL
C / C	COOLING COIL
	AIR MEASURING UNIT (PROVIDE DUCT ACCESS DOOR UPSTREAM AND DOWNSTREAM)
XX	2-WAY MODULATING CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: PI=PRESSURE INDEPENDENT)
XX	2-WAY 2-POSITION CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: BF=BUTTERFLY VALVE)
XX	3-WAY MODULATING CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: PI=PRESSURE INDEPENDENT)
XX	3-WAY 2-POSITION CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: BF=BUTTERFLY VALVE)
CP	2-WAY MODULATING CHARACTERIZED PORT BALL VALVE
	SOLENOID VALVE
M	MOTORIZED DAMPER (PARALLEL BLADE)
M	MOTORIZED DAMPER (OPPOSED BLADE)
T	TEMPERATURE SENSOR
T / AVG	TEMPERATURE SENSOR – AVERAGING
P	PRESSURE SENSOR
H	HUMIDIFIER
TU-01	ROOM SENSOR OR THERMOSTAT (WITH ZONE OR EQUIPMENT DESIGNATION WERE APPLICABLE)
	ROOM SENSOR OR THERMOSTAT WITH LEADER TO RELATED EQUIPMENT

PIPE SYSTEMS LEGEND

	ARROW INDICATES DIRECTION OF FLOW
UP / DN	SLOPE PIPE UP OR DOWN (DN) AS NOTED
	TOP PIPE CONNECTION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	PUMP (FOR DIAGRAMMATIC)
	PIPING FLEXIBLE CONNECTION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	STOP CHECK VALVE
	LUBRICATED PLUG VALVE
	CALIBRATED FLOW BALANCE VALVE
	FLOW LIMITING VALVE
	BALL VALVE
	HOSE END BALL VALVE WITH CAP AND CHAIN
	BUTTERFLY VALVE
	ANGLE VALVE
	2-WAY MODULATING CONTROL VALVE
	2-WAY 2-POSITION CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	3-WAY 2-POSITION CONTROL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	THERMOMETER
TAV	THERMOSTATIC AIR VENT (AIR SYSTEMS)
	PRESSURE GAUGE AND GAUGE COCK
	PRESSURE GAUGE, STEAM SYSTEMS
	PRESSURE GAUGE, HYDRONIC SYSTEMS
VB	VACUUM BREAKER
FS	FLOW SWITCH
FM	FLOW METER (INSTANTANEOUS FLOW)
M	TOTALIZING FLOW METER
	TEMPERATURE-PRESSURE TEST FITTING
	PIPE ANCHOR
	PIPE GUIDE
	PIPE SLIDE
	PIPE EXPANSION JOINT
	CHANGE IN PIPE SIZE, CONCENTRIC REDUCER UNLESS SPECIFIED DIFFERENTLY
	ECCENTRIC REDUCER
	UNION
	CAPPED PIPE
	WYE TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	WYE TYPE STRAINER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	SIGHT GLASS
	BLIND FLANGE
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN

GENERAL NOTES

1. THE ENTIRE MECHANICAL SYSTEMS, INSTALLATION AND TESTING MUST BE IN COMPLIANCE TO THE LIFE SAFETY REQUIREMENTS OF CALIFORNIA BUILDING CODE 1995 EDITION CHAPTER 5.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
4. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING STATE AND LOCAL FIRE AND BUILDING CODES, & NFPA CODE 101/99.
5. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL FRAMING, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS.
6. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATIONS OF PIPING OR DUCTWORK.
7. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT DIFFUSER LOCATIONS AND FINISHED CEILING.
8. COORDINATE DUCTWORK, PIPING WITH STRUCTURAL DRAWINGS, LIGHTING AND SPRINKLER SYSTEM. PROVIDE TRANSITIONS AS REQUIRED.
9. COORDINATE LOCATIONS OF ACCESS DOORS WITH F.D.'S, V.D.'S, SD, ETC. THE OPENING SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND RESETTING OF THE DEVICE.
10. CONTRACTOR TO COORDINATE WITH ARCHITECTS CEILING ACCESS PANELS FOR ALL FIRE, SMOKE AND VOLUME DAMPERS IN INACCESSIBLE CEILING AS REQUIRED.
11. PROVIDE ALL CONCRETE PADS, SPECIAL SUPPORTS AND ANCHORING FOR ALL MECHANICAL EQUIPMENT REQUIRING SUCH.
12. ALL DUCT DIMENSIONS ARE AIRSTREAM DIMENSIONS.
13. ALL MECHANICAL RELATED PENETRATIONS THROUGH ROOF SHALL HAVE CURBS (SUPPLIED BY M.C.) AND SHALL BE INSTALLED BY ROOFING CONTRACTOR TO ENSURE A PROPER WATERPROOF SEAL.
14. MECHANICAL CONTRACTOR TO PROVIDE SHIM TO LEVEL ALL EQUIPMENT ON THE FLOOR.
15. REFER TO ARCHITECTURAL DRAWINGS FOR INTAKE AND RELIEF LOUVERS.
16. SEAL ALL FIRE RATED PENETRATIONS WITH FIRE RETARDANT MATERIAL AS SPECIFIED.
17. THERMOSTAT AND HUMIDISTAT APPEARANCE AND LOCATION SHALL BE COORDINATED WITH ARCHITECTS/OWNER.
18. PROVIDE REMOTE OPERATORS FOR ALL VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILING.
19. PROVIDE OPERATING HANDLES FOR ALL VALVE AND COCKS WITHOUT INTEGRAL OPERATORS.
20. IN MECHANICAL OR EQUIPMENT ROOMS, INSTALL ALL VALVES ACCESSIBLE FROM FLOOR LEVEL WHERE POSSIBLE. PROVIDE GUIDED CHAIN OPERATIONS, UNLESS OTHERWISE NOTED, ON ALL VALVES IN MECHANICAL AND EQUIPMENT ROOMS INSTALLED OVER 7' ABOVE FLOOR.
21. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE SHOWN UNLESS OTHERWISE NOTED.
22. INSTALL SWING CHECK VALVES IN THE HORIZONTAL POSITION.
23. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
24. PROVIDE 3/8" BLOW-OFF VALVE AND 1/2" IPS TO HOSE THREAD ADAPTER ON ALL STRAINERS.
25. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL HOT WATER SUPPLY/RETURN TAKE-OFFS TO REHEAT COIL IN VAV BOXES SHALL BE 3/4" DIAMETER.
26. ALL DUCT HEATING COILS SHALL HAVE DUCT ACCESS PANEL.
27. ALL BRANCH DUCTS TO AIR OUTLET SHALL BE EQUIPPED WITH DUCT VOLUME DAMPER.
28. PROVIDE UNIONS OR FLANGES ON EACH SIDE OF CONTROL VALVES AND PUMPS. EVERY PIPING ASSEMBLY SHALL BE MADE SO AS TO MAKE EVERY VALVE AND PIECE OF EQUIPMENT EASILY REMOVABLE. WELDED OR SOLDER-JOINT VALVES ARE EXCEPTED FROM THIS REQUIREMENT.
29. CEILING DIFFUSER SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
30. PROVIDE LOCAL INDICATOR LIGHTS FOR ALL SMOKE/FIRE DAMPERS. LIGHT IS ACTIVATED WHEN DAMPER IS IN CLOSED POSITION.
31. ALL DRAIN CONNECTIONS FROM MECHANICAL EQUIPMENT SHALL BE PIPED TO SPILL DIRECTLY INTO NEAREST FLOOR DRAIN.
32. PROVIDE ALL GREASE DUCTS WITH ADEQUATE CLEANOUT OPENING IN ACCORDANCE WITH UMC.
33. ALL LOW POINTS OF ALL GREASE DUCTS SHALL HAVE ADEQUATE CAPACITY GREASE TANK (COLLECTORS) OR DRAIN.
34. PROVIDE 1" AIR GAP AT ALL DRAIN CONNECTIONS.
35. ALL PIPING AND DUCTWORK PASSING THROUGH SEPARATION JOINTS USED AS BUILDING SEISMIC SEPARATIONS SHALL HAVE FLEXIBLE CONNECTIONS TO COMPENSATE FOR SEISMIC MOVEMENT AS REQUIRED. PROVIDE HANGERS ON EACH SIDE OF FLEXIBLE CONNECTION.
36. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. AT THE CONTRACTOR'S OPTION HE MAY BRACE UNBRACED DUCTS, PIPES, CONDUITS, ETC. IN A MANNER CONFORMING TO REQUIREMENTS ESTABLISHED BY THE MECHANICAL AND ELECTRICAL CONTRACT DOCUMENTS, OR THE CONTRACTOR MAY INSTALL TRAPEZE SUPPORTS TO RECEIVE THE CEILING HANGING AND BRACING WIRES. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK AND RESPONSIBILITY FOR ACCOMMODATING SUCH WORK.
37. PROVIDE BALANCING DAMPERS AT EACH SUPPLY – EXHAUST BRANCH TAKE-OFF.
38. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION.
39. REFER TO EQUIPMENT ANCHORAGE DRAWINGS, FOR SEISMIC BRACING REQUIREMENTS FOR ALL INSTALLED MECHANICAL EQUIPMENT, DUCTWORK, PIPING AND OTHER ASSEMBLIES. PIPES, CONDUITS AND DUCTS SHALL HAVE A MINIMUM OF TWO TRAVERSE AND ONE LONGITUDINAL SEISMIC RESTRAINTS IN EVERY RUN.
40. AT CONTRACTOR DISCRETION HE MAY SUBSTITUTE RECTANGULAR DUCTWORK 8" AND LESS TO ROUND DUCTWORK.
41. ALL DUCT ELBOWS BEFORE VAV BOXES AND REHEAT COILS SHALL BE OF FULL RADIUS HARD CONNECTION ELBOWS.
42. ALL PIPING AND DUCTWORK TO BE FLEXIBLE CONNECTED TO PUMPS, COILS ETC.
43. SEE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR EQUIPMENT SUPPORTS AND ROOF OPENINGS.
44. ALL PIPING IN MECHANICAL ROOMS TO BE HUNG WITH SPRING ISOLATORS WITH 1/2" STATIC DEFLECTION AT SPECIFIED SPACING FOR HORIZONTAL PIPING, VERTICAL DROPS AND ALL ELBOWS.
45. PROVIDE ELBOW SUPPORTS AT ALL PIPE CONNECTIONS TO EQUIPMENT.
46. PROVIDE MINIMUM 4'-0" ACOUSTICALLY LINED DUCTWORK AT DISCHARGE OF EACH TERMINAL BOX, OR REHEAT COILS AS INDICATED ON FLOOR PLANS.
47. FOR EXACT CONCRETE PAD/CURB SIZES COORDINATE WITH APPROVED EQUIPMENT AND WITH STRUCTURAL DOCUMENTS.
48. SEE ARCHITECTURAL DOCUMENTS FOR PAINTING OF ALL EXPOSED DUCTWORK, PIPING, AIR OUTLET AND FIXTURE TRIM. ALL DUCTWORK AND PIPING ON MECHANICAL EQUIPMENT LEVEL (ROOF) IS TO BE PAINTED IN COMPLIANCE WITH DIVISION 15 AND DIVISION 9.
49. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE.
50. ALL DUCT SMOKE DETECTORS TO BE PROVIDED AND WIRED BY DIVISION 16, INSTALLED BY DIVISION 15. DETECTOR SAMPLING TUBES TO HAVE AN ACCESS DOOR MAKING SAMPLING TUBES READILY ACCESSIBLE.
51. UNLESS SPECIFICALLY SPECIFIED OR SHOWN OTHERWISE ALL CONSTRUCTION IS TO CONFORM TO SMACNA HVAC CONSTRUCTION STANDARDS AS A MINIMUM REQUIREMENT.
52. FIRE DAMPERS AND FIRE SMOKE DAMPERS ARE TO BE INSTALLED IN RATED PORTION OF THE ASSEMBLIES IN WHICH THEY OCCUR.
53. REFER TO ARCHITECTURAL SPECIFICATION FOR APPROVED FIRESTOPPING SYSTEM.
54. ALL CONTROL PANELS SHALL BE MOUNTED NO LESS THAN 4 FEET ABOVE FURNISHED FLOOR.
55. ALL PIPING NOTED TO BE CAPPED FOR FUTURE EXTENSION SHALL BE PROVIDED WITH VALVE NEAR CAP TO PERMIT FUTURE CONNECTION OF THE SYSTEM.
56. ALL SUPPORT ABOVE ROOF SHALL BE WEATHER PROTECTED BY MEAN PAINTING.
57. ALL PLENUM BOXES, DUCTWORK ETC TO BE LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE TESTED FOR AIRTIGHT CONSTRUCTION BEFORE INSTALLATION (TYPICAL).
58. ALL PIPING TO BE LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE LEAK TESTED AND INSULATED WITH VAPOR BARRIER SEAL BEFORE INSTALLATION (TYPICAL).
59. ALL FIRE SMOKE DAMPERS TO BE EQUIPPED WITH INTEGRAL SMOKE DETECTOR, UNLESS OTHERWISE NOTED. INSTALL PER MANUFACTURER'S INSTALLATION PROCEDURES.

SEISMIC RESTRAINTS:

1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

GENERAL CONDITION

1. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
2. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED OPERATING EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3. SCHEDULE ALL WORK ACCESS AND STORAGE WITH THE FACILITY ADMINISTRATOR.
4. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA AND KEEP DIRT AND DUST TO A MINIMUM.
5. ALL REMOVED ITEMS DEEMED TO HAVE VALUE BY THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AT THE SITE AS DIRECTED. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A LEGAL MANNER.
6. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY AND PERFORMANCE.
7. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
8. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
9. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

DRAWING INDEX

ABBREVIATIONS

ABV	ABOVE	HWR	HEATING WATER RETURN
ACU	AIR CONDITIONING UNIT	HWS	HEATING WATER SUPPLY
ACC	AIR COOLED CHILLER	HX	HEAT EXCHANGER
AD	ACCESS DOOR	IAC	INSTRUMENT AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR	IAS	INSTRUMENT AIR SUPPLY
AFMS	AIR FLOW MEASURING STATION	ID	INSIDE DIMENSION
AHU	AIR HANDLING UNIT	IN	INCHES
AL	ACOUSTICAL LINING	INV	INVERT ELEVATION
ALT	ALTITUDE	KW	KILOWATT
ALD	AUTOMATIC LOUVER DAMPER	KWH	KILOWATT HOUR
APPROX	APPROXIMATE	LAT	LEAVING AIR TEMP.
ARCH	ARCHITECTURAL	LBS	POUNDS
AS	AIR SEPARATOR	LD	LINEAR DIFFUSER
AVG	AVERAGE	LPR	LOW PRESSURE STEAM RETURN
B	BOILER	LPS	LOW PRESSURE STEAM SUPPLY
BD	BLOWDOWN	LVR	LOUVER
BDD	BACK DRAFT DAMPER	LWT	LEAVING WATER TEMP.
BF	BELOW FLOOR	M	MAIN AIR
BFW	BOILER FEEDWATER	(M)	MAGNETIC GAUGE
BG	BELOW GRADE	MA	MAKE UP AIR
BHP	BRAKE HORSEPOWER	MAT	MIXED AIR TEMPERATURE
BO	BLANK OFF	MAX	MAXIMUM
BOD	BOTTOM OF DUCT	MBD	MANUAL BALANCING DAMPER
BOP	BOTTOM OF PIPE	MBH	THOUSAND BTU/HOUR
BOR	BOTTOM OF RACK	MCC	MOTOR CONTROL CENTER
BTU	BRITISH THERMAL UNIT	MFG	MANUFACTURER
BTUH	BTU PER HOUR	MIN	MINIMUM
C	COMMON	MMS	MANUAL MOTOR START
CA	COMPRESSED AIR	(N)	NEW
CAV	CONSTANT VOLUME	N/A	NOT APPLICABLE
CC	COOLING COIL	NC	NORMALLY CLOSED
CD	CEILING DIFFUSER	NIC	NOT IN CONTRACT
CE	CEILING EXHAUST	NK	NECK
CFF	CAP FOR FUTURE	NO	NORMALLY OPEN OR NUMBER
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CG	CEILING GRILLE	OBD	OPPOSED BLADE DAMPER
CHS	CHILLED WATER	OD	OUTSIDE DIMENSION
CHR	CHILLED WATER RETURN	ORD	OVERFLOW ROOF DRAIN
℄	CENTERLINE	△P	PRESSURE DROP OR DIFFERENTIAL
CMPR	COMPRESSOR		
CO	CLEAN OUT (DOOR)	P	PUMP
COEFF	COEFFICIENT	PC	PUMPED CONDENSATE
COND	CONDENSATE	PG	PIPE GUIDE
CONN	CONNECTION, CONNECT	PH	PHASE (ELECTRICAL)
CONT	CONTINUATION	PHC	PREHEAT COIL
COP	COEFF. OF PERFORMANCE	POC	POINT OF CONNECTION
COTG	CLEAN OUT TO GRADE	PRESS	PRESSURE
CP	CONDENSATE PUMP	PSI	POUNDS/SQUARE INCH
CR	CEILING REGISTER	PSIG	POUNDS PER SQUARE INCH GAUGE
C_V	COEFF., VALVE FLOW		
CWS	COND. WATER SUPPLY	R	RISE
CWR	COND. WATER RETURN	RA	RETURN AIR
CT	COOLING TOWER	RAD	RETURN AIR DUCT
D	DROP OR INDIRECT DRAIN	RCVR	RECEIVER
DB	DRY BULB	RD	ROOF DRAIN
DDC	DIRECT DIGITAL CONTROL	RF	RETURN FAN
DEG. F	DEGREES FAHRENHEIT	RH	RELATIVE HUMIDITY
DENS	DENSITY	RHC	REHEAT COIL
DIA	DIAMETER	RO	REVERSE OSMOSIS
DN	DOWN	RPM	REVOLUTIONS/MINUTE
DRN	DRAIN	RPBFP	REDUCED PRESS. BACKFLOW PREV.
DWG	DRAWING		
(E)	EXISTING	S	SANITARY SEWER
EA	EXHAUST AIR	SA	SUPPLY AIR
EAD	EXHAUST AIR DUCT OR DAMPER	SAD	SUPPLY AIR DUCT
EAT	ENTERING AIR TEMP.	SEC	SECOND
EDB	ENTERING DRY BULB TEMP.	SF	SUPPLY FAN
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFF	EFFICIENCY	SPEC	SPECIFICATION
ET	EXPANSION TANK	SQ	SQUARE
EWB	ENTERING WET BULB	SS	STAINLESS STEEL
EWT	ENTERING WATER TEMP.	STD	STANDARD
EXH	EXHAUST	STM	STEAM
EXP	EXPANSION	SYM	SYMBOL
°F	DEGREES FAHRENHEIT	SYS	SYSTEM
F	FILTER	△T	TEMPERATURE DIFF.
(F)	FUTURE	TEMP	TEMPERATURE
FC	FLEXIBLE CONNECTION	TOP	TOP OF PIPE
FCU	FAN COIL UNIT	TOR	TOP OF RACK
FD	FIRE DAMPER OR FLOOR DRAIN	TOT	TOTAL
FLA	FULL LOAD AMPS	TT	TEMP. TRANSMITTER
FLR	FLOOR	TYP	TYPICAL
FPI	FINS PER INCH	U.C.	UNDERCUT
FPM	FEET PER MINUTE	UON	UNLESS OTHERWISE NOTED
FPS	FEET PER SECOND	V	VOLT
FS	FLOOR SINK	VA	VALVE
FT	FEET	VAV	VARIABLE AIR VOLUME
FV	FACE VELOCITY	VERT	VERTICAL
GA	GAGE OR GAUGE	VFD	VARIABLE FREQ. DRIVE
GPM	GALLONS PER MINUTE	VOL	VOLUME
GPH	GALLONS PER HOUR	VT	VENT, SANITARY
GSM	GALVANIZED SHEET METAL	VTR	VENT THRU ROOF
HC	HEATING COIL	VPE	VACUUM PUMP EXHAUST
HD	HEAD	W	WATTS
HGT	HEIGHT	WB	WET BULB
HOA	HAND, OFF, AUTO	W/O	WITHOUT
HP	HORSE POWER	WT	WEIGHT
HR	HOUR(S)	WTR	WATER
HT	HUMIDITY TRANSMITTER	WS	WALL SUPPLY
HTP	HEAT PUMP	WR	WALL RETURN
HVAC	HEATING, VENTILATING AND AIR CONDITIONING		

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CONSTRUCTION DOCUMENTS

MECHANICAL COVER SHEET

M001

PROJECT NO.: 20046

B-21-0829

2018 WASHINGTON STATE ENERGY CODE

1. MECHANICAL EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUE INDICATED IN TABLE C403.3.2(1)A THROUGH C403.3.2(1)C, C403.3.2(2), C403.3.2(3), C403.3.2(4), C403.3.2(5), C403.3.2(7), C403.3.2(8), C403.3.2(9), C403.3.2(10), C403.3.2(11), C403.3.2(12), C403.3.2.2 OF THE WSEC, AND AS INDICATED ON THE CONTRACT DOCUMENTS.

2. CALCULATION OF HEATING AND COOLING LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN ANSI/ASHRAE/ACCA STANDARD 183 OR BY AN APPROVED EQUIVALENT COMPUTATIONAL PROCEDURE PER THE REQUIREMENTS OF SECTION C403.1.2 OF THE WSEC.

3. HEATING AND COOLING EQUIPMENT FANS, HEATING AND COOLING CIRCULATION PUMPS, AND TERMINAL UNIT FANS SHALL CYCLE OFF AND TERMINAL UNIT PRIMARY COOLING AIR SHALL BE SHUT OFF WHEN THERE IS NO CALL FOR HEATING OR COOLING IN THE ZONE AS REQUIRED BY SECTION C403.3.5.2 OF THE WSEC.

4. HVAC SYSTEMS SHALL BE PROVIDED WITH THERMOSTATIC CONTROLS AS REQUIRED BY SECTIONS C403.4.1 THROUGH C403.4.11 OF THE WSEC.

5. WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, THE ZONE CONTROL SHALL BE CONFIGURED TO PREVENT THE HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT AND TO MAINTAIN A DEAD BAND IN ACCORDANCE WITH SECTION C403.4.1.2 AS REQUIRED BY SECTION C403.4.1.3 OF THE WSEC

6. AUTOMATIC START AND STOP CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM AS REQUIRED BY SECTION C403.4.2.3 OF THE WSEC.

7. EXHAUST SYSTEMS FOR ALL OCCUPANCIES OTHER THAN GROUP R SERVING SPACES WITHIN THE CONDITIONED ENVELOPE SHALL BE AS REQUIRED BY SECTION C403.4.2.4 OF THE WSEC.

8. FOR ALL OCCUPANCIES OTHER THAN GROUP R, TRANSFER FAN OR MIXING FAN SYSTEMS SERVING SPACES WITHIN THE CONDITIONED ENVELOPE SHALL BE CONTROLLED AS REQUIRED BY SECTION C403.4.2.5 OF THE WSEC.

9. DIRECT DIGITAL CONTROL (DDC) SYSTEMS SHALL BE REQUIRED AS SPECIFIED IN SECTIONS C403.4.11.1 THROUGH C403.4.11.3 OF THE WSEC.

10. MECHANICAL SYSTEMS SERVING MULTIPLE ZONES INCLUDING VARIABLE AIR VOLUME (VAV), SINGLE DUCT VARIABLE AIR VOLUME (VAV), DUAL DUCT AND MIXING VAV SYSTEMS SHALL HAVE ZONE CONTROLS AS REQUIRED BY SECTION C403.6.1 THROUGH C403.6.10 OF THE WSEC.

11. VENTILATION AND EXHAUST REQUIREMENTS IN ADDITION TO OTHER REQUIREMENTS OF SECTION C403 SHALL BE IN ACCORDANCE WITH SECTIONS C403.7.1 THROUGH C403.7.8 OF THE WSEC.

12. DUCTS, SHAFTS AND PLENUMS CONVEYING OUTDOOR AIR FROM THE EXTERIOR OF THE BUILDING TO THE MECHANICAL SYSTEM SHALL MEET ALL AIR LEAKAGE AND BUILDING ENVELOPE INSULATION REQUIREMENTS OF SECTION C402 OF THE WSEC, PLUS BUILDING ENVELOPE VAPOR CONTROL AS REQUIRED BY TABLE C403.10.1.1 OF THE WSEC.

13. OTHER SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES, AND WHERE LOCATED OUTSIDE THE BUILDING AS REQUIRED BY SECTION C403.10.1.2 AND TABLE C403.10.1.2 OF THE WSEC.

14. ALL DUCTWORK SHALL BE CONSTRUCTED AND SEALED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AS REQUIRED BY SECTION C403.10.2 OF THE WSEC. DUCTWORK STATIC PRESSURE AND SEAL CLASS:

WATER COLUMN	SEAL CLASS
LESS THAN OR EQUAL TO 2"	SEAL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS
GREATER THAN 2" LESS THAN 3"	IN ACCORDANCE WITH SECTION C403.10.1
EQUAL TO OR GREATER THAN 3"	IN ACCORDANCE WITH SECTION C403.10.1; DUCTS AND PLENUMS SHALL BE LEAK-TESTED IN ACCORDANCE WITH THE SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.

15. THE DOMESTIC HOT WATER SYSTEM SHALL BE INSTALLED SUCH THAT THE MAXIMUM LENGTH OF UNCIRCULATED HOT WATER PIPING SHALL NOT EXCEED THE VALUES LISTED IN TABLE C404.3.1. THE UNCIRCULATED PIPE IS THE SECTION THAT EXPERIENCES ZERO FLOW WHEN THE PLUMBING FIXTURE IS NOT IN USE.

16. HEATED-WATER CIRCULATING AND TEMPERATURE MAINTENANCE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.7 OF THE WSEC.

17. SERVICE WATER HEATING SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH SECTION C408.

18. METERS SHALL BE PROVIDED TO COLLECT ENERGY USE DATA FOR EACH END-USE CATEGORY AS REQUIRED BY SECTION C409.3 OF THE WSEC.

19. PROVIDE DEADBAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION C403.4.1.2 OF THE WSEC OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

20. HVAC SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK AND ALSO ACCOMPLISHING SETBACK OR SHUTDOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C403.4.2.1 THROUGH C403.4.2.5 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

21. HEATING AND COOLING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC START CONTROLS PER SECTION C403.4.2.3 OF THE WSEC.

22. PROVIDE BALANCING DAMPERS, TEMPERATURE AND PRESSURE TEST CONNECTIONS AND BALANCING VALVES IN ALL AIR OUTLETS/INLETS, BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2 OF THE WSEC AND AS INDICATED ON THE CONTRACT DOCUMENTS.

23. INDIVIDUAL ZONE TERMINAL UNITS AND HVAC SYSTEMS SERVING PORTIONS OF THE BUILDING HAVING LESS THAN 24-HOUR OPERATION OR DIFFERENT USES SHALL BE SHUT OFF OR SET BACK DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C403.4.2 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

24. RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6.1 OF THE WSEC. THE DRAWINGS SHALL INDICATE THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, GENERAL CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATES AS A MINIMUM.

25. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6 OF THE WSEC AND AS SPECIFIED.

26. HVAC SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2 AND OF THE WSEC AND AS SPECIFIED.

27. COMMISSIONING SHALL BE PROVIDED AND REPORT OF COMMISSIONING BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408 OF THE WSEC. COMMISSIONING SHALL CONSIST OF A COMMISSIONING PLAN, BALANCING, FUNCTIONAL PERFORMANCE TESTING, POST CONSTRUCTION COMMISSIONING, TRAINING, REPORTS, ACCEPTANCE AND COMMISSIONING COMPLIANCE CHECKLIST.

28. DUCTWORK DESIGNED TO OPERATE IN EXCESS OF 3 INCHES W.G. SHALL BE TESTED AS REQUIRED BY SECTION C403.10.2 OF THE WSEC. PROVIDE TEST REPORTS TO THE OWNER.

29. LOCATION OF LOW, MEDIUM AND HIGH PRESSURE DUCTWORK IS IDENTIFIED IN THE PROJECT MANUAL AS REQUIRED BY SECTION C403.2.8.3.1-3.

30. DOMESTIC HOT WATER PIPING SHALL NOT EXCEED THE FLOW RATE LIMITATIONS PER C404.3.

31. SUPPLY AIR TEMPERATURES SHALL BE AUTOMATICALLY RESET AS REQUIRED IN SECTION C403.6.4 OF THE WSEC OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

32. ALL PIPING SHALL BE INSULATED AS REQUIRED BY SECTION C403.10.3 AND TABLE C403.2.9 OF THE WSEC AND AS DESCRIBED IN THE PROJECT MANUAL.

TEMPERATURE °F	INSULATION CONDUCTIVITY CONDUCTIVITY BTU*IN/(H*FT²*°F)	MEAN RATING TEMP °F	PIPE DIAMETER <1"	1"TO<1-1/2"	1-1/2"TO<4"	4"TO8"	>8"
			INSULATION THICKNESS				
ABOVE 350	.32-.34	250	4.5	5.0	5.0	5.0	5.0
251-350	.29-.32	200	3.0	4.0	4.5	4.5	4.5
201-250	.27-.30	150	2.5	2.5	2.5	3.0	3.0
141-200	.25-.29	125	1.5	1.5	2.0	2.0	2.0
105-140	.21-.28	100	1.0	1.0	1.5	1.5	1.5
40-60	.21-.27	75	0.5	0.5	1.0	1.0	1.0
BELOW 40	.20-.26	75	0.5	1.0	1.0	1.0	1.5

NOTE: PIPING INSULATION MEETS OR EXCEEDS WSEC.

33. AUTOMATIC-CIRCULATING HOT WATER AND HEAT-TRACED SYSTEM PIPING SHALL BE INSULATED AS REQUIRED BY SECTION C404.6.

SYSTEM	INSULATION CONDUCTIVITY	INSULATION THICKNESS
AUTOMATIC CIRCULATING HOT WATER	< .27	1.0
HEAT TRACED SYSTEMS	< .27	1.0
SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS	< .27	0.5 (FIRST 8' OF PIPE)

TABLE C403.10.1.2
SUPPLY, RETURN, EXHAUST AND RELIEF AIR DUCTWORK INSULATION

DUCT SYSTEM	DUCT LOCATION AND USE	CLIMATE ZONE	MINIMUM INSTALLED DUCT INSULATION R-VALUE [1,2]	NOTES
SUPPLY AIR OR RETURN AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER) [3]	4C	R-8	SEE SECTION C403.10.1.2 FOR DETAILS
SUPPLY AIR OR RETURN AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER) [3]	5B	R-12	SEE SECTION C403.10.1.2 FOR DETAILS
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE (ENCLOSED BUT NOT IN THE BUILDING CONDITIONED ENVELOPE)	4C AND 5B	R-6	SEE SECTION C403.10.1.2 FOR DETAILS
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE WHERE THE DUCT CONVEYS AIR THAT IS WITHIN 15°F OF THE AIR TEMPERATURE OF THE SURROUNDING UNCONDITIONED SPACE	4C AND 5B	R-3.3	SEE IMC SECTION 603.12 FOR ADDITIONAL REQUIREMENTS FOR CONDENSATION CONTROL AT DUCTWORK
SUPPLY AIR OR RETURN AIR	WHERE LOCATED IN A BUILDING ENVELOPE ASSEMBLY	4C AND 5B	R-16	DUCT OR PLENUM IS SEPARATED FROM BUILDING ENVELOPE ASSEMBLY WITH THE MINIMUM INSULATION VALUE
SUPPLY AIR	WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55°F OR GREATER THAN 105°F	4C AND 5B	R-3.3	SEE SECTION C403.10.1.2 FOR DETAILS
SUPPLY AIR	WITHIN CONDITIONED SPACETHAT THE DUCT DIRECTLY SERVES WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55°F OR GREATER THAN 105°F	4C AND 5B	NONE	SEE SECTION C403.10.1.2 FOR DETAILS
SUPPLY AIR	WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS 55°F OR GREATER THAN 105°F OR LESS	4C AND 5B	NONE	
RETURN OR EXHAUST AIR	WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	4C	R-8	
RETURN OR EXHAUST AIR	WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	5B	R-16	
RELIEF OR EXHAUST AIR	CONDITIONED SPACE AND DOWNSTREAM	4C	R-16	

TABLE C404.3.1
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET) PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	0.33	61	50
5/16	0.5	41	50
3/8	0.75	31	50
1/2	1.5	21	43
5/8	2	11	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1 1/4	8	0.5	8
1 1/2	11	0.5	6
2 OR LARGER	18	0.5	4

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MECHANICAL ENERGY COMPLIANCE FORMS

M003

PROJECT NO.: 20046

4/9/2021 3:21:56 PM

B-21-0829

ASHRAE-170 COMPLIANCE ROOM AIR BALANCE

ROOM NO.	ROOM NAME	ROOM TYPE	LOCATION	AREA (FT2)	CLG HT (FT)	ROOM VOLUME (FT3)	AIR CHANGE/HR CODE (AC/HR)	AIR CHANGE/HR DESIGN (AC/HR)	CFM CODE	SUPPLY AIR CFM	EXHAUST AIR CFM	OUTSIDE AIR CHANGE/HR CODE (AC/HR)	OUTSIDE AIR CHANGE/HR DESIGN (AC/HR)	ROOM PRESS.	ROOM 100% EXH.	REMARKS
M343	NUCLEAR MED 1	DIAGNOSTIC AND IMAGING	3RD FLOOR	334	10.0	3340	6	10.8	334	400	600	2	7.2	NR	YES	
M341	NUCLEAR MED 3	DIAGNOSTIC AND IMAGING	3RD FLOOR	267	10.0	2670	6	9.0	267	300	400	2	6.7	NR	YES	

NOTES:

1. CFMS SHOWN ARE THE MINIMUM VALUES, CFM ON PLANS ARE SHOWN FOR EQUIPMENT LOADS.

TERMINAL UNITS

MARK		TP-M343	EP-M343	TP-M343.1	EP-M343.1	TP-M341	EP-M341
SERVES		NU. MED. 1	▭	CONTROL	▭	NU. MED. 3	▭
TYPE		VAV	EXHAUST	VAV	EXHAUST	VAV	EXHAUST
CAPACITY	AIRFLOW, MAX: CFM	1600	1800	725	325	900	1100
	AIRFLOW, MIN: CFM	400	600	125	0	300	400
	DAMPER PD, MAX: IN WG	0.3	0.3	0.3	0.3	0.3	0.3
UNIT	BRANCH SIDE DIA: IN [8]	18	18	16	12	16	18
	ROOM SIDE SIZE: WxH, IN	30x12	30x12	16	12	16	18
NOISE CRITERIA [1]	MAX NC: RADIATED	35	26	26	24	26	26
	MAX NC: DISCHARGE	20	20	21	20	21	20
HEATING COIL [3]	MAX CAPACITY: MBH [5]	51.8	▭	23.3	▭	33.7	▭
	MAX AIR PD: IN WG	0.2	▭	0.2	▭	0.2	▭
	EAT: F	55	▭	55	▭	55	▭
	LAT: F	85	▭	85	▭	90	▭
	MIN LWT: F	150	▭	150	▭	150	▭
	EWT: F	180	▭	180	▭	180	▭
	FLOW : GPM [5]	3.5	▭	1.0	▭	2.5	▭
	PIPING SIZE: IN [6]	1.0	▭	3/4	▭	3/4	▭
COILS (TP UNITS ONLY)	TITUS SIZE	14	▭	10	▭	12	▭
	ROWS	2	▭	2	▭	2	▭
	COIL SIZE HXW	17.5X20	▭	13X14	▭	15x16	▭
BASIS OF DESIGN	MANUFACTURER	PHOENIX	PHOENIX	PHOENIX	PHOENIX	PHOENIX	PHOENIX
	MODEL	THERIS 12	THERIS 12	THERIS 12	THERIS 8	THERIS 12	THERIS 14
	VALVE	DOUBLE	DOUBLE	SINGLE	SINGLE	SINGLE	SINGLE
	NOTES	[2, 4, 7, 9]	[2, 4, 7, 9]	[2, 4, 7, 9]	[2, 4, 7, 9]	[10]	[10]

NOTES:

1. MAXIMUM NC VALUES CALCULATED USING MODELING ASSUMPTIONS BASED ON ARI 885-90, 1" INLET SP AND 0.25" DOWNSTREAM SP.
2. TERMINAL UNIT ROOM SIDE DUCT SHALL EQUAL SIZE AS INDICATED IN SCHEDULE UNLESS OTHERWISE NOTED ON FLOOR PLANS.
3. HEATING COIL FLUID IS GLYCOL AND WATER. MAX WATER PD =4 FT.
4. SEE DETAILS 1 AND 2 ON SHEET M700 FOR TERMINAL UNIT AND COIL DETAILS.
5. UNIT PERFORMANCE CORRESPONDING TO MAXIMUM AIRFLOW.
6. BRANCH PIPING TO TERMINAL UNIT, UNLESS NOTED OTHERWISE.
7. TERMINAL UNIT BRANCH SIDE DUCT SIZE AS INDICATED IN SCHEDULE UNLESS OTHERWISE NOTED ON FLOOR PLANS.
8. PROVIDE DUCT TRANSITION FROM BRANCH DUCT TO UNIT INLET COLLAR, 15 DEGREE MAXIMUM TRANSITION ANGLE.
9. PROVIDE ACCESS SPACE NEXT TO UNIT THAT IS MIN 14" BUT NO SHORTER THAN THE WIDTH OF THE UNIT.

DIFFUSERS - CEILING

MARK		CD1	CD2
TYPE	DESCRIPTION	MOD CORE	MOD CORE
	MATERIAL	STEEL	STEEL
	NOM FACE SIZE: IN	24x24	24x24
CAPACITY	NECK SIZE: IN	16x16	18X18
	MAX AIRFLOW: CFM	800	900
	MAX SP: IN WG	0.03	0.03
	MAX NECK VEL: FPM	500	450
	MAX NC	23	25
BRANCH CONN	SIZE: IN	14	16
BASIS OF DESIGN	MANUFACTURER	TITUS	TITUS
	MODEL	MCD	MCD
	NOTES	[1, 2, 3]	[1, 2, 3]

NOTES:

1. PROVIDE DIFFUSERS WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS. REFER TO ARCHITECTURAL PLANS.
2. NC BASED ON OCTAVE BANDS 2 - 7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91.
3. PROVIDE ATTACHED PLENUM. SEE DETAIL 3 ON M700.

GRILLES - EXHAUST AND TRANSFER

MARK		EG1	EG2	TG1
TYPE	DESCRIPTION	LOUVERED	PERFORATED	LOUVERED
	MATERIAL	STEEL	STEEL	STEEL
	NOM FACE SIZE: IN	24X24	24X24	24X12
CAPACITY	NECK SIZE: IN	10X10	22X22	22X10
	MAX AIRFLOW: CFM	400	1,600	400
	MAX SP: IN WG	0.02	0.02	0.01
	MAX CORE VEL: FPM	500	500	300
	MAX NC	25	25	20
BRANCH CONN	SIZE: IN [3]	10	16	16x16
BASIS OF DESIGN	MANUFACTURER	TITUS	TITUS	TITUS
	MODEL	PAR	PAR	350RL
	NOTES	[1, 2, 3]	[1, 2, 3]	[1, 2, 3, 4]

NOTES:

1. PROVIDE DIFFUSERS WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS. REFER TO ARCHITECTURAL PLANS.
2. NC BASED ON OCTAVE BANDS 2 - 7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91.
3. TRANSITION BRANCH CONNECTION TO GRILLE DUCT SIZE AS REQUIRED.
4. REFER TO DETAIL 4 ON SHEET M700.

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MECHANICAL SCHEDULES

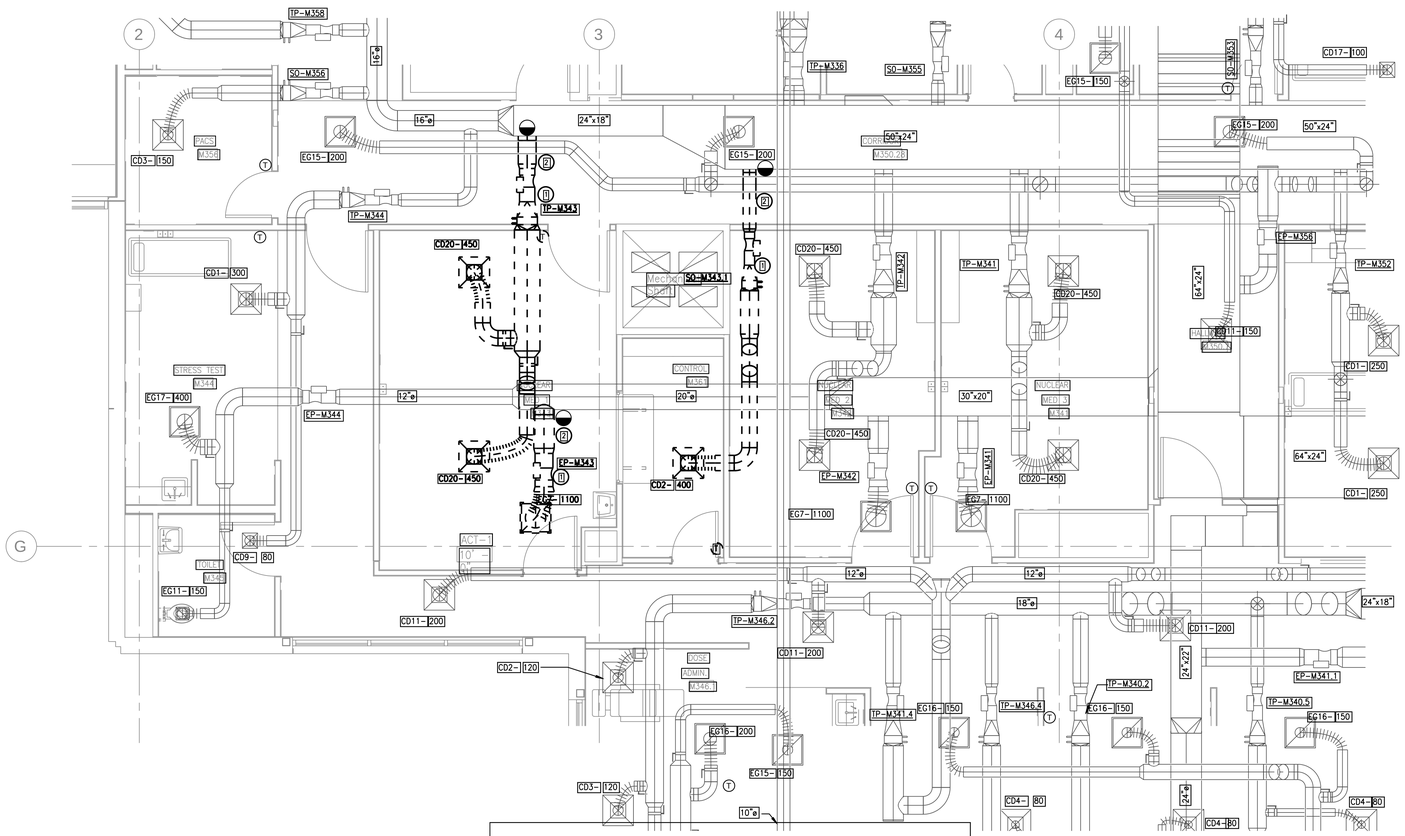
M010

PROJECT NO.: 20046

B-21-0829

KEYED NOTES

1. DEMO EXISTING TERMINAL UNITS AND ASSOCIATED DUCTWORK/DIFFUSERS AND THERMOSTATS.
2. DEMO EXISTING SUPPLY/EXHAUST DUCTS BACK TO MAIN AND CAP FOR FUTURE CONNECTION.



DEMO 3RD FLOOR MECHANICAL DUCT PLAN

1 / MD200

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

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DEMO 3RD FLOOR MECHANICAL DUCT PLANS

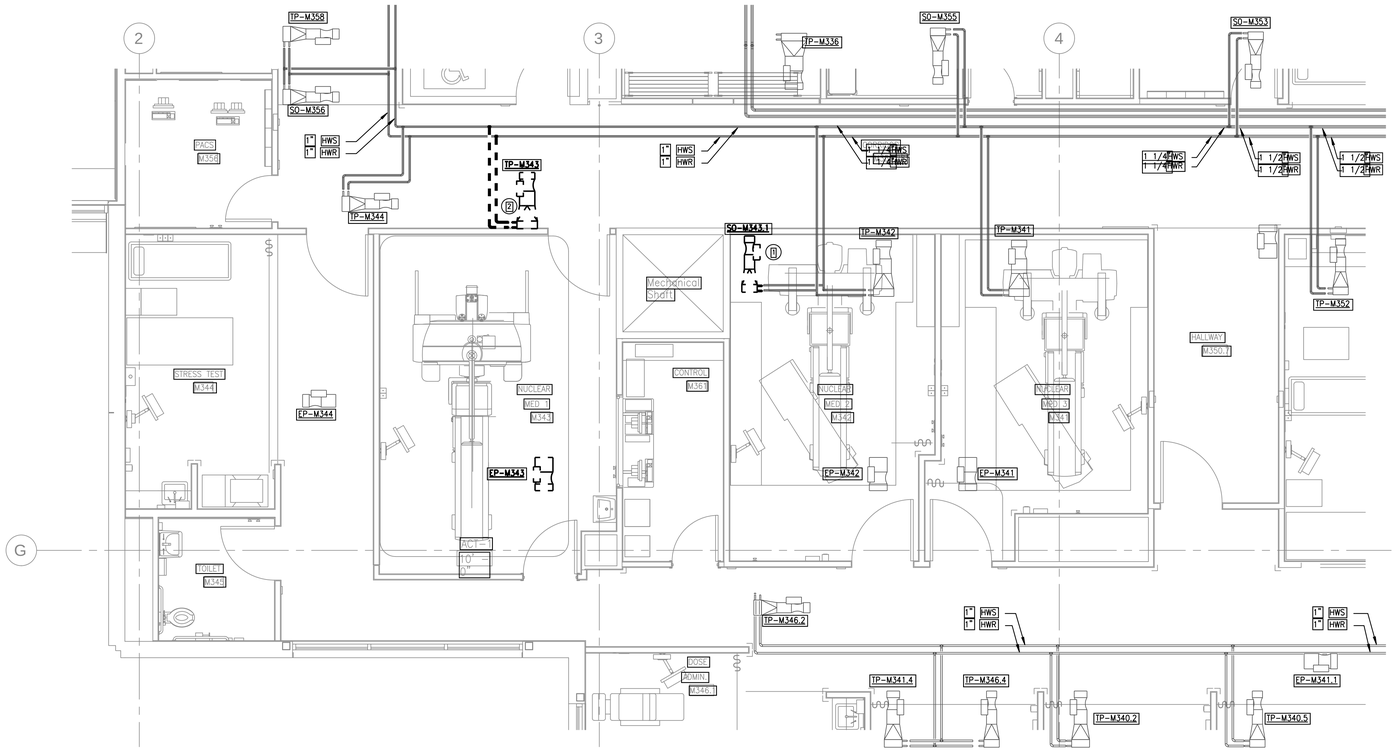
MD200

PROJECT NO.: 20046

B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



KEYED NOTES

1. DISCONNECT PIPING FROM EXISTING TERMINAL UNIT AND CAP FOR FUTURE USE.
2. DEMO PIPE BACK TO MAIN AND CAP FOR FUTURE USE.

1 MD300 DEMO 3RD FLOOR MECHANICAL PIPE PLAN

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

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Project Number: 2206-030

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.21

REVISIONS:

CONSTRUCTION DOCUMENTS

DEMO 3RD FLOOR MECHANICAL PIPING PLANS

MD300

PROJECT NO.: 20046

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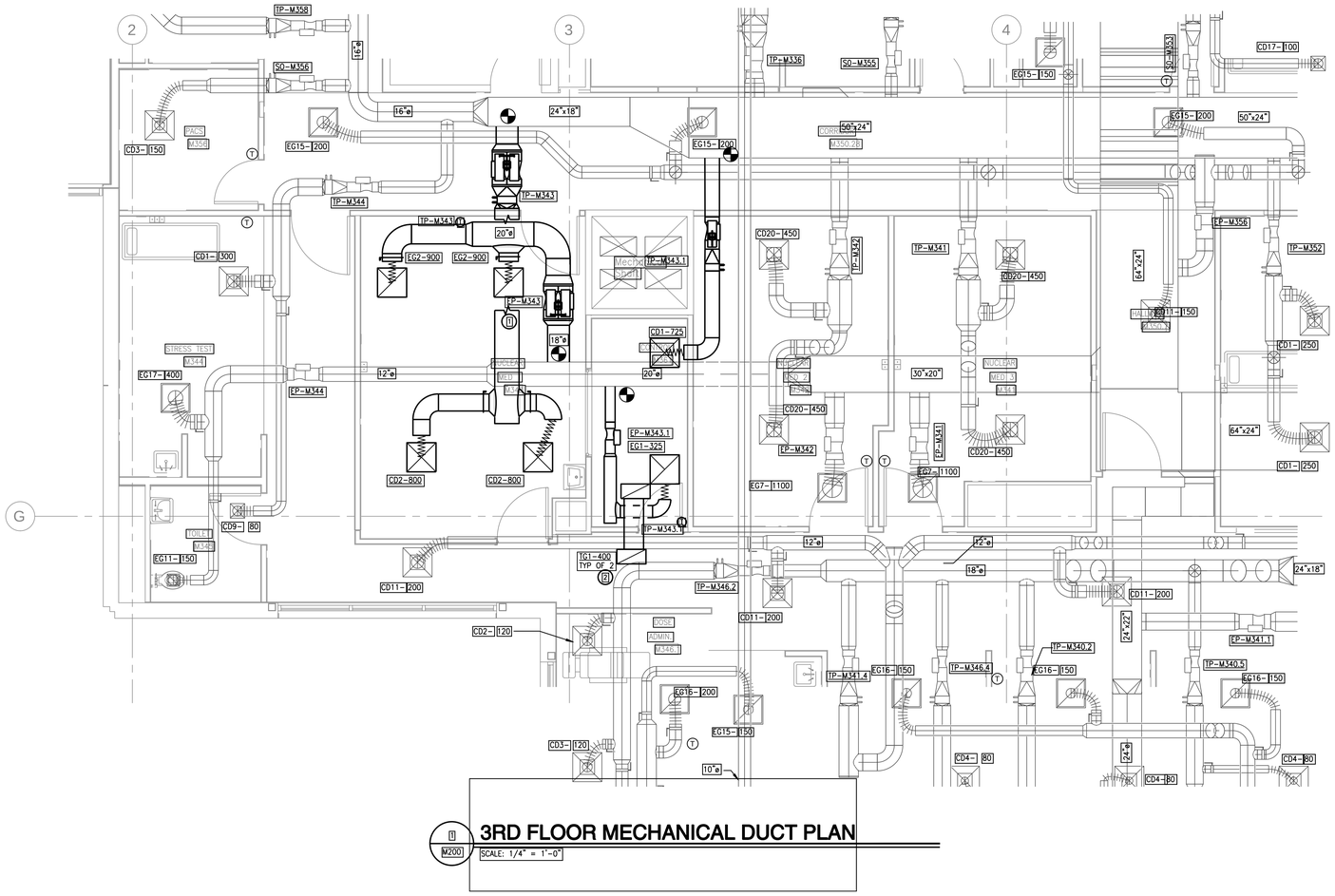
KEYED NOTES

1. ROUTE 20X16 SUPPLY DUCT OVER (N) EXHAUST DUCT.
2. ROUTE 16X16 TRANSFER GRILLE DUCTWORK OVER 10X10 EXHAUST DUCTWORK. REFER TO DETAIL 4 ON SHEET M700 FOR TRANSFER GRILLE DETAIL.



3RD FLOOR MECHANICAL DUCT PLAN

1 / M200 — SCALE: 1/4" = 1'-0"

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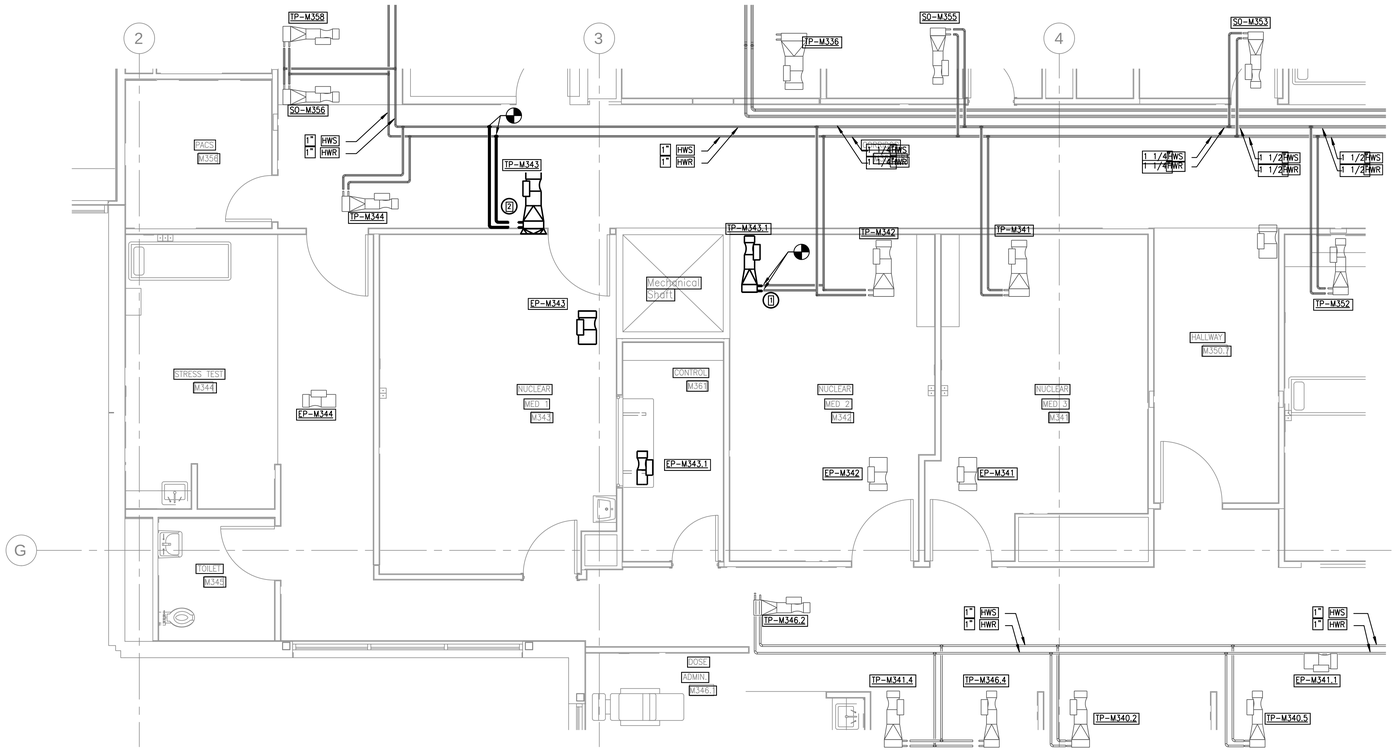

KEYED NOTES

1. RECONNECT EXISTING PIPING INTO NEW TERMINAL UNIT.
2. CONNECT NEW PIPING INTO MAIN AND ROUTE TO NEW TERMINAL UNIT.

3RD FLOOR MECHANICAL PIPE PLAN

1 / M300

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

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3RD FLOOR MECHANICAL PIPING PLANS

M300

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SEQUENCE OF OPERATION

GENERAL REQUIREMENTS

PROVIDE COMPLETE AND OPERATIONAL DDC CONTROL OF ALL MECHANICAL SYSTEMS AS DESCRIBED HEREIN.

REFER TO THE DDC POINT LIST, CONTROL DIAGRAMS, OTHER DRAWINGS, AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. SENSORS AND OTHER DDC DEVICES ARE NOT NECESSARILY LISTED BELOW. DDC INPUTS AND DDC OUTPUTS, INCLUDING REQUIRED SAFETIES, INTERLOCKS, MONITORS AND ALARMS, ARE NOT NECESSARILY LISTED IN THE SEQUENCE OF OPERATION.

ALL VALUES LISTED BELOW, INCLUDING TEMPERATURE SETPOINTS, PRESSURE SETPOINTS, TIME SCHEDULES, ETC. SHALL BE PROGRAMMED AS VARIABLES AND THEY SHALL BE CAPABLE OF CONVENIENT ADJUSTMENT BY THE BUILDING OPERATORS.

INITIAL ROOM TEMPERATURE SETPOINTS SHALL BE PER FGI GUIDELINES UNLESS NOTED OTHERWISE. CONFIRM ALL FINAL SETPOINT TEMPERATURES WITH ENGINEER AND OWNER'S REPRESENTATIVE.

OPERATING SCHEDULES (TIME SCHEDULES): INITIAL AND FINAL SCHEDULES OF SYSTEM OPERATION SHALL BE INPUT BY THE CONTRACTOR. CONFIRM FINAL OPERATING SCHEDULE, INCLUDING OCCUPIED AND UNOCCUPIED HOURS OF OPERATION, FOR EACH SYSTEM AND EACH PIECE OF EQUIPMENT THROUGH CONSULTATION WITH THE OWNER'S REPRESENTATIVE.

PROVIDE MINIMUM RUN TIME ROUTINES FOR ALL DDC CONTROLLED EQUIPMENT TO PREVENT SHORT CYCLING.

PROVIDE SOFTWARE AND SYSTEMS THAT ARE CONVENIENTLY EXPANDABLE TO INCLUDE OPERATION OF INDICATED AND ANTICIPATED FUTURE EQUIPMENT.

TERMINAL UNIT CONTROL, GENERAL:

THE TERMINAL UNITS WILL BE ENABLED AND DISABLED BY THE DDC SYSTEM.

SPACE COOLING IS PROVIDED FROM PRIMARY SUPPLY AIR TO TERMINAL UNITS. REFER TO SHELL AND CORE DOCUMENTS FOR AIR HANDLING UNIT SEQUENCES OF OPERATION.

OPERATIONAL SCHEDULE: SYSTEMS SHALL BE INDEPENDENTLY ENABLED TO OPERATE ACCORDING TO A TIME SCHEDULE. INITIAL TIME SCHEDULE SHALL BE CONTINUOUS OPERATION 24 HOURS/DAY, 7 DAYS/WEEK. CONFIRM FINAL TIME SCHEDULE, INCLUDING OCCUPIED AND UNOCCUPIED HOURS OF OPERATION, FOR EACH TERMINAL UNIT THROUGH CONSULTATION WITH THE OWNER'S REPRESENTATIVE (TYPICAL).

SAFETIES AND ALARMS: REFER TO POINT LIST.

INTERLOCKS: PROVIDE SOFTWARE INTERLOCK WITH THE ASSOCIATED SUPPLY AIR HANDLING UNIT.

TRACKING PAIR TERMINAL UNIT (TP AND EP) CONTROL:

DESCRIPTION: PAIR OF SUPPLY AND EXHAUST AIR TERMINAL UNITS WITH INTEGRATED CONTROLS. SUPPLY AIR (TP UNIT): VARIABLE AIR VOLUME, PRESSURE INDEPENDENT AIR TERMINAL UNIT WITH PRIMARY AIR VALVE AND DOWNSTREAM HEATING WATER COIL. EXHAUST AIR (EP UNIT): VARIABLE AIR VOLUME, PRESSURE INDEPENDENT EXHAUST AIR TERMINAL UNIT WITH AIR VALVE.

DDC CONTROLS SHALL MODULATE PRIMARY SUPPLY AIR VALVE BETWEEN MINIMUM AND MAXIMUM AIRFLOW TO MAINTAIN COOLING SPACE TEMPERATURE SETPOINT. ON CALL FOR HEATING, AIRFLOW SHALL BE AT MINIMUM FLOW AND THE HEATING WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN HEATING SPACE TEMPERATURE SETPOINT.

SPACE PRESSURIZATION: EXHAUST AIR VALVE SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM AIRFLOW, IN PROPORTION WITH THE SUPPLY AIR VALVE, IN ORDER TO MAINTAIN THE DIFFERENTIAL SPACE PRESSURE RELATIONSHIP AS SCHEDULED ON THE DRAWINGS.

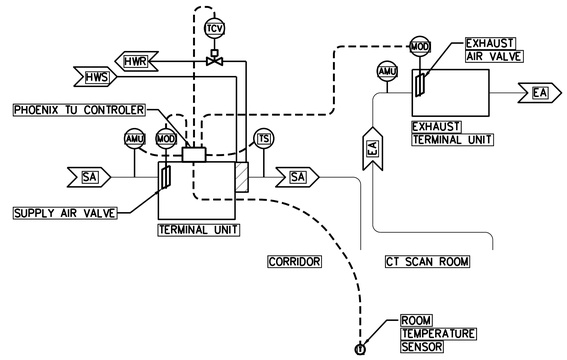
TRACKING PAIR OFFSET:

EP-M343 TO MAINTAIN 200 CFM OFFSET FROM TP-M343 TO KEEP THE ROOM NEGATIVELY PRESSURE.

EP-M343.1 TO MAINTAIN 400 CFM OFFSET FROM TP-M343.1 TO NOT OVERPRESSURIZE THE CORRIDOR.

DDC POINT LIST

CONTROL FUNCTION	DEVICE	INPUTS ANALOG	INPUTS DIGITAL	OUTPUTS ANALOG	OUTPUTS DIGITAL	ALARMS ANALOG	ALARMS DIGITAL	REMARKS
TRACKING PAIR TERMINAL CONTROL (TYPICAL TP/EP)								
PHOENIX TERMINAL UNIT CONTROLLER	AUX	X						TRACCEL TIER 3 CONTROLLER
SPACE TEMPERATURE	TT	X				X		
PRIMARY SUPPLY AIR FLOW	AMU	X				X		
EXHAUST AIR FLOW	AMU	X				X		
SUPPLY AIR VALVE	MOD			X				
TRACKING EXHAUST AIR VALVE	MOD			X				
HEATING WATER CONTROL VALVE	TCV			X				
DISCHARGE AIR TEMPERATURE	TS	X				X		



TYPICAL TRACKING PAIR CONTROL DIAGRAM

SCALE: NONE

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MECHANICAL DIAGRAMS AND CONTROLS

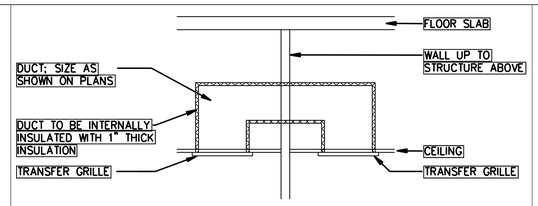
M500

PROJECT NO.: 20046

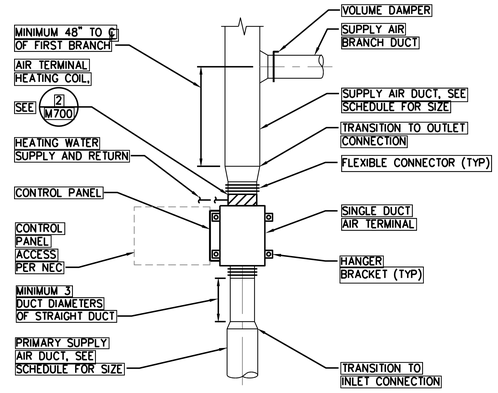
B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

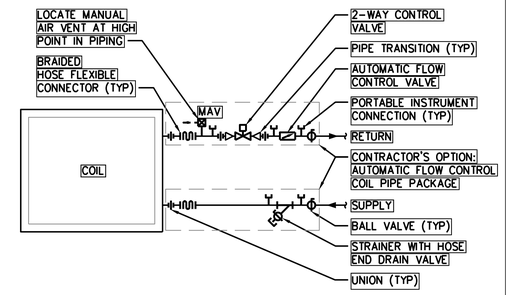
Building	Planning
Engineering	Public Works
Fire	Traffic



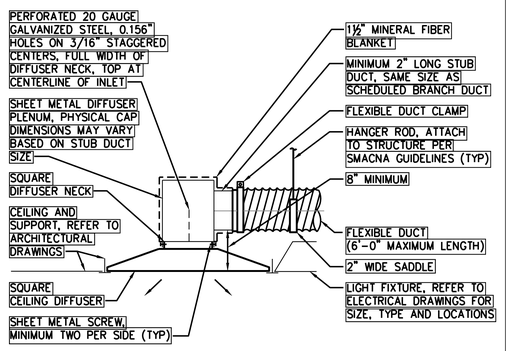
TRANSFER GRILLE ASSEMBLY 4
SCALE: NONE



HEATING WATER COIL
SINGLE DUCT AIR TERMINAL 1
SCALE: NONE



PIPING CONNECTIONS
AIR TERMINAL HEATING WATER COIL 2
SCALE: NONE



NOTE:
LAY-IN CEILING INDICATED, REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE. DIFFUSER BORDER STYLE TO BE COMPATABLE WITH ADJACENT CEILING.

ATTACHED DIFFUSER PLENUM
CEILING DIFFUSER - SQUARE 3
SCALE: NONE

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MECHANICAL DETAILS

M700

PROJECT NO.: 20046

B-21-0829

PLUMBING SYMBOL SCHEDULE

SYMBOL LEGEND

	EXISTING PIPE
	EXISTING PIPE, FIXTURE OR EQUIPMENT TO BE REMOVED
	SOIL OR WASTE PIPING ABOVE FLOOR
	SOIL OR WASTE PIPING BELOW FLOOR
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
SW	SOFT WATER PIPING
CD	CONDENSATE DRAINAGE PIPING
SD	STORM DRAIN
SD	STORM DRAIN BELOW FLOOR
OFD	OVERFLOW DRAINAGE PIPING
OZ	OXYGEN PIPING
MV	MEDICAL VACUUM PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPE
	SHUT OFF VALVE, SEE SPECIFICATIONS
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER
	BALANCING VALVE
	GAS COCK
	UNION
	REDUCER
	DIRECTION FLOW
	PIPE ANCHOR
	PIPE UP
	PIPE DOWN
	VALVE IN VERTICAL
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	CAPPED PIPE
	PIPE SLEEVE
	WALL CLEANOUT
	FLOOR CLEANOUT
	GRADE CLEANOUT
	MEDICAL GAS ALARM PRESSURE SWITCH
	MEDICAL GAS ZONE VALVE BOX
	MEDICAL GAS ALARM PANEL
FS-1	FLOOR SINK (FULL GRADE) (HALF GRATE)
FD-1	FLOOR DRAIN
RD-1	ROOF DRAIN
OFD-1	OVERFLOW DRAIN
	POINT OF CONNECTION
(1)	SHEET NOTE DESIGNATION
EQUIP. (1)	EQUIPMENT DESIGNATION EQUIPMENT NUMBER
1 X.X	DETAIL REFERENCE BUBBLE DETAIL NUMBER SHEET BEARING DETAIL

GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE PLUMBING CODE, BUILDING CODE, NATIONAL FIRE PROTECTION CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS AS CURRENTLY ADOPTED BY AUTHORITY HAVING JURISDICTION.
2. COORDINATE PLUMBING SYSTEMS WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL, MECHANICAL AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
4. PLATFORMS, CURBS AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
5. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER'S REP.
6. PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
7. HORIZONTAL PIPING THRU METAL STUDS IS PROHIBITED.

2018 WASHINGTON STATE ENERGY CODE

1. THE DOMESTIC HOT WATER SYSTEM SHALL BE INSTALLED SUCH THAT THE MAXIMUM LENGTH OF UNCIRCULATED HOT WATER PIPING SHALL NOT EXCEED THE VALUES LISTED IN TABLE C404.5.1. THE UNCIRCULATED PIPE IS THE SECTION THAT EXPERIENCES ZERO FLOW WHEN THE PLUMBING FIXTURE IS NOT IN USE.
2. HEATED-WATER CIRCULATING AND TEMPERATURE MAINTENANCE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.7 OF THE WSEC.
3. SERVICE WATER PRESSURE-BOOSTER SYSTEMS SHALL BE DESIGNED AND CONFIGURED AS REQUIRED BY SECTION C404.13 OF THE WSEC.
4. SERVICE WATER HEATING SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH SECTION C408.
5. RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6.1 OF THE WSEC. THE DRAWINGS SHALL INDICATE THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, GENERAL CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATES AS A MINIMUM.
6. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6 OF THE WSEC AND AS SPECIFIED.
7. COMMISSIONING SHALL BE PROVIDED AND REPORT OF COMMISSIONING BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408 OF THE WSEC. COMMISSIONING SHALL CONSIST OF A COMMISSIONING PLAN, BALANCING, FUNCTIONAL PERFORMANCE TESTING, POST CONSTRUCTION COMMISSIONING, TRAINING, REPORTS, ACCEPTANCE AND COMMISSIONING COMPLIANCE CHECKLIST.
8. DOMESTIC HOT WATER CIRCULATION PUMPS SHALL BE SHUT DOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C404.7.1 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
9. DOMESTIC HOT WATER PIPING SHALL NOT EXCEED THE FLOW RATE LIMITATIONS PER C404.3.
10. ALL PIPING SHALL BE INSULATED AS REQUIRED BY SECTION C403.10.3 AND TABLE C403.2.9 OF THE WSEC AND AS DESCRIBED IN THE PROJECT MANUAL.

TEMPERATURE °F	INSULATION CONDUCTIVITY: CONDUCTIVITY BTU•in/(H•ft²•°F)	INSULATION CONDUCTIVITY: MEAN RATING TEMP. °F	PIPE DIAMETER: ≤1"	1"<D<1-1/2"	1-1/2"≤D<4"	4"≤D≤8"	>8"
			INSULATION THICKNESS				
ABOVE 350	.32-.34	250	4.5	5.0	5.0	5.0	5.0
251-350	.29-.32	200	3.0	4.0	4.5	4.5	4.5
201-250	.27-.30	150	2.5	2.5	2.5	3.0	3.0
141-200	.25-.29	125	1.5	1.5	2.0	2.0	2.0
105-140	.21-.28	100	1.0	1.0	1.5	1.5	1.5
40-60	.21-.27	75	0.5	0.5	1.0	1.0	1.0
BELOW 40	.20-.26	75	0.5	1.0	1.0	1.0	1.5

NOTE: PIPING INSULATION MEETS OR EXCEEDS WSEC.

11. AUTOMATIC-CIRCULATING HOT WATER AND HEAT-TRACED SYSTEM PIPING SHALL BE INSULATED AS REQUIRED BY SECTION C404.6.

SYSTEM	INSULATION CONDUCTIVITY	INSULATION THICKNESS
AUTOMATIC CIRCULATING HOT WATER	< .27	1.0
HEAT TRACED SYSTEMS	< .27	1.0
SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS	< .27	0.5 (FIRST 8' OF PIPE)

TABLE C404.3.1
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET): PUBLIC LAVATORY FAUCETS	MAXIMUM PIPING LENGTH (FEET): OTHER FIXTURES AND APPLIANCES
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1 1/4	8	0.5	8
1 1/2	11	0.5	6
2 OR LARGER	18	0.5	4

ABBREVIATIONS

AAP	AREA ALARM PANEL (MED. GAS)	MA	MEDICAL AIR
AD	AREA DRAIN	MAI	MEDICAL AIR INTAKE
AFF	ABOVE FINISHED FLOOR	MAP	MASTER ALARM PANEL (MED. GAS)
AP	ACCESS PANEL	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MBH	THOUSAND BTU PER HOUR
AS	AUTOMATIC FIRE SPRINKLER	MG	NATURAL GAS - MEDIUM PRESSURE
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFG	BELOW FINISHED GRADE	MV	MEDICAL VACUUM
BHP	BRAKE HORSEPOWER	MVE	MEDICAL VACUUM EXHAUST
BV	BALANCING VALVE	N2O	NITROUS OXIDE
CD	CONDENSATE DRAIN	N2	NITROGEN
CFF	CAPPED FOR FUTURE CONNECTION	(N)	NEW
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CHV	CHECK VALVE	NO	NORMALLY OPEN
COND	CONDENSATE	NO.	NUMBER
CONN	CONNECTION	OD, OFD	OVERFLOW DRAIN TO DAYLIGHT
CONT	CONTINUATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CSP	COMBINATION STANDPIPE	OS&Y GV	OUTSIDE STEM AND YOKE GATE VALVE
CTE	CONNECT TO EXISTING	PAS	PRE-ACTION AUTOMATIC SPRINKLER
CU. FT.	CUBIC FEET	PD	PUMPED DISCHARGE
CU. IN.	CUBIC INCHES	PG	PRESSURE GAUGE
CW	COLD WATER	POC	POINT OF CONNECTION
DF	DRINKING FOUNTAIN	PRV	PRESSURE REDUCING VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNITS	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PWS	PURE WATER SUPPLY
DR	DRAIN	PWR	PURE WATER RETURN
DW	DISHWASHER	R	RELOCATE OR RELOCATED
(E)	EXISTING	RD	ROOF DRAIN
EEW	EMERGENCY EYE WASH	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
EL	ELEVATION	RPM	REVOLUTIONS PER MINUTE
ESH	EMERGENCY SHOWER	S	SOIL OR WASTE
ETV	EEW/ESH TEMPERING VALVE	SD	STORM DRAINAGE
EWC	ELECTRIC WATER COOLER	SOV	SHUT-OFF VALVE IN RISER
F	FIRE MAIN	SK	SINK
FCO	FLOOR CLEANOUT	SPD	SPRINKLER DRAIN
FCV	FLOW CONTROL VALVE	⌑	SQUARE FEET
FD	FLOOR DRAIN	SQ. FT.	SQUARE FEET
FHC	FIRE HOSE CABINET	SS	SANITARY SEWER
FHV	FIRE HOSE VALVE	TDL	TOTAL DEVELOPED LENGTH OF PIPE
FIN.FLR.	FINISHED FLOOR	TP	TRAP PRIMER
FS	FLOOR SINK	TS	TAMPER SWITCH
FT	FEET	TW	TEMPERED WATER
GAL	GALLON	TYP	TYPICAL
GCO	GRADE CLEANOUT	UON	UNLESS OTHERWISE NOTED
GPM	GALLONS PER MINUTE	UR	URINAL
GV	GATE VALVE	V	VENT
HB	HOSE BIBB	VTR	VENT THROUGH ROOF
HP	HORSEPOWER	W	WASTE
HW	HOT WATER	WAGD	WASTE ANESTHETIC GAS DISPOSAL
HWR	HOT WATER RETURN	WC	WATER CLOSET
HZ	HERTZ	WCO	WALL CLEANOUT
IN	INCHES	WH	WATER HEATER
I.E.	INVERT ELEVATION	WHA	WATER HAMMER ARRESTER
IW	INDIRECT WASTE	WHB	WALL HYDRANT BOX
KW	KILOWATT	WSFU	WATER SUPPLY FIXTURE UNITS
LAV	LAVATORY	WSP	WET STAND PIPE
LB	POUND	ZVB	ZONE VALVE BOX - MEDICAL GAS

FIRE PROTECTION GENERAL NOTES

1. THE AUTOMATIC SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE NFPA 13. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE AN APPROVED MATERIAL. INSTALLATION OF THE SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF EXISTING SPRINKLER SYSTEM, IF ANY) HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.
2. COORDINATE LOCATIONS OF ALL SPRINKLER HEADS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT. PRIOR TO FABRICATION, SUBMIT LAYOUT DRAWINGS FOR ARCHITECTURAL ACCEPTANCE. COORDINATE LOCATIONS OF ALL SPRINKLER MAINS, BRANCH PIPING, ETC. WITH OTHER TRADES.
3. SPRINKLER HEAD TOLERANCE IN CEILING TILES IS +1" FROM CENTER OF TILE.
4. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS OR FITTINGS REQUIRED. THE FIRE SPRINKLER CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS WITH DUCTS, LIGHTS, FIXTURES, PIPING, ETC.
5. THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF THE FIRE SPRINKLER PIPING SHALL COMPLY WITH THE CURRENT EDITION OF NFPA 13. PROVIDE ANCHORAGE DETAILS AND CALCULATIONS FOR THE CONNECTION OF SWAY BRACING TO THE STRUCTURE. DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER NFPA 13, CURRENT EDITION. ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

DRAWING INDEX

PLUMBING FIXTURES

MARK		LV1
TYPE	DESCRIPTION	HANDWASH
	TYPE	WALL MOUNTED
CONNECTIONS	COLD WATER: IN	1/2
	HOT WATER: IN	1/2
	WASTE: IN	2
	VENT: IN	2
	NOTES	

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
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Fire | Traffic

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Project Number: 206-030

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.21

REVISIONS:

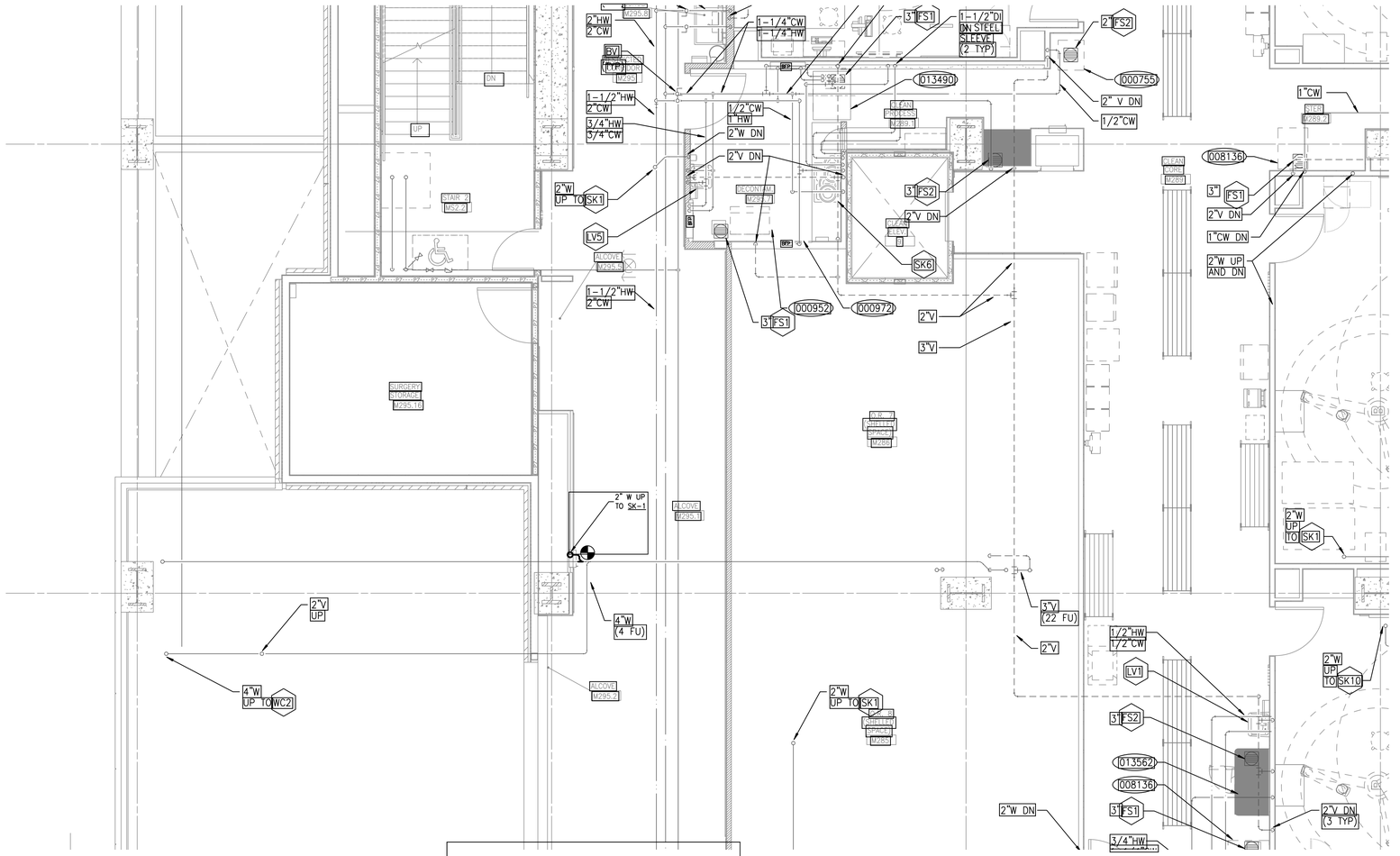
CONSTRUCTION DOCUMENTS

PLUMBING
COVER SHEET, ENERGY CODE AND SCHEDULES

P001

PROJECT NO.: 20046

B-21-0829



1 P200 **2ND FLOOR PLUMBING PLAN**
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. COORDINATE PENETRATION FROM FLOOR ABOVE TO AVOID CONFLICTS WITH WALLS ABOVE CEILING

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Engineering	Public Works
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2ND FLOOR PLUMBING PLANS

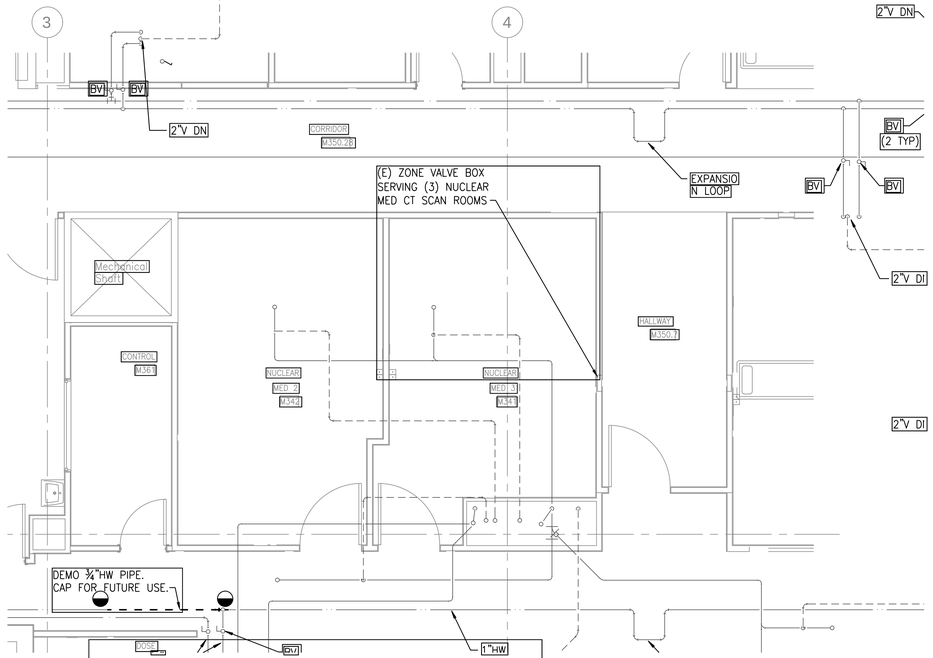
P200

PROJECT NO.: 20046

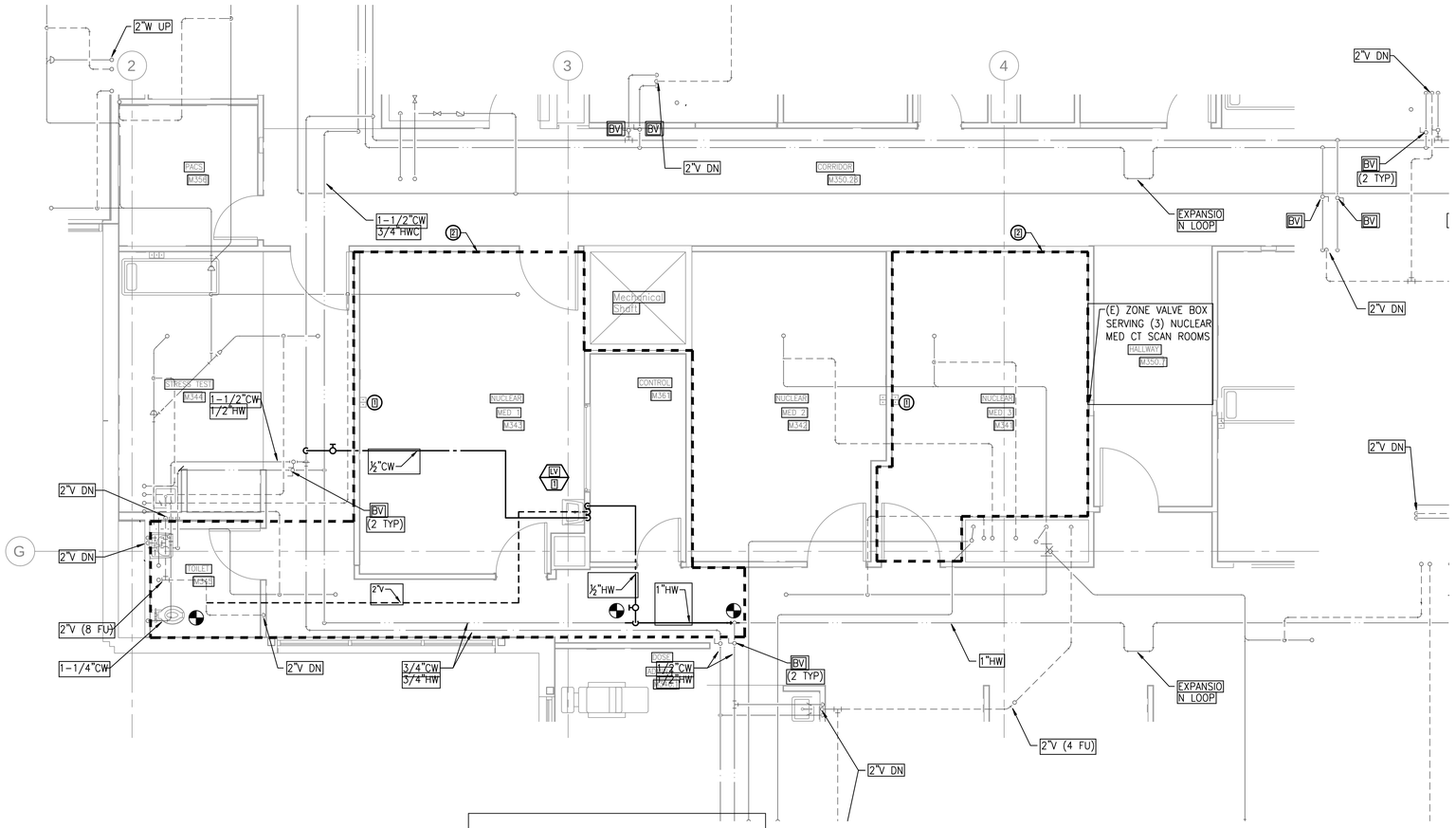
B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



1 P300 **3RD FLOOR PLUMBING DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"



2 P300 **3RD FLOOR PLUMBING PLAN**
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. EXISTING MEDICAL GAS PIPING, OUTLETS AND ZONE VALVE BOXES TO REMAIN.
2. REVISE FIRE SPRINKLER LAYOUT AS NECESSARY TO ACCOMMODATE CHANGES IN PROJECT AREA

KEYED NOTES

1. EXISTING WALL OUTLETS WITH (1) MV AND (1) O2.
2. REVISE FIRE PROTECTION PLAN IN PROJECT AREA TO MATCH NEW FLOOR PLAN LAYOUT.

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3RD FLOOR PLUMBING NEW AND DEMO PLANS

P300

PROJECT NO.: 20046

B-21-0829

SYMBOLS LEGEND - GENERAL

SYMBOL	DESCRIPTION
	EXISTING TO BE REMOVED
	HEAVY LINEWEIGHT INDICATES NEW WORK
	LIGHT LINEWEIGHT INDICATES EXISTING INFORMATION
	POINT OF CONNECTION (POC) BETWEEN NEW AND EXISTING
XX XXN	EQUIPMENT IDENTIFIER (XX = ABBREVIATION Y = EQUIPMENT SCHEDULE NUMBER)
1	DRAWING CONSTRUCTION ("FLAG") NOTE
X-XX	EQUIPMENT IDENTIFIER
XXX	RACEWAY/CABLE/CONDUCTOR ROUTING IDENTIFIER-REFER TO RACEWAY/CABLE/CONDUCTOR SCHEDULE
	MATCHLINE
	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)
1	REVISION REFERENCE
X / XX.XX	DETAIL REFERENCE DETAIL IDENTIFICATION NUMBER SHEET WHERE DETAIL IS DRAWN
X / XX.XX	ELEVATION REFERENCE ELEVATION IDENTIFICATION NUMBER SHEET WHERE ELEVATION IS DRAWN
X / XX.XX	SECTION REFERENCE SECTION IDENTIFICATION NUMBER SHEET WHERE SECTION IS DRAWN
N	NORTH REFERENCE

SYMBOLS LEGEND - POWER

SYMBOL	DESCRIPTION
	TRANSFORMER
M	METER
	480Y/277V, 3Ø, 4W PANELBOARD
	208Y/120V, 3Ø, 4W PANELBOARD
	EQUIPMENT CABINET - TYPE AS NOTED
XXX	PANELBOARD
	TRANSFER SWITCH (AUTO)
XXXXXX	AMPERES SHORT CIRCUIT AVAILABLE (SYMMETRICAL)
#####	FEEDER TAG - REFER TO FEEDER SCHEDULE
	FUSE
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	EQUIPMENT CONNECTION
G	GENERATOR
M	MOTOR CONNECTION
SD	SMOKE DAMPER
FSD	FIRE SMOKE DAMPER
$M	MOTOR-RATED SWITCH - SIZE OL PER MOTOR REQUIREMENTS
	EQUIPMENT EMERGENCY SHUTDOWN SWITCH

SYMBOLS LEGEND - WIRING DEVICES

SYMBOL	DESCRIPTION
$	SINGLE-POLE WALL SWITCH MOUNT SWITCHES AT 48" AFF. TO CL. UON.
$XX	WALL SWITCH - SUBSCRIPT 2 = 2-POLE 3 = 3-WAY 4 = 4-WAY K = KEYED LV = LOW-VOLTAGE OS = OCCUPANCY SENSOR TYPE OP = OCCUPANCY/PHOTOELECTRIC TYPE WP = WEATHERPROOF VS = VACANCY SENSOR LOWER CASE LETTER INDICATES SWITCHING GROUP ANY COMBINATION OF SWITCH TYPES CAN BE USED (IE. 3K = 3-WAY KEYED SWITCH)
	SPECIAL PURPOSE RECEPTACLE TYPE AS SHOWN ON PLANS
	SINGLE SERVICE OR COMBINATION FLUSH MOUNTED FLOOR BOX. REFER TO FLOOR PLANS FOR DEVICES.
	SINGLE SERVICE OR COMBINATION FLUSH FLOOR POKE THRU. REFER TO FLOOR PLANS FOR DEVICES.
	POWER/COMM POLE - FLOOR TO CEILING.
	SURFACE MOUNTED FLOOR BOX (PEDESTAL TYPE).
	PUSH BUTTON
	SIMPLEX RECEPTACLE NEMA 5-20R, +18" AFF UON
	DUPLEX/DOUBLE DUPLEX RECEPTACLES
	NEMA 5-20R, +18" AFF UON
T T	TAMPER RESISTANT, NEMA 5-20R, +18" AFF UON
IG IG	ISOLATED GROUND, NEMA 5-20R, +18" AFF UON
	NEMA 5-20R W/ GROUND FAULT CIRCUIT INTERRUPTER, +18" AFF UON
	SPLIT WIRED, NEMA 5-20R, +18" AFF UON
	CONTROLLED, NEMA 5-20R, +18" AFF UON
	NEMA 5-20R, ABOVE COUNTER, +18" AFF UON
	NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
T T	TAMPER RESISTANT, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	NEMA 5-20R, CONNECTED TO EMERGENCY CIRCUIT, +18" AFF UON
	NEMA 5-20R MOUNTED ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	CEILING-MOUNTED, NEMA 5-20R
	NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS
T	TAMPER RESISTANT, NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS

SYMBOLS LEGEND - FIRE ALARM

SYMBOL	DESCRIPTION
F	FIRE ALARM PULL STATION
F	FIRE ALARM HORN ONLY
XX	FIRE ALARM HORN STROBE
S	FIRE ALARM SPEAKER ONLY
XX	FIRE ALARM SPEAKER STROBE
XX	FIRE ALARM STROBE ONLY - WALL
XX	FIRE ALARM STROBE ONLY - CEILING
F	FIRE ALARM BELL
F	HEAT DETECTOR F - FIXED TEMPERATURE R - RATE OF RISE ONLY R/C - RATE COMPENSATION R/F - RATE OF RISE AND FIXED TEMPERATURE
S BT	SMOKE DETECTOR BT - BEAM TRANSMITTER BR - BEAM RECEIVER I - IONIZATION P - PHOTOELECTRIC
S	FIRE ALARM DUCT SMOKE DETECTOR WITH SAMPLING TUBE
FA	FIRE ALARM EQUIPMENT CONNECTION

SYMBOLS LEGEND - NURSE CALL

SYMBOL	DESCRIPTION
NCCP	NURSE CALL CONTROL EQUIPMENT PANEL
NCMA	NURSE CALL MASTER STATION - AUDIO
NCMN	NURSE CALL MASTER STATION - NON AUDIO
I	ZONE DOME LIGHT, CEILING MOUNTED (NUMBER DENOTES ZONE)
	DOME LIGHT, CEILING MOUNTED
	DOME LIGHT, WALL MOUNTED
E	MEDICAL EMERGENCY STATION (MES)
E CB	CODE BLUE STATION
D	DUTY STATION
S	STAFF STATION
I	IN/OUT PUSH BUTTON
	TOILET PULL STATION
WP	SHOWER PULL STATION
PB WP	SHOWER PULL STATION - LIGATURE RESISTANT PUSHBUTTON TYPE
A	NURSE CALL ANNUNCIATOR
	SINGLE PATIENT STATION (PS)
PB	SINGLE PATIENT STATION (PS) - LIGATURE RESISTANT PUSHBUTTON TYPE
MES	SINGLE PATIENT STATION (PS) WITH EMERGENCY CALL BUTTON
	DUAL PATIENT STATION (PS)
MES	DUAL PATIENT STATION (PS) WITH EMERGENCY CALL BUTTON

SYMBOLS LEGEND - GENERAL

SYMBOL	DESCRIPTION
	MINIMUM 3/4" CONDUIT CONCEALED IN CEILING SPACE OR IN WALL MINIMUM 3/4" WITH #12 AWG CONDUCTORS WITH DEDICATED NEUTRAL EACH CIRCUIT, UNLESS OTHERWISE NOTED ON PLAN. PROVIDE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NFPA 70.
	FLEXIBLE METAL CONDUIT
	CONDUIT - CONCEALED IN OR UNDER FLOOR OR ROUTED UNDERGROUND
	LOW-VOLTAGE WIRING (CLASS B)
	CONDUIT OR CABLE VERTICAL DOWN
	CONDUIT OR CABLE VERTICAL UP
	CONDUIT STUB - TERMINATE WITH BUSHING OR CAP IF UNDERGROUND
	CONDUIT SEAL
	EXPANSION FITTING
	JUNCTION BOX
PP	POWER PACK
	CABLE TRAY
A-1,3,5	BRANCH CIRCUIT NUMBERS PANEL DESIGNATION HOME RUN TO SOURCE OF SUPPLY

SYMBOLS LEGEND - POWER

SYMBOL	DESCRIPTION
GFI	BREAKER WITH EXTERNAL GROUND FAULT RELAY AND CT
G	CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
M	STARTER 3-POLE, NEMA SIZE 1 MINIMUM UNLESS NOTED OTHERWISE
	COMBINATION STARTER HP RATED, 3-POLE, NEMA SIZE 1 MINIMUM, UNLESS NOTED OTHERWISE - OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
	DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
	FUSED DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE - OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
C	CONTACTOR
CR	RELAY COIL CR-CONTROL RELAY; TD-TIME DELAY RELAY; UV-UNDERVOLTAGE RELAY; M-MOTOR CONTACTOR;

SYMBOLS LEGEND - LIGHTING

SYMBOL	DESCRIPTION
XXXX	LIGHT FIXTURE IDENTIFIER - REFER TO LIGHTING FIXTURE SCHEDULE
NL	SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP BALLAST
	2x4 LUMINAIRE
	1x4 LUMINAIRE
	2x2 LUMINAIRE
	WALL MOUNTED LUMINAIRE LUMINAIRE
	UNDER-CABINET LUMINAIRE LUMINAIRE
	STRIP LUMINAIRE
	DOWNLIGHT
	WALL MOUNTED LUMINAIRE
	WALL WASH LUMINAIRE
	WALL MOUNTED DIRECTIONAL LUMINAIRE
	DECORATIVE PENDENT LLUMINAIRE - TYPE AS NOTED
	TRACK LIGHT - LENGTH AS INDICATED ON PLANS NUMBER OF LUMINAIRES AS SHOWN
	ILLUMINATED EXIT SIGN - SINGLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT
	ILLUMINATED EXIT SIGN - DOUBLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT
	BATTERY-POWERED EMERGENCY WALLPACK
	COMBINATION BATTERY POWERED EMERGENCY WALLPACK AND ILLUMINATED EXIT SIGN
TC	TIME CLOCK - TYPE AS NOTED
SB	SWITCH BYPASS DEVICE
ICS1-1	ILLUMINATION CONTROL STATION
OS	OCCUPANCY SENSOR WITH POWER PACK AS REQUIRED - MULTITECHNOLOGY TYPE UNLESS NOTED: U = ULTRASONIC IR = INFRARED
PC	PHOTOELECTRIC CONTROL

SYMBOLS LEGEND - COMMUNICATIONS

SYMBOL	DESCRIPTION
	COMMUNICATIONS - OUTLET (# = REPRESENTS THE NUMBER OF COMMUNICATION PORTS. (IE 1,2,3)) (W = SINGLE COMMUNICATIONS PORT WALL MOUNTED AT +54" AFF.) (P = PAYPHONE, WALL MOUNTED AT +48" AFF)
D	INTERCOM - OUTLET (D = DESK MOUNTED) (W = WALL MOUNTED AT +54" AFF.)
WAP	COMPUTER NETWORK WIRELESS ACCESS POINT - CEILING MOUNTED
	COMMUNICATIONS - PAINTED FIRE RESISTANT 3/4" PLYWOOD BACKBOARD

SYMBOLS LEGEND - GROUNDING

SYMBOL	DESCRIPTION
	GROUND CONNECTION
	GROUND ROD
	GROUND WELL
	AIR TERMINAL

ABBREVIATIONS

@	AT	E	EXIST, EAST	H	HEIGHT	MCB	MAIN CIRCUIT BREAKER	PF	POWER FACTOR	TYP	TYPICAL
A/C	AIR CONDITIONING(ER)	EDH	ELECTRIC DUCT HEATER	HID	HIGH INTENSITY DISCHARGE	MECH	MECHANICAL	PH	PHASE		
A (AMP)	AMPERE	EF	EXHAUST FAN	HOA	HAND OFF AUTOMATIC	MEZZ	MEZZANINE	PIV	POST INDICATOR VALVE	UFC	UNIFORM FIRE CODE
AC	ABOVE COUNTER, ALTERNATING CURRENT	EGC	EQUIPMENT GROUNDING CONDUCTOR	HOR	HORIZONTAL	MG	MOTOR GENERATOR	PNL	PANEL	UG	UNDERGROUND
ADJ	ADJUSTABLE	EL	ELEVATION	HP	HORSEPOWER	MH	METAL HALIDE / MANHOLE	POC	POINT OF CONNECTION	UH	UNIT HEATER
ADJT	ADJACENT	ELEC	ELECTRIC(AL)	HR	HOUR	MIN	MINIMUM	PWR	POWER	UL	UNDERWRITERS LABORATORIES
AFF	ABOVE FINISHED FLOOR	ELEV	ELEVATOR	HT	HEIGHT	MISC	MISCELLANEOUS			UNO	UNLESS NOTED OTHERWISE
AHJ	AUTHORITY HAVING JURISDICTION	EM	EMERGENCY	HW	HOT WATER	MLO	MAIN LUG ONLY	QTY	QUANTITY	UV	UNIT VENTILATOR
AIC	AMPERE INTERRUPTING CAPACITY	EMT	ELECTRICAL METALLIC TUBING	HZ	HERTZ	MOCP	MAXIMUM OVERCURRENT PROTECTION				
ALT	ALTERNATE	ENCL	ENCLOSURE			MS	MAGNETIC STARTER	R (R)	RELOCATE (D)	V	VOLT
ANN	ANNUNCIATOR	ENTR	ENTRANCE	IBC	INTERNATIONAL BUILDING CODE	MTD	MOUNTED	RAD	RADIUS	VAV	VARIABLE AIR VOLUME
ARCH	ARCHITECT; ARCHITECTURAL	EP	EXPLOSION PROOF	IC	INTERCOM	MTG	MOUNTING	RECPT	RECEPTACLE	VEL	VELOCITY
ATS	AUTOMATIC TRANSFER SWITCH	EPO	EMERGENCY POWER OFF	IES	ILLUMINATING ENGINEERING SOCIETY	MTR	MOTOR	REF	REFRIGERATOR	VM	VOLTMETER
AUTO	AUTOMATIC	EQUIP/EQP	EQUIPMENT	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC			RLA	RATED LOAD AMPS	VOL	VOLUME
AUX	AUXILIARY	EWC	ELECTRIC WATER COOLER		ENGINEERS	N	NORTH; NEUTRAL	RPM	REVOLUTIONS PER MINUTE		
AWG	AMERICAN WIRE GAUGE	EWH	ELECTRIC WATER HEATER	IG	ISOLATED GROUND	N/A	NOT APPLICABLE			W	WATT, WEST
		EXH	EXHAUST	IMC	INTERMEDIATE METAL CONDUIT	NC	NORMALLY CLOSED	S	SOUTH	W/	WITH
BKBD	BACKBOARD	EXT	EXTERIOR	IN	INCH	NEC	NATIONAL ELECTRICAL CODE	SC	SECURITY	W/O	WITHOUT
BKR	BREAKER	EXIST	EXISTING			NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION	SCCR	SHORT CIRCUIT CURRENT RATING	WH	WATER HEATER
BLDG	BUILDING			JB	JUNCTION BOX			SD	SMOKE DETECTOR	WHM	WATT HOUR METER
		F	FAHRENHEIT/FUSE			NESC	NATIONAL ELECTRICAL SAFETY CODE	SECT	SECTION	WP	WEATHERPROOF
C	CONDUIT	FA	FIRE ALARM	KCMIL	THOUSAND CIRCULAR MILLS	NEUT	NEUTRAL	SF	SUPPLY FAN		
CAP	CAPACITY	FAA	FIRE ALARM ANNUNCIATOR	KVA	KILOVOLT AMPERES	NFPA	NATIONAL FIRE PROTECTION AGENCY	SHT	SHEET	X	REACTANCE
CB	CIRCUIT BREAKER	FACP	FIRE ALARM CONTROL PANEL	KVAR	KILOVOLT AMPERES REACTIVE	NIC	NOT IN CONTRACT	SPD	SURGE PROTECTIVE DEVICE	XFMR	TRANSFORMER
CKT	CIRCUIT	FC	FOOTCANDLE	KW	KILOWATT	NO	NORMALLY OPEN	SPEC	SPECIFICATION	XMTR	TRANSMITTER
CLG	CEILING	FCU	FAN COIL UNIT	KWH	KILOWATT HOUR	NTS	NOT TO SCALE	SPL	SPECIAL		
CLR	CLEAR	FD	FIRE DAMPER					SQ	SQUARE	Z	IMPEDANCE
COL	COLUMN	FDR	FEEDER	LBS	POUNDS	OC	ON CENTER	STOR	STORAGE		
COM	COMMUNICATION	FIXT	FIXTURE	LF	LINEAR FEET (FEET)	OFCI	OWNER FURNISHED CONTRACTOR	SW	SWITCH	&	AND
CPS	CYCLES PER SECOND	FLA	FULL LOAD AMPS	LRA	LOCKED ROTOR AMPS	INSTALLED		SWBD	SWITCHBOARD	I.E.:	THAT IS
CT	CURRENT TRANSFORMER	FSA	FIRE SYSTEM ANNUNCIATOR	LS	LIFE SAFETY	OL	OVERLOAD	SYM	SYMMETRICAL		
CU	COPPER	FSD	FIRE/SMOKE DAMPER	LT	LIGHT	OS	OPTIONAL STANDBY	SYS	SYSTEM		
				LTG	LIGHTING						
DC	DIRECT CURRENT	GEN	GENERATOR	LV	LOW VOLTAGE	P	PRIMARY	T	THERMOSTAT		
DISC SW	DISCONNECT SWITCH	GFI	GROUND FAULT CIRCUIT INTERRUPTER		MAGNETIC	PA	PUBLIC ADDRESS	TB	TERMINAL BOX		
DISC	DISCONNECT	GFR	GROUND FAULT RELAY	MAN	MANUAL	PAR	PARALLEL	TC	TIME CLOCK		
DN	DOWN			MAX	MAXIMUM	PB	PULL BOX	TEL	TELEPHONE		
DWG	DRAWING			MCA	MINIMUM CIRCUIT AMPACITY	PE	PHOTO ELECTRIC	TV	TELEVISION		

DEMOLITION NOTES:

A. THE EXISTING CONDITIONS SHOWN WERE TAKEN FROM AVAILABLE RECORD INFORMATION. FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ENGINEER IN WRITING AND REQUEST DIRECTION PRIOR TO COMMENCING WORK.

B. EXISTING LIGHT FIXTURES SHALL BE CAREFULLY REMOVED (DO NOT DAMAGE) AND RETURNED TO THE OWNER.

C. ANY AND ALL EQUIPMENT HAVING ELECTRICAL CONNECTIONS THAT REQUIRE DISCONNECTING AND/OR RE-CONNECTING AS A RESULT OF CONSTRUCTION SHALL BE INCLUDED AS A PART OF THIS CONTRACT.

D. THE EXISTING ELECTRICAL DEVICES, CONDUIT, AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED. LOCATION IS TO BE AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION.

E. ALL CIRCUITS, CONDUIT AND WIRE THAT ARE NOT TO REMAIN IN SERVICE SHALL BE REMOVED BACK TO THE FIRST ACCESSIBLE JUNCTION BOX WHERE IT SHALL BE TIED OFF AND LABELED AS SPARE WITH CIRCUIT NUMBER INDICATED.

F. REMOVE ALL ABANDONED WIRE AND CABLING.

GENERAL NOTES:

1. SYMBOLS LEGENDS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. THE SYMBOLS REPRESENT THE TYPE OF DEVICES THAT MAY BE REQUIRED IN THE WORK; QUANTITIES AND LOCATIONS ARE AS SHOWN ON THE PLAN SHEETS.
2. PROVIDE 3/4" CONDUIT & #12 CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR OF SINGLE PHASE LINE-NEUTRAL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL CONDUCTORS.
3. EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250
4. ALL ELECTRICAL EQUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL BE LEFT IN WORKING CONDITION. RESTORE ANY CIRCUITS INTERRUPTED.
5. ALL NEW LIGHT FIXTURES AND FIXTURES IN AREAS ADJACENT DEMOLITION & CONSTRUCTION AREAS ARE TO BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO NOTICE OF SUBSTANTIAL COMPLETION.
6. THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE BASE BID:
   A. NEW ELECTRICAL EQUIPMENT AND APPARATUS SHALL BE COORDINATED AND CONNECTED INTO THE EXISTING SYSTEM AS REQUIRED.
   B. POWER WIRING AND CABLE INSTALLATIONS SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS AND IN WALLS. EXPOSED WIRING SHALL BE INSTALLED IN APPROVED SURFACE METAL RACEWAY WHERE INDICATED.
   C. WHERE EXISTING CONDUITS ARE INDICATED FOR REUSE, FIELD VERIFY INTEGRITY OF REUSED RACEWAYS PRIOR TO INSTALLATION OF CONDUCTORS. PROVIDE NEW RACEWAYS WHERE EXISTING ARE UNUSABLE.
   D. LOCATIONS OF ALL WALL MOUNTED DEVICES SUCH AS SWITCHES, RECEPTACLE, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. VISIT THE SITE TO CONFIRM EXACT DEVICE LOCATIONS AND COORDINATE INSTALLATIONS WITH FIXED CASEWORK, DOORS AND RELITES.
   E. PROVIDE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS AS REQUIRED. PROVIDE SUITABLE FIRE RATED MATERIALS AND SEAL ALL CEILING, FLOOR, AND WALL PENETRATIONS TO MATCH FIRE RATING OF SURFACES PENETRATED.

LIGHTING AND RECEPTACLE NOTES:

1. LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS ZONED ON THE LIGHTING PLANS. SWITCHING AND DIMMING ZONES ARE INDICATED ADJACENT TO EACH FIXTURE.
2. MANUAL CONTROLS SHALL ALLOW OCCUPANTS TO UNIFORMLY REDUCE ILLUMINATION LEVELS AT LEAST 50%. EXCEPTION: CORRIDORS, RESTROOMS, LOBBIES, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY (IDF) ROOMS CONTROLLED BY OCCUPANCY SENSORS.
3. EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO HAVE AUTOMATIC TIME SWITCH CONTROL. PROVIDE TIMED OVERRIDE SWITCHES THAT WILL SERVE A MAXIMUM AREA OF 2500 S.F. IN LOCATIONS SHOWN ON PLANS.

   EXCEPTIONS:
   A. EMERGENCY EGRESS LIGHTING CONTROLLED BY OCCUPANCY SENSORS.
   B. LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS.
4. LUMINARIES PROVIDING MEANS OF EGRESS ILLUMINATION AND HAVING BOTH NORMAL AND EMERGENCY POWER SOURCES SHALL BE CONTROLLED BY A COMBINATION OF U.L. 924 LISTED EMERGENCY RELAYS AND OCCUPANCY SENSORS THAT ENABLES THE LIGHTING TO BE SHUT OFF WHEN THE AREAS SERVED ARE UNOCCUPIED AND AUTOMATICALLY ILLUMINATES IN THE EVENT OF NORMAL POWER SOURCE FAILURE.
5. THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A 20 AMPERE CIRCUIT LOADED TO NOT MORE THAN 80 PERCENT.
6. PROVIDE FUNCTIONAL TESTING OF AUTOMATIC LIGHTING CONTROLS. SUBMIT WRITTEN PROCEDURES FOR FUNCTIONAL TESTING OF ALL AUTOMATIC CONTROLS WITH DESCRIPTION OF THE EXPECTED SYSTEM RESPONSE.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
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ELECTRICAL DRAWING LIST

Sheet Number	Sheet Title
E0.00	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX
E1.00	LUMINAIRE SCHEDULE
E1.01	ELECTRICAL KEY PLAN - OVERALL AND LEVEL 3
E2.11	PARTIAL LIGHTING PLANS - DEMO AND NEW - LEVEL 03
E3.11	PARTIAL POWER PLANS - DEMO AND NEW - LEVEL 03
E4.11	PARTIAL SYSYTEMS AND COMMU PLANS - DEMO AND NEW - LEVEL 03
E5.01	IMAGING INSTALL DRAWINGS - LEVEL 03
E5.02	IMAGING INSTALL DRAWINGS - LEVEL 03
E6.01	PANEL SCHEDULES
E6.02	LOAD SUMMARY EMMERGENCY POWER
E6.03	LOAD SUMMARY - NORMAL POWER
E7.01	ONE-LINE DIAGRAM
E7.02	ONE-LINE DIAGRAM
E7.03	480Y NORMAL PCT ONE-LINE DIAGRAM
E7.04	480Y NORMAL PCT ONE-LINE DIAGRAM
E7.05	480Y NORMAL PCT ONE-LINE DIAGRAM

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JAY G. JACKS
STATE OF WASHINGTON
39064
REGISTERED
PROFESSIONAL ENGINEER
07/01/2021

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.21
REVISIONS:

CONSTRUCTION DOCUMENTS

GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX

E0.00

B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

LUMINAIRE SCHEDULE

FIXTURE TYPE	MANUFACTURER / CATALOG # / DESCRIPTION	CCT / CRI	INPUT WATTS (W)	LUMEN OUTPUT	BALLAST / TRANSFORMER / DRIVER	VOLTAGE	LENS / REFLECTOR / BEAM	TRIM / FLANGE / BAFFLE / FINISH	REMARKS / ACCESSORIES/ OPTIONS
R1	LITHONIA - 2BLT4-48L-XX-MVOLT-DIMMIMG-LP935 2X4 DIRECT LED LUMINAIRE, STEEL HOUSING, RECESS MOUNT, T-BAR	3500K/90CRI	38	4800	INTEGRAL 0-10V	UNV		WHITE FINISH	
R1E	LITHONIA - 2BLT4-48L-XX-MVOLT-DIMMIMG-LP935 2X4 DIRECT LED LUMINAIRE, STEEL HOUSING, RECESS MOUNT, T-BAR	3500K/90CRI	38	4800	INTEGRAL 0-10V	UNV		WHITE FINISH	PROVIDE INTEGRAL UL924 BATTERY BACKUP BALLAST

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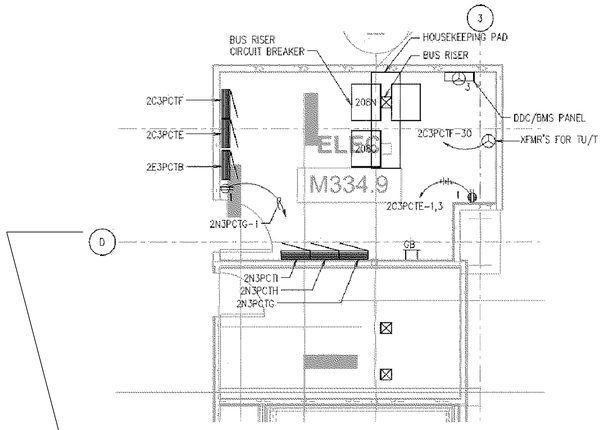
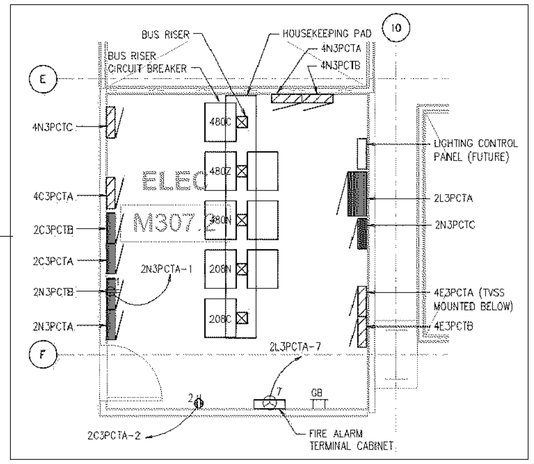
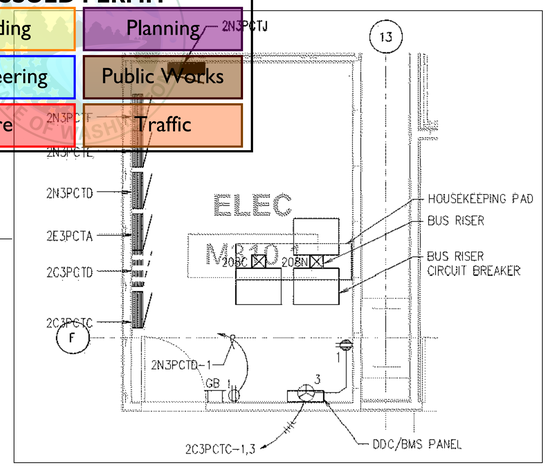
LUMINAIRE SCHEDULE

E1.00

B-21-0829

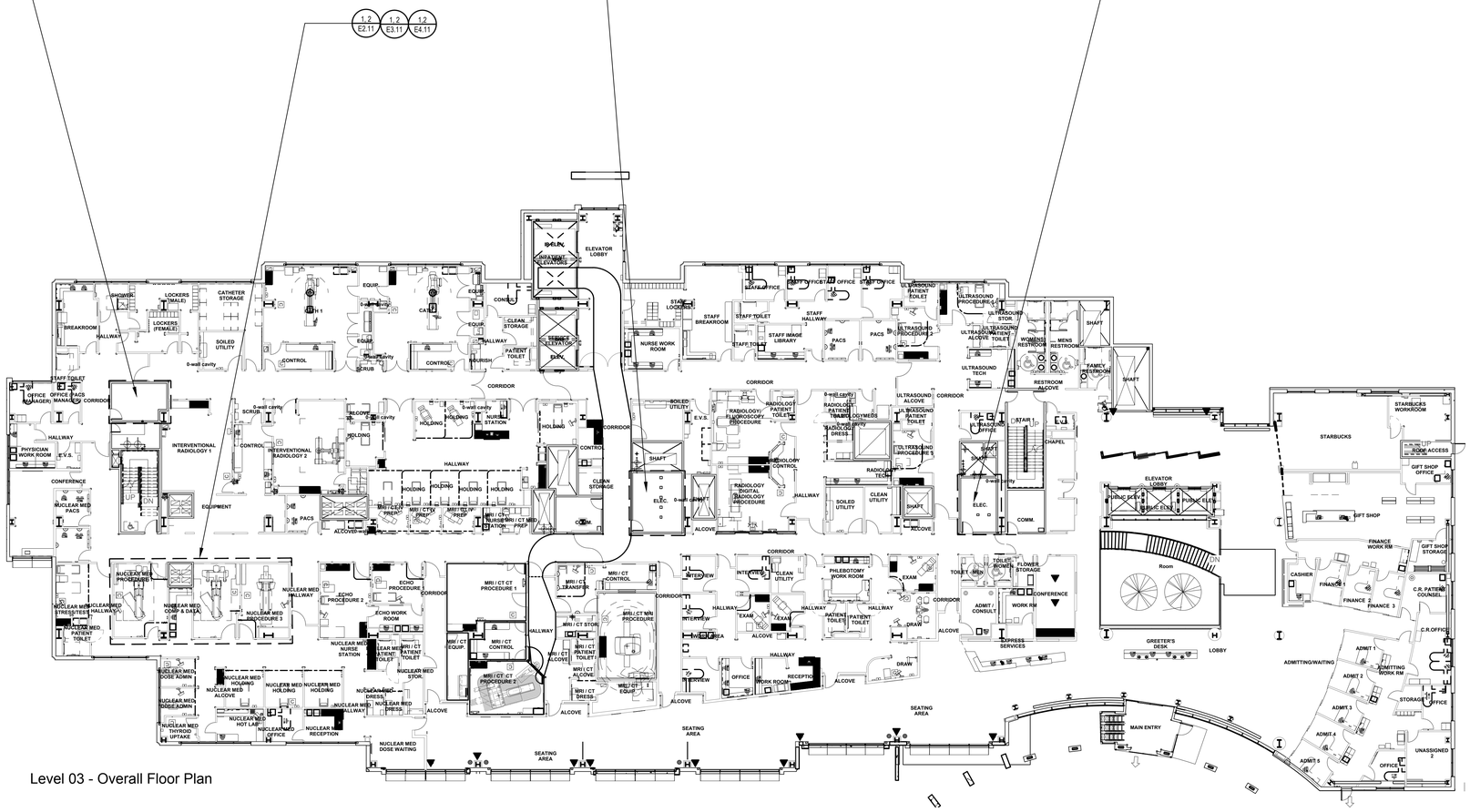






City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



Level 03 - Overall Floor Plan

1 Level 03 - Overall Floor Plan
1/16" = 1'-0"

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL WORK ON THIS PLAN IS EXISTING

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ELECTRICAL KEY PLAN - OVERALL AND LEVEL 3

E1.01

B-21-0829

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL WORK ON THIS PLAN IS EXISTING.
2. EXISTING LINE WORK DENOTES EXISTING WORK.
3. HEAVY LIGHT WORK DENOTES NEW WORK.

DEMOLITION NOTES

D1 CAREFULLY REMOVE FIXTURE AND RELOCATE AS INDICATED.

FLAG NOTES

1 INSTALL EXISTING FIXTURE AND RECONNECT TO EXISTING CIRCUIT.

2 PROVIDE NEW WIRING AS REQUIRED TO RE-INSTALL SWITCHES IN NEW WALL AND TO RECONNECT TO LIGHT FIXTURES.

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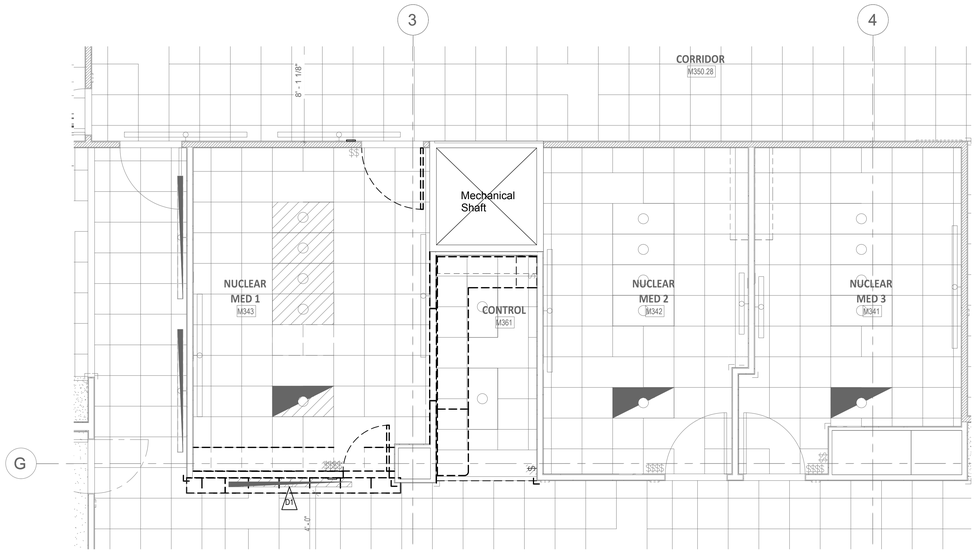
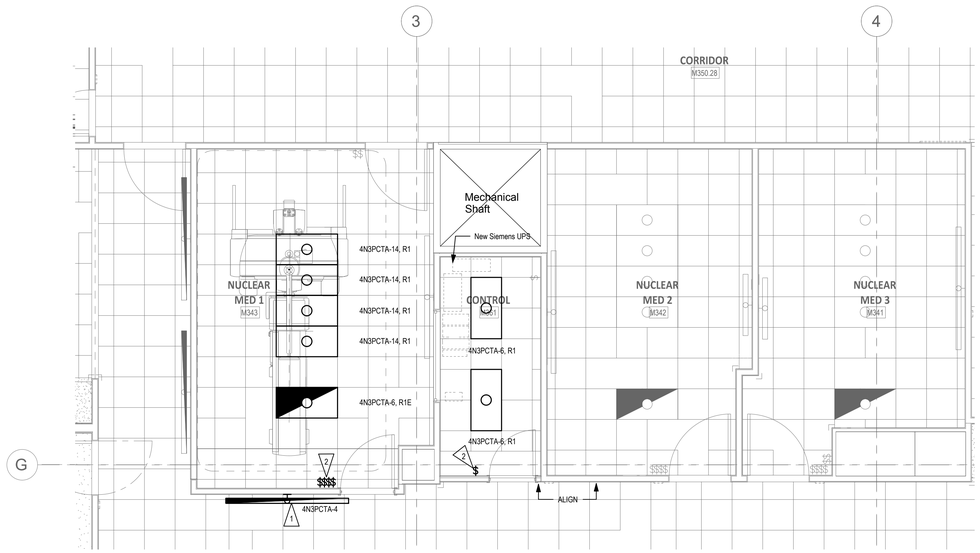


1 PARTIAL LIGHTING DEMOLITION PLAN - LEVEL 03
SCALE ::1/4" = 1'-0"



2 PARTIAL LIGHTING PLAN - LEVEL 03
SCALE ::1/4" = 1'-0"

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PARTIAL LIGHTING PLANS - DEMO AND NEW - LEVEL 03

E2.11

1' 4'
0' 2' 8'
SCALE 1/4" = 1'-0"

B-21-0829

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL WORK ON THIS PLAN IS EXISTING.
2. EXISTING LINE WORK DENOTES EXISTING WORK.
3. HEAVY LIGHT WORK DENOTES NEW WORK.

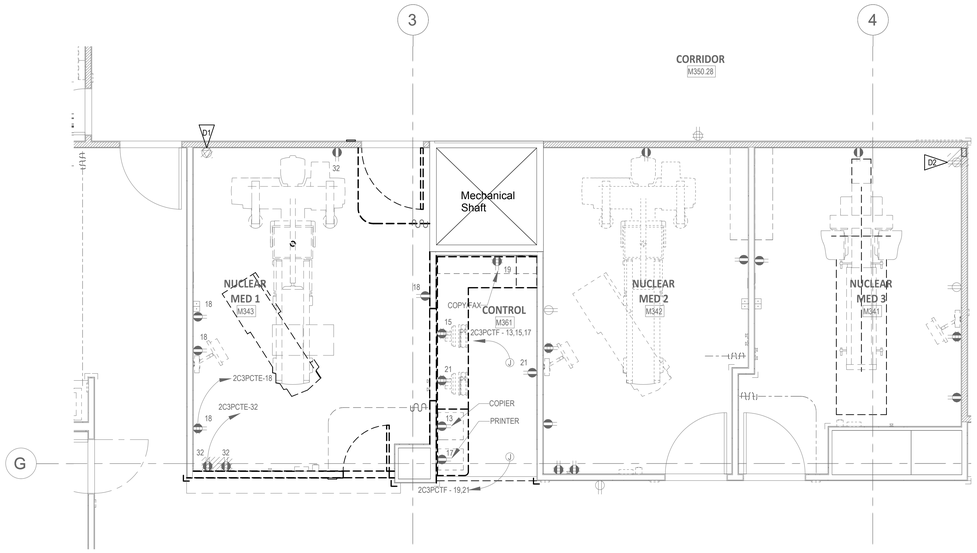
DEMOLITION NOTES

D1 REMOVE EXISTING 30A, 208V RECEPTACLE. INTERCEPT EXISTING CIRCUIT IN CEILING SPACE ABOVE AND EXTEND 3/4"-4#10 TO ROOM M341.

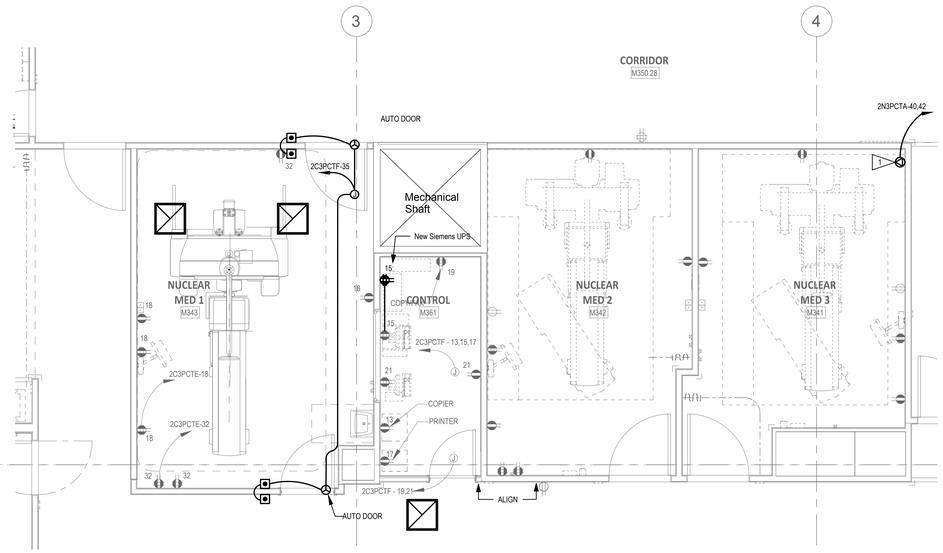
D2 REMOVE EXISTING 120V, 20A CIRCUIT BREAKER DISCONNECT AND ASSOCIATED WALL RECEPTACLE. PATCH WALL.

FLAG NOTES

1 INSTALL EXISTING 30A, 208V RECEPTACLE PREVIOUSLY USED IN ROOM M343 FOR RELOCATED NUC MED MACHINE. EXTEND FEEDER FROM ROOM M343 AS INDICATED.



1 PARTIAL EXISTING POWER/DEMOLITION PLAN - LEVEL 03
SCALE ::1/4" = 1'-0"



2 PARTIAL POWER PLAN - LEVEL 03
SCALE ::1/4" = 1'-0"

1" 4"
0" 2" 8"
SCALE 1/4" = 1'-0"

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PARTIAL POWER PLANS - DEMO AND NEW - LEVEL 03

E3.11

B-21-0829

GENERAL NOTES

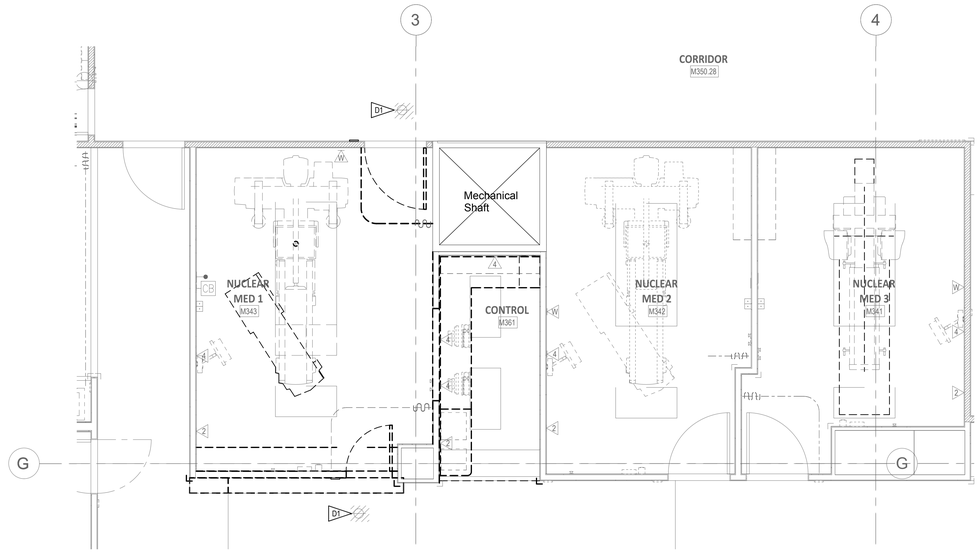
1. UNLESS OTHERWISE NOTED, ALL WORK ON THIS PLAN IS EXISTING.
2. EXISTING LINE WORK DENOTES EXISTING WORK.
3. HEAVY LIGHT WORK DENOTES NEW WORK.

DEMOLITION NOTES

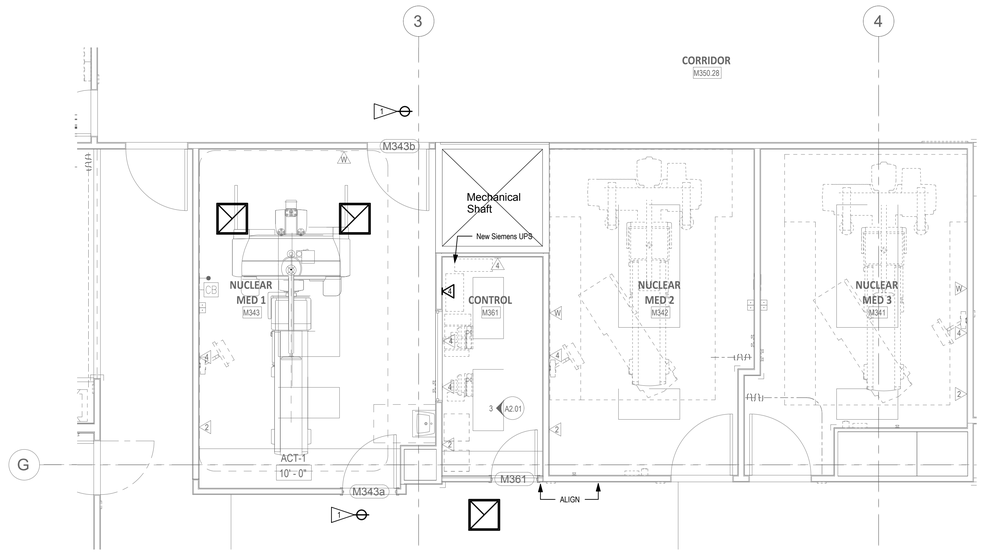
D1 CAREFULLY REMOVE AND RELOCATE EXISTING DOME LIGHT .

FLAG NOTES

1 INSTALL EXISTING DOME LIGHT AND RECONNECT TO EXISTING CIRCUIT.



1 PARTIAL EXISTING SYSTEMS & COMMUNICATION/DEMOLITION PLAN - LEVEL 03
SCALE ::1/4" = 1'-0"



2 PARTIAL SYSTEMS & COMMUNICATION PLAN - LEVEL 03
SCALE ::1/4" = 1'-0"

1" 4"
0" 2" 8"
SCALE 1/4" = 1'-0"

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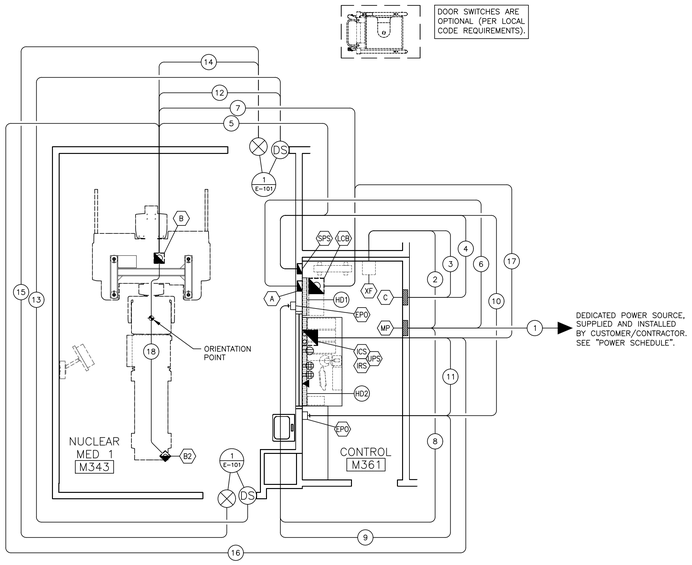
PARTIAL SYSYTEMS AND COMM PLANS - DEMO AND NEW - LEVEL 03

E4.11

B-21-0829



ELECTRICAL RACEWAY PLAN

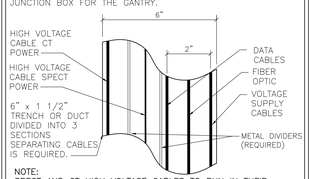
SCALE: 1/4" = 1'-0"

TRENCH/DUCT/CONDUIT REQUIREMENTS

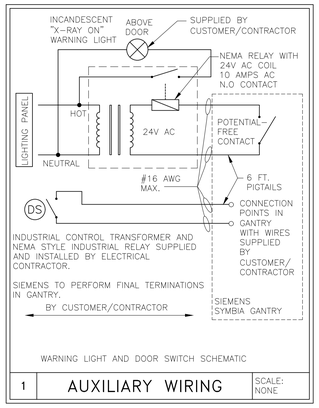
IT IS EXTREMELY IMPORTANT THAT THE CABLING IS INSTALLED EXACTLY AS SPECIFIED WITHIN THIS DETAIL. THE VOLTAGE SUPPLY CABLES AND/OR HIGH VOLTAGE CABLES MUST BE LAID SEPARATELY FROM THE DATA CABLES. SPECT AND CT POWER CABLES MUST BE ROUTED IN INDIVIDUAL GROUNDED CONDUIT OR GROUNDED DUCT. DATA CABLES TO BE ROUTED SEPARATELY. A 1 1/2" CONDUIT OR DUCT MUST BE SUPPLIED WITH 2 METAL DIVIDERS WITH 3 SECTIONS TO KEEP CABLES SEPARATED.

HIGH VOLTAGE AND SUPPLY CABLES:
ON SITE POWER LINE CABLE TO THE SYMBIA INTEVO EXCEL, SYMBIA INTEVO 2, SYMBIA INTEVO 6, SYMBIA INTEVO 16 AND SYMBIA INTEVO BOLD SYSTEMS.

FOR SYMBIA INTEVO EXCEL, SYMBIA INTEVO 2, SYMBIA INTEVO 6, SYMBIA INTEVO 16 AND SYMBIA INTEVO BOLD SYSTEMS:
THE VOLTAGE SUPPLY CABLE FROM THE LCB TO THE JUNCTION BOX FOR THE GANTRY.



NOTE:
SPECT AND CT HIGH VOLTAGE CABLES TO RUN IN THEIR OWN, RESPECTIVE GROUNDED CONDUIT/DUCT. DATA AND LOW VOLTAGE CABLES MAY RUN TOGETHER IN GROUNDED CONDUIT/DUCT. THIS APPLIES TO CABLES FROM THE GANTRY JUNCTION BOX FOR THE GANTRY TO LCB AND BETWEEN THE LCB AND THE MAIN POWER PANEL.



WARNING LIGHT AND DOOR SWITCH SCHEMATIC

1	AUXILIARY WIRING	SCALE: NONE

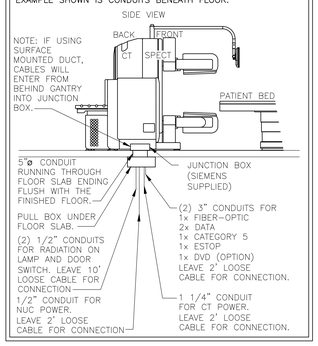
CABLE ENTRANCES

AN ELECTRICIAN IS REQUIRED TO BE AVAILABLE DURING THE ACTUAL INSTALLATION OF THE SYSTEM.

A LOCAL CERTIFIED ELECTRICIAN MUST BE AVAILABLE AT THE TIME OF INSTALL TO BE COORDINATED WITH THE SIEMENS PROJECT MANAGER. THE SITE SHOULD BE PREPARED IN ADVANCE WITH A 2'-0" LOOSE CABLE FOR CABLE CONNECTIONS FROM THE LCB TO GANTRY (B).

CABLES MAY ENTER FROM CONDUITS BENEATH FLOOR, SURFACE MOUNTED DUCT, OR FLUSH IN FLOOR TRENCH DUCT. PLEASE REFER TO SITE SPECIFIC SHEET E-101 AND E-102 TO SEE HOW CABLES ACCESS GANTRY.

EXAMPLE SHOWN IS CONDUITS BENEATH FLOOR:



FINISHED ROOM HEIGHT

SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16, INTEVO BOLD	MINIMUM 8'-0"
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16, INTEVO BOLD WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-2" MAXIMUM 12'-0"
CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.	

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
		SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR	
(A)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
(B)	8" x 8"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 5"ø CONDUIT RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(B2)	6" x 6"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3"ø CONDUIT RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION. SIEMENS SUPPLIED COVER.	PHS CABLE ACCESS UNDER THE PHS
(C)	25A-2P, FLUSH ENCLOSED	TRANSFORMER BREAKER IN NEMA 1 ENCLOSURE SURFACE OR FLUSH MOUNTED. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR BASED ON LOCATION OF XF. SUPPLIED BY CUSTOMER/CONTACTOR.	SEE POWER SCHEDULE
(EPO)	---	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED ON WALL AT 5'-0" ABOVE FINISH FLOOR THAT PREVENTS RESETTING OF CIRCUIT BREAKER WHEN IN THE OFF POSITION. THERE SHALL BE AN EPO IN EACH ROOM OF THE SUITE WHERE SIEMENS EQUIPMENT IS LOCATED, EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(ICS)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH TWO 3"ø CONDUITS RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATIONS.	IMAGE CONSTRUCTION SYS. POWER
(IRS)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	IMAGE RECONSTRUCTION SYS
(LCB)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6"ø CONDUIT RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	LINE CONNECTION BOX
(MP)	---	MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE
(PS)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL 12" ABOVE FINISHED FLOOR IN SHOWN LOCATION PROVIDED WITH FINISHED COVER. USE SEALTIGHT WITH 90 DEGREE CONNECTORS BETWEEN SPS AND PULL BOX AND CONDUIT TO B.	UPS FOR SYMBIA CAMERA SYSTEMS/UPS FOR SPECT
(SPS)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
(XF)	AS REQUIRED	TRANSFORMER PROVIDING STEP DOWN POWER FOR THE SPECT SYSTEM. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR BASED ON LOCATION OF MP AND/OR SPS. SUPPLIED BY CUSTOMER/CONTACTOR.	SEE POWER SCHEDULE
(W1)	6" x 3 1/2"	ELECTRICAL DUCT THAT RUNS HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE. DUCT TO BE DIVIDED INTO THREE SECTIONS WITH METAL DIVIDERS.	RACEWAY
(W2)	10" x 3 1/2"	ELECTRICAL DUCT TO RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN. DUCT TO BE DIVIDED INTO THREE SECTIONS WITH METAL DIVIDERS. OPENING IN FACE OF RACEWAY TO BE DETERMINED AT THE TIME OF INSTALL.	RACEWAY
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(2)	AS REQUIRED	CONDUIT FROM "MP" TO "XF" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(3)	AS REQUIRED	CONDUIT FROM "XF" TO "C" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(4)	AS REQUIRED	CONDUIT FROM "C" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(5)	1/2"ø	CONDUIT FROM "SPS" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 64'-0"
(6)	1 1/4"ø	CONDUIT FROM "MP" TO "A" (LCB) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(7)	1 1/4"ø	CONDUIT FROM "LCB" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 64'-0"
(8)	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(9)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(10)	AS REQUIRED	CONDUIT FROM "EPO" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(11)	AS REQUIRED	CONDUIT FROM "EPO" TO "ICS" (UPS) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(12)	1/2"ø	CONDUIT FROM "B" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(13)	AS REQUIRED	CONDUIT FROM "DOOR SAFETY SWITCH" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(14)	1/2"ø	CONDUIT FROM "B" TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(15)	AS REQUIRED	CONDUIT FROM "WARNING LIGHT" (X-RAY ON) TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(16)	(2) 3"ø	CONDUIT "B" TO "ICS".	MAXIMUM CONDUIT LENGTH 53'-0"
(17)	1 1/2"ø	CONDUIT FROM "LCB" TO "UPS".	MAXIMUM CONDUIT LENGTH 64'-0"
(18)	3"ø	CONDUIT FROM "B" TO "B2". MINIMUM BENDING RADIUS 4 1/2".	MAXIMUM CONDUIT LENGTH 13'-0"

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE.
CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE.
KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.
CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE.
PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.
PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIRMENTS AND BUILDING STRCTURE. THOSE THAT ARE NOT INDICATED OR INTERFER WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE.
6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.
7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

CABLE PROTECTION

CABLES ARE NOT PLENUM RATED. ALL CABLES MUST BE ROUTED IN CABLE DUCTS OR CABLE CONDUITS.

DRAWING CROSS-REFERENCE TABLE*

SIEMENS DRAWING#	DRAWING LOCATION (THIS SET)
E-101	E5.01
E-102	E5.02

*WHERE THE SIEMENS INSTALLATION DRAWINGS MAKE REFERENCE TO OTHER SIEMENS DRAWINGS USE THIS CROSS-REFERENCE TABLE TO LOCATE THE SHEET WITHIN THIS SET OF DRAWINGS. A COMPLETE SET OF SIEMENS DRAWINGS ARE ALSO AVAILABLE FOR REFERENCE IN A STAND-ALONE SET.

SIEMENS REFERENCE DRAWING

NOTE: THIS DRAWING IS BASED ON DRAWINGS AND A DESIGN PREPARED BY SIEMENS. ALL WORK INDICATED TO BE BY CONTRACTOR IS PART OF THIS CONTRACT. COORDINATE WITH THE GC TO CONFIRM TRADE RESPONSIBILITY.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

CLARK KJOS ARCHITECTS
621 SW Alder St, Suite 700
Portland, OR 97205
Phone: 503.224.4848

JAY G. JACKSON — STATE OF WASHINGTON — 39064 — REGISTERED PROFESSIONAL ENGINEER
07/01/2021

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

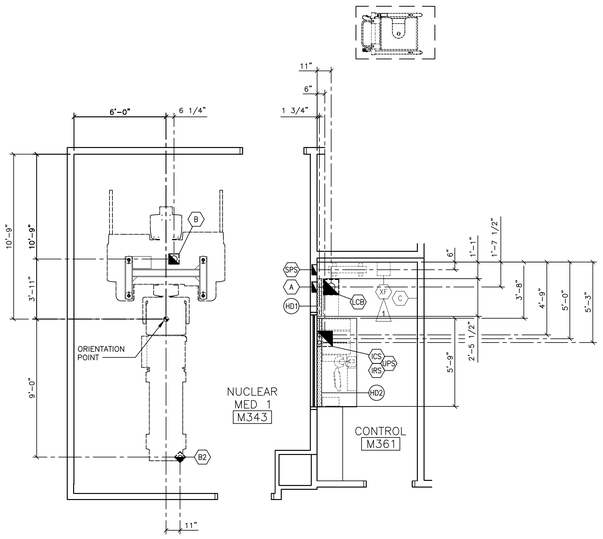
ISSUE DATE: 07.02.21
REVISIONS:

CONSTRUCTION DOCUMENTS

IMAGING INSTALL
DRAWINGS - LEVEL 03

E5.01

B-21-0829



ELECTRICAL DIMENSION PLAN

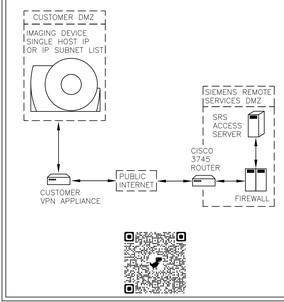
SCALE: 1/4" = 1'-0"

SIEMENS SMART REMOTE SERVICE

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS SMART REMOTE SERVICES TO DETERMINE BEST IMPLEMENTATION FOR YOUR SITE. CONTACT:

IMCPTSCSRS.DL@SIEMENS-HEALTHINEERS.COM.



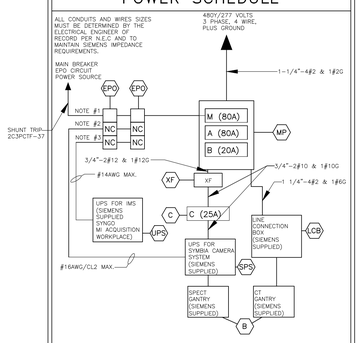
CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL AND GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	XF	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
XF	3	C	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
C	4	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	5	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE MAXIMUM LENGTH 70'-0"
MP	6,A	LCB	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
LCB	7	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE MAXIMUM LENGTH 70'-0"
MP	8	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	9	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	10	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	11,ICS	UPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	12	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
DOOR SAFETY SWITCH	13	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
B	14	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
WARNING LIGHT	15	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
ICS/IRS	16	B	POWER CABLE: 300V.	MAXIMUM LENGTH 59'-0"
ICS/IRS	16	B	CAT 5 CROSS OVER CABLE: 150V.	MAXIMUM LENGTH 59'-0"
ICS/IRS	16	B	UNMARKED CABLE.	MAXIMUM LENGTH 59'-0"
ICS/IRS	16	B	FIBER CABLE.	MAXIMUM LENGTH 59'-0"
LCB	17	UPS	POWER CABLE: 300V.	MAXIMUM LENGTH 70'-0"
B	18	B2	PHS CABLE, POWER CABLE: 300V.	MAXIMUM LENGTH 19'-0"

POWER SCHEDULE



ITEM	QTY	DESCRIPTION				
MP	1	MAIN PANEL WITH CIRCUIT BREAKER FLUSH OR SURFACE MOUNTED.				
M	1	MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED, THE BREAKER TRIPS.				
		MAIN BREAKER AMPS: 80				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480Y/277	3	1	1	5 (NOTE 1)
A	1	BREAKER AMPS: 80 (FOR LINE CONNECTION BOX "LCB" AND CT GANTRY "B")				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480Y/277	3	1	1	5 (NOTE 1)
B	1	BREAKER AMPS: 20 (FOR TRANSFORMER "XF")				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480	1 (L1-L2)	0	1	3
C	1	BREAKER AMPS: 25 (FOR UPS FOR SPECT "SPS")				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		240	1	0	1	3
NOTE 1) ALL WIRES TO BE THE SAME SIZE. UNLESS OTHERWISE NOTED, ALL BREAKERS WILL BE 80% RATED						
XF	1	5kVA, 480V PRIMARY, 240/120V SECONDARY SINGLE-PHASE STEP-DOWN TRANSFORMER WITH SECONDARY BREAKER "C" PROTECTION FOR SPECT GANTRY "B".				
EPO	VARIES	NOTE 1 – EPO CIRCUIT #1 MAIN CIRCUIT BREAKER EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTIVATION. THE EPO MUST BE OF FAIL-SAFE DESIGN. ALL EPO'S TO HAVE MECHANICAL LATCHING MECHANISM. EPO MUST BE RESET BEFORE MAIN BREAKER CAN RESUME OPERATION. CONTACTS AND WIRING CONFIGURATION TO BE DESIGNED BY ELECTRICAL ENGINEER OF RECORD. NOTE 2 – EPO CIRCUIT #2 EPO CONTACTS TO BE NORMALLY CLOSED, WIRED IN SERIES, CONNECTED TO UPS FOR SYMBIA CAMERA SYSTEM. NOTE 3 – EPO CIRCUIT #3 EPO CONTACTS TO BE NORMALLY CLOSED, WIRED IN SERIES, CONNECTED TO UPS FOR IMS. THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.				
UNLESS OTHERWISE NOTED, ALL ITEMS LISTED ON THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.						

FINISHED ROOM HEIGHT

SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16, INTEVO BOLD	MINIMUM 8'-0"
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16, INTEVO BOLD WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-2" MAXIMUM 12'-0"
CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.	

CONDUIT LENGTH CALCULATIONS

IF SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:
VERTICAL DUCTS – 10'-0"
FLOOR PENETRATIONS – 3'-0"

GROUNDING NOTES

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).
2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE IMAGING EQUIPMENT.

SYMBOLS

ALL MAY NOT APPLY

	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
DS	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.

POWER REQUIREMENTS

SYSTEM	SUPPLY VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA)	SUPPLY IMPEDANCE (mΩ)	MAIN BREAKER (AMPS) "M"
SYMBIA INTEVO 6	3ø 480Y/277 ±10%	SEE BELOW	300	80

SYMBIA INTEVO 6
POWER CONSUMPTION:
72.5 kVA MAXIMUM POWER CONSUMPTION
6.2 kVA STANDBY

NOTE: THE SPECT UNITS NEED TO BE WIRED SINGLE PHASE TO NEUTRAL WITH APPROPRIATE BREAKER AND WIRE SIZE.

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN SYMBIA INTEVO OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

DO NOT CONNECT ANY EXTERNAL USERS TO THE SPECT/CT POWER LINE. FOR SYMBIA INTEVO EXCEL AND SYMBIA INTEVO 2, THE IMAGING SYSTEM IMS (ICS, IRS, AND MONITOR) MUST BE CONNECTED VIA THE UPS TO THE LCB. THE FUSE IS ALREADY INTEGRATED IN THE LCB.

AN ON/OFF SWITCH INDICATOR IS INTEGRATED IN THE LCB, A SEPARATE ON/OFF SWITCH MAY BE REQUIRED PER LOCAL CODE.

THE SCANNER AND CONTROL ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EACH EMERGENCY POWER OFF BUTTON.

CUSTOMER SUPPLIED

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

RADIATION WARNING LIGHTS REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH FDA CODES.

EMERGENCY POWER OFF BUTTON SHOULD BE INSTALLED IN BOTH THE SCANNER AND CONTROL ROOM.

POWER DISTRIBUTION

TO ENSURE TROUBLE-FREE OPERATION, WE RECOMMEND THAT THE MAIN POWER LINE RUN DIRECTLY FROM THE HOUSE TRANSFORMER TO THE ON-SITE POWER DISTRIBUTOR.

THE MAIN POWER LINE SHOULD BE ROUTED DIRECTLY FROM THE ON-SITE POWER DISTRIBUTOR TO THE SYMBIA SYSTEM MAIN POWER PANEL.

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

NETWORK COMMUNICATION

SIEMENS IS DEDICATED TO PROVIDING A CYBER SECURE SOLUTION TO OUR CUSTOMERS IN ORDER TO PROTECT HEALTH INFORMATION AND ENABLE UPTIME FOR SYSTEMS. AS A RESULT, ANY SIEMENS MI SPECT AND SPECT/CT COMPUTERS (IE. E.SOFT WORKSTATION, SYMBIA.NET 1ST USER, SYMBIA.NET SERVER, MIWP, SYMBIA ACQUISITION WORKPLACE, ETC.) RUNNING E.SOFT OR MI APPLICATIONS AND CONNECTED AS NETWORK NODES WILL NEED THEIR USER NAME AND PASSWORD TO BE UPDATED TO MATCH THE LATEST SOFTWARE RELEASE USER NAME AND PASSWORD. THE UPDATE TO EXISTING SYSTEMS NEEDS TO BE DONE PRIOR TO THE NEW SYSTEM INSTALLATION. IF THE USER NAME AND PASSWORD OF THE CONNECTED NETWORK NODES ARE NOT UPDATED, THE SYSTEMS WILL BECOME LOCKED OUT.

FLAG NOTES

1. MOUNT 5KVA 480:280V TRANSFORMER ABOVE CEILING.

DRAWING CROSS-REFERENCE TABLE*

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City of Puyallup
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Engineering	Public Works
Fire	Traffic

CLARK KJOS ARCHITECTS, LLC
621 SW Alder St., Suite 700
Portland, OR 97205
Phone: 503/224-4848

JAY G. JACKSON
STATE OF WASHINGTON
39064
REGISTERED
PROFESSIONAL ENGINEER
07/01/2021

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.21
REVISIONS:

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IMAGING INSTALL DRAWINGS - LEVEL 03

E5.02

B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PANEL SCHEDULE

PANEL: **4E3PCTA** LOCATION: VOLTS: 480 Y/ 277 P 3 W: 4
AMP: **800** MLO ☐ MCB ☒ AIC RATING: 10,000 MOUNT: ☒ SURFACE ☐ FLUSH
TYPE: EXISTING ☒ NEW ☐ STYLE: NEUTRAL: 100% FED FROM:

CIRCUIT DESCRIPTION	LOAD TYPE	LOAD KVA	CKT BKR	P	CIR #	PH	CIR #	P	CKT BKR	LOAD KVA	LOAD TYPE	CIRCUIT DESCRIPTION
X-RAY CT SCAN 1 ROOM 361 NOTE 4	MISC	15.00	125	3	1	A	2	3	110	5.00	MISC	X-RAY DIGITAL RAD RM M384 NOTE 5
X-RAY CT SCAN 1 ROOM 361	MISC	15.00	-	-	3	B	4	-	-	5.00	MISC	X-RAY DIGITAL RAD RM M384
X-RAY CT SCAN 1 ROOM 361	MISC	15.00	-	-	5	C	6	-	-	5.00	MISC	X-RAY DIGITAL RAD RM M384
X-RAY INTERVENTIONAL RAD 1 RM M336 NOTE 5	MISC	5.00	110	3	7	A	8	3	125			SPARE
X-RAY INTERVENTIONAL RAD 1 RM M336	MISC	5.00	-	-	9	B	10	-	-			SPARE
X-RAY INTERVENTIONAL RAD 1 RM M336	MISC	5.00	-	-	11	C	12	-	-			SPARE
X-RAY CATH 1 RM M333 NOTE 5	MISC	4.67	100	3	13	A	14	3	30		MISC	TVSS
X-RAY CATH 1 RM M333	MISC	4.67	-	-	15	B	16	-	-		MISC	TVSS
X-RAY CATH 1 RM M333	MISC	4.67	-	-	17	C	18	-	-		MISC	TVSS
X-RAY INTERVENTIONAL RAD 2 RM M337 NOTE 5	MISC	4.67	100	3	19	A	20	1	20			SPARE
X-RAY INTERVENTION	MISC	4.67	-	-	21	B	22	1	20			SPARE
X-RAY INTERVENTIONAL RAD 2 RM M337	MISC	4.67	-	-	23	C	24	1	20			SPARE
X-RAY CATH 2 RM M332 NOTE 5	MISC	4.17	80	3	25	A	26	**3**	**80**	**2.42**	**MISC**	**NUC MEDICINE CT SCAN - ROOM 341 NOTE 1 & 5**
X-RAY CATH 2 RM M332	MISC	4.17	-	-	27	B	28	**-**	**-**	**2.42**	**MISC**	**-**
X-RAY CATH 2 RM M332	MISC	4.17	-	-	29	C	30	**-**	**-**	**2.42**	**MISC**	**-**
SPACE					31	A	32	3	225	47.17	MISC	CT SCAN #2 - ROOM M362 NOTE 1
SPACE					33	B	34	-	-	47.17	MISC	-
SPACE					35	C	36	-	-	47.17	MISC	-
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE
		0								0		

NEC DEMAND CALCULATIONS

LOAD DESCRIPTION:	LOAD TYPE:	CONNECTED	CALCULATED DEMAND
LIGHTING	**LTG**	0.00 KVA	0.00 KVA (125%)
HOSPITAL LIGHTING	**HLTG**	0.00 KVA	0.00 KVA (40%<50KVA, 20% REST)
HOSPITAL RECEPT	**HREC**	0.00 KVA	0.00 KVA (40%<50KVA, 20% REST)
LARGEST MOTOR		0.00 KVA	0.00 KVA (125%)
REMAINING MOTORS	**MTR**	0.00 KVA	0.00 KVA (100%)
GEN PURPOSE RECPT	**REC**	0.00 KVA	0.00 KVA (50% > 10KVA)
COMPUTER RECPT	**COMP**	0.00 KVA	0.00 KVA (100%)
EQUIP / OTHER CONTINUOUS	**MISC**	264.25 KVA	264.25 KVA (100%)
HEATING	**HTG**	0.00 KVA	0.00 KVA (100%)
ELEVATOR	**ELEV**	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	**KIT**	0.00 KVA	0.00 KVA @ 65%
TOTALS		264.25 KVA	264.25 KVA
		317.84 AMPS	317.84 AMPS
FEEDER / OCP BASED CAPACITY:		665.11 KVA	800.0A <= FEEDER OR OCP CAPCITY*

LOAD TYPE NOTES: *overwrite when applicable

LARGEST MTR LARGEST CONNECTED MOTOR LOAD IS ENTERED HERE AS DIRECT LINK TO LOAD
"COMB" COMBINATION OF DIFFERENT LOAD TYPES
"HLTG" & "HREC" HOSPITAL LIGHTING & RECEPTS, NON-CONTINUOUS LOADS ONLY

CONNECTED PHASE LOADING

PHASE A: 88.08 KVA
PHASE B: 88.08 KVA
PHASE C: 88.08 KVA
Total Connected Load = 264.25 <= includes double lug loads
Load Checker Total = 264.25 <= includes double lug loads

NOTES:

1 IMAGING LOAD IS 50% OF MOMENTARY LOAD
2 CIRCUITS GROUPS WITH SHARED NEUTRALS SHALL BE PROVIDED WITH MULTI-POLE BREAKERS OR WITH MULTIPLE SINGLE POLE BREAKERS AND HANDLE TIES PER NEC 210.4(B). FIELD VERIFY HANDLE-TIE LOCATIONS.
3 PROVIDE NEW BREAKER AS INDICATED.
4 IMAGING LOAD IS 25% OF MOMENTARY LOAD
5 IMAGING LOAD IS 10% OF MOMENTARY LOAD

CAPACITY	
USED	AVAIL
264.25	665.108
317.8A	800.0A

PANEL SCHEDULE

PANEL: **2C3PCTF** LOCATION: VOLTS: 208 Y/ 120 P 3 W: 4
AMP: **400** MLO ☒ MCB ☐ AIC RATING: 22,000 MOUNT: ☐ SURFACE ☒ FLUSH
TYPE: EXISTING ☒ NEW ☐ STYLE: NEUTRAL: 100% FED FROM: WEST RISER ECB #3A

CIRCUIT DESCRIPTION	LOAD TYPE	LOAD KVA	CKT BKR	P	CIR #	PH	CIR #	P	CKT BKR	LOAD KVA	LOAD TYPE	CIRCUIT DESCRIPTION
EQUIP M335.3 PHYS WORK RM PRINTER	MISC	1.00	20	1	1	A	2	1	20	1.20	LTG	LIGHTING LEVEL 3 RADIOLOGY
REC M335.3 PHYS WORK RM	REC	1.08	20	1	3	B	4	1	20	1.20	LTG	LIGHTING LEVEL 3 RADIOLOGY CONTROL
EQUIP M335.3 PHYS WORK RM PRINTER	MISC	1.00	20	1	5	C	6	1	20	1.20	LTG	LIGHTING LEVEL 3 RADIOLOGY
EQUIP M332.3 STOR BLANKET WARMER	MISC	1.00	20	1	7	A	8	1	20	1.20	LTG	LIGHTING LEVEL 3 PAC
EQUIP M336.1	MISC	1.00	20	1	9	B	10	1	20	1.20	LTG	LIGHTING LEVEL 3 PAC
REC M336.1 CONTROL	REC	1.08	20	1	11	C	12	1	20	1.20	LTG	LIGHTING LEVEL 3 ECHO
EQUIP M343.1 COMP/DATA COPIER	MISC	1.00	20	1	13	A	14	1	20	1.20	LTG	LIGHTING LEVEL 3 CT SCAN 1 RM M361
REC M361 CONTROL	**REC**	**0.72**	**20**	**1**	15	B	16	1	20	1.00	MISC	EQUIP M333 CATH 1 BOOM
EQUIP M343.1 COMP/DATA PRINTER	MISC	1.00	20	1	17	C	18	1	20	1.00	MISC	EQUIP M333 CATH 1 BOOM
EQUIP M343.1 COMP/DATA COPY/FAX	MISC	1.00	20	1	19	A	20	1	20	1.00	MISC	EQUIP M333 CATH 2 BOOM
REC M343.1 COMP/DATA	REC	1.08	20	1	21	B	22	1	20	1.00	MISC	EQUIP M333 CATH 2 BOOM
LIGHTING LEVEL 3 CATH 1 RM M333.1	LTG	1.20	20	1	23	C	24	1	20	1.00	MISC	EQUIP M332 CATH 2 FLOOR AND CRASH CART
LIGHTING LEVEL 3 CATH 1 RM M333.1	LTG	1.20	20	1	25	A	26	1	20	1.08	REC	REC M332 CATH 2 FLOOR & WALL
LIGHTING LEVEL 3 CATH 2 RM M333.1	LTG	1.20	20	1	27	B	28	1	20	1.08	REC	REC M338.1 HOLDING
LIGHTING LEVEL 3 CATH 2 RM M333.1	LTG	1.20	20	1	29	C	30	1	20	1.00	MISC	EQUIP DDC/BMS PWR SUPPLY W ELEC RM
RM M336 TOMBSTONE	MISC	1.00	20	1	31	A	32	1	20	1.00	MISC	EQUIP LEVEL 4 CONTROLLER
RM M336 TOMBSTONE	MISC	1.00	20	1	33	B	34	1	20	1.00	MISC	EQUIP DDC/BMS PWR SUPPLY W ELEC RM
AUTO DOOR RM 343 NUC MED	**MISC**	**1.20**	**20**	**1**	35	C	36	1	20			SPARE
SHUNT TRIP	**MISC**	**0.10**	20	1	37	A	38	1	20			SPARE
SPARE			20	1	39	B	40	1	20	1.00	MISC	EQUIP M332 CATH 2 LASER
SPARE			20	1	41	C	42	1	20	1.00	MISC	EQUIP M332 CATH 2 LASER
	0									0		

NEC DEMAND CALCULATIONS

LOAD DESCRIPTION:	LOAD TYPE:	CONNECTED	CALCULATED DEMAND
LIGHTING	**LTG**	13.20 KVA	16.50 KVA (125%)
HOSPITAL LIGHTING	**HLTG**	0.00 KVA	0.00 KVA (40%<50KVA, 20% REST)
HOSPITAL RECEPT	**HREC**	0.00 KVA	0.00 KVA (40%<50KVA, 20% REST)
LARGEST MOTOR		0.00 KVA	0.00 KVA (125%)
REMAINING MOTORS	**MTR**	0.00 KVA	0.00 KVA (100%)
GEN PURPOSE RECPT	**REC**	6.12 KVA	6.12 KVA (50% > 10KVA)
COMPUTER RECPT	**COMP**	0.00 KVA	0.00 KVA (100%)
EQUIP / OTHER CONTINUOUS	**MISC**	20.30 KVA	20.30 KVA (100%)
HEATING	**HTG**	0.00 KVA	0.00 KVA (100%)
ELEVATOR	**ELEV**	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	**KIT**	0.00 KVA	0.00 KVA @ 65%
TOTALS		39.62 KVA	42.92 KVA
		109.97 AMPS	119.13 AMPS
FEEDER / OCP BASED CAPACITY:		144.11 KVA	400.0A <= FEEDER OR OCP CAPCITY*

LOAD TYPE NOTES: *overwrite when applicable

LARGEST MTR LARGEST CONNECTED MOTOR LOAD IS ENTERED HERE AS DIRECT LINK TO LOAD
"COMB" COMBINATION OF DIFFERENT LOAD TYPES
"HLTG" & "HREC" HOSPITAL LIGHTING & RECEPTS, NON-CONTINUOUS LOADS ONLY

CONNECTED PHASE LOADING

PHASE A: 12.98 KVA
PHASE B: 13.56 KVA
PHASE C: 13.08 KVA
Total Connected Load = 39.62 <= includes double lug loads
Load Checker Total = 39.62 <= includes double lug loads

NOTES:

1
2 CIRCUITS GROUPS WITH SHARED NEUTRALS SHALL BE PROVIDED WITH MULTI-POLE BREAKERS OR WITH MULTIPLE SINGLE POLE BREAKERS AND HANDLE TIES PER NEC 210.4(B). FIELD VERIFY HANDLE-TIE LOCATIONS.

CAPACITY	
USED	AVAIL
42.92	144.107
119.1A	400.0A

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JAY G. JACKSON
STATE OF WASHINGTON
29064
REGISTERED
PROFESSIONAL ENGINEER
07/01/2021

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.21
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CONSTRUCTION DOCUMENTS

PANEL SCHEDULES

E6.01

B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

MULTICARE - GOOD SAMARITAN HOSPITAL
LOAD SUMMARY - EMERGENCY POWER

LOAD SUMMARY: **EQUIP DIST. SWBD 4EAPCTA**

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	Seasonal Adjustment Factor (SAF)	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
	N/A	Daily Tower	4EAPCTB	480V	800A						1.00	1.25	.0KVA		.0KVA	0A	
	N/A	Daily Tower	Z1 RISER	480V	1000A						1.00	1.25	.0KVA	155.5KVA	155.5KVA	187A	NEW IMAGING LOAD. SEE 4E3PCTA PANEL. PLUS ADD 10% OF NEW 140KVA UNIT (1ST FLOOR)
	N/A	Daily Tower	4E8PC1B	480V	800A						1.00	1.25	.0KVA		.0KVA	0A	
MP6	N/A	Daily Tower	2EAPCTA	480V	175A	8/12/18	25.50A			21.2KVA	1.00	1.25	26.5KVA		26.5KVA	32A	
	N/A	Daily Tower	2EAPCTB	480V	175A						1.00	1.25	.0KVA		.0KVA	0A	
	N/A	Daily Tower	2E4PCTA	480V	175A						1.00	1.25	.0KVA		.0KVA	0A	
	N/A	Daily Tower	2E4PCTC	480V	175A						1.00	1.25	.0KVA		.0KVA	0A	
MP5		EQUIP DIST. SWBD 4EAPCTA	4EAPCTA	480V	4000A	6/4/18		384.0KW	0.90	426.7KVA	1.00	1.25	533.3KVA	155.5KVA	688.8KVA	829A	

LOAD SUMMARY: **EMERG DIST SWGR E1**

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	Seasonal Adjustment Factor (SAF)	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
MP7	ATS-Y1	Daily Tower	4CAPCTA	480V	1200A	6/1/19		152.0KW	0.90	168.9KVA	1.00	1.25	211.1KVA	1.8KVA	212.9KVA	256A	NEW LOAD IS FROM 2C3PCTA
MP8	ATS-X	Daily Tower	4LAPCTA	480V	600A	6/6/18		42.0KW	0.90	46.7KVA	1.00	1.25	58.3KVA		58.3KVA	70A	
MP9	ATS-Z2	Daily Tower	4E4PCTA	480V	3000A	6/27/18		218.0KW	0.90	242.2KVA	1.00	1.25	302.8KVA		302.8KVA	364A	
	N/A	Daily Tower	SWGR E2	480V	2000A						1.00	1.25	.0KVA		.0KVA	0A	
MP3		EMERG DIST SWGR E1	5HDSB	480V	4000A								572.2KVA	1.8KVA	574.0KVA	690A	

LOAD SUMMARY: **EMERG DIST SWGR E2**

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	Seasonal Adjustment Factor (SAF)	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
	FIRE PUMP	Daily Tower	FIRE PUMPS	480V	1600A						1.00	1.25	79.8KVA		79.8KVA	96A	75HP Fire Pump
MP3	ATS-Y2	Daily Tower	4CAPCTB	480V	1200A	6/13/18		68.0KW	0.90	75.6KVA	1.00	1.25	94.4KVA		94.4KVA	114A	NEW LOAD IS FROM 2C1PCTF
MP5	ATS-Z1	Daily Tower	4EAPCTA	480V	2000A	6/4/18		384.0KW	0.90	426.7KVA	1.00	1.25	533.3KVA	155.5KVA	688.8KVA	829A	
MP10	ATS-ELEV	Daily Tower	4EAPCTD	480V	600A	6/8/18		125.0KW	0.90	138.9KVA	1.00	1.25	173.6KVA		173.6KVA	209A	
MP11	ATS-PKG	Daily Tower	PARKING	480V	400A	6/24/18	6.24A			5.2KVA	1.00	1.25	6.5KVA		6.5KVA	8A	
N/A		EMERG DIST SWGR E2	SWGR E2	480V	4000A						1.00	1.25	887.7KVA	155.5KVA	1,043.2KVA	1255A	

LOAD SUMMARY: **EMERG DIST MV SWGR PMVS-A/B**

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	Seasonal Adjustment Factor (SAF)	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
	ATS-PS#12	Central Plant	PAD SW#12	12470V	600A												Optional Standby loads on Load Shed System
	N/A	Central Plant	SWGR E1	12470V	300A						1.00	1.25	572.2KVA	1.8KVA	574.0KVA	27A	
	N/A	Central Plant	SWGR E2	12470V	300A						1.00	1.25	887.7KVA	155.5KVA	1,043.2KVA	48A	
	N/A	Central Plant	4GEN-2CUP	12470V	150A						1.00	1.25	2,500.0KVA		2,500.0KVA	116A	Metering not available. Load = Transf rating
MP11		EMERG DIST MV SWGR PMVS-A/B	PMVS-A/B	12470V	1200A	January, 2019*	36.72A			793.0KVA	1.00	1.25	3,959.9KVA	157.3KVA	4,117.2KVA	191A	System Capacity is 5,000KVA

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Multicare Good Samaritan Hospital
401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.21
REVISIONS:

CONSTRUCTION DOCUMENTS

LOAD SUMMARY
EMMERGENCY POWER

E6.02

B-21-0829

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

MULTICARE GOOD SAMARITAN HOSPITAL
LOAD SUMMARY - NORMAL POWER

PRIMARY FEEDER

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
N/A		TRANSF TNPCT1	4NAPCTA	12470V	200A						1.25	0KVA	1.8KVA	**1,986.7KVA**	**92A**	
MP-1		TRANSF TNPCT2	4NAPCTB	12470V	200A	6/6/18		445.0KW	0.90	494.4KVA	1.25	618.1KVA	**155.5KVA**	**773.6KVA**	**36A**	
	N/A	**PRIMARY FEEDER**	**1HUSSA/B**	**12470V**	**200A**									**2,760.3KVA**	**128A**	

NORMAL SWGR 4NAPCTA - DALLY TOWER

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
N/A	N/A	Dally Tower	CNTR RISER-2	480V	500A					.0KVA	1.25	.0KVA		**415.5KVA**	**500A**	LOAD IS WORST CASE (MAX BUS CAPACITY)
N/A	N/A	Dally Tower	CNTR RISER-1	480V	1200A					.0KVA	1.25	.0KVA		**997.2KVA**	**1199A**	LOAD IS WORST CASE (MAX BUS CAPACITY)
MP7	ATS-Y1	Dally Tower	SWBD 4CAPCTA	480V	1200A	6/1/18		152.0KW	0.90	168.9KVA	1.25	211.1KVA	**1.8KVA**	**212.9KVA**	**256A**	
MP8	ATS-X	Dally Tower	SWBD 4LAPCTA	480V	600A	6/6/18		42.0KW	0.90	46.7KVA	1.25	58.3KVA		**58.3KVA**	**70A**	
MP9	ATS-Z2	Dally Tower	SWBD 4E4PCTA	480V	3000A	6/27/18		218.0KW	0.90	242.2KVA	1.25	302.8KVA		**302.8KVA**	**364A**	
		NORMAL SWGR 4NAPCTA - DALLY TOWER	**4NAPCTA**	**480V**	**4000A**								**1.8KVA**	**1,986.7KVA**	**2390A**	

NORMAL SWGR 4NAPCTB - DALLY TOWER

Meter Point#	ATS	Location	Panel Fed	Voltage	Amp Rating	Metering Date*	Metered Demand Amps	Metered Demand kW	PF Adjustment	Metered kVA	NEC Demand Factor	kVA Demand	New Load Added After Metering Date	Total Demand Load	Demand Amps	Notes:
MP2	N/A	Dally Tower	E. NORMAL RSR	480V	500A	7/30/18	124.44A		0.90	103.5KVA	1.25	129.3KVA		**129.3KVA**	**156A**	
MP3	ATS-Y2	Dally Tower	SWBD 4CAPCTB	480V	1200A	6/13/18		68.0KW	0.90	75.6KVA	1.25	94.4KVA		**94.4KVA**	**114A**	
MP5	ATS-Z1	Dally Tower	SWGR 4EAPCTA	480V	2000A	6/4/18		384.0KW	0.90	426.7KVA	1.25	533.3KVA	**155.5KVA**	**688.8KVA**	**829A**	
N/A	N/A	Dally Tower	W. NORMAL RSR	480V	800A				0.90	.0KVA	1.25	.0KVA		**664.8KVA**	**800A**	LOAD IS WORST CASE (MAX BUS CAPACITY)
MP11	ATS-PARK	Parking Garage	4L1PS2A	480V	400A	8/24/18	6.24A		0.90	5.2KVA	1.25	6.5KVA		**6.5KVA**	**8A**	
N/A	N/A	Dally Tower	4NAPCTD	480V	100A				0.90	.0KVA	1.25	0KVA		**83.1KVA**	**100A**	LOAD IS WORST CASE (MAX BUS CAPACITY)
MP10	ATS-ELEV	Dally Tower	SWBD 4EAPCTD	480V	600A	6/6/18		125.0KW	0.90	138.9KVA	1.25	173.6KVA		**173.6KVA**	**209A**	**0**
N/A	FP1/FP2	Dally Tower	FIRE PUMP 75HP	480V	1600A					.0KVA	1.25	79.8KVA		**79.8KVA**	**96A**	
MP1		**NORMAL SWGR 4NAPCTB - DALLY TOWER**	**4NAPCTB**	**480V**	**4000A**	6/6/18		**445.0KW**	**0.90**	**494.4KVA**	**1.25**	**618.1KVA**	**155.5KVA**	**773.6KVA**	**930A**	

*METERING DATA INDICATED BY KW IS FROM OWNER'S SYSTEM-INTEGRATED POWER MONITORING SYSTEM. AMP READINGS ARE 30-DAY RECORDINGS. ALL ARE DEEMED VALID BY THE EOR.

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B-21-0829

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STATE OF WASHINGTON
39064
REGISTERED
PROFESSIONAL ENGINEER
07/01/2021

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital

401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.2

REVISIONS:

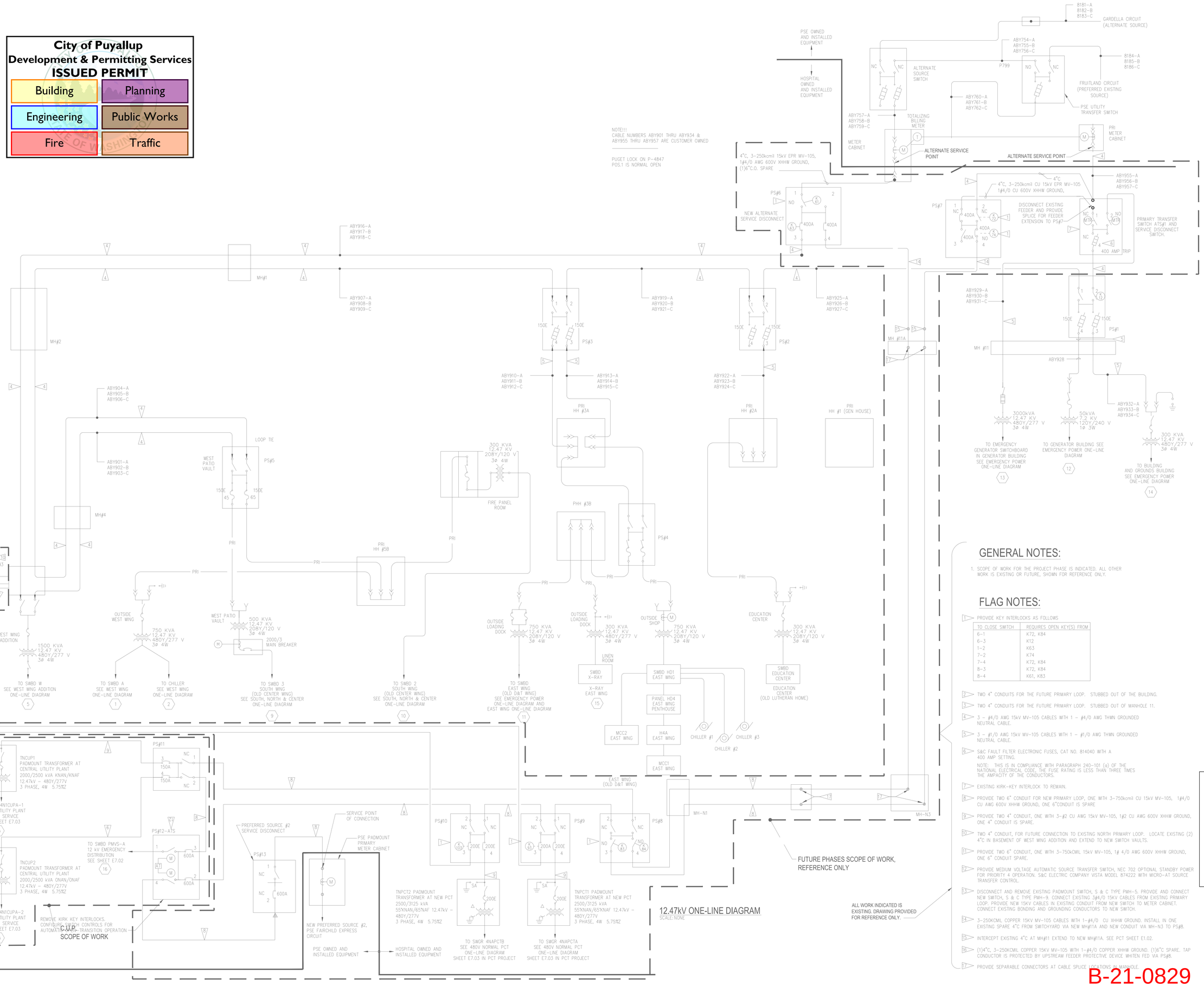
CONSTRUCTION DOCUMENTS

LOAD SUMMARY - NORMAL POWER

E6.03

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



GENERAL NOTES:

1. SCOPE OF WORK FOR THE PROJECT PHASE IS INDICATED. ALL OTHER WORK IS EXISTING OR FUTURE, SHOWN FOR REFERENCE ONLY.

FLAG NOTES:

1. PROVIDE KEY INTERLOCKS AS FOLLOWS

TO CLOSE SWITCH	REQUIRES OPEN KEY(S) FROM
6-1	K72, K84
6-3	K12
1-2	K63
7-2	K74
7-4	K72, K84
8-3	K72, K84
8-4	K61, K83

2. TWO 4" CONDUITS FOR THE FUTURE PRIMARY LOOP. STUBBED OUT OF THE BUILDING.
3. TWO 4" CONDUITS FOR THE FUTURE PRIMARY LOOP. STUBBED OUT OF MANHOLE 11.
4. 3 – #4/0 AWG 15kV MV-105 CABLES WITH 1 – #4/0 AWG THWN GROUNDED NEUTRAL CABLE.
5. 3 – #1/0 AWG 15kV MV-105 CABLES WITH 1 – #1/0 AWG THWN GROUNDED NEUTRAL CABLE.
6. S&C FAULT FILTER ELECTRONIC FUSES, CAT NO. 814040 WITH A 400 AMP SETTING.
   NOTE: THIS IS IN COMPLIANCE WITH PARAGRAPH 240-101 (a) OF THE NATIONAL ELECTRICAL CODE, THE FUSE RATING IS LESS THAN THREE TIMES THE AMPACITY OF THE CONDUCTORS.
7. EXISTING KIRK-KEY INTERLOCK TO REMAIN.
8. PROVIDE TWO 6" CONDUIT FOR NEW PRIMARY LOOP, ONE WITH 3–750kcmil CU 15kV MV-105, 1#4/0 CU AWG 600V XHHW GROUND, ONE 6"CONDUIT IS SPARE
9. PROVIDE TWO 4" CONDUIT, ONE WITH 3–#2 CU AWG 15kV MV-105, 1#2 CU AWG 600V XHHW GROUND, ONE 4" CONDUIT IS SPARE.
10. TWO 4" CONDUIT, FOR FUTURE CONNECTION TO EXISTING NORTH PRIMARY LOOP. LOCATE EXISTING (2) 4"C IN BASEMENT OF WEST WING ADDITION AND EXTEND TO NEW SWITCH VAULTS.
11. PROVIDE TWO 6" CONDUIT, ONE WITH 3–750kCMIL 15kV MV-105, 1# 4/0 AWG 600V XHHW GROUND, ONE 6" CONDUIT SPARE.
12. PROVIDE MEDIUM VOLTAGE AUTOMATIC SOURCE TRANSFER SWITCH, NEC 702 OPTIONAL STANDBY POWER FOR PRIORITY 4 OPERATION. S&C ELECTRIC COMPANY VISTA MODEL 874222 WITH MICRO-AT SOURCE TRANSFER CONTROL.
13. DISCONNECT AND REMOVE EXISTING PADMOUNT SWITCH, S & C TYPE PMH-5. PROVIDE AND CONNECT NEW SWITCH, S & C TYPE PMH-9. CONNECT EXISTING 3#4/0 15KV CABLES FROM EXISTING PRIMARY LOOP. PROVIDE NEW 15KV CABLES IN EXISTING CONDUIT FROM NEW SWITCH TO METER CABINET. CONNECT EXISTING BONDING AND GROUNDING CONDUCTORS TO NEW SWITCH.
14. 3–250KCMIL COPPER 15KV MV-105 CABLES WITH 1–#4/0 CU XHHW GROUND. INSTALL IN ONE EXISTING SPARE 4"C FROM SWITCHYARD VIA NEW MH#11A AND NEW CONDUIT VIA MH-N3 TO PS#8.
15. INTERCEPT EXISTING 4"C AT MH#1 EXTEND TO NEW MH#11A. SEE PCT SHEET E1.02.
16. (1)4"C, 3–250KCMIL COPPER 15KV MV-105 WITH 1–#4/0 COPPER XHHW GROUND. (1)6"C SPARE. TAP CONDUCTOR IS PROTECTED BY UPSTREAM FEEDER PROTECTIVE DEVICE WHITEN FED VIA PS#8.
17. PROVIDE SEPARABLE CONNECTORS AT CABLE SPLICE LOCATIONS IN MANHOLE.

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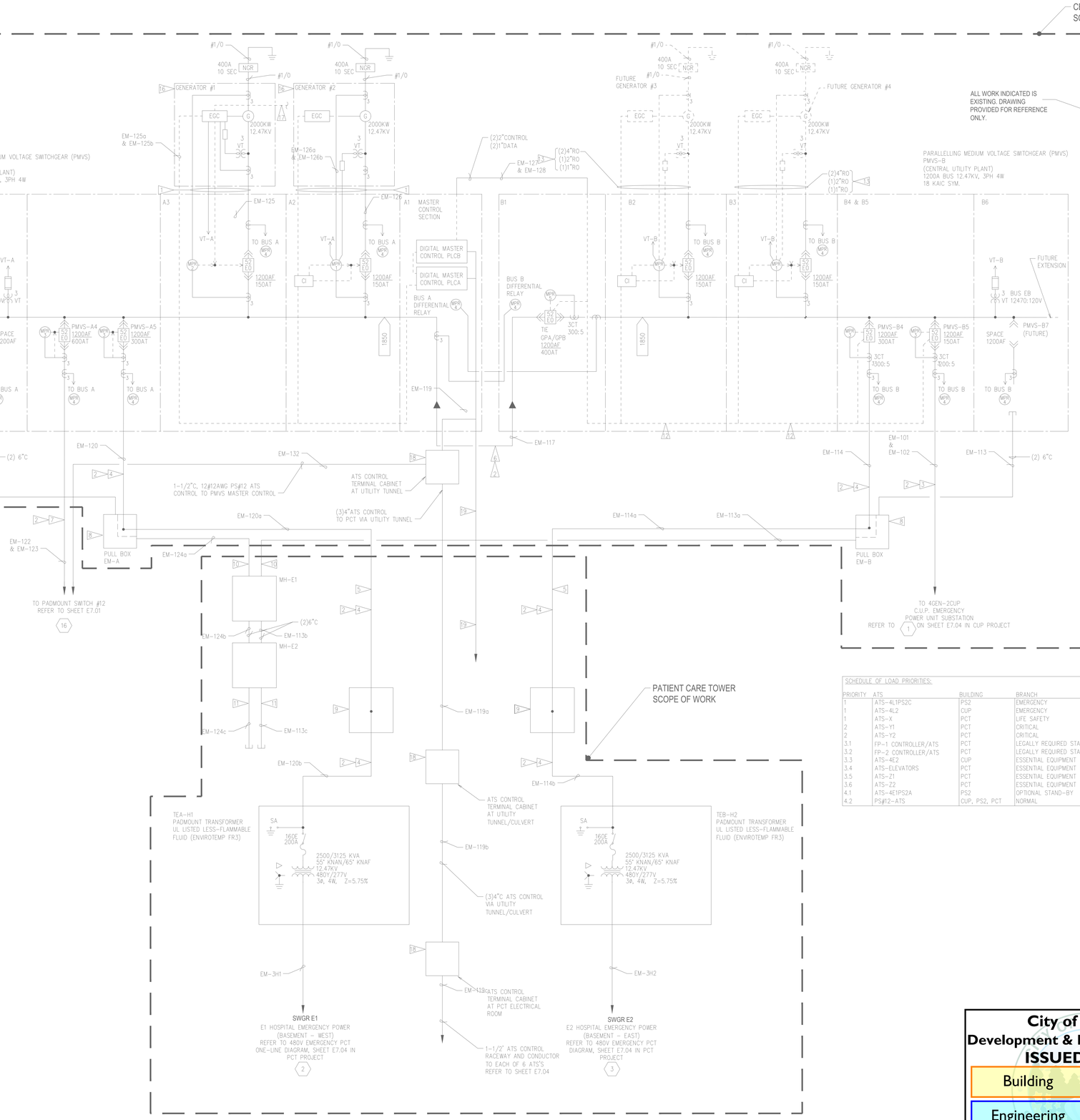
CONSTRUCTION DOCUMENTS

ONE-LINE DIAGRAM

E7.01

B-21-0829



PRIMARY EMERGENCY ONE-LINE DIAGRAM
SCALE: NONE

GENERAL NOTES

1. SCOPE OF WORK FOR THE PROJECT PHASE IS INDICATED. ALL OTHER IS EXISTING OR FUTURE, SHOWN FOR REFERENCE ONLY.

FLAG NOTES

1. PROVIDE (1) 4"C, 3-#2 CU AWG 15KV MV-105, 1-#2 AWG CU 600V XHHW GROUND (POWER) (1)4" RO SPARE, (1) 2"RO FOR CONTROL, (1) 1"RO FOR DATA ROUTED WITH GENERATOR POWER FEEDER.
2. PROVIDE SPARE RACEWAY SAME SIZE AS FOR FEEDER, ROUTED WITH THE FEEDER RACEWAY.
3. (1) 4"R, 3-#2 AWG 15kV CU MV-105, 1-#2 AWG, 600V CU XHHW GROUND.
4. (1) 6"R, 3-#4/0 AWG 15KV AL MV-105, 1#4/0 CU AWG, 600V AL XHHW GROUND.
5. FEEDER ROUTED FROM CUP SWITCHGEAR TO PATIENT CARE TOWER VIA UTILITY TUNNEL. PROVIDE PULL BOXES AND CONDUIT IN UTILITY TUNNEL FOR FEEDER TRANSITION FROM UNDERGROUND TO TUNNEL INSTALLATION.
6. SWITCHGEAR TIE FEEDER, (1) 6"R, 3#350kcmil 15kV AL MV-105, 1#350kcmil 600V AL XHHW GROUND, (1) 6" RO (SPARE).
7. EMERGENCY TO NORMAL FEEDER FOR OPTIONAL SERVICE TO SOUTH 12.47KV NORMAL POWER SYSTEM, (1) 6"R, 3#750KCMIL AL 15KV MV-105, 1#4/0 AWG CU 600V XHHW GROUND.
8. PROVIDE PULL BOX 72"H x 80"W x 18"D NEMA 3 WITH HINGED COVERS FOR FEEDER IN UTILITY TUNNEL AT CENTRAL PLANT. PROVIDE BARRIERS IN PULLBOX TO SEPARATE THE CIRCUITS.
9. PROVIDE PULL BOX FOR 12470 VOLT EMERGENCY FEEDERS TO PCT TRANSFORMERS. PULLBOX LOCATED IN UTILITY TUNNEL AT TUNNEL/CULVERT SWITCH VAULT AREA. REFER TO SHEET E1.01. PROVIDE WATER TIGHT CONDUIT FITTINGS AND SEALS FOR CONDUIT PENETRATIONS INTO UTILITY TUNNEL.
10. (2)6"C TO SITE VIA UTILITY TUNNEL FOR FUTURE PHASES 12.47KV EMERGENCY POWER SERVICE.
11. (2)6"C RUN EAST TO NEAR MH-N3 FOR EXTENSION TO FUTURE PHASES 12.47KV EMERGENCY POWER SERVICE. REFER TO SHEET E1.02.
12. PROVIDE GENERATOR SWITCHGEAR SECTION WITH INTERCONNECTING WIRING, TERMINALS AND CONNECTIONS READY FOR FUTURE GENERATOR OPERATION.
13. CONDUITS TO 5 FEET OUTSIDE NORTH BUILDING FOUNDATION AND CAPPED FOR FUTURE USE.
14. PROVIDE KEY INTERLOCKS TO ALLOW ONLY THREE OUT OF FOUR MAIN AND TIE BREAKERS CLOSED AT ANY TIME. A CLOSED CIRCUIT BREAKER MUST BE OPENED TO TRANSFER A KEY TO ANOTHER OPEN CIRCUIT BREAKER.
15. THIS DRAWING AMMENDS AND SUPERCEDES DRAWING ISSUED WITH SWITCHGEAR AND GENERATOR PRE-PURCHASE PACKAGE.
16. RELAYING AND GENERATOR CONTROLS VARY WITH GENERATOR MANUFACTURER, TWO ACCEPTABLE CONCEPTS ARE INDICATED IN A2 AND A3. IN A2 THE EGC HAS ALL THE FUNCTIONALITY OF MPRT, EXCEPT 87G. B2 AND B3 SHALL MATCH SELECTED CONCEPT.
17. PERMISSIVE PARALLELLING EXTENDED TO EACH EGC.
18. PROVIDE TERMINAL CABINET 36"H x 48"W x 12"D NEMA 3 WITH HINGED COVER.
19. 1" ATS CONTROL RACEWAY AND CONDUCTOR VIA UTILITY TUNNEL/CULVERT TO EACH OF 2 FIRE PUMP ATS/CONTROLLERS. REFER TO SHEET E7.04.

SCHEDULE OF LOAD PRIORITIES:

PRIORITY	ATS	BUILDING	BRANCH
1	ATS-4L1PS2C	PS2	EMERGENCY
1	ATS-4L2	CUP	EMERGENCY
1	ATS-X	PCT	LIFE SAFETY
2	ATS-Y1	PCT	CRITICAL
2	ATS-Y2	PCT	CRITICAL
3.1	FP-1 CONTROLLER/ATS	PCT	LEGALLY REQUIRED STAND-BY
3.2	FP-2 CONTROLLER/ATS	PCT	LEGALLY REQUIRED STAND-BY
3.3	ATS-4E2	CUP	ESSENTIAL EQUIPMENT
3.4	ATS-ELEVATORS	PCT	ESSENTIAL EQUIPMENT
3.5	ATS-Z1	PCT	ESSENTIAL EQUIPMENT
3.6	ATS-Z2	PCT	ESSENTIAL EQUIPMENT
4.1	ATS-4E1PS2A	PS2	OPTIONAL STAND-BY
4.2	PS#12-ATS	CUP, PS2, PCT	NORMAL

City of Puyallup
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07/01/2021

SPECT/CT REPLACEMENT

Multicare Good Samaritan Hospital

401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.2

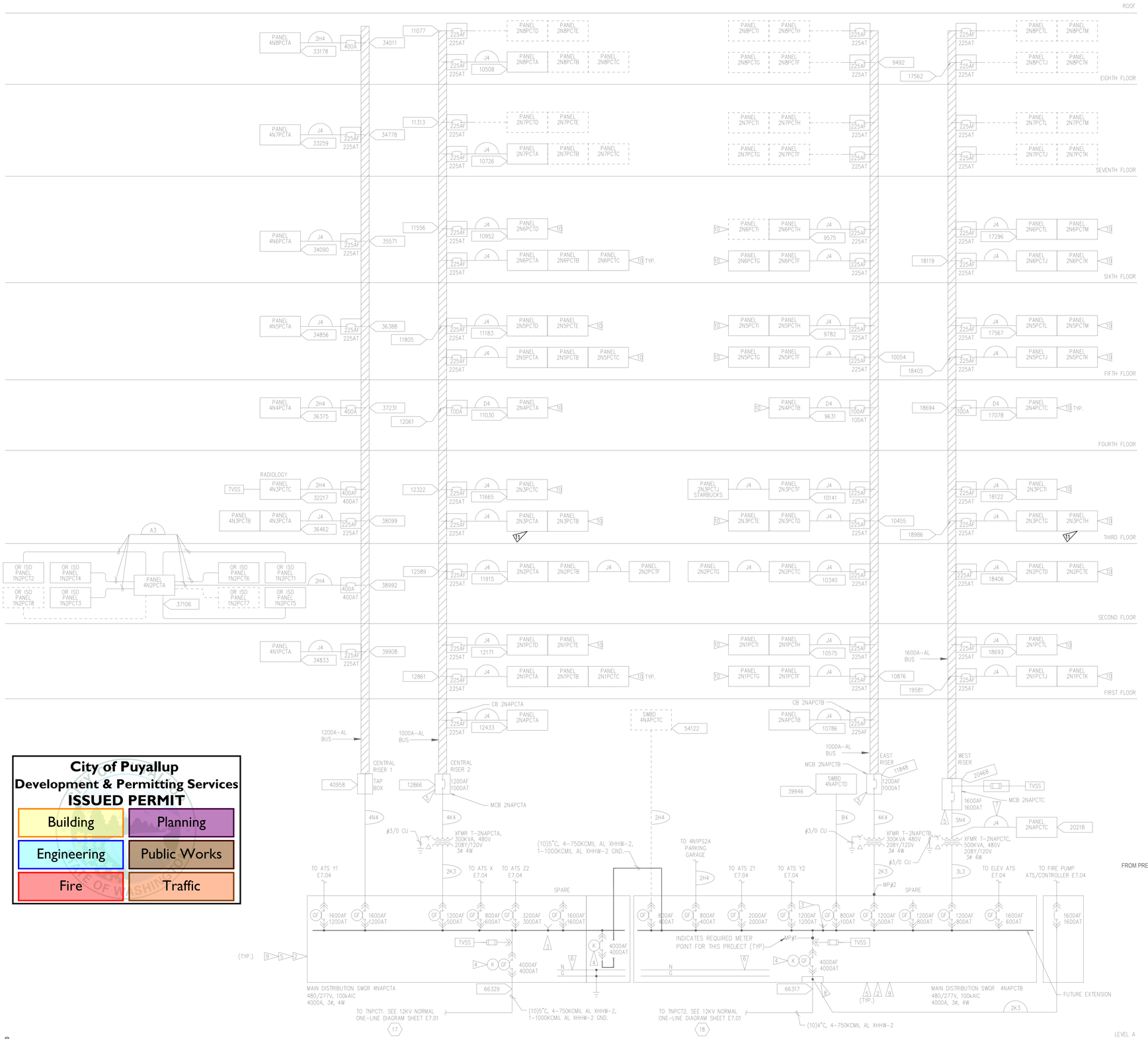
REVISIONS:

CONSTRUCTION DOCUMENTS

ONE-LINE DIAGRAM

E7.02

B-21-0829



480V NORMAL PCT ONE-LINE DIAGRAM

FEEDER SCHEDULE

FEEDER NO.	ALUMINUM CONDUCTORS CONDUIT	WIRE	AMPACITY
D3	1–1/2"	3 – #1/0, 1 #6 G.	120
D4	1 1/2"	4 – #1/0, 1 #6 G.	120
E3	1 1/2"	3 – #2/0, 1 #4 G.	135
F3	2"	3 – #3/0, 1 #4 G.	155
F4	2"	4 – #3/0, 1 #4 G.	155
G3	2"	3 – #4/0, 1 #4 G.	180
J4	3"	4–300kcmil, 1 #2 G.	230
J3	2–1/2"	3–300kcmil, 1 #2 G.	230
K4	3"	4–350kcmil, 1 #2 G.	250
K3	3"	3–350kcmil, 1 #2 G.	250
N3	3–1/2"	3–600kcmil, 1 #1 G.	340
2H4	(2) 3"	4–250kcmil, 1 #1 G. EA.	410
2K3	(2) 3"	3–350kcmil, 1 #1/0 G. EA.	500
2M4	(2) 3–1/2"	4–500kcmil, 1 #3/0 G. EA.	620
3L4	(3) 3–1/2"	4–400kcmil, 1 #3/0 G. EA.	810
3L3	(3) 3"	3–400kcmil, 1 #3/0 G. EA.	810
4K4	(4) 3"	4–350kcmil, 1 #4/0 G. EA.	1000
4N4	(4) 4"	4–600kcmil, 1 #350 G. EA.	1360
5N4	(5) 4"	4–600kcmil, 1 #400 G. EA.	1700
6N4	(6) 4"	4–600kcmil, 1 #600 G. EA.	2040
8P4	(8) 4"	4–750kcmil, 1 #750 G. EA.	3080

FEEDER SCHEDULE

FEEDER NO.	COPPER CONDUCTORS CONDUIT	WIRE	AMPACITY NOTE 2
A4	1 1/4"	4 – #4, 1#8 G.	85
A3	1"	3 – #4, 1#8 G.	85
B4	1 1/4"	4 – #2, 1 #6 G.	115
B3	1 1/4"	3 – #2, 1 #6 G.	115
C5	2"	3 – #1, 2#1/0 N, 1#6 G.	120
C4	1 1/2"	4 – #1, 1 #6 G.	130
C3	1 1/2"	3 – #1, 1 #6 G.	130

SCHEDULE NOTES:

1. CONDUIT SIZING BASED ON RIGID GALVANIZED STEEL OR PVC SCH. 40 CONDUIT AND WIRE TYPE THHN/THWN–2 OR XHHW WIRE, TAKING INTO ACCOUNT BOTH CONDUIT FILL AND JAMB RATIO. CONFIRM CONDUIT FILL AND JAM RATIOS FOR FEEDER CONFIGURATIONS OTHER THAN THOSE SHOWN.
2. AMPACITIES LISTED ARE BASED ON THE FOLLOWING TAKEN FROM TABLE 310–16.
   A. 75° RATING FOR 3W AND 4W FEEDERS.
   B. 90° RATING FOR 5W FEEDERS DE–RATED TO 80% WHERE PREDOMINATLY HARMONIC CURRENTS ARE PRESENT. NEUTRALS ≥ #1/0 ARE PARALLELED ON 5W FEEDERS.
3. INCREASE RACEWAY SIZE FOR OTHER TYPES OF RACEWAYS AND DIFFICULT OR LONG PULLS.
4. GROUND WIRE SIZE INCREASED FOR PARALLEL CONDUCTOR RUNS PER NEC TABLE 250–122.

FLAG NOTES:

1. NOT USED
2. PROVIDE METERING ON ALL CIRCUIT BREAKERS IN SWITCHGEAR
3. 1600A SPACE, QUANTITY 2
4. PROVIDE KEY INTERLOCK FOR MAIN AND TIE CIRCUIT BREAKERS. KEY INTERLOCKS SHALL ALLOW ONLY TWO OF THREE BREAKERS CLOSED AT ANY TIME, AND SHALL PREVENT SIMULTANEOUS CLOSURE OF ALL THREE BREAKERS.
5. PROVIDE CIRCUIT BREAKER RATED FOR USE AT 100% OF THE BREAKER CONTINUOUS CURRENT RATING
6. PROVIDE WARNING SIGNS AT NEUTRAL AND GROUND BUS IN MAIN DISCONNECT SECTION TO READ, "NEUTRAL TO GROUND BOND OCCURS IN TIE BREAKER COMPARTMENT IN DISTRIBUTION SWITHGEAR 4NAPCTA"
7. INSTALL #1/0 GROUND IN LIEU OF #2 GROUND
8. PROVIDE SEPARATE SECTION FOR FIRE PUMP FEEDER TAP PER NFPA 70 695.3(A)(1)
9. POWER MONITORING METER EQUIPMENT WITH COMMUNICATION INTERFACE SHALL CONNECT TO CAMPUS ELECTRICAL POWER MONITORING AND CONTROL SYSTEM (PMCS). PROVIDE ALLOWANCE FOR CONNECTION AND INTERFACE PROGRAMMING TO CAMPUS PMCS FURNISHED UNDER THE PATIENT CARE TOWER PROJECT.
10. PROVIDE #10 GROUND BONDING JUMPER BETWEEN GROUND BUS OF NORMAL AND CRITICAL PANELBOARD SERVING THE SAME PATIENT AREA
11. PANEL IMPACTED BY THIS PROJECT.

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07/01/2021

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Multicare Good Samaritan Hospital

401 15th Ave. SE, Puyallup WA 98372

ISSUE DATE: 07.02.2

REVISIONS:

CONSTRUCTION DOCUMENTS

480V NORMAL PCT ONE-LINE DIAGRAM

E7.03

B-21-0829

FEEDER SCHEDULE

FEEDER NO.	ALUMINUM CONDUCTORS CONDUIT	WIRE	AMPACITY
D3	1–1/2"	3 – #1/0, 1 #6 G.	120
D4	1 1/2"	4 – #1/0, 1 #6 G.	120
E3	1 1/2"	3 – #2/0, 1 #4 G.	135
F3	2"	3 – #3/0, 1 #4 G.	155
F4	2"	4 – #3/0, 1 #4 G.	155
G3	2"	3 – #4/0, 1 #4 G.	180
J4 J3	3" 2–1/2"	4–300kcmil, 1 #2 G. 3–300kcmil, 1 #2 G.	230 230
K4 K3	3" 3"	4–350kcmil, 1 #2 G. 3–350kcmil, 1 #2 G.	250 250
N3	3–1/2"	3–600kcmil, 1 #1 G.	340
2H4	(2) 3"	4–250kcmil, 1 #1 G. EA.	410
2K3	(2) 3"	3–350kcmil, 1 #1/0 G. EA.	500
2M4	(2) 3–1/2"	4–500kcmil, 1 #3/0 G. EA.	620
3L4 3L3	(3) 3–1/2" (3) 3"	4–400kcmil, 1 #3/0 G. EA. 3–400kcmil, 1 #3/0 G. EA.	810 810
4K4	(4) 3"	4–350kcmil, 1 #4/0 G. EA.	1000
4N4	(4) 4"	4–600kcmil, 1 #350 G. EA.	1360
5N4	(5) 4"	4–600kcmil, 1 #400 G. EA.	1700
6N4	(6) 4"	4–600kcmil, 1 #600 G. EA.	2040
8P4	(8) 4"	4–750kcmil, 1 #750 G. EA.	3080

FEEDER SCHEDULE

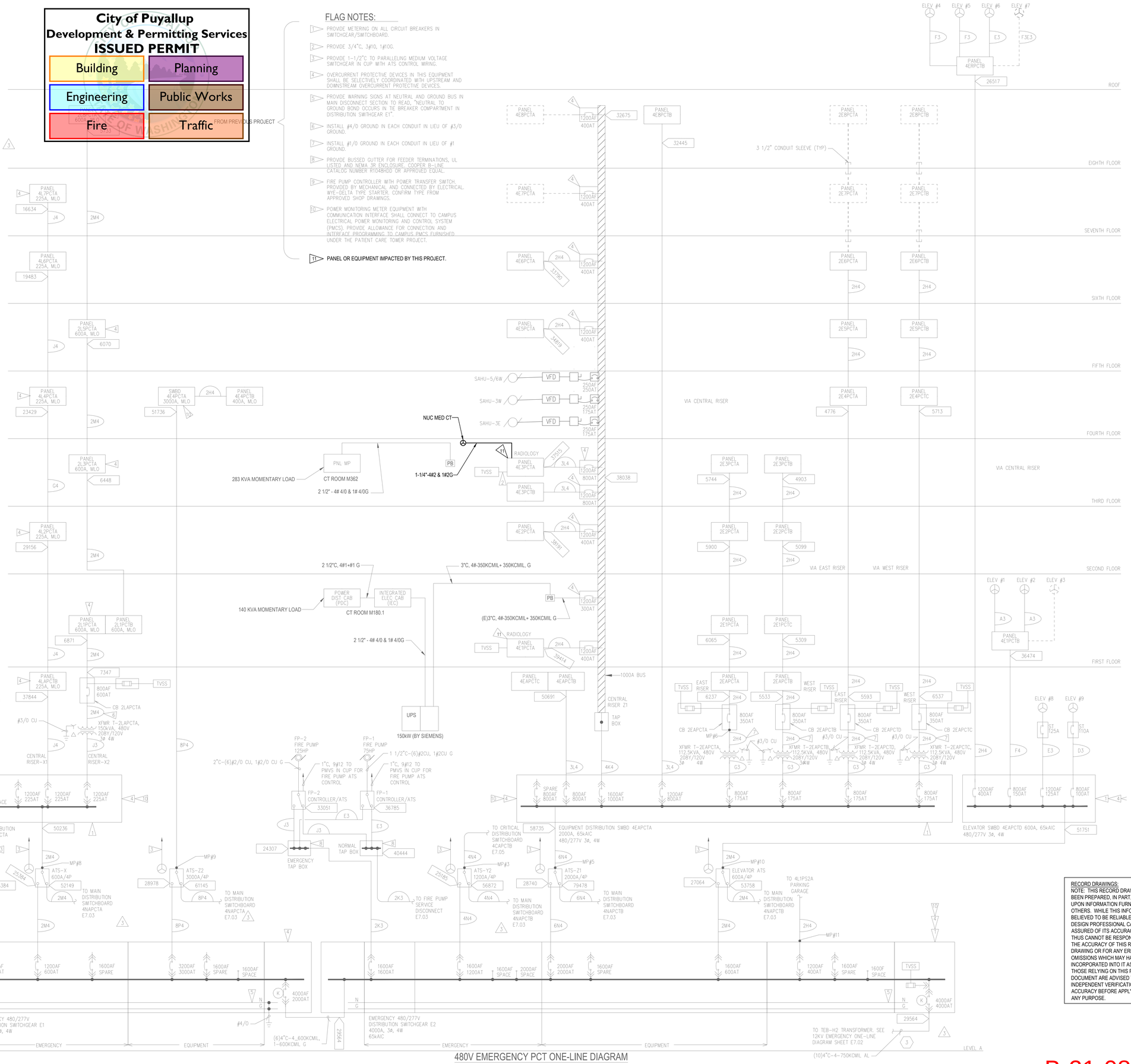
FEEDER NO.	COPPER CONDUCTORS CONDUIT	WIRE	AMPACITY NOTE 2
A4 A3	1 1/4" 1"	4 – #4, 1#8 G. 3 – #4, 1#8 G.	85 85
B4 B3	1 1/4" 1 1/4"	4 – #2, 1 #6 G. 3 – #2, 1 #6 G.	115 115
C5 C4 C3	2" 1 1/2" 1 1/2"	3 – #1, 2#1/0 N, 1#6 G. 4 – #1, 1 #6 G. 3 – #1, 1 #6 G.	120 130 130

SCHEDULE NOTES:

1. CONDUIT SIZING BASED ON RIGID GALVANIZED STEEL OR PVC SCH. 40 CONDUIT AND WIRE TYPE THHN/THWN-2 OR XHHW WIRE, TAKING INTO ACCOUNT BOTH CONDUIT FILL AND JAMB RATIO. CONFIRM CONDUIT FILL AND JAM RATIOS FOR FEEDER CONFIGURATIONS OTHER THAN THOSE SHOWN.
2. AMPACITIES LISTED ARE BASED ON THE FOLLOWING TAKEN FROM TABLE 310–16.
   A. 75° RATING FOR 3W AND 4W FEEDERS.
   B. 90° RATING FOR 5W FEEDERS DE–RATED TO 80% WHERE PREDOMINATLY HARMONIC CURRENTS ARE PRESENT. NEUTRALS ≥ #1/0 ARE PARALLELED ON 5W FEEDERS.
3. INCREASE RACEWAY SIZE FOR OTHER TYPES OF RACEWAYS AND DIFFICULT OR LONG PULLS.
4. GROUND WIRE SIZE INCREASED FOR PARALLEL CONDUCTOR RUNS PER NEC TABLE 250–122.

FLAG NOTES:

1. PROVIDE METERING ON ALL CIRCUIT BREAKERS IN SWITCHGEAR/SWITCHBOARD.
2. PROVIDE 3/4"C, 3#10, 1#10G.
3. PROVIDE 1–1/2"C TO PARALLELING MEDIUM VOLTAGE SWITCHGEAR IN CUP WITH ATS CONTROL WIRING.
4. OVERCURRENT PROTECTIVE DEVICES IN THIS EQUIPMENT SHALL BE SELECTIVELY COORDINATED WITH UPSTREAM AND DOWNSTREAM OVERCURRENT PROTECTIVE DEVICES.
5. PROVIDE WARNING SIGNS AT NEUTRAL AND GROUND BUS IN MAIN DISCONNECT SECTION TO READ, "NEUTRAL TO GROUND BOND OCCURS IN TIE BREAKER COMPARTMENT IN DISTRIBUTION SWITHGEAR E1".
6. INSTALL #4/0 GROUND IN EACH CONDUIT IN LIEU OF #3/0 GROUND.
7. INSTALL #1/0 GROUND IN EACH CONDUIT IN LIEU OF #1 GROUND.
8. PROVIDE BUSSED GUTTER FOR FEEDER TERMINATIONS, UL LISTED AND NEMA 3R ENCLOSURE. COOPER B–LINE CATALOG NUMBER R1048HDD OR APPROVED EQUAL.
9. FIRE PUMP CONTROLLER WITH POWER TRANSFER SWITCH, PROVIDED BY MECHANICAL, AND CONNECTED BY ELECTRICAL. WYE–DELTA TYPE STARTER. CONFIRM TYPE FROM APPROVED SHOP DRAWINGS.
10. POWER MONITORING METER EQUIPMENT WITH COMMUNICATION INTERFACE SHALL CONNECT TO CAMPUS ELECTRICAL POWER MONITORING AND CONTROL SYSTEM (PMCS). PROVIDE ALLOWANCE FOR CONNECTION AND INTERFACE PROGRAMMING TO CAMPUS PMCS FURNISHED UNDER THE PATIENT CARE TOWER PROJECT.
11. PANEL OR EQUIPMENT IMPACTED BY THIS PROJECT.



480V EMERGENCY PCT ONE-LINE DIAGRAM

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480V NORMAL PCT ONE-LINE DIAGRAM

E7.04

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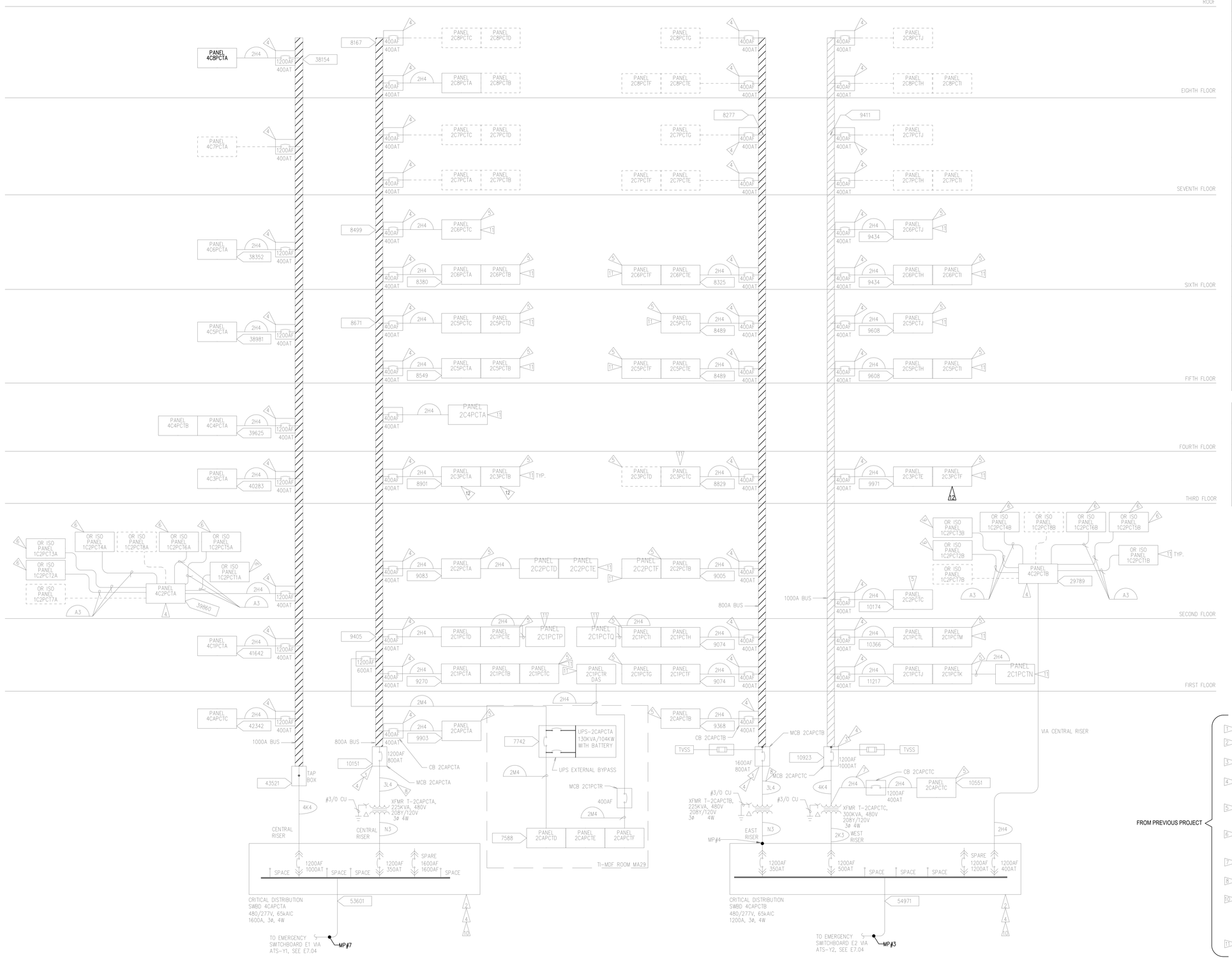

480V CRITICAL ONE-LINE DIAGRAM

SCALE: NONE

FEEDER SCHEDULE

FEEDER NO.	ALUMINUM CONDUCTORS		AMPACITY
	CONDUIT	WIRE	
D3	1–1/2"	3 – #1/0, 1 #6 G.	120
D4	1 1/2"	4 – #1/0, 1 #6 G.	120
E3	1 1/2"	3 – #2/0, 1 #4 G.	135
F3	2"	3 – #3/0, 1 #4 G.	155
F4	2"	4 – #3/0, 1 #4 G.	155
G3	2"	3 – #4/0, 1 #4 G.	180
J4 J3	3" 2–1/2"	4–300kcmil, 1 #2 G. 3–300kcmil, 1 #2 G.	230 230
K4 K3	3" 3"	4–350kcmil, 1 #2 G. 3–350kcmil, 1 #2 G.	250 250
N3	3–1/2"	3–600kcmil, 1 #1 G.	340
2H4	(2) 3"	4–250kcmil, 1 #1 G. EA.	410
2K3	(2) 3"	3–350kcmil, 1 #1/0 G. EA.	500
2M4	(2) 3–1/2"	4–500kcmil, 1 #3/0 G. EA.	620
3L4 3L3	(3) 3–1/2" (3) 3"	4–400kcmil, 1 #3/0 G. EA. 3–400kcmil, 1 #3/0 G. EA.	810 810
4K4	(4) 3"	4–350kcmil, 1 #4/0 G. EA.	1000
4N4	(4) 4"	4–600kcmil, 1 #350 G. EA.	1360
5N4	(5) 4"	4–600kcmil, 1 #400 G. EA.	1700
6N4	(6) 4"	4–600kcmil, 1 #600 G. EA.	2040
8P4	(8) 4"	4–750kcmil, 1 #750 G. EA.	3080

FEEDER SCHEDULE

FEEDER NO.	COPPER CONDUCTORS		AMPACITY NOTE 2
	CONDUIT	WIRE	
A4 A3	1 1/4" 1"	4 – #4, 1#8 G. 3 – #4, 1#8 G.	85 85
B4 B3	1 1/4" 1 1/4"	4 – #2, 1 #6 G. 3 – #2, 1 #6 G.	115 115
C5 C4 C3	2" 1 1/2" 1 1/2"	3 – #1, 2#1/0 N, 1#6 G. 4 – #1, 1 #6 G. 3 – #1, 1 #6 G.	120 130 130

SCHEDULE NOTES:

1. CONDUIT SIZING BASED ON RIGID GALVANIZED STEEL OR PVC SCH. 40 CONDUIT AND WIRE TYPE THHN/THWN-2 OR XHHW WIRE, TAKING INTO ACCOUNT BOTH CONDUIT FILL AND JAMB RATIO. CONFIRM CONDUIT FILL AND JAM RATIOS FOR FEEDER CONFIGURATIONS OTHER THAN THOSE SHOWN.
2. AMPACITIES LISTED ARE BASED ON THE FOLLOWING TAKEN FROM TABLE 310–16.
   A. 75° RATING FOR 3W AND 4W FEEDERS.
   B. 90° RATING FOR 5W FEEDERS DE–RATED TO 80% WHERE PREDOMINATLY HARMONIC CURRENTS ARE PRESENT. NEUTRALS ≥ #1/0 ARE PARALLELED ON 5W FEEDERS.
3. INCREASE RACEWAY SIZE FOR OTHER TYPES OF RACEWAYS AND DIFFICULT OR LONG PULLS.
4. GROUND WIRE SIZE INCREASED FOR PARALLEL CONDUCTOR RUNS PER NEC TABLE 250–122.

FLAG NOTES:

1. NOT USED
2. PROVIDE METERING ON ALL CIRCUIT BREAKERS IN SWITCHGEAR
3. PROVIDE CIRCUIT BREAKER RATED FOR USE AT 100% OF THE BREAKER CONTINUOUS CURRENT RATING
4. OVERCURRENT PROTECTIVE DEVICES IN THIS EQUIPMENT SHALL BE SELECTIVELY COORDINATED WITH UPSTREAM AND DOWNSTREAM OVERCURRENT PROTECTIVE DEVICES
5. PROVIDE #10 GROUNDING BOND BETWEEN 120V CRITICAL PANEL AND NORMAL 120V PANEL IN SAME ELECTRICAL ROOM
6. PROVIDE #10 GROUNDING BOND BETWEEN 120V OR CRITICAL PANEL AND NORMAL 120V PANELS SERVING THE SAME OR
7. INSTALL #1/0 GROUND IN EACH CONDUIT IN LIEU OF #1 GROUND
8. INSTALL #4/0 GROUND IN EACH CONDUIT IN LIEU OF #3/0 GROUND
10. POWER MONITORING METER EQUIPMENT WITH COMMUNICATION INTERFACE SHALL CONNECT TO CAMPUS ELECTRICAL POWER MONITORING AND CONTROL SYSTEM (PMCS). PROVIDE ALLOWANCE FOR CONNECTION AND INTERFACE PROGRAMMING TO CAMPUS PMCS FURNISHED UNDER THE PATIENT CARE TOWER PROJECT.
11. PROVIDE #10 GROUND BONDING JUMPER BETWEEN GROUND BUS OF NORMAL AND CRITICAL PANELBOARD SERVING THE SAME PATIENT AREA
12. PANELS EQUIPMENT IMPACTED BY THIS PROJECT

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E7.05