TENHOEVE BUILD-OUT

9/13/23
PW PROJECT #021047.000

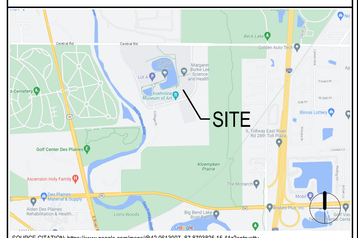
OAKTON COLLEGE
1600 GOLF ROAD
DES PLAINES, IL 60016

ISSUED FOR BID DOCUMENTS
VOLUME #

Perkins&Will

FACILITY	OWNER	ARCHITECT	MEP
	OAKTON COLLEGE 1600 GOLF ROAD DESPLAINES, IL 60016		MECHANICAL SERVICES ASSOCIATES 111 S Virginia St, Crystal Lake, IL 60014

SITE MAP



SOURCE CITATION: https://www.google.com/maps/@42.0613007,-87.8793825,15.44z?entry=ttu

Sheet Index

SHEET NUMBER	SHEET NAME	ISSUED FOR BID | 09.13.23		
00-GENERAL				
G00-01	INDEX OF DRAWINGS	●		
G01-01	CODE COMPLIANCE PLAN	●		
01-ARCHITECTURAL				
A00-01	REFERENCE SHEET	●		
A04-01	DEMOLITION PLAN	●		
A05-01	DEMOLITION CEILING PLAN	●		
A11-01	FLOOR PLAN	●		
A12-01	REFLECTED CEILING PLAN	●		
A13-01	INTERIOR FINISH PLAN & INTERIOR ELEVATIONS	●		
A50-01	INTERIOR DETAILS & PARTITION TYPES	●		
A62-01	DOOR SCHEDULE & DETAILS	●		
02-PLUMBING				
P04-01	PARTIAL LEVEL 01 PLUMBING DEMOLITION PLAN	●		
P11-01A	PARTIAL LEVEL 01 PLUMBING PLAN	●		
P20-00	PLUMBING FIXTURES SCHEDULE, DETAILS, & SYMBOLS LIST	●		
03-FIRE PROTECTION				
FP11-01A	PARTIAL LEVEL 01 FIRE PROTECTION PLAN	●		
04-MECHANICAL				
M04-01	PARTIAL LEVEL 01 MECHANICAL DEMOLITION PLAN	●		
M11-01A	PARTIAL LEVEL 01 MECHANICAL PLAN	●		
M20-00	MECHANICAL EQUIPMENT SCHEDULES	●		
05-ELECTRICAL				
E01-01	PARTIAL BASEMENT AND SYSTEMS PLAN	●		
E01-02	PARTIAL SECOND FLOOR POWER AND SYSTEMS PLAN	●		
E04-01	PARTIAL LEVEL 01 ELECTRICAL DEMOLITION PLAN	●		
E11-01A	PARTIAL LEVEL 01 POWER AND SYSTEMS PLAN	●		
E11-02A	PARTIAL LEVEL 01 MECHANICAL ELECTRICAL NEW WORK PLAN	●		
E21-01A	PARTIAL LEVEL 01 LIGHTING PLAN	●		
E31-01	ELECTRICAL SCHEDULES	●		
E31-02	ELECTRICAL SCHEDULES	●		
E41-01	ELECTRICAL LIGHTING CONTROL DETAILS	●		
E51-01	ELECTRICAL DETAILS	●		
E61-01	ELECTRICAL GENERAL NOTES AND SYMBOLS	●		
E71-01	TECHNOLOGY NOTES AND DETAILS	●		
E71-02	TECHNOLOGY NOTES AND DETAILS	●		

GENERAL NOTES

- **PROJECT INFORMATION:**
  RENOVATION WORK: LEVEL 01 OF EXISTING FACILITY, APPROX. 3,900 SF
- **CODES/ LAWS:**
  CITY OF DES PLAINES:
  2015 INTERNATIONAL BUILDING CODE (IBC)
  2014 NATIONAL ELECTRICAL CODE (NEC)
  2015 INTERNATIONAL MECHANICAL CODE
  2015 INTERNATIONAL FUEL GAS CODE
  2015 INTERNATIONAL FIRE CODE
  2015 INTERNATIONAL PROPERTY MAINTENANCE CODE
  LOCAL AMMENDMENTS

  STATE OF ILLINOIS:
  2018 ILLINOIS ACCESSIBILITY CODE
  2014 ILLINOIS PLUMBING CODE
  2000 NFPA 101 LIFE SAFETY CODE
  2018 INTERNATIONAL ENERGY CONSERVATION CODE

  FEDERAL:
  2010 AMERICANS WITH DISABILITIES ACT GUIDELINES
  ICC A117.1-2009
- **OCCUPANCY CLASSIFICATION:**
  2015 IBC - GROUP B 'BUSINESS'
  2000 NFPA 101 EXISTING BUSINESS OCCUPANCY
- **CONSTRUCTION TYPE:**
  EXIST: 2015 IBC - TYPE II-A, FULLY SPRINKLERED
  2000 NFPA 220 - TYPE II (111)
- **ALLOWABLE HEIGHT AND BUILD, AREAS:** (IBC TABLE 503)
  EXISTING - NO CHANGE
- **FIRE RESISTANCE:** (FOR TYPE II-A CONSTRUCTION)

BUILDING ELEMENT	FIRE RATING	U.L. ASSEMBLY
STRUCTURAL FRAME (INCLUDING COLUMNS & GIRDERS)		
SUPPORTING ROOF ONLY	1-HR	NA
SUPPORTING ONE OR MORE FLOORS	1-HR	NA
BEARING WALLS		
EXTERIOR	1-HR	NA
INTERIOR (SUPPORTING ROOF ONLY)	1-HR	NA
NON-BEARING WALLS		
EXTERIOR	0-HR	NA
INTERIOR (SUPPORTING ROOF ONLY)	0-HR	NA
FLOOR CONSTRUCTION [INCLUDING SUPPORTING BEAMS AND JOISTS (SECONDARY MEMBERS)]	1-HR	NA
ROOF CONSTRUCTION [INCLUDING SUPPORTING BEAMS AND JOISTS (SECONDARY MEMBERS)]	1-HR	NA

NOTES:
1. EXISTING FIRE RATED ASSEMBLIES TO BE MAINTAINED.

Perkins&Will
The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS
MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT
TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

TITLE

INDEX OF DRAWINGS

SHEET NUMBER

G00-01

ISSUED FOR BID 9/13/23

2 CODE COMPLIANCE EGRESS PLAN - LEVEL 01
1/8" = 1'-0"

CODE COMPLIANCE PLAN GENERAL NOTES

1. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE CODES.
2. FINAL LOCATIONS OF ALL LIFE SAFETY DEVICES AND FIXTURES ARE SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

CODE COMPLIANCE PLAN LEGEND

- NON-FIRE-RATED SMOKE PARTITION
- EXISTING NON-FIRE-RATED SMOKE PARTITION
- SMOKE BARRIER 1-HOUR FIRE RATING
- EXISTING SMOKE BARRIER. 1-HOUR FIRE RATING.
- 1-HOUR FIRE PARTITION
- EXISTING 1-HOUR FIRE PARTITION
- 3-HOUR FIRE WALL
- EXISTING 3-HOUR FIRE WALL
- 2-HOUR FIRE BARRIER REQUIRED TO HAVE SMOKE DAMPERS
- EXISTING 2-HOUR FIRE BARRIER REQUIRED TO HAVE SMOKE DAMPERS
- EXIT SIGN
- FEC — FIRE EXTINGUISHER & CABINET (SCREENED IF EXISTING)
- FE — FIRE EXTINGUISHER (SCREENED IF EXISTING)
- FEC — FIRE EXTINGUISHER & CABINET SURFACE MOUNTED (SCREENED IF EXISTING)
- DOOR EXIT WIDTH
- 20 MIN — FIRE RATING OF DOOR IN MINUTES
- NOT IN CONTRACT
- 999'-11" — LONGEST ROUTE TO AN EXIT
- 999'-11" — MAXIMUM OVERALL DIAGONAL DISTANCE
- 999'-11" — EXIT SEPARATION
- 999'-11" — COMMON PATH OF EGRESS TRAVEL / DEAD END

DOOR		STAIR	
ACT REQ	192 OCC	REQ	226 OCC
	32"		32"
ACT	226 OCC	ACT	192 OCC
	19"		19"

EGRESS COMPONENT
OCCUPANCY CAPACITY - REQUIRED
WIDTH - REQUIRED
OCCUPANCY CAPACITY - PROVIDED
WIDTH - PROVIDED

BUSINESS
B 6240 SF
150 SF 42 OCC

- FUNCTION OF SPACE
- OCCUPANCY GROUP
- AREA
- OCCUPANTS
- OCCUPANT LOAD FACTOR

OCCUPANT LOAD CALC - LEVEL 01

FUNCTION OF SPACE	AREA (SF)	OCC LOAD FACTOR	OCC LOAD	DOOR FACTOR	DOOR WIDTH REQ	DOOR WIDTH PROVIDED
BUSINESS	1,221	150 SF	8			
BUSINESS - SMALL ASSEMBLY	1,703	50 SF	34			
MECH/EQUIP/STOR.	1,466	300 SF	5			
Grand total	4,390		47			

EXIT NUMBER AND ARRANGEMENT FOR LEVEL 01

GREATEST TRAVEL DISTANCE TO AN EXIT: (FROM ANY POINT IN A ROOM)
83' - 0"PROVIDED - 200' - 0" ALLOWED

GREATEST COMMON PATH OF TRAVEL:
0"PROVIDED 100' - 0" ALLOWED

MINIMUM NUMBER OF EXITS REQUIRED:
2 PROVIDED - 1 REQUIRED

MAXIMUM DEAD END LENGTH:
0"PROVIDED - 50' - 0"MAXIMUM

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

TITLE

CODE COMPLIANCE PLAN

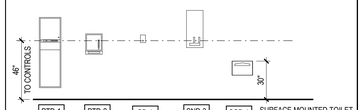
SHEET NUMBER

G01-01

ISSUED FOR BID 9/13/23

MOUNTING DIMENSIONS

MOUNTING INFORMATION SHOWN HERE IS COMPLIANT WITH REQUIREMENTS OF ICC A117.1-2009 AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN



PTD-1 RECESSED PAPER TOWEL DISP & RECEPT

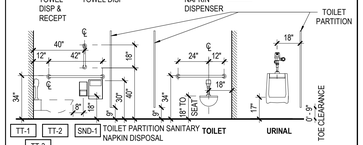
PTD-2 RECESSED PAPER TOWEL DISP

SD-1 SURFACE MTD SOAP DISP

SND-3 RECESSED SANITARY NAPKIN DISPENSER

SCD-1 SURFACE MOUNTED TOILET SEAT COVER DISP

SCD-2 RECESSED



TT-1 TT-2 SND-1 TOILET PARTITION SANITARY NAPKIN DISPOSAL

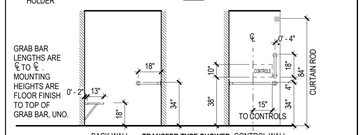
TOILET

URINAL

TT-3 TOILET TISSUE HOLDER

SND-2 RECESSED SANITARY NAPKIN DISPOSAL

NOTE: ALL DIMS REFERENCE FACE OF WALL FINISH



GB-24 24"
GB-30 30"
GB-18 18" VERTICAL @ SIDE OF WC

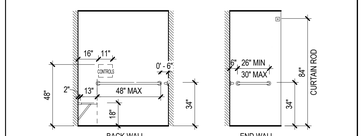
GB-36 36" - BACK WALL @ WC

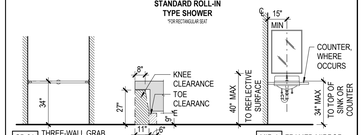
GB-42 42" - SIDE WALL @ WC

GB-48 48"

SS-1 FOLDING SHR SEAT

GB-2 TWO WALL GRAB BAR AT 36" X 36" SHOWER

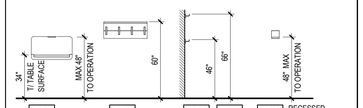




GB-3A THREE-WALL GRAB BAR AT 30" X 60" SHOWER

GB-3B THREE-WALL GRAB BAR AT 30"X48" SHOWER

MIR-1 FRAMED MIRROR



DC-1 FLIP DOWN DIAPER CHANGING UNIT

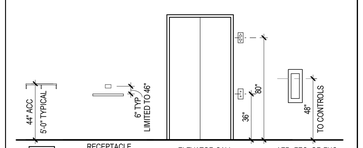
BMH-1 BROOM / MOP HOLDER WITH SHELF

RH-2 ADA COAT, TOWEL, OR ROBE HOOK

RH-1 NON-ADA COAT, TOWEL, OR ROBE HOOK

SP-1 RECESSED SOAP DISH

SP-2 SURFACE MOUNTED SOAP DISH

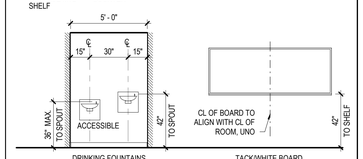


SHF-1 SURFACE MTD SHELF

RECEPTACLE ABOVE COUNTER

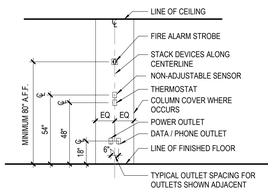
ELEVATOR CALL BUTTON/LANTERN

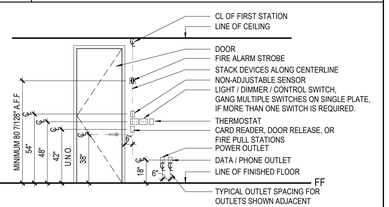
AED, FEC, OR FHC



DRINKING FOUNTAINS

TACK/WHITE BOARD



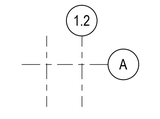


ABBREVIATIONS

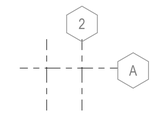
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL), ARCHITECT
BLDG	BUILDING
CF/CI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED, OWNER INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COORD	COORDINATE
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL)
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FLR	FLOOR
FP	FIRE PROTECTION/ FIREPROOF
FRTW	FIRE RETARDANT TREATED WOOD
FT	FOOT (FEET)
FTG	FOOTING
FURN	FURNISH, FURNITURE
GA	GAGE
GALV	GALVANIZED
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUED LAMINATED WOOD
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HIGH
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
L	LONG, LENGTH
LAM	LAMINATE(D)
LF	LINEAR FOOT, (FEET)
LP	LOW POINT
LVR	LOUVER
m	METER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED, OWNER INSTALLED
OPH	OPPOSITE HAND
PCC	PRE-CAST CONCRETE
PERF	PERFORATED
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PNT	PAINT
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS, RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCE, REINFORCING
REQ(D)	REQUIRE, REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT(FEET)
SIM	SIMILAR
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL
T	TREAD
T/	TOP OF
T&G	TONGUE & GROOVE
TEMP	TEMPORARY
THK	THICK
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UL	UNDERWRITERS' LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
WD	WOOD
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
X	BY

SYMBOLS LEGEND

COLUMN GRID DESIGNATION



NEW GRID

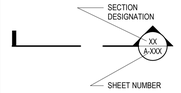


EXISTING GRID

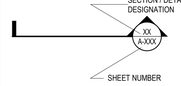
NOTE TAGS

7 "NOTES BY NUMBER"

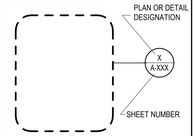
BUILDING SECTION TAG



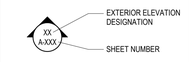
WALL / DETAIL SECTION TAGS



ENLARGED PLAN TAG

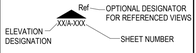


EXTERIOR ELEVATION TAG

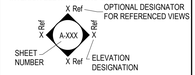


INTERIOR ELEVATION TAGS

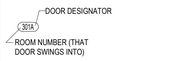
INTERIOR ELEVATION TAG SINGLE-DIRECTIONAL



INTERIOR ELEVATION TAG MULTI-DIRECTIONAL



DOOR IDENTIFICATION TAG



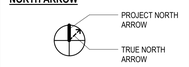
EQUIPMENT DESIGNATION

XXXXX EQUIPMENT TAG

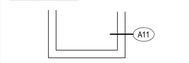
TOILET ACCESSORY TAG

TA1 TOILET ACCESSORY TAG.

NORTH ARROW



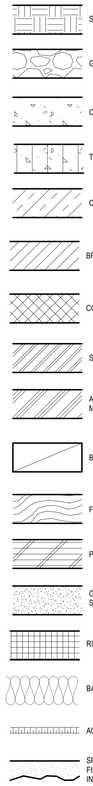
PARTITION TAG



GENERAL PROJECT NOTES

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF GYPSUM BOARD FOR PARTITIONS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW PARTITIONS UNLESS OTHERWISE INDICATED.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF SCHEDULED FINISH UNLESS OTHERWISE NOTED.
6. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE GYPSUM BOARD SHALL BE OFFSET FROM FRAMING AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
7. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A 1/4" VARIANCE IN A 10'-0" RADIUS.
8. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A PARTITION ARE TO BE CONSISTENT FOR THE LENGTH AND HEIGHT OF A PARTITION.
9. FLOOR OUTLET LOCATIONS ARE TO BE APPROVED BY ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE DRILLING.
10. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
11. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
12. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
13. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
14. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
15. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH CEILING SYSTEM WIRE HANGERS FROM JOISTS OR BEAMS. IF NO JOIST OR BEAM IS AVAILABLE, PROVIDE SUPPLEMENTAL STEEL SUPPORTS

MATERIALS AT LARGE SCALES



Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

TITLE

REFERENCE SHEET

SHEET NUMBER

A00-01

1 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

1. CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED BY PHASING TO MINIMIZE THE SPREAD OF DUST AND NOISE.
2. THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THEM AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
3. REPAIR ANY DAMAGED FIRE-RATED ASSEMBLIES TO THEIR ORIGINAL SPECIFICATION, UNO.
4. REMOVE CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL INCLUDES FINISHES AND MECHANICAL PLUMBING AND ELECTRICAL SYSTEMS ONTAINED THEREIN. CUT AND CAP MEP/FP SYSTEMS THAT EXTEND BEYOND AREA OF DEMOLITON. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN FLOORS OR WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS, FLOORS AND DECK, AND PREPARE SURFACES TO RECEIVE NEW FINISHES PER FINISH SCHEDULE OR PER INTERIOR FINISH PLANS.
5. WHERE NEW FINISHES ARE TO BE INSTALLED ON TO REMAIN SURFACES, REMOVE THE EXISTING FINISH AND PREPARE THE EXISTING SURFACE TO RECEIVE THE NEW FINISH.
6. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
7. SEE CIVIL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES.
8. FOR EXTENT AND LOCATION OF CHANNELING OF FLOOR SLABS, REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. IF PIPING OR CONDUIT WORK (OTHER THAN THE DESIRED CONNECTION) IS ENCOUNTERED WHILE CHANNELING, NOTIFY THE ARCHITECT BEFORE CONTINUING.
9. VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
10. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.
11. BRACE ALL STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION.
12. DO NOT CUT ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
13. THE BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
14. REPLACE OR REPAIR ANY TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.)
15. NOTIFY THE ARCHITECT IMMEDIATELY IF THE REMOVAL OF MECHANICAL, ELECTRICAL, PLUMBING SYSTEMS, OR COMPONENTS WILL ADVERSELY AFFECT THE OPERATION OF MEP SYSTEMS OUTSIDE THE LIMIT OF DEMOLITION.
16. SCHEDULE ALL DEMOLITION WITH THE OWNER.

DEMOLITION LEGEND

- CONSTRUCTION TO BE REMOVED
- FLOOR SLAB TO BE REMOVED WITHIN AREA INDICATED
- FLOOR, WALL AND CEILING FINISHES ONLY, TO BE REMOVED WITHIN AREA INDICATED
- FLOOR AND WALL FINISHES ONLY, TO BE REMOVED WITHIN AREA INDICATED
- AREA OUT OF ARCHITECTURAL SCOPE BUT REFER TO OTHER DISCIPLINES DEMOLITION DOCUMENTS FOR ADDITIONAL WORK.

DEMOLITION NOTES BY NUMBER

⬡	<<< Indicates Sheet Keynote on Plan
D01	REMOVE EXISTING STUD/GYPSUM BOARD PARTITION WALL, INCLUDING DOORS/GLAZING, TO THE EXTENT SHOWN. PREPARE ADJACENT SURFACES FOR PATCH/INFILL CONSTRUCTION.
D02	REMOVE EXISTING MASONRY PARTITION WALL, INCLUDING DOORS/GLAZING, TO THE EXTENT SHOWN. PREPARE ADJACENT SURFACES FOR PATCH/INFILL CONSTRUCTION.
D03	REMOVE EXISTING DOOR AND FRAME. PREPARE OPENING FOR NEW FINISHES. SALVAGE DOOR HARDWARE AND PROVIDE TO OWNER.
D04	REMOVE EXISTING CASEWORK/COUNTERS IN THEIR ENTIRETY.
D05	AT PLUMBING FIXTURES TO BE REMOVED, REMOVE PORTIONS OF SLAB-ON-GRADE AND PREPARE FOR INFILL CONSTRUCTION
D06	REMOVE EXISTING CERAMIC FLOOR TILE. PREPARE SURFACE FOR LEVELING AND PATCHING.
D07	REMOVE EXISTING CARPETING AND RESILIENT BASE. PREPARE SURFACE FOR NEW FINISH.
D08	REMOVE EXISTING RESILIENT TILE AND BASE. PREPARE SURFACE FOR NEW FINISH.
D12	REMOVE EXISTING FLOOR-MOUNTED TOILET PARTITION SYSTEM.
D13	FIRE PROTECTION ON EXISTING STRUCTURAL STEEL TO REMAIN.
D14	REMOVE APPLIANCES, SALVAGE, AND PROVIDE TO OWNER.
D15	FULL PERIMETER OF EXISTING GLAZING SYSTEM (HEAD, SILL, JAMB), REMOVE EXISTING INTERIOR AND EXTERIOR SEALANT AND BACKER MATERIAL. PREPARE SURFACES FOR NEW SEALANT.
D16	REMOVE PLASTER AND LATHE. PREPARE SURFACE FOR NEW CONSTRUCTION.
D17	PORTION OF EXISTING SLAB-ON-GRADE TO BE REMOVED FOR IN-FLOOR ELECTRICAL WORK. D

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

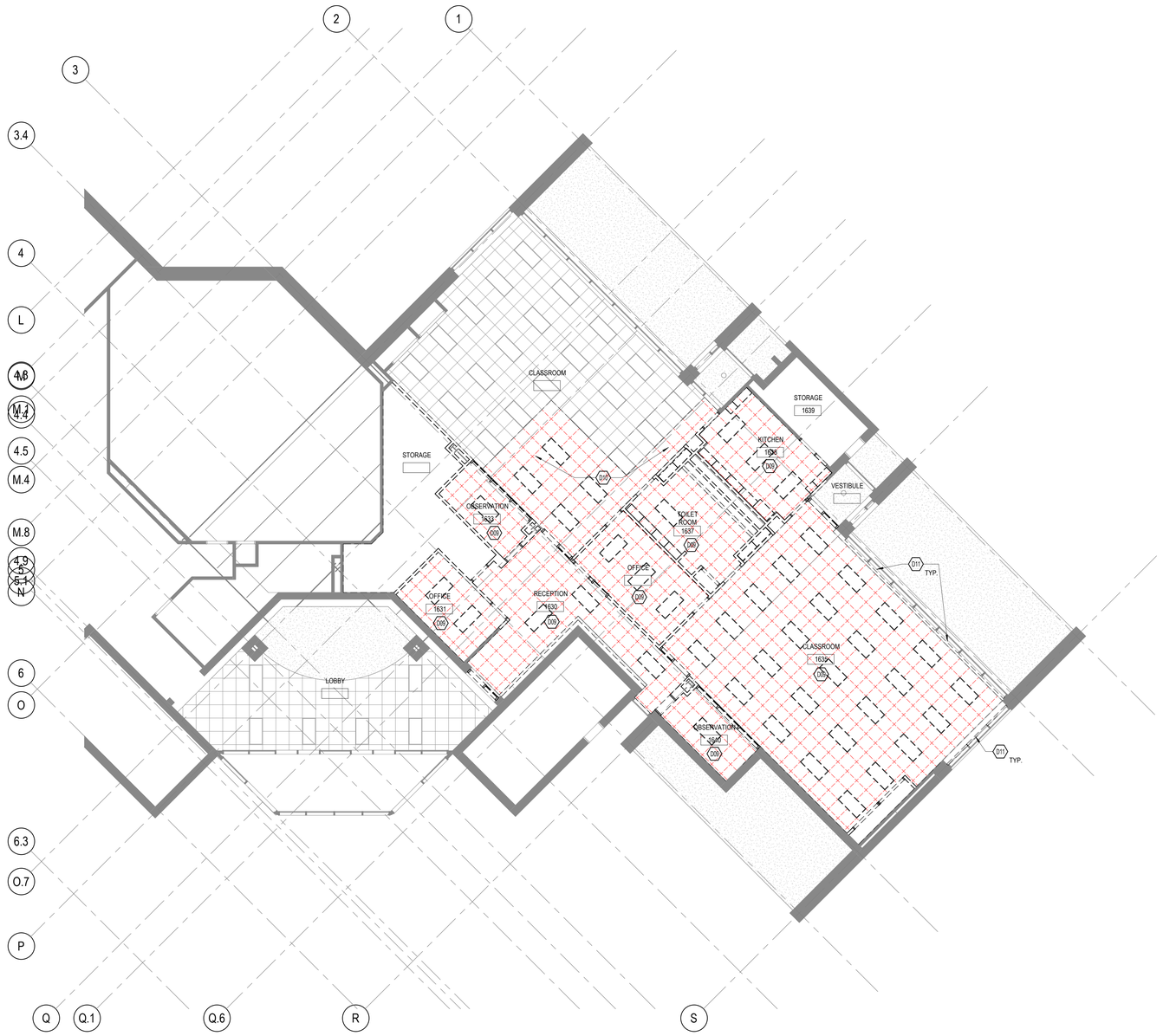
TITLE

DEMOLITION PLAN

SHEET NUMBER

A04-01

9/8/2023 9:11:26 PM Autodesk Docs://021047.000_Oakton College/ARCH_Oakton TenHoeve Renovation.rvt



1 DEMOLITION CEILING PLAN - LEVEL 01
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

1. CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED BY PHASING TO MINIMIZE THE SPREAD OF DUST AND NOISE.
2. THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THEM AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
3. REPAIR ANY DAMAGED FIRE-RATED ASSEMBLIES TO THEIR ORIGINAL SPECIFICATION, UNO.
4. REMOVE CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL INCLUDES FINISHES AND MECHANICAL PLUMBING AND ELECTRICAL SYSTEMS ONTAINED THEREIN. CUT AND CAP MEP/FP SYSTEMS THAT EXTEND BEYOND AREA OF DEMOLITON. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN FLOORS OR WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS, FLOORS AND DECK, AND PREPARE SURFACES TO RECEIVE NEW FINISHES PER FINISH SCHEDULE OR PER INTERIOR FINISH PLANS.
5. WHERE NEW FINISHES ARE TO BE INSTALLED ON TO REMAIN SURFACES, REMOVE THE EXISTING FINISH AND PREPARE THE EXISTING SURFACE TO RECEIVE THE NEW FINISH.
6. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
7. SEE CIVIL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES.
8. FOR EXTENT AND LOCATION OF CHANNELING OF FLOOR SLABS, REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. IF PIPING OR CONDUIT WORK (OTHER THAN THE DESIRED CONNECTION) IS ENCOUNTERED WHILE CHANNELING, NOTIFY THE ARCHITECT BEFORE CONTINUING.
9. VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
10. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.
11. BRACE ALL STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION.
12. DO NOT CUT ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
13. THE BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
14. REPLACE OR REPAIR ANY TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.)
15. NOTIFY THE ARCHITECT IMMEDIATELY IF THE REMOVAL OF MECHANICAL, ELECTRICAL, PLUMBING SYSTEMS, OR COMPONENTS WILL ADVERSELY AFFECT THE OPERATION OF MEP SYSTEMS OUTSIDE THE LIMIT OF DEMOLITION.
16. SCHEDULE ALL DEMOLITION WITH THE OWNER.

DEMOLITION LEGEND

- CONSTRUCTION TO BE REMOVED
- FLOOR SLAB TO BE REMOVED WITHIN AREA INDICATED
- FLOOR, WALL AND CEILING FINISHES ONLY, TO BE REMOVED WITHIN AREA INDICATED
- FLOOR AND WALL FINISHES ONLY, TO BE REMOVED WITHIN AREA INDICATED
- AREA OUT OF ARCHITECTURAL SCOPE BUT REFER TO OTHER DISCIPLINES DEMOLITION DOCUMENTS FOR ADDITIONAL WORK.

DEMOLITION NOTES BY NUMBER

<<<	Indicates Sheet Keynote on Plan
D09	REMOVE EXISTING SUSPENDED CEILING SYSTEM. REMOVE LIGHTS, GRILLES/DIFFUSERS, ELECTRICAL DEVICES, ETC. CUT, CAP, AND MAKE SAFE TO SOURCE.
D10	REMOVE PORTION OF EXISTING SUSPENDED CEILING SYSTEM. REMOVE LIGHTS, GRILLES/DIFFUSERS, ELECTRICAL DEVICES, ETC. CUT, CAP, AND MAKE SAFE TO SOURCE. UNFINISHED EDGE OF CEILING GRID TO REMAIN.
D11	REMOVE EXISTING WINDOW SHADES AND PREPARE GLAZING SYSTEM/ADJACENT WALL SURFACES FOR NEW WINDOW TREATMENTS.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

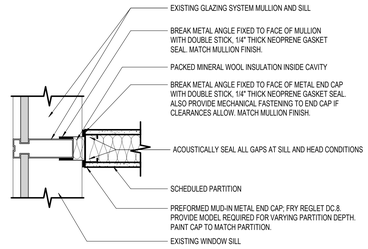
Job Number 021047.000

TITLE

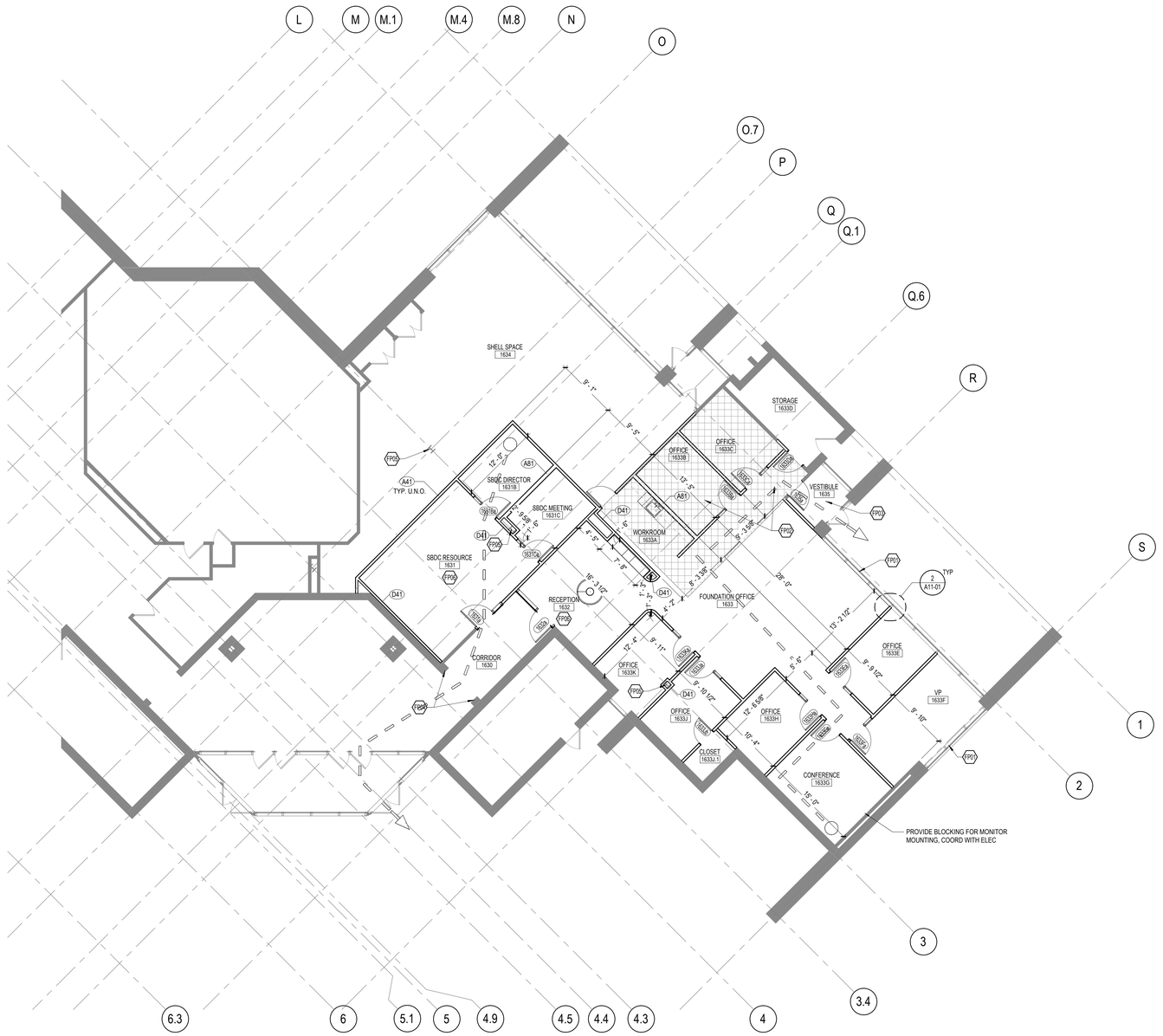
DEMOLITION CEILING PLAN

SHEET NUMBER

A05-01



2 DETAIL - PARTITION AT MULLION
1 1/2" = 1'-0"



1 FLOOR PLAN - LEVEL 01
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. PARTITION TYPES ARE SCHEDULED IN THE A61 SERIES.
2. ALL PARTITIONS ARE TYPE "A31" UNLESS NOTED OTHERWISE
3. PARTITION DIMENSIONS ARE TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
4. DOOR DIMENSIONS ARE TO EDGE OF DOOR LEAF UNLESS NOTED OTHERWISE.

FLOOR PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- A — EXTERIOR GLAZING SYSTEM TAG REFER TO A33 SERIES FOR SCHEDULE
- 1 — INTERIOR GLAZING REFER TO A63 SERIES FOR SCHEDULE

FLOOR PLAN NOTES BY NUMBER

⬡	<<< Indicates Sheet Keynote on Plan
FP01	PROVIDE NEW SEALANT JOINT AND BACKER MATERIAL, FULL PERIMETER (HEAD, JAMB, SILL), INTERIOR & EXTERIOR AT EXISTING GLAZING SYSTEM.
FP02	APPROXIMATE AREA OF CEMENT-BASED UNDERLAYMENT.
FP03	EXISTING TO REMAIN RECESSED WALK-OFF SYSTEM. CLEAN SLATS AND REMOVE DEBRIS.
FP04	CLEAN MASONRY AT DEMOLISHED DOOR/FRAME. INFILL FASTENER MARKS WITH COLOR MATCH GROUT INFILL.
FP05	REPAIR EXISTING SPRAY-APPLIED FIREPROOFING TO MAINTAIN EXISTING THICKNESS/FIRE PROTECTION LEVEL.
FP06	PATCH/INFILL PORTION OF EXISTING SLAB-ON-GRADE AT NEW IN-FLOOR ELECTRICAL WORK. FP

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

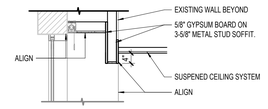
Job Number 021047.000

TITLE

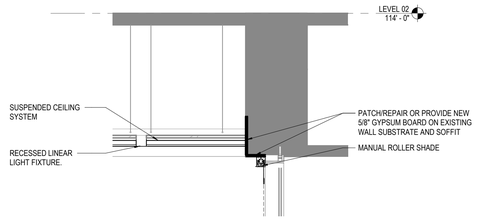
FLOOR PLAN

SHEET NUMBER

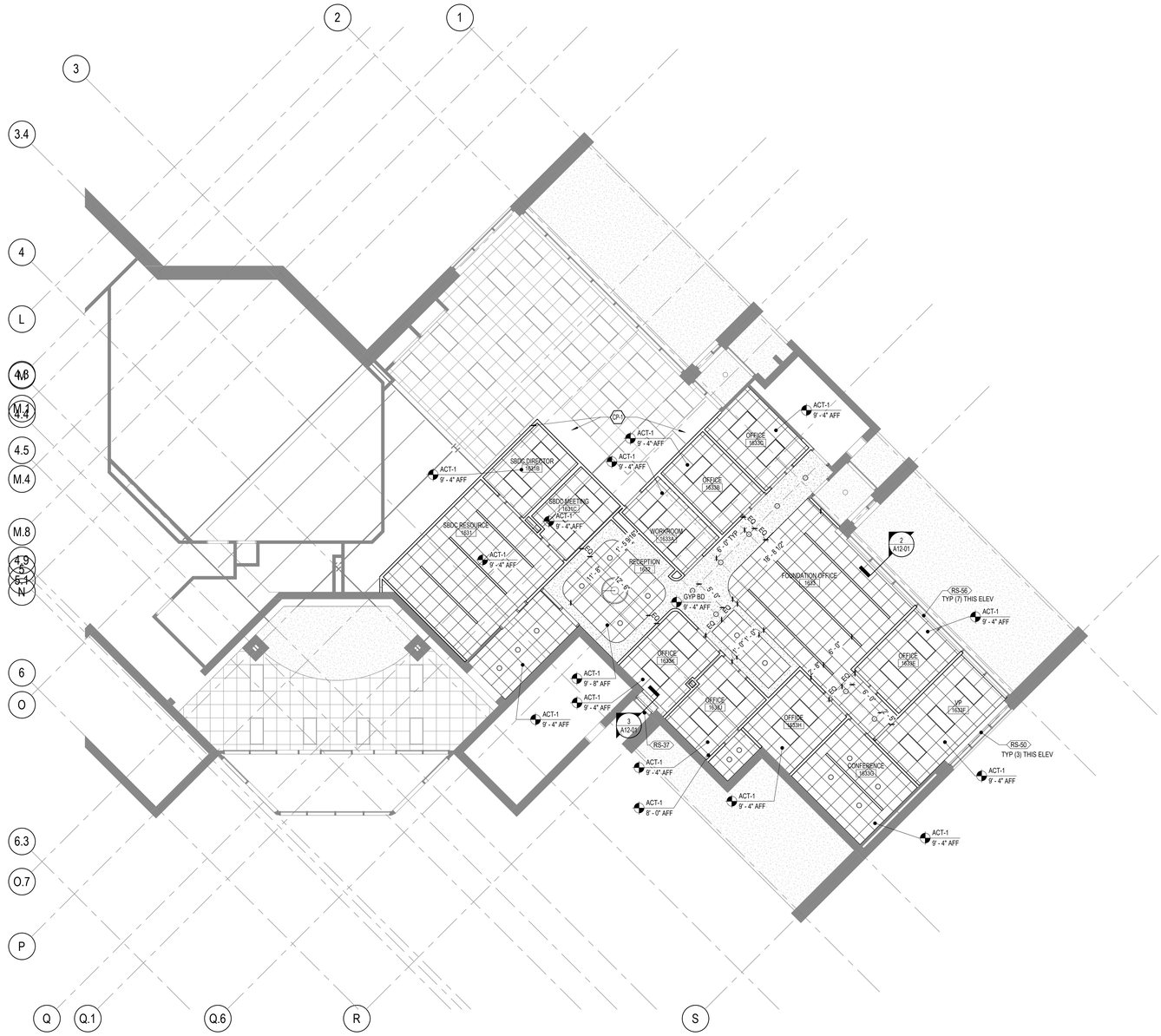
A11-01



3 SECTION - SOFFIT @ EXT. WALL
1/2" = 1'-0"



2 SECTION - NEW CEILING @ EXT. WALL
1/2" = 1'-0"



1 REFLECTED CEILING PLAN - LEVEL 01
1/8" = 1'-0"

RCP GENERAL NOTES

1. CEILING-MOUNTED LIGHT FIXTURES AND DEVICES ARE TO BE CENTERED IN CEILING TILES UNLESS NOTED OTHERWISE.
2. DIMENSIONS TO CEILIING-MOUNTED LIGHT FIXTURES AND DEVICES ARE TO FIXTURE/DEVICE CENTERLINE.
3. CONTRACTOR TO PROVIDE ACCESS PANELS IN INACCESSIBLE CEILINGS FOR SERVICE OR ADJUSTMENT TO ABOVE-CEILING EQUIPMENT. CONTRACTOR IS TO VERIFY LOCATION WITH ARCHITECT PRIOR TO CONSTRUCTION.
4. PAINT DECK AND STRUCTURE IN ALL AREAS OF EXPOSED STRUCTURE.

RCP LEGEND

- SUPPLY AIR GRILLE — REFER TO MECHANICAL DRAWINGS
- RETURN AIR GRILLE — REFER TO MECHANICAL DRAWINGS
- EXHAUST AIR GRILLE — REFER TO MECHANICAL DRAWINGS
- C.J. — CONTROL JOINT
- LIGHTING FIXTURE RECESSED TROFFER LIGHTS 2'X2', 2'X4', AND 1'X4'
- LIGHTING FIXTURE SUSPENDED LINEAR 4'
- LIGHTING FIXTURE RECESSED DOWNLIGHT ROUND
- LIGHTING FIXTURE RECESSED DOWNLIGHT SQUARE
- LIGHTING FIXTURE SUSPENDED INDUSTRIAL STRIP
- RS-XX — ROLLER SHADE - 'XX' DENOTES APPROX. LENGTH

RCP NOTES BY NUMBER

⬡	<<< Indicates Sheet Keynote on Plan
CP-1	SECURE EXISTING CEILING GRID EDGE AND FIXTURES TO REMAIN. NO INFILL REQUIRED.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

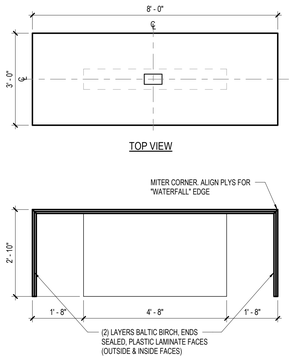
TITLE

REFLECTED CEILING PLAN

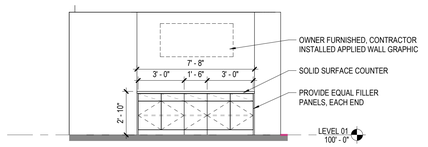
SHEET NUMBER

A12-01

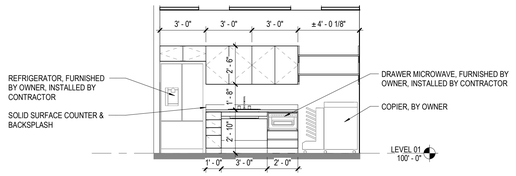
TAG	MANUFACTURER	STYLE	COLOR/FINISH	SIZE	COMMENTS	CONTACT
CPT-1	SHAW CONTRACT	5T202 ACTIVE ADVANCE TILE	04555 STRATEGY	12"x48" MONOLITHIC	OFFICE FIELD	
CPT-2	SHAW CONTRACT	5T112 ACTIVE TURN TILE	04555 STRATEGY	12"x48" MONOLITHIC	OFFICE ACCENT	
CPT-3	SHAW CONTRACT	50081 COLOR FRAME	81405 INSPIRE	24"x24" MONOLITHIC	COLOR ACCENT	
RT-1	ARMSTRONG FLOORING	PARALLEL USA 12	HAVANA HEATHER: J5162	18"x18" QUARTER TURN	PROVIDE MOISTURE MITIGATION ACCORDING TO TESTING PER SPEC	



6 DETAIL - GROUP TABLE
1/2" = 1'-0"



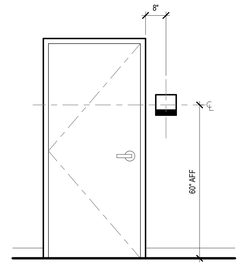
3 INT ELEV - RECEPTION (1632) N
1/4" = 1'-0"

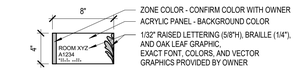


2 INT ELEV - WORKROOM (1633A) N
1/4" = 1'-0"

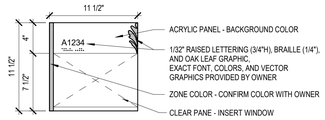
SIGNAGE SCHEDULE		
TAG	TYPE	TITLE ON SIGNAGE
F1	A	
F2	A	
F3	B	
F4	B	
F5	A	
F6	B	
F7	B	
F8	B	
F9	B	
F10	B	
F11	A	
SB1	A	
SB2	A	
SB3	B	

OWNER TO CONFIRM ROOM NUMBERS AND NAMES



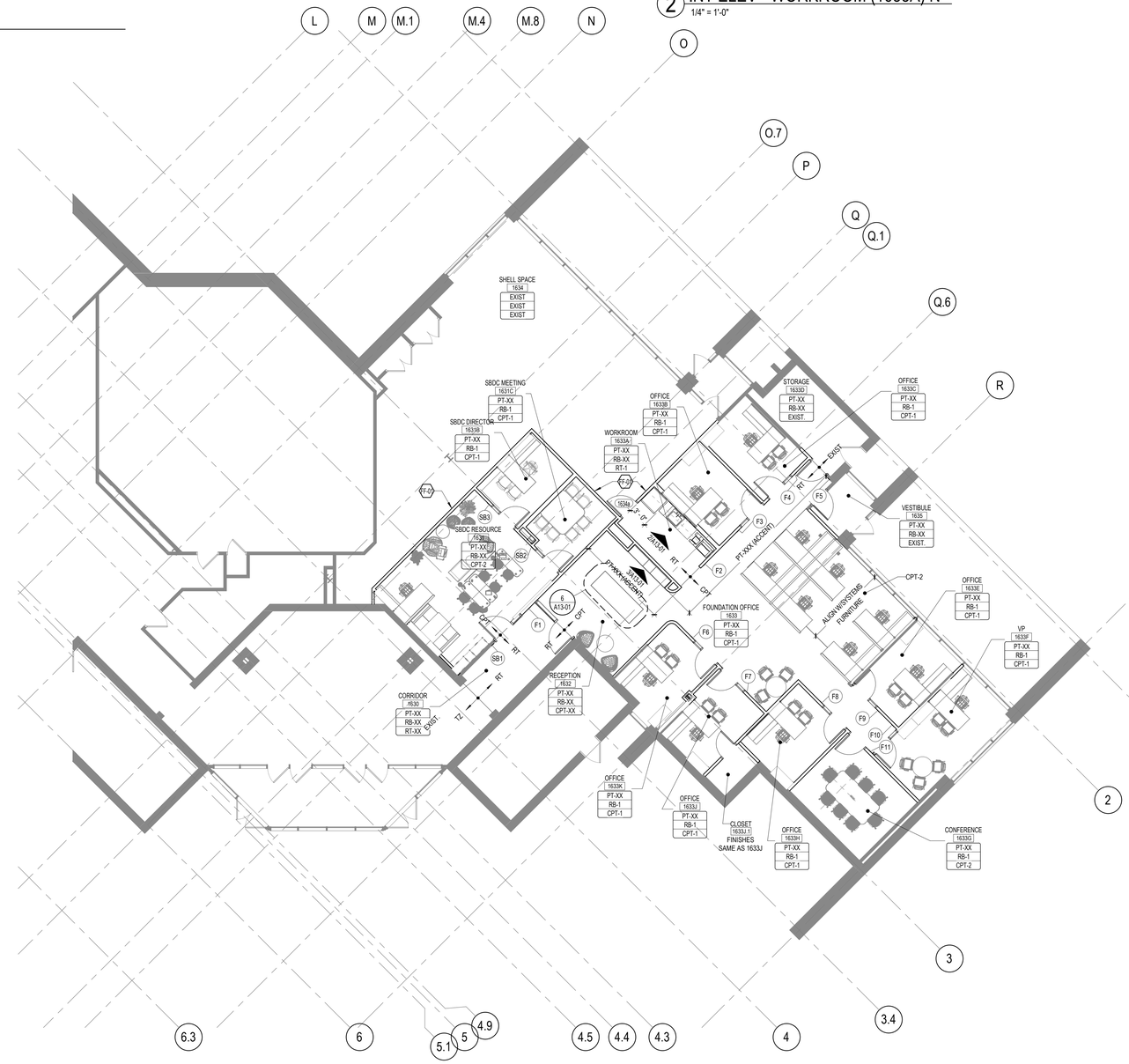


TYPE A - ROOM INDENTIFICATION (FIXED)

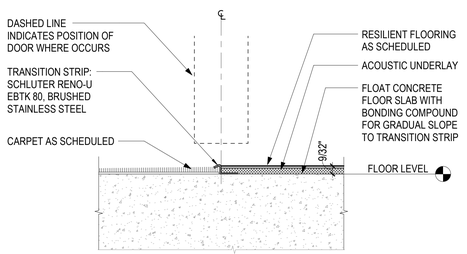


TYPE B - ROOM INDENTIFICATION (INSERT WINDOW)

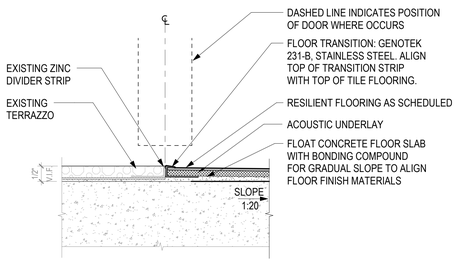
7 ROOM SIGNAGE
1 1/2" = 1'-0"



1 FINISH PLAN
1/8" = 1'-0"



4 DETAIL - RESILIENT TILE TO CPT TRANSITION
6" = 1'-0"



5 DETAIL - RESILIENT TILE TO TERRAZZO TRANSITION
6" = 1'-0"

INTERIOR FINISH PLAN GENERAL NOTES

1. REFER TO INTERIOR FINISH LEGEND IN A50 SERIES FOR INFORMATION.
2. SEE A60 SERIES FOR CASEWORK INFORMATION

INTERIOR FINISH PLAN LEGEND

ROOM FINISH TAG

ROOM NAME
A101A
XXX
XXX
XXX

WALL FINISH
WALL BASE FINISH
FLOOR FINISH

EXISTING FINISHES TO REMAIN. REFERENCE ENTIRE DOCUMENTS FOR ADDITIONAL WORK IN THIS AREA

ETR XXX MATERIAL TRANSITION TAG

MATERIAL PATTERN DIRECTION

MATERIAL SEAM

WPX WALL PROTECTION TAG.

WP1 CORNER GUARD TAG.

INTERIOR FINISH PLAN NOTES BY NUMBER

<<< Indicates Sheet Keynote on Plan

FF-01 THIS FACE OF WALL, PRIME PAINT ONLY.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

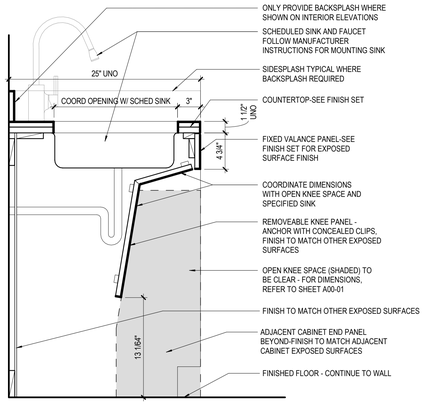
Job Number 021047.000

TITLE

INTERIOR FINISH PLAN & INTERIOR ELEVATIONS

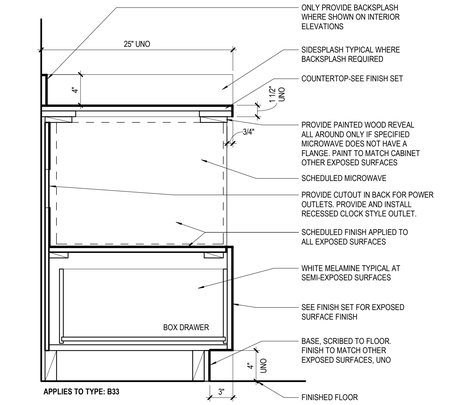
SHEET NUMBER

A13-01



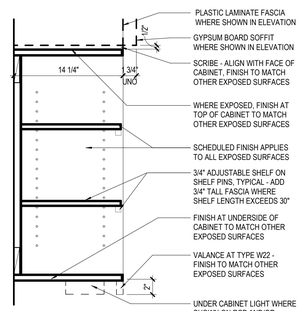
APPLIES TO TYPE: B23

7 SECTION - COUNTER AT SINK
1 1/2" = 1'-0"



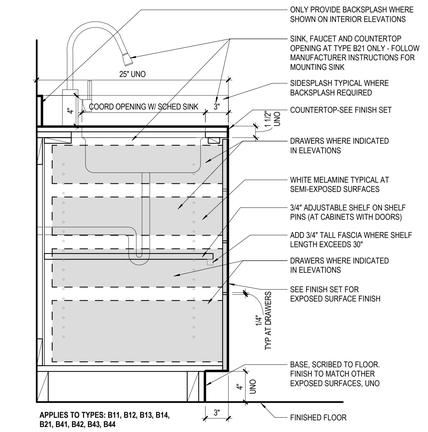
APPLIES TO TYPE: B33

6 SECTION - COUNTER WITH MICROWAVE
1 1/2" = 1'-0"



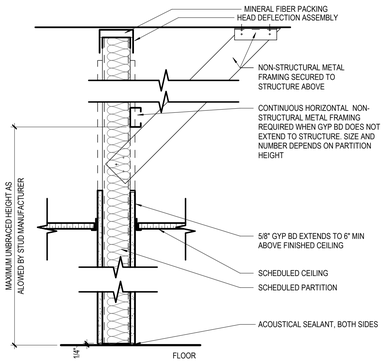
APPLIES TO TYPES: W21, W22

9 SECTION - OPEN SHELVING
1 1/2" = 1'-0"

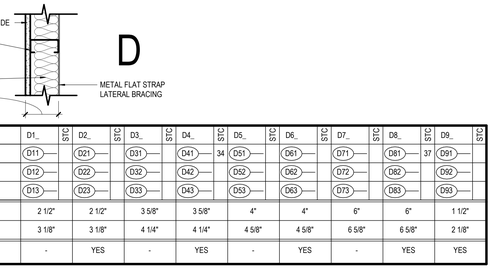


APPLIES TO TYPES: B11, B12, B13, B14, B21, B41, B42, B43, B44

8 SECTION - BASE CABINET
1 1/2" = 1'-0"



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

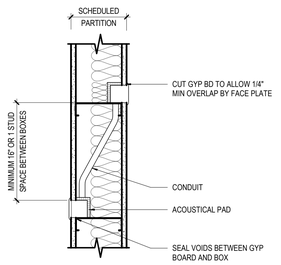


	D1_	STC	D2_	STC	D3_	STC	D4_	STC	D5_	STC	D6_	STC	D7_	STC	D8_	STC	D9_	STC
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	D11		D21		D31		D41	34	D51		D61		D71		D81	37	D91	
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	D12		D22		D32		D42		D52		D62		D72		D82		D92	
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	D13		D23		D33		D43		D53		D63		D73		D83		D93	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		1 1/2"	
BASIC PARTITION THICKNESS	3 1/8"		3 1/8"		4 1/4"		4 1/4"		4 5/8"		4 5/8"		6 5/8"		6 5/8"		2 1/8"	
ACOUSTICAL INSULATION	-		YES		-		YES		-		YES		-		YES		YES	

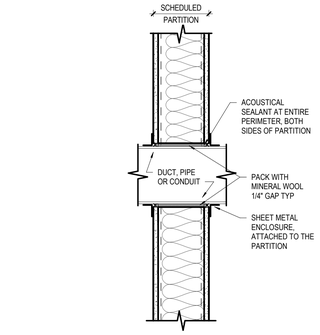
D "D" TYPE
1 1/2" = 1'-0"

	A1_	STC	A2_	STC	A3_	STC	A4_	STC	A5_	STC	A6_	STC	A7_	STC	A8_	STC
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE			A20	47	A30	40	A40	47	A50		A60		A70		A80	49
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	A11		A21	47	A31	40	A41	47	A51		A61		A71		A81	49
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	A12		A22		A32		A42		A52		A62		A72		A82	
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	A13		A23		A33		A43		A53		A63		A73		A83	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"	
BASIC PARTITION THICKNESS	3 3/4"		3 3/4"		4 7/8"		4 7/8"		5 1/4"		5 1/4"		7 1/4"		7 1/4"	
ACOUSTICAL INSULATION	-		YES		-		YES		-		YES		-		YES	
FIRE TEST NUMBER	-		UL DES U494		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465	

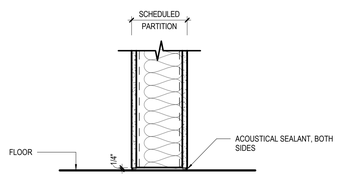
A "A" TYPE
1 1/2" = 1'-0"



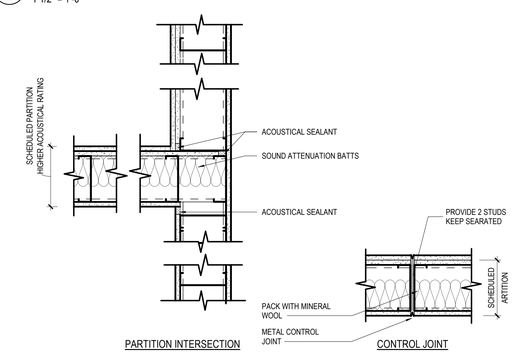
5 ACOUSTICAL PARTITION PLAN DETAIL
1 1/2" = 1'-0"



4 ACOUSTICAL DUCT SLEEVE SECTION
1 1/2" = 1'-0"



3 ACOUSTICAL PARTITION @ FLOOR
1 1/2" = 1'-0"



1 ACOUSTICAL PARTITION PLAN DETAILS
1 1/2" = 1'-0"

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

TITLE

INTERIOR DETAILS & PARTITION TYPES

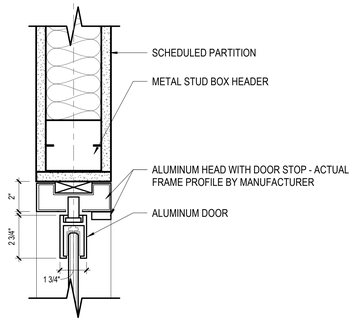
SHEET NUMBER

A50-01

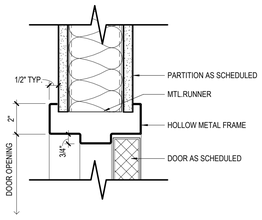
9/8/2023 9:11:43 PM Autodesk Docs://021047.000_Oakton College/ARCH_Oakton TenHoeve Renovation.rvt

DOOR SCHEDULE

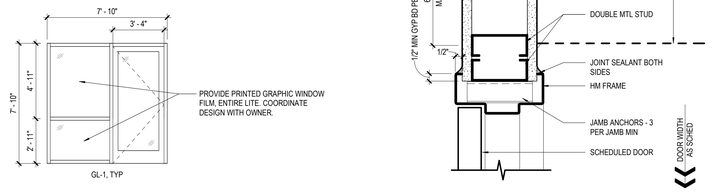
MARK			SIZE			DOOR				FRAME		FIRE RESISTANCE RATING	HARDWARE SET NO	REMARKS
DOOR NO	ROOM NUMBER	ROOM NAME	W	HT	THK	TYPE	MATL	FINISH	GLZ	MATL	FINISH			
1633Ga	1633G	CONFERENCE	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PREFIN	GL-1	HM	PAINT	-	4.0	
1633Fa	1633F	VP	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Ha	1633H	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Ja	1633J	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Jb	1633J.1	CLOSET	2' - 8"	7' - 0"	1 3/4"	17	WOOD	PREFIN	-	HM	PAINT	-	3.0	
1633Ka	1633	FOUNDATION OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Ba	1633B	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Ca	1633C	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Ea	1633	FOUNDATION OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1633Da	1633	FOUNDATION OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	3.0	
1635a	1633	FOUNDATION OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	2.0	
1631Ba	1631B	SBDC DIRECTOR	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	5.0	
1631Ca	1631C	SBDC MEETING	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	4.0	
1632a	1632	RECEPTION	3' - 4"	7' - 7 1/2"	1 3/4"	FG	ALUM	PREFIN	GL-1	ALUM	PREFIN	-	1.0	
1631a	1631	SBDC RESOURCE	3' - 4"	7' - 7 1/2"	1 3/4"	FG	ALUM	PREFIN	GL-1	ALUM	PREFIN	-	1.1	
1634a	1634	SHELL SPACE	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PREFIN	-	HM	PAINT	-	3.0	



3 DETAIL - ALUM DOOR HEAD, TYP.
3" = 1'-0"
JAMB, SIM.

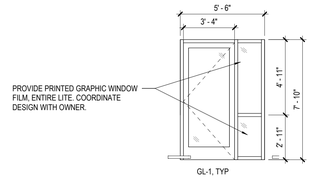


1 DETAIL - HM FRAME HEAD, TYP.
3" = 1'-0"



4 ELEVATION - OPENING #1632a
1/4" = 1'-0"

2 DETAIL - HM DOOR JAMB, TYP.
3" = 1'-0"

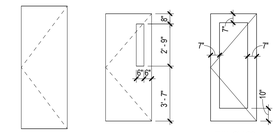


5 ELEVATION - OPENING #1631a
1/4" = 1'-0"

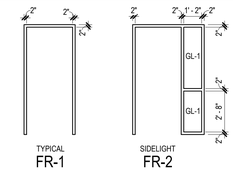
DOOR SCHEDULE GENERAL NOTES

1. GLAZING IN FIRE RESISTANCE RATED DOORS SHALL MATCH THE FIRE RESISTANCE RATING OF THE DOOR.
2. FIRE-RATING GLAZING IN DOORS SHALL MEET THE FIRE RATING REQUIREMENT OF THE DOORS TO WHICH THEY ARE INSTALLED.
3. DOORS TO HAVE BOXED HEADERS UNLESS STEEL CHANNELS ARE INDICATED IN THE REMARKS COLUMN OF THE DOOR SCHEDULE OR UNLESS OTHERWISE INDICATED BY HEAD DETAIL.

DOOR TYPES



FRAME TYPES



Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 9/13/23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
	ISSUED FOR BID	9/13/23

Job Number 021047.000

TITLE

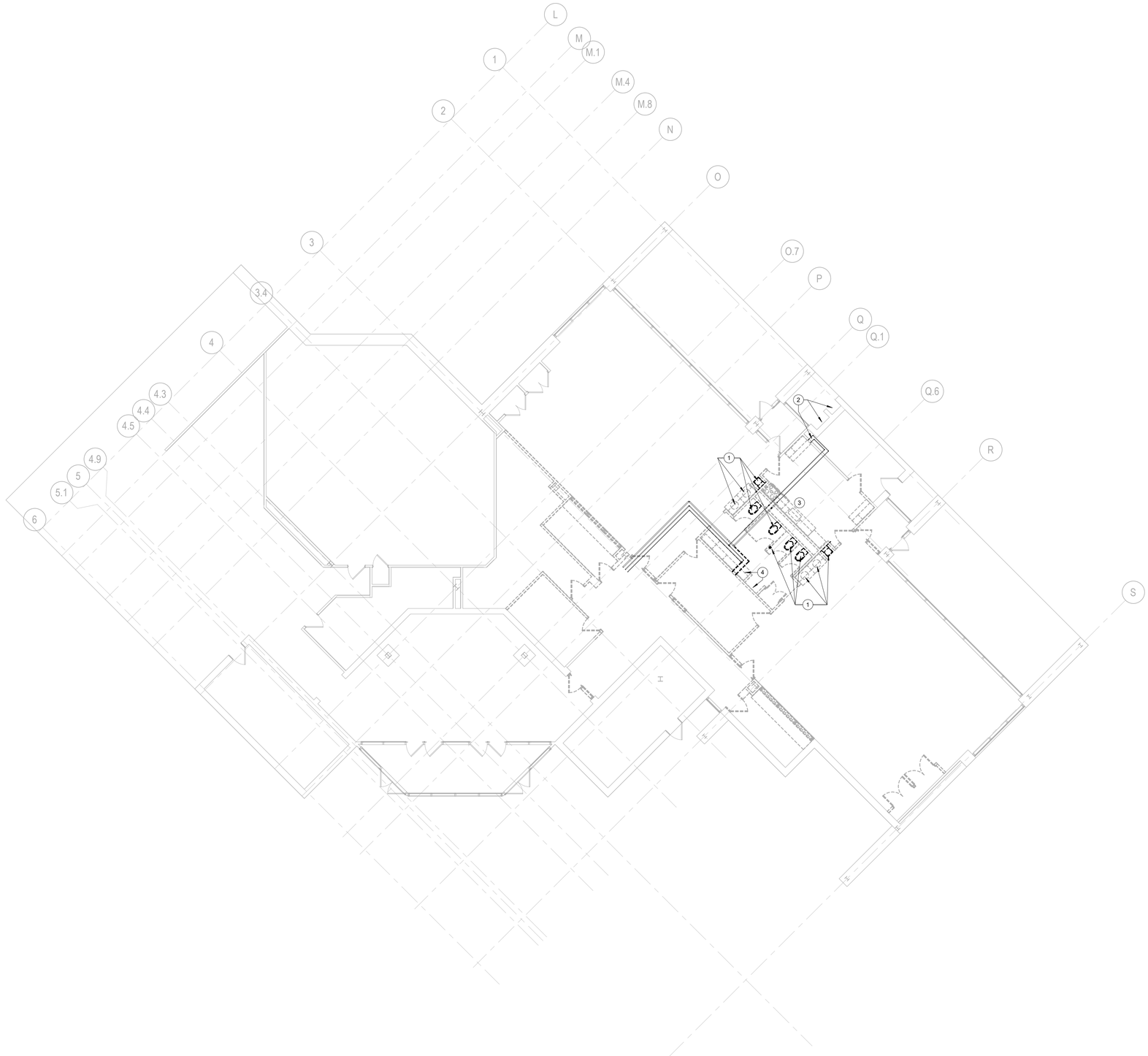
DOOR SCHEDULE & DETAILS

SHEET NUMBER

A62-01

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL X-RAY AND UTILIZE VIDEO TO ELECTRONICALLY DOCUMENT ALL PIPING AND ANY ELECTRICAL CONDUIT BELOW FLOOR SLAB IN ALL REMODELING AREAS PRIOR TO ANY DEMOLITION OR NEW WORK. DOCUMENT SHOULD INCLUDE CONDUIT ROUTING, PIPING TYPES, SIZES, ROUTING AND INVERT ELEVATIONS. POWER ROD AND PRESSURE JET ALL SANITARY WASTE PIPING, FROM POINT OF NEW CONNECTIONS, OUT TO EXTERIOR INSPECTION MANHOLE. AT CONCLUSION OF PRESSURE JETTING, PROVIDE VIDEO OF INTERIOR PIPE CONDITION TO ARCHITECT AND ENGINEER.



1 PARTIAL LEVEL 01 PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

PLUMBING DEMOLITION PLAN NOTES:

1. DISCONNECT & REMOVE EXISTING WATER CLOSETS, LAVATORIES, DRINKING FOUNTAIN, FLOOR DRAIN, WALL CLEANOUTS & ALL RELATED APPURTENANCES COMPLETE. REMOVE SANITARY WASTE PIPING BACK TO MAIN BELOW FLOOR SLAB AND CAP. REMOVE VENT PIPING BELOW FLOOR SLAB UP TO RECONNECTION POINT AT VENT RISER ABOVE CEILING. SAW-CUT FLOOR AND WALLS. REMOVE CW, HW & HWR PIPING BACK TO MAINS ABOVE CEILING AND CAP. VERIFY ALL EXISTING PIPING ROUTING IN FIELD. SEAL & PATCH FLOOR & WALL TO MATCH EXISTING CONSTRUCTION AND ADJACENT SURFACES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. EXISTING CW, HW, SANITARY & VENT PIPING SERVING EXTERIOR SINK AND DRINKING FOUNTAIN TO REMAIN. REPLACE INSULATION ON CW & HW PIPING WITH NEW. VERIFY ALL PIPING IN FIELD. FURNISH & INSTALL SHUT-OFF BALL VALVE TO SINK AND DRINKING FOUNTAIN AND THERMOSTATIC MIXING VALVE FOR SINK.
3. DISCONNECT & REMOVE EXISTING SINK, DISHWASHER, WALL CLEANOUT AND ALL RELATED APPURTENANCES COMPLETE. REMOVE SANITARY WASTE PIPING BACK TO MAIN BELOW FLOOR SLAB AND CAP. REMOVE VENT PIPING TO MAIN PIPING SERVING EXISTING TO REMAIN FIXTURES AND CAP. SAW-CUT FLOOR AND WALLS. REMOVE CW, HW & HWR PIPING BACK TO MAINS ABOVE CEILING AND CAP. VERIFY ALL EXISTING PIPING ROUTING IN FIELD. SEAL & PATCH ROOF, FLOOR & WALL TO MATCH EXISTING CONSTRUCTION AND ADJACENT SURFACES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. DISCONNECT & REMOVE EXISTING SINK, WASHER GUY-GRAY BOX, WALL CLEANOUT AND ALL RELATED APPURTENANCES COMPLETE. REMOVE SANITARY WASTE PIPING BACK TO MAIN BELOW FLOOR SLAB AND CAP. REMOVE VENT PIPING TO MAIN PIPING SERVING EXISTING TO REMAIN FIXTURES AND CAP. SAW-CUT FLOOR AND WALLS. REMOVE CW, HW & HWR PIPING BACK TO MAINS ABOVE CEILING AND CAP. VERIFY ALL EXISTING PIPING ROUTING IN FIELD. SEAL & PATCH ROOF, FLOOR & WALL TO MATCH EXISTING CONSTRUCTION AND ADJACENT SURFACES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL PLUMBING DEMOLITION NOTES:

NOTES RE: EXISTING CONDITIONS

1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL, PLUMBING AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
3. DISCONNECT AT SOURCE AND REMOVE EXISTING PLUMBING FIXTURES, PIPING, HANGERS, ANCHORS AND OTHER ITEMS WHICH ARE RENDERED OBSELETE BY THESE ALTERATIONS AND ADDITIONS.
4. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT OR MATERIALS REMOVED BY THE CONTRACTOR. SALVAGED EQUIPMENT WILL BE IDENTIFIED & TAGGED BY OWNER PRIOR TO START OF DEMOLITION AND DIRECTION WILL BE GIVEN TO THE CONTRACTOR FOR TURN OVER OF THIS EQUIPMENT AT THE SCHOOL LOADING DOCK. COORDINATE WITH OWNER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN OPERATIONAL AT ALL TIMES DURING OCCUPIED PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE DURING OFF HOURS. CONTRACTOR SHALL PROVIDE OWNER ADVANCE NOTICE IN WRITING MINIMUM 3 BUSINESS DAYS PRIOR TO SHUT DOWN.
6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
7. ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR. REFER TO SPECIFICATIONS.
8 WHERE THE EXISTING PIPING SERVING ANY EXISTING FIXTURE IN AREA OF EXISTING BUILDING NOT TO BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPING WITH PRIOR APPROVAL FROM THE ENGINEER.

NOTES RE: INSPECTING EXISTING BUILDING

1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
2. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
3. CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.

LEGENDS:

——— INDICATES EXISTING TO REMAIN.

- - - - INDICATES EXISTING TO BE DISCONNECTED AND REMOVED.

E.T.R. EXISTING TO REMAIN.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

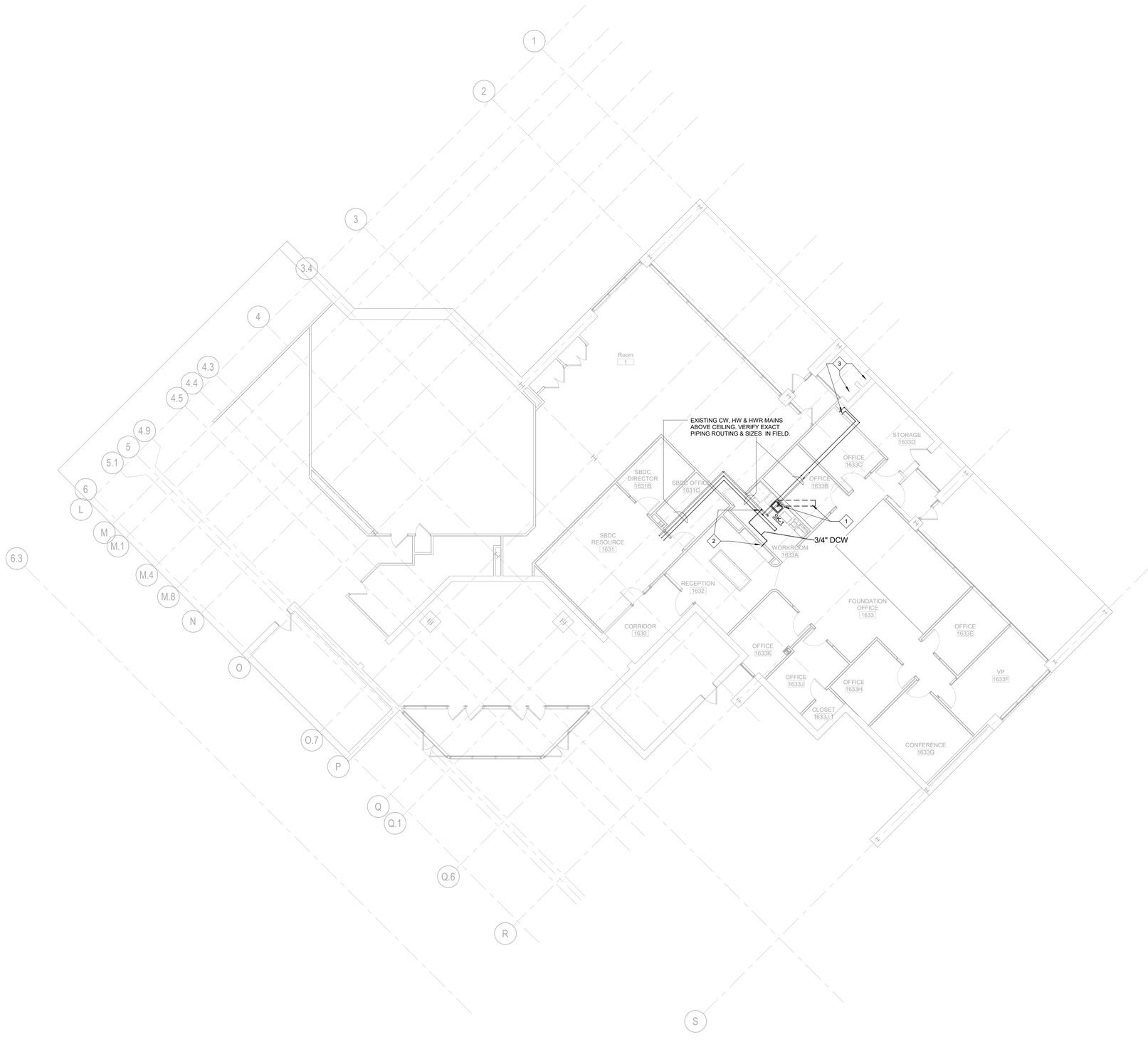
PARTIAL LEVEL 01 PLUMBING DEMOLITION PLAN

SHEET NUMBER

P04-01

ISSUED FOR BID 13SEPT23

9/8/2023 10:30:11 AM Autodesk Docs://Oakton Community College/OCC Partnership Hall Remodeling-MEPFP-2022-CENTRAL.rvt



1 PARTIAL LEVEL 01 PLUMBING PLAN
1/8" = 1'-0"

PLUMBING PLAN NOTES

1. 3/4" CW, HW & HWR FROM EXISTING MAINS ABOVE CEILING DOWN IN WALL TO CONNECT TO SINK. PROVIDE WITH SHUT-OFF BALL VALVES & CIRCUIT SETTER BALANCING VALVE ON HWR ABOVE CEILING. RUN A SEPARATE 3/4" CW IN CASEWORK OUT TO REFRIGERATOR WITH LEAD-FREE DUAL CHECK VALVE SIMILAR TO WATTS LF7R. 1-1/2" SANITARY WASTE FROM SINK DOWN IN WALL TO BELOW FLOOR SLAB TO CONNECT TO EXISTING 4" SAN. WASTE SERVING DEMO FLOOR DRAIN. VERIFY EXISTING BELOW FLOOR SLAB SANITARY WASTE PIPING EXACT LOCATION, ROUTING AND INVERT ELEVATION IN FIELD. SAW-CUT FLOOR. PATCH TO MATCH EXISTING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 1-1/2" VENT UP IN WALL TO ABOVE CEILING TO CONNECT TO EXISTING VENT RISER. VERIFY EXISTING VENT RISER LOCATION & SIZE IN FIELD.
2. CONNECT NEW 3/4" CW TO EXISTING CW MAIN ABOVE CEILING WITH SHUT-OFF BALL VALVE AND DIELECTRIC FITTINGS. 3/4" CW DOWN IN WALL AND OUT TO LEAD-FREE DUAL CHECK VALVE SIMILAR TO WATTS LF7R WITH CONNECTION TO OWNER PROVIDED COFFEE-MAKER. COORDINATE EXACT CONNECTION POINT IN FIELD.
3. EXISTING CW, HW, SANITARY & VENT PIPING SERVING EXTERIOR SINK AND DRINKING FOUNTAIN TO REMAIN. REPLACE INSULATION ON CW & HW PIPING WITH NEW. VERIFY ALL PIPING IN FIELD. FURNISH & INSTALL SHUT-OFF BALL VALVE TO SINK AND DRINKING FOUNTAIN AND THERMOSTATIC MIXING VALVE FOR SINK.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 PLUMBING PLAN

SHEET NUMBER

P11-01A

GENERAL PLUMBING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ASC	ABOVE SUSPENDED CEILING	WCO	WALL CLEAN-OUT
CI	CAST IRON	WF	WASH FOUNTAIN
CO	CLEAN-OUT	YCO	YARD CLEAN-OUT
CTC	CLOSE TO CEILING-EXPOSED	YD	YARD DRAIN
CW	COLD WATER SUPPLY	— - —	COLD WATER PIPING
DF	DRINKING FOUNTAIN	— — —	HOT WATER PIPING
DN	DOWN	— - - - —	HOT WATER RETURN PIPING
DS	DOWNSPOUT	—C—	CONDENSATE DRAIN PIPING
EW	EYE WASH	—S—	SPRINKLER PIPING
EWC	ELECTRIC WATER COOLER	—V—	VENTING PIPING
FCO	FLOOR CLEAN-OUT	—SS—	STM PIPING ASC
FD	FLOOR DRAIN	———	SAN PIPING ASC
FHB	FREEZE-PROOF HOSE BIBB	//////	PIPING BELOW GRADE
HWB	HOT WATER BOILER		STM PIPING BELOW GRADE
HWR	HOT WATER RETURN		SAN PIPING BELOW GRADE
HWS	HOT WATER SUPPLY		BALL VALVE
LAV	LAVATORY		CIRCUIT SETTER/BAL. VALVE
MB	MOP BASIN		GAS COCK
P/FT	PITCH PER FOOT		CHECK VALVE
PRV	PRESSURE RELIEF VALVE		TEMP. CONTROL VALVE
RD	ROOF DRAIN		SOLENOID VALVE
SAN	SANITARY SEWER		UNION
SD	SHOWER DRAIN		THERMOMETER GAGE
SH	SHOWER HEAD		SHOWER HEAD
SK	SINK		FREEZE PROOF HOSE BIBB
SMH	SANITARY SEWER MANHOLE		ELBOW UP
SS	SERVICE SINK		ELBOW DOWN
STM	STORM SEWER		CAP
STMH	STORM SEWER MANHOLE	S	CHROME/DROP SPRINKLR HEAD
TRV	TEMPERATURE RELIEF VALVE	S	BRASS/UPRIGHT SPRNKLR HEAD
TW	TEMPERED WATER		SHOCK ARRESTER W/ ISOLATION VALVE
UR	URINAL		CLEANOUT
VTR	VENT THROUGH ROOF		INLINE CIRC. PUMP
WC	WATER CLOSET		CONNECTION POINT BETWEEN NEW AND EXISTING

PLUMBING FIXTURES SCHEDULE:

(SEE ARCHITECTURAL DRAWINGS FOR FIXTURES MOUNTING HEIGHTS & MOUNTING)

SINK "SK"

JUST: MODEL SL-ADA-2117-A-GR "STYLIST GROUP": 21" FRONT TO BACK X 25" WIDE, 18 G.A. TYPE 304 STAINLESS STEEL SINK WITH SELF-RIMMING. SINGLE BOWL 6" DEEP. CENTER REAR DRAIN. PUNCH 3 HOLES ON 4" CENTERS. COORDINATE PUNCH HOLES WITH SPECIFIED CHICAGO FAUCETS.

JUST: MODEL J-ADA-35 STAINLESS STEEL, CRUMB CUP STRAINER WITH TAILPIECE, 3/8" ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2" CAST BRASS ADA APPROVED P-TRAP.

CHICAGO FAUCETS: MODEL W8D-L9E35-317ABCP POLISHED CHROME PLATE, L TYPE SWING SPOUT, 8" CENTERS WITH VANDAL PROOF ADA LEVER HANDLE, DECK MOUNTED, LOW LEAD FAUCETS.

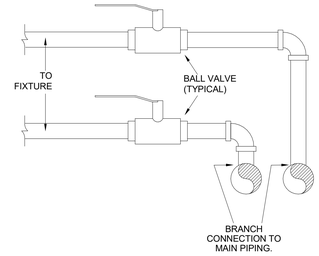
PROVIDE WITH POWERS MODEL LFE480-00 LEAD FREE THERMOSTATIC MIXING VALVE.

WALL CLEANOUT "WCO"

JAY R. SMITH: MODEL 4472 WALL CLEANOUT WITH STAINLESS COVER. BRONZE PLUG.

FLOOR CLEANOUT "FCO"

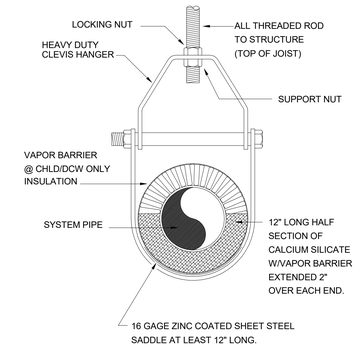
JAY R. SMITH: MODEL 4045 FLOOR CLEANOUT TAPER THREAD BRASS PLUG. SQUARE NICKEL BRONZE TOP. SEE PLAN FOR PIPE SIZE. TOP MUST ALIGN WITH FINISHED FLOOR. COORDINATE WITH SLAB THICKNESS.



BALL VALVES SHOWN AS SHUT-OFF VALVES MUST BE INSTALLED AT EVERY BRANCH TAKE-OFF.

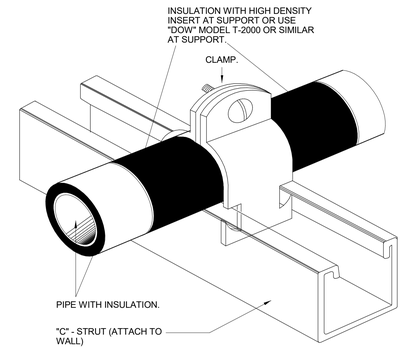
TYPICAL BRANCH DOMESTIC WATER PIPING OFF PIPING MAINS

NO SCALE



CLEVIS HANGER DETAIL

NO SCALE



PIPE SUPPORT AT WALL

NO SCALE

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

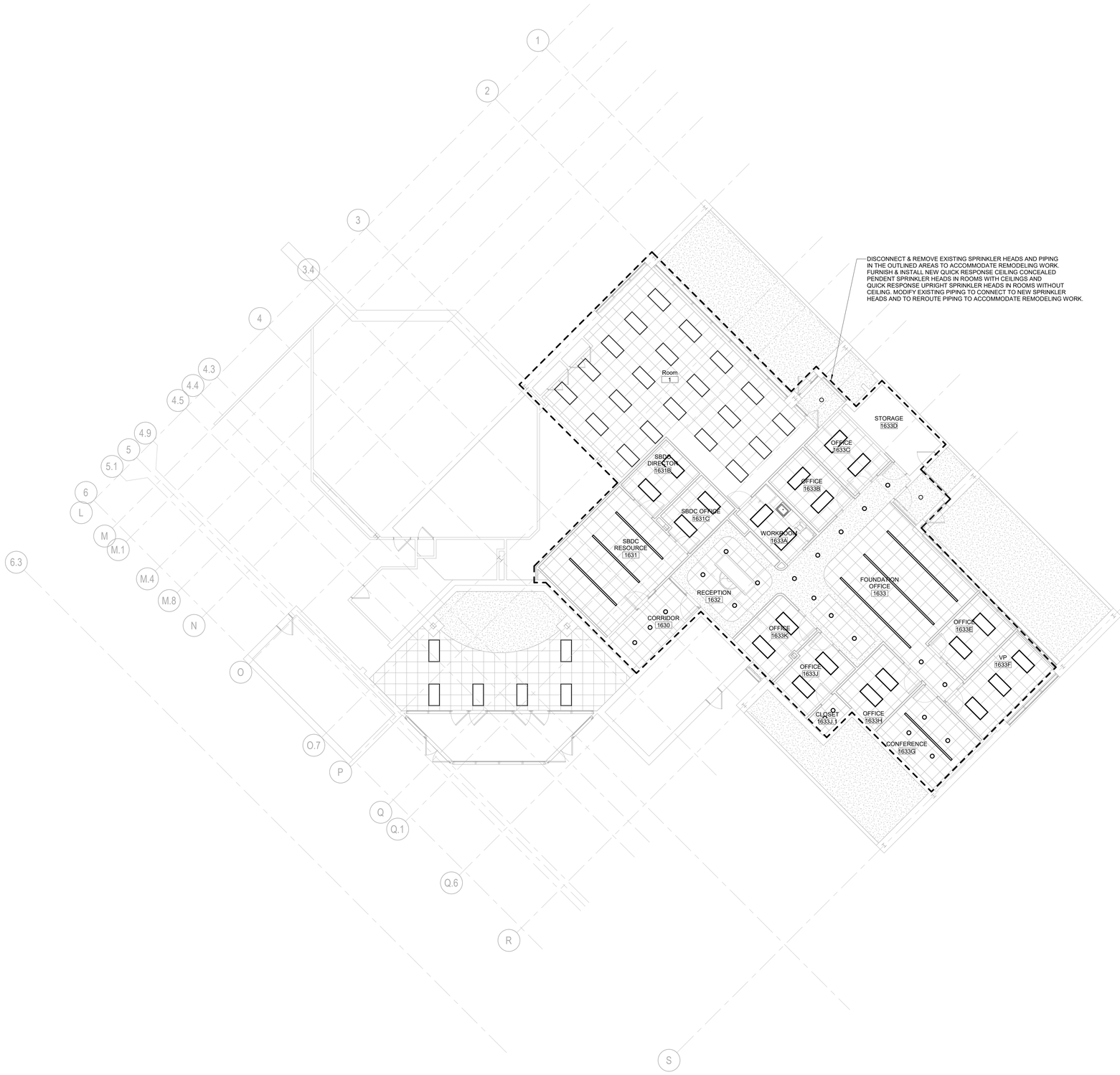
TITLE

PLUMBING FIXTURES SCHEDULE, DETAILS & SYMBOLS LIST

SHEET NUMBER

P20-00

ISSUED FOR BID 13SEPT23



1 PARTIAL LEVEL 01 FIRE PROTECTION
1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. CONTRACTOR SHALL DOCUMENT ELECTRONICALLY ACTUAL LOCATION AND ROUTING OF EXISTING SPRINKLER PIPING AND SPRINKLER HEADS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENGINEERING OF THE FIRE SUPPRESSION SYSTEM, INCLUDING PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS. ENGINEERING SHALL BE PERFORMED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER WHO SHALL SEAL AND SIGN ALL WORKING PLANS, DETAILS AND CALCULATIONS.
3. EACH SPRINKLER HEAD OUTLET WITHIN THE SPACE SHALL FEED A SINGLE SPRINKLER HEAD. MODIFY THE EXISTING SPRINKLER PIPING FOR PROVIDING WATER SUPPLY TO THE ADDITIONAL SPRINKLER HEADS ADDED AS REQUIRED PER NFPA 13 IN EXISTING AREAS WHERE NEW SPRINKLER PIPING IS INSTALLED AND/OR MODIFIED.
4. ALL NEW MATERIAL AND EQUIPMENT SHALL BE LISTED BY U.L. AND APPROVED BY F.M.
5. IN THE FINISHED CEILING AREAS, SPRINKLER HEADS SHALL BE QUICK RESPONSE CONCEALED PENDENT TYPE WITH COVER PLATE COLOR TO BE SELECTED BY ARCHITECT. IN AREAS WITHOUT CEILING, SPRINKLER HEADS TO BE UPRIGHT OR SIDEWALL. ALL SIDE WALL OR UPRIGHT SPRINKLER HEADS SHALL BE PROVIDED WITH PROTECTIVE COVER. ALL UPRIGHT & SIDEWALL SPRINKLER HEADS AND PROTECTIVE COVER FINISHES & COLOR TO BE SELECTED BY THE ARCHITECT. ORIFICE SIZE, MAKE AND MODEL OF SPRINKLER HEADS SHALL MATCH WITH THE BUILDING SPRINKLERS RATED AT 175 PSI, BUT WHERE SYSTEM PRESSURES EXCEED 175 PSI, PROVIDE HIGH PRESSURE SPRINKLER HEADS. ACCEPTABLE MANUFACTURERS ARE: VIKING, TYCO/GRINNEL, AND RELIABLE.
6. MAINTAIN MINIMUM CLEARANCE OF 18 INCHES OR GREATER BETWEEN SPRINKLER HEAD DEFLECTOR AND THE TOP OF STORAGE.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
8. CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK. ANY COMPONENT OF THE EXISTING SYSTEM REQUIRING REPLACEMENT OR UPGRADE TO MEET CODES MUST BE REPLACED WITH NEW. REROUTE EXISTING PIPING, RELOCATE EXISTING SPRINKLER HEADS AND ADD NEW SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE NEW WALLS, STRUCTURAL COMPONENTS AND/OR CHANGES MADE BY OTHER TRADES.
9. CONTRACTOR SHALL INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13, IFC 2015 AND LOCAL BUILDING CODES.
10. SUBMIT COORDINATED SHOP DRAWINGS TO ARCHITECT, LOCAL FIRE PREVENTION BUREAU AND OWNER'S INSURANCE UNDERWRITERS FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF A FIRE SUPPRESSION SYSTEM. THE SHOP DRAWINGS SHALL INCLUDE AND SHOW THE BASIS OF COMPLIANCE WITH THE DESIGN DENSITY AND THE SPECIFIC ARRANGEMENT OF THE SYSTEM. THE DETAILS ON THE SHOP DRAWINGS SHALL INCLUDE HANGER LOCATIONS, EXISTING AND NEW PIPE SIZING AND ELEVATIONS, DUCT, DIFFUSER, MECHANICAL EQUIPMENT, LIGHT FIXTURE AND SPRINKLER HEAD LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION. THE SHOP DRAWINGS SUBMITTAL SHALL BE SIGNED AND SEALED BY THE CONTRACTORS QUALIFIED LICENSED PROFESSIONAL ENGINEER. SUBMITTAL SHALL ALSO INCLUDE MANUFACTURER'S INSTALLING INSTRUCTIONS FOR ANY SPECIALLY LISTED EQUIPMENT INCLUDING DESCRIPTIONS, LIMITATIONS FOR ANY SPRINKLER DEVICES, AND FITTINGS.
11. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEAD LOCATIONS ON THE SHOP DRAWINGS ARE SUBJECT TO APPROVAL BY THE ARCHITECT.
12. SPRINKLERS SHALL BE PLACED IN THE CENTER OF CEILING TILES IN BOTH DIRECTIONS.
13. PROVIDE ACCESS PANELS FOR ALL VALVES, FLOW SWITCHES AND OTHER ITEMS REQUIRING SERVICE AND ACCESSIBILITY ABOVE NON-ACCESSIBLE CEILING.
14. CONTRACTOR IS RESPONSIBLE TO SAW-CUT EXISTING WALLS, CORE FLOORS AND CEILINGS FOR INSTALLING NEW PIPING. ALL NEW PIPING PENETRATIONS SHALL BE PROPERLY SEALED WITH U.L. LISTED FIRE STOPPING MATERIALS TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING, REGARDLESS IN THE EXPOSED CONSTRUCTION AREAS OR ABOVE DROPPED-CEILING AREAS.
15. CONTRACTOR SHALL SIZE SPRINKLER PIPING HYDRAULICALLY IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 2013 EDITION AND IFC 2015 UNLESS NOTED OTHERWISE. PROVIDE PERMANENT METAL PLACARD AT THE BASE OF EACH RISER, INDICATING THE DESIGN, AREA, FLOW AND PRESSURE REQUIRED FOR EACH SYSTEM.
16. POOLING OF CUTTING OILS OR OTHER PETROLEUM BASED PRODUCTS IN THE SPRINKLERS MUST BE AVOIDED. THEREFORE, ALWAYS CUT AND THREAD PIPE WITHOUT THE SPRINKLER PIPING BEING ATTACHED AND BE SURE TO CHECK AND DRAIN THE DROPS OF ANY EXCESSIVE OIL PRIOR TO INSTALLATION OF THE SPRINKLERS.
17. ALL PIPING TO BE INSTALLED ABOVE ESTABLISHED FINISHED CEILING AND TO RUN CONCEALED TO FOLLOW THE ARCHITECT'S DESIGN INTENTION. ANY PIPING THAT MUST RUN EXPOSED SHALL BE PAINTED WITH COLOR SELECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
18. CONTRACTOR MUST NOTIFY ARCHITECT, OWNER AND LOCAL FIRE DEPARTMENT IN WRITING MINIMUM 5 BUSINESS DAYS PRIOR TO ANY SHUTDOWN OF SYSTEM.
19. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS FOR ALL PIPING AFTER INCORPORATING ALL THE CHANGES MADE IN FIELD.
20. ANY EXISTING SPRINKLER PIPING NO LONGER USED OR EXISTING ABANDONED PIPING, HANGERS, SUPPORTS AND RELATED APPURTENANCES SHALL BE REMOVED.
21. CONTRACTOR SHALL COORDINATE PIPING RUNS AND DROPS TO CEILING WITH ALL OTHER TRADES AND OFFSET ROUTING TO AVOID DUCTWORK, PIPING, MECHANICAL EQUIPMENT & ELECTRICAL.

Perkins&Will
The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS
MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

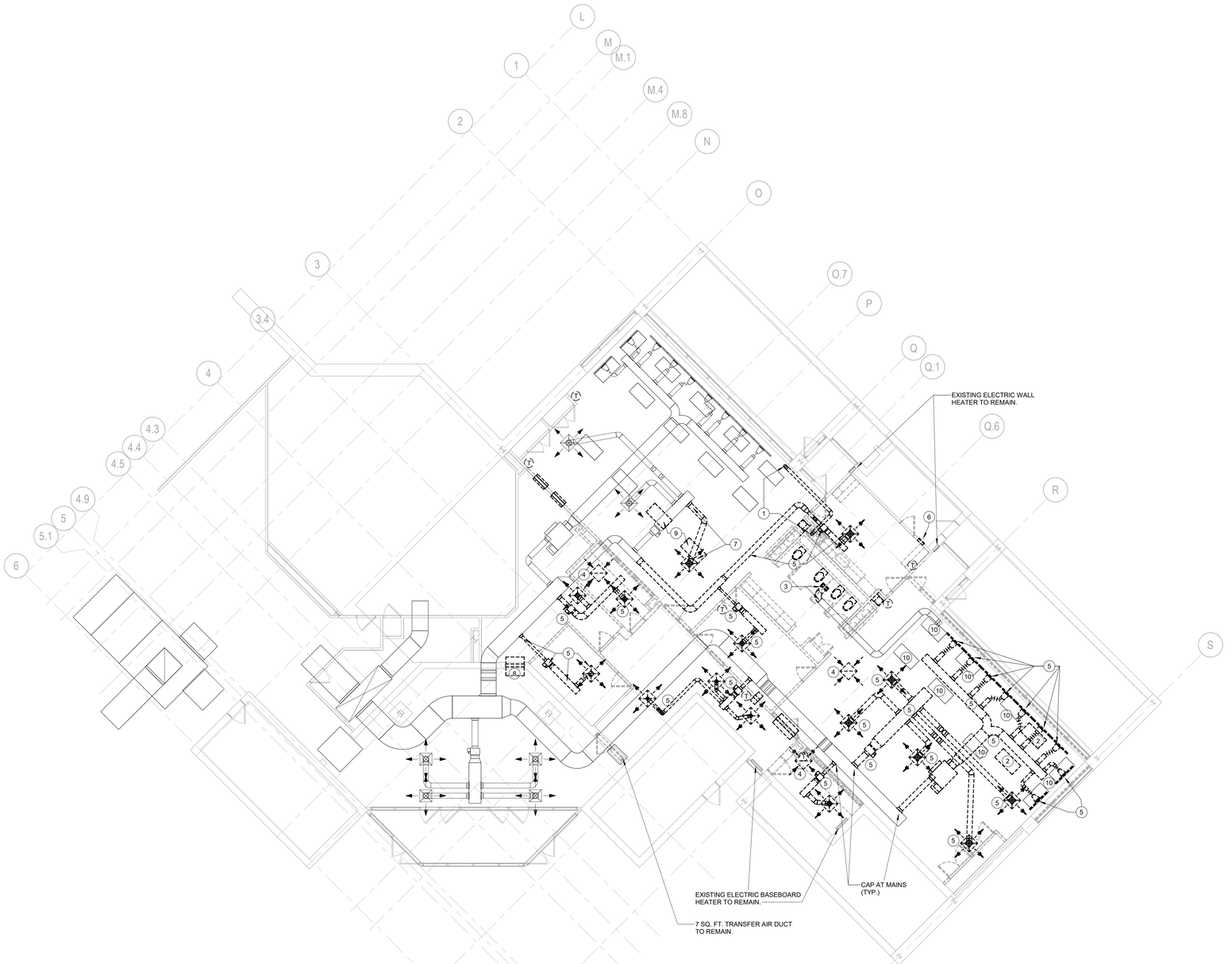
TITLE

PARTIAL LEVEL 01
FIRE PROTECTION
PLAN

SHEET NUMBER

FP11-01A

PROVIDE PRE-BALANCE REPORT FOR SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS, REGISTERS AND GRILLES IN AREAS BEING RENOVATED PRIOR TO ANY WORK BEING PERFORMED. ALL DEFICIENCIES IN THE SYSTEM TO BE INCLUDED IN THE REPORT AND SUBMIT TO ARCHITECT AND ENGINEER.



1 PARTIAL LEVEL 01 MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

MECHANICAL DEMOLITION PLAN NOTES

1. DISCONNECT & REMOVE EXISTING 6"Ø KITCHEN EXHAUST DUCT UP THRU SECOND FLOOR TO GOOSENECK ON ROOF, FIRE DAMPER AND ALL RELATED APPURTENANCES COMPLETE. VERIFY EXACT ROUTING IN FIELD. SEAL & PATCH FLOOR AND ROOF WEATHER TIGHT. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. RELOCATE EXISTING ELECTRIC RADIANT CEILING PANELS, CONTROLS, WIRING AND ALL RELATED APPURTENANCES TO NEW LOCATIONS IN CONFERENCE 1633G. SEE M11-01A FOR NEW LOCATIONS. MODIFY EXISTING CONTROLS AND WIRING AS REQUIRED.
3. DISCONNECT & REMOVE EXISTING EXHAUST AIR REGISTER AND REMOVE PORTION OF EXHAUST DUCTWORK TO POINT OF RECONNECTION WITH NEW DUCTWORK.
4. DISCONNECT & REMOVE EXISTING RETURN AIR REGISTER AND RELATED APPURTENANCES COMPLETE.
5. DISCONNECT & REMOVE EXISTING TERMINAL UNIT, SUPPORTS, CONTROLS, T-STAT, WIRING, DUCTWORK, DIFFUSERS AND ALL RELATED APPURTENANCES COMPLETE. REMOVE SUPPLY AIR DUCT FROM UNIT TO MAIN SUPPLY AND CAP AT MAIN.
6. DISCONNECT & REMOVE EXISTING ELECTRIC WALL MOUNTED UNIT HEATER, CONTROLS, WIRING AND ALL RELATED APPURTENANCES COMPLETE.
7. DISCONNECT & REMOVE EXISTING DIFFUSERS AND DUCTWORK BACK TO MAIN AND CAP.
8. DISCONNECT & REMOVE EXISTING TRANSFER AIR DUCT, FIRE DAMPER, GRILLES & RELATED APPURTENANCES COMPLETE. PATCH & PAINT WALLS TO MATCH EXISTING.
9. DISCONNECT & REMOVE EXISTING ELECTRIC RADIANT CEILING PANEL, CONTROLS, WIRING AND ALL RELATED APPURTENANCES BACK TO EXISTING UNITS TO REMAIN. VERIFY ALL EXISTING IN FIELD.
10. EXISTING ELECTRIC RADIANT CEILING PANELS TO BE MODIFIED TO FIT INTO NEW CEILING. MODIFY EXISTING CONTROLS AND WIRING AS REQUIRED.

GENERAL MECHANICAL DEMOLITION NOTES:

NOTES RE: EXISTING CONDITIONS

1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
3. DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER MECHANICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED IN WORKING CONDITION TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
4. DISCONNECT, REMOVE OR RELOCATE EXISTING MECHANICAL EQUIPMENT, MATERIALS, AND ALL OTHER MECHANICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE ALTERATIONS. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN MECHANICAL OPERATION AT ALL TIMES DURING OCCUPIED PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE DURING OFF HOURS. CONTRACTOR SHALL PROVIDE OWNER ADVANCE NOTICE IN WRITING MINIMUM 3 BUSINESS DAYS PRIOR TO SHUT DOWN.
6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
7. ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR. REFER TO SPECIFICATIONS.
8. WHERE THE EXISTING PIPING, CONDUIT OR DUCTWORK SERVING ANY EXISTING MECHANICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPES OR DUCTWORK WITH PRIOR APPROVAL FROM ENGINEER.

NOTES RE: INSPECTING EXISTING BUILDING

1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
2. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
3. CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
4. CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES IF HE NEGLECTS TO DO SO.

LEGENDS:

- - - - INDICATES EXISTING TO REMAIN.
- - - - INDICATES EXISTING TO BE DISCONNECTED AND REMOVED.

E.T.R. EXISTING TO REMAIN.

Perkins&Will
The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS
MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 MECHANICAL DEMOLITION PLAN

SHEET NUMBER

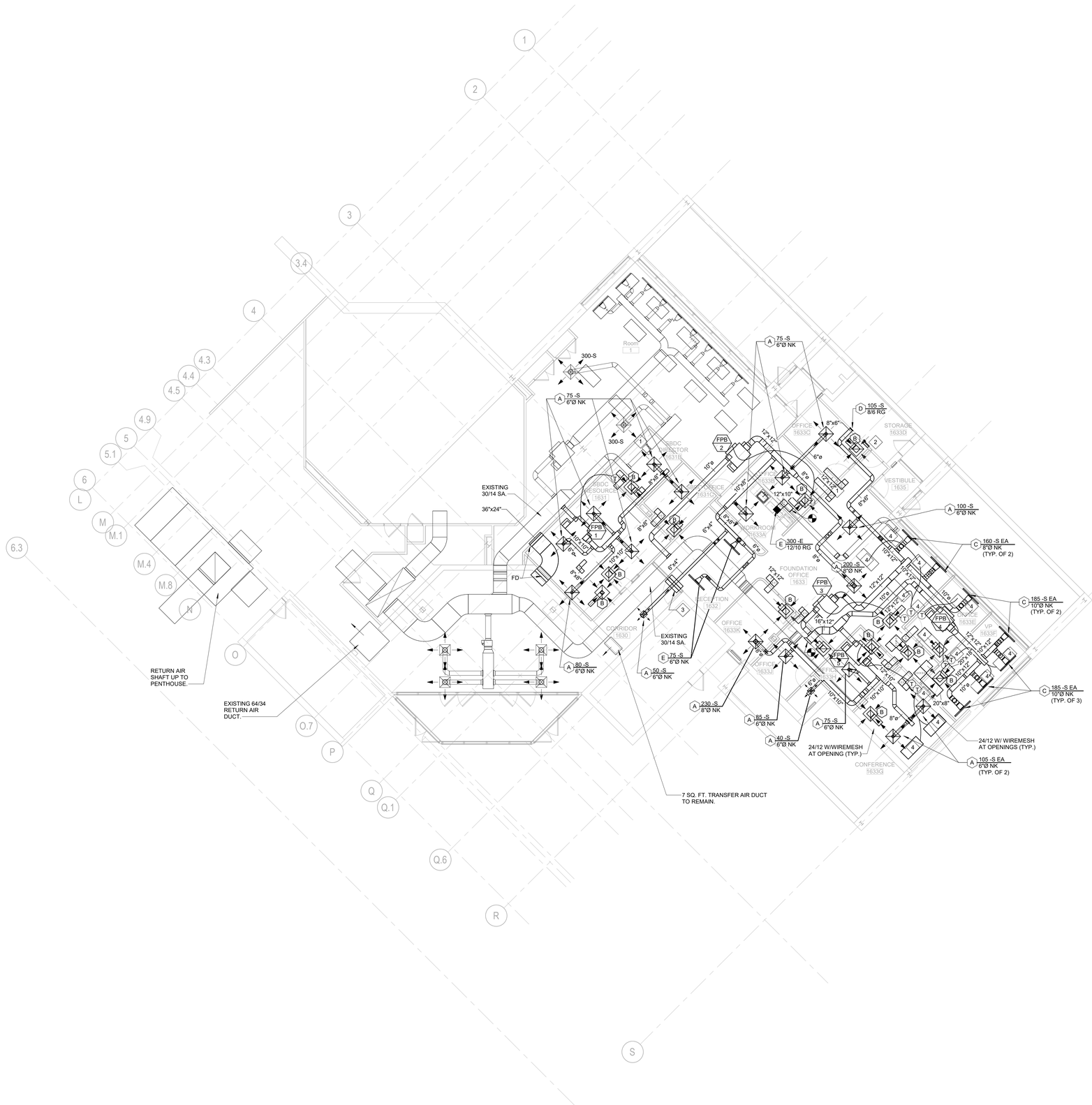
M04-01

9/8/2023 10:17:57 AM Autodesk Docs://Oakton Community College/OCC Partnership Hall Remodeling-MEPFP-2022-CENTRAL.rvt

PROVIDE PRE-BALANCE REPORT FOR SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS, REGISTERS AND GRILLES IN AREAS BEING RENOVATED PRIOR TO ANY WORK BEING PERFORMED. ALL DEFICIENCIES IN THE SYSTEM TO BE INCLUDED IN THE REPORT AND SUBMIT TO ARCHITECT AND ENGINEER.

MECHANICAL PLAN NOTES

1. EXISTING VAV BOX. CONFIRM PROPER OPERATION. REBALANCE TO 600 CFM.
2. FURNISH & INSTALL NEW MARKEL MODEL #G3052T2DWB ELECTRIC WALL HEATER AT NEW WALL. NEW HEATER SHALL INCLUDE MANUFACTURER'S DISCONNECT SWITCH AND TAMPER-PROOF BUILT-IN THERMOSTAT. UNIT SHALL BE 2 KW, 277 VOLT, 1 PHASE, 7.2 AMPS, 6826 BTU/HR. VERIFY EXACT LOCATION IN FIELD.
3. FURNISH & INSTALL NEW 7 SQ. FT. RETURN DUCT ABOVE CEILING THROUGH WALL WITH FIRE DAMPER. COVER OPENINGS WITH WIREMESH.
4. RELOCATE EXISTING ELECTRIC RADIANT CEILING PANELS TO NEW CEILING. PROVIDE WITH NEW SUPPORT BRACKETS, T-STAT AND CONTROL WIRING. INTERLOCK T-STAT CONTROL WITH FPB OPERATION. CONFIRM UNIT FOR PROPER OPERATION.



1 PARTIAL LEVEL 01 MECHANICAL PLAN
1/8" = 1'-0"

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL
60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 MECHANICAL PLAN

SHEET NUMBER

M11-01A

GENERAL MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CFM	CUBIC FEET PER MINUTE		SUPPLY DUCT
CH	CABINET HEATER		RETURN/EXHAUST DUCT
EA	EXHAUST AIR		OUTSIDE AIR
EF	EXHAUST FAN		REINFORCED/INSULATED FLEX
FC	FLEX CONNECTION		SUPPLY DIFFUSER
RA	RETURN AIR		RETURN REGISTER
SA	SUPPLY AIR		45 DEGREE TAP
OA	OUTSIDE AIR		CAP
T	THERMOSTAT		GATE VALVE
H	HUMIDISTAT		B & G CIRCUIT SETTER
UH	UNIT HEATER		CHECK VALVE
VD	VOLUME DAMPER		GAS COCK/ PLUG COCK
WG	WITH GUARD		GLOBE VALVE
O.A.C.	OPENING ABOVE CEILING		TEMP. CONTROL VALVE
	SUPPLY UP - DOWN		WELDED ELBOW
	RETURN/EXHAUST UP - DN.		BUTTERFLY VALVE
	OUTSIDE AIR UP - DOWN		STRAINER
CWS	CONDENSER WATER SUPPLY		ELBOW UP
CWR	CONDENSER WATER RETURN		ELBOW DOWN

GRILLE, DIFFUSER & REGISTER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	S/R	DESCRIPTION	OBD	REMARKS
A	TITUS	TMSA-AA	S	SQ FACE ALUMINUM ADJUSTABLE DIFFUSER. (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 2, 3, 5
B	TITUS	4FL	R	ALUMINUM RETURN/TRANSFER REGISTER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 2, 3, 4, 5, 9
C	TITUS	TBDI-80	S	PLENUM SLOT DIFFUSER, 2 SLOTS, 1" SLOT WIDTH, 48" LONG. (SEE PLANS FOR SIZE AND CEILING TYPES)	Y	1, 5, 6
D	TITUS	300FS	S	ALUMINUM DOUBLE DEFLECTION SUPPLY REGISTER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 3, 5, 7
E	TITUS	350FS	R/E	ALUMINUM RETURN/EXHAUST REGISTER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 3, 5, 8

REMARKS:

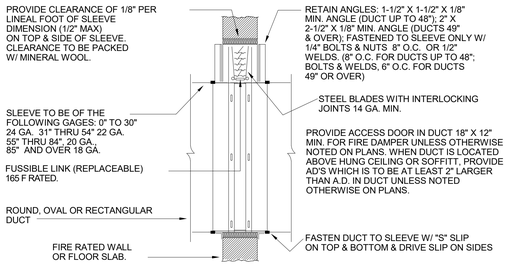
1. FINISH & COLOR BY ARCHITECT.
2. LAY-IN FULL FACE; 23-5/8" X 23-5/8" PANEL SIZE- UNLESS SHOWN OTHERWISE ON PLANS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
3. SURFACE MOUNT.
4. 45 DEFLECTION, 1/2" SPACING.
5. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
6. SLOT TO FIT WITHIN CEILING GRID, PROVIDE CROSS NOTCH AS REQUIRED.
7. ADJUSTABLE DEFLECTION, 3/4 INCH SPACING.
8. 35° DEFLECTION, 3/4 INCH SPACING.
9. OBD CAN BE ELIMINATED ON TRANSFER GRILLES.

FAN POWERED BOX SCHEDULE

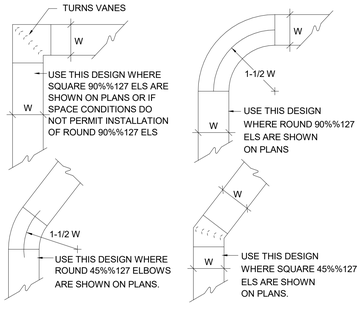
TAG	MANUFACTURER MODEL NUMBER	VALVE RANGE		INLET SIZE	MAX. NC	ELECTRICAL COIL				H.P.	VOLTAGE	REMARKS
		MAX.	MIN.			E.A.T.	K.W.	M.B.H.	STEPS			
FPB 1	TITUS DTFS-F-B	455	150	8	30	65	5	17.06	SCR	1/3	480 VOLT 60 CYCLE 3 PHASE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
FPB 2	TITUS DTFS-F-C	625	210	10	30	65	6	20.5	SCR	1/3	480 VOLT 60 CYCLE 3 PHASE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
FPB 3	TITUS DTFS-F-C	710	235	10	30	65	7	23.9	SCR	1/3	480 VOLT 60 CYCLE 3 PHASE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
FPB 4	TITUS DTFS-F-C	740	245	10	30	65	7	23.9	SCR	1/3	480 VOLT 60 CYCLE 3 PHASE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
FPB 5	TITUS DTFS-F-C	640	215	10	30	65	6	20.5	SCR	1/3	480 VOLT 60 CYCLE 3 PHASE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

REMARKS:

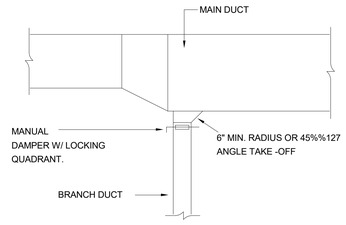
1. ALL FAN POWERED BOXES TO HAVE ELECTRIC REHEAT COILS.
2. BOXES ARE TO BE PRESSURE INDEPENDENT WITH AVERAGING AIR FLOW SENSORS, SCR FAN SPEED CONTROL, TOTALLY INCLOSED ECM MOTOR & GASKETED ENCLOSURE.
3. BOXES SHALL BE LINED WITH 1" FIBERGLASS IN COMPLIANCE WITH NFPA 90A AND UL 131. ALL EXPOSED EDGES TO BE SEALED.
4. ACCESS PANEL FOR AIR VALVE SERVICE.
5. ALL FAN POWERED BOXES SHALL HAVE THROWAWAY FILTER. PROVIDE FILTER SIZE LIST.
6. ALL FAN POWERED BOXES SHALL HAVE FIELD MOUNTED D.D.C. CONTROLS.
7. MODULATING SCR ELECTRIC HEATING COILS.
8. ALL FAN POWERED BOXES TO BE SERIES FLOW BOXES.
9. ROOM MAXIMUM NC=30.
10. PROVIDE WITH INTEGRAL INTERNAL AND EXTERNAL ATTENUATOR SECTION.
11. CONTROL ENCLOSURE, DISCONNECT & ELECTRICAL ENCLOSURE SHALL BE PLENUM RATED. COORDINATE RIGHT & LEFT HAND CONFIGURATION.
12. ALL FAN POWERED BOXES TO BE PROVIDED WITH FUSED DISCONNECT SWITCH.
13. ALL FAN POWERED BOXES TO BE PROVIDED WITH INDUCTOR/FILTER/CHOKE AS REQUIRED TO MINIMIZE HARMONICS AND IMPROVE POWER FACTORS OF THE ECM MOTORS.
14. SUBSTITUTE MANUFACTURER TO PROVIDE CALCULATIONS THAT DISCHARGE AND RADIATED SOUND POWER LEVELS ARE EQUIVALENT TO TITUS-FANTOM BOXES.



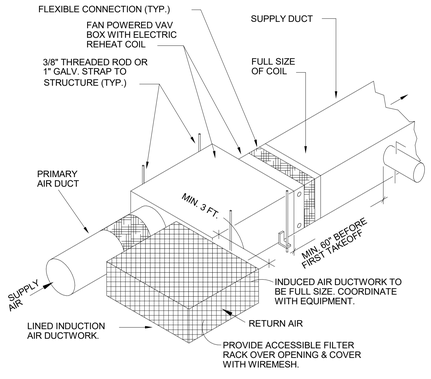
STYLE "B" INTERLOCKING BLADE FIRE DAMPER
NO SCALE



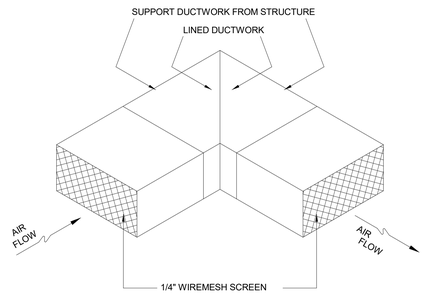
SHEET METAL DUCT DETAILS
NO SCALE



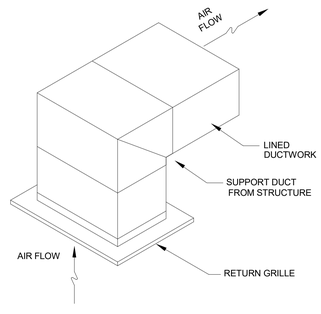
BRANCH DUCT CONNECTION
NO SCALE



FPB BOX DETAIL (SERIES)
NO SCALE



TRANSFER AIR DUCT DETAIL
NO SCALE



RETURN AIR GRILLE DETAIL
NO SCALE

Perkins&Will
The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

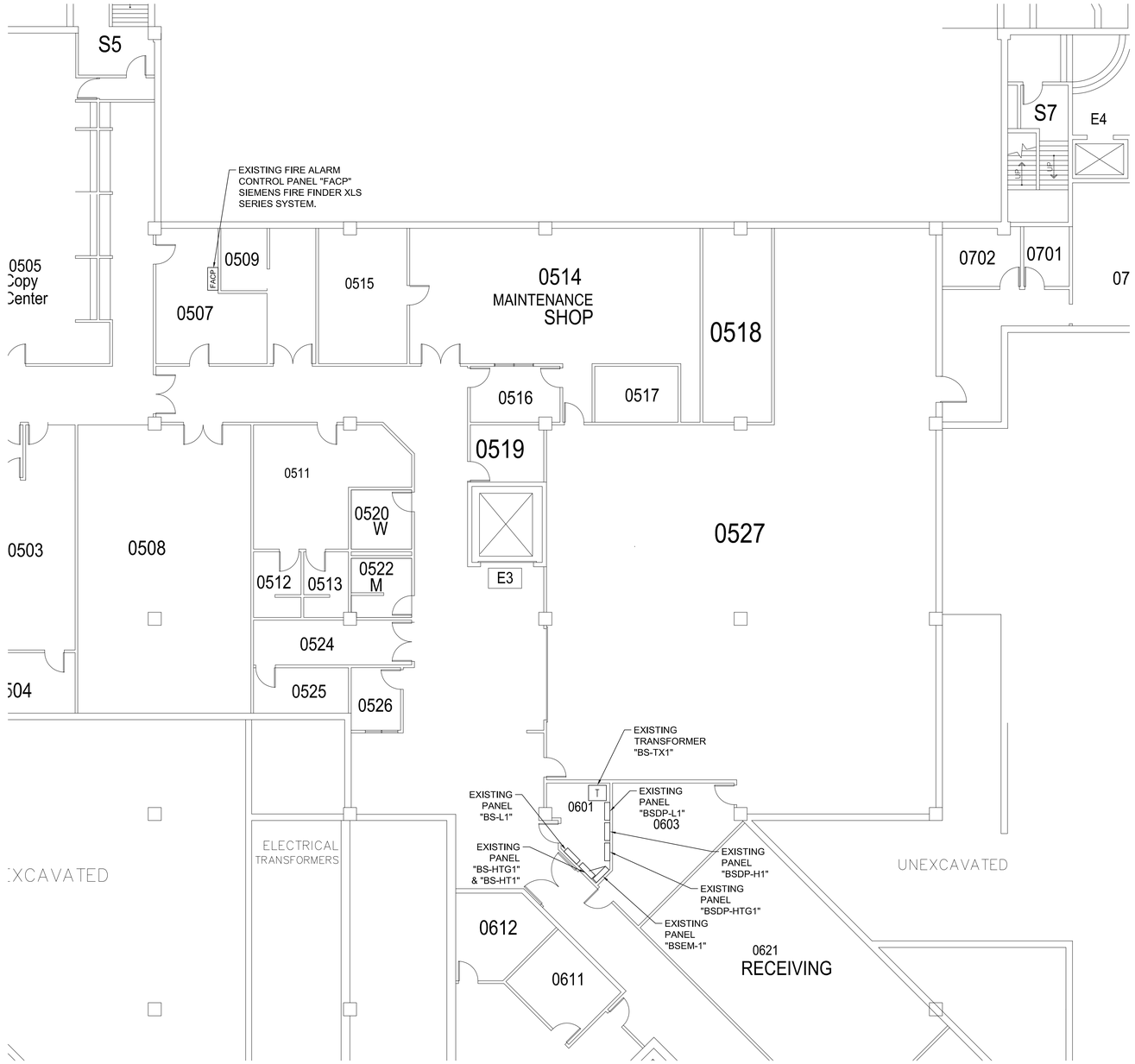
TITLE

MECHANICAL EQUIPMENT SCHEDULES & DETAILS

SHEET NUMBER

M20-00

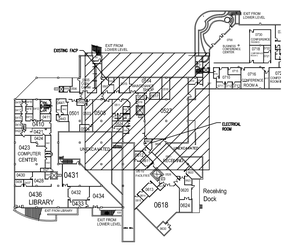
ISSUED FOR BID 13SEPT23



N

1 PARTIAL BASEMENT POWER AND SYSTEMS PLAN

1/8" = 1'-0"



N

2 BASEMENT KEY PLAN

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

Mechanical Services Associates Corp.
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

Oakton College

ISSUE FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUE FOR BID	13SEPT23

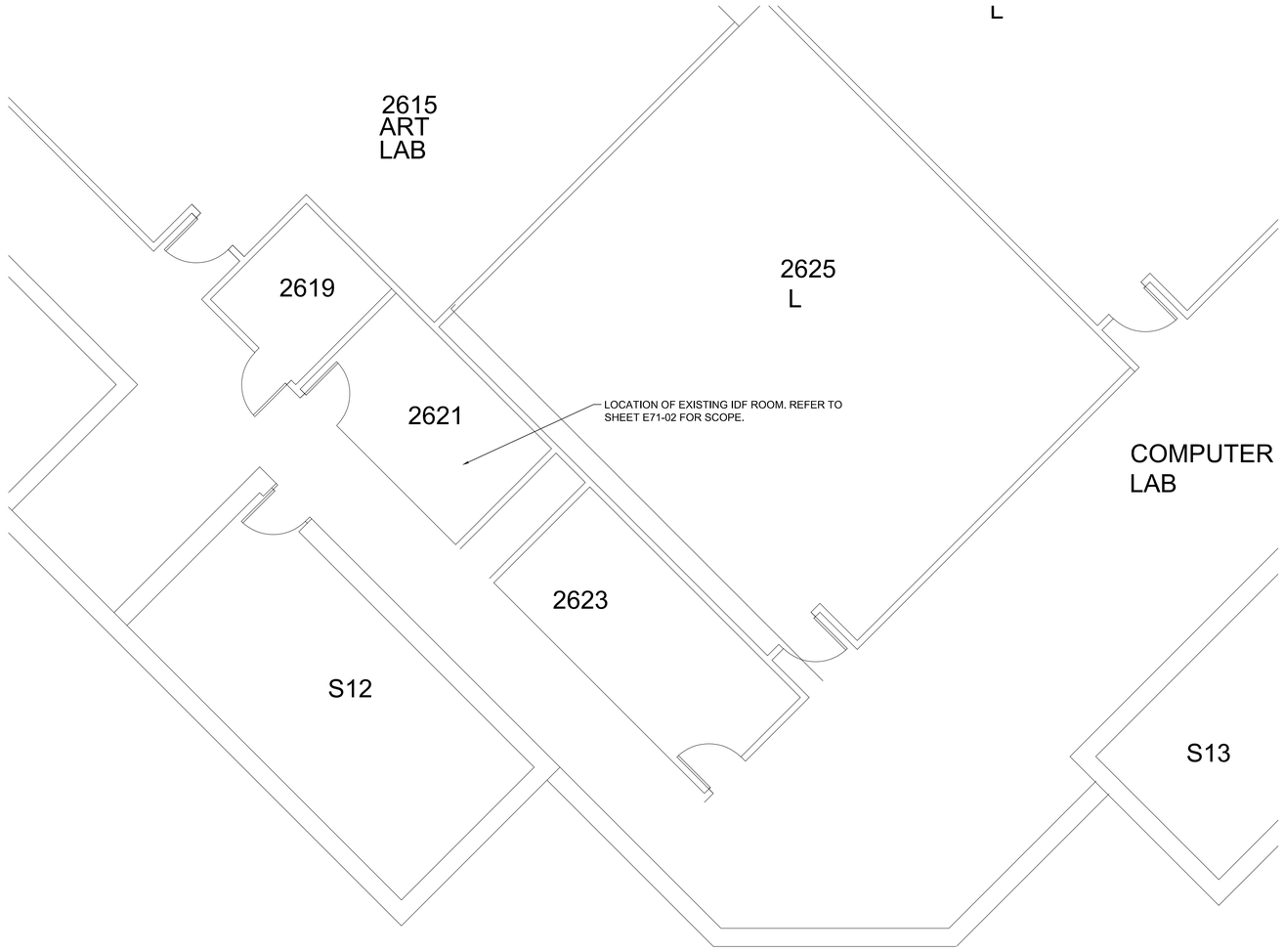
Job Number 021047.000

TITLE

PARTIAL BASEMENT POWER AND SYSTEMS PLAN

SHEET NUMBER

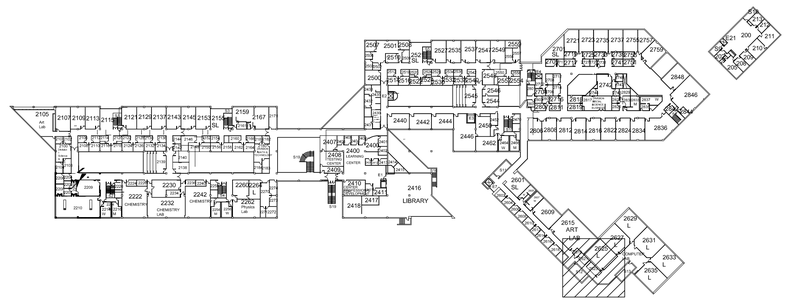
E01-01



N

1 PARTIAL 2ND FLOOR POWER AND SYSTEMS PLAN

1/4" = 1'-0"



N

2 2ND FLOOR KEY PLAN

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

Mechanical Services Associates Corp.
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

Oakton College

ISSUE FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

1	ISSUE FOR BID	13SEPT23
MARK	ISSUE	DATE

Job Number 021047.000

TITLE

PARTIAL SECOND FLOOR POWER AND SYSTEMS PLAN

SHEET NUMBER

E01-02

1 PARTIAL LEVEL 01 ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

(X) ELECTRICAL DEMOLITION PLAN NOTES:

1. DISCONNECT, REMOVE, AND SALVAGE EXISTING LIGHT FIXTURE. DISCONNECT AND REMOVE EXISTING CONTROLS ASSOCIATED WITH FIXTURE. EXISTING BRANCH CIRCUIT CONDUIT AND WIRES SHALL REMAIN TO BE REUSED. TURN OVER FIXTURE TO OWNER AT THEIR DISCRETION; OTHERWISE DISPOSE OF PER EPA REQUIREMENTS.
2. DISCONNECT, REMOVE, AND SALVAGE EXISTING LIGHT FIXTURE. DISCONNECT AND REMOVE EXISTING NIGHT LIGHT CONDUIT AND WIRES TO NEAREST FIXTURE OUT OF AREA IN SCOPE TO KEEP THE CIRCUIT ENERGIZED. TURN OVER FIXTURE TO OWNER AT THEIR DISCRETION; OTHERWISE DISPOSE OF PER EPA REQUIREMENTS.
3. DISCONNECT AND REMOVE EXISTING EXIT SIGN. DISCONNECT AND REMOVE EXISTING CONDUITS AND WIRES BACK TO NEAREST ENERGIZED EXIT SIGN TO MAINTAIN EXISTING BRANCH CIRCUIT. DISPOSE OF EXIT SIGN PER EPA REQUIREMENTS.
4. DISCONNECT AND REMOVE EXISTING FIRE ALARM NOTIFICATION DEVICE. DISCONNECT AND REMOVE EXISTING FIRE ALARM CABLE AND CONDUIT BACK TO NEAREST DEVICE TO MAINTAIN FIRE ALARM CIRCUIT. TURN OVER DEVICE TO OWNER.
5. DISCONNECT AND REMOVE EXISTING COVE LIGHT FIXTURE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES COMPLETELY BACK TO NEAREST LIGHT FIXTURE IN CIRCUIT TO MAINTAIN EXISTING LIGHTING BRANCH CIRCUIT. TURN OVER FIXTURE TO OWNER AT THEIR DISCRETION; OTHERWISE DISPOSE OF PER EPA REQUIREMENTS.
6. DISCONNECT AND REMOVE EXISTING PULL STATION. DISCONNECT AND REMOVE EXISTING FIRE ALARM CABLE AND CONDUIT BACK TO NEAREST DEVICE IN CIRCUIT TO MAINTAIN EXISTING FIRE ALARM CIRCUIT.
7. DISCONNECT AND REMOVE EXISTING NORMAL BRANCH CIRCUIT FROM EXISTING TO REMAIN LIGHT FIXTURE.
8. DISCONNECT AND REMOVE EXISTING POWER FROM RADIANT CEILING PANEL. EXISTING BRANCH CIRCUIT SHALL REMAIN. BYPASS CONDUIT AND WIRES AS REQUIRED TO KEEP REMAINING PANELS OPERATIONAL.
9. DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING FAN POWER BOX. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, CONDUIT, AND WIRES.
10. DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING ELECTRIC WALL HEATER. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES.
11. DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING GARBAGE DISPOSAL. DISCONNECT AND REMOVE EXSITING CONDUIT AND WIRES.
12. DISCONNECT AND REMOVE EXISTING BACKBOX AND CONDUIT FOR DEMOLISHED SPEAKER. WIRING SHALL BE REMOVED BY LOW VOLTAGE CONTRACTOR.
13. WIRELESS ACCESS POINT "WAP" TO BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE RELATED DATA JACKS AND CABLES BACK TO DATA RACK SERVING COMPLETE. WIRELESS ACCESS POINT DEVICE, DEVICE MOUNTING BRACKET AND RELATED PATCH CORDS TO BE TURNED OVER TO THE OWNER.
14. OBSERVATION ROOM AUDIO SYSTEM TO BE DISCONNECTED AND REMOVED COMPLETE. DISCONNECT AND REMOVE ALL RELATED EQUIPMENT INCLUDING BUT NOT LIMITED TO MICROPHONES, SPEAKERS, AUDIO JACKS, VOLUME CONTROLS, RACEWAY AND WIRING. TURN OVER TO THE OWNER AT THEIR DISCRETION, OTHERWISE DISPOSE OF PER EPA REQUIREMENTS.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL
60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 ELECTRICAL DEMOLITION PLAN

SHEET NUMBER

E04-01

9/8/2023 9:03:07 AM Autodesk Docs://Oakton Community College/OCC Partnership Hall Remodeling-MEPFP-2022-CENTRAL.rvt

1 PARTIAL LEVEL 01 POWER AND SYSTEMS NEW WORK PLAN

1/8" = 1'-0"

X ELECTRICAL PLAN NOTES:

1. FURNISH AND INSTALL NEW FLEXIBLE LIQUIDTIGHT CONDUIT AND WIRE TO JUNCTION BOX IN WALL FOR WORKSTATIONS. PROVIDE CONNECTION TO MODULAR FURNITURE. CONDUIT SHALL BE A MINIMUM SIZE 1 1/4". VERIFY POINTS OF CONNECTION WITH MANUFACTURER. PROVIDE ALL REQUIRED HARDWARE. COORDINATE WORK WITH FURNITURE MANUFACTURER.
2. FURNISH AND INSTALL LEGRAND EVOLUTION SERIES EFB4SS-OG FLOORBOX WITH MOUNTING BRACKET EFB8-MB AND DECORA STYLE PLATES FOR EACH COMPONENT (DATA, POWER, HDMI AND BLANK). VERIFY FLOORBOX LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. SAW CUT FLOOR AND COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. BOX TO INCLUDE A MINIMUM OF (1) DUPLEX RECEPTACLE, (2) DATA JACKS AND CABLES. RADAR SCAN FLOOR FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, SAW CUT AND REMOVE FLOOR AS REQUIRED FOR INSTALLATION OF NEW FLOORBOX AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. UNDERGROUND CONDUIT CAN BE PVC WITH PROPER FITTINGS. SET BOX LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT. ONCE INSTALLED, BACKFILL, COMPACT, INSTALL VISQUEEN VAPOR BARRIER MATERIAL AND PATCH LEVEL WITH CONCRETE. GRIND FLOOR SMOOTH WITH ADJACENT SURFACES FOR FINAL FLOORING MATERIAL TO BE INSTALLED. REMOVE ALL SPOILS AND DEBRIS FROM SITE. REFER TO SHEET E71.02 FOR LOW VOLTAGE CONDUIT SIZES AND REQUIREMENTS FOR NEW FLOORBOX.
3. FURNISH AND INSTALL NEW PANELBOARD IN LOCATION AS SHOWN. REFER TO RISER DIAGRAM FOR COMPLETE ELECTRICAL INFORMATION.
4. FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS SHOWN IN THE PANEL SCHEDULE.
5. NOT USED.
6. FURNISH AND INSTALL LEGRAND OMNIBOX #880CS2-NA SERIES FLOORBOX. VERIFY FLOORBOX LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. SAW CUT FLOOR AND COORDINATE WITH TECHNOLOGY CONTRACTORY AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. BOX TO INCLUDE A MINIMUM OF (2) DUPLEX RECEPTACLES AND (4) DATA JACKS AND CABLES. RADAR SCAN FLOOR FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, SAW CUT AND REMOVE FLOOR AS REQUIRED FOR INSTALLATION OF NEW FLOORBOX AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. UNDERGROUND CONDUIT CAN BE PVC WITH PROPER FITTINGS. SET BOX LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT. ONCE INSTALLED, BACKFILL, COMPACT, INSTALL VISQUEEN VAPOR BARRIER MATERIAL AND PATCH LEVEL WITH CONCRETE. GRIND FLOOR SMOOTH WITH ADJACENT SURFACES FOR FINAL FLOORING MATERIAL TO BE INSTALLED. REMOVE ALL SPOILS AND DEBRIS FROM SITE. REFER TO SHEET E1.02 FOR LOW VOLTAGE CONDUIT SIZES AND REQUIREMENTS FOR NEW FLOORBOX.
7. FURNISH AND INSTALL WIRELESS CLOCK. REFER TO SPECIFICATION SECTION 275313 FOR ADDITIONAL INFORMATION.
8. FURNISH AND INSTALL SPEAKER AND CONNECT TO EXSITING PAGING SYSTEM. INCLUDE VOLUME CONTROL SWITCH WHERE INDICATED ON DRAWINGS. REFER TO SPECIFICATION SECTION 275116 FOR ADDITIONAL INFORMATION.
9. FURNISH AND INSTALL DUPLEX RECEPTACLE, "C1" DATA JACK AND EXTRON WPD 110-A HDMI DEVICE IN CHIEF PAC526FBP4 IN-WALL BOX BEHIND MONITOR. CONNECT TO FLOOR BOX FOR ACCESSING POWER CIRCUIT, DATA AND AV CONDUIT SYSTEM AND ASSOCIATED DEVICES. COORDINATE WALL BOX LOCATION WITH OWNER PROVIDED DISPLAY AND MOUNT INSTALLATION LOCATION.
10. NEW WIRELESS ACCESS POINT "WAP". COORDINATE EXACT MOUNTING LOCATION IN THE FIELD WITH THE OWNER PRIOR TO INSTALLATION OF DEVICE AND JACK ABOVE THE CEILING SO AS TO PROVIDE PROPER COVERAGE OF SPACE. OWNER TO PROVIDE WIRELESS ACCESS POINT, DEVICE MOUNTING BRACKET AND PATCH CORD TO THE CONTRACTOR FOR INSTALLATION. DEVICE TO BE MOUNTED ON ACCESSIBLE CEILING AND NOT ON THE WOOD SLAT CEILING. REFER TO DEVICE MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
11. EXISTING WIRELESS ACCESS POINT "WAP", DEVICE MOUNTING BRACKET AND PATCH CORD (PREVIOUSLY REMOVED UNDER DEMOLITION) TO BE INSTALLED AT NEW LOCATION. COORDINATE EXACT MOUNTING LOCATION IN THE FIELD WITH THE OWNER PRIOR TO INSTALLATION OF DEVICE AND JACK ABOVE THE CEILING SO AS TO PROVIDE PROPER COVERAGE OF SPACE. REFER TO DEVICE MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
12. ROUTE CONDUITS TO WALL AS SHOWN. FURNISH AND INSTALL JUNCTION BOXES WITH COVERPLATES AS REQUIRED. COORDINATE FINISH OF COVERPLATES WITH ARCHITECT. REFER TO SHEET E71-02 FOR CONDUIT SIZES AND REQUIREMENTS FOR NEW FLOORBOX.
13. FURNISH AND INSTALL NEW LEGRAND WIREMOLD #885 SERIES FLOORBOX. VERIFY FLOORBOX LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. SAW CUT FLOOR AND COORDINATE WITH TECHNOLOGY CONTRACTORY AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. BOX TO INCLUDE A MINIMUM OF (1) DUPLEX RECEPTACLE. RADAR SCAN FLOOR FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, SAW CUT AND REMOVE FLOOR AS REQUIRED FOR INSTALLATION OF NEW FLOORBOX AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. UNDERGROUND CONDUIT CAN BE PVC WITH PROPER FITTINGS. SET BOX LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT. ONCE INSTALLED, BACKFILL, COMPACT, INSTALL VISQUEEN VAPOR BARRIER MATERIAL AND PATCH LEVEL WITH CONCRETE. GRIND FLOOR SMOOTH WITH ADJACENT SURFACES FOR FINAL FLOORING MATERIAL TO BE INSTALLED. REMOVE ALL SPOILS AND DEBRIS FROM SITE. REFER TO SHEET E1.02 FOR LOW VOLTAGE CONDUIT SIZES AND REQUIREMENTS FOR NEW FLOORBOX. ROUTE CONDUITS TO WALL AS SHOWN. FURNISH AND INSTALL JUNCTION BOXES WITH COVERPLATES AS REQUIRED. COORDINATE FINISH OF COVERPLATES WITH ARCHITECT.
14. ROUTE CONDUITS TO WALL AS SHOWN. FURNISH AND INSTALL JUNCTION BOXES WITH COVERPLATES AS REQUIRED. COORDINATE FINISH OF COVERPLATES WITH ARCHITECT.
15. FURNISH AND INSTALL JUNCTION BOX AND FLEXIBLE LIQUIDTIGHT CONDUIT TO ROUTE DATA CABLE AT POWERED CUBICLE LOCATIONS (4), IF DATA JACKS CAN BE RECESSED MOUNTED IN PARTITION WALL, FURNISH AND INSTALL HUBBELL #SF3 SERIES MOUNTING FRAME WITH FACEPLATE AND WITH (2) CAT-6A DATA JACKS INSTALLED. PROVIDE HUBBELL #SB4 SERIES SURFACE MOUNTED BACK BOX IF MOUNTING FRAME WILL NOT FIT FLUSH MOUNTED INTO FURNITURE PARTITION WALL. INSTALL MOUNTING FRAME IN MOUNTING BRACKET IN FURNITURE WALL. ROUTE CABLING INSIDE OF FURNITURE WALL. CONTRACTOR SHALL COORDINATE ALL CONNECTIONS REQUIRED WITH THE OWNER/ARCHITECT AND FINAL FURNITURE SELECTIONS/MANUFACTURER. INCLUDE ADDITIONAL CABLE LENGTH, COILED ABOVE CEILING, OF 30' EACH FOR FUTURE RELOCATION. CONDUIT SHALL BE A MINIMUM SIZE 1 1/4".

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 POWER AND SYSTEMS PLAN

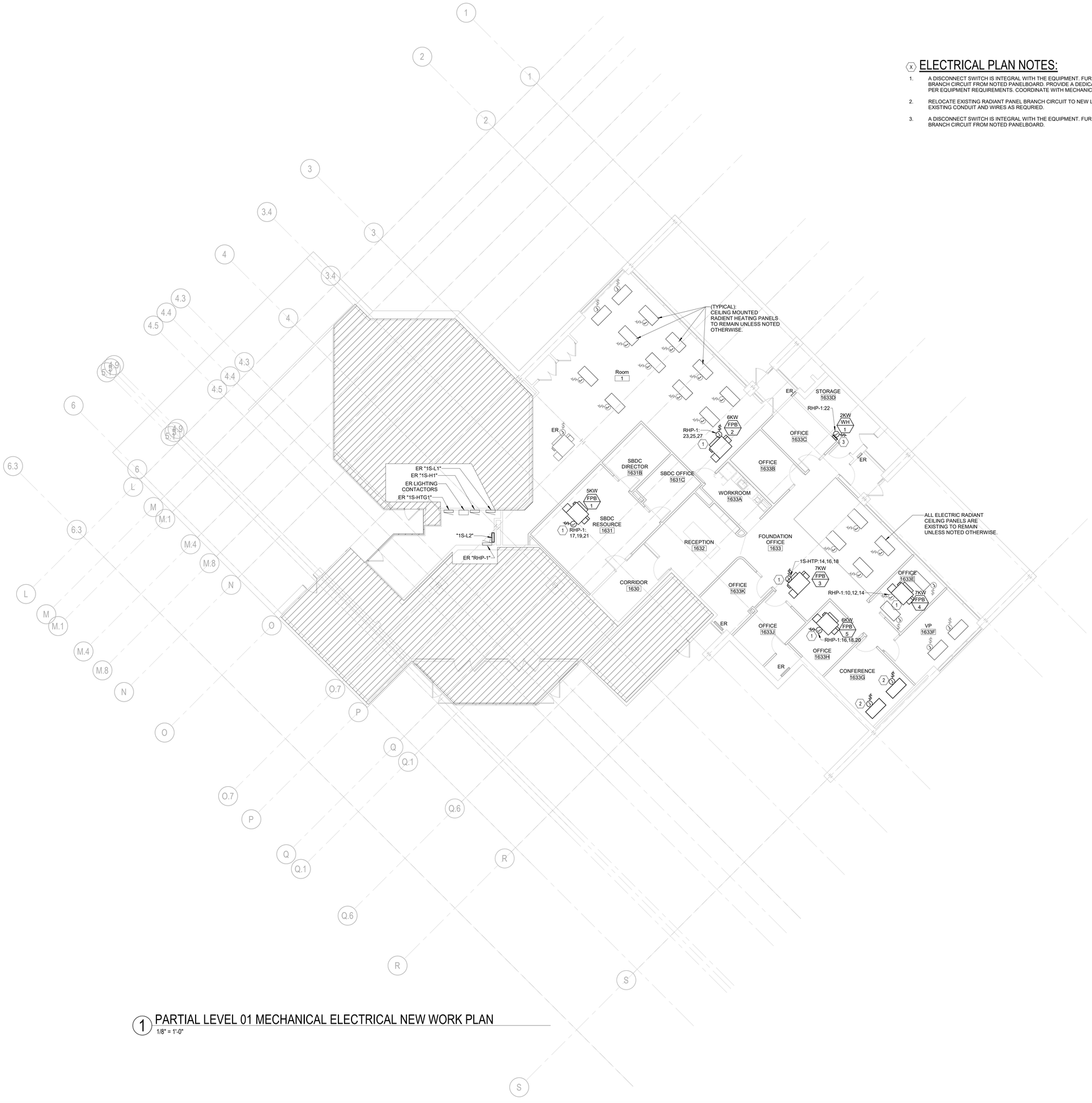
SHEET NUMBER

E11-01A

9/8/2023 9:05:19 AM Autodesk Docs://Oakton Community College/OCC Partnership Hall Remodeling-MEPFP-2022-CENTRAL.rvt

ELECTRICAL PLAN NOTES:

1. A DISCONNECT SWITCH IS INTEGRAL WITH THE EQUIPMENT. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM NOTED PANELBOARD. PROVIDE A DEDICATED NEUTRAL AS REQUIRED PER EQUIPMENT REQUIREMENTS. COORDINATE WITH MECHANICAL CONTRACTOR.
2. RELOCATE EXISTING RADIANT PANEL BRANCH CIRCUIT TO NEW LOCATION AS SHOWN. EXTEND EXISTING CONDUIT AND WIRES AS REQURIED.
3. A DISCONNECT SWITCH IS INTEGRAL WITH THE EQUIPMENT. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM NOTED PANELBOARD.



1 PARTIAL LEVEL 01 MECHANICAL ELECTRICAL NEW WORK PLAN
1/8" = 1'-0"

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 MECHANICAL ELECTRICAL NEW WORK PLAN

SHEET NUMBER

E11-02A

9/8/2023 9:05:20 AM Autodesk Docs://Oakton Community College/OCC Partnership Hall Remodeling-MEPFP-2022-CENTRAL.rvt

GENERAL ELECTRICAL NOTES

A. ALL NORMAL LIGHTING SHALL BE CIRCUITED FROM PANEL "1S-H1" UNLESS NOTED OTHERWISE. ONLY BRANCH CIRCUIT NUMBERS ARE SHOWN.

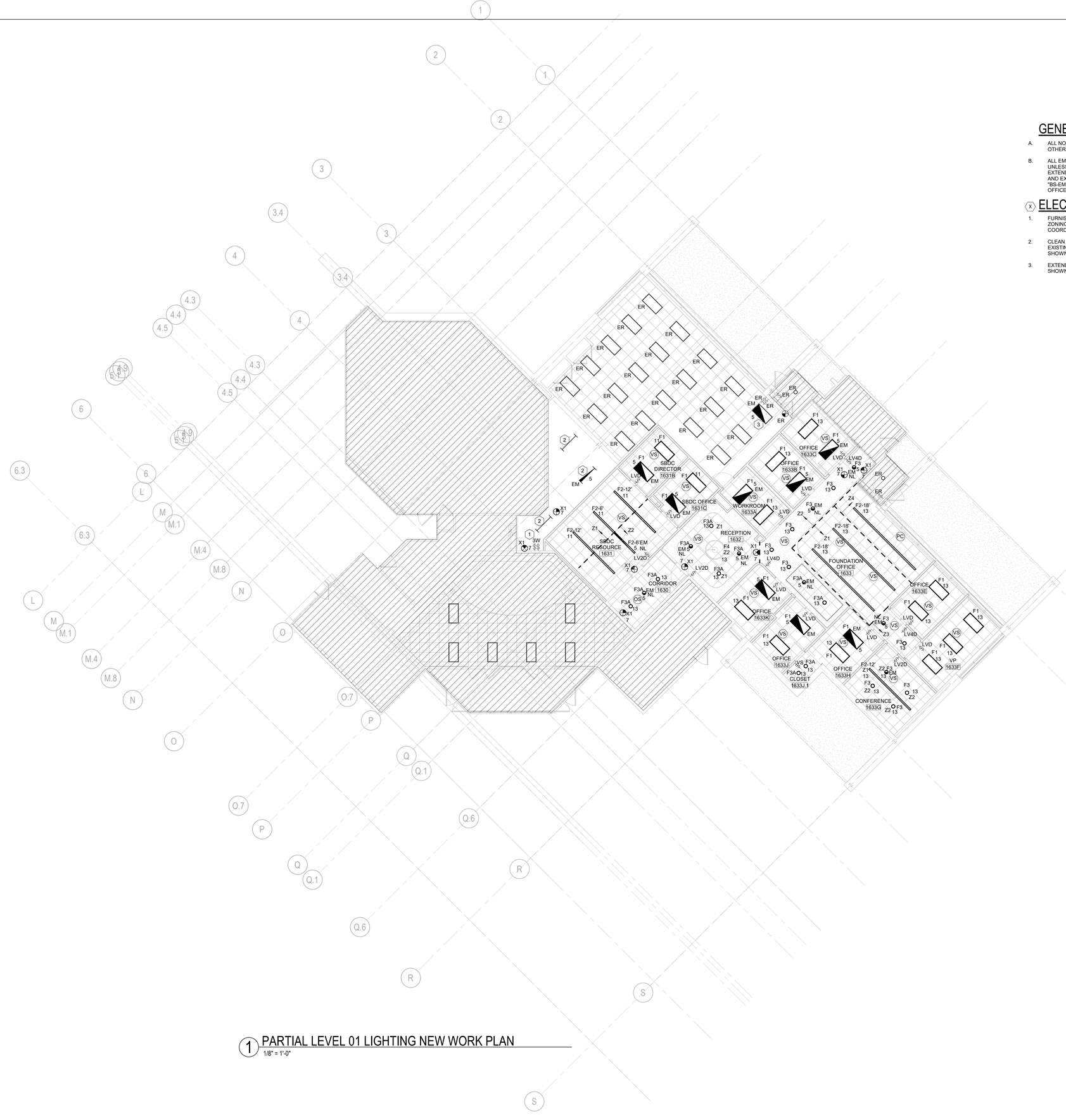
B. ALL EMERGENCY AND EXIT SIGNS SHALL BE CIRCUITED FROM PANEL "BS-EM1" UNLESS NOTED OTHERWISE. ONLY BRANCH CIRCUIT NUMBERS ARE SHOWN. EXTEND EXISTING EMERGENCY LIGHTING CIRCUITS TO NEW EM/LIGHT LIGHTS AND EXIT SIGNS. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. PANEL "BS-EM1" IS LOCATED IN BASEMENT ELECTRICAL CLOSET NEAR MAIN UTILITIES OFFICE.

(X) ELECTRICAL PLAN NOTES:

1. FURNISH AND INSTALL NEW MANUAL TOGGLE SWITCHES FOR EXISTING TO REMAIN SPACE. ZONING SHALL MATCH ORIGINAL LAYOUT. EXTEND EXISTING CONTROLS TO NEW FIXTURES. COORDINATE IN FIELD.

2. CLEAN AND REINSTALL EXISTING STRIP FIXTURE. PROVIDE NEW LAMP UPON INSTALLATION OF EXISTING FIXTURE. EXTEND EXISTING NORMAL AND EMERGENCY BRANCH CIRCUITS AS SHOWN. EM FIXTURES SHALL BE ON 100% OF THE TIME.

3. EXTEND EXISTING EMERGENCY BRANCH CIRCUIT TO EXISTING TO REMAIN LIGHT FIXTURE AS SHOWN FOR EMERGENCY NIGHT LIGHT. FIXTURE SHALL REMAIN ON 100% OF THE TIME.



1 PARTIAL LEVEL 01 LIGHTING NEW WORK PLAN
1/8" = 1'-0"

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

PARTIAL LEVEL 01 LIGHTING PLAN

SHEET NUMBER

E21-01A

ELECTRICAL PANEL LOAD SCHEDULE

PANEL #: **RHP-1 (EX)** VOLTAGE / PHASE: **277/480V 3 PHASE 4 WIRE**

BUSSING: **125A**

LOCATION: **IDF CLOSET** MAIN BREAKER: -

MAIN LUG ONLY: **YES**

PROJECT: **OCC PARTNERSHIP HALL** A.I.C.: **EXISTING**

PROJ. # **2262** MOUNTING: **SURFACE**

CCT	POLE	TRIP	AREA SERVED	LOAD A	LOAD B	LOAD C	AREA SERVED	POLE	TRIP	CCT
1	1	20	RADIANT HEAT PANEL (EX)	3000			SPARE	2	20	2
3	1	20	RADIANT HEAT PANEL (EX)		3000					4
5	1	20	RADIANT HEAT PANEL (EX)			3000	SPARE	2	20	6
7	1	20	RADIANT HEAT PANEL (EX)	3000						8
9	1	20	RADIANT HEAT PANEL (EX)		3000		FPB-4 (NOTE 1)	3	15	10
11	1	20	RADIANT HEAT PANEL (EX)		2333.3					12
13	1	20	RADIANT HEAT PANEL (EX)	3000		3000				14
15	1	20	RADIANT HEAT PANEL (EX)	2333.3		2333.3				16
17	3	15	FPB-1 (NOTE 1)		3000		FPB-5 (NOTE 1)	3	15	18
19					2000					20
21				1666.6		1666.6	WH-1 (NOTE 1)	1	15	22
23				2000		2000	SPACE	1		24
25			FPB-2 (NOTE 1)				SPACE	1		26
27				2000			SPACE	1		28
29	1	20	SPARE		2000		SPARE	1	20	30

TOTAL (VA) "A" PHASE: 16999.9 200% NEUTRAL:

TOTAL (VA) "B" PHASE: 18999.9

TOTAL (VA) "C" PHASE: 13999.9 ISOLATED GROUND BUS:

TOTAL (VA) THIS PANEL: **49999.7VA** FEED THRU LUGS:

TOTAL AMPS THIS PANEL: **60A**

ELECTRICAL PANEL LOAD SCHEDULE

PANEL #: **1S-HTP (EX)** VOLTAGE / PHASE: **277/480V 3 PHASE 4 WIRE**

BUSSING: **225A**

LOCATION: **IDF CLOSET** MAIN BREAKER: -

MAIN LUG ONLY: **YES**

PROJECT: **OCC PARTNERSHIP HALL** A.I.C.: **EXISTING**

PROJ. # **2262** MOUNTING: **SURFACE**

CCT	POLE	TRIP	AREA SERVED	LOAD A	LOAD B	LOAD C	AREA SERVED	POLE	TRIP	CCT
1	3	60	EXISTING LOAD (EX)	11072						
				3000			CHILD CARE EXIT 33 (EX)	1	20	2
3					11072					
					3000		CHILD CARE EXIT 35 (EX)	1	20	4
5						11072				
						1000	1633G,1633F BB	1	20	6
7	1	20	1610 BB (EX)	1000			FPB 102 (EX)	3	20	
				1666.67						8
9	1	20	STARWELL S011 (EX)		1000					
					1666.7					10
11	1	20	1640 CHILD CARE (EX)			1000				
						1666.7				12
13	1	20	EBB 106 WASHROOM (EX)	1000			FPB-3 (NOTE 1)	3	15	
				2333.3						14
15	1	20	EBB WOMEN'S ROOM (EX)		1000					
					2333.3					16
17	1	20	1610 (EX)			1000				
						2333.3				18
19	3	20	RPB-107 MULTIPURPOSE (EX)	1666.7			EXISTING LOAD	3	20	
				1666.7						20
21					1666.7					
					1666.7					22
23						1666.7				
						1666.7				24
25			RPB-108 MULTIPURPOSE (EX)	1666.7						
				1666.7						26
27					1666.7					
					1666.7					28
29						1666.7				
						1666.7				30
31			RPB-109 MULTIPURPOSE (EX)	1666.7			3-FPB-104 (EX)	3	20	
				1666.7						32
33					1666.7					
					1666.7					34
35						1666.67				
						1666.67				36
37			RPB-110 MULTIPURPOSE (EX)	1666.67						
				1000			UH 47 S-12 EXIT (EX)	1	20	38
39					1666.7					
					1000		EXISTING LOAD	1	20	40
41						1666.67				
						1000	EXISTING LOAD	1	20	42

TOTAL (VA) "A" PHASE: 32738.84 200% NEUTRAL:

TOTAL (VA) "B" PHASE: 32738.9

TOTAL (VA) "C" PHASE: 30738.81 ISOLATED GROUND BUS:

TOTAL (VA) THIS PANEL: **96216.55VA** FEED THRU LUGS:

TOTAL AMPS THIS PANEL: **116A**

ELECTRICAL PANEL LOAD SCHEDULE

PANEL #: **1S-H1 (EX)** VOLTAGE / PHASE: **277/480V 3 PHASE 4 WIRE**

BUSSING: **225A**

LOCATION: **IDF CLOSET** MAIN BREAKER: -

MAIN LUG ONLY: **YES**

PROJECT: **OCC PARTNERSHIP HALL** A.I.C.: **EXISTING**

PROJ. # **2262** MOUNTING: **SURFACE**

CCT	POLE	TRIP	AREA SERVED	LOAD A	LOAD B	LOAD C	AREA SERVED	POLE	TRIP	CCT
1	1	20	LIGHTS CORR. COVE (EX)	-			LIGHTS MULTIPURPOSE RM #1 (EX)	1	20	2
3	1	20	LIGHTS CORR. (EX)		-		LIGHTS MULTIPURPOSE RM #1 (EX)	1	20	4
5	1	20	LIGHTS CLASSRMS 1502 & 1506 (EX)			-	LIGHTS MULTIPURPOSE RM #2 (EX)	1	20	6
7	1	20	LIGHTS CLASSRM 1510	-			LIGHTS MULTIPURPOSE RM #2 (EX)	1	20	8
9	1	20	LIGHTS 1623 TIER CLASS (EX)		-		LIGHTS MULTIPURPOSE RM #3 (EX)	1	20	10
11	1	20	EXISTING STORAGE LIGHTING/NEW OFFICE LIGHTING			556	LIGHTS MULTIPURPOSE RM #3 (EX)	1	20	12
13	1	20	NEW OFFICE LIGHTING	1341			LIGHTS MULTIPURPOSE RM #4 (EX)	1	20	14
15	1	20	LIGHTS STAIR #3 (EX)		-		LIGHTS MULTIPURPOSE RM #4 (EX)	1	20	16
17	1	20	LIGHTS WASHROOMS (EX)			-	LIGHTS LOBBY (EX)	1	20	18
19	1	20	LIGHTS UNDER LINK (EX)	-			LIGHTS OUTSIDE VA (EX)	1	20	20
21	3	20	SPARE			-	LIGHTS STAIR #2 (EX)	1	20	22
23						-	LIGHTS STAIR #1 (EX)	1	20	24
25				-			EXISTING LOAD	1	20	26
27	1	20	SPARE		-		EXISTING LOAD	1	20	28
29	1	20	SPARE			-	EXISTING LOAD	1	20	30
31	1	20	SPARE	-			SPARE	3	20	32
33	1	20	SPARE		-					34
35	1	20	SPARE			-				36
37	3	20	LIFT STATION SOUTH (EX)	-			SPARE	3	35	38
39					-					40
41						-				42

TOTAL (VA) "A" PHASE: 1341 200% NEUTRAL:NO

TOTAL (VA) "B" PHASE: 0

TOTAL (VA) "C" PHASE: 556 ISOLATED GROUND BUS:NO

TOTAL (VA) THIS PANEL: **1897VA** FEED THRU LUGS:YES

TOTAL AMPS THIS PANEL: **2A**

PANEL SCHEDULE NOTES:

1. FURNISH AND INSTALL NEW CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL MATCH EXISTING MAKE, MODEL, AND AIC RATINGS.

LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	LAMPS / LUMINARIES				DRIVER	MOUNTING	DESCRIPTION	REMARKS
			QTY	TYPE	WATTS	VOLTS				
F1	LITHONIA	2BLT4-40L-ADP-GZ10-LP835	PER DWG.	LED	30.5	120/277	0-10 DIMMING	RECESSED	2X4 LED TROFFER	
F2	AXIS LIGHTING	BBRLED-750-500-35-FL-S(L)-CB21225(3)-W-UNV-DP	PER DWG.	LED	9.5W/FT	120/277	0-10 DIMMING	RECESSED	LINEAR RECESSED SLOT FIXTURE	
F3	GOTHAM	EVO8-35-20-AR-MD-LSS-120-GZ10	PER DWG.	LED	31.5	120/277	0-10 DIMMING	RECESSED	8" LED DOWNLIGHT	VERIFY INSTALLATION KIT REQUIRED FOR HARD CEILING PRIOR TO PURCHASE
F3A	GOTHAM	EVO8-35-20-AR-MD-LSS-120-GZ10	PER DWG.	LED	31.5	120/277	0-10 DIMMING	RECESSED	8" LED DOWNLIGHT	GRID CEILING INSTALLATION.
F4	EUREKA	4802-36-LED-3500K-90-277-DV-RDP-AC-RCA-WHE-WHE-WH-3981C	PER DWG.	LED	54	277	0-10 DIMMING	PENDANT	DECORATIVE PENDANT FIXTURE	COORDINATE MOUNTING CABLE LENGTH WITH ARCHITECT
X1	LITHONIA LIGHTING	LRP-W-(1 OR 2 AS REQUIRED)-RW-(DIRECTIONAL INDICATORS AS REQUIRED)-120/277-ELN	PER DWG.	LED	5	120/277	-	WALL OR CEILING	EXIT SIGN (ONE/TWO SIDED AS REQUIRED) WITH BATTERY	FINAL ARROW LOCATION SHALL BE COORDINATED WITH THE DRAWINGS

NOTES:

1 OTHER MANUFACTURERS ARE ALLLOWED UPON ARCHITECT/OWNER'S PRIOR APPROVAL.

2 LIGHT FIXTURES SHALL BE INDEPENDANTLY SUPPORTED TO THE BUILDING STRUCTURE SEPARATE FROM THE CEILING SYSTEM. REFER TO SPECIFICATIONS SECTION 265100 FOR ADDITIONAL INFORMATION.

3 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES.

4 FURNISH AND INSTALL ALL LIGHT FIXTURE MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSLALLATION OF LIGHT FIXTURES (IE. PENDANTS, FLANGE KITS, CANOPIES, TONG HANGERS, SAFETY CHAINS, UNI-STRUT, ETC.)

5 CATALOG NUMBERS MAY NOT REFLECT ALL OF THE REQUIREMENTS INCLUDED IN THE DRAWINGS AND SPECIFICATIONS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.

6 COORDINATE FIXTURE COLOR WITH ARCHITECT.

LIGHT FIXTURE INSTALLATION:

1 SUPPORT FOR LIGHTING FIXTURES IN OR ON GRID-TYPE SUSPENDED CEILINGS:

2 INSTALL A MINIMUM OF FOUR CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH FIXTURE. LOCATE NOT MORE THAN 6 INCHES FROM LIGHTING FIXTURE CORNERS. RODS/WIRE MUST BE INSTALLED FROM STRUCTURE AND SIZED IN ORDER TO SUPPORT EACH FIXTURE INDEPENDENTLY OF GRID. WIRE SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF THE FIXTURE AT A SAFETY FACTOR OF 3 TIMES UNITS WEIGHT. PROVIDE NO MORE THAN 2" OF SLACK IN EACH FIXTURE SUPPORT CABLE AFTER FIXTURES HAVE BEEN INSTALLED WITHIN GRID.

3 SUPPORT CLIPS: FASTEN TO LIGHTING FIXTURES AND TO CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION, PER NEC 410-16-C.

4 FIXTURES OF SIZES LESS THAN CEILING GRID: INSTALL AS INDICATED ON REFLECTED CEILING PLANS OR CENTER IN ACOUSTICAL PANEL, AND SUPPORT FIXTURES INDEPENDENTLY WITH AT LEAST TWO 3/4-INCH METAL CHANNELS SPANNING AND SECURED TO CEILING TEES. INSTALL AT LEAST ONE INDEPENDENT SUPPORT ROD OR WIRE FROM STRUCTURE TO A TAB ON EACH END OF LIGHTING FIXTURE. WIRE OR ROD SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF FIXTURE AT A SAFETY FACTOR OF 3.

5 ALL JUNCTION BOXES USED FOR SUPPORTING LIGHT FIXTURES WILL BE HEAVY DUTY UL LISTED FOR THE APPLICATION. DO NOT SUPPORT FROM CEILING GRID. SUPPORT FROM STRUCTURE AND USE GRID TO STABILIZE UNIT.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E31-01

ELECTRICAL PANEL LOAD SCHEDULE

PANEL #: **1S-L2**
LOCATION: **SEE PLAN**
PROJECT: **PARTNERSHIP HALL REMODELING**
PROJ. # **2262**

VOLTAGE / PHASE: **120/208V 3 PHASE 4 WIRE**
BUSSING: **100A**
MAIN BREAKER:
MAIN LUG ONLY: **100A**
A.I.C. : **10,000**
MOUNTING: **SURFACE**

CCT	POLE	TRIP	AREA SERVED	LOAD A	LOAD B	LOAD C	AREA SERVED	POLE	TRIP	CCT
1	1	20	OFFICE RECEPTACLES	720						
				1000			MODULAR WORKSTATIONS	1	20	2
3	1	20	OFFICE RECEPTACLES		720					
					1000		MODULAR WORKSTATIONS	1	20	4
5	1	20	OFFICE RECEPTACLES			720				
						900	CONVENIENCE RECEPTACLES	1	20	6
7	1	20	MICROWAVE	1500						
				1080			CONVENIENCE RECEPTACLES	1	20	8
9	1	20	OFFICE RECEPTACLES		720					
					720		OFFICE RECEPTACLES	1	20	10
11	1	20	CONFERENCE RECEPTACLES			720				
						720	OFFICE RECEPTACLES	1	20	12
13	1	20	RECEPTIONIST RECEPTACLE	500						
				500			RECEPTIONIST RECEPTACLE	1	20	14
15	1	20	WORKROOM RECEPTACLE		540					
					720		RECEPTIONIST RECEPTACLES	1	20	16
17	1	20	COMPUTER RECEPTACLE			500				
						360	SBDC FLOORBOX	1	20	18
19	1	20	SBDC FLOORBOX	360						
				1000			MODULAR WORKSTATIONS	1	20	20
21	1	20	CONVENIENCE RECEPTACLES		540					
					1000		MODULAR WORKSTATIONS	1	20	22
23	1	20	SPARE							
							SPARE	1	20	24
25	1	20	SPARE							
							SPARE	1	20	26
27	1	20	SPARE							
							SPARE	1	20	28
29	1	20	SPARE							
							SPARE	1	20	30
31	1	20	SPARE							
							SPARE	1	20	32
33	1	20	SPARE							
							SPARE	1	20	34
35	1	20	SPARE							
							SPARE	1	20	36
37	1	20	SPARE							
							SPARE	1	20	38
39	1	20	SPARE							
							SPARE	1	20	40
41	1	30	SPARE							
							SPARE	1	20	42

TOTAL (VA) "A" PHASE: 6660
TOTAL (VA) "B" PHASE: 5960
TOTAL (VA) "C" PHASE: 3920
TOTAL (VA) THIS PANEL: **16540VA**
TOTAL AMPS THIS PANEL: **46A**

200% NEUTRAL:
ISOLATED GROUND BUS:
FEED THRU LUGS:

ELECTRICAL PANEL LOAD SCHEDULE

PANEL #: **1S-L1 (EXISTING)**
LOCATION: **SEE PLAN**
PROJECT: **PARTNERSHIP HALL REMODELING**
PROJ. # **2262**

VOLTAGE / PHASE: **120/208V 3 PHASE 4 WIRE**
BUSSING: **225A**
MAIN BREAKER:
MAIN LUG ONLY: **225A**
A.I.C. : **EXISTING**
MOUNTING: **SURFACE**

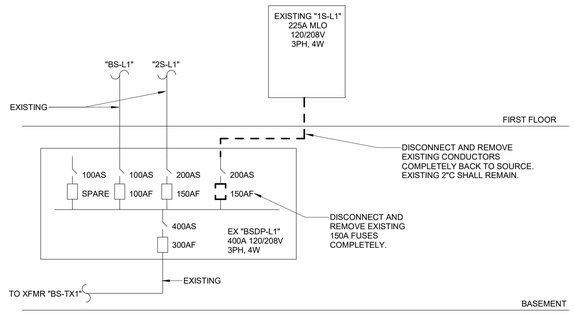
CCT	POLE	TRIP	AREA SERVED	LOAD A	LOAD B	LOAD C	AREA SERVED	POLE	TRIP	CCT
1	1	20	GEN RECP CLASSRM 1502 NW	1260						
				1080			CONVENIENCE RECEPTACLES	1	20	2
3	1	20	GEN RECP CLASS RM 1506 NW		1260					
					360		EX RECS	1	20	4
5	1	20	GEN RECP CLASS RM 1510 NW			1260				
						360	GEN RECP STORAGE & WP OUTSIDE	1	20	6
7	1	20	GEN RECP MULTIPURPOSE S WALL	1080						
				720			COMPUTERS	1	20	8
9	1	20	GEN RECP MULTIPURPOSE N WALL		1080					
					720		WORKSTATIONS	1	20	10
11	1	20	EWC N. END CORRIDOR			500				
						1080	CONVENIENCE RECEPTACLES	1	20	12
13	1	20	FI RECP WASHROOMS N.	900						
				360			SBDC MEETING ROOM	1	20	14
15	1	20	EWC S. END CORRIDOR		500					
					1260		CONVENIENCE RECEPTACLES	1	20	16
17	1	20	GEN RECP CORR, COAT RM, LOBBY			1080				
						1000	COPIER	1	20	18
19	1	20	GEN RECP STOR, ELEC. RM, DIRECT. OFFICE	1440						
				500			REFRIGERATOR	1	20	20
21	1	20	GEN RECP SOCRATIC PIT		900					
					500		COUNTERTOP REC	1	20	22
23	1	20	GEN RECP SOCRATIC PIT AND WLAL			900				
						720	QUAD RECEPTACLES	1	20	24
25	1	20	SOCRATIC PIT PROJECTOR AND SCREEN	500						
				500			DRY SYSTEM COMP	1	20	26
27	1	20	LOBBY TV MONITOR		500					
					500		LIGHTING CONTACTORS	1	20	28
29	1	20	TRACK LIGHTS ALCOVE DIM. CONTROL			500				
						500	RADIANT HEAT CONTROL PANEL	1	20	30
31	1	20	TRACK LIGHTS LOBBY DIM. CONTROL	500						
				500			EXISTING LOAD	1	20	32
33	1	20	SCREEN MULTIPURPOSE 1 & 2 WEST		500					
					4240					34
35	1	20	SCREEN MULTIPURPOSE 3 SOUTH			500	1S-L2 (NOTE 1)	3	100	
						3740				36
37	1	20	SCREEN MULTIPURPOSE 4 SOUTH	500						
				5120						38
39	1	20	TEMP CONTROL PANEL		100					
					500		RECEPTIONIST FLOORBOX	1	20	40
41	1	30	RECP FACE RISERS SOC PIT			500				
						720	CONFERENCE ROOM	1	20	42

TOTAL (VA) "A" PHASE: 14960
TOTAL (VA) "B" PHASE: 12920
TOTAL (VA) "C" PHASE: 13360
TOTAL (VA) THIS PANEL: **41240VA**
TOTAL AMPS THIS PANEL: **115A**

200% NEUTRAL:
ISOLATED GROUND BUS:
FEED THRU LUGS:

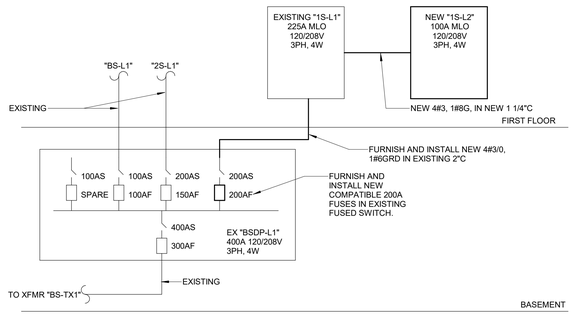
PANEL SCHEDULE NOTES:

1. FURNISH AND INSTALL NEW CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL MATCH EXISTING MAKE, MODEL, AND AIC RATINGS.



1 PARTIAL DEMO RISER DIAGRAM

1" = 1'-0"



2 PARTIAL NEW WORK RISER DIAGRAM

NOT TO SCALE

Partnership Hall Renovation - Load Calculation (1S-L1)

LOAD TYPE	CONNECTED LOAD (VA)	DEMAND	VA
EXISTING LOADS PER AS-BUILTS	18980.0	125%	23725
RECEPTACLES (1ST 10000VA)	10000	100%	10000
RECEPTACLES (REMAINDER)	11480	50%	5740
APPLIANCES	3000	70%	2100
TOTAL DEMAND LOAD		VOLTAGE/PHASE	AMP
	41565	208V/3PH	115.46
	NEW FUSE IN "BSDP-L1"		200

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E31-02

LIGHTING CONTROL SEQUENCE OF OPERATION

ROOMS DESCRIPTION	LIGHTING CONTROL
SMALL OFFICE	VACANCY SENSOR CONTROLLED AND DIMMABLE LUMINARIES MANUAL SWITCH ON, AUTO OFF WHEN UNOCCUPIED. MANUAL DIMMING CONTROL VIA DIMMING SWITCH.
WORKROOM	VACANCY SENSOR CONTROLLED MANUAL SWITCH ON, AUTO OFF WHEN UNOCCUPIED.
FOUNDATION OFFICE/SBDC OFFICE	VACANCY SENSOR CONTROLLED DIMMABLE LUMINARIES MANUAL ON, ZONED DIMMING, AUTO OFF WHEN UNOCCUPIED. GENERAL: ALL LUMINARIES OPERABLE AT FULL OUTPUT TRIMMED TO MAINTAIN A MINIMUM ILLUMINATION LEVEL OF 50FC. ALL NORMAL LUMINAIRES OFF WHEN UNOCCUPIED. ALL NIGHT LIGHTS DIMMED DOWN TO 50%. DAY LIGHTING: AUTOMATIC DIMMING CONTROL WILL BE IN EFFECT FOR DAYLIGHT ZONES WHERE THE OPPORTUNITY EXISTS FOR DAYLIGHT HARVESTING ON, AUTO OFF WHEN UNOCCUPIED.
CONFERENCE ROOM	VACANCY SENSOR CONTROLLED DIMMABLE LUMINARIES, MANUAL SWITCH ON, AUTO OFF WHEN UNOCCUPIED. MANUAL DIMMING CONTROL VIA DIMMING SWITCH. ALL LUMINAIRES OFF WHEN UNOCCUPIED.
CORRIDOR	OCCUPANCY SENSOR CONTROLLED AUTO ON, AUTO OFF WHEN UNOCCUPIED. ALL NORMAL LUMINAIRES OFF WHEN UNOCCUPIED. ALL NIGHT LIGHTS DIMMED DOWN TO 50%.

LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS THE ACUITY NLIGHT PRODUCT.
ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SOFTWARE AND HARDWARE TO PROVIDE A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO BRIDGES, SMART SENSORS (OCCUPANCY AND PHOTOSENSOR), WALL STATIONS, POWER SUPPLIES, COMMUNICATIONS MODULES, CABLING, START UP AND COMMISSIONING. CONTRACTOR SHALL INCLUDE TASK TUNING LIGHTING DURING FINAL SETUP,
REFER TO FLOOR PLAN FOR ZONING.

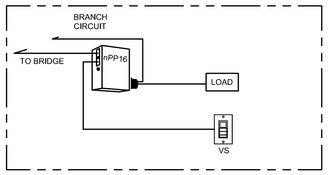
ELECTRICAL CONTRACTOR TO PROVIDE NLIGHT ECLYPSE SYSTEM CONTROLLER FOR TIME CLOCK AND SCHEDULING, BAS CONNECTIVITY AND OTHER FUNCTIONALITY AS REQUIRED.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED CONDUIT AND WIRING FOR AND BETWEEN ALL DEVICES PER MANUFACTURER REQUIREMENT.
ELECTRICAL CONTRACTOR TO INSTALL CAT6A PLENUM RATED CABLE BACK TO IDF/MDF CLOSET AND COORDINATE FINAL TERMINATION WITH THE OWNER.
ELECTRICAL CONTRACTOR TO COORDINATE WITH THE OWNER FOR SOFTWARE INSTALLATION AND ACCESS TO WINDOWS BASE SERVER.

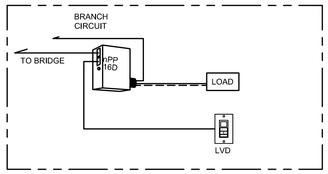
ELECTRICAL CONTRACTOR TO PROVIDE TRAINING TO THE OWNER, PROGRAMING AND TROUBLESHOOTING THE LIGHTING CONTROL SYSTEM

GENERAL NOTES

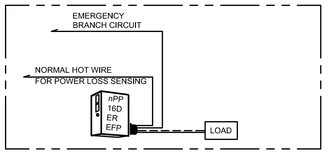
1. OCCUPANCY SENSOR, DAYLIGHT SENSOR, AND SWITCH QUANTITIES: PROVIDE QUANTITIES OF NOTED DEVICES AS SHOWN ON FLOOR PLANS, BUT NO LESS THAN ONE OF EACH DEVICE INDICATED ON THE WIRING DIAGRAMS. LIGHTING CONTROLS VENDOR MUST PROVIDE ALL ADDITIONAL APPARATUSES AND DEVICES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM AS NOTED ON THIS SHEET, ON THE DRAWING SET, AND AS REQUIRED IN THE PROJECT SPECIFICATION BOOK.
2. LIGHTING VENDOR TO CONFIRM QUANTITIES AND TYPE OF RELAY POWER PACKS REQUIRED MEET PROJECT SPECIFICATIONS AND DESIGN DRAWINGS. ALL LAYOUTS SHOW MINIMUM NUMBER OF DEVICES AND MUST BE EXPANDED TO APPLY TO EACH SPACE WITHIN PROJECT.
3. POWER LOSS SENSE CIRCUIT: EMERGENCY POWER PACKS MUST HAVE NON-EMERGENCY LIGHTING BRANCH CIRCUIT PROVIDED FOR PROPER POWER-LOSS SENSING. PROVIDE NON-EMERGENCY BRANCH CIRCUIT AHEAD OF LIGHTING CONTROLS FROM NEAREST LOCAL LIGHTING BRANCH. LIGHTS FED FROM NON-EM BRANCH MUST SERVE SAME AREA AS EMERGENCY LIGHTS.
4. PROVIDE PLENUM RATED CAT-5 INTERCONNECTION ACROSS MULTIPLE SPACES FOR ALL NLIGHT CONTROL SYSTEMS TO PROVIDE FLEXIBILITY FOR FUTURE NETWORKING.
5. COORDINATE FINAL LOCATION FOR BRIDGE, LIGHT SWITCHES, SENSORS, AND ECLYPSE PANEL WITH THE ARCHITECT.



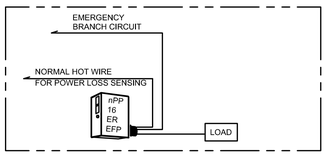
TYPICAL SINGLE WALL MOUNTED VACANCY SENSOR ROOM (NO DIMMING)



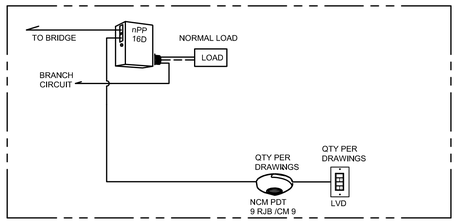
TYPICAL OFFICE WITH DIMMING



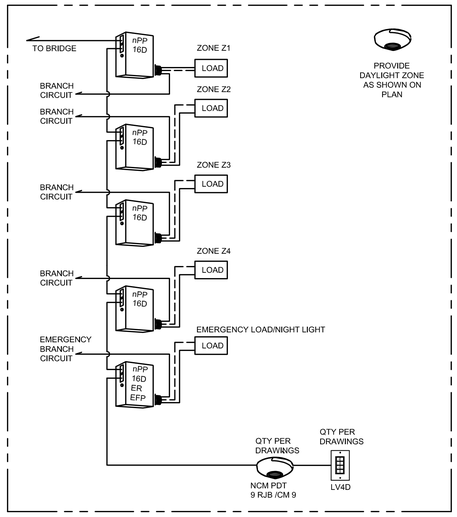
TYPICAL nLIGHT EMERGENCY POWER PACK WITH DIMMING



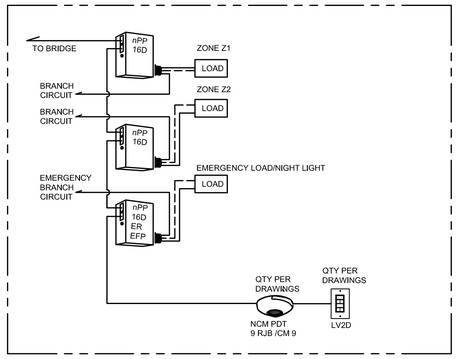
TYPICAL nLIGHT EMERGENCY POWER PACK



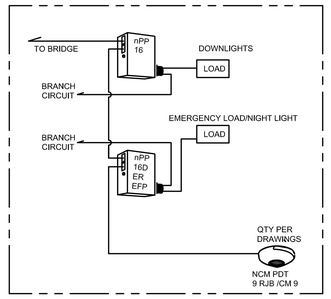
TYPICAL ENCLOSED OFFICE W/O EM



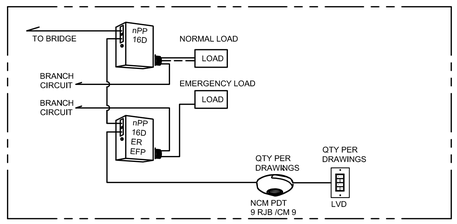
FOUNDATION OFFICE



SBDC RESOURCE/CONFERENCE/RECEPTION

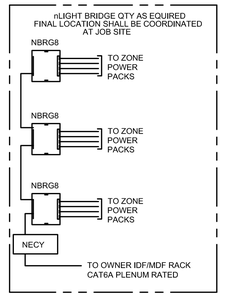


CORRIDOR



TYPICAL ENCLOSED OFFICE W/ EM

DIAGRAM SYMBOL	PLAN SYMBOL	DESCRIPTION
	LVD	WALLPOD: PUSH BUTTON ON/OFF + RAISE/LOWER 1-POLE, LOW VOLTAGE nLIGHT #nPODM DX WH
	LV2D	WALLPOD: PUSH BUTTON ON/OFF + RAISE/LOWER 2-POLE, LOW VOLTAGE nLIGHT #nPODM 2P DX WH
	LV4D	WALLPOD: PUSH BUTTON ON/OFF + RAISE/LOWER 3-POLE, LOW VOLTAGE nLIGHT #nPODM 4P DX WH
	VS	WALLPOD: PUSH BUTTON ON/OFF, 1-POLE, LOW VOLTAGE nLIGHT #nWSX PDT LV WH
	VSD	WALLPOD: PUSH BUTTON ON/OFF, 1-POLE, LOW VOLTAGE nLIGHT #nWSX PDT LV DX WH
	VS	CEILING MOUNTED, DUAL-TECH, LOW VOLTAGE VACANCY SENSOR WITH REAR PORT CONNECTION. nLIGHT #High Mount 360° (Model # CM 10) / (Model # CM 9)
	PC	CEILING MOUNTED, LOW VOLTAGE DAYLIGHT SENSOR WITH REAR PORT CONNECTION, nLIGHT #nCM ADCX
nPP16D	N/A	nLIGHT SERIES RELAY/POWER PACK FOR CIRCUIT CONTROL AND DIMMING. PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP16D
nPP16	N/A	nLIGHT SERIES RELAY/POWER PACK FOR CIRCUIT CONTROL. PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP16D
nPP 16 ER EFP	N/A	nLIGHT SERIES EMERGENCY RELAY/POWER PACK FOR EMERGENCY CIRCUIT CONTROL. PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #nPP16 ER EFP
nPP 16D ER EFP	N/A	nLIGHT SERIES EMERGENCY RELAY/POWER PACK FOR EMERGENCY CIRCUIT CONTROL. PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #nPP16D ER EFP
NBRG8	N/A	nLIGHT SERIES BACKBONE BRIDGE DEVICE. USED FOR NETWORKING ALL NLIGHT DEVICES TOGETHER IN A NETWORK OVER CAT5E nLIGHT #NBRG 8
NECY	N/A	NLIGHT ECLYPSE SYSTEM CONTROLLER TO COMMUNICATES OVER IP, ALLOWING THE SYSTEM CONTROLLER AND CONNECTED LIGHTING CONTROLS DEVICES TO BE ACCESSED AND CONFIGURED ACROSS A LOCAL AREA NETWORK. BACNET TESTING LABORATORIES (BTL) LISTED AS A BACNET BUILDING CONTROLLER (B-BC) PROVIDES TIME-OF-DAY AND ASTRONOMICAL TIME CLOCK CAPABILITIES FOR SCHEDULED LIGHTING CONTROL EVENTS
nIO X	N/A	NLIGHT A SMALL INLINE WIRED DEVICE THAT DIGITALLY INTERFACES AN NLIGHT-ENABLED ZONE WITH A NON-NLIGHT DEVICE WITH RS-232 OR RS-485 OUTPUTS



WIRE LEGEND
- 0-10V DIMMING WIRE PLENUM RATED
- 120V LINE VOLTAGE
- CATSE CABLE PLENUM RATED

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
Mechanical Services Associates Corp.
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

PARTNERSHIP HALL STUDIES

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUE FOR BID	13SEPT23

Job Number 021047.000

TITLE

ELECTRICAL LIGHTING CONTROL DETAILS

SHEET NUMBER

E41-01

ISSUE FOR BID 13SEPT23

FIRE ALARM SYSTEM GENERAL NOTES: (EXISTING SYSTEM)

1. FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE ALARM DEVICES IN LOCATIONS GIVEN AND WIRE BACK TO EXISTING FIRE ALARM CONTROL PANEL.

ALL FIRE ALARM WIRING TO BE INSTALLED IN RACEWAY. ALL RACEWAY IN FINISHED AREAS TO BE OF THE METALLIC WIREMOLD TYPE (COLOR SELECTED BY ARCHITECT). WHERE CONDUIT IS USED AS THE PREDOMINATE TYPE OF RACEWAY CONDUIT MAY BE USED (AT ARCHITECT'S DISCRETION) AND MUST BE PAINTED OUT TO MATCH SURROUNDING AREA.

2. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL WALK EACH BUILDING AND BECOME FAMILIARIZED WITH THE BUILDING CONSTRUCTION. TAKE NOTE TO ALL CEILING AND WALL MATERIALS PRIOR TO BIDDING. NO ADDITIONAL COST WILL BE INCURRED BY THE OWNER FOR WORK THAT COULD HAVE BEEN REASONABLY DETERMINED AND/OR AVOIDED HAD THE CONTRACTOR FIELD VERIFIED EXISTING BUILDING CONSTRUCTION TYPE AND CONDITIONS PRIOR TO BIDDING.

3. FIRE ALARM CONTRACTOR TO MOUNT VISUAL STROBES AT 80" AFF TO BOTTOM OF BOX OR AS REQUIRED BY LOCAL JURISDICTION.

4. FIRE ALARM CONTRACTOR TO MOUNT PULL STATIONS AT 48" AFF TO TOP OF BOX. OPERATING HANDLE HEIGHT NOT TO EXCEED 48" AFF.

5. FIRE ALARM CONTRACTOR SHALL VERIFY THAT ALL FIRE ALARM DEVICES CONFORM TO ILLINOIS ACCESSIBLITY CODE REQUIREMENTS.

6. FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL FIRE ALARM ZONE MAP IN A PLEXI-GLASS FRAME. MAPS TO BE MOUNTED NEXT TO CONTROL AND ANNUNCIATOR PANELS. GIVE (5) COPIES TO OWNER. SHOW ALL INITIATING DEVICES AND NAC PANELS. MAPS SHALL BE LEGIBLE AND OF A SIZE NO LARGER THAN 17"x22" UNLESS OTHERWISE AGREED UPON BY THE OWNER AND ENGINEER. DEVICES AND TEXT (I.E. ROOM NUMBERS) SHALL BE OF A SIZE SO AS TO BE CLEARLY LEGIBLE. TEXT TO BE A MINIMUM 3/32" IN HEIGHT.

7. TAMPER SWITCHES TO INDICATE "SUPERVISORY" ONLY.

8. EACH SIGNAL CIRCUIT SHALL NOT EXCEED 1.3 AMPS. ADJUST WIRE SIZES TO LIMIT VOLTAGE DROP AS PER NFPA 72 AND LOCAL CODE.

9. PROVIDE AND INSTALL ADDITIONAL POWER SUPPLIES/EXTENDER PANELS ("NAC" PANELS) AS REQUIRED FOR PROPER OPERATION OF NOTIFICATION CIRCUITS AND TO MINIMIZE WIRING RUNS TO FIRE ALARM CONTROL PANEL AND TO MEET SLC CIRCUIT DISTANCE LIMITATIONS. "NAC" PANELS SHALL BE INSTALLED IN JANITOR CLOSETS OR STORAGE ROOMS IF APPROVED BY THE OWNER. "NAC" PANELS WILL NOT BE INSTALLED ABOVE CEILINGS OR IN CEILING SPACES.

10. PROVIDE AND INSTALL RED PREFINISHED BACK BOX WHERE SURFACE MOUNTED BOXES ARE REQUIRED. INSTALL MANUFACTURER TRIM PLATE AS REQUIRED. COORDINATE COLOR PRIOR TO ORDERING.

11. CONTRACTOR SHALL MAINTAIN AN OPERABLE FIRE ALARM SYSTEM AT ALL TIMES. AT NO TIME SHALL THE BUILDING BE LEFT UNPROTECTED WITHOUT NOTIFICATION IN WRITING TO OWNER AND FIRE DEPARTMENT. MINIMUM 48 HOURS ADVANCED NOTICE IS REQUIRED. CONTRACTOR SHALL HIRE FIRE DEPARTMENT APPROVED GUARD/FIRE DEPARTMENT PERSONNEL TO WATCH BUILDING WHEN LEFT UNPROTECTED. MINIMIZE SYSTEM DOWN TIME TO THE FULLEST EXTENT POSSIBLE.

12. CONTRACTOR SHALL PROVIDE BATTERY BACKUP IN ORDER TO OBTAIN 24 HOURS OF STAND BY OPERATION IN THE EVENT OF A POWER FAILURE, THEN 2 HOURS OF ALARM TIME OR 15 MINUTES OF EMERGENCY ALARM OPERATION THEREAFTER AT MAXIMUM LOAD.

13. PROGRAM FIRE ALARM CONTROL PANEL TO DISPLAY ADDRESSABLE DEVICE TYPE, ITS ADDRESS AND ITS RESPECTIVE LOCATION. EXACT ROOM NAMES AND NUMBERS SHALL BE VERIFIED IN THE FIELD WITH THE OWNER. DO NOT USE ROOM NAME AND NUMBER INFORMATION INDICATED ON THE DRAWINGS WITHOUT ARCHITECT/OWNERS CONSENT IN WRITING. PRIOR TO PROGRAMMING FIRE ALARM CONTROL PANEL, SURVEY THE BUILDING WITH THE ARCHITECT/OWNER TO OBTAIN THE CORRECT ROOM NAME AND NUMBERING INFORMATION TO BE DISPLAYED ON THE CONTROL PANEL AND ANNUNCIATOR PANEL. SURVEYING AND PROGRAMMING OF THE CONTROL PANEL AS DESCRIBED ABOVE WILL BE DONE BY THE CONTRACTOR AS PART OF THIS CONTRACT.

14. SET EACH INITIATING DEVICE WITH ADDRESSABLE STATION NUMBER AS REQUIRED. LABEL EACH DEVICE WITH ADDRESS NUMBER. PROVIDE LIST OF ADDRESSABLE DEVICE LOCATION NUMBERS TO OWNER. LABEL EACH NOTIFICATION DEVICE WITH CIRCUIT INFORMATION. INCLUDE BAR CODE ON EACH DEVICE AS WELL. SEE SPECIFICATIONS.

15. CONTRACTOR SHALL TURN OVER ALL SMOKE DETECTOR DUST CAPS TO OWNER UPON COMPLETION OF PROJECT.

16. SMOKE AND/OR HEAT DETECTORS SHALL BE INSTALLED A MINIMUM OF 6 FEET AWAY FROM AIR SUPPLY OR AIR RETURN DIFFUSER GRILLES SO AS PREVENT FALSE ALARMS.

17. THE CONTRACTOR SHALL PERFORM AN INITIAL SYSTEM CHECKOUT TO DETERMINE FUNCTIONABILITY OF THE EXISTING SYSTEM PRIOR TO THE START OF WORK. PROVIDE DOCUMENTATION TO THE OWNER IDENTIFYING ANY FIRE ALARM COMPONENTS NOT CURRENTLY WORKING. IF THIS DOCUMENT IS NOT PROVIDED TO THE OWNER PRIOR TO THE START OF WORK, THE CONTRACTOR IS ACKNOWEDGING THAT ALL EXISTING SYSTEM COMPONENTS ARE IN PROPER WORKING ORDER.

18. FIRE ALARM SYSTEM DEMOLITION WORK SHALL BE PERFORMED AS SOON AS PRACTICAL IN ORDER TO LEAVE SUFFICIENT TIME DURING CONSTRUCTION TO CORRECT ANY PROBLEMS ENCOUNTERED WITH THE WIRING SYSTEM. THE CONTRACTORS SCOPE OF WORK SHALL INCLUDE REMOVAL OF FIRE ALARM DEVICES SHOWN ON DEMOLITION PLAN (TO BE REMOVED) AND TO ASCERTAIN ANY WIRING PROBLEMS OR ILLEGAL T-TAPPING OF HARD WIRED INITIATING AND NOTIFICATION CIRCUITS AS THEY MAY HAVE AN AFFECT ON ALL REMAINING DEVICES. PROVIDE A WRITTEN REPORT TO THE OWNER IDENTIFYING ALL DEFECTIVE DEVICES OR IMPROPER WIRING CONDITIONS.

19. IN FINISHED AREAS WHERE EXISTING SURFACE MOUNTED BACKBOXES, WIREMOLD OR CONDUIT HAVE BEEN REMOVE, PATCH AND PAINT WALLS AND/OR CEILINGS TO MATCH SURROUNDING AREAS. COORDINATE WITH THE ARCHITECT AND OWNER. NEW DEVICES AND RACEWAYS MAY BE MOUNTED AT NEW LOCATIONS.

20. ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL, PATCH AND PAINT AS REQUIRED. CONTRACTOR SHALL ARCHIVE AND DOCUMENT ALL EXISTING CEILING CONDITIONS ELECTRONICALLY PRIOR TO BEGINNING THE PROJECT. IF ANY DAMAGE IS FOUND THEY SHALL BRING IT TO THE ATTENTION OF THE OWNER IN WRITING PRIOR TO PERFORMING WORK. IF THIS DOCUMENTATION IS NOT PROVIDED THE CONTRACTOR IS ASSUMING THE LIABILITY FOR REPLACING ALL DAMAGED CEILING SYSTEMS DISCOVERED AFTER THE COMPLETION OF THE PROJECT. ALL DAMAGED CEILING SYSTEMS WILL BE REPLACED AT THE CONTRACTORS EXPENSE. PROVIDE WRITTEN DOCUMENTATION TO THE OWNER AT THE PRE-CONSTRUCTION MEETING.

21. ALL WALL AND FLOOR PENETRATIONS SHALL BE SLEEVED AND FIREPROOFED.

22. THE CONTRACTOR SHALL COORDINATE PROJECT SCHEDULING WITH THE OWNER TO ACCOMODATE ALL SCHOOL PROGRAMS. THE SCHOOL WILL OCCUPY ONLY AREAS DETERMINED TO BE SAFE AND NOT UNDER CONSTRUCTION PER THE AGREED UPON SCHEDULE. COORDINATE SCHEDULING OF WORK WITH THE OWNER UPON AWARD OF BID.

23. CONTRACTOR SHALL INCLUDE ALL EXPENSES FOR LOCATING AND REPLACING ALL EXISTING END-OF-LINE RESISTORS IN ORDER TO ALLOW EXISTING DEVICES TO BE COMPATIBLE WITH THE NEW SYSTEM AND/OR EXISTING (NEWER) CONTROL PANEL.

24. ALL NEW PULL STATIONS LOCATED NEAR VESTIBULES SHALL BE COORDINATED WITH ARCHITECT/FIRE DEPARTMENT PRIOR TO INSTALLATION. IN SOME CASES, THE FIRE DEPARTMENT MAY REQUIRE DEVICES TO BE INSTALLED WITHIN THE VESTIBULE. INCLUDE ALL ASSOCIATED COST FOR RELOCATION OF DEVICES TO THE VESTIBULE PER THE FIRE DEPARTMENTS DIRECTION.

25. INITIATING DEVICE, NOTIFICATION APPLIANCE AND SIGNALING LINE CIRCUITS: MEET NFPA 72 REQUIREMENTS.

INITIATING DEVICE CIRCUITS: CLASS A, LEVEL 1.
NOTIFICATION APPLIANCE CIRCUITS: CLASS A, LEVEL 1.
SIGNALING LINE CIRCUITS: CLASS A, LEVEL 1.
INSTALL NO MORE THAN 200 TOTAL ADDRESSABLE DEVICES ON EACH SIGNALING LINE CIRCUIT.
INCLUDE NO MORE THAN 125 INITIATING DEVICES AND 75 MODULES.

26. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER SPECIFICATIONS. INCLUDE ONE LINE RISER DIAGRAMS AND POINT-TO-POINTS. INCLUDE ACTUAL BUILDING WIRING PLANS SHOWING WIRING OF ALL DEVICES. WIRE ALL DEVICES FROM DEVICE-TO-DEVICE. DO NOT INSTALL INTERMEDIATE JUNCTION BOXES FOR T-TAPS.

27. FIRE ALARM CONTRACTOR SHALL BE A LICENSED STATE OF ILLINOIS FIRE ALARM CONTRACTOR HOLDING AT LEAST A NICET LEVEL 2 CERTIFICATION.

28. SYSTEM INSTALLATION SHALL BE TESTED AND CERTIFIED PER NFPA 72 REQUIREMENTS. SYSTEM TESTING MUST BE REVIEWED AND ACCEPTED BY THE LOCAL FIRE DEPARTMENT.

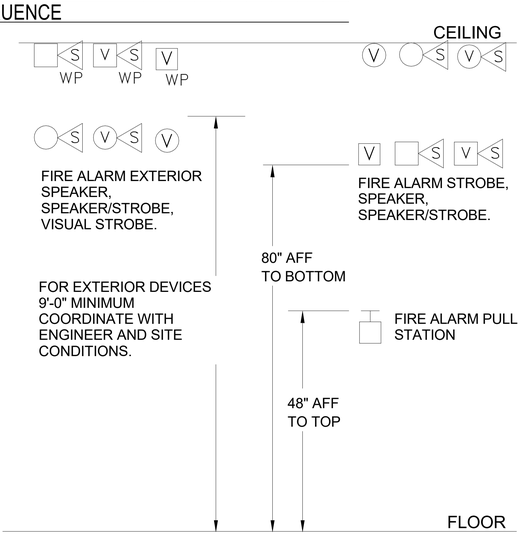
ALL WORK SHALL BE PERFORMED BY THE COLLEGE'S FIRE ALARM INTEGRATOR OF RECORD:
FOR SYSTEM UPGRADES, PARTS AND INSTALLATION CONTACT:
BRIAN SCHMID - 630.961.5900 - b.schmid@first-sec.com
FIRST SECURITY SYSTEMS, INC.
1811 HIGH GROVE, SUITE 191, NAPERVILLE, IL 60540

FOR SYSTEM PROGRAMMING CONTACT:
STEPHEN HUPP - 847.217.7509
FIRE SAFETY & SECURITY LIFE CYCLE SALES EXECUTIVE
SIEMENS SMART INFRASTRUCTURE
585 SLAWIN CT., MOUNT PROSPECT, IL 60056

UPON COMPLETION OF ALL FIRE ALARM WORK, THE CONTRACTOR SHALL TURN OVER ALL SYSTEM PASSCODES TO THE OWNER FOR SAFEKEEPING. INCLUDE ALL DOCUMENTATION SHOWING TRANSFERRING OF PASSCODES TO THE OWNER.

INITIATING DEVICE / GENERAL ALARM SYSTEM OPERATION	FACP ANNUNCIATION/CONTROL FEATURES: ACTUATE MAIN FACP CABINET COMMON ALARM SIGNAL	ACTUATE MAIN FACP CABINET AUDIBLE ALARM SIGNAL	ACTUATE MAIN FACP CABINET COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE MAIN FACP CABINET AUDIBLE SUPERVISORY SIGNAL	ACTUATE MAIN FACP CABINET COMMON TROUBLE SIGNAL INDICATOR	ACTUATE MAIN FACP CABINET AUDIBLE TROUBLE SIGNAL	ACTUATE AUDIBLE ALARM NOTIFICATION DEVICES	ACTUATE VISUAL ALARM NOTIFICATION DEVICES
INPUTS TO FIRE ALARM SYSTEM: MANUAL PULL STATIONS	X	X					X	X
OPEN CIRCUIT, SHORT CIRCUIT, GROUND FAULT					X	X		
FACP, TRANSPONDER, NAC AC POWER FAILURE					X	X		
FACP, TRANSPONDER, NAC LOW BATTERY			X	X				
FACP, TRANSPONDER, NAC BATTERY OR CHARGER FAILURE					X	X		
NAC OR SLC LOOP OPEN CIRCUIT, SHORT CIRCUIT, GROUND FAULT					X	X		
INITIATION DEVICE FAILURE OR COMMUNICATION FAILURE					X	X		
FIRE ALARM PANEL MANUAL FIRE DRILL			X	X			X	X
FACP, TRANSPONDER, NAC ABNORMAL SWITCH OR CONTROL POSITION			X	X				

3 FIRE ALARM OPERATION SEQUENCE
NOT TO SCALE



NOTES:
- ALIGN DEVICES VERTICALLY WHERE POSSIBLE.
- DEVICE BACK BOXES SHALL MATCH FACEPLATE CONFIGURATION (I.E. SINGLE-GANG, TWO-GANG, ETC...).
- REFER TO GENERAL ELECTRICAL AND FIRE ALARM NOTES FOR ADDITIONAL INFORMATION.

2 FIRE ALARM MOUNTING DETAIL
1/4" = 1'-0"

FIRE ALARM DEVICE SCHEDULE:

THIS IS AN EXTENSION OF AN EXISTING SIEMENS FIREFINDER XLS SYSTEM
CONTACT BRIAN SCHMID - FIRST SECURITY SYSTEMS INC. FOR ADDITIONAL INFORMATION.
630-961-5900; b.schmid@first-sec.com

DEVICES (SIEMENS):
#OP921 - SMOKE DETECTOR

#HI921 - HEAT DETECTOR

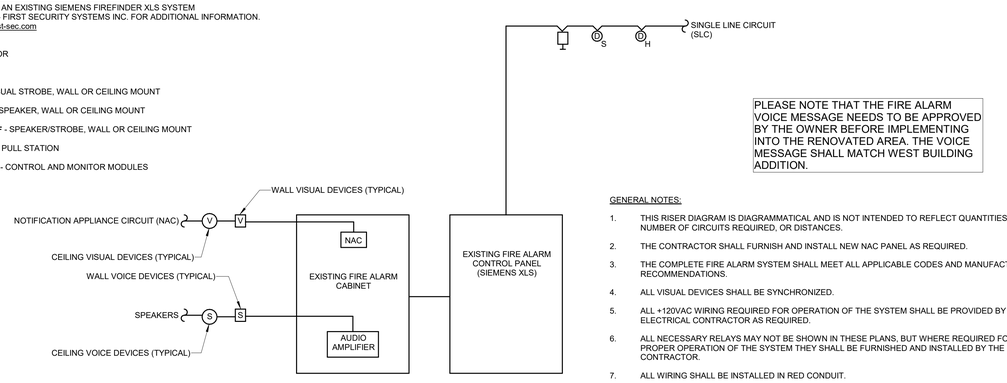
#SLSWR-F, #SLSCR-F - VISUAL STROBE, WALL OR CEILING MOUNT

#SLSPWR-F, #SLSPCR-F - SPEAKER, WALL OR CEILING MOUNT

#SLSPSWR-F, #SLSPSCR-F - SPEAKER/STROBE, WALL OR CEILING MOUNT

#XMS-D - DOUBLE ACTION PULL STATION

#XTRI-S, #XTRI-D, #XTRI-R - CONTROL AND MONITOR MODULES



PLEASE NOTE THAT THE FIRE ALARM VOICE MESSAGE NEEDS TO BE APPROVED BY THE OWNER BEFORE IMPLEMENTING INTO THE RENOVATED AREA. THE VOICE MESSAGE SHALL MATCH WEST BUILDING ADDITION.

GENERAL NOTES:

1. THIS RISER DIAGRAM IS DIAGRAMMATICAL AND IS NOT INTENDED TO REFLECT QUANTITIES, THE NUMBER OF CIRCUITS REQUIRED, OR DISTANCES.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW NAC PANEL AS REQUIRED.
3. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
4. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED.
5. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS REQUIRED.
6. ALL NECESSARY RELAYS MAY NOT BE SHOWN IN THESE PLANS, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
7. ALL WIRING SHALL BE INSTALLED IN RED CONDUIT.

1 EXISTING FIRE ALARM DIAGRAM
1" = 1'-0"

Perkins&Will
The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS
MEP
MECHANICAL SERVICES ASSOCIATES
111 S Virginia St, Crystal Lake, IL 60014

PROJECT
TENHOEVE BUILD-OUT

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E51-01

GENERAL ELECTRICAL NOTES:

1. PRIOR TO SUBMITTING THIS BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND THOROUGHLY ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS AND DETERMINE HOW THEY EFFECTIVELY WORK. THEY SHALL INCLUDE IN THEIR BID ANY ALTERATION, RELOCATION, REROUTING, ETC... OF EXISTING FACILITIES, WIRING, CONDUIT, PANELBOARDS REQUIRED FOR INSTALLATION OF NEW WORK. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE GIVEN CONSIDERATION FOR ADDITIONAL COMPENSATION DUE TO THEIR NEGLECT TO COMPLY WITH FOREGOING REQUIREMENTS.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CODES:
2015 INTERNATIONAL BUILDING CODE
2014 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FIRE CODE, NFPA 72
ILLINOIS ACCESSIBILITY CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
IN ADDITION TO THE ABOVE, FOLLOW ALL LOCAL CODES AND AMENDMENTS, UTILITY COMPANY REQUIREMENTS AND ANY OTHER REQUIREMENTS APPLICABLE TO THIS JOB. ELECTRICAL CONTRACTOR SHALL SUBMIT ANY REQUIRED DRAWINGS FOR APPROVAL TO ANY AGENCIES REQUIRING THEM AND OBTAIN NECESSARY PERMITS AT NO ADDITIONAL BID COSTS. ALL EQUIPMENT SHALL BE NEMA STANDARDS AND SHALL BE U.L. LISTED.

3. MOUNT RECEPTACLES, DATA JACKS AND TELEPHONE JACKS AT 16" AFF TO BOTTOM UNLESS OTHERWISE INDICATED.

   RECEPTACLES FOR GENERAL POWER SHALL BE NEMA 5-20R "TAMPER RESISTANT" HEAVY DUTY SPEC GRADE DUPLEX RECEPTACLE, WHITE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/OWNER.

   REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

   REFER TO TECHNOLOGY NOTES AND DETAILS FOR ADDITIONAL INFORMATION ON DATA AND TELEPHONE JACKS.

4. ALL SPECIAL RECEPTACLES INDICATED ON DRAWINGS BY ® SHALL BE COORDINATED WITH THE OWNERS EQUIPMENT PLUG CONFIGURATOR TO INSURE THAT NO CONFLICTIONS OCCUR BEFORE INSTALLATION. VERIFY WIRE SIZE AND QUANTITY WITH PLUG CONFIGURATION AS WELL (I.E. COPIER, RANGE/OVEN).

5. MOUNT WALL SWITCHES AT 48" AFF TO TOP. SWITCHES IDENTIFIED AS 120VOLT RATED SHALL BE 20 AMP RATED HEAVY DUTY SPEC GRADE WHITE IN COLOR UNLESS OTHERWISE INDICATED. COORDINATE COLOR WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHEN USING LINE VOLTAGE SWITCHES, INCLUDE NEUTRAL WIRE PER CODE.

6. REFER TO ALL ARCHITECTURAL AND CASEWORK DRAWINGS DURING INSTALLATION OF ALL SWITCHES, RECEPTACLES, TELEPHONE JACKS, DATA JACKS, JUNCTION BOXES, CLOCKS, VISUAL STROBES/HORN DEVICES, PULL STATIONS AND OTHER DEVICES SO THAT NO CONFLICTIONS WILL BE ENCOUNTERED. INFORM ARCHITECT OF ANY CONFLICTS THAT DO OCCUR BEFORE THE INSTALLATION OF ABOVE LISTED DEVICES.

7. MOUNT CONDUIT AND ELECTRICAL DEVICES FROM THE TOP CHORD OF BAR JOISTS ONLY. DO NOT RUN CONDUITS ABOVE TOP CHORD OF BAR JOIST THROUGH NEW OR ROOF DECKING MATERIAL ABOVE OR WITHIN 6" OF ROOF DECK SO AS TO PREVENT DAMAGE FROM ROOFING NAILS.

8. MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG FOR POWER AND LIGHTING BRANCH CIRCUITS. USE #10 AWG MINIMUM IF RUNS ARE OVER 75 FEET. MINIMUM SIZE FOR "EMERGENCY CIRCUITS" SUCH AS EXIT SIGN AND EMERGENCY/NIGHT LIGHTS SHALL BE MINIMUM #10 AWG. SIZE ALL CONDUCTORS IN ACCORDANCE WITH N.E.C. SECTION 310-15. MAINTAIN PROPER CONDUIT FILL CAPACITIES AND SIZE CONDUCTORS IN ACCORDANCE WITH ADJUSTMENT FACTORS LISTED IN N.E.C. 310-15 TABLE NOTE #8a (MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY). USE MULTIPLE PARALLEL RACEWAYS TO AVOID REDUCTION OF CONDUCTOR CAPACITIES, OTHERWISE INCREASE SIZE OF CONDUCTORS SO AS TO FOLLOW N.E.C. REQUIREMENTS.

9. ELECTRICAL CONTRACTOR SHALL SIZE ALL CONDUCTORS OVER 75 FEET SO AS TO MAINTAIN A VOLTAGE DROP EQUAL TO OR LESS THAN 2%.

10. BALANCE ALL PHASE WIRES WITHIN 5%.

11. INSTALL A SEPARATE DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE OF BOTH LIGHTING AND POWER MULTI-WIRE BRANCH CIRCUITS. IF A MULTI-WIRE BRANCH CIRCUIT CONTAINS THREE PHASE WIRES, THE CIRCUIT WILL REQUIRE THREE DEDICATED NEUTRALS.
   THE USE OF MULTI-POLE BRANCH BREAKERS TO ELIMINATE NEUTRAL CONDUCTORS IS NOT ALLOWED.

12. FOR ALL RECEPTACLES AND LIGHTING FIXTURES THAT DO NOT HAVE CIRCUIT INFORMATION PROVIDED, THE CONTRACTOR WILL CONNECT THESE DEVICES TO THE NEAREST AVAILABLE POWER PANEL SPARE CIRCUIT (OF MATCHING VOLTAGE) FOR THE DEVICE. CONTRACTOR ALSO HAS THE OPTION TO CONNECT TO THE LINE SIDE OF THE NEAREST AVAILABLE CIRCUIT IN THE AREA OF SUFFICIENT SIZE, PROVIDED THERE IS NO DETRIMENTAL EFFECTS IN DOING SO TO THE CIRCUIT CONNECTED TO.

13. INSTALL GROUNDING WIRE TO ALL DEVICES. USE GREEN WIRE. CONNECT THE GROUND WIRE TO A DEDICATED GROUND TERMINAL IN ALL DEVICE BOXES AND TO THE DEVICE GROUNDING WIRE.

14. STUB CONDUITS FOR ALL TELEPHONE JACKS, DATA JACKS, VIDEO JACKS, ETC... OUT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR TO CORRIDOR CABLE TRAY IF PRESENT. INSTALL END BUSHINGS AND FITTINGS ON END OF EACH CONDUIT STUB IN ORDER TO PROTECT CABLING.

15. ALL JUNCTION BOXES ABOVE CEILINGS SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON OUTSIDE OF COVERPLATE. ALL RECESSED WALL MOUNTED/FLOOR MOUNTED JUNCTION BOXES SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON THE INSIDE OF THE JUNCTION BOX TOWARD FRONT OF BOX LIP SO AS TO BE VISIBLE WITHOUT REMOVING WIRING DEVICE.

16. ALL JUNCTION BOXES INSTALLED ABOVE LAY-IN CEILINGS MUST BE INSTALLED BELOW FIREPROOF/GYPSUM CEILING. BOXES MUST NOT BE INSTALLED WITHIN GYPSUM CEILING MATERIAL. ALL CONDUIT PENETRATIONS THROUGH GYPSUM CEILING MUST BE FIREPROOFED/PATCHED.

17. FURNISH AND INSTALL NEMA 3R ELECTRICAL DEVICES FOR ALL EXTERIOR LOCATIONS.

18. "EMT" CONDUIT WILL NOT BE INSTALLED IN CONCRETE SLABS. ALL CONDUIT WILL BE INSTALLED PER SPECIFICATION SECTION 260533.

19. ALL UNDERGROUND WIRING WILL BE IN CONDUIT AND WILL BE INSTALLED PER N.E.C. AND LOCAL CODES AND COORDINATED IN FIELD PRIOR TO INSTALLATION.

20. SLEEVE AND FIREPROOF ALL PENETRATIONS THROUGH WALLS AND FLOORS. ALL CORING BY CONTRACTOR SHALL BE COORDINATED WITH ARCHITECT. PROVIDE AND INSTALL EXPANSION FITTINGS ON ALL CONDUITS AT BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL.

21. CIRCUIT BREAKERS SERVING FIRE ALARM CONTROL PANEL, SECURITY CONTROL PANEL, EMERGENCY LIGHTS/NIGHT LIGHTS, EXIT SIGNS AND POWER FOR SHUNT TRIP BREAKERS SHALL HAVE LOCK OUT DEVICE INSTALLED ON BREAKER TO PREVENT ACCIDENTAL TURN OFFS.

22. ALL NEW RECESSED PANELS BEING INSTALLED SHALL HAVE A MINIMUM OF (3) SPARE 3/4" CONDUITS STUBBED UP IN WALL AND DOWN BELOW FLOOR LINE WHEN LOWER LEVEL IS PRESENT TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.

23. ALL HOUSEKEEPING PADS INDICATED ON DRAWINGS SHALL BE 4" THICK REINFORCED CONCRETE. REFER TO ARCHITECTURAL FOR PARTIAL DETAIL.

24. FOR EXISTING ELECTRICAL PANELBOARDS AFFECTED BY NEW WORK, CONTRACTOR SHALL REVIEW EXISTING PANEL CARD DIRECTORIES AND VERIFY CORRECTNESS BY TRACING BRANCH CIRCUITS. UPDATE AND RECORD INFORMATION ON NEW PANEL CARD DIRECTORY. VERIFY CURRENT ROOM NAMES AND NUMBERS IN THE FIELD. DO NOT USE ROOM NAMES AND NUMBERS INDICATED ON THE DRAWINGS.

25. INSTALL BLANK PREFINISHED STAINLESS STEEL COVERPLATES ON ALL JUNCTION BOXES IN FINISHED AREAS NO LONGER USED AND CREATED BY DEMOLITION. USE BLANK GALVANIZED STEEL COVERPLATES FOR ALL BOXES ABOVE CEILINGS OR IN EXPOSED NON-FINISHED AREAS.

26. ALL OUTLETS, VIDEO JACKS, CLOCKS, PROGRAM BELLS, FIRE ALARM DEVICES, SECURITY DEVICES, SPEAKERS, ETC., CONFLICTING WITH NEW CEILINGS/CEILING HEIGHTS SHALL BE RELOCATED AT/OR BELOW NEW CEILINGS, WHICHEVER APPLIES. CONTRACTOR SHALL FURNISH AND INSTALL NEW JUNCTION BOXES, RACEWAY AND WIRING AS REQUIRED FOR EXTENDING SYSTEMS. ALL EXPOSED RACEWAYS SHALL BE OF THE WIREMOLD TYPE.

27. WHERE EXISTING CONDUIT AND WIRE CONFLICTS WITH NEW LIGHT FIXTURES BEING INSTALLED, CONTRACTOR SHALL REROUTE AROUND NEW LIGHT FIXTURE. EXTEND CONDUIT AND WIRING AS REQUIRED.

28. CONTRACTOR SHALL NOT DISTURB EXISTING COMPUTER/DATA CABLING UNLESS OTHERWISE INDICATED ON DRAWINGS.

29. ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL, PATCH AND PAINT AS REQUIRED. CONTRACTOR SHALL ARCHIVE AND DOCUMENT ALL EXISTING CEILING CONDITIONS ELECTRONICALLY PRIOR TO BEGINNING WORK. IF ANY DAMAGE IS FOUND THEY SHALL BRING IT TO THE ATTENTION OF THE OWNER IN WRITING PRIOR TO PERFORMING WORK. IF THIS DOCUMENTATION IS NOT PROVIDED THE CONTRACTOR IS ASSUMING THE LIABILITY FOR REPLACING ALL DAMAGED TILES DISCOVERED AFTER THE COMPLETION OF THE PROJECT. ALL DAMAGED TILES FOUND WILL BE REPLACED AT THE CONTRACTORS EXPENSE.

30. ALL EXPOSED RACEWAYS INSTALLED IN FINISHED AREAS SHALL BE OF THE WIREMOLD TYPE. EXPOSED CONDUIT WILL ONLY BE INSTALLED BY PERMISSION OF THE ARCHITECT. ALL EXPOSED CONDUIT INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH SURROUNDING AREAS.

31. CONTRACTOR SHALL REFER TO ARCHITECTURAL CUTTING AND PATCHING SPECIFICATIONS FOR INFORMATION REGARDING PERFORMANCE STANDARDS AND PROCEDURES.

32. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE ORIENTATION AND PLACEMENT. VERIFY EXACT LOCATION OF ALL CEILING DEVICES (I.E. FIRE ALARM DEVICES, CEILING SPEAKERS) WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION PRIOR TO INSTALLATION.

33. THE LIGHTING CONTRACTOR MUST HOLD AN ICC ENERGY EFFICIENCY INSTALLER CERTIFICATION IN ORDER TO PERFORM LIGHTING WORK THAT WILL ALLOW THE OWNER TO OBTAIN COMED ENERGY EFFICIENCY INCENTIVES. NO EXCEPTIONS.
   FOR DEMOLITION OF LIGHT FIXTURES, CONTRACTOR MUST FOLLOW ALL E.P.A. REQUIREMENTS FOR DISPOSAL OF FLUORESCENT LAMPS, BALLASTS AND BATTERIES. HALL LAMPS, BALLASTS AND BATTERIES TO AN E.P.A. APPROVED DISPOSAL SITE. USE D.O.T. APPROVED CONTAINMENT FOR TRANSFER OF LAMPS, BALLASTS AND BATTERIES. PROVIDE PROPER PAPER WORK TO THE OWNER SHOWING LEGAL DISPOSAL OF LAMPS, BALLASTS AND BATTERIES. FIXTURE HOUSINGS SHALL BE DISPOSED OF AS REQUIRED.
   CONTRACTOR SHALL KEEP AND INVENTORY OF EXISTING AND NEW FIXTURES AND ASSIST THE OWNER WITH THE PROPER PAPER WORK AND SUBMISSION OF PAPER WORK TO COMED.
   THE FOLLOWING INVENTORY ITEMS SHALL BE PROVIDED FOR EACH FIXTURE TYPE.
   FIXTURE TYPE, RECESSED, SURFACE, PENDANT, ETC...
   LAMPS: QUANTITY OF EACH TYPE, LAMP TYPE, LAMP VOLTAGE, LAMP WATTAGE.
   BALLASTS: QUANTITY OF EACH TYPE, BALLAST TYPE, BALLAST VOLTAGE, BALLAST WATTAGE RATINGS.
   BATTERIES: QUANTITY OF EACH TYPE, BATTERY TYPE, BATTERY VOLTAGE, BATTERY CAPACITY.

34. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURE MOUNTING HARDWARE INCLUDING PENDANTS, CANOPIES, TONG HANGERS, FLANGES, SAFETY CHAINS AND UNI-STRUT. WHEN PENDENT MOUNTING CONTINUOUS ROWS OF 4 FOOT FIXTURES, CONTRACTOR SHALL UTILIZE UNI-STRUT. PAINT CUT PENDANT AND UNI-STRUT TO MATCH LIGHT FIXTURES. WIPE OIL FROM PENDANTS AND UNI-STRUT WITH CHEMICAL CLEANER PRIOR TO PAINTING. LIGHT FIXTURES INSTALLED IN A GRID SHALL BE SUPPORTED FROM THE STRUCTURE WITH A MINIMUM OF (4) PENCIL ROD WIRES PER EACH FIXTURE. DO NOT SUPPORT FIXTURE FROM CEILING GRID.

35. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING CIRCUIT BREAKERS, DISCONNECT SWITCHES, STARTERS, FUSES, CONDUIT AND WIRING, ETC... ASSOCIATED WITH CONNECTION OF MECHANICAL EQUIPMENT TO ENSURE A COMPLETE WORKING INSTALLATION.

36. ALL FINAL CONNECTIONS MADE WITH FLEXIBLE CONDUIT FEEDING MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT, FLEXIBLE METAL CONDUIT AND SHALL HAVE GROUNDING WIRE INSTALLED.

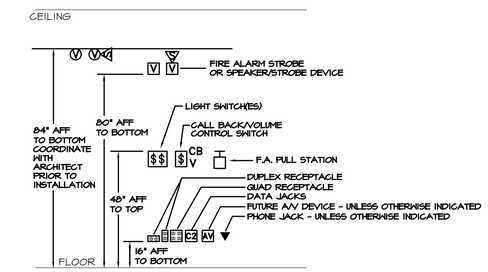
37. ALL OVERCURRENT PROTECTION AND WIRE SIZING FOR HVAC EQUIPMENT WILL BE COORDINATED BY THE CONTRACTOR WITH DRAWINGS AND MANUFACTURERS RECOMMENDATIONS.

38. FOR LOW VOLTAGE THERMOSTATS:
   THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOX AND CONDUIT STUBBED UP TO ABOVE CEILING FOR MECHANICAL CONTRACTORS THERMOSTAT. MOUNT AT 56 1/2" TO CENTER. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR ALL THERMOSTAT LOCATIONS. FOR EXISTING WALLS WHERE SURFACE MOUNTING IS REQUIRED, CONTRACTOR SHALL UTILIZE METALLIC WIREMOLD RACEWAY. IN EXISTING FINISHED AREAS WHERE NO LAY-IN CEILINGS ARE PRESENT, CONTRACTOR SHALL CONNECT THERMOSTAT TO MECHANICAL DEVICE WITH A CONTINUOUS RACEWAY SYSTEM.
   FOR LINE VOLTAGE THERMOSTATS:
   THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOX AND CONTINUOUS CONDUIT SYSTEM TO MECHANICAL UNIT SERVING FOR MECHANICAL CONTRACTORS THERMOSTAT AND WIRING. MOUNT JUNCTION BOX AT 56 1/2" TO CENTER. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR ALL THERMOSTAT LOCATIONS. FOR EXISTING WALLS WHERE SURFACE MOUNTING IS REQUIRED, CONTRACTOR SHALL UTILIZE METALLIC WIREMOLD RACEWAY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF LINE VOLTAGE THERMOSTAT TO MECHANICAL UNIT SERVING. FURNISH AND INSTALL REQUIRED WIRING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

39. FURNISH AND INSTALL ROUGH-IN FOR ALL SECURITY SYSTEM WORK AT NEW DOOR WAYS. ROUGH-IN FOR DOOR CONTACTS, DOOR LOCKS, CARD READERS AND REQUEST-TO-EXIT DEVICES. CONTRACTOR SHALL INSTALL 1/2" CONDUIT TO INSIDE OF DOOR FRAME AND STUBBED UP TO ABOVE ACCESSIBLE CEILING SPACE FOR CABLE ACCESS. FURNISH AND INSTALL 3/4" RACEWAY AND EMPTY BOX WITH BLANK FINISHED COVERPLATE FOR CARD READER. STUB TO ABOVE CEILING. INCLUDE PULL STRINGS FOR ALL RACEWAYS. REFER TO DRAWING FOR DETAILS FOR ADDITIONAL INFORMATION. COORDINATE IN FIELD PRIOR TO GROUTING DOOR FRAMES IN PLACE.

40. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL SPECIFICATIONS/DRAWING DOOR HARDWARE SCHEDULE FOR ALL ELECTRICAL REQUIREMENTS. INCLUDE CONDUIT, WIRING AND DEVICES AS REQUIRED FOR OPERATION OF LISTED DEVICES.

41. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID, AN ALLOWANCE FOR FURNISHING AND INSTALLING THE FOLLOWING ADDITIONAL DEVICES NOT SHOWN ON DRAWINGS:
   (2) DUPLEX RECEPTACLES
   (2) DATA JACKS
   (1) LIGHT SWITCH
   (1) LIGHT FIXTURE - INSTALLATION ONLY
   CONTRACTOR SHALL INCLUDE ASSOCIATED BACKBOXES, COVERPLATES, CONDUIT AND WIRING FOR CONNECTION OF ABOVE ITEMS FOR AVERAGE LENGTH OF A 50 FOOT RUN, 150 FOOT RUN FOR DATA AND TELEPHONE JACKS.



NOTES:
- ALIGN DEVICES VERTICALLY WHERE POSSIBLE.
- DEVICE BACK BOXES SHALL MATCH FACEPLATE CONFIGURATION (I.E. SINGLE-GANG, TWO-GANG, ETC...)
- DEVICE ORIENTATION (HORIZONTAL OR VERTICAL) SHALL BE COORDINATED WITH THE OWNER IN ORDER TO CONFORM TO OWNERS PREFERENCE AND STANDARDS.
- RECEPTACLES MOUNTED VERTICALLY SHALL HAVE THE GROUND PIN UP UNLESS OTHERWISE DIRECTED BY THE OWNER. RECEPTACLES MOUNTED HORIZONTALLY SHALL HAVE NEUTRAL BLADE UP UNLESS OTHERWISE DIRECTED BY THE OWNER.
- REFER TO GENERAL ELECTRICAL, FIRE ALARM, INTERCOM/CLOCK, SOUND SYSTEM AND TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.

ELECTRICAL DEVICE MOUNTING HEIGHT DETAIL

NO SCALE (UNLESS OTHERWISE INDICATED ON DRAWINGS)

ALL RACEWAYS TO BE CONCEALED INSIDE OF WALLS WHERE POSSIBLE.
ALL EXISTING WALLS SHALL BE FISHED WITH FLEXIBLE METAL CONDUIT "PAC" TO CONCEAL WIRING UP TO ABOVE CEILING.
WHERE UNABLE TO FISH WALL, USE METALLIC WIREMOLD RACEWAY SURFACE MOUNTED ON WALL UP TO ABOVE CEILING. COLOR SELECTED BY THE OWNER.

GENERAL ELECTRICAL DEMOLITION NOTES:

NOTES RE. EXISTING CONDITIONS:

1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
3. DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
4. DISCONNECT, REMOVE AND RELOCATE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, AND ALL OTHER ELECTRICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN ELECTRICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN.
6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
7. ALL CUTTING AND PATCHING AS REQUIRED FOR NEW WORK & ABANDONED DEVICES TO BE BY THE CONTRACTOR.
8. WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHALL:
   a. CUT CONDUITS OFF AT SLAB OR WALL LINE
   b. CAP ALL OBSOLETE CONDUIT.
9. WHERE THE EXISTING WIRING & CONDUIT SERVING ANY EXISTING ELECTRICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH CONDUIT & WIRING.
10. THE LIGHTING CONTRACTOR MUST HOLD AN ICC ENERGY EFFICIENCY INSTALLER CERTIFICATION IN ORDER TO PERFORM LIGHTING WORK THAT WILL ALLOW THE OWNER TO OBTAIN COMED ENERGY EFFICIENCY INCENTIVES. NO EXCEPTIONS.
    FOR DEMOLITION OF LIGHT FIXTURES, CONTRACTOR MUST FOLLOW ALL E.P.A. REQUIREMENTS FOR DISPOSAL OF FLUORESCENT LAMPS, BALLASTS AND BATTERIES. HALL LAMPS, BALLASTS AND BATTERIES TO AN E.P.A. APPROVED DISPOSAL SITE. USE D.O.T. APPROVED CONTAINMENT FOR TRANSFER OF LAMPS, BALLASTS AND BATTERIES. PROVIDE PROPER PAPER WORK TO THE OWNER SHOWING LEGAL DISPOSAL OF LAMPS, BALLASTS AND BATTERIES. FIXTURE HOUSINGS SHALL BE DISPOSED OF AS REQUIRED.
    CONTRACTOR SHALL KEEP AND INVENTORY OF EXISTING AND NEW FIXTURES AND ASSIST THE OWNER WITH THE PROPER PAPER WORK AND SUBMISSION OF PAPER WORK TO COMED.
    THE FOLLOWING INVENTORY ITEMS SHALL BE PROVIDED FOR EACH FIXTURE TYPE.
    FIXTURE TYPE, RECESSED, SURFACE, PENDANT, ETC...
    LAMPS: QUANTITY OF EACH TYPE, LAMP TYPE, LAMP VOLTAGE, LAMP WATTAGE.
    BALLASTS: QUANTITY OF EACH TYPE, BALLAST TYPE, BALLAST VOLTAGE, BALLAST WATTAGE RATINGS.
    BATTERIES: QUANTITY OF EACH TYPE, BATTERY TYPE, BATTERY VOLTAGE, BATTERY CAPACITY.

NOTES RE. INSPECTING EXISTING BUILDING:

1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS BEFORE SIGNING CONTRACTS. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
2. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT FOR THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
3. CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
4. CONTRACTOR, AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT BEFORE CONTRACT IS SIGNED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO.

NOTE:
ALL DEVICES SHOWN DOTTED, DASHED, OR INDICATED WITH A PLAN NOTE (INDICATING REMOVAL) ARE EXISTING TO BE REMOVED. ALL DEVICES SHOWN SOLID ARE EXISTING TO REMAIN. IF THE CONTRACTOR DEEMS IT NECESSARY FOR A DEVICE TO BE REMOVED, THEY SHALL COORDINATE IN FIELD WITH THE ARCHITECT/ENGINEER FOR APPROVAL.

GENERAL ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	JUNCT. BOX & FLEX CONDUIT	C C2 C3	COMPUTER OUTLET/JUNCT.BOX AND STUB
	SYSTEMS PANEL	$	WALL SWITCH
T	TRANSFORMER		SINGLE FACE EXIT SIGN
	DUPLEX RECEPTACLE TAMPER RESISTANT		DOUBLE FACE EXIT SIGN
	QUAD-RECEPTACLE TAMPER RESISTANT		RECESSED 2 X 4 LIGHT FIXTURE
	SPECIAL RECEPTACLE		SURFACE STRIP LIGHT FIXTURE
GFI	GROUND FAULT INTERUPTER TAMPER RESISTANT		EMERGENCY/ NIGHT LIGHT
AC	RECEPTACLE ABOVE COUNTER	VSC	VACANCY SENSOR
ER	EXISTING DEVICE TO REMAIN	PSC	DAY-LIGHT HARVESTING PHOTO SENSOR
R&R	REMOVE & REPLACE DEVICE	H	FIRE ALARM PULL STATION
EWC	ELECTRIC WATER COOLER	V	FIRE ALARM VISUAL STROBE
AC	MOUNTED ABOVE COUNTER	V	WALL MOUNTED SPEAKER/STROBE DEVICE
WG	WIRE GUARD		FUSED SWITCH
TG	TAMPER GUARD	V	CEILING MOUNTED SPEAKER/STROBE DEVICE
TP	TAMPER PROOF	V	CEILING MOUNTED STROBE DEVICE
WP	WEATHER PROOF	EM	EMERGENCY FIXTURE
LI	LAY-IN CEILING	NL	NIGHT LIGHT FIXTURE
GYP	GYP BOARD CEILING		
EXP	EXPOSED CEILING		
SP	SPLINE CEILING		

Perkins&Will
The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
T.312.755.0770
F.312.755.0775
www.perkinswill.com

CONSULTANTS
MEP
Mechanical Services Associates Corp.
111 S Virginia St, Crystal Lake, IL 60014

PROJECT
PARTNERSHIP HALL STUDIES

Oakton College
OAKTON COLLEGE
1600 Golf Rd, Des Plaines, IL 60016

PROGRESS PRINTING 13SEPT23

KEYPLAN

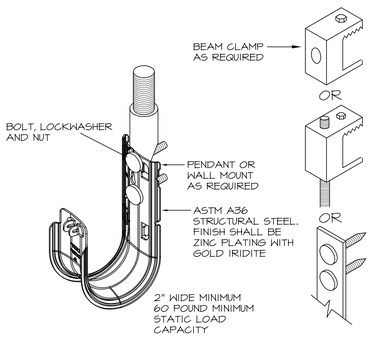
ISSUE CHART

No.	ISSUE FOR BID	13SEP23
Mark	ISSUE	DATE

Job Number 02104 7.000

TITLE
ELECTRICAL GENERAL NOTES AND SYMBOLS

SHEET NUMBER
E61-01

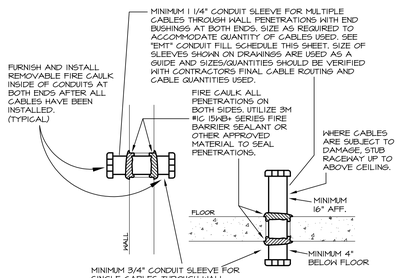


USE MULTIPLE TIERS FOR SEPERATION OF SYSTEMS. (PAGING, VIDEO, PHONE, DATA, ETC...)

CADDY #CAT HP SERIES J-HOOK DETAIL

NO SCALE

FOR INSTALLATION ABOVE CEILINGS



WALL/FLOOR PENETRATION DETAIL

NO SCALE

NETWORK CABLE SCHEDULE

CABLE TYPE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
CAT-6 DATA CABLE FOR WORKSTATIONS	COMMSCOPE	2071E SERIES	CAT 6 NETWORK CABLE GIGA5PEED XL PLENUM RATED 4-PAIR, #23 AWG UTP	COLOR - WHITE SEE DATA NOTES
CAT-6 DATA CABLE FOR "WAPS"	COMMSCOPE	2071E SERIES	CAT 6 NETWORK CABLE GIGA5PEED XL PLENUM RATED 4-PAIR, #23 AWG UTP	COLOR - WHITE SEE DATA NOTES

CONTRACTOR SHALL FURNISH AND INSTALL CABLES AND CONNECTORS AS SPECIFIED TO INTERCONNECT ALL AS NOTED ON DRAWINGS AND RISER DETAILS. DETERMINE ALL REQUIRED LENGTHS OF CABLES IN FIELD PRIOR TO ORDERING. UPON COMPLETION OF WORK, CONTRACTOR SHALL TEST AND CERTIFY EACH CONNECTION FOR PROPER OPERATION.

ALL PATCH CORDS SHALL BE PROVIDED BY THE OWNER

CABLE MANAGEMENT

VELCRO TIES	COMMSCOPE	HPAC SERIES	8" BLACK VELCRO CABLE MANAGEMENT	FOR WIRE MANAGEMENT OF DATA AND AUDIO/VISUAL CABLING

CONTRACTOR SHALL FURNISH AND INSTALL CABLES AND CONNECTORS AS SPECIFIED TO INTERCONNECT ALL AS NOTED ON DRAWINGS AND RISER DETAILS. DETERMINE ALL REQUIRED LENGTHS OF CABLES IN FIELD PRIOR TO ORDERING. UPON COMPLETION OF WORK, CONTRACTOR SHALL TEST AND CERTIFY EACH CONNECTION FOR PROPER OPERATION.

WIRELESS ACCESS POINT "WAP" DEVICE SCHEDULE

(FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR)

DEVICE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
WAP			CEILING MOUNTED WIRELESS ACCESS POINT FURNISHED BY THE OWNER.	WAP DEVICES, CEILING MOUNTING BRACKETS AND PATCH CORDS TO BE FURNISHED BY THE OWNER. CONTRACTOR SHALL INSTALL DEVICES AT LOCATIONS INDICATED.

"EMT" CONDUIT FILL GUIDE

CONTRACTOR TO VERIFY ALL INFORMATION WITH ACTUAL NEC REQUIREMENTS AND FINAL CABLES TYPE SELECTED.

PLENUM			No. OF CABLES AT 40% CONDUIT FILL BASED ON "EMT" TRADE SIZE OF THE CONDUIT (INCHES)							
CABLE	TYPE	O.D.	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
CATEGORY 6 GIGA5PEED XL	4pr UTP	0.226	6	9	14	24	38	55	75	98
CATEGORY 6 GIGA5PEED X10D SHIELDED	4pr UTP	0.276	4	7	10	18	28	41	56	73

CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT SLEEVES THROUGH ALL WALLS ABOVE CEILING FOR CABLING ACCESS. SIZE AS REQUIRED PER FILL TABLE ABOVE AND PROVIDE ADDITIONAL 50% SPARE CAPACITY FOR FUTURE GROWTH. SLEEVES IN MDF/IDF ROOMS SHALL BE MINIMUM OF 3 1/2" IN SIZE. ALL SLEEVES SHALL BE EQUIPPED WITH END BUSHINGS/FITTINGS TO PROTECT CABLING. FIREPROOF ALL SLEEVES/WALL PENETRATIONS WHEN COMPLETE.

MINIMUM CONDUIT SIZE IS 1".

DATA CABLE & DATA JACK NOTES:

1. CABLES:
   REFER TO "CABLE SCHEDULE" FOR DATA CABLE INFORMATION.
2. ALL DATA CABLES TO BE RUN BACK TO LOCAL AREA RACK (REFER TO RISER DIAGRAM). MAINTAIN A MINIMUM CLEARANCE OF 5" AWAY FROM LIGHT FIXTURES (REFER TO RISER DIAGRAM).
3. JACKS:
   DATA JACKS TO BE COMMSCOPE/SYSTIMAX #MGS400 SERIES CAT-6, RJ45 MODULAR JACK WITH 110 TERMINATION. COLOR TO BE WHITE. FINAL COLOR SELECTIONS SHALL BE COORDINATED WITH THE OWNER AND THEIR REQUIREMENTS. INSTALL DATA JACKS IN ALL COVER PLATES AND MODULAR PATCH PANELS AS INDICATED ON DRAWINGS AND DETAILS.
4. FACE PLATES:
   REFER TO FACE PLATE DETAILS FOR FACE PLATE INFORMATION. PROVIDE EQUAL AMOUNTS OF BLUE ICONS TO SATISFY AMOUNT OF JACKS.
5. EXISTING "MDF"/"IDF" RACK:
   FURNISH AND INSTALL ENOUGH PATCH PANELS TO COVER ALL CABLING AND HAVE A MINIMUM OF (15) SPARE PORTS. PATCH PANELS SHALL BE CAT-6, 110, 48 PORT PATCH PANEL COMMSCOPE/SYSTIMAX #360-IPR-110-E-GS3-2U-48 WITH EQUAL AMOUNTS OF (8)LIGO BLUE ICONS, (YEL)50 YELLOW ICONS AS AMOUNT OF PORTS AVAILABLE. FURNISH AND INSTALL CABLE MANAGEMENT PANELS ABOVE AND BELOW EACH PATCH PANEL. TERMINATE ALL DATA CABLES ON PATCH PANELS. PROVIDE LABELING KITS TO OWNER UPON COMPLETION OF WORK. PROVIDE CLEAR DUST COVER ON ALL JACKS. UTILIZE 4" VELCRO STRAPS AS REQUIRED FOR PATCH PANEL CABLE MANAGEMENT.
6. PATCH CORDS:
   ALL PATCH CORDS ARE TO BE PROVIDED BY THE OWNER UNLESS OTHERWISE SPECIFIED.
7. RUN ALL CABLE ABOVE CEILING THROUGH CADDY CABLECAT "ORIGINAL" J-HOOKS (NO MORE THAN 4'-0" SPACING) SUITABLE FOR CAT-6 CABLING AND CABLE TIES (DO NOT OVER FASTEN). KEEP CABLE SAG WITHIN 4"-12" AND MOUNT AS HIGH AS POSSIBLE AUDIBLE OTHER SYSTEMS/TRADES. UTILIZE EXISTING CABLE TRAY WHEN AVAILABLE. DO NOT INSTALL CABLING ABOVE TOP CHORD OF BAR JOISTS OR WITHIN 6" OF ROOF DECK TO PREVENT ROOFING NAIL DAMAGE. DO NOT USE WEBS OF BAR JOISTS FOR SUPPORTING CABLING. DO NOT SUPPORT CABLING FROM CEILING SUPPORT WIRES. DO NOT SUPPORT CABLING FROM OTHER SYSTEMS.
8. PROVIDE SPARE RJ45 JACKS TO OWNER UPON COMPLETION OF JOB. REFER TO SPECIFICATIONS FOR QUANTITY.
9. ALL SYSTEMS SHALL MEET OR EXCEED COMMSCOPE/SYSTIMAX REQUIREMENTS, STATE OR LOCAL CODES AND ORDINANCES AND U.L. STANDARDS. THE ENTIRE COMMSCOPE/SYSTIMAX SYSTEM SHALL BE PROVIDED WITH A 20 YEAR WARRANTY AND SYSTEM PERFORMANCE GUARANTEE PROGRAM. ALL LABOR AND MATERIALS SHALL BE PROVIDED AT NO EXPENSES TO THE OWNER. GUARANTEE PERIOD SHALL BEGIN ON THE DAY OF ACCEPTANCE BY THE OWNER/ENGINEER.
10. INSTALLER SHALL BE A COMMSCOPE/SYSTIMAX CERTIFIED COMPETENT INSTALLER IN THE FIELD OF COMPUTER DATA WIRING INSTALLATION.
11. INSTALLER SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE INSTALLING 1 GIG AND 10 GIG UTP CABLING FOR COMPUTER DATA SYSTEMS.
12. THE DATA CABLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING THE DESIRED CABLING ROUTES (THROUGH THE BUILDING) TO EACH AREA'S RESPECTIVE MDF/IDF RACK TO MEET DISTANCE LIMITATION OF 90 METERS. ROUTINGS SHALL FOLLOW PRIMARY PATHWAYS (I.E. CORRIDORS), SHORTEST DISTANCE POSSIBLE AND BE CONCEALED ABOVE LAY-IN CEILINGS. ALTERNATE PATHWAYS (SPECIAL CONDITIONS) SHALL BE COORDINATED IN THE SHOP DRAWING STAGE WITH THE ENGINEER. PLEASE NOTE THAT ZONING OF BUILDING IS SHOWN ON THE DRAWINGS IDENTIFYING MDF/IDF RACK LOCATION SERVING AREA.
13. PROVIDE THREE SETS OF AS-BUILT DRAWINGS INCLUDING COVER SHEET, NOTES AND DETAILS SHEETS INDICATING RECORD CONDITIONING OF EQUIPMENT LOCATION AND CABLING. DRAWINGS TO INCLUDE EACH JACK LOCATION AND ITS TERMINATION RACK/PATCH PANEL/PORT INFORMATION.
14. PROVIDE ALL NECESSARY WIRING, HARDWARE, ETC., FOR A COMPLETE SYSTEMS INSTALLATION.
15. PROVIDE ALL NECESSARY WIRING, AS NOTED ON DRAWINGS, ALL EXPOSED WIRING SHALL BE RUN IN RACEWAY, NO WIRING SHALL BE RUN EXPOSED ON CEILINGS, FLOORS, OR WALLS UNLESS APPROVED BY OWNER/ENGINEER OR INDICATED OTHERWISE ON DRAWINGS.
16. ALL JACKS, PATCH PANELS, WIRES (BOTH ENDS) AND OTHER ACCESSORIES SHALL BE CLEARLY & PERMANENTLY IDENTIFIED AND LABELED. PROVIDE A WIRING LOG BOOK SHOWING ALL TERMINATION AND WIRING CORRESPONDING TO EACH ROOM. COORDINATE WITH OWNER.
17. CONDUCT LINK TESTS & INSPECTIONS AFTER INSTALLATION HAS BEEN COMPLETED TO ASSURE THE OWNER'S REQUIREMENTS FOR INSTALLATION HAVE BEEN MET (FOLLOW TIA/EIA 568.C STANDARDS). UPON REQUEST, PRIOR TO OWNER'S ACCEPTANCE, ALLOW ACCESS BY THE OWNER TO TEST THE EQUIPMENT AND WIRING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LINK TESTING EACH RUN "END-TO-END" AND CERTIFYING, IN WRITING, THAT THE CABLING MEETS 10GIG CATEGORY 6 UTP SPECIFICATIONS AND IS IN PROPER WORKING CONDITION. EACH UTP CABLE SHALL BE FULLY TESTED. A LANTEK 11-500 OR FLUKE DTX-1800 SERIES TESTER, OR EQUIVALENT, SHALL BE USED TO TEST/CERTIFY EACH UTP CABLE (USE A LEVEL 4 TESTER). THE OUTPUT FROM EACH UTP CABLE TEST/CERTIFICATION SHALL BE PRINTED AND PROVIDED TO OWNER.
    a. REQUIRED TEST DATA FOR EACH UTP CABLE SHALL INCLUDE THE FOLLOWING: INSERTION LOSS (IL), NEAR END CROSSTALK (NEXT), POWER SUM NEAR END CROSSTALK (PS NEXT); ATTENUATION TO CROSSTALK RATIO - NEAR END (ACR-N); POWER SUM ATTENUATION TO CROSSTALK RATIO - NEAR END (PSACR-N); FAR END CROSSTALK (FEXT); ATTENUATION TO CROSSTALK RATIO - FAR END (ACR-F), POWER SUM ATTENUATION TO CROSSTALK RATIO - FAR END (PSACR-F), RETURN LOSS (RL), WIRE MAP, PROPAGATION DELAY, DELAY SKEW, LENGTH. PROVIDE A PRINT OUT AND DISKETTE TO ENGINEER AND HUBBELL SALES REPRESENTATIVE. TEST DATA MUST BE PROVIDED FOR BOTH HORIZONTAL AND BACKBONE LINKS. REFER TO PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

   ALL UTP CABLES FROM ROOM LOCATIONS TO COMMUNICATIONS RACK PATCH PANELS MUST BE WITHIN THE CAT-6 DISTANCE OF 295 FEET. THE CONTRACTOR SHALL NOTIFY OWNER OF ANY LOCATIONS THAT EXCEED THE DISTANCE LIMITATION.

   THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE DETAILED DOCUMENTATION OF "AS INSTALLED" FOR THE DATA NETWORK WIRING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING DOCUMENTATION CHECKLISTS PROVIDED BY THE OWNER. PROVIDE FINAL AS-BUILT DRAWINGS TO THE OWNER IN HARD COPY AND ELECTRONIC AUTOCAD AND PDF FORMATS. ALL DATA/VOICE JACK LOCATIONS SHALL HAVE THEIR RACK AND PORT INFORMATION SHOWN ON AS-BUILTS. ALL MAPS ON AS-BUILTS, ALL MAPS AND TIME CLOCKS SHALL HAVE THEIR RACK/PORT INFORMATION SHOWN AS WELL AS SERIAL NUMBER SHOWN FOR TROUBLESHOOTING PURPOSES. INCLUDE WAP SERIAL NUMBER, MAC ADDRESS, RACK, PATCH PANEL AND PORT INFORMATION.
18. ALL LABOR AND MATERIALS SHALL BE PROVIDED TO THE OWNER. GUARANTEE PERIOD SHALL BEGIN ON THE DAY OF ACCEPTANCE BY THE OWNER/ENGINEER.
19. CONTRACTOR SHALL CORE WALLS AS REQUIRED FOR INSTALLATION OF DATA CABLING. VERIFY ALL LOCATIONS OF CORES WITH OWNER/ENGINEER IN FIELD. ALL CORES SHALL BE SLEEVED WITH CONDUIT & FIRE PROOFED AS REQUIRED. FIELD VERIFY ALL EQUIPMENT & PIPING LOCATIONS BEFORE MAKING CORES. UNDER NO CIRCUMSTANCES WILL ANY STRUCTURAL MEMBER BE CUT IN THIS PROCESS. CONTRACTOR SHALL SIZE SLEEVES PER NEC 40% FILL REQUIREMENTS. ALL SLEEVES SHALL HAVE 50% SPARE CAPACITY FOR FUTURE CABLES, SIZE AS REQUIRED. FURNISH AND INSTALL FITTINGS AND END BUSHINGS AT ENDS OF SLEEVES IN ORDER TO PROTECT CABLING.
    WHERE WALLS DO NOT EXTEND ALL THE WAY UP TO THE DECK, THE CONTRACTOR WILL CONTINUE TO INSTALL CABLING CONDUIT SLEEVES AT THOSE LOCATIONS FOR FUTURE WALL EXTENSIONS.
20. ALL CEILINGS SHALL BE REMOVED, REINSTALLED AND/OR REPLACED BY CONTRACTOR FOR INSTALLATION OF NEW CABLING. REPLACE ALL DAMAGED TILES WITH TYPE/STYLE TO MATCH EXISTING. ALL CEILINGS MUST BE PROFESSIONALLY RESTORED.
21. INSTALLATION PRACTICES:
    STRIP BACK ONLY AS MUCH CABLE JACKET AS IS REQUIRED FOR TERMINATION AND MAINTAIN PAIR TWISTS AS CLOSE AS POSSIBLE TO THE POINT OF MECHANICAL TERMINATION. AT A MINIMUM, NEVER ALLOW UNTWISTING OF PAIRS TO EXCEED 0.5" MAXIMUM. MAINTAIN A MAXIMUM BEND RADIUS OF 4X THE CABLE DIAMETER FOR ALL CABLE(S). 6X IN CONDUIT. APPLY CABLE TIES LOOSELY AND AT RANDOM INTERVALS. TRY TO MINIMIZE THE AMOUNT OF JACKET TWISTING. AVOID STRETCHING THE CABLE. USE APPROPRIATE METHODS FOR DRESSING AND SECURING CABLES (I.E. CABLE TIES, WIRE MANAGEMENT PANELS, CABLE SUPPORT BAR, RESEALABLE VELCRO STRAPS).

    NEVER EXCEED A 90 DEGREE BEND. MINIMUM BEND RADIUS OF 4X CABLE O.D. REQUIRED. DO NOT OVER TIGHTEN CABLE TIES. DO NOT OVER TWIST CABLE (IT CAN LEAD TO TORN JACKETS). DO NOT EXCEED 25 lbs. OF PULLING TENSION. DO NOT USE STAPLE GUNS TO POSITION OR FASTEN CABLES.
22. WHEN STORING SLACK IN CABLES AS A SERVICE LOOP, STORE IN A FIGURE EIGHT PATTERN TO REDUCE EMI COUPLING.
23. COORDINATE ALL FINAL "WAP" LOCATIONS IN THE FIELD WITH OWNER AND ENGINEER PRIOR TO ROUGH-IN. ALL WAP LOCATIONS SHALL BE NOTED ON AS-BUILTS. INCLUDE WAP SERIAL NUMBER, MAC ADDRESS, RACK, PATCH PANEL AND PORT INFORMATION.
24. INSPECTION OF EXISTING SYSTEM:
    THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING THE EXISTING NETWORK SYSTEMS THAT WILL BE WORKED ON (DURING THE COURSE OF THE CONSTRUCTION PROJECT) BEFORE TOUCHING. THIS INSPECTION WILL NEED TO DOCUMENT ANY ISSUES WITH THE EXISTING SYSTEM THAT ARE AFFECTING THEIR PROPER OPERATION. IF THIS REPORT IS NOT PROVIDED, THE CONTRACTOR IS ATTESTING THAT ALL SYSTEMS WERE FUNCTIONAL AND PROPERLY OPERATING BEFORE THE START OF THE CONSTRUCTION AND WILL BE RESPONSIBLE FOR ALL REPAIRS. THE ONUS IS ON THE CONTRACTOR TO IDENTIFY PROBLEMS WITH ANY ANY OF THE SYSTEMS TO THE OWNER PRIOR TO CONSTRUCTION.

T568B (AT&T)

COLOR	CATALOG # T568B WIRING
DATA - WHITE	MGS400-262

WIRING FORMAT

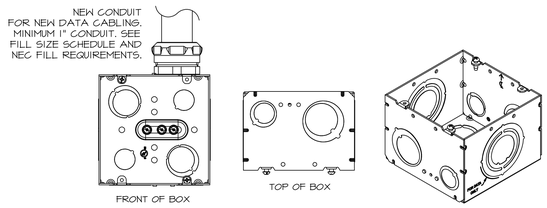
SEE CHART FOR OPTIONAL SNAP IN COLORED ICONS (50 PER BAG)

NOTES:
1. MGS400 JACKS ARE UL (#E129878 AND CSA (#LR80837) LISTED.
2. JACK CONTACTS ARE BERYLLIUM COPPER AND NICKLE PLATED.
3. MODULAR JACKS MEET OR EXCEDE F.C.C. PART 68.5.
4. JACK HOUSINGS ARE MADE OF HIGH IMPACT, 94 V-0 RATED THERMOPLASTIC.
5. 110 CONTACTS ARE TIN LEAD PLATED IDC.
6. COMPATIBLE WIRE SIZES, 22-26 AWG AND A MAX INSULATION SIZE OF .050 INCH. SEE ABOVE FOR WIRING FORMATS.
7. FOR MORE INFORMATION CONTACT YOUR CUSTOMER SERVICE REPRESENTATIVE.

8 POSITION CATEGORY 6 - COMMSCOPE SYSTIMAX MGS400 SERIES MODULAR JACKS

NO SCALE

(USE FOR WORKSTATION JACKS)

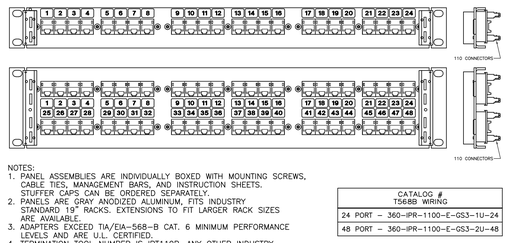


HUBBELL #HBL260 SERIES LARGE CAPACITY WALL BOX WITH 2-GANG MUD RING. INSTALL NEW COVERPLATE (WITH LABEL FIELD). LABEL ALL CABLES AND INSTALL NEW ID LABELS.

HUBBELL LARGE CAPACITY WALL BOXES

NO SCALE

LOW VOLTAGE CONTRACTOR TO COORDINATE BOXES AND ORIENTATION WITH THE ELECTRICAL CONTRACTOR SO AS TO HAVE USE OF APPROPRIATE SIZE KNOCK-OUT. VERIFY WALL CONSTRUCTION DEPTHS BEFORE ORDERING DEEP BACK BOXES.

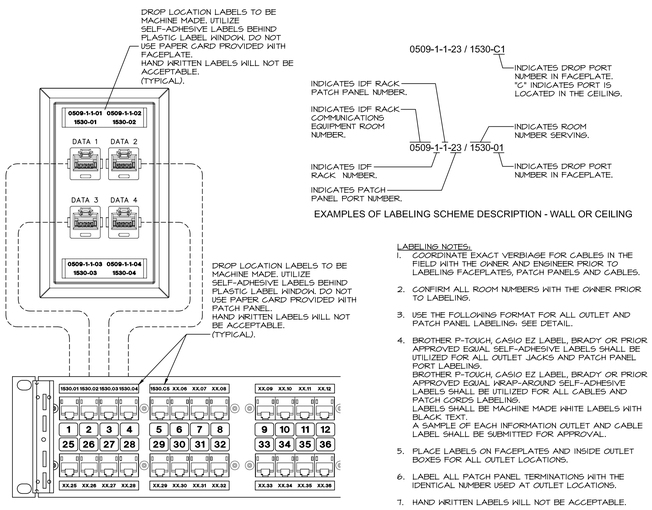


NOTES:
1. PANEL ASSEMBLIES ARE INDIVIDUALLY BOXED WITH MOUNTING SCREWS, CABLE TIES, MANAGEMENT BARS, AND INSTRUCTION SHEETS. STUFFER CAPS CAN BE ORDERED SEPARATELY.
2. PANELS ARE GRAY ANODIZED ALUMINUM, FITS INDUSTRY STANDARD 19" RACKS. EXTENSIONS TO FIT LARGER RACK SIZES ARE AVAILABLE.
3. ADAPTERS EXCEED TIA/EIA-568-B CAT. 6 MINIMUM PERFORMANCE LEVELS AND ARE U.L. CERTIFIED.
4. TERMINATION TOOL NUMBER IS IPT110B. ANY OTHER INDUSTRY ACCEPTED 110 TERMINATION TOOL MAY BE USED.
5. U.L. #E129878 AND CSA #LR80837.

CATALOG # T568B WIRING
24 PORT - 360-IPR-1100-E-GS3-1U-24
48 PORT - 360-IPR-1100-E-GS3-2U-48

COMMSCOPE GigaSPEED XL SERIES CAT. 6 PATCH PANEL

NO SCALE



EXAMPLES OF LABELING SCHEME DESCRIPTION - WALL OR CEILING

LABELING NOTES:
1. COORDINATE EXACT VERBIAGE FOR CABLES IN THE FIELD WITH THE OWNER AND ENGINEER PRIOR TO LABELING FACEPLATES, PATCH PANELS AND CABLES.
2. CONFIRM ALL ROOM NUMBERS WITH THE OWNER PRIOR TO LABELING.
3. USE THE FOLLOWING FORMAT FOR ALL OUTLET AND PATCH PANEL LABELING: SEE DETAIL.
4. BROTHER P-TOUCH, CASIO EZ LABEL, BRADY OR PRIOR APPROVED EQUAL SELF-ADHESIVE LABELS SHALL BE UTILIZED FOR ALL OUTLET JACKS AND PATCH PANEL PORT LABELING.
   BROTHER P-TOUCH, CASIO EZ LABEL, BRADY OR PRIOR APPROVED EQUAL WRAP-AROUND SELF-ADHESIVE LABELS SHALL BE UTILIZED FOR ALL CABLES AND PATCH CORDS LABELING.
   LABELS SHALL BE MACHINE MADE WHITE LABELS WITH BLACK TEXT.
   A SAMPLE OF EACH INFORMATION OUTLET AND CABLE LABEL SHALL BE SUBMITTED FOR APPROVAL.
5. PLACE LABELS ON FACEPLATES AND INSIDE OUTLET BOXES FOR ALL OUTLET LOCATIONS.
6. LABEL ALL PATCH PANEL TERMINATIONS WITH THE IDENTICAL NUMBER USED AT OUTLET LOCATIONS.
7. HAND WRITTEN LABELS WILL NOT BE ACCEPTABLE.

DATA JACK AND PATCH PANEL LABELING DETAIL

NO SCALE

EXAMPLE - CABLES SERVING CEILING PORTS (I.E. SECURITY CAMERAS, WIRELESS AP'S, ETC...)

0509-1-1-23 / 1530-C01 — DATA CABLE

"IDF-RACK # - PATCH PANEL # - PORT # / ROOM-PORT"

EXAMPLE - CABLES SERVING WALL PORTS

0509-1-1-23 / 1530-01 — DATA CABLE

"IDF-RACK # - PATCH PANEL # - PORT # / ROOM-PORT"

COORDINATE EXACT VERBIAGE FOR CABLES IN THE FIELD WITH THE OWNER AND ENGINEER PRIOR TO LABELING CABLES.

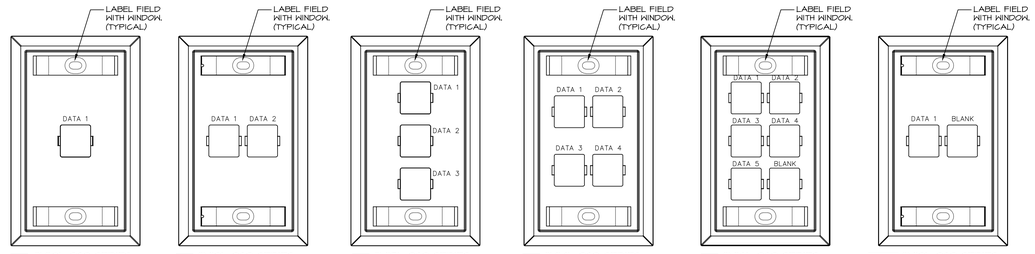
LABEL CABLE AT EACH END (MDF/IDF CLOSET AND ROOM BEING SERVED) WITH THE DEVICE BEING SERVED.

LABELS SHALL BE A WRAP AROUND SELF-ADHESIVE TYPE WHITE LABEL WITH BLACK TEXT TYPICAL TO PANDUIT SELF-ADHESIVE POLYESTER LABELS. TEXT SHALL BE TYPED ONTO LABEL.

HAND-WRITTEN LABELS WILL NOT BE ACCEPTABLE.

CABLE LABEL DETAIL

NO SCALE



C1 #M10L-262 SERIES FACEPLATE MOUNTED ON 2-GANG BACK BOX WITH MUD RING AND (1) 1" CONDUIT STUB..

C2 #M12L-262 SERIES FACEPLATE MOUNTED ON 2-GANG BACK BOX WITH MUD RING AND (1) 1" CONDUIT STUB.

C3 #M13L-262 SERIES FACEPLATE MOUNTED ON 2-GANG BACK BOX WITH MUD RING AND (1) 1" CONDUIT STUB..

C4 #M14L-262 SERIES FACEPLATE MOUNTED ON 2-GANG BACK BOX WITH MUD RING AND (1) 1" CONDUIT STUB..

C5 #M16L-262 SERIES FACEPLATE MOUNTED ON 2-GANG BACK BOX WITH MUD RING AND (1) 1" CONDUIT STUB..

WAP #M12L-262 SERIES FACEPLATE MOUNTED ON 2-GANG BACK BOX WITH MUD RING AND (1) 1" CONDUIT STUB..

NOTES:
1. USE DEEP BOXES TO FIT NEW COMPONENTS.
2. UTILIZE APPROPRIATE SIZE RACEWAY TO FIT CABLING REQUIREMENTS.
3. FOLLOW ALL COMMSCOPE/SYSTIMAX CABLING INSTALLATION REQUIREMENTS.

COMMSCOPE "L" TYPE SERIES FACEPLATES

NO SCALE

WITH LABEL FIELD

ALL CABLING TO BE PLENUM RATED.

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
Mechanical Services Associates Corp.
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

PARTNERSHIP HALL STUDIES

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

ISSUED FOR BID 13SEPT23

KEYPLAN

ISSUE CHART

NO.	ISSUED FOR BID	13SEPT23
MARK	ISSUE	DATE

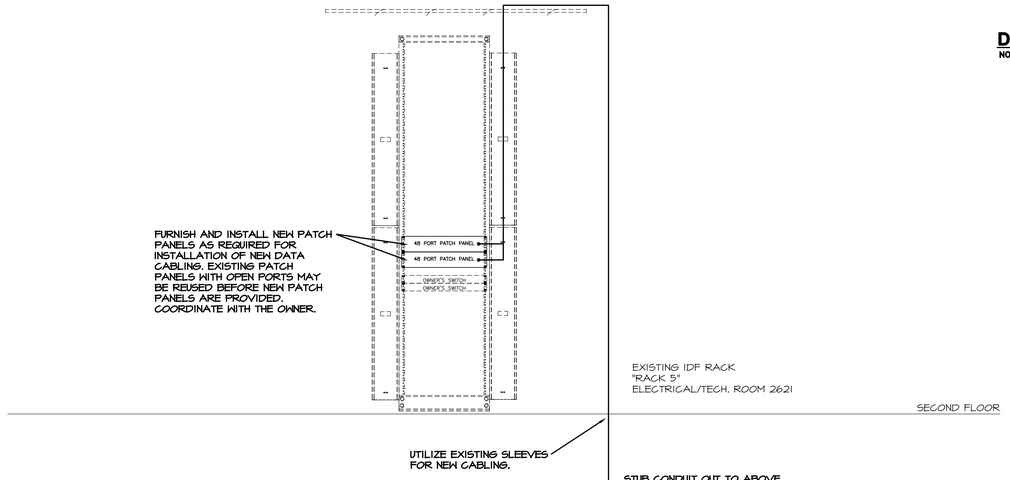
Job Number 021047.000

TITLE

TECHNOLOGY NOTES AND DETAILS

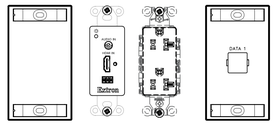
SHEET NUMBER

E71-01



PARTIAL DATA RACK RISER DIAGRAM

NO SCALE

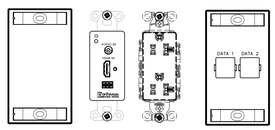


AV

- POWER RECEPTACLE(S) (REFER TO ELECTRICAL DRAWINGS)
- EXTRON #MFD 110A HDMI.
- M12L-262 PLATE WITH HS5620 SERIES CAT-6 DATA JACKS
- BLANK COVER PLATE

AV WALL BOX DEVICES

NO SCALE



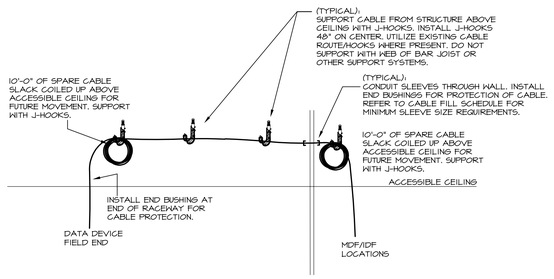
FB

- POWER RECEPTACLE(S) (REFER TO ELECTRICAL DRAWINGS)
- EXTRON #MFD 110A HDMI. (INCLUDE ADDITIONAL #MFD-110A AND 10' HDMI PATCH CORD TO CONNECT TO FURNITURE HDMI OUTLET BOX)
- M12L-262 PLATE WITH HS5620 SERIES CAT-6 DATA JACKS
- BLANK COVER PLATE

FLOOR BOX DEVICES

NO SCALE

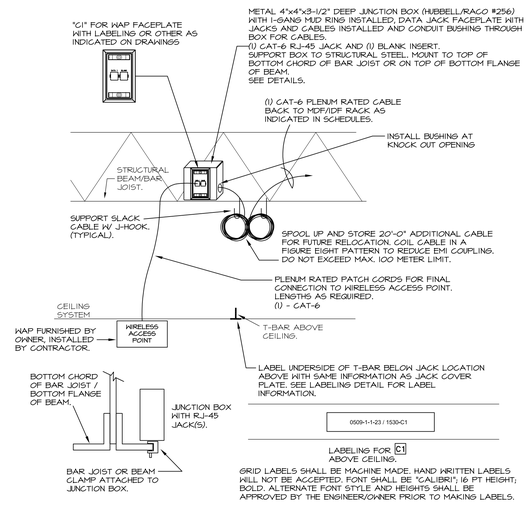
INTERCONNECT EXTRON HDMI CONNECTIONS BETWEEN FLOOR BOX AND WALL BOX.



DATA CONNECTION DETAIL SERVICE LOOP

NO SCALE

FOR COPPER DATA CABLING



IF INSTALLING ON HARD CEILING (PLASTER, TIN, EXPOSED CONCRETE) IN FINISHED AREA USE PRE-FINISHED METAL BACK BOX, DO NOT PROVIDE COILED CABLE AT BOX, BUT INSTALL COIL IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.

CONTRACTOR SHALL COORDINATE ALL FINAL LOCATIONS IN FIELD WITH "WAP" DEVICE INSTALLING CONTRACTOR AND ALLOW FOR UP TO 20'-0" OF MOVEMENT FROM LOCATION SHOWN ON DRAWINGS WITHOUT ADDITIONAL COST.

CEILING MOUNTED DATA CONNECTION DETAIL

NO SCALE

FOR LAY-IN CEILINGS ONLY, NOT TO BE USED IN ROOMS WITH EXPOSED CEILINGS.

ALL CABLING TO BE PLENUM RATED.

ISSUED FOR BID 13SEPT23

Perkins&Will

The Wrigley Building
410 North Michigan Ave,
Suite 1600
Chicago, IL 60611
t 312.755.0770
f 312.755.0775
www.perkinswill.com

CONSULTANTS

MEP

Mechanical Services Associates Corp.
111 S Virginia St, Crystal Lake, IL 60014

PROJECT

PARTNERSHIP HALL STUDIES

Oakton College

OAKTON COLLEGE

1600 Golf Rd, Des Plaines, IL 60016

KEYPLAN

ISSUE CHART

NO.	ISSUE	DATE
1	ISSUED FOR BID	13SEPT23

Job Number 021047.000

TITLE

TECHNOLOGY NOTES AND DETAILS

SHEET NUMBER

E71-02