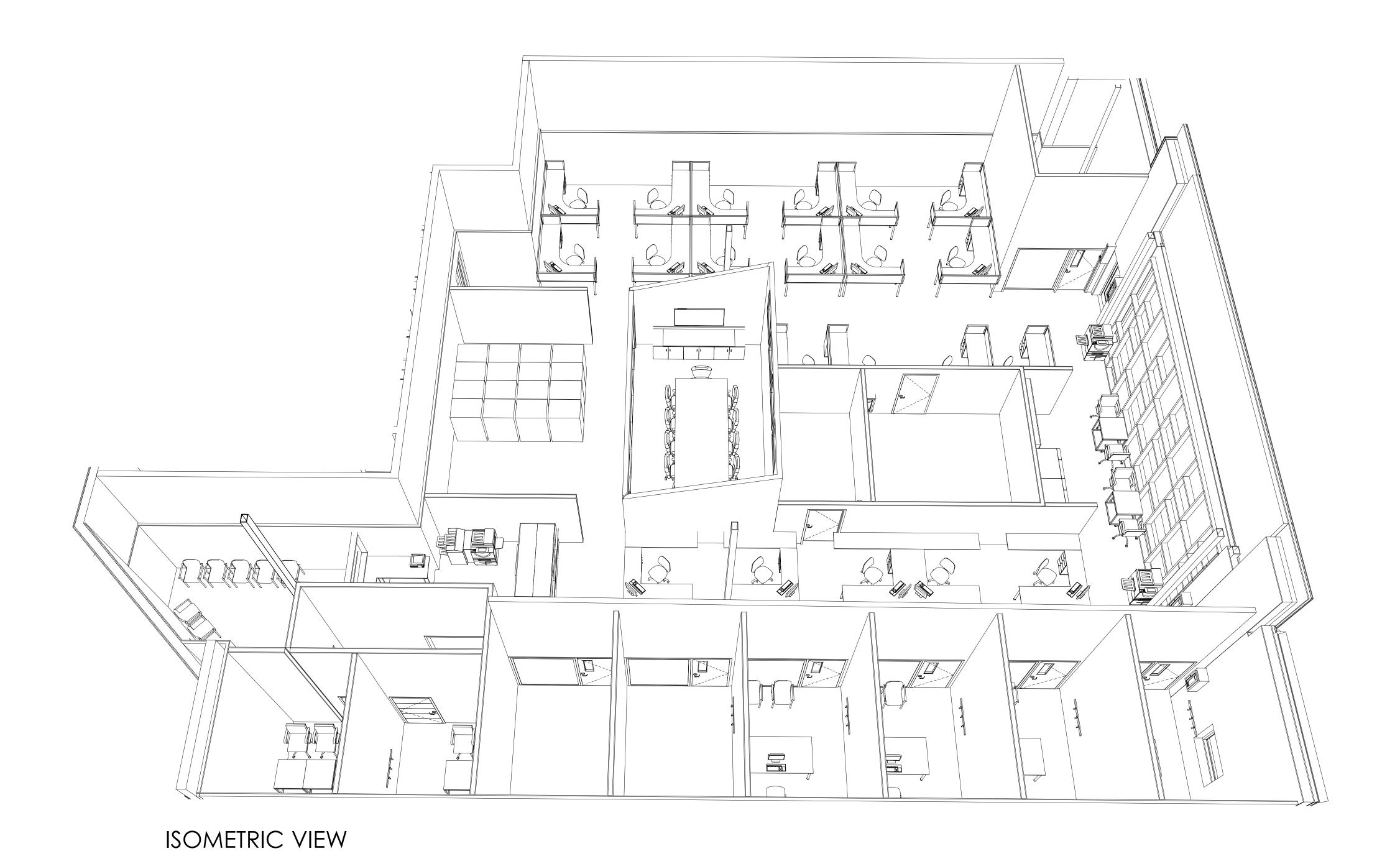
USDA FIT-OUT

1238 COUNTY WELFARE ROAD LEESPORT, PA 19533



MECHANICAL & ELECTRICAL ENGINEER

1032 JAMES DRIVE LEESPORT, PA 19533

SYSTEMS DESIGN ENGINEERING, INC.

CONTACT: STEVE GRIBB

EMAIL: S.GRIBB@SDEI.NET

PHONE: 610.916.8538

LOCATION MAP

PROJECT DIRECTORY

633 COURT STREET READING PA 19601

PHONE: 610.478.6201 X6220 FAX: 610.478.6363

955 BERKSHIRE BLVD. SUITE 101 WYOMISSING PA 19610

EMAIL: RLEVENGOOD@CountyOfBerks.gov

CONTACT: JIM A. SARRO AIA, LEED AP BD+C

EMAIL: JIMS@MG-Architects.com

<u>OWNER</u>

<u>ARCHITECT</u>

0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 8:59 AM

COUNTY OF BERKS

MG ARCHITECTS, LTD.

PHONE: 610.376.4927

CONTACT: REX LEVENGOOD

GENERAL NOTES

- 1. EACH PRIME CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK OR PURCHASING ANY MATERIALS. VERIFY LAYOUT IN RELATION TO PROPERTY LINES, BENCH MARKS, OR OTHER FIXED CONDITIONS AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY UPON DISCOVERY.
- 2. NOTIFY ARCHITECT OF DISCREPANCIES REGARDING THE CONTRACT DOCUMENTS OR DESIGN INTENT IMMEDIATELY UPON DISCOVERY. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK.
- 3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WORK SITE IN A CLEAN AND ORDERLY MANNER AND ALLOW FOR SAFE USE OF PREMISES BY THE OWNER AND VISITORS.
- 4. EACH PRIME CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SITE SAFETY, EROSION AND SEDIMENTATION CONTROL, AND COORDINATING WITH THE WORK OF OTHER TRADES.
- 5. GENERAL CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH COUNTIES APPROVED POINT OF CONTACT.
- 6. ALL REFUSE SHALL BE THE RESPONSIBILITY OF EACH PRIME CONTRACTOR

AND SHALL BE PROPERLY DISPOSED OF OFF-SITE IN A LEGAL MANNER.

- 7. SKILLED WORKERS: EACH PRIME CONTRACTOR SHALL PROVIDE WORKERS EXPERIENCED IN THE TRADES AND ACTIVITIES TO BE PERFORMED AND BE FAMILIAR WITH THE PRODUCTS, MATERIALS, AND FINISHES INVOLVED IN THE SCOPE OF WORK OF THIS PROJECT.
- 8. EACH PRIME CONTRACTOR SHALL PATCH ALL DISTURBED AREAS TO MATCH EXISTING, AND REPAIR OR REPLACE ANY DAMAGE TO THE SITE CAUSED BY CONSTRUCTION.
- 9. GENERAL CONTRACTOR SHALL PLAN THE SCHEDULE OF ACTIVITIES TO MAINTAIN THE SECURITY OF THE BUILDING THROUGHOUT THE CONSTRUCTION PROCESS. GENERAL CONTRACTOR SHALL LOCK AND SECURE PROJECT AREA AT THE END OF EACH WORK DAY.
- 10. GENERAL CONTRACTOR TO ENSURE THAT ALL WORK AREAS, INCLUDING THOSE ON ROOFS, SHALL BE IN COMPLIANCE WITH OSHA STANDARDS AND REQUIREMENTS, INCLUDING ANY FLAGGING, TIE-OFFS, AND TEMPORARY BARRIERS.

NOTE TO BIDDER

1. SPECIFICATION BOOK PREPARED FOR THE AG CENTER FACILITY UPGRADE PROJECT IS TO BE UTILIZED FOR THIS PROJECT. IF REQUIRED, ADDITIONAL SPECIFICATIONS WILL BE PROVIDED AS PART OF THIS WORK.

PROJECT DRAWIG LIST

GENERAL & CODE INFO

A-001 GENERAL INFORMATION A-002 LIFE SAFETY PLAN

PLANS

A-101 PARTITION PLAN A-102 KEYNOTE PLAN A-103 FURNITURE PLAN

ENLARGED PLANS

A-401 ENLARGED PLAN

A-402 INTERIOR ELEVATIONS

DETAILS A-501 DETAILS

SCHEDULES & DIAGRAMS A-601 DOOR SCHEDULE

FINISH PLANS A-701 REFLECTED CEILING PLAN

A-702 FINISH PLAN

PLUMBING DRAWINGS

P-101 PLUMBING PLAN

MECHANICAL DRAWINGS

H-002 HVAC COVER SHEET

H-200 HVAC LAYOUT H-200D HVAC DEMO LAYOUT

ELECTRICAL DRAWINGS

E-001 ELECTRICAL LEGEND & ABBREVIATIONS E-103 ELETRICAL LIGHTING PLAN

E-203 ELECTRICAL POWER & SYSTEMS PLAN

E-302 SPECIAL SYSTEMS DIAGRAMS & DETAILS E-501 ELECTRICAL SINGLE LINE DIAGRAM

E-503 ELECTRICAL PANEL SCHEDULES

22-0012 PROFESSIONAL SEAL

ARCHITECTURAL DESIGN

INTERIOR DESIGN

CODE ANALYSIS

PLANNING SERVICES

REPORTS AND STUDIES

ENGINEERING SERVICES

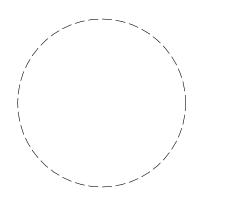
HISTORIC PRESERVATION

55 BERKSHIRE BLVD., SUITE 101

WYOMISSING, PA 19610 610.376.4927

www.MG-Architects.com

PROJECT #:



JIM A. SARRO AIA, LEED AP BD+C JIMS@MG-Architects.com

COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220

RLEVENGOOD@CountyOfBerks.gov

	ISSUED	
	DATE: ISSUED 8/17/23	
)	DESCRIPTION	DATE

PROJ. MGR.: JIM SARRO P.M. e-MAIL: JIMS@MG-Architects.com DRAWN BY: DK, SG, BB, JS

CLIENT PROJ #:

LABORATORIES

WITH

WD WOOD

W.C. WATER CLOSET

AND

DEGREE

ANGLE

NUMBER

SQUARE

☐ / C.L. CENTER LINE

☐ / PL. PLATE

∟ LEG-BAR

∏ U-BAR

Ø ROUND / DIAMETER

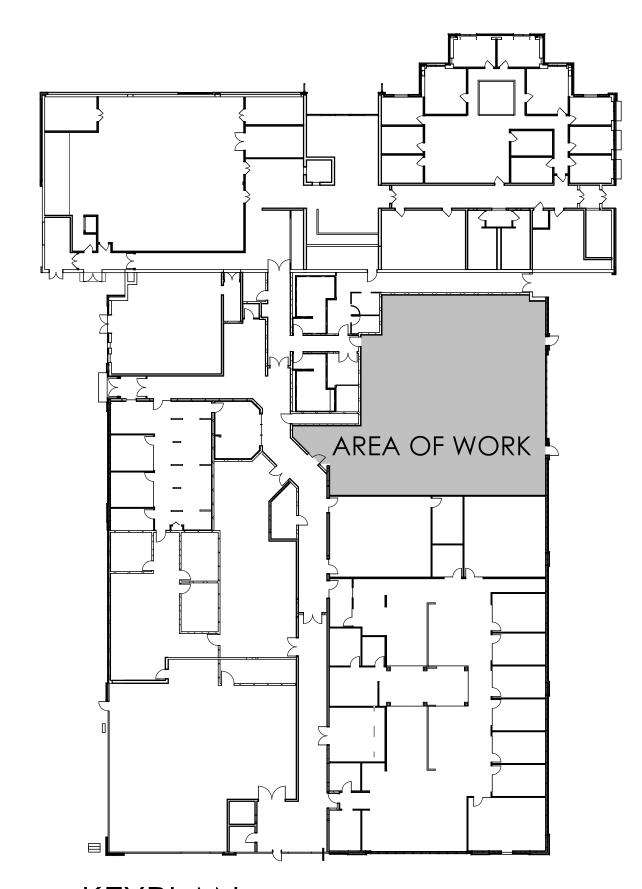
CHANNEL

PLUS OR MINUS

COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT O CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION O MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE

XPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

GENERAL INFORMATION



DWG. DRAWING

EXIST. EXISTING

DIMENSION

DOOR

EQUAL

ELEVATION

EXPANSION

EXTERIOR

FLOOR DRAIN

FIRE EXTINGUISHER

FINISH / FINISHED

CONDITIONING

EACH

F.E.C. FIRE EXTINGUISHER

FLOOR

F.O. FACE OF

GYP. GYPSUM

GA. GAUGE

GALV. GALVANIZED

H.P. HIGH POINT

FLR.

C.J. CONTROL JOINT

CONT. CONTINUE / CONTINUOUS HR. HOUR

CONC. CONCRETE

CORR. CORRIDOR

CONTR. CONTRACTOR

COL. COLUMN

DIA. DIAMETER

DTL. DETAIL

ELEC. ELECTRIC / ELECTRICAL MAX. MAXIMUM

G.C. GENERAL CONTRACTOR OPG. OPENING

HVAC HEAT, VENTILATION, AIR- PR. PAIR

HORIZ. HORIZONTAL

INCAND.

JAN. JANITOR

LBS. POUNDS

LAM. LAMINATE

L.P. LOW POINT

MTL. METAL

MIN. MINIMUM

MIRR. MIRRORED

MTD. MOUNTED

MFR. MANUFACTURER /

M.O. MASONRY OPENING

MISC. MISCELLANEOUS

N.I.C. NOT IN CONTRACT

O.D. OUTSIDE DIAMETER

MECH. MECHANICAL

N.T.S. NOT TO SCALE

O.C. ON CENTER

OPP. OPPOSITE

P.F. PANEL FACE

P.T. PRESSURE TREATED

MANUFACTURED

JT. JOINT

HEIGHT

INSIDE DIAMETER

INSUL. INSULATION / INSULATING R RISER

PL. LAM PLASTIC LAMINATE

R.O. ROUGH OPENING

REV. REVISED / REVISION

R.W.C. RAIN WATER CONDUCTOR V.C.T. VINYL COMPOSITION

QTY. QUANTITY

INCANDESCENT REINF. REINFORCING / REINFORCED

REQ. REQUIRED

REFL. REFLECTED

REC. RECESSED

S.S. STAINLESS STEEL

RAD. RADIUS

SIM. SIMILAR

SQ. SQUARE

SAN. SANITARY

STD. STANDARD

SPEC. SPECIFICATION

TEL. TELEPHONE

T.O.W. TOP OF WALL

T.O. TOP OF

TOIL. TOILET

TYP. TYPICAL

THK. THICK

P.C. PLUMBING CONTRACTOR T.S.G. TEMPERED SAFETY

TMP. TEMPERED

U.O.N. UNLESS OTHERWISE

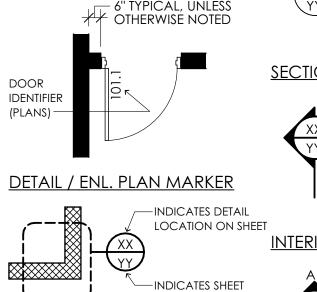
NOTED

STL. STEEL

KEYPLAN

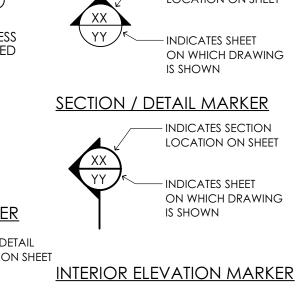
GRAPHIC SYMBOLS KEYNOTE; SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT ALTERNATE KEYNOTE: SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT **ROOM DESIGNATION OFFICE**← ROOM NAME 101 ← ROOM NUMBER 1/A-401 ← ENLARGED PLAN REFERENCE WALL TYPE MARKER (SEE PARTITION LEGEND) WINDOW MARKER (0) SKYLIGHT MARKER 1

DOOR IDENTIFIERS DOOR IDENTIFIER $(ELEVATIONS/SECTIONS) \rightarrow (101.1)$ - 6" TYPICAL, UNLESS THERWISE NOTED IDENTIFIER (PLANS) —



ON WHICH DETAIL

is shown



- INDICATES ELEVATION LOCATION ON SHEET ON WHICH DRAWING ON WHICH DRAWING

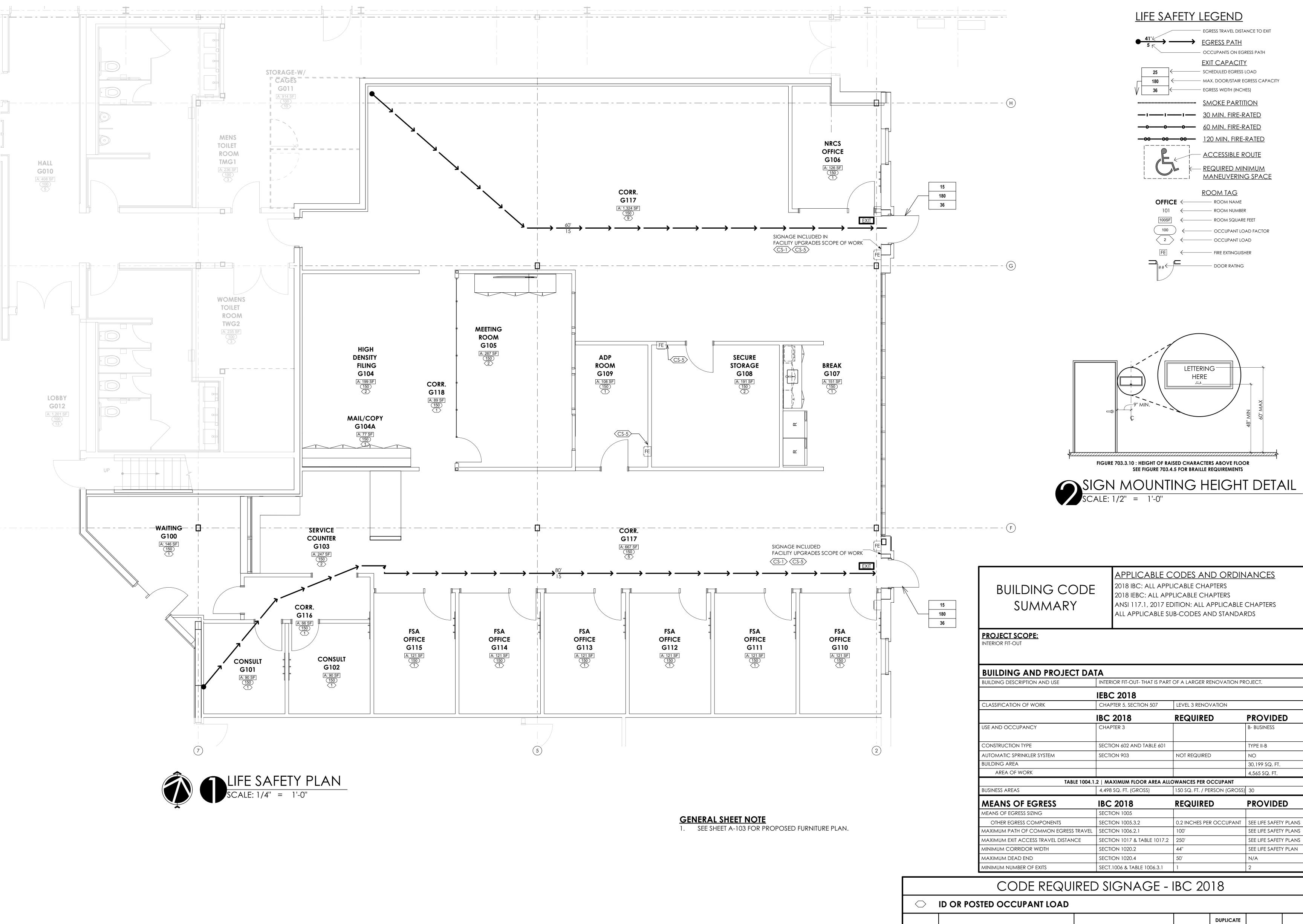
INDICATES ELEVATION LOCATION ON SHEET - INDICATES SHEET

ON WHICH ELEVATION

IS SHOWN

CURRENT REVISION ISSUE 2 REVISION No. 1 (REFERENCE ONLY)

ABBREVIATIONS WITH DISABILITIES ACT ADJ. ADJUSTABLE A.o.R. AREA OF REFUGE ALUM. ALUMINUM ALT. ALTERNATE A.F.F. ABOVE FINISHED FLOOR E.C. ELECTRICAL CONTRACTOR LAV. LAVATORY AC. ACOUSTIC / ACOUSTICAL EL. ALUMINUM FACE APPX. APPROXIMATE / APPROXIMATELY BOARD BLK. BLOCK / BLOCKING BLDG. BUILDING B.O. BOTTOM OF B.O.S. BOTTOM OF STEEL CAB. CABINET C.C. CENTER-TO-CENTER CLG. CEILING CLOS. CLOSET C.M. CONSTRUCTION MANAGER FT. FEET / FOOT CMU CONCRETE MASONRY UNIT FLUOR. FLUORESCENT



0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 8:59 AM

MEANS OF EGRESS	IBC 2018	REQUIRED	PROVIDED
MEANS OF EGRESS SIZING	SECTION 1005		
OTHER EGRESS COMPONENTS	SECTION 1005.3.2	0.2 INCHES PER OCCUPANT	SEE LIFE SAFETY PLANS
MAXIMUM PATH OF COMMON EGRESS TRAVEL	SECTION 1006.2.1	100'	SEE LIFE SAFETY PLANS
MAXIMUM EXIT ACCESS TRAVEL DISTANCE	SECTION 1017 & TABLE 1017.2	250'	SEE LIFE SAFETY PLANS
MINIMUM CORRIDOR WIDTH	SECTION 1020.2	44"	SEE LIFE SAFETY PLAN
MAXIMUM DEAD END	SECTION 1020.4	50'	N/A
MINIMUM NUMBER OF EXITS	SECT.1006 & TABLE 1006.3.1	1	2

				DUPLICATE				
ID	SIGNAGE TEXT		SIZE	BRAILLE TEXT	TACTILE TEXT	ISA		
CS-1	EXIT/EXIT ACCESS (IN ADDITION TO ILLUMINATED SIGN)	IBC SECTION 1013	4"x6"	YES	YES	YES		
CS-4	TOILET ROOM (MENS/WOMENS/UNISEX)	IBC SECTION 2902.4	6"x9"	YES	YES	NO		
CS-5	FIRE EXTINGUISHER	IFC SECTION 906.6	3"x6"	YES	YES	NO		
GENERAL SIGNAGE NOTES THE RESULTED A COESCIPILITY SIGNAGE SHALL FOLLOW/THE INTERNATIONAL SYMPOLOGY A COESCIPILITY IN SIZE COLOR PROPORTIONS, AND TEXT (TACTILE AND REALIF								

. ALL REQUIRED ACCESSIBILITY SIGNAGE SHALL FOLLOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN SIZE, COLOR, PROPORTIONS, AND TEXT (TACTILE AND BRAILE TEXT REQUIREMENTS).

2. ALL SIGNAGE SHALL FOLLOW IBC 2018, ICC A117.1-2009, AND 2010 ADA STANDARDS/REQUIREMENTS. 3. GENERAL CONTRACTOR SHALL VERIFY SIGNAGE QUANTITIES.

4. REFER TO LIFE SAFETY PLANS ON FOR SIGNAGE LOCATIONS. GENERAL CONTRACTOR SHALL VERIFY/CONFIRM FINAL LOCATIONS OF ALL SIGNS WITH AUTHORITY HAVING JURISDICTION. . SIGNAGE FOR RATED BARRIERS SHALL BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL OR PARTITION AND SPACED AT INTERVALS NOT EXCEEDING 30 FEET

ALONG THE WALL OR PARTITION. THE LETTERING SHALL NOT BE LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR.

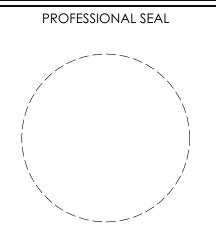
ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS

PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION 55 BERKSHIRE BLVD., SUITE 10 WYOMISSING, PA 19610

> PROJECT #: 22-0012

610.376.4927

www.MG-Architects.com



JIM A. SARRO AIA, LEED AP BD+C JIMS@MG-Architects.com

COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

ISSUED DATE: ISSUED 8/17/23

PROJ. MGR.: JIM SARRO P.M. e-MAIL: JIMS@MG-Architects.com DRAWN BY: DK, SG, BB, JS CLIENT PROJ #: -

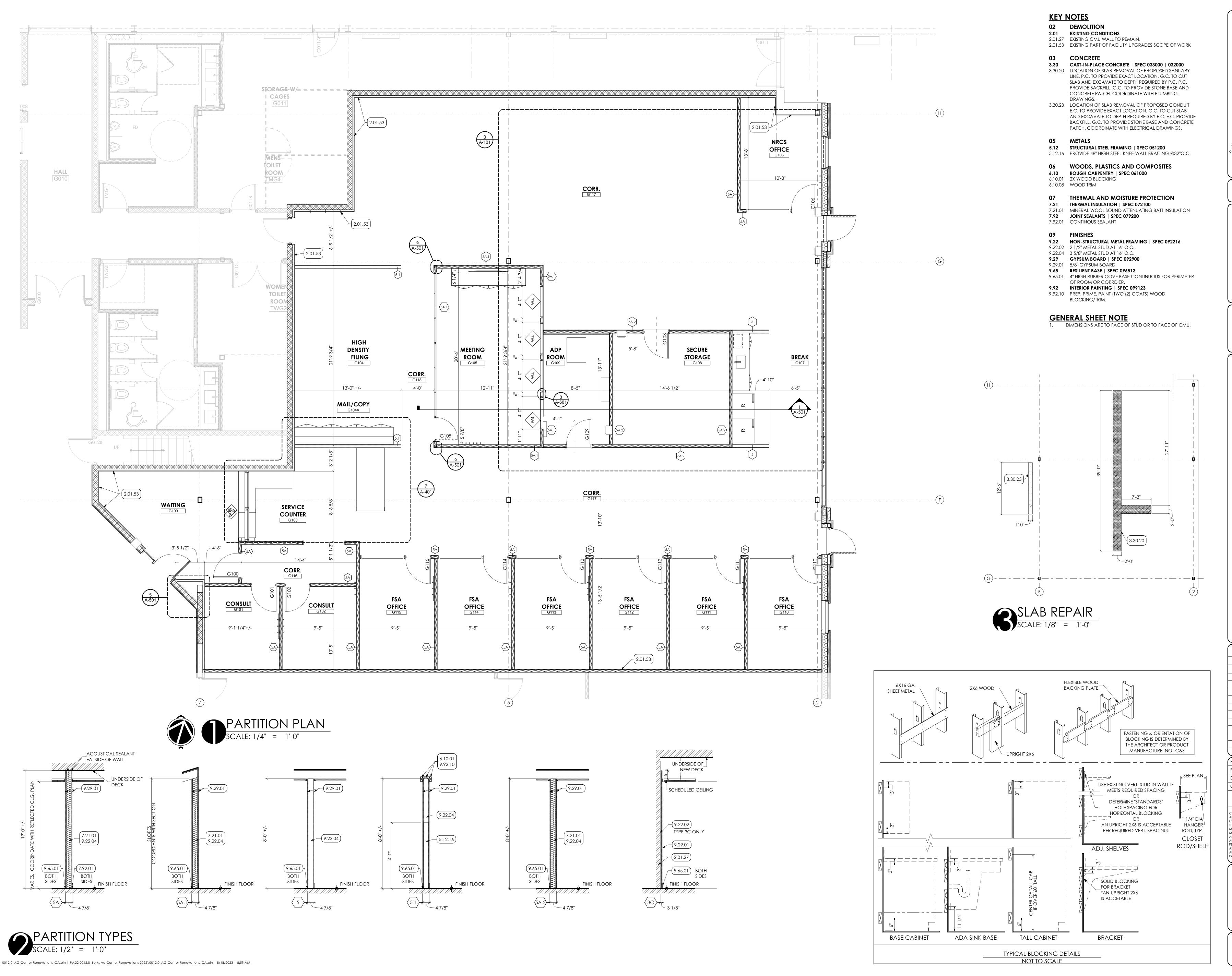
VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

OPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE

EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD. SHEET TITLE:

LIFE SAFETY PLAN



ESTABLISHED 1920

ARCHITECTURAL DESIGN
INTERIOR DESIGN
CODE ANALYSIS
PLANNING SERVICES
REPORTS AND STUDIES
ENGINEERING SERVICES
HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

PROJECT #: 22-0012

PROFESSIONAL SEAL

JIM A. SARRO AIA, LEED AP BD+C
JIMS@MG-Architects.com

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS
633 COURT STREET
READING, PA 19601
610.478.6201 X6220

RLEVENGOOD@CountyOfBerks.gov

SDA FIT-OUT

ISSUED

DATE: ISSUED 8/17/23

ID DESCRIPTION DATE

PROJ. MGR.: JIM SARRO

P.M. e-MAIL: JIMS@MG-Architects.com

DRAWN BY: DK, SG, BB, JS

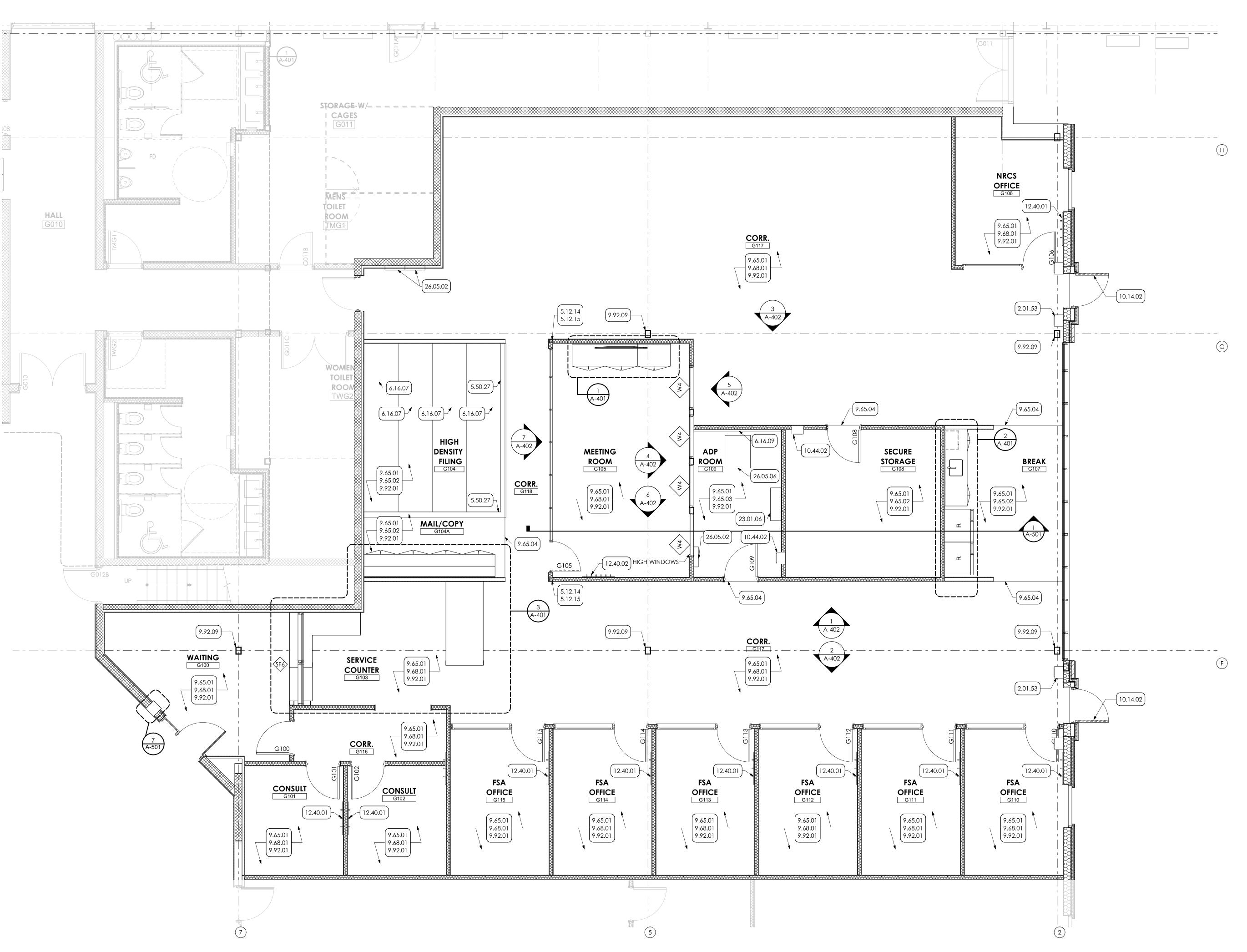
CLIENT PROJ #: -

ANY PART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED, COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT TO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS, LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

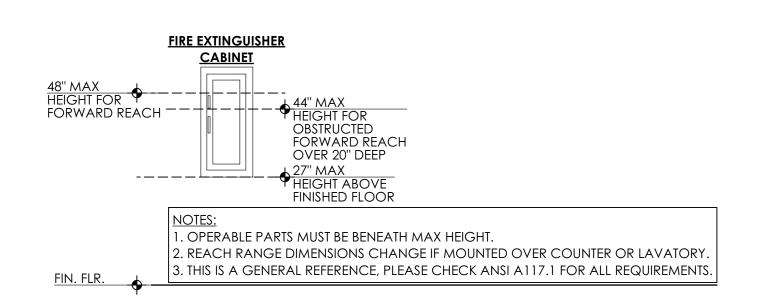
SHEET TITLE:

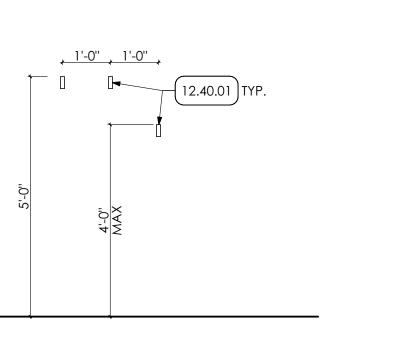
PARTITION PLAN

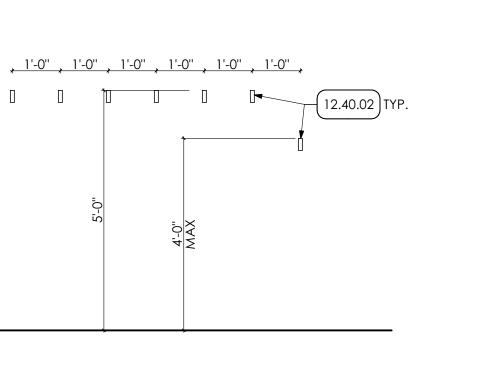
A-101





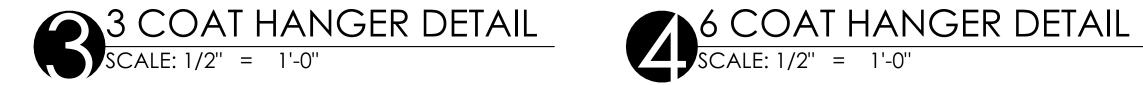








0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 8:59 AM





KEY NOTES

02 DEMOLITION

2.01 EXISTING CONDITIONS 2.01.53 EXISTING PART OF FACILITY UPGRADES SCOPE OF WORK

METALS

5.12 STRUCTURAL STEEL FRAMING | SPEC 051200 5.12.14 HSS 3 1/2X 21/2X1/4 POST WITHIN STUD WALL- BASE PLATE WILL BE 1/2" THICK, AND ARRGANGED TO FIT WITHIN WALL. ATTACH BASE PLATE TO EXISTING SLAB MINIMUM (2) 5/8"

DIA. EXP. BOLTS. 5.12.15 CONNECT STUDS ADJACENT TO POST WITH 1/4" SELF

TAPPING SCREWS @12" O.C. VERTICAL. 5.50 METAL FABRICATIONS | SPEC 055000 I SPEC 055213 5.50.27 1" METAL RAMP

WOODS, PLASTICS AND COMPOSITES

6.16 SHEATHING | SPEC 061600 6.16.07 1" PLYWOOD SHEATHING BETWEEN HIGH DENSITY FILING'S

6.16.09 3/4" FIRE RATED PLYWOOD SHEATHING FIRE RATED

FINISHES

RESILIENT BASE | SPEC 096513 9.65.01 4" HIGH RUBBER COVE BASE CONTINUOUS FOR PERIMETER OF ROOM OR CORRDIER.

9.65.02 PROVIDE LVT OVER HYDRAULIC CEMENT UNDERLAYMENT THROUGHT ENTIRE ROOM OR CORRIDOR. PREP SUBSTRATE AS REQUIRED PER MANUFACTURES RECCOMENDATIONS. 9.65.03 PROVIDE STATIC CONTROL TILE OVER MANUFACTURES

REQUIRED UNDERLAYLAYMENT, INCLUDING COPPER STRIP THROUGH ENTIRE ROOM. PREP SUBSTRATE AS REQUIRED PER MANUFACTURES RECCOMENDATIONS.

9.65.04 RUBBER TRANSITION STRIP

9.68 CARPETING | SPEC 096800 I 035416 9.68.01 PROVIDE CARPET TILE OVER HYDRAULIC CEMENT UNDERLAMENT THROUGHT ROOM OR CORRIDOR. PREP SUBSTRATE AS REQUIRED PER MANUFACTURE RECCOMENDATIONS.

9.92 INTERIOR PAINTING | SPEC 099123

9.92.01 PREP, PRIME, PAINT (TWO (2) COATS) ALL WALLS IN ROOM, UNLESS SPECFIC WALLS NOTED OTHERWISE. PAINT ENITRE WALL, INCLUDING EXPSOED CONDUIT, FROM FLOOR TO 4" ABOVE NEW CEILING GRID OR TO ROOF DECK IN AREAS OF OPEN CEILINGS.

9.92.09 PREP, PRIME, PAINT (TWO (2) COATS) ENTIRE COLUMN/ STUD/ BRACING EXPOSED ANCHORS, AND ACCESSORIES.

SPECIALTIES

10.14 SIGNAGE 10.14.02 VINYL SIGNAGE ON DOOR. SIGN TO READ "EMERGENCY EXIT ONLY".

10.44 FIRE PROTECTION SPECIALTIES | SPEC 104400 10.44.02 RECESSED FIRE EXTINGUISHER WITH FIRE PROTECTION CABINET

12 FURNISHINGS

12.40 FURNISHINGS AND ACCESSORIES 12.40.01 THREE METAL COAT HANGERS. BASIS OF DESIGN: HAFEKE

SINGLE ROBE HOOK. 12.40.02 SIX METAL COAT HANGERS. BASIS OF DESIGN: HAFEKE SINGLE ROBE HOOK.

23 HVAC | BY H.C.

WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBLITY OF THE H.C. UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL DRAWING. 23.01 ROOF TOP UNITS

23.01.06 EVAPORATOR UNIT

ELECTRICAL | BY E.C. WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBLITY OF THE E.C. UNLESS NOTED OTHERWISE. COORDINATE WITH

ELECTRICAL DRAWING. 26.05 COMMON WORK RESULTS FOR ELECTRICAL

26.05.02 NEW ELECTRICAL PANELS.

26.05.06 POWER/DATA CABINET COORINDATE WITH ELECTRICAL DRAWINGS.



ARCHITECTURAL DESIGN

INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 10 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

PROJECT #:

22-0012



JIM A. SARRO AIA, LEED AP BD+C JIMS@MG-Architects.com

COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601

610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

ISSUED DATE: ISSUED 8/17/23

PROJ. MGR.: JIM SARRO

CLIENT PROJ #: -VERIFY SCALE 0

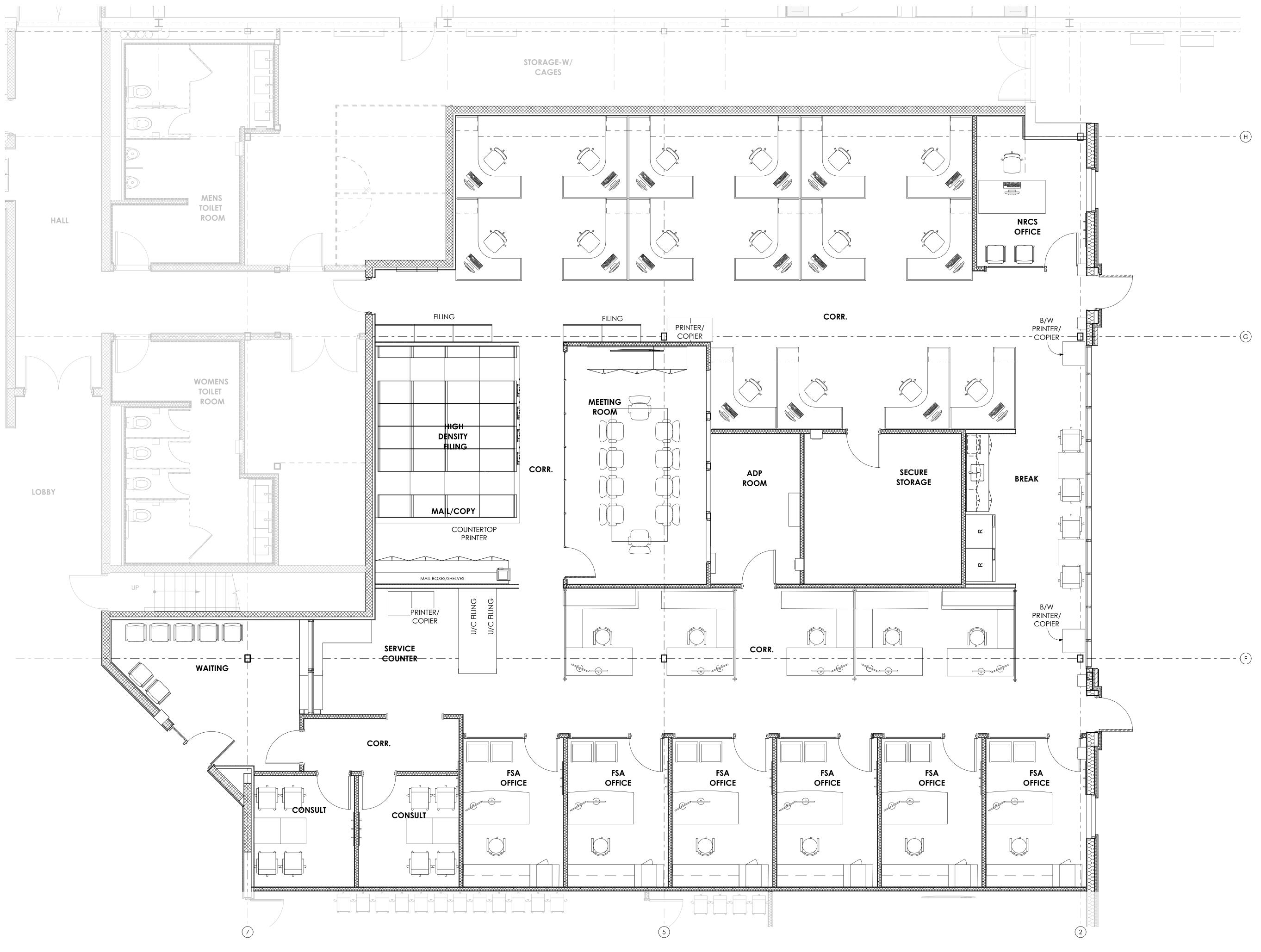
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

P.M. e-MAIL: JIMS@MG-Architects.com

DRAWN BY: DK, SG, BB, JS

COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION C MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

KEYNOTE PLAN





0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 8:59 AM

GENERAL SHEET NOTE

 THIS PLAN IS BEING PROVIDED FOR REFERENCE ONLY. FURNITURE TO BE PROVIDED AND INSTALLED BY TENANT.
 FINAL POWER AND DATA CONNECTIONS OF SYSTEM FURNITURE BY E.C.



CODE ANALYSIS
PLANNING SERVICES
REPORTS AND STUDIES
ENGINEERING SERVICES
HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101

WYOMISSING, PA 19610

610.376.4927

www.MG-Architects.com

PROJECT #: 22-0012

PROFESSIONAL SEAL

JIM A. SARRO AIA, LEED AP BD+C
JIMS@MG-Architects.com

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS
633 COURT STREET
READING, PA 19601
610.478.6201 X6220

RLEVENGOOD@CountyOfBerks.gov

GRICULTURAL CENTER

FIT-OUT

USDA FIT-OUT

ISSUED

DATE: ISSUED 8/17/23

ID DESCRIPTION DATE

PROJ. MGR.: JIM SARRO

P.M. e-MAIL: JIMS@MG-Architects.com

DRAWN BY: DK, SG, BB, JS

CLIENT PROJ #: -

0 VERIFY SCALE

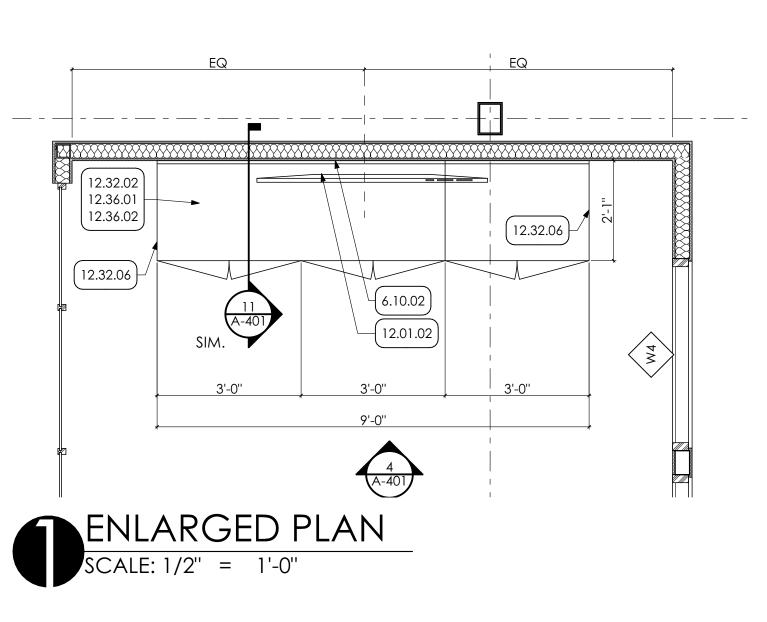
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

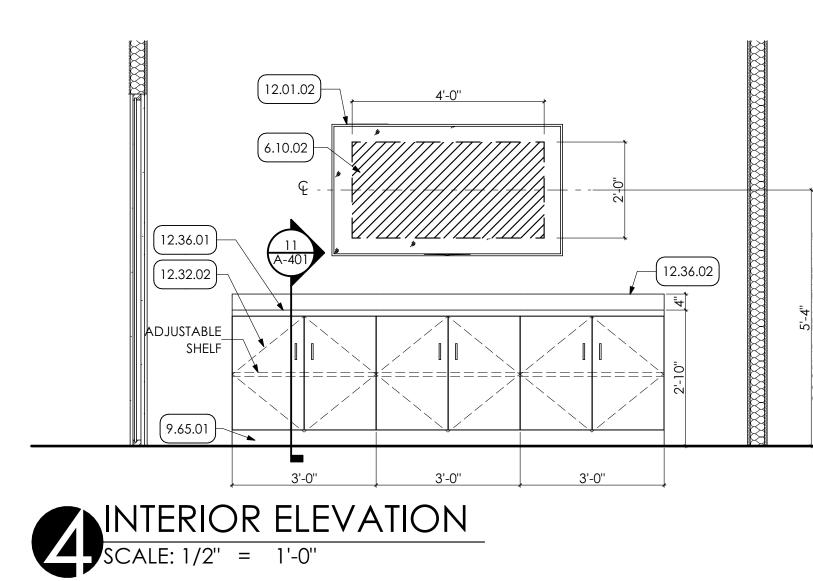
COPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR ANY PART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED, COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT TO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

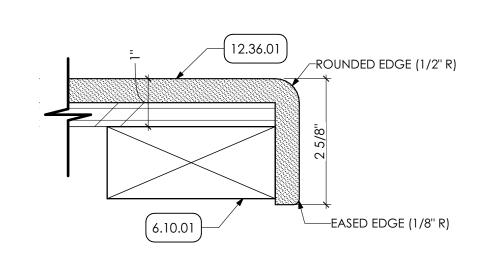
SHEET TITLE:

FURNITURE PLAN

A-103







1'-0" CABINET

SCHEDULED

PARTITION

6.10.01 WHERE REQUIRED

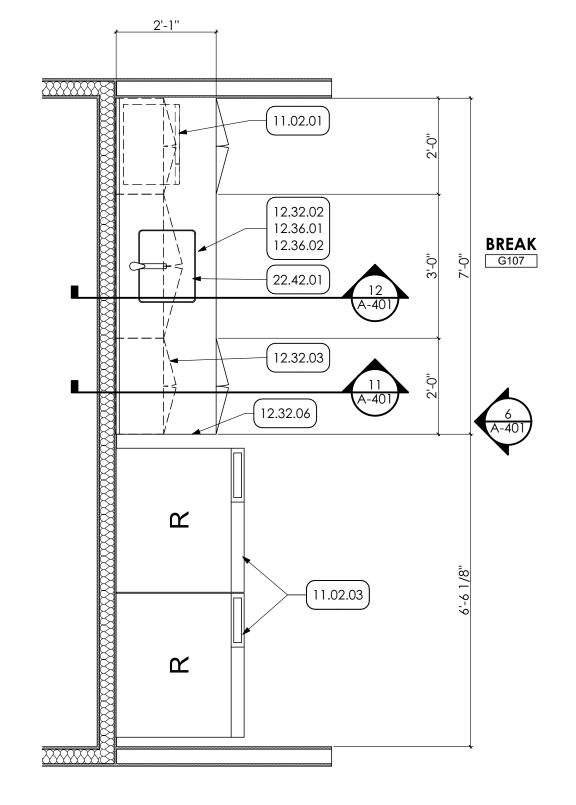
SCHEDULED

PARTITION

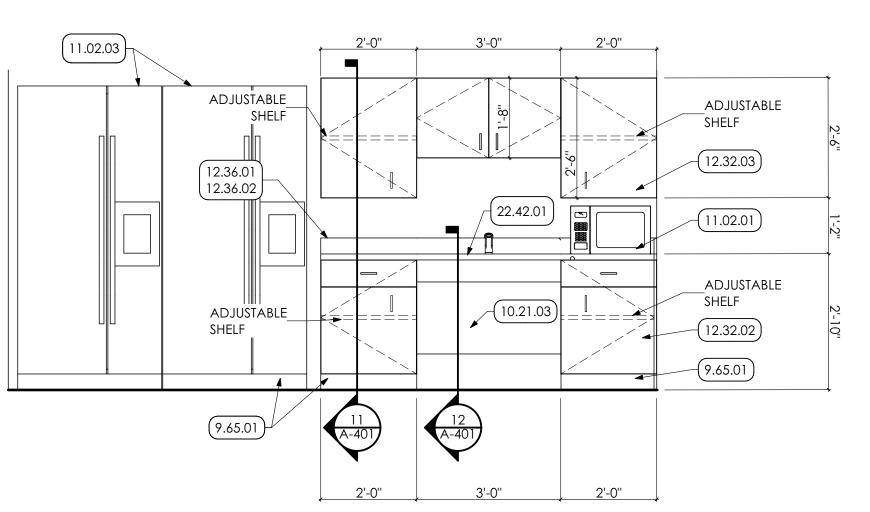
(6.10.01) WHERE REQUIRED



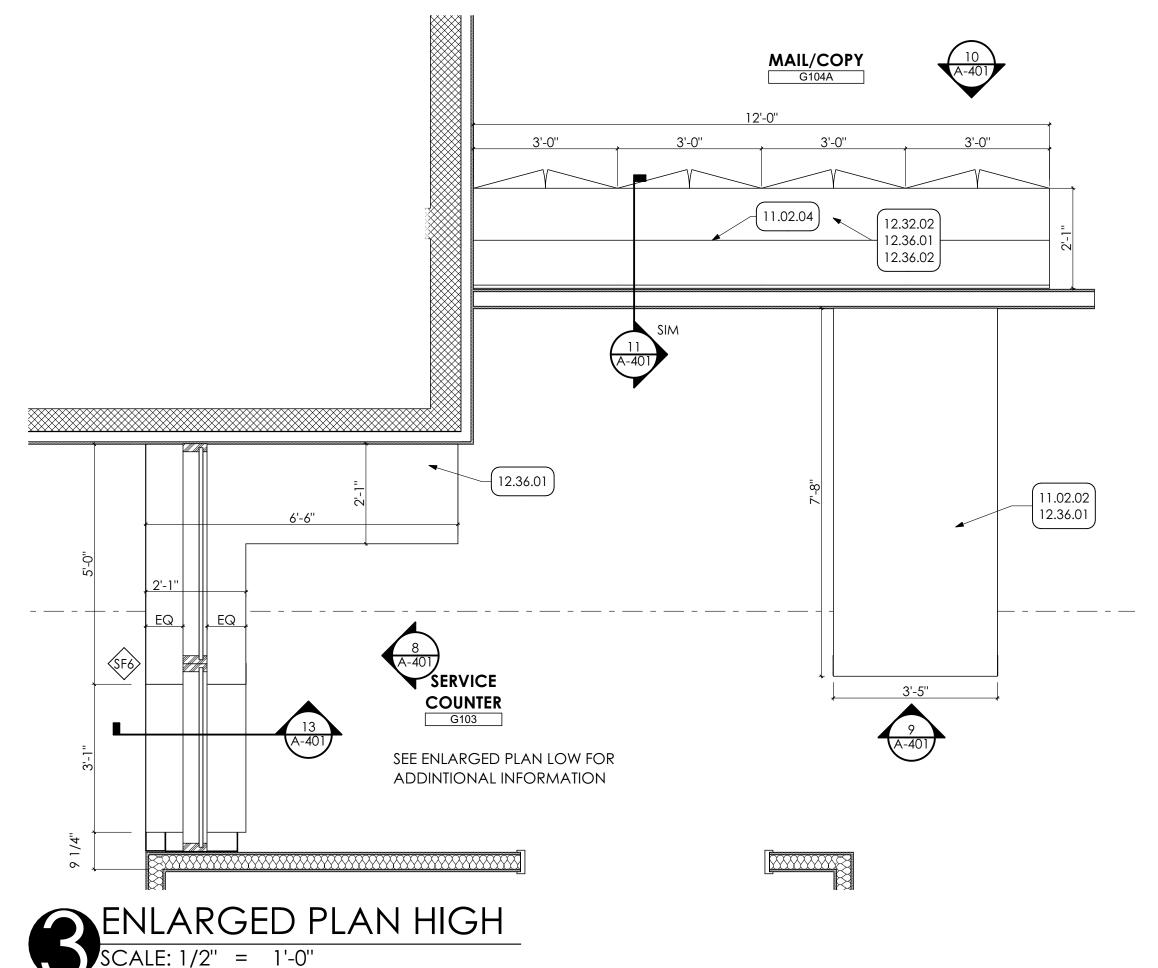
0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 9:00 AM

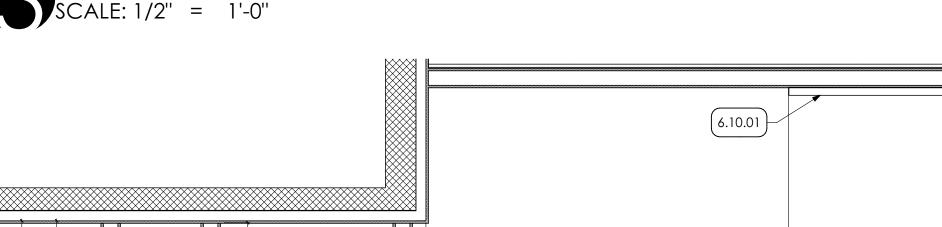


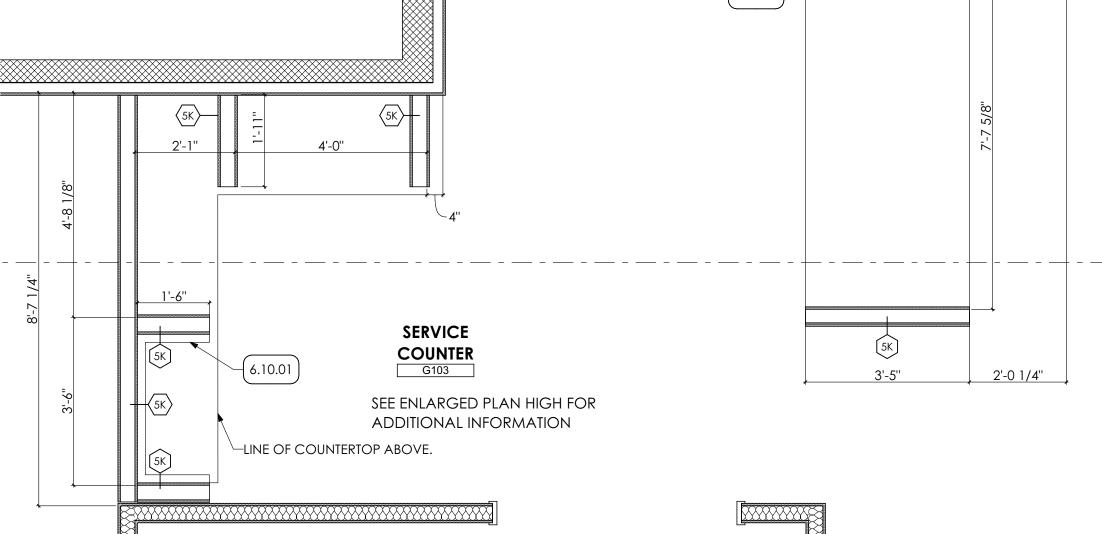












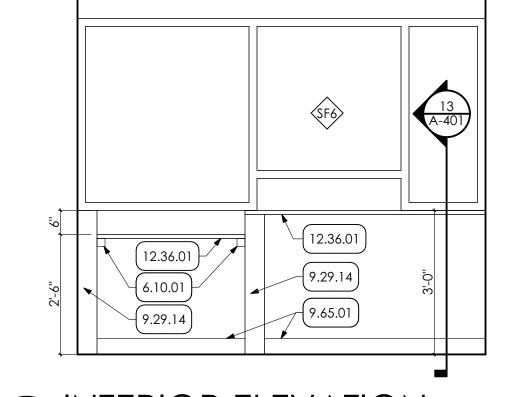


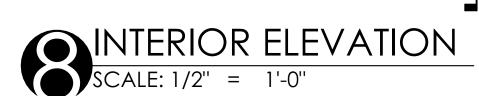
_SCHEDULED WINDOW

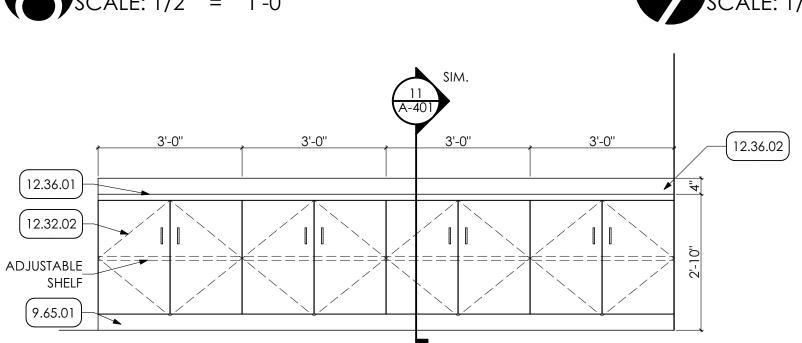
6.10.01

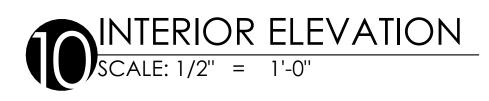
(9.92.01)

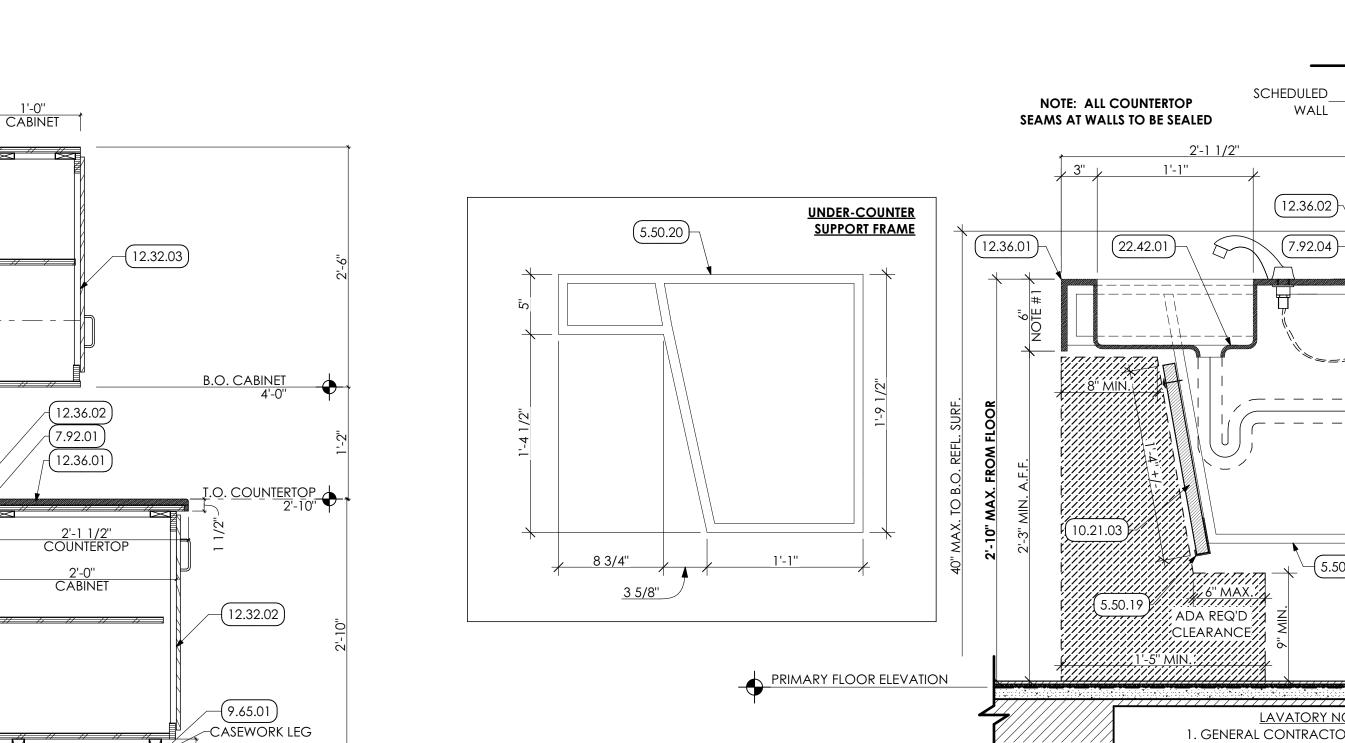
9.65.01

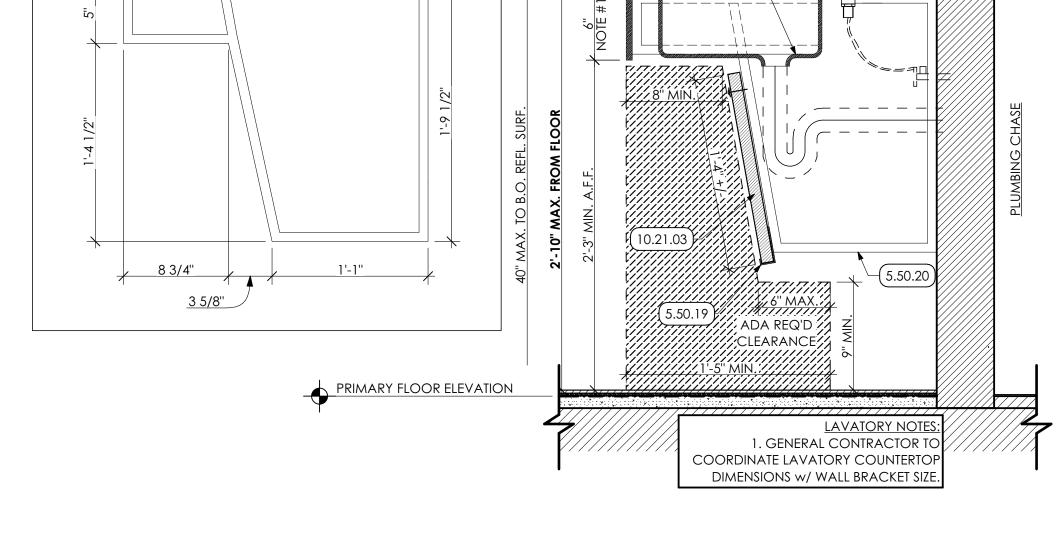
















9.92.01

9.65.01

KEY NOTES

05 METALS 5.50 METAL FABRICATIONS | SPEC 055000 | SPEC 055213 5.50.19 12ga. CONTINUOUS ALUMINUM J-CHANNEL ATTACHED TO

UNDER COUNTER SUPPORTS. SIZE TO ACCEPT 1" HDPE 5.50.20 14ga. GALVANIZED STEEL COUNTERTOP SUPPORT. FABRICATE FROM 2" WIDE 14ga. STEEL CHANNELS AND SECURELY BOLT (THREE LOCATIONS, EACH SUPPORT) TO STUDS OR BLOCKING IN WALL FRAME. PRIOR TO

FABRICATION, COORDINATE FINAL DIMENSIONS W/ LAVATORY COUNTERTOP FABRICATOR AND IN-FIELD CONDITIONS. SUPPORT FRAME TO CONFORM TO ANSI 117.1 DIMENSIONAL REQUIREMENTS.

WOODS, PLASTICS AND COMPOSITES 6.10 ROUGH CARPENTRY | SPEC 061000

6.10.01 2X WOOD BLOCKING

6.10.02 3/4" PLYWOOD BACKER PANEL FOR TV MOUNTING BRACKET.

THERMAL AND MOISTURE PROTECTION 7.92 JOINT SEALANTS | SPEC 079200

7.92.01 CONTINOUS SEALANT 7.92.04 CONTINOUS SEALANT WITH BACKER ROD

09 FINISHES

9.29 GYPSUM BOARD | SPEC 092900

9.29.14 WRAP GYPSUM BOARD AT WALL ENDS. 9.65 RESILIENT BASE | SPEC 096513

9.65.01 4" HIGH RUBBER COVE BASE CONTINUOUS FOR PERIMETER OF ROOM OR CORRDIER.

9.92 INTERIOR PAINTING | SPEC 099123 9.92.01 PREP, PRIME, PAINT (TWO (2) COATS) ALL WALLS IN ROOM, UNLESS SPECFIC WALLS NOTED OTHERWISE. PAINT ENITRE WALL, INCLUDING EXPSOED CONDUIT, FROM FLOOR TO 4"

OF OPEN CEILINGS. 9.92.10 PREP, PRIME, PAINT (TWO (2) COATS) WOOD

10 SPECIALTIES

10.21 PHENOLIC-CORE TOILET COMPARTMENTS | SPEC

10.21.03 1'-4" x 1" THICK HDPE PANEL SCREWED TO FACE OF UNDER COUNTER MOUNTING BRACKETS AND SET IN CONTINUOUS ALUMINUM J-CHANNEL. PROVIDE CONTINUOUS PANEL ALONG UNDERSIDE OF LAV COUNTER. PROVIDE STAINLESS STEEL SECURITY FASTENERS AND WASHERS AT EACH COUNTER SUPPORT.

11 EQUIPMENT

11.02 EQUIPMENT I BY TENANT

11.02.01 MICROWAVE UNIT, BY TENANT.

11.02.02 FLAT FILES, TWO (2) UNITS STACKED, PROVIDED BY TENANT. 11.02.03 REFRIGERATOR, PROVIDED BY TENANT.

11.02.04 MAILBOX BY TENANT.

12 FURNISHINGS 12.01 AV EQUIPMENT

12.01.02 WALL MOUNTED TELEVISION AND BRACKET PROVIDED BY

AND INSTALLED BY TENANT 12.32 MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK I

SPEC 123216 12.32.02 MANUFACTURED BASE CABINET.

12.32.03 MANUFACTURED WALL CABINET

12.32.06 FINISHED END PANEL.

12.36 QUARTZ AGGLOMERATE COUNTERTOPS | SPEC 123661.19 12.36.01 2 CM QUARTZ COUNTERTOP ON 3/4" PLYWOOD BACKER. 12.36.02 2CM QUARTZ BACKSPLASH FOR LENGTH OF COUNTERTOP AND ADJACENT SIDEWALLS; 4" TYPICAL HEIGHT UNLESS

PLUMBING | BY P.C.

WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBLITY OF THE P.C. UNLESS NOTED OTHERWISE. COORDINATE WITH

22.42 COMMERCIAL PLUMBING FIXTURES 22.42.01 NEW ADA COMPLIANT INTEGRAL BOWL SINK BY G.C.

9.65.01

INTERIOR ELEVATION

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

PROJ. MGR.: JIM SARRO DRAWN BY: DK, SG, BB, JS

COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION C MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTE permission and consent of muhlenberg greeni ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE

A-401



ABOVE NEW CEILING GRID OR TO ROOF DECK IN AREAS BLOCKING/TRIM.

> JIMS@MG-Architects.com COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET

JIM A. SARRO AIA, LEED AP BD+C

READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

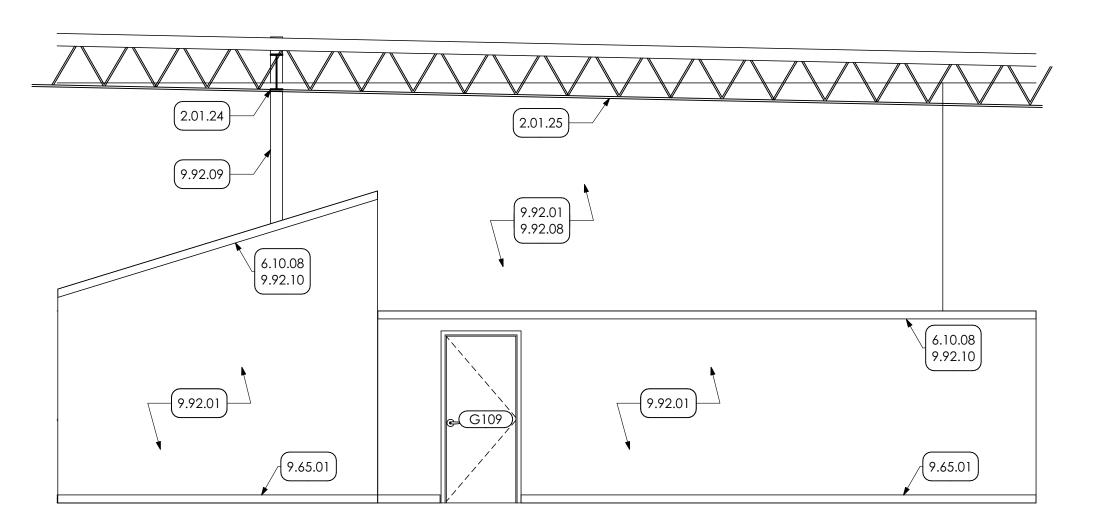
ISSUED DATE: ISSUED 8/17/23

P.M. e-MAIL: JIMS@MG-Architects.com CLIENT PROJ #:

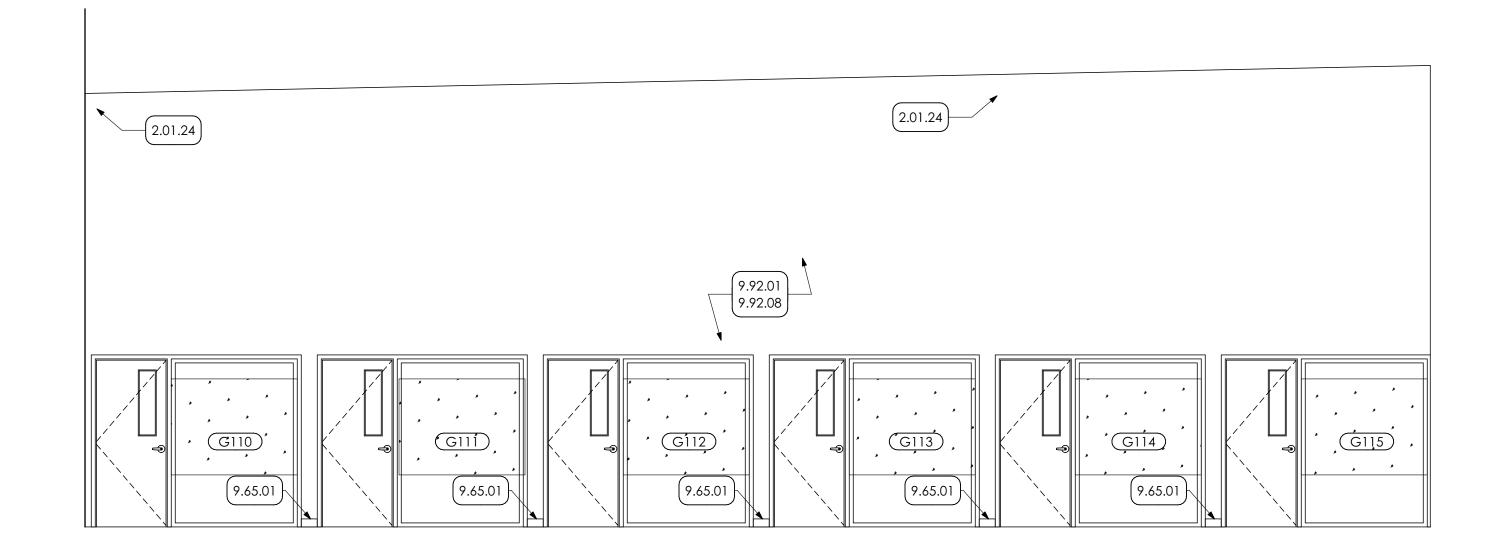
VERIFY SCALE 0 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWIN

XPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD

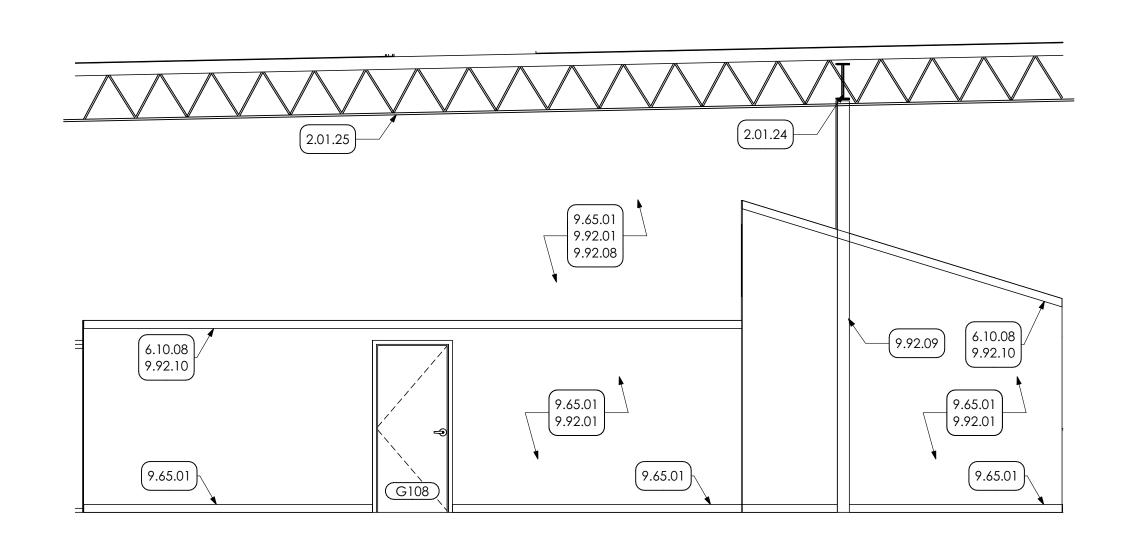
ENLARGED PLAN

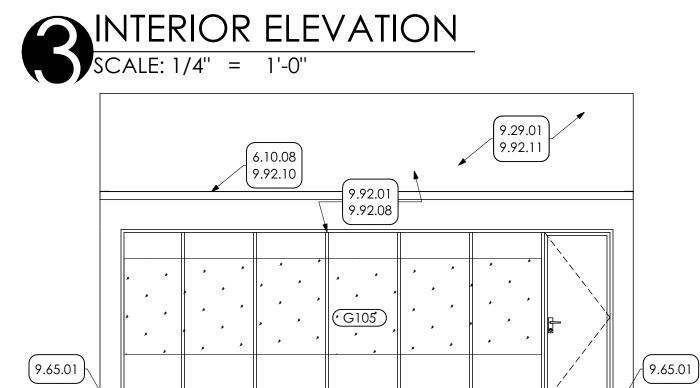




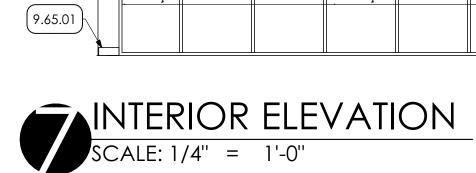


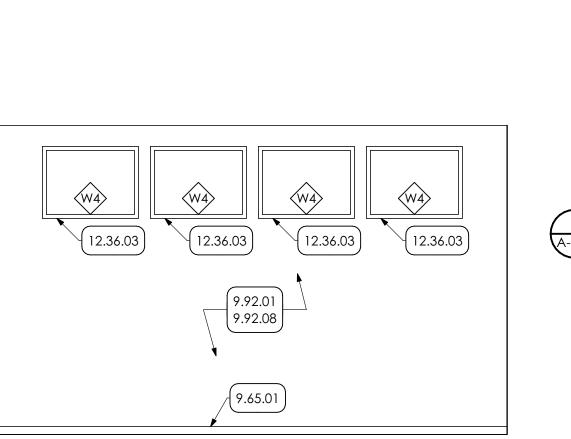


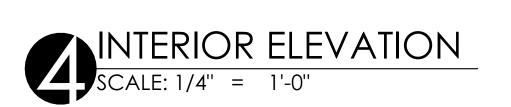


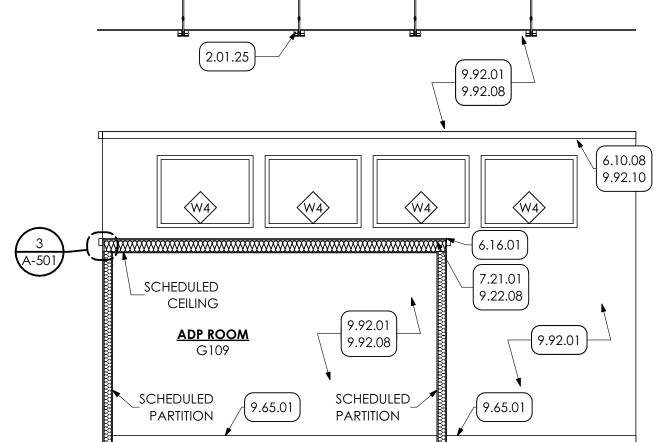


0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 9:00 AM

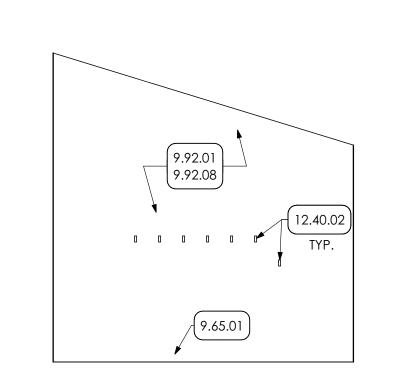














KEY NOTES

DEMOLITION
2.01 EXISTING CONDITIONS
2.01.24 EXISTING BEAM TO REMAIN.
2.01.25 EXISTING JOIST TO REMAIN.

06 WOODS, PLASTICS AND COMPOSITES
6.10 ROUGH CARPENTRY | SPEC 061000

6.10 ROUGH CARPENTRY | SPEC 061000 6.10.08 WOOD TRIM 6.16 SHEATHING | SPEC 061600

6.16.01 3/4" PLYWOOD SHEATHING

7.21 THERMAL INSULATION | SPEC 072100

7.21 THERMAL INSULATION | SPEC 072100
7.21.01 MINERAL WOOL SOUND ATTENUATING BATT INSULATION

69 FINISHES9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092216

9.22.08 6" METAL STUDS AT 16" O.C.

9.29 GYPSUM BOARD | SPEC 092900

9.29 GYPSUM BOARD | SPEC 9.29.01 5/8" GYPSUM BOARD 9.45 PESILIENT RASE | SPEC OF

9.65 RESILIENT BASE | SPEC 096513
9.65.01 4" HIGH RUBBER COVE BASE CONTINUOUS FOR PERIMETER OF ROOM OR CORRDIER.

9.92 INTERIOR PAINTING | SPEC 099123
9.92.01 PREP, PRIME, PAINT (TWO (2) COATS) ALL WALLS IN ROOM,
UNLESS SPECFIC WALLS NOTED OTHERWISE. PAINT ENITRE
WALL, INCLUDING EXPSOED CONDUIT, FROM FLOOR TO 4"
ABOVE NEW CEILING GRID OR TO ROOF DECK IN AREAS

OF OPEN CEILINGS.

9.92.08 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENITRE STRUCTURE, INCLUDING ALL STEEL JOISTS / BEAMS, EXPOSED ANCHORS, AND ACCESSORIES WITH DRYFALL PAINT, BY GC.

9.92.09 PREP, PRIME, PAINT (TWO (2) COATS) ENTIRE COLUMN/ STUD/ BRACING EXPOSED ANCHORS, AND ACCESSORIES.

9.92.10 PREP, PRIME, PAINT (TWO (2) COATS) WOOD BLOCKING/TRIM.

9.92.11 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENTIRE SURFACE OF GYPSUM BOARD CEILING.

12 FURNISHINGS

12.36.1 SOLID SURFACE COUNTERTOP I SPEC 123661.16
12.36.03 SOLID SURFACE WINDOW SILL FOR WIDTH OF OPENING.
12.40 FURNISHINGS AND ACCESSORIES

12.40.02 SIX METAL COAT HANGERS. BASIS OF DESIGN: HAFEKE SINGLE ROBE HOOK.

STABLISHED 1920

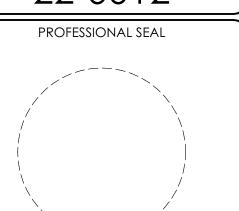
ARCHITECTURAL DESIGN
INTERIOR DESIGN
CODE ANALYSIS
PLANNING SERVICES
REPORTS AND STUDIES
ENGINEERING SERVICES

HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101
WYOMISSING, PA 19610
610.376.4927

PROJECT #: 22-0012

www.MG-Architects.com



JIM A. SARRO AIA, LEED AP BD+C
JIMS@MG-Architects.com

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS
633 COURT STREET
READING, PA 19601
610.478.6201 X6220
RLEVENGOOD@CountyOfBerks.gov

KS COUNTY AGRICULTURAL CENTER

USDA FIT-OUT

ISSUED								
	DATE: ISSUED 8/17/23							
ID	DESCRIPTION	DATE						

PROJ. MGR.: JIM SARRO

P.M. e-MAIL: JIMS@MG-Architects.com

DRAWN BY: DK, SG, BB, JS

CLIENT PROJ #: -

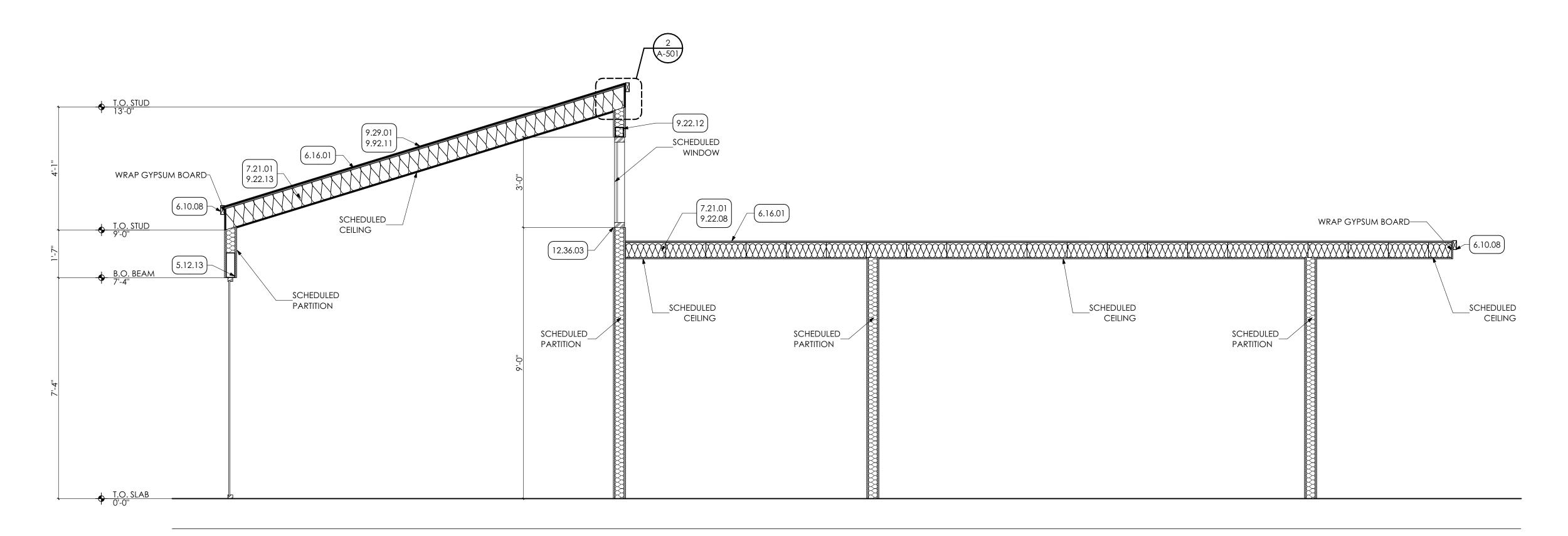
VERIFY SCALE

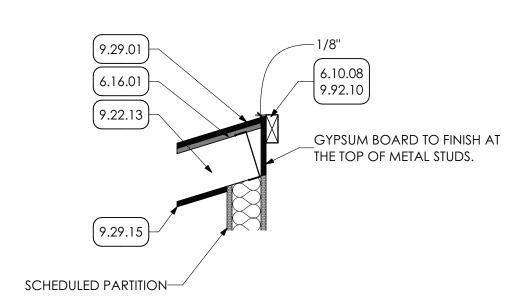
COPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR ANY PART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED, COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT TO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

LIEET TITLE

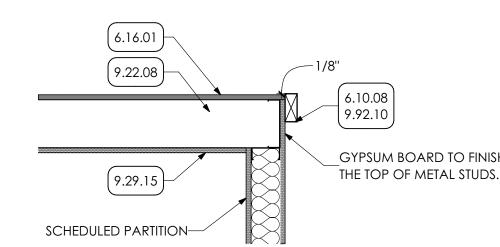
INTERIOR LEVATIONS

A-402



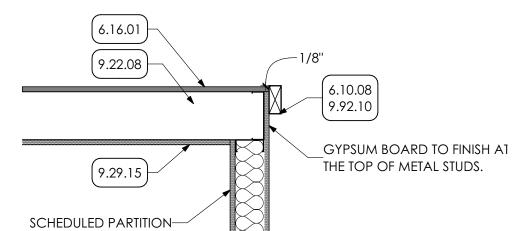














KEY NOTES

02 DEMOLITION 2.01 EXISTING CONDITIONS

2.01.53 EXISTING PART OF FACILITY UPGRADES SCOPE OF WORK

MASONRY

4.22 CMU MASONRY | SPEC 042000 4.20.02 MASONRY LINTEL FOR WIDTH OF OPENING. COORDINATE WITH STRUCTURAL DRAWINGS.

4.20.13 4" CMU

METALS 5.12 STRUCTURAL STEEL FRAMING | SPEC 051200 5.12.13 HSS 10X3X1/2" HEADER

5.12.14 HSS 3 1/2X 21/2X1/4 POST WITHIN STUD WALL- BASE PLATE WILL BE 1/2" THICK, AND ARRGANGED TO FIT WITHIN WALL. ATTACH BASE PLATE TO EXISTING SLAB MINIMUM (2) 5/8" DIA. EXP. BOLTS.

5.12.15 CONNECT STUDS ADJACENT TO POST WITH 1/4" SELF TAPPING SCREWS @12" O.C. VERTICAL. 5.50 METAL FABRICATIONS | SPEC 055000 | SPEC 055213

5.50.25 3/8" THICK METAL PLATE; PROVIDE 4" MIN. BEARING ON

WOODS, PLASTICS AND COMPOSITES 6.10 ROUGH CARPENTRY | SPEC 061000

6.10.08 WOOD TRIM 6.16 SHEATHING | SPEC 061600

6.16.01 3/4" PLYWOOD SHEATHING

THERMAL AND MOISTURE PROTECTION 7.21 THERMAL INSULATION | SPEC 072100 7.21.01 MINERAL WOOL SOUND ATTENUATING BATT INSULATION

7.92 JOINT SEALANTS | SPEC 079200 7.92.04 CONTINOUS SEALANT WITH BACKER ROD

9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092216 9.22.08 6" METAL STUDS AT 16" O.C. 9.22.12 METAL STUD BOX HEADER

9.22.13 8" METAL STUDS AT 16" O.C. 9.29 GYPSUM BOARD | SPEC 092900 9.29.01 5/8" GYPSUM BOARD

9.29.15 5/8" GYPSUM BOARD CEILING PAINTED AND ATTACHED TO UNDERSIDE OF STUD.

9.92 INTERIOR PAINTING | SPEC 099123 9.92.01 PREP, PRIME, PAINT (TWO (2) COATS) ALL WALLS IN ROOM, UNLESS SPECFIC WALLS NOTED OTHERWISE. PAINT ENITRE WALL, INCLUDING EXPSOED CONDUIT, FROM FLOOR TO 4"

OF OPEN CEILINGS. 9.92.10 PREP, PRIME, PAINT (TWO (2) COATS) WOOD BLOCKING/TRIM. 9.92.11 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENTIRE

ABOVE NEW CEILING GRID OR TO ROOF DECK IN AREAS

SURFACE OF GYPSUM BOARD CEILING.

11 EQUIPMENT 11.20 COMMERCIAL EQUIPMENT

11.20.01 THROUGH WALL PACKAGE DROP BOX (BASIS OF DESIGN: LOCKING SECURITY MAILBOX; (817) 602-8372; SIZE: 21"x14.5"x51.5")

12 FURNISHINGS 12.36.1 SOLID SURFACE COUNTERTOP I SPEC 123661.16

12.36.03 SOLID SURFACE WINDOW SILL FOR WIDTH OF OPENING.



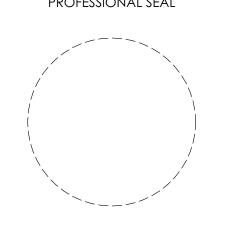
ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES

HISTORIC PRESERVATION 955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927

www.MG-Architects.com

PROJECT #: 22-0012

PROFESSIONAL SEAL



JIM A. SARRO AIA, LEED AP BD+C JIMS@MG-Architects.com

COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

ISSUED DATE: ISSUED 8/17/23

PROJ. MGR.: JIM SARRO P.M. e-MAIL: JIMS@MG-Architects.com DRAWN BY: DK, SG, BB, JS

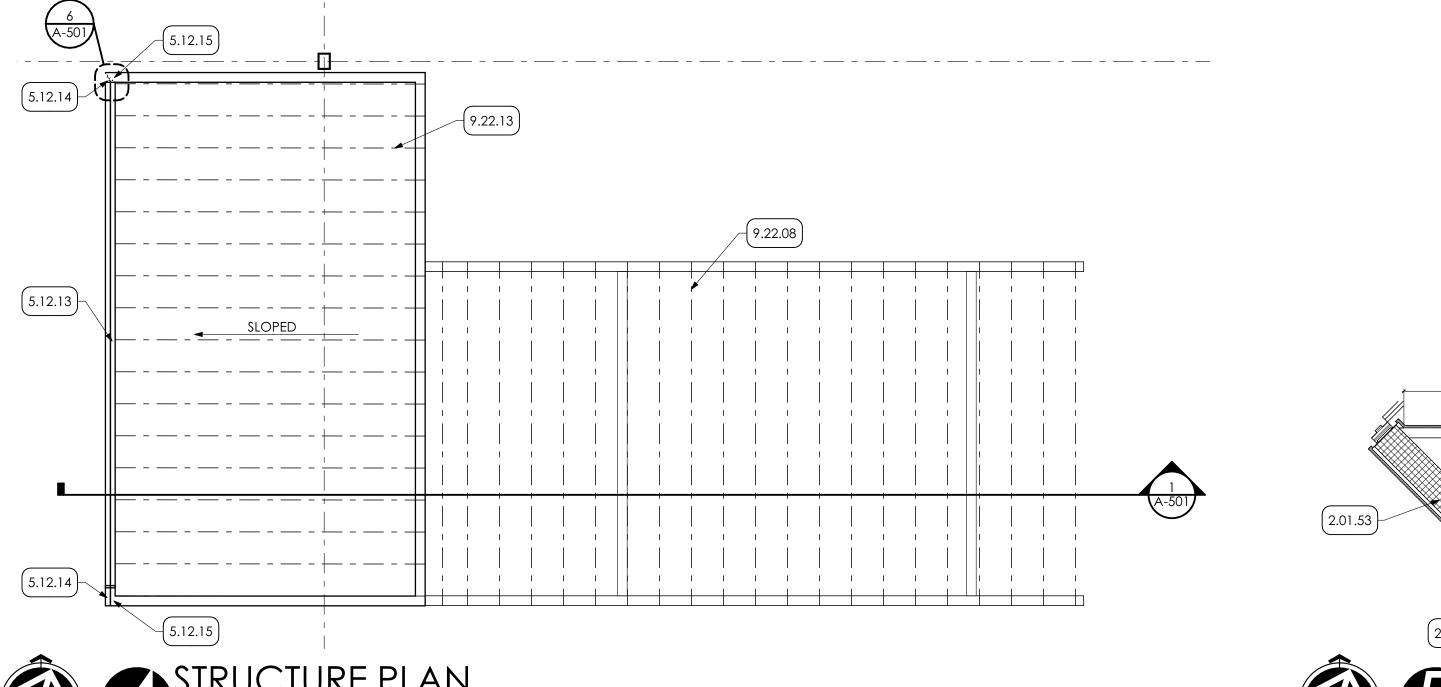
CLIENT PROJ #: -

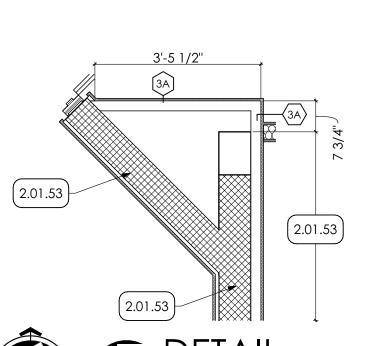
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

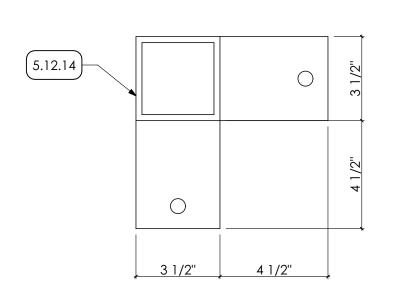
Copied or used in any form or manner except pursuant O CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION O MG ARCHITECTS,LTD, THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN any manner whatsoever, nor are they to be assigned to ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE

EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

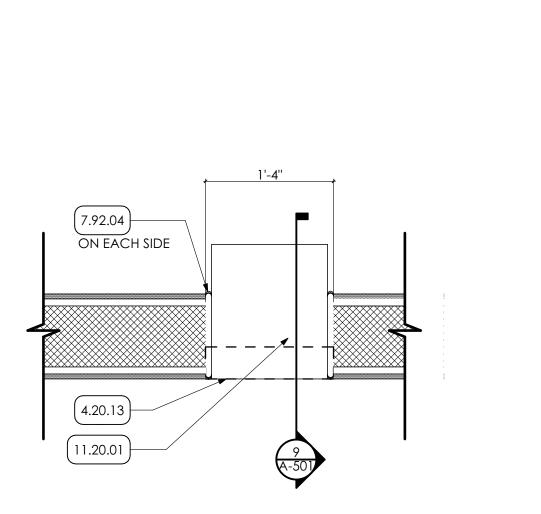
DETAILS









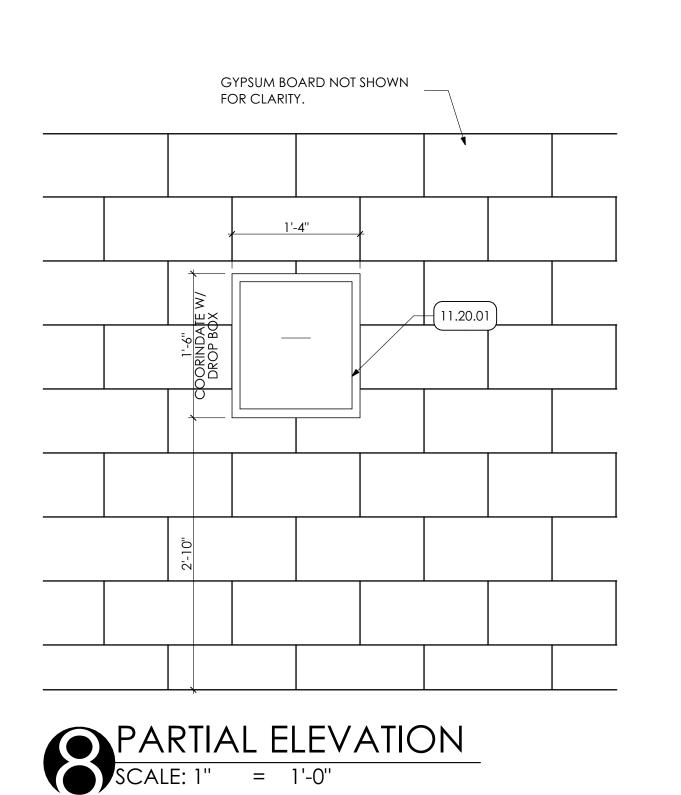


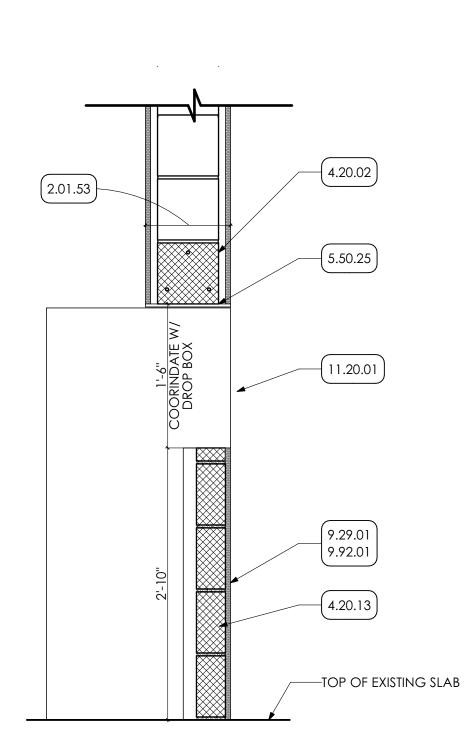
PACKAGE DROP BOX DETAIL

0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 9:00 AM

BUILDING SECTION

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







	DOOR AND FRAME SCHEDULE													
			F	PANEL					FRAME			HAR	DWARE	
ID	ROOM NAME				SIZE					DETAIL				NOTES
	ROOM NAME	EL	MATL	W	HT	THK	EL	MATL	HEAD	JAMB	SILL	SET NO	FIRE RTG.	
G100	WAITING	PA	SC/WD	3'-0''	7'-0''	1 3/4"	F2	НМ	1-601	1-601		11		
G101	CONSULT	PA	SC/WD	3'-0''	7'-0''	1 3/4"	F2	НМ	1-601	1-601		11		
G102	CONSULT	PA	SC/WD	3'-0''	7'-0''	1 3/4"	F2	НМ	1-601	1-601		11		
G105	MEETING ROOM	SFB	SC/WD	3'-0''	7'-0''	1 3/4"	SF5	AI/GL	2-601	2-601		12		
G106	NRCS OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		
G108	SECURE STORAGE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	F2	НМ	1-601	1-601		1		
G109	ADP ROOM	PA	SC/WD	3'-0''	7'-0''	1 3/4"	F2	НМ	1-601	1-601		1		
G110	FSA OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		
G111	FSA OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		
G112	FSA OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		
G113	FSA OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		
G114	FSA OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		
G115	FSA OFFICE	PA	SC/WD	3'-0''	7'-0''	1 3/4"	SF4	AI/GL	2-601	2-601		11		

GENERAL DOOR NOTES

1. ALL HOLLOW METAL DOORS AND FRAMES IN EXTERIOR WALLS SHALL BE GALVANIZED

AND INSULATED. REFER TO SPECIFICATIONS

2. ALL METAL THRESHOLDS SHALL BE SET IN A BED OF SEALANT.

3. PROVIDE CONTINOUS SEALANT AT PERIMETER OF DOOR FRAMES, BOTH SIDES. 4. UNLESS OTHERWISE NOTED ALL WOOD DOORS SHALL BE PREFINISHED. REFER TO

SPECIFICATIONS. ALL HOLLOW METAL DOORS AND FRAMES TO BE PRIMED AND PAINTED. 5. UNLESS NOTED "R.O." (ROUGH OPENING), DIMENSIONS REPRESENT UNIT SIZES. SEE

SCHEDULE FOR DOOR TYPES & HEIGHTS. 6. SEE SCHEDULE FOR GLASS TYPES

GLAZING TYPES | SPEC: 088000/088853

IG - INSULATED GLAZING G - MONOLITHIC GLAZING TG - TEMPERED GLAZING

SG - SECURITY GLAZING

07 THERMAL AND MOISTURE PROTECTION 7.92 JOINT SEALANTS | SPEC 079200 7.92.01 CONTINOUS SEALANT

KEY NOTES

8.11 HOLLOW METAL DOORS AND FRAMES | SPEC 081113 8.11.01 SCHEDULED DOOR AND FRAME

8.41 ALUMINUM STOREFRONTS | SPEC 084113

8.41.01 SCHEDULED ALUMINUM FRAMED STOREFRONT SYSTEM 8.51 METAL WINDOWS | SPEC 085100 8.44.02 SCHEDULED WINDOW, COORDINATE WITH WINDOW

FINISHES 9.29 GYPSUM BOARD | SPEC 092900

SCHEDULE.

9.29.01 5/8" GYPSUM BOARD 9.92 INTERIOR PAINTING | SPEC 099123 9.92.02 PREP, PRIME, PAINT (TWO (2) COATS) ENTIRE DOOR FRAME AND DOOR.

ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

22-0012

PROJECT #:

PROFESSIONAL SEAL

JIM A. SARRO AIA, LEED AP BD+C

JIMS@MG-Architects.com COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS

633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

ISSUED DATE: ISSUED 8/17/23

PROJ. MGR.: JIM SARRO

P.M. e-MAIL: JIMS@MG-Architects.com DRAWN BY: DK, SG, BB, JS CLIENT PROJ #:

VERIFY SCALE 0

COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION C MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTE permission and consent of muhlenberg greeni ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD

DOOR SCHEDULE

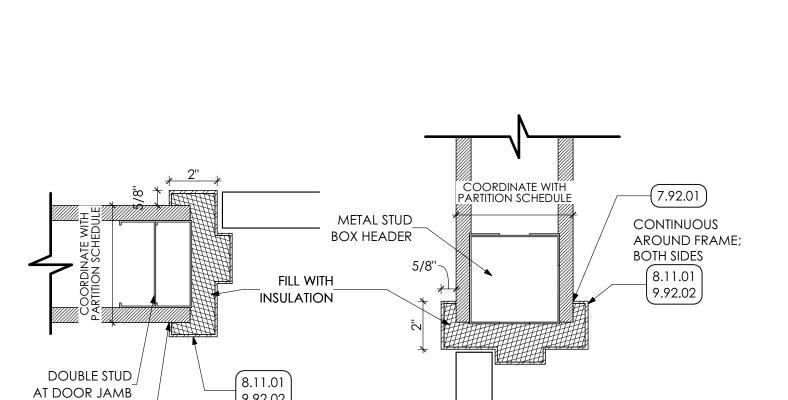
DOOR HARDWARE SCHEDULE | SPEC: 087111 MORTISE (M)/ **HARDWARE ELECTRIC LOCK & HARDWARE** CONTACT POSITION **FLOOR GASKET** HARDWARE ID **DOORS** LOCK/LATCH FUNCTION HINGE CARD/KEY FOB READER CLOSER / HOLD-OPEN STOP/BUMPER KICK PLATE **THRESHOLD ACCESSORIES NOTES** BORED (B) OUTSIDE INSIDE **POWER TRANSFER SWEEP** G108, G109 CLASSROOM M LEVER LEVER 1.5 PAIR CLOSER WALL STOP G100,G101, G102, G106, G110, G111, G112, G113, **LEVER WALL STOP** LEVER 1.5 PAIR CLOSER PRIVACY G114, G115 12 PUSH/PULL 1.5 PAIR MANUFACTURE STANDARD HARDWARE. G105

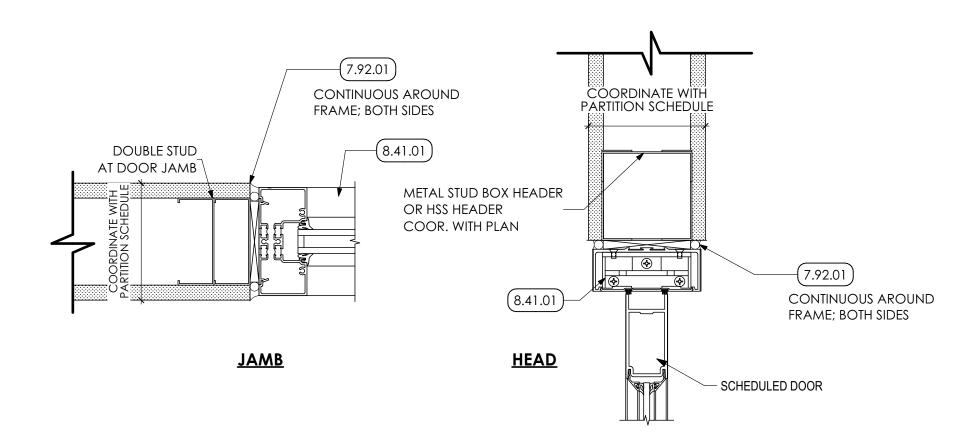
GENERAL HARDWARE NOTES

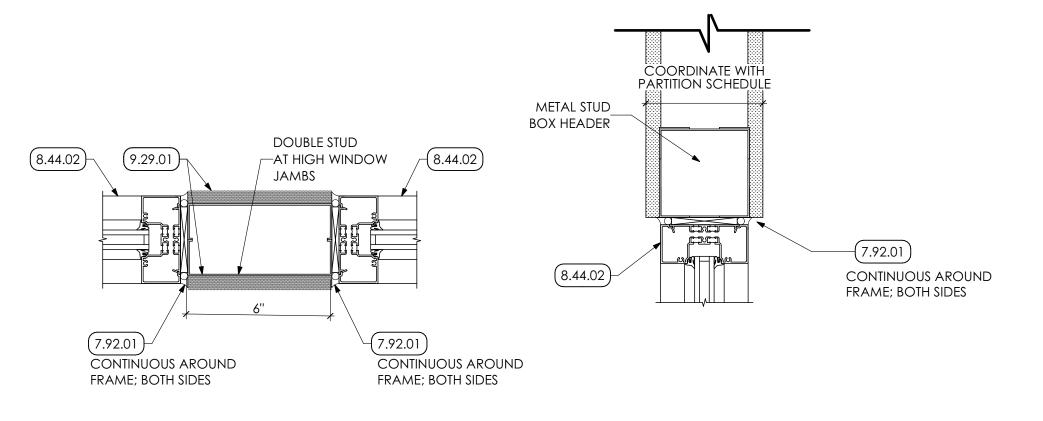
CONTINUOUS AROUND FRAME; BOTH SIDES

7.92.01

- PROVIDEFRAME SILENCER INSERTS AT ALL HOLLOW METAL DOOR FRAMES NOT INDICATED FOR FULL GASKE
- US32D FINISH EQUIVALENT TO BHMA FINISH 630 SATIN STAINLESS STEEL
- "LDW" KICKPLATE INDICATES WIDTH TO BE 2" LESS THAN HOST DOOR WIDTH ALL HINGES AT INTERIOR DOORS TO BE PLATED STEEL; EXTERIOR DOOR HINGES TO BE STAINLESS STEEL
- STOREFRONT DOOR HARDWARE TO MATCH STOREFRONT FINISH
- PROVIDE TRANSITION STRIPS AT ALL DOOR LOCATIONS WHERE FLOOR FINISH CHANGES; SIZE TO ACCEPT ADJACENT FINISHES
- ALL HANDLE-INTEGRATED LOCK FUNCTIONS TO BE ADA-COMPLIANT PUSH-BUTTON
- CARD ACCES DOOR OPERATION: DOOR NORMALLY CLOSED AND LOCKED
- ENTRY BY VALID CARD CREDENTIAL OR KEY OVERRIDE FREE EGRESS FROM DIRECTION OF TRAVEL AT ALL TIMES



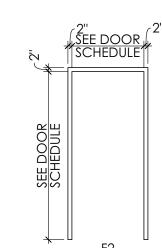


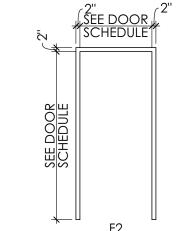




GENERAL NOTE STOREFRONT WINDOW DETAILS ARE SIMILAR IN NATURE.





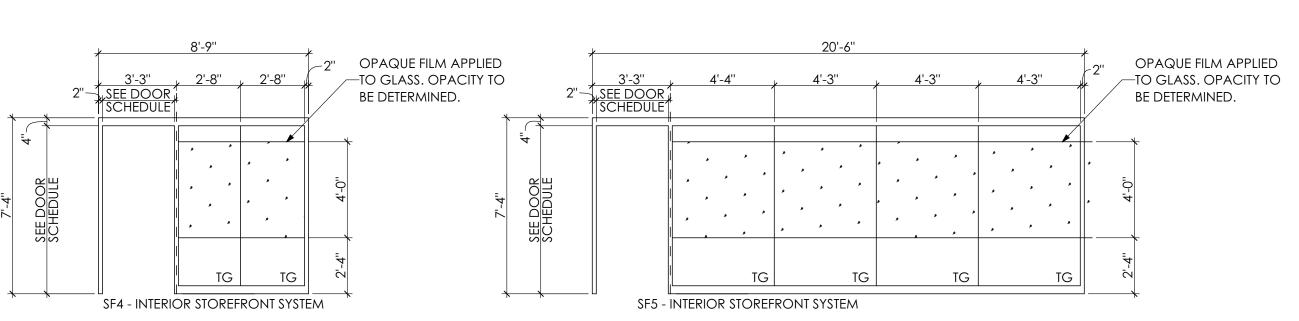


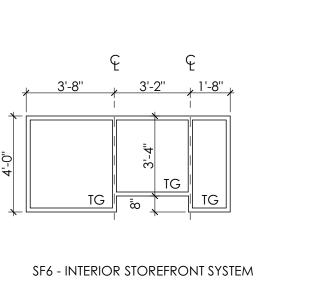


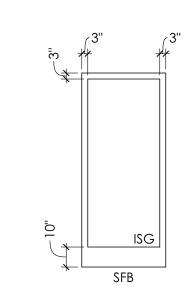
HM FRAME TYPE SPEC: 081113 SCALE: 1/4" = 1'-0"

DOOR HEAD/JAMB DETAIL

SCALE: 3" = 1'-0"





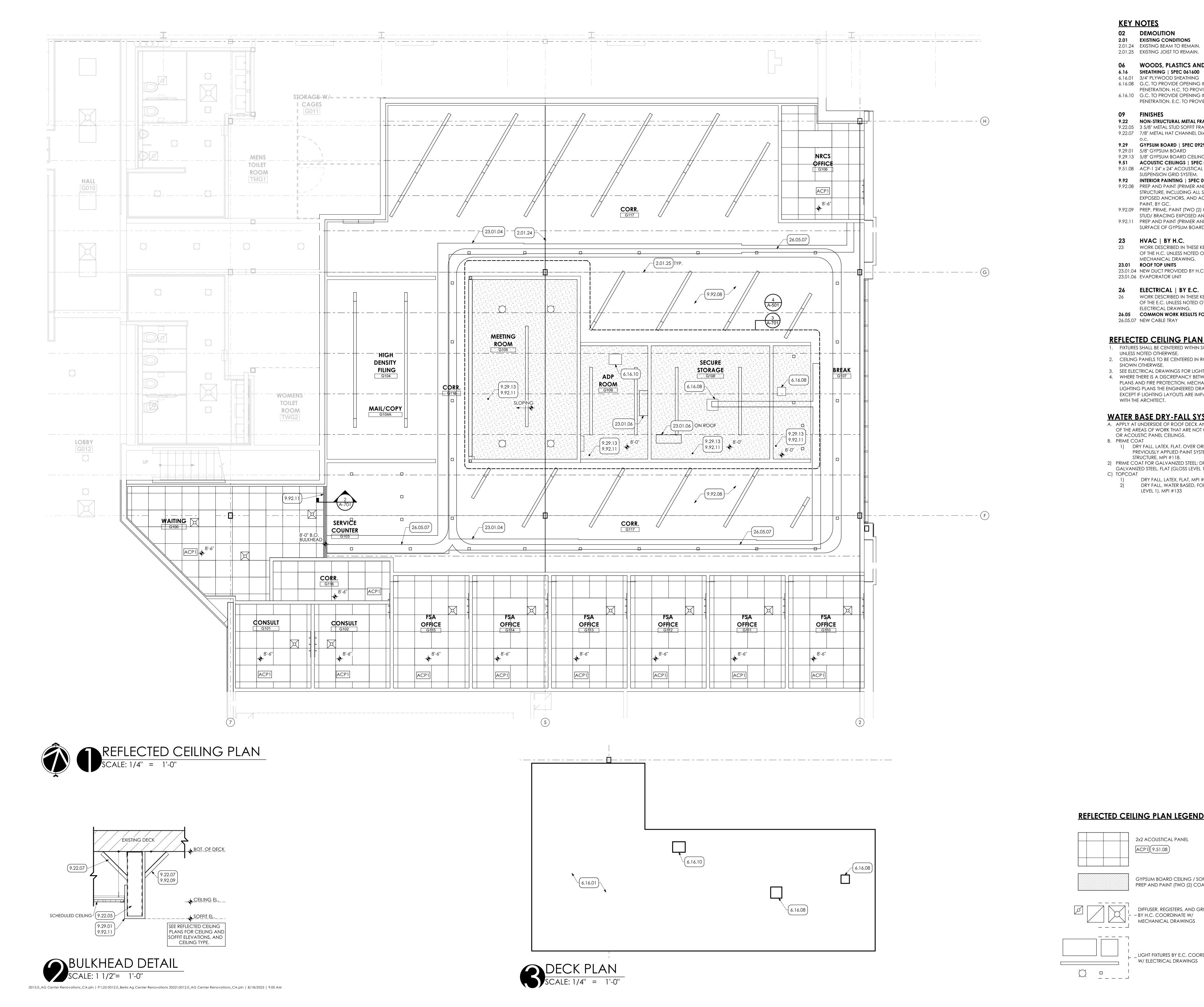




W4



0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 9:00 AM



KEY NOTES

02 DEMOLITION

2.01 EXISTING CONDITIONS 2.01.24 EXISTING BEAM TO REMAIN. 2.01.25 EXISTING JOIST TO REMAIN.

06 WOODS, PLASTICS AND COMPOSITES 6.16 SHEATHING | SPEC 061600

6.16.01 3/4" PLYWOOD SHEATHING 6.16.08 G.C. TO PROVIDE OPENING IN DECK FOR NEW DUCT PENETRATION. H.C. TO PROVIDE LOCATION AND SIZE. 6.16.10 G.C. TO PROVIDE OPENING IN DECK FOR NEW DUCT

PENETRATION. E.C. TO PROVIDE LOCATION AND SIZE.

9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092216 9.22.05 3 5/8" METAL STUD SOFFIT FRAMING AT 16" o.c. 9.22.07 7/8" METAL HAT CHANNEL DIAGONAL BRACING AT 48"

9.29 GYPSUM BOARD | SPEC 092900

9.29.01 5/8" GYPSUM BOARD 9.29.13 5/8" GYPSUM BOARD CEILING

9.51 ACOUSTIC CEILINGS | SPEC 095100 9.51.08 ACP-1 24" x 24" ACOUSTICAL CEILING PANEL AND METAL

SUSPENSION GRID SYSTEM. 9.92 INTERIOR PAINTING | SPEC 099123 9.92.08 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENITRE STRUCTURE, INCLUDING ALL STEEL JOISTS / BEAMS,

PAINT, BY GC. 9.92.09 PREP, PRIME, PAINT (TWO (2) COATS) ENTIRE COLUMN/ STUD/ BRACING EXPOSED ANCHORS, AND ACCESSORIES. 9.92.11 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENTIRE

SURFACE OF GYPSUM BOARD CEILING.

EXPOSED ANCHORS, AND ACCESSORIES WITH DRYFALL

23 HVAC | BY H.C.

WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBLITY OF THE H.C. UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL DRAWING. 23.01 ROOF TOP UNITS

23.01.04 NEW DUCT PROVIDED BY H.C. 23.01.06 EVAPORATOR UNIT

26 ELECTRICAL | BY E.C.

WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBLITY OF THE E.C. UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL DRAWING.

26.05 COMMON WORK RESULTS FOR ELECTRICAL 26.05.07 NEW CABLE TRAY

REFLECTED CEILING PLAN GENERAL NOTES:

1. FIXTURES SHALL BE CENTERED WITHIN SOFFITS AND CEILING GRIDS UNLESS NOTED OTHERWISE.

2. CEILING PANELS TO BE CENTERED IN ROOM UNLESS NOTED OR SHOWN OTHERWISE.

3. SEE ELECTRICAL DRAWINGS FOR LIGHT TYPES AND SWITCHING. 4. WHERE THERE IS A DISCREPANCY BETWEEN THE REFLECTED CEILING PLANS AND FIRE PROTECTION, MECHANICAL, FIRE ALARM, AND/OR LIGHTING PLANS THE ENGINEERED DRAWINGS TAKE PRECEDENT, EXCEPT IF LIGHTING LAYOUTS ARE IMPACTED. IN THAT CASE CONSULT

WATER BASE DRY-FALL SYSTEM:

LEVEL 1), MPI #133

ACP1 9.51.08

GYPSUM BOARD CEILING / SOFFIT

PREP AND PAINT (TWO (2) COATS)

DIFFUSER, REGISTERS, AND GRILLES,

LIGHT FIXTURES BY E.C. COORDINATE

W/ ELECTRICAL DRAWINGS

- BY H.C. COORDINATE W/ MECHANICAL DRAWINGS

WITH THE ARCHITECT.

A. APPLY AT UNDERSIDE OF ROOF DECK AND FRAMING IN ANY PORTIONS OF THE AREAS OF WORK THAT ARE NOT COVERED BY GYPSUM BOARD OR ACOUSTIC PANEL CEILINGS. B. PRIME COAT

1) DRY FALL, LATEX, FLAT, OVER ORIGINAL SHOP PRIMER OR PREVIOUSLY APPLIED PAINT SYSTEM TO EXISTING STEEL STRUCTURE, MPI #118. 2) PRIME COAT FOR GALVANIZED STEEL: DRY FALL, WATER BASED, FOR

GALVANIZED STEEL, FLAT (GLOSS LEVEL 1), MPI #133. DRY FALL, LATEX, FLAT, MPI #118. DRY FALL, WATER BASED, FOR GALVANIZED STEEL, FLAT (GLOSS

ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES

ENGINEERING SERVICES HISTORIC PRESERVATION 55 BERKSHIRE BLVD., SUITE 10 WYOMISSING, PA 19610

610.376.4927

www.MG-Architects.com PROJECT #:

22-0012

PROFESSIONAL SEAL

JIM A. SARRO AIA, LEED AP BD+C JIMS@MG-Architects.com

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

	ISSUED							
	DATE: ISSUED 8/17/23							
ID	DESCRIPTION	DATE						

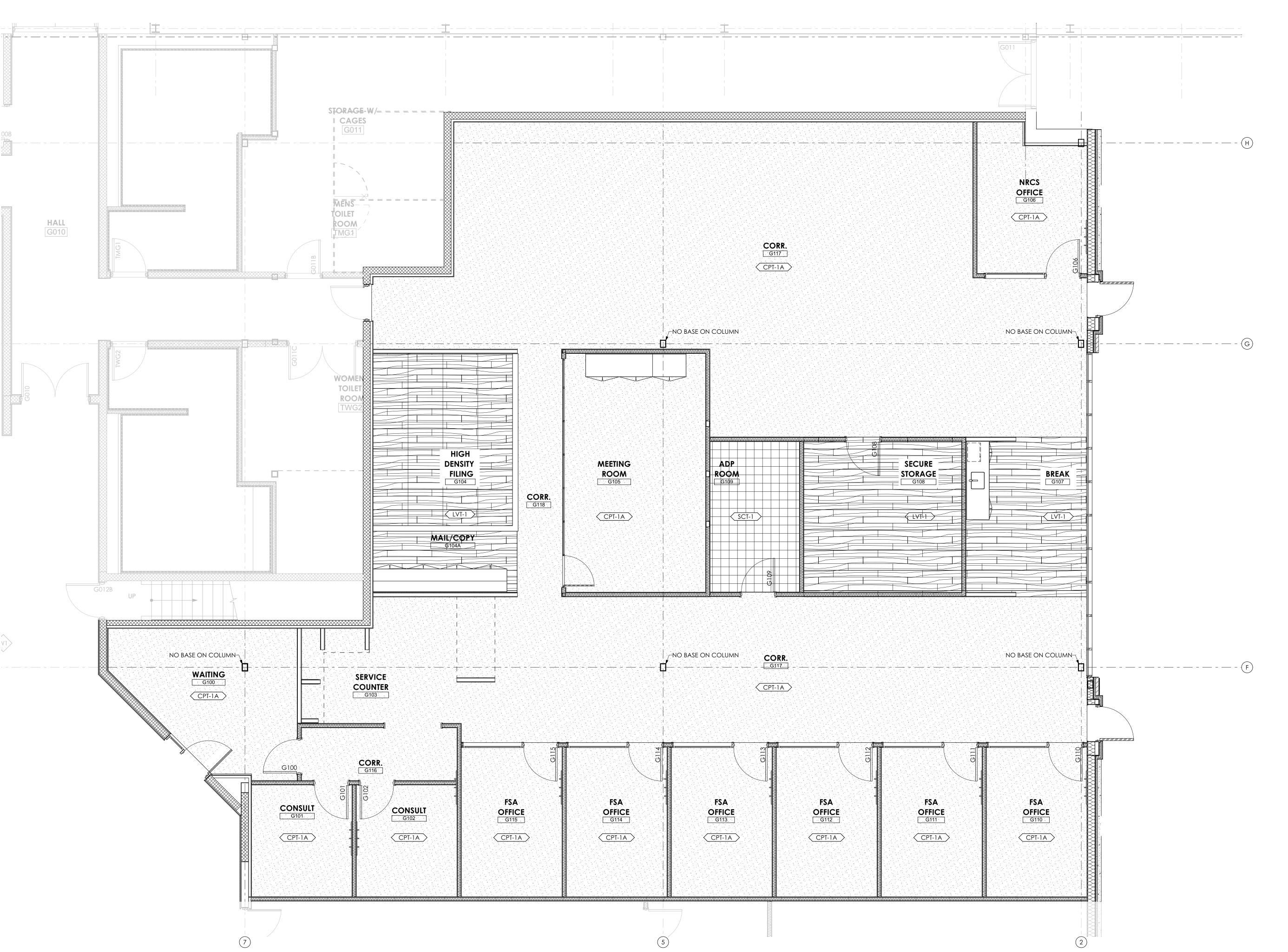
PROJ. MGR.: JIM SARRO P.M. e-MAIL: JIMS@MG-Architects.com DRAWN BY: DK, SG, BB, JS CLIENT PROJ #: -

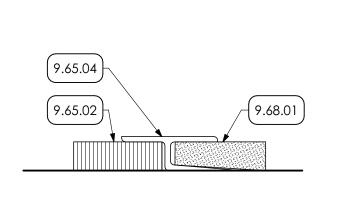
> VERIFY SCALE 0

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION C MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN permission and consent of muhlenberg greene ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE

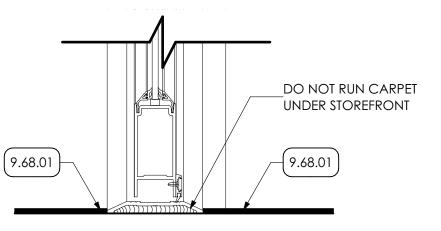
AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

REFLECTED CEILING PLAN





0012.0_AG Center Renovations_CA.pln | P:\22-0012.0_Berks Ag Center Renovations 2022\0012.0_AG Center Renovations_CA.pln | 8/18/2023 | 9:00 AM





FINISH SCHEDULE										
ROOM #	ROOM NAME		W	ALLS	BASE	FLOOR	CEILI	NG	NOTES	
KOOM #	ROOM NAME	N	S	Е	W	BASE	FLOOR	TYPE	HEIGHT	NOIES
G100	WAITING		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G101	CONSULT		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G102	CONSULT		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP-1	8'-6"	
G103	SERVICE COUNTER		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1/OPEN	8'-6"	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G104	HIGH DENSITY FILING		PRIME AND PA	AINT TWO COATS		RB	LVT-1	OPE	ĒN	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G105	MEETING ROOM		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	GYP	SLOPED	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G106	NRCS OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G107	BREAK AREA		PRIME AND PA	AINT TWO COATS		RB	LVT-1	GYP/OPEN	8'-0''	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G108	SECURE STORAGE		PRIME AND PA	AINT TWO COATS		RB	LVT-1	GYP	8'-0''	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G109	ADP ROOM		PRIME AND PA	AINT TWO COATS		RB	SCT-1	GYP	8'-0''	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G110	FSA OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G111	FSA OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G112	FSA OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G113	FSA OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G114	FSA OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G115	FSA OFFICE		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G116	CORR,		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	ACP1	8'-6"	
G117	CORR.			AINT TWO COATS		RB	CPT-1A	OPI		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G118	CORR.		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	OPE	ΞN	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G119	CORR.		PRIME AND PA	AINT TWO COATS		RB	CPT-1A	OPE	ĒΝ	PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.

KEY NOTES

09 FINISHES

9.65 RESILIENT BASE | SPEC 096513

9.65.02 PROVIDE LVT OVER HYDRAULIC CEMENT UNDERLAYMENT THROUGHT ENTIRE ROOM OR CORRIDOR. PREP SUBSTRATE AS REQUIRED PER MANUFACTURES RECCOMENDATIONS.

9.65.03 PROVIDE STATIC CONTROL TILE OVER MANUFACTURES REQUIRED UNDERLAYLAYMENT, INCLUDING COPPER STRIP THROUGH ENTIRE ROOM. PREP SUBSTRATE AS REQUIRED PER MANUFACTURES RECCOMENDATIONS.

9.65.04 RUBBER TRANSITION STRIP 9.68 CARPETING | SPEC 096800 I 035416

9.68.01 PROVIDE CARPET TILE OVER HYDRAULIC CEMENT UNDERLAMENT THROUGHT ROOM OR CORRIDOR. PREP SUBSTRATE AS REQUIRED PER MANUFACTURE RECCOMENDATIONS.

1.1 STATIC-CONTROL, SOLID VINYL FLOOR TILE

Copy this article and re-edit for each product. Insert drawing designation. Use these designations on Drawings to identify each product. A. <u>Basis-of-Design Product: http://www.specagent.com/Lookup?ulid=14035 Subject to</u>

- compliance with requirements, provide Armstrong Flooring; Excelon SDT Electrostatic Dissipative Tile or comparable product by one of the following: 1. <u>Flexco Corporation http://www.specagent.com/Lookup?uid=123457174262.</u>
 - 2. <u>Johnsonite; a Tarkett company <a href="http://www.specagent.com/Lookup?uid="http://www.specagent.com/Lookup.com/L</u> <u>123457174280></u>.
 - 3. Roppe Corporation; Roppe Holding Company http://www.specagent.com/Lookup?uid=123457174268>.
 - StaticStop; a division of SelecTech, Inc <a href="http://www.specagent.com/Lookup?uid="https://www.specagent.com/Lookup?uid="https://ww <u>123457174281></u>.
- 5. <u>Staticworx < http://www.specagent.com/Lookup?uid=123457174282>.</u> B. Static-Control Properties: As determined by testing identical products in accordance with test method indicated by an independent testing and inspecting agency.
 - Electrical Resistance: a. Material: Point-to-point and point-to-ground resistances between 10/6
 - ohms and 10/9 ohms when tested in accordance with ASTM F150/ESD
 - b. Material in Combination with a Person: **Average** resistance of 4.48x10/8
- ohms when tested in accordance with ESD STM97.1. 2. Static Generation:
- a. ESD STM97.2: Less than 30 V when tested at 12 percent relative humidity with static-control footwear.
- 3. Static Dissipation: 1000 to 100 V in less than 0.2 seconds maximum. If required by authorities having jurisdiction or Owner, insert fire-test-response-characteristic requirements to suit Project. Retain first option in "Critical Radiant Flux" Paragraph below if Class I floor finish materials are required; retain second option if Class II floor finish materials are required. See "Fire-Test-Response Characteristics" Article in the Evaluations.
- C. Construction: **ASTM F1066, Class 2 Through Pattern.** D. Thickness: Manufacturer's standard. E. Size: 12 by 12 inches (305 by 305 mm).
- Retain "Colors and Patterns" Paragraph below if colors and patterns are not indicated in a separate schedule. F. Colors and Patterns: **As selected by Architect from manufacturer's full range**.
- Retain "Maintenance Floor Tiles" Paragraph below if required for conductive floor tile, and revise to suit Project. Not all manufacturers produce maintenance floor tiles. G. Maintenance Floor Tiles: Special floor tiles inscribed "Conductive floor. Do not wax."
- 1.2 INSTALLATION MATERIALS Retain "Static-Control Adhesive" Paragraph below for adhesively installed products. Delete if all products use free-lay installation methods.
- A. Static-Control Adhesive: Provided or approved by manufacturer; type that maintains electrical continuity of floor-covering system to ground connection. For substrates other than concrete, verify requirements for substrate preparation with
- manufacturers and insert products if necessary. B. Grounding Strips: Provided or approved by manufacturer; type and size that maintains electrical continuity of floor-covering system to ground connection.
- Retain "Integral-Flash-Cove Base Accessories" Paragraph below if required. Requirements vary among manufacturers; revise to suit Project and specified products. C. Integral-Flash-Cove Base Accessories:
- 1. Cove Strip: 1-inch (25-mm) radius support strip provided or approved by D. Install in strict accordance with manufactures instructions.

FINISH PLAN GENERAL NOTES:

1. E.C. TO MAKE CONNECTION OF STATIC CONTROL TILE COPPER STRIP TO GROUNDING WIRE, COORDINATE WITH ELECTRICAL DRAWINGS.

ISSUED DATE: ISSUED 8/17/23

(9.68.01)

(9.65.03)

9.65.02

ARCHITECTURAL DESIGN

INTERIOR DESIGN

CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101

WYOMISSING, PA 19610

610.376.4927

www.MG-Architects.com

PROJECT #:

22-0012

PROFESSIONAL SEAL

JIM A. SARRO AIA, LEED AP BD+C

JIMS@MG-Architects.com

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS

633 COURT STREET

READING, PA 19601

610.478.6201 X6220

RLEVENGOOD@CountyOfBerks.gov

PROJ. MGR.: JIM SARRO P.M. e-MAIL: JIMS@MG-Architects.com DRAWN BY: DK, SG, BB, JS CLIENT PROJ #: -

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING COPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION C MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO

ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN

ermission and consent of muhlenberg greeni

ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

FINISH PLAN

FT FLOOR TILE PATTERN ID

LVT FLOORING

STATIC CONTROL TILE

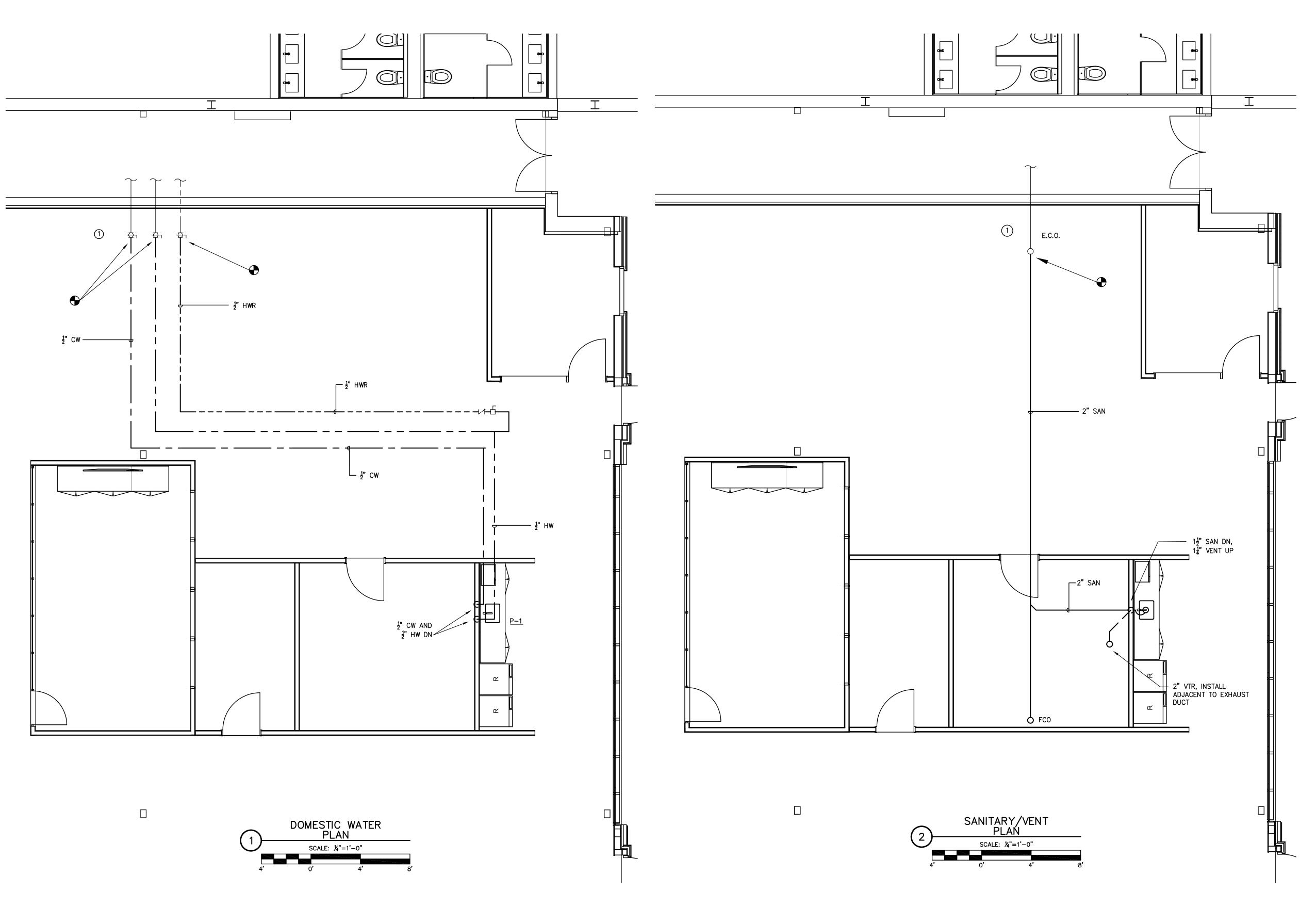
FINISH PLAN LEGEND

CARPET

CPT-1A

SCT-1





DRAWING NOTES:

CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING HOT WATER, COLD WATER, AND HOT WATER RETURN LINES. CONTRACTOR SHALL CONNECT NEW COLD WATER, HOT WATER, AND HOT WATER RETURN LINES TO EXISTING HOT WATER, COLD WATER, AND HOT WATER RETURN LINES.

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	MANUFACTURER	MODEL	CW	HW	DRAIN	VENT	REMARKS
P-1	DOUBLE BOWL SINK	ELKAY	LRAD331965PD	1/2"	1/2"	1 1/2"	1 1/4"	ADA COMPLIANT, STAINLESS STEEL, DOUBLE BOWL, DROP-IN SINK. PROVIDE WITH DECK MOUNT, 3-HOLE, ADA COMPLIANT FAUCET, MODEL LK1000CR.

NOTES:

1. CONTRACTOR SHALL REVIEW ALL CONTRACTOR FURNISHED PLUMBING FIXTURES WITH OWNER PRIOR TO PURCHASE.

CONTRACTOR SHALL FURNISH AND INSTALL STOPS ON SUPPLY LINES TO ALL FIXTURES.
 CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS FOR ALL VALVES AS REQUIRED.

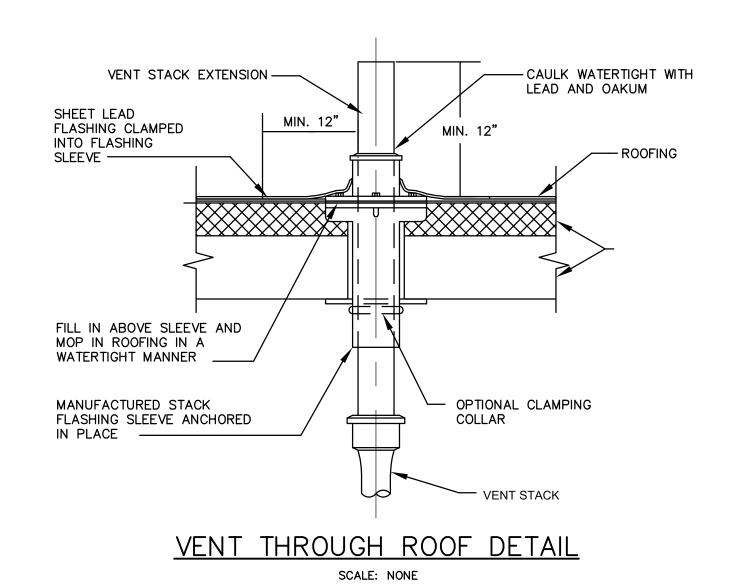
4. ALL EXPOSED PIPING UNDER ADA ACCESSIBLE COUNTERTOP SINKS AND LAVATORIES SHALL BE INSULATED AND PROTECTED WITH PREFABRICATED MOLDED COVERS AS MANUFACTURED BY PLUMEREX OR EQUIVALENT.

PLUMBING LEGEND

	- -	DOMESTIC COLD WATER PIPING	•	POINT OF NEW CONNECTION TO EXISTING
		DOMESTIC HOT WATER SUPPLY PIPING		
		DOMESTIC HOT WATER RETURN PIPING	(#)	KEYED DRAWING NOTE
	SAN	SANITARY DRAIN PIPING — BELOW GRADE	DN	DOWN
	——— SAN ————	SANITARY DRAIN PIPING - ABOVE GRADE	CW	COLD WATER
	v	VENT PIPING - ABOVE GRADE	HW	HOT WATER
<u> </u>		PIPE DROP	W	WASTE
0-		PIPE RISE	40	BALANCING VALVE (CIRCUIT SETTER)
	~	FIXTURE DRAIN WITH P-TRAP	\triangleright	CHECK VALVE
FCC) 0	FLOOR CLEANOUT	L Q .	BALL VALVE

DRAWING NOTES:

CONTRACTOR SHALL FIELD VERIFY LOCATION AND INVERT OF EXISTING CLEAN OUT SERVING THIS SPACE. CONTRACTOR SHALL CONNECT NEW SANITARY LINE TO EXISTING SANITARY LINE.



GENERAL PLUMBING NOTES

- A. GENERAL PLUMBING NOTES
- PROVIDE ALL LABOR AND MATERIALS NEEDED FOR A COMPLETE AND PROPERLY OPERATIONAL PLUMBING
- 2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS OR TO SHOW EVERY PIPE, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT
- SCALE LOCATION DIMENSIONS FROM THESE DRAWINGS.

 3. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF HIS WORK WITH THAT OF OTHER

TRADES. PERFORM WORK IN AN ORDERLY MANNER AND

WITH THE LEAST POSSIBLE INTERFERENCE.

ORDINANCES.

THE PURPOSE USED.

- 4. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT ENFORCED EDITION OF:

 A. INTERNATIONAL BUILDING CODE
- B. INTERNATIONAL PLUMBING CODEC. NEC (NFPA 70).D. ALL FEDERAL, STATE, AND LOCAL CODES AND
- 5. ALL MATERIALS, EQUIPMENT, AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL REQUIREMENTS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR
- 6. WHERE PIPES OR CONDUIT PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS, AND CEILINGS), SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEM. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED CEILING, FLOOR AND PARTITION LOCATIONS.
- 7. ALL EQUIPMENT AND MATERIALS INCORPORATED IN THIS WORK SHALL BE NEW UNLESS NOTED OTHERWISE AND SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH
- 8. ALL FACTORY APPLIED COATINGS AND FINISHES SHALL BE PROVIDED WITHOUT RUST, SCRATCHES, OR DENTS.
- PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTIONS AND ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION.
- B. COORDINATION REQUIREMENTS
- COORDINATE LOCATION AND INSTALLATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE COMPLETELY RESOLVED BY CONTRACTOR IN ACCORDANCE WITH RECOMMENDATIONS
- OF THE ARCHITECT/OWNER.

 2. COORDINATE FINAL LOCATIONS OF PLUMBING EQUIPMENT WITH ARCHITECTURAL PLANS.
- 3. PROVIDE TO THE GENERAL CONTRACTOR, DIMENSIONED LOCATIONS AND SIZE OF ALL REQUIRED FLOOR AND WALL OPENINGS. PROVIDE FOR INSTALLATION OF
- SLEEVES AND FRAMING AS REQUIRED.

 4. CUTTING AND PATCHING WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- C. PLUMBING INSTALLATION REQUIREMENTS
- 1. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN CLEARANCES FOR CLEARANCE ACCESS TO MAINTAIN AND SERVICE EQUIPMENT, VALVES AND CONTROL.
- ALL INSTALLATION AND WORK SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER SO AS NOT TO DAMAGE ANY SURFACES, EQUIPMENT, OR MATERIALS.
- MOTOR OPERATED EQUIPMENT SHALL BE ISOLATED FROM THE BUILDING STRUCTURE BY THE INSTALLATION OF APPROVED VIBRATION HANGERS OR SUPPORTS.
- 4. ALL EQUIPMENT AND PIPING ABOVE THE CEILING AND OR TIGHT TO BUILDING STRUCTURE, SHALL BE SUPPORTED IN AN APPROVED MANNER FROM THE BUILDING STRUCTURE ABOVE.
- PROVIDE PIPE ESCUTCHEONS AT ALL EXPOSED PENETRATIONS OF FLOOR, WALLS AND CEILINGS.
- 6. PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
- 7. RUNOUTS TO EQUIPMENT SHALL BE SIZED AS INDICATED AND INCREASED OR REDUCED AT POINT OF FINAL
- 8. ALL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION
- IN ACCORDANCE WITH APPLICABLE CODE OR REGULATION.
- 9. SEAL ALL PIPE PENETRATIONS THROUGH WALLS AND FLOORS WATERTIGHT.

CONNECTION TO EQUIPMENT.

PLUMBING SPECIFICATIONS

- 1. DOMESTIC WATER
- A. DOMESTIC WATER DISTRIBUTION PIPE MATERIAL SHALL BE PER TABLE 605.4 "WATER DISTRIBUTION PIPE" ON THIS DRAWING.
- B. DOMESTIC WATER PIPE FITTINGS SHALL BE PER TABLE 605.5 "PIPE FITTINGS" ON THIS DRAWING.
- 2. <u>SANITARY DRAINAGE</u>
- A. SANITARY AND VENT PIPE MATERIAL ABOVE GROUND SHALL BE PER TABLE 702.1 "ABOVE GROUND DRAINAGE AND VENT PIPE" ON THIS DRAWING. SANITARY AND VENT PIPE MATERIAL BELOW GROUND SHALL BE PER TABLE 702.2 "UNDERGROUND BUILDING DRAINAGE AND VENT PIPING" ON THIS DRAWING. SLOPE SANITARY PIPING PER TABLE 704.1 "SLOPE OF HORIZONTAL DRAINAGE PIPE" ON THIS DRAWING.
- B. SANITARY AND VENT PIPE FITTINGS SHALL BE PER TABLE 702.4 "PIPE FITTINGS" ON THIS DRAWING.
- 3. DOMESTIC WATER PIPE INSULATION
- A. INSULATE ALL DOMESTIC HOT WATER, HOT WATER RETURN, AND COLD WATER PIPES WITH 1" ARMAFLEX OR FIBERGLASS WITH A MINIMUM R-VALUE 3.0 OR R-VALUE PER AUTHORITY HAVING JURISDICTION. INSTALL INSULATION PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH BLACK
- 4. DISINFECTION OF POTABLE WATER SYSTEM:
- A. POTABLE WATER SYSTEM SHALL BE CLEANED AND DISINFECTED PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

IPC TABLE 605.4 WA	ATER DISTRIBUTION PIPE				
MATERIAL	STANDARD				
COPPER OR COPPER-ALLOY TUBING (TYPE K, WK, L, WL, M OR WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447				
CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING	ASTM F 876; ASTM F 877; CSA B137.5				
CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE	ASTM F 1281; ASTM F 2262 CAN/CSA B137.10M				
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986				

IPC TABLE 605.5	PIPE FITTINGS
MATERIAL	STANDARD
COPPER OR COPPER-ALLOY	ASSE 1061; ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.23; ASME B16.26; ASME B16.29
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986
FITTINGS FOR CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING	ASSE 1061; ASTM F 877; ASTM F 1807; ASTM F 1960; ASTM F 2080; ASTM F 2098; ASTM F 2159; ASTM F 2434; CSA B137.5
INSERT FITTINGS FOR POLYETHYLENE/ALUMINUM/POLYETHYLENE (PE-AL-PE) AND CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX)	ASTM F 1974; ASTM F1281; ASTM F1282; CAN/CSA B137.9; CAN/CSA B137.10

	PC TABLE 702.1 ABOVE GROUND	DRAINAGE AND VENT PIPE
	MATERIAL	STANDARD
С	AST-IRON PIPE	ASTM A 74; ASTM A 888; C1SP1301
	DLYVINYL CHLORIDE (PVC) PLASTIC PIPE IN IPS DIAMETERS, INCLUDING SCHEDULE 40. DR 22 (PS 200), AND DR 24 (IPS 140); WITH A SOLID, CELLULAR CORE OR COMPOSITE WALL	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
	PLYVINYL CHLORIDE (PVC) PLASTIC PIPE WITH A 3.25-INCH A.D AND A SOLID, CELLULAR CORE OR COMPOSITE WALL	ASTM D 2949; ASTM F 1488

	GROUND BUILDING GE AND VENT PIPE
MATERIAL	STANDARD
ACRYLONITRITE BUTADIENE STYRENE (ABS) PLASTIC PIPE IN IPS DIAMETERS, INCLUDING SCHEDULE 40. DR 22 (PS 200) AND DR 24 (PS 140); WITH SOLID, CELLULAR CORE, OR COMPOSITE WALL.	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1
POLYVINL CHLORIDE (PVC) PLASTIC PIPE IN IPS DIAMETERS, INCLUDING SCHEDULE 40. DR 22 (PS 200) AND DR 24 (PS 140); WITH SOLID, CELLULAR CORE, OR COMPOSITE WALL.	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE WITH A 3.25-INCH A.D AND A SOLID, CELLULAR CORE OR COMPOSITE WALL	ASTM D 2949; ASTM F 1488

IPC TABLE 702.4 P	PIPE FITTINGS						
MATERIAL	STANDARD						
CAST-IRON PIPE	ASME B16.4; ASME B16.12; ASTM A 74; ASTM A 888; C1SP1301						
POLYVINYL CHLORIDE (PVC) IN IPS DIAMETERS	ASTM D 2665; ASTM F 1866						
POLYVINL CHLORIDE (PVC) PLASTIC PIPE IN SEWER AND DRAIN DIAMETERS	ASTM D 3034						
POLYVINL CHLORIDE (PVC) PLASTIC PIPE WITH A 3.25-INCH G.D.	ASTM D 2949						

IPUL IABLE /U4 I	LOPE OF HORIZONTAL RAINAGE PIPE
SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8

ARCHITECT
ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927

www.MG-Architects.com

PROJECT #:

22-0012

CONSULTANT

PROJECT #: 23-0995-0139
PROFESSIONAL SEAL

Stephen Gribb, P.E.
s.gribb@sdei.net

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

AGRICULTURAL CENTE

A FIT-OUT

USDA FIT-OL

ISSUED

DATE: ISSUED 8/17/23

VID DESCRIPTION DATE

 Ω

PROJ. MGR.: Stephen Gribb, P.E.
P.M. e-MAIL: s.gribb@sdei.net
DRAWN BY: Lauren Sarro

CLIENT PROJ #: -

O VERIFY SCALE 1

COPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR AN PART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUAN TO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MARCHITECTS, LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER AR NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNE WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRI PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREEN ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE ANI THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSL

ESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

SHEET TITLE:

PLUMBING PLAN

P101

GENERAL NOTES:

SPECIFIED OR IMPLIED.

- 1. CONTRACTOR SHALL EXAMINE ALL CONSTRUCTION DOCUMENTS AND VISIT THE SITE TO BECOME ACQUAINTED WITH THE CONSTRUCTION AND THE EXTENT OF THE WORK.
- 2. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE, WHETHER
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE AND ALL OTHER REQUIREMENTS OF THE AUTHORITY HAVING
- 4. CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES NECESSARY.
- 5. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS, THE DESIGN DRAWINGS ARE
- DIAGRAMMATIC AND INDICATED THE GENERAL LAYOUT AND CONNECTIONS, CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSION, ETC AT THE JOB SITE.
- 6. CONTRACTOR SHALL REVIEW THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE BETWEEN BEAMS, STRUCTURES, PIPING, LIGHTING FIXTURES ETC. BEFORE PROCEEDING WITH NEW WORK.
- 7. CONTRACTOR SHALL GUARANTEE THE ENTIRE JOB AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF MANUFACTURER'S GUARANTEE AND CONTRACTOR SHALL REMOVE AND REPLACE ALL DEFECTIVE MATERIAL REGARDLESS OF CAUSE (EXCEPT FOR DEFECTS TRACEABLE TO IMPROPER MAINTENANCE
- OR MALICIOUS DESTRUCTION OCCURRING AFTER THE SYSTEM HAS BEEN TURNED OVER). 8. ALL MATERIALS USED ANYWHERE IN THE WORK SHALL HAVE NFPA RATING AS
- FOLLOWS: A. FLAME SPREAD-NOT OVER 25 B. SMOKE DEVELOPED- NOTE OVER 50

C. FUEL CONTRIBUTED- NOTE OVER 25

- 9. SUBMIT TO THE ENGINEER FOR APPROVAL, ELECTRONID COPIES SPECIFICATION SHEETS OF ALL EQUIPMENT SUPPLIED OR INSTALLED AS PART OF THIS WORK.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PIPE PENETRATIONS FIRE DAMPERS WITH ACCESS PANELS AT ALL DUCT PENETRATION AND FIRE RATED CAULKING AS REQUIRED.
- 11. ALL MECHANICAL EQUIPMENT AND APPLIANCES INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- 12. ALL TEST SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT INSULATION IS
- 13. EQUIPMENT AND MATERIAL ARE SPECIFIED TO ESTABLISH A STANDARD OF QUALITY. ALL MATERIAL AND EQUIPMENT USED FOR THIS CONTRACT SHALL BE NEW AND
- 14. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL, SUPPORTS, BRACES, HANGERS, ETC. REQUIRED FOR HIS CONTRACT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SUPPORT LOCATION AND INSTALLATION WITH ROOFING AND STRUCTURAL CONTRACTOR.
- 15. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR
- 16. MAXIMUM ALLOWABLE LENGTH FOR FLEXIBLE DUCT IS SIX (6') FEET.

UNUSED AND OF THE LATEST MODEL OR DESIGN AVAILABLE.

- 17. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING EITHER ENGAGING HIS OWN GENERAL SUBCONTRACTOR OR ONE QUALIFIED BY THE OWNER.
- 18. CONTRACTOR SHALL INFORM THE ENGINEER OF ANY QUESTIONS OR DISCREPANCIES PRIOR TO PRECURSOR AND/OR FABRICATION OF ANY MATERIAL AND INSTALLATION.
- 19. INSTALL ALL EQUIPMENT IN ACCORDANCE TO THE MANUFACTURER'S WRITTEN
- 20. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION, SUPPORTS, TERMINATIONS, AND ACCESSORIES ASSOCIATED WITH AIR HANDLING UNITS, FANS, ETC. 21. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR WHO
- CONTRACTOR SHALL PROVIDE ALL CONTROLS AND INTERCONNECTING WIRING AND 22. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED

WILL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. MECHANICAL

- WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE
- 23. PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND RUNOUTS. AND ELSEWHERE AS REQUIRE TO FACILITATE SYSTEM AIR BALANCING.
- 24. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS AND PIPING CONNECTIONS TO ANY MOTOR DRIVEN MECHANICAL EQUIPMENT (IE. FANS, AIR HANDLERS, PUMPS, ETC.).
- INSTALL FLEXIBLE COPPER GROUNDING STRAPS ACROSS ALL FLEXIBLE CONNECTIONS.
- 25. THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
- 26. ACCESS PANELS SHALL BE PROVIDED TO SERVICE ALL DAMPERS AND CONCEALED MECHANICAL EQUIPMENT.

ENGINEER PRIOR TO INSTALLING ANY CONTROL WORK.

- 27. FINAL LOCATIONS FOR MOUNTING ALL THERMOSTATS SHALL BE COORDINATED WITH THE
- 28. UPON COMPLETION OF THE WORK, REMOVE ALL EXCESS MATERIAL, DEBRIS, TOOLS, AND EQUIPMENT FROM THE SITE, AND LEAVE THE PREMISES IN A BROOM CLEAN CONDITION.
- 29. CONTRACTOR SHALL PROVIDE AN ELECTRONIC COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE
- OWNER'S SATISFACTION. 30. ALL MECHANICAL SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED. TESTING ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR
- BALANCING COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
- 31. M.C IS RESPONSIBLE FOR CONTACTING NRG FOR CONTROLS. NEW HVAC SYSTEM CONTROLS MUST BE CONNECTED TO EXISTING BAS SYSTEM, NRG PROPRIETARY SYSTEM. M.C TO COORDINATE WITH NRG.

HVAC LEGEND

DUCT SIZE

L ^{24x12} L	
	

DUCT SECTION, NEGATIVE AIR PRESSURE POSITIVE AIR PRESSURE VOLUME DAMPER

DUCT TRANSITION DUCT TURNING VANES

FLEXIBLE CONNECTION CEILING DIFFUSER, ARROWS



INDICATE BLOW DIRECTIONS PIPE ELBOW UP

——CD—— CONDENSATE DRAIN PC—PC—PUMPED CONDENSATE DRAIN

- REFRIGERANT SUCTION
 - EXHAUST AIR
- SUPPLY AIR
- CUBIC FEET PER MINUTE CONDENSING UNIT
- EXHAUST FAN AIR AHNDLING UNIT
- SMOKE DETECTOR
- THERMOSTAT HUMIDISTAT

MATERIALS OF CONSTRUCTION:

DUCTWORK:

RODS, STRAPS, AND TRIM.

EXHAUST DUCTWORK: HOT DIPPED GALVANIZED SHEET METAL, ASTM-A-525. FABRICATE AND INSTALL IN ACCORDANCE WITH THE LATEST EDITION OF THE 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.' SMACNA APPROVED JOINTS, SEAMS AND REINFORCING FOR ±3" W.G.

SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK: HOT DIPPED GALVANIZED SHEET METAL, ASTM-A-525. FABRICATE AND INSTALL IN ACCORDANCE WITH THE LATEST EDITION OF THE 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE.' SMACNA APPROVED JOINTS, SEAMS AND REINFORCING FOR ±3" W.G. DUCTWORK SHALL INSULATED WITH FLEXIBLE FIBERGLAS BLANKET. 3" THICK 1-1/2" P.C.F DENSITY WITH A MINIMUM R VALUE OF 6.0. PROVIDE WITH ALL PURPOSE JACKET AND VAPOR RETARDER.

FLEXIBLE DUCTWORK: POLYESTER LAMINATED STEEL WIRE INNER CORE, R-6 LOW DENSITY FIBERGLASS BLANKET INSULATION WITH REINFORCED POLYESTER OUTER JACKET AND VAPOR BARRIER. UL STD. 181 APPROVED, CLASS 1 CONNECTOR. FLEXIBLE DUCTWORK SHALL BE LIMITED TO 6'-0" IN LENGTH.

VOLUME DAMPERS: SHALL BE MULTIBLADE TYPE, CONSTRUCTED OF ASTM-A-525 HOT DIPPED GALVANIZED SHEET METAL. FABRICATE DAMPERS IN ACCORDANCE WITH THE LATEST EDITION OF THE 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.'

DUCTWORK SEALANT: ALL DUCTWORK SEAMS AND JOINTS SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING SEALANT. 3% MAXIMUM ALLOWABLE DUCT SYSTEM LEAKAGE. SEALANT SHALL BE CLEAR IN COLOR.

ALL EXPOSED DUCT WORK SHALL BE PAINTED BLACK, ALL ASSOCIATED GRILLES, AND DIFFUSERS WITH EXPOSED DUCT SHALL BE BLACK AS WELL.

DUCTWORK SUPPORT MATERIALS: GALVANIZED STEEL FASTENERS, ANCHORS,

PAC	CKAGED	ROOFTOP L	INIT SCHEDUL	E (HW H	EAT/DX CO	OLING)	

				`																						
TAG MANUFAC	MANUEACTURER	JRER MODEL	MODEL	T ADEA CEDVED	AREA SERVED	ARFA SFRVFD	CFM		SU	SUPPLY FAN			DX COOLING (MODULATING)					HOT WATER HEAT				FILTER			OPERATING WEIGHT	NOTES
	MANOFACTORER		AREA SERVED	SA	OA	HP	TSP INCH	ESP INCH	MBH (TOT)	MBH (SENS)	DB	AT WB	DB	AT WB	REFRIG (TYP)	MBH (IN)	HWC #	ROWS	FPI	EWT	TER LWT	FILTER	VOLT/PH/HZ MC	CA MOCP	(LB)	110120
RTU-10	JCI	ZJ120C00R2B6BAA2A3	USDA SUITE	4142	562	3	-	.63	129.1	94.6	77.7	66.2	56.9	56.4	R-410A	70	10	1	10	190	160	MERV-8	208/3/60 5	64.9 60	1185	1 THROUGH 4

1. Provide Angle Filter rack with (2) sets of 2" MERV 8 Filters

2. Provide Service Lights in all accessible sections and Convenience Outlet at the Supply Fan Section

	mounted and wired VFD with Disconnect Swit	
Provide 14" tall	roof curb, Economizer, and Outside Air Hood	

DU	CTLESS S	SPLIT AIR	-COOLED	CONI	DENS	ING (JNIT S	CHE	DULE			
	MODEL No.				AMBIENT DB			EL	ECTRICAI	WEIGHT LBS.		
TAG		MANUFACTURER	SERVING	CAPACITY TONS	MAX. *F	MIN. *F	REFRIG. TYPE	CHARACTERISTICS			NOTES	
								VOLTAGE	MCA	MOCP		
CU-1	PUZ-A24NHA7	TRANE	SEE HVAC DWGS.	2	95.0	0	R-410A	208V/3ø	17.0A	27A	190	1,2,3,

- PROVIDE WITH ANTI-CORROSION PROTECTION.
- PROVIDE WITH DISCONNECT SWITCH. 3. PROVIDE UNIT WITH HYPER HEAT TECHNOLOGY

	DUC	TLESS AC	SPLIT SY	′STEM	SCHED	ULE (II	NDO	DR)			
	TAG	MODEL No.	MANUFCATURER	CAPACITY (BTUH)	CFM (HI/MED/LOW)	REFRIG. TYPE		ECTRICAL ACTERIS [®] MCA		WEIGHT LBS.	NOTES
	EVP-1	PKA-A24KA7	TRANE	24,000	741/635/512	R-410A	208V/1ø	2.63A	_	69	1,2,3,4,5
I											

TITUS

- 1. INSTALL EVAPORATOR UNIT PER MANUFACTURER INSTRUCTIONS. 2. PROVIDE W/DRAIN PAN FLOAT WIRED TO SHUT DOWN UNIT IF DRAIN PAN FLUID LEVEL BECOME TO HIGH.
- 3. PROVIDE WITH MINI CONDENSATE PUMP W/RESERVOIR & SENSOR (208/230V)
- 4. PROVIDE WITH REMOTE TEMPERATURE SENSOR/ HUMIDITY SENSOR. 5. PROVIDE WITH WIRELESS MA REMOTE CONTROLLER.

	VIOL VIIII VIII	VELECO MITT	KEMIOTE GOTTIN	· OLLEI (.									
DIF	DIFFUSER SCHEDULE												
TAG	SIZE	NECK	BLOW	BORDER	MANUFACTURER	MODEL	NOTES						
CD-1	12x12	DUCT SIZE	HORIZONTAL	LAY-IN	TITUS	OMNI	1,2						

1. MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH

CD-2 | 12x12 | DUCT SIZE | HORIZONTAL | LAY-IN

2. 4-WAY DIFFUSER 3. 3-WAY DIFFUSER

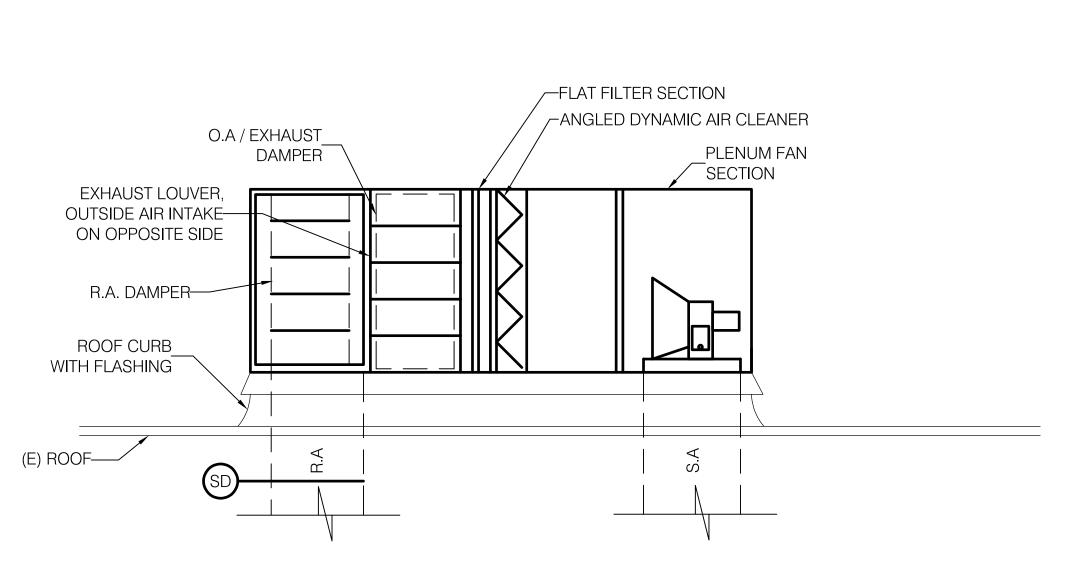
GR	ILLE S	CHEDUL	E		
TAG	SIZE	BORDER	MANUFACTURER	MODEL	NOTES
RG-1	24 " ø	ROUND	TITUS	TMR-AA	1,3
RG-2	12x12	LAY-IN	TITUS	350RL	1
RG-3	8"ø	ROUND	TITUS	TMR-AA	1,3
SG-1	12x8	REGISTER	TITUS	300FS	1,2
SG-2	14x8	SPIRAL GRILLE	TITUS	S300FL	1,2,3

MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH PROVIDE OPTIONAL AIR SCOOP DAMPER FOR BALANCING 3. PAINT BLACK TO MATCH SPIRAL DUCT COLOR

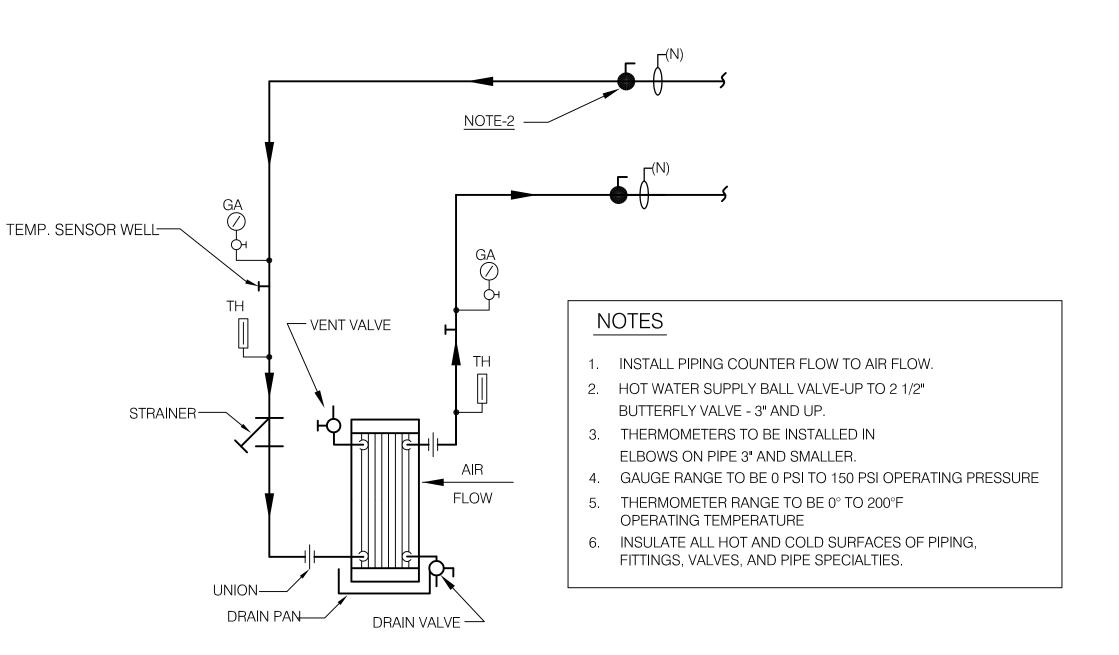
EXHAUST FAN SCHEDULE BASIS OF DESIGN ran MOTOR VOLTAGE TYPE | MOUNTING | CFM | ESP" DRIVE |RPM|WATTS| MODEL MANUFACTURER | CEILING | 150 | .25 | DIRECT | 817 | 17 1,2,3 EF-1 | EXHAUST GREENHECK SP-AP0511W

PROVIDE FAN WITH ECM MOTOR.

- PROVIDE ROOF VENT CAP
- 3. PROVIDE LOCAL SWITCH CONTROL FOR CONTINUOUS OPERATION



ROOF TOP UNIT DETAIL



PIPING ARRANGEMENT-HOT WATER COIL.



Interior design CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION

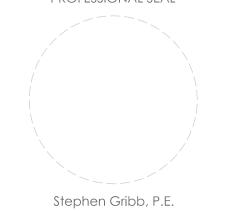
955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

CONSULTANT

PROJECT #:

SYSTEMS DESIGN ENGINEERING, INC

> PROJECT #: 23-0995-0139 Professional seal



s.gribb@sdei.net

COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

ISSUED DATE: ISSUED 08/17/23 ISSUE FOR BID

 Ω

P.M. e-MAIL: s.gribb@sdei.net DRAWN BY: B.S CLIENT PROJ #: -

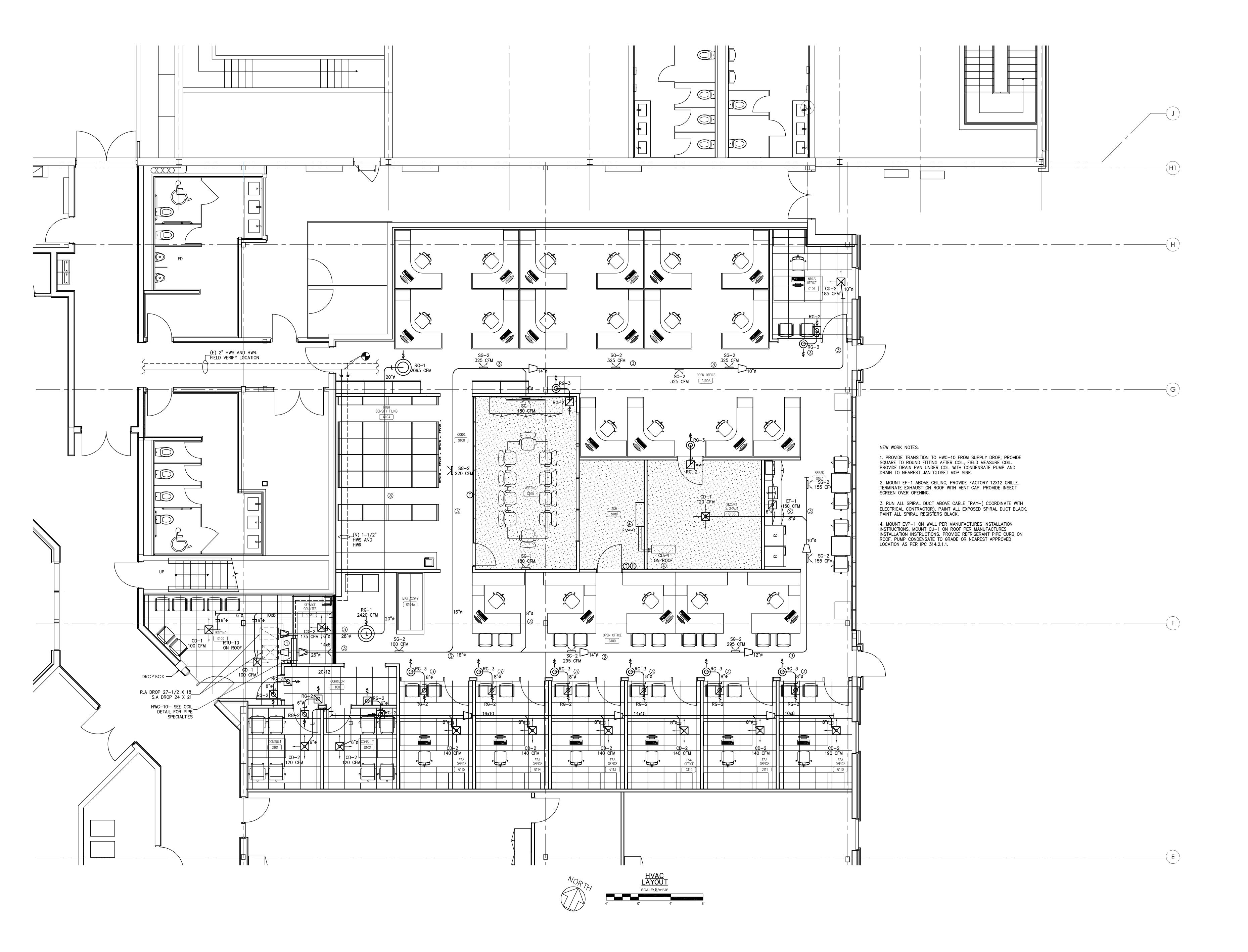
PROJ. MGR.: Stephen Gribb, P.E.

OPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR ANY

ART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED NTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF A CHITECTS, LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER AI atsoever, nor are they to be assigned to any thir arty without first obtaining the express writte PERMISSION AND CONSENT OF MUHLENBERG GREEN ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESS VED BY MUHLENBERG GREENE ARCHITECTS, LTD.

> HVAC COVER SHEET

SHEET TITLE:





ARCHITECTURAL DESIGN
INTERIOR DESIGN
CODE ANALYSIS
PLANNING SERVICES
REPORTS AND STUDIES
ENGINEERING SERVICES
HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

PROJECT #: 22-0012

SYSTEMS DESIGN
ENGINEERING, INC

1032 JAMES DR. LEESPORT, PA 19533
PHONE: 610.916.8500 FAX: 610.916.8501

SCHUYLKILL HAVEN, PA 570.385.5549

PROJECT #: 23-0995-0139 PROFESSIONAL SEAL



Stephen Gribb, P.E. s.gribb@sdei.net

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS
633 COURT STREET
READING, PA 19601
610.478.6201 X6220

610.478.6201 X6220
RLEVENGOOD@CountyOfBerks.gov

JSDA FIT-OUT

ISSUED

DATE: ISSUED 08/17/23

ISSUE FOR BID 08/17/23

PROJ. MGR.: Stephen Gribb, P.E.
P.M. e-MAIL: s.gribb@sdei.net

DRAWN BY: B.S

CLIENT PROJ #:
VERIFY SCALE

VERIFY SCALE

VERIFY SCALE

O

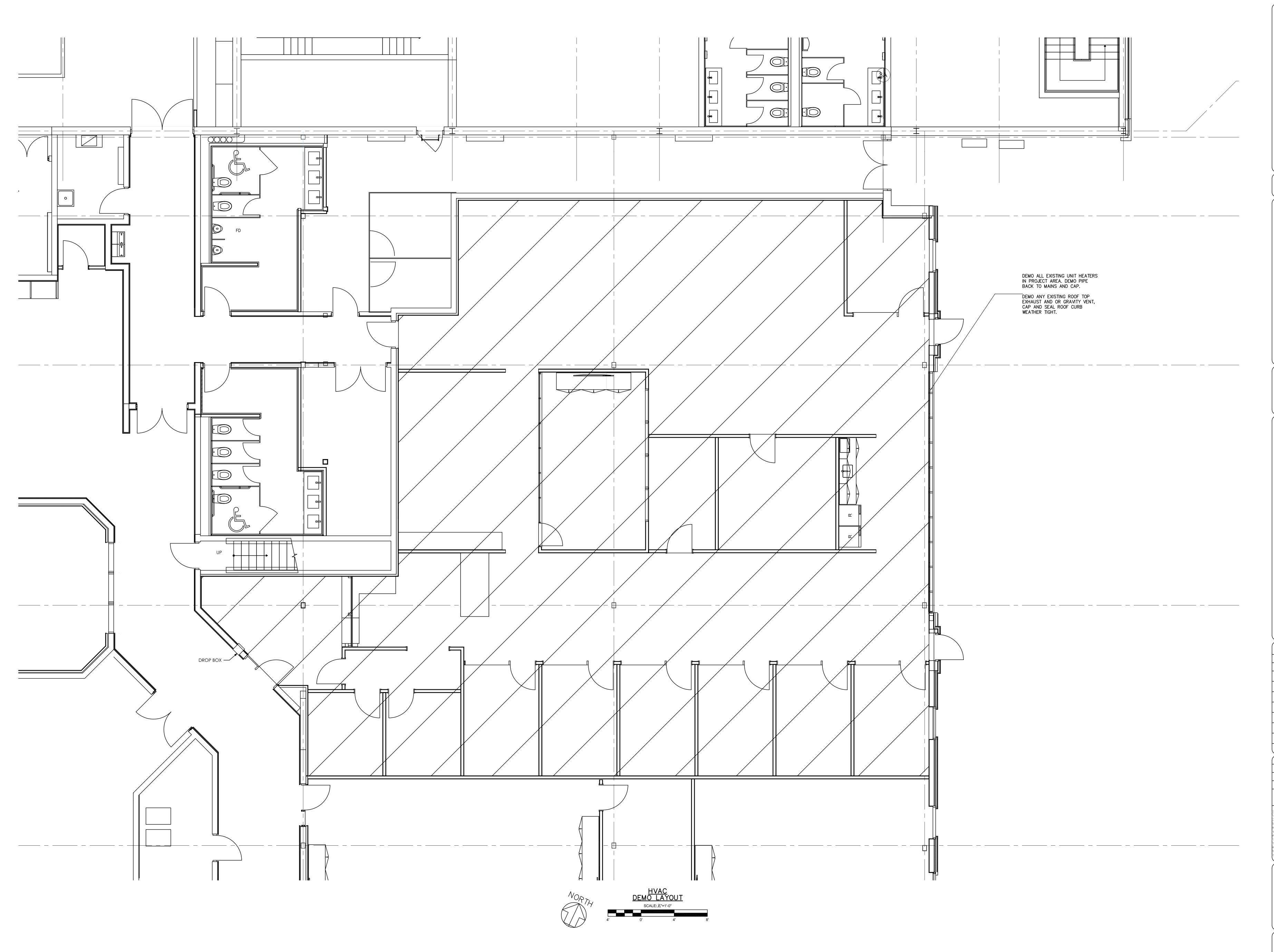
BAR IS ONE (1) INCH LONG ON ORIGINA

COPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR ANY PART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED, COPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUANT TO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS, LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

SHEET TITLE:

HVAC LAYOUT

H200





ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES reports and studies ENGINEERING SERVICES HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

PROJECT #:

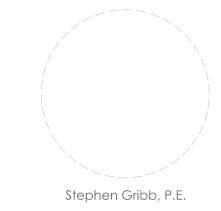
22-0012 CONSULTANT

SYSTEMS DESIGN ENGINEERING, INC

1032 JAMES DR. LEESPORT, PA 19533
PHONE: 610.916.8500 FAX: 610.916.8501

ENGINEERING, INC
BOYERTOWN, PA 610.3469.1319
SCHUYLKILL HAVEN, PA 570.385.5549

> PROJECT #: 23-0995-0139 Professional seal



s.gribb@sdei.net

COUNTY OF BERKS REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

BERKS

ISSUED DATE: ISSUED 08/17/23 ISSUE FOR BID PROJ. MGR.: Stephen Gribb, P.E.

P.M. e-MAIL: s.gribb@sdei.net DRAWN BY: B.S CLIENT PROJ #: -

COPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR ANY PART OF THIS DOCUMENT MAY BE AMENDED, REPRODUCED, CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNE WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD Party Without first obtaining the express Written Permission and consent of muhlenberg greene Architects, ltd. this document is an article of service and

he copyright and other property rights are expressly ESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD. SHEET TITLE: HVAC

DEMO LAYOUT

ELECTI	RICAL LEGEND		
NOTE: THIS LE	EGEND IS A STANDARD AND SOME ITEMS MAY NOT APPLY		
	NEW LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD	⟨s⟩ _p	PHOTOELECTRIC SMOKE DETECTOR
	EXISTING LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD	H) R/C	HEAT DETECTOR WITH RATE COMPENSATION
	DISTRIBUTION PANEL	(5) ID	IN - DUCT SMOKE DETECTOR
<u></u>	DISCONNECT SWITCH, 600V, HEAVY DUTY, QUICK MAKE, QUICK BREAK, SIZE AND NUMBER OF POLES AS INDICATED ON PLANS, FUSIBLE OR NON-FUSIBLE AS INDICATED ON PLANS.	F	FIRE ALARM MANUAL PULL STATION
	ENCLOSED CIRCUIT BREAKER, SIZE AND NUMBER OF POLES AS INDICATED ON PLANS.	FH	FIRE ALARM AUDIBLE APPLIANCE - HORN
	MAGNETIC MOTOR STARTER	™	FIRE ALARM AUDIBLE APPLIANCE-SPEAKER ONLY, WALL MOUNTED, 'W' INDICATES WATTAGE.
— \	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SMITCH, NEMA SIZE AS	5	FINAL WATTAGE TAP TO BE DETERMINED DURING AUDIBLE FIELD TEST.
VFD	INDICATED ON PLANS VARIABLE FREQUENCY DRIVE	S C	FIRE ALARM AUDIBLE APPLIANCE-SPEAKER ONLY, CEILING MOUNTED, 'W' INDICATES WATTAGE. FINAL WATTAGE TAP TO BE DETERMINED DURING AUDIBLE FIELD TEST.
(#)	MOTOR - HORSEPOWER AS INDICATED OR 'F' FOR FRACTIONAL	X cd	FIRE ALARM VISUAL APPLIANCE, WALL MOUNTED, 'CD' INDICATES CANDELA RATING
(J) [J]	JUNCTION BOX	CD CD	FIRE ALARM VISUAL APPLIANCE, CEILING MOUNTED, 'CD' INDICATES CANDELA RATING
E	EMERGENCY POWER OFF STATION	V c⊅	FIRE ALARM COMBINATION HORN / VISIBLE NOTIFICATION APPLIANCE, 'CD' INDICATES CANDELA RATING
EK	EMERGENCY POWER OFF STATION WITH KEY RESET	▼ cp	FIRE ALARM COMBINATION SPEAKER / VISIBLE NOTIFICATION APPLIANCE, 'CD' INDICATES
	HOME RUN TO PANELBOARD	Ď	CANDELA RATING, 'W' INDICATES WATTAGE. FINAL WATTAGE TAP TO BE DETERMINED DURING AUDIBLE FIELD TEST.
	INDICATES CONDUIT TURNING DOWN	MF	FLOW SWITCH
 0	INDICATES TURNING UP	V5	VALVE SUPERVISORY SWITCH
//	WIRING CONNECTED TO SAME CIRCUIT, CONTROLLED SEPARATELY	PS (PRESSURE SWITCH
Φ*	DUPLEX RECEPTACLE OUTLET, # INDICATES SPECIAL MODIFIER, COMMERCIAL SPECIFICATION GRADE, NEMA 5-20R, 125 VOLTS, HUBBELL #BR20, OR EQUIVALENT BY	(AIM)	ADDRESSABLE INPUT MONITOR MODULE
	LEVITON, PASS & SEYMOUR, OR ARROW HART. FINISH SELECTED BY THE ARCHITECT.	(AIO) #	ADDRESSABLE INPUT / OUTPUT MODULE, # DENOTES NUMBER OF INPUTS AND OUTPUTS
∯ ^{GF}	GF - DENOTES GROUND-FAULT CIRCUIT INTERRUPTER, HUBBELL #GFWRST20. FINISH SELECTED BY THE ARCHITECT.	(O) 	ADDRESSABLE OUTPUT MONITOR MODULE DICT SMOKE DETECTOR REMOTE ALARM / TEST / RESET STATION
ФтР	TP - DENOTES TAMPER RESISTANT RECEPTACLE, HUBBELL #BR20*TR. FINISH SELECTED BY THE ARCHITECT.	R FACP	DUCT SMOKE DETECTOR REMOTE ALARM / TEST / RESET STATION FIRE ALARM CONTROL PANEL
₩P	WP - DENOTES WEATHER PROOF, HUBBELL #GFWRST20, INSTALLED IN WEATHER TIGHT WHILE	FAA	FIRE ALARM ANNUNCIATOR
	IN USE COMER FINISH SELECTED BY THE ARCHITECT	NAC	FIRE ALARM NOTIFICATION APPLIANCE PANEL
	I.G DENOTES ISOLATED GROUND, HUBBELL #IG5352, WITH ORANGE, NYLON COVER PLATE	CR	CARD READER (FAIL OPEN IN EMERGENCY)
	C - DENOTES MOUNTED ABOVE COUNTER TOP OR CASEMORK	DB	DURESS BUTTON
₩ Φ	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER COMMON COVER PLATE)	DC	DOOR CONTACT - ROUGH-IN 3/4" CONDUIT AND PULL STRING FROM DOOR FRAME TO
¥ ⊘ #	SIMPLEX (SINGLE) RECEPTACLE, HUBBELL #HBL5361. SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS INDICATED ON PLANS	DM	ACCESSIBLE CEILING SPACE - COORDINATE FINAL ROUGH-IN LOCATION WITH G.C. DOOR MAGNETIC LOCK
Ψ	CORD REEL WITH DROP CORD, HUBBELL #HBLW25123W, PROVIDE NEMA L5-15 FE- MALE	DR	DOOR RELEASE BUTTON
⊕pc	CONNECTOR AT END OF CORD. PROVIDE RECEPTACLE AT CEILING FOR CORD REEL CONNECTION.	EB	EXIT BUTTON
	MOTOR RATED SMITCH, 30 AMP, 2 POLE, ALUMINUM COVER AND BASE, LOCKABLE IN THE	EL	ELECTRIC LOCK SET
\$M	'OFF' POSITION. MOUNT ON, OR ADJACENT TO EQUIPMENT. HUBBELL #HBL1372D, OR EQUIVALENT BY SQUARE D, EATON, OR SIEMENS.	ODC	OVERHEAD DOOR CONTACT
	FRACTIONAL HORSEPOWER MANUAL STARTER WITH MELTING ALLOY THERMAL OVERLOAD RELAY, 115 VOLTS, 16 AMP CONTINUOUS CURRENT RATING, TOGGLE OPERATOR, LOCKABLE IN	PIR	SECURITY SYSTEM MOTION DETECTOR
\$т	THE 'OFF' POSITION. MOUNT ON, OR ADJACENT TO EQUIPMENT. SQUARE D #FGI OR EQUIVALENT BY EATON OR SIEMENS.	KP	KEY PAD
lacktriangle	PHONE OUTLET, 'W' INDICATES WALL PHONE	REX	REQUEST TO EXIT
_	DATA OUTLET, NUMBER INDICATES TOTAL NUMBER OF PORTS IN WALL PLATE, PROVIDE	SD	SOUNDER (DOOR ALARM)
∇	FLUSH MOUNTED, SINGLE GANG, DEEP WALL BOX, AND I" CONDUIT TO ACCESSIBLE CEILING SPACE TERMINATE WITH PLASTIC BUSHING.	SM .	SINGLE MAGNETIC LOCK
T✓	CABLE TV OUTLET - PROVIDE FLUSH MOUNTED, SINGLE GANG, DEEP WALL BOX, AND I" CONDUIT TO ACCESSIBLE CEILING SPACE TERMINATE WITH PLASTIC BUSHING.	□¤ PTZ □¤	SECURITY CAMERA SECURITY CAMERA - PAN-TILT-ZOOM
(FLUSH POKE-THROUGH ASSEMBLY WITH QUAD RECEPTACLE, VOICE AND DATA; WIREMOLD	<u> </u>	SPEAKER, CEILING MOUNTED
	#RC4ATC, FINISHES SELECTED BY THE ARCHITECT.	5	SPEAKER, WALL MOUNTED
P	FLUSH POKE THROUGH ASSEMBLY WITH CONDUIT FEED THROUGH PROVISIONS FOR DIRECT CONNECTION OF POWER AND DATA, WIREMOLD #4FFATC, FINISHES SELECTED BY THE	VC	SPEAKER VOLUME CONTROL, WALL MOUNTED
	ARCHITECT.	SM	CLOCK, WALL MOUNTED
(\otimes)	FLUSH POKE THROUGH ASSEMBLY WITH ONE 2" CONDUIT FEED THROUGH FOR VOICE DATA (VD) OR AUDIO VIDEO (AV); WIREMOLD #RC9AM2TC, FINISHES SELECTED BY THE ARCHITECT.	М	MICROPHONE OUTLET, WALL MOUNTED, NUMBER INDICATES QUANTITY OF OUTLETS UNDER PLATE
▼ ⊕	PEDESTAL STYLE POKE THROUGH ASSEMBLY WITH RECEPTACLE AS SHOWN ON PLANS AND EQUIPMENT SCHEDULE; WIREMOLD #FIT WITH 200-H/BTC HEAD, AND FIFP FACEPLATES, FINISHES SELECTED BY THE ARCHITECT.	O 20A 3P	CIRCUIT BREAKER - AF=INDICATES AMPERE FRAME, AT=INDICATES AMPERE TRIP IP=SINGLE POLE, 2P=TWO POLE, 3P=THREE POLE
P	FLOOR BOX WITH QUAD RECEPTACLE, VOICE, AND DATA; WIREMOLD #RFB4 (RFB4-CI-I FOR SLAB ON GRADE), FINISHES SELECTED BY THE ARCHITECT.	020A 5T	CIRCUIT BREAKER WITH SHUNT-TRIP
\$	SINGLE POLE SWITCH, COMMERCIAL SPECIFICATION GRADE, HUBBELL #CSB120, OR EQUIVALENT BY LEVITON, PASS & SEYMOUR, OR ARROW HART.	o √ 3P	
\$₃	THREE-WAY SWITCH, COMMERCIAL SPECIFICATION GRADE, HUBBELL #C5320, OR EQUIVALENT BY LEVITON, PASS & SEYMOUR, OR ARROW HART.	6	GENERATOR
\$4	SINGLE POLE SWITCH, COMMERCIAL SPECIFICATION GRADE, HUBBELL #CSB420, OR EQUIVALENT BY LEVITON, PASS & SEYMOUR, OR ARROW HART.	\sim	TRANSFORMER
Φ.	WALL SWITCH TYPE OCCUPANCY SENSOR, LEVITON #05DIO-ID, OR EQUIVALENT BY WATT	0	NON-FUSED DISCONNECT SWITCH
\$05 	STOPPER, SENSORSWITCH, OR HUBBELL. FINISH SELECTED BY THE ARCHITECT.		FUSED DISCONNECT SWITCH
PC	PHOTO CONTROL SMITCH (MEATHER PROOF FOR OUTDOOR INSTALLATION)	{	CURRENT TRANSFORMER
PP	POWER / RELAY PACK FOR OCCUPANCY SENSOR	_ }⊱	POTENTIAL TRANSFORMER
<i>O</i> 5 #	CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED U = ULTRASONIC)(
_	U = ULTRASONIC D = DUAL TECHNOLOGY	∞	OVERLOAD RELAY
DS .	DAYLIGHT SENSOR	 }	NORMALLY OPEN CONTACTS NORMALLY CLOSED CONTACTS
\$p	DIMMING CONTROLLER - O-IO VOLT UNLESS OTHERWISE NOTED	1 1	
\$LV	LOW VOLTAGE SWITCH CONNECTED TO NETWORKED LIGHTING CONTROL SYSTEM.	0 0	START PUSH BUTTON
O #	RECESSED TROFFER OR FLAT PANEL LUMINAIRE, LETTER INDICATES TYPE, REFER TO LUMINAIRE SCHEDULE.		STOP PUSH BUTTON
# 0	RECESSED TROFFER OR FLAT PANEL LUMINAIRE CONNECTED TO BOTH NORMAL AND EMERGENCY POWER SOURCES, LETTER INDICATES TYPE, REFER TO LUMINAIRE SCHEDULE.	_ _	
	RECESSED DOWNLIGHT OR PENDANT LUMINAIRE, LETTER INDICATES TYPE, REFER TO	<u> </u>	HAND - OFF - AUTO SELECTOR SWITCH
0	LUMINAIRE SCHEDULE	L _o —,	
\bigotimes	WALL MOUNTED EXIT SIGN, FILLED SEGMENT INDICATES ILLUMINATED FACE, LETTER INDICATES TYPE, PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN	R	RELAY
\otimes	CEILING MOUNTED EXIT SIGN, FILLED SEGMENT INDICATES ILLUMINATED FACE, LETTER	\searrow	
	INDICATES TYPE, PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN WALL MOUNTED COMBINATION EXIT SIGN, EMERGENCY LIGHTING BATTERY UNIT, FILLED	6	PILOT LIGHT - 'R' FOR RED, 'G' FOR GREEN, 'A' FOR AMBER
\otimes	SEGMENT INDICATES ILLUMINATED FACE, LETTER INDICATES TYPE, PROVIDE DIRECTIONAL		

AUTOMATIC TRANSFER SWITCH

ELECTRICAL EQUIPMENT MO	DUNTING HEIGHT
WALL MOUNTED FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE (OR AS SHOWN ON ARCHITECTURAL DETAILS)	9" BELOW FINISHED CEILING
TV MONITOR OUTLETS AND SERVICE RECEPTACLES FOR SHELF MOUNTED TV	8'-0" ABOVE FINISHED FLOOR
WARNING AND SIGNALING LUMINAIRES / SIGNS	CENTERED ABOVE DOOR OR WINDOW OPENING
FIRE ALARM VISUAL NOTIFICATION APPLIANCE MOUNTED AT 6'-8" MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE DEVICE OR 6" BELOW FINISHED CEILING MEASURED FROM THE FINISHED CEILING TO THE TOP OF THE DEVICE, WHICHEVER IS LOWER	6'-8" ABOVE FINISHED FLOOR
TOP OF FLUSH AND SURFACE MOUNTED LIGHTING CONTROL PANELS OR POWER PANELBOARDS AND TELEPHONE CABINETS. TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES	6'-6" ABOVE FINISHED FLOOR
WALL MOUNTED TELEPHONE AND WALL MOUNTED INTERCOMS	4'-0" ABOVE FINISHED FLOOR
WALL MOUNTED ELECTRICAL DEVICES, SUCH AS, LIGHTING SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, AND FIRE ALARM PULL STATIONS.	4'-0" ABOVE FINISHED FLOOR
GF OUTLETS IN TOILET ROOMS ALL FLOOR EQUIPMENT IN LABS AND EQUIPMENT ROOMS	3'-6" ABOVE FINISHED FLOOR
ELECTRICAL RECEPTACLES INCLUDING THOSE USED WITHIN MECHANICAL SPACES AND ELEVATOR ROOMS, TELEPHONE, DATA, AND COMMUNICATION OUTLETS CATV AND AVY JUNCTION BOXES	I'-6" ABOVE FINISHED FLOOR
WALL CLOCK AT 8'-0" OR CENTER BETWEEN DOOR FRAME AND CEILING	8'-0" ABOVE FINISHED FLOOR

EMERGENCY LIGHTING BATTERY UNIT, LETTER INDICATES TYPE, REFER TO LUMINAIRE

ARROMS AS INDICATED ON PLAN

TWIN EMERGENCY LIGHTING REMOTE HEAD, LETTER INDICATES TYPE, REFER TO LUMINAIRE

POLE MOUNTED AREA LIGHTING LUMINAIRE, LETTER INDICATES TYPE, REFER TO LUMINAIRE

MOUNTING HEIGHTS ARE TO CENTER OF OUTLETS UNLESS SPECIFICALLY NOTED OTHERWISE. IN MASONRY CONSTRUCTION, THE ABOVE HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.

AF	AMPERE FRAME		
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
ARF	ABOVE RAISED FLOOR	MDF	MAIN DISTRIBUTION FRAME
AIC	AMPS INTERRUPTING CURRENT	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	MFR	MANUFACTURER
AS	AMP SENSOR	MH	MOUNTING HEIGHT
AT	AMPERE TRIP	MLO	MAIN LUGS ONLY
		MT	
ATS	AUTOMATIC TRANSFER SWITCH		MOUNT
A/C	AIR CONDITIONING	N	NEUTRAL
AFG	ABOVE FINISHED GRADE	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NL	NIGHT LIGHT
CL	CURRENT LIMITING	NO.	NUMBER
CLF	CURRENT LIMITING FUSE	NTS	NOT TO SCALE
CLG	CEILING	OFE	OWNER FURNISHED EQUIPMENT
CONTR	CONTRACTOR	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CAB	CABINET	PRI	PRIMARY
		PT	POTENTIAL TRANSFORMER
CND	CONDUIT	PVC	
CU	COPPER		POLYVINYL CHLORIDE
COND.	CONDENSING UNIT BY OTHERS	PWR	POWER
DISC	DISCONNECT	RECEPT	RECEPTACLE
DIST	DISTRIBUTION	REC	RECESSED .
D.O.	DRAW OUT	RF	RETURN FAN
DWG	DRAWING	RL	EXISTING SHOWN RELOCATED
EBH	ELECTRIC BASEBOARD HEAT	RM	ROOM
EC	ELECTRICAL CONTRACTOR	SCHED	SCHEDULE
EF	EXHAUST FAN	SEC	SECONDARY
ELEC	ELECTRICAL	SF	SUPPLY FAN
EM	EMERGENCY	SKRU	SOLENOID KEY RELEASE UNIT
EMT	ELECTRICAL METALLIC TUBING	5/N	SOLID NEUTRAL
ED	EXISTING TO BE DEMOLISHED	SM	SMITCH
Ē	EXISTING TO REMAIN	SWBD	SMITCHBOARD
ĒR	EXISTING TO BE RELOCATED	SWGR	SMITCHGEAR
EMC	ELECTRIC WATER COOLER	TDR	TIME DELAY RELAY
EMH	ELECTRIC WATER GOOLER ELECTRIC WATER HEATER	TEL	TELEPHONE
FA	FIRE ALARM	TF	TRANSFER FAN
FDR	FEEDER	TP TO	TWISTED PAIR
FIXT	FIXTURE	TYP	TYPICAL
FU	FUSE	UH	UNIT HEATER
GÆND	GROUND	UON	UNLESS OTHERWISE NOTED
GF	GROUND FAULT INTERRUPTER	V	V <i>O</i> LT
HOA	HAND - OFF - AUTOMATIC SWITCH	M	WATT
HP	HORSEPOWER	WP	WEATHERPROOF
HZ	HERTZ	XFMR	TRANSFORMER
IDF	INTERMEDIATE DISTRIBUTION FRAME		
16	ISOLATED GROUND		
JB	JUNCTION BOX		
ΚV	KILOVOLT		
KVA	KILOVOLT-AMPERES		
KW	KILOWATT		
L.E.D.	LIGHT EMITTING DIODE		
LTG.	LIGHTING		
MAX	MAXIMUM		
11/01	1 1/ 2 (1) 12(1)		

ſ	TYPE	DESCRIPTION	(DESIGN BASE)	CATALOG NO.	LAMPS	BALLAST / DRIVER	VOLTS	IVIIG	RMK
	A1	2'X2' L.E.D. TROFFER, FLOATING FLAT CENTER LENS.	XTRALIGHT	ART-22-3000L-35K-DIM-F	80+ CRI, 3500K, 3000 LUMEN, 30 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	CR	
	A2	SIMILAR TO TYPE A1, EXCEPT IN 2'x4' FORMAT	XTRALIGHT	ART-24-4500L-35K-DIM-F	80+ CRI, 3500K, 4500 LUMEN, 43 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	CR	
	B1	2'x2'BACK-LIT L.E.D. FLAT PANEL WITH SWITCHABLE LUMEN OUTPUT AND COLOR TEMPERATURE	COLUMBIA	CBT22-LS35	80+ CRI, 3500K, 3000 LUMEN, 28 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	CR	
L	B2	SIMILAR TO TYPE 'B1' EXCEPT IN 2'x4' FORMAT	COLUMBIA	CBT24-LS40	80+ CRI, 3500K, 4400 LUMEN, 38 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	CR	
		4' LINEAR , VAPOR-TIGHT L.E.D. LUMINAIRE WITH RIBBED, FROSTED ACRYLIC LENS, STAINLESS STEEL LATCHES, PENDANT MOUNT	XTRALIGHT	VTE-4-5000L-35K-DIM-RFA- PND-SSL	80+ CRI, 3500K, 5000 LUMENS, 45 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	Р	1
	C2	SIMILAR TO TYPE 'C1', EXCEPT WALL MOUNTED WITH 45 DEG. ANGLE BRACKET	XTRALIGHT	VTE-4-5000L-35K-DIM-RFA- 45B-SSL	80+ CRI, 3500K, 5000 LUMENS, 45 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	ws	2
	С3	SIMILAR TO TYPE 'C3', EXCEPT WITH 3500 LUMEN LIGHT ENGINE	XTRALIGHT	VTE-4-3500L-35K-DIM-RFA- PND-SSL	80+ CRI. 3500K, 3500 LUMENS, 26 WATT L.E.D. LIGHT ENGINE	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	Р	3
		4' LINEAR , L.E.D. STRIP LUMINAIRE WITH RIBBED, FROSTED ACRYLIC LENS, PENDANT MOUNT	XTRALIGHT	LRS-4-5000L-35K-DIM	80+ CRI, 3500K, 5000 LUMENS, 45 WATT L.E.D. LIGHT	MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277	Р	4
>	D2	MOD 3 L.E.D. PENDANT DIRECT, 14' LENGTH, SOFT, DIFFUSE, ACRYLIC LENS, MATTE WHITE FINISH, AIRCRAFT CABLE SUSPENSION, INTEGRAL OCCUPANCY SENSOR AND AUTOMATIC DIMMING PHOTOCELL LOCATED PER THE PLANS	LITECONTROL	3L-P-D-14-08-SOF-C1-35K9- D100-D01-1C-UNV-FA2-W3- NXERM	90+ CRI, 3500K, 1000	MFR'S STD 1%, 0-10V DIMMING DRIVER	120-277	Р	10
•	D3	SIMILAR TO TYPE 'D2' EXCEPT 10' LENGTH	LITECONTROL	3L-P-D-10-08-SOF-C1-35K9- D100-D01-1C-UNV-FA2-W3- NXERM		MFR'S STD 1%, 0-10V DIMMING DRIVER	120-277	Р	10
)	D4	SIMILAR TP TYPE 'D2' EXCEPT 8' LENGTH	LITECONTROL	3L-P-D-08-08-SOF-C1-35K9- D100-D01-1C-UNV-FA2-W3- NXERM	· · · · ·	MFR'S STD 1%. 0-10V DIMMING DRIVER	120-277	Р	10
	D5	SIMILAR TO TYPE 'D2' EXCEPT 6' LENGTH	LITECONTROL	3L-P-D-06-04-SOF-C1-35K9- D100-D01-1C-UNV-FA2-W3- NXERM	· · · ·	MFR'S STD 1%. 0-10V DIMMING DRIVER	120-277	Р	10
, [D6	SIMILAR TP TYPE 'D2', EXCEPT 4' IN LENGTH	LITECONTROL	3L-P-D-04-04-SOF-C1-35K9- D100-D01-1C-UNV-FA2-W3- NXERM	90+ CRI, 3500K, 1000	MFR'S STD 1%. 0-10V DIMMING DRIVER	120-277	Р	10
	D7	SIMILAR TO TYPE 'D2' EXCEPT 16' LENGTH	LITECONTROL	3L-P-D-16-08-SOF-C1-35K9- D100-D01-1C-UNV-FA2-W3- NXERM	90+ CRI, 3500K, 1000 LUMENS/FT., 9 WATTS/FT. L.E.D. LIGHT ENGINE	MFR'S STD 1%. 0-10V DIMMING DRIVER	120-277	Р	10
		4" ROUND, FLANGED DOWNLIGHT, REGRESSED SOLITE LENS, NARROW FLOOD OPTICS, MATTE WHITE FLANGE FINISH, AIRTIGHT/IC HOUSING	SPECIALTY LIGHTING INDUSTRIES	CR4D-RF-OR-F-AU-C14-35- 24-C1-P14-91A	90+ CRI, 3500K, 1075 LUMENS, 15 WATT L.E.D. LIGHT ENGINE	MFR'S STD 1% 0-10V DIMMING DRIVER	120-277	CR	
		6" ROUND, FLANGED DOWNLIGHT, REGRESSED SOLITE LENS, FLOOD OPTICS, MATTE WHITE FLANGE FINISH, AIRTIGHT / IC HOUSING	SPECIALTY LIGHTING INDUSTRIES	CR6D-RF-F-AU-C16-35-38- C1-P14-91A	90+ CRI, 3500K, 2235 LUMENS, 19 WATT L.E.D. LIGHT ENGINE	MFR'S STD 1% 0-10V DIMMING DRIVER	120-277	CR	
	F3	6" ROUND, FLANGED DOWNLIGHT, REGRESSED SOLITE LENS, FLOOD OPTICS, FLANGE FINISH SELECTED BY THE ARCHITECT, AIRTIGHT / IC HOUSING	SPECIALTY LIGHTING INDUSTRIES	CR6D-RF-F-AU-C16-35-38- C1-XXX-91A	90+ CRI, 3500K, 2235 LUMENS, 19 WATT L.E.D. LIGHT ENGINE	MFR'S STD 1% 0-10V DIMMING DRIVER	120-277	CR	5
		2.5" ROUND, FLANGED DOWNLIGHT, REGRESSED SOLITE LENS, SPOT OPTICS, AIRTIGHT / IC HOUSING, DROP GLASS DECORATIVE ELEMENT, ARCHITECT TO CHOOSE BEZEL AND FLANGE FINISH	SPECIALTY LIGHTING INDUSTRIES	SCOD-R-DG-F-BP-C14-35K- 10-C1-91L	90+ CRI, 3500K, 1075 LUMENS, 15 WATT L.E.D. LIGHT ENGINE	MFR'S STD 1% 0-10V DIMMING DRIVER	120-277	CR	6
	F5	4" ROUND, FLANGED DOWNLIGHT, REGRESSED			90+ CRI, 3500K, 1425	MFR'S STD 1% 0-10V DIMMING			
ملس		SOLITE LENS, NARROW FLOOD OPTICS, FLANGE FINISH SELECTED BY THE ARCHITECT, AIRTIGHT	SPECIALTY LIGHTING INDUSTRIES	CR4D-RF-OR-F-AU-C20-35- 24-C1-XXX-91A	LUMENS, 21 WATT L.E.D. LIGHT ENGINE	DRIVER	120-277	CR	5
	~	·			· ·		120-277	CR CR	5
	F6	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT (18 10 10 10 10 10 10 10 10 10 10 10 10 10	INDUSTRIES	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL-	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN,	MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V	~~	~	11
	F6	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT (SECONDO OF THE ARCHITECT, AIRTIGHT 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC	INDUSTRIES ALPHABET	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER	120-277	CR	~
	F6 F7	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT //SUDESING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT	INDUSTRIES ALPHABET KIRLIN	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF-	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V	120-277 120-277	CR P	11
	F6 F7 G1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT //SUDESING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE	INDUSTRIES ALPHABET KIRLIN LITECONTROL	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE-	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED	120-277 120-277 120-277	CR P CR	11 7
	F6 F7 G1 H1 J1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SELECTION 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT	ALPHABET KIRLIN LITECONTROL VODE	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X-	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN,	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277 120-277 120-277	CR P CR COVE	11 7
	F6 F7 G1 H1 J1 K1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SELECTION 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X-	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277	CR P CR COVE	11 7
	F6 F7 G1 H1 J1 K1 L1 M1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SELECTING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS,	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XXX-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X- SC1-HM-GPX16-XXX-XX-XX	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE	MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277	CR P CR COVE WS	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SELECTION 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITECT TO SELECTEINISHES NELO+ SERIES OPEN APERTURE PENDANT INDIRECT/DIRECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X- SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35- SY1-XXX SL2DC-LSF-STM-36-XX-F8- 35-SY1-XXX	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1 M2	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT //SUDENING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITECT TO SELECT FINISHS NELO+ SERIES OPEN APERTURE PENDANT INDIRECT/DIRECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER 1/ DIA: ARCHITECTORAL FENDANT WITH OF AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT CONTROL, ARCHITECT TO SELECT FINISHES	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING INDUSTRIES	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X- SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35- SY1-XXX SL2DC-LSF-STM-36-XX-F8- 35-SY1-XXX 75L-P-ID-STD-12'-08-C1- 35K-I100-D080-D01-1C-	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 760 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1000 LUMENS/FT INDIRECT, 800 LUMENS/FOOT DIRECT, 13.5 TOTAL WATTS/FOOT L.E.D.	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1 M2	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT //SUDDING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITECT TO SELECT FINISHS NELO+ SERIES OPEN APERTURE PENDANT INDIRECT/DIRECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER 17 DIA: ARCHITECTORAL FENDANT WITH OF AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT CONTROL, ARCHITECT TO	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING INDUSTRIES LITECONTROL	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X- SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35- SY1-XXX SL2DC-LSF-STM-36-XX-F8- 35-SY1-XXX 75L-P-ID-STD-12'-08-C1- 35K-I100-D080-D01-1C- UNV-ECO-FA1-W3-L1 P5917-35-HX-35-HI-XX- XXXX-12FT-DCDM WDGE1 LED P1 30K 80CRI VW MVOLT DMG DBLBXD	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT L-F D-LIGHT ENGINE 80+ CRI, 3500K, 1000 LUMENS/FT INDIRECT, 800 LUMENS/FOOT DIRECT, 13.5 TOTAL WATTS/FOOT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 4985 LUMENS, 51 WATTS UP, 2135 LUMENS, 22 WATTS DOWN, L.E.D. LIGHT ENGINES 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR P	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1 M2	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SELECTION 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITECT TO SELECTEINISTICS NELO+ SERIES OPEN APERTURE PENDANT INDIRECT/DIRECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER 17 DIA: ARCHITECTORAL FENDANT WITH OF AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT CONTROL, ARCHITECT TO SELECT FINISHES WEDGE SHAPED ARCHITECTURAL WALL SCONE, WIDE OPTICAL DISTRIBUTION, TEXTURED	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING INDUSTRIES LITECONTROL IMPACT ARCHITECTURAL LIGHTING	24-C1-XXX-91A RA-SW-25LM-35-80-D40-UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL-35K-UNV 4L-WS2-LG-D-XX-X-X-SOF-C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE-2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2-CP104-PA17 GPX16GV-37L-35K-DS10X-SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35-SY1-XXX SL2DC-LSF-STM-36-XX-F8-35-SY1-XXX 75L-P-ID-STD-12'-08-C1-35K-I100-D080-D01-1C-UNV-ECO-FA1-W3-L1 P5917-35-HX-35-HI-XX-XXXX-12FT-DCDM WDGE1 LED P1 30K 80CRI	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT L-F D-LICHT ENGINE 80+ CRI, 3500K, 1000 LUMENS/FT INDIRECT, 800 LUMENS/FOOT DIRECT, 13.5 TOTAL WATTS/FOOT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 4985 LUMENS, 51 WATTS UP, 2135 LUMENS, 22 WATTS DOWN, L.E.D. LIGHT ENGINES 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D.	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1%, 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR P	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1 M2 N1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT //SUPERING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITECT TO SELECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER 17 DIA. ARCHITECTORAL PENDANT WITH OF AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT CONTROL, ARCHITECT TO SELECT FINISHES WEDGE SHAPED ARCHITECTURAL WALL SCONE, WIDE OPTICAL DISTRIBUTION, TEXTURED BLACK FINISH. SIMILAR TO TYPE 'O1', EXCEPT WITH SURFACE	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING INDUSTRIES LITECONTROL IMPACT ARCHITECTURAL LIGHTING LITHONIA	24-C1-XXX-91A RA-SW-25LM-35-80-D40- UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL- 35K-UNV 4L-WS2-LG-D-XX-X-X-SOF- C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE- 2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2- CP104-PA17 GPX16GV-37L-35K-DS10X- SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35- SY1-XXX 75L-P-ID-STD-12'-08-C1- 35K-I100-D080-D01-1C- UNV-ECO-FA1-W3-L1 P5917-35-HX-35-HI-XX- XXXX-12FT-DCDM WDGE1 LED P1 30K 80CRI VW MVOLT DMG DBLBXD WDGE1 LED P1 30K 80CRI VW MVOLT PBBW DMG	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT L.F.D. NICHT ENGINE 80+ CRI, 3500K, 1000 LUMENS/FT INDIRECT, 800 LUMENS/FOOT DIRECT, 13.5 TOTAL WATTS/FOOT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 4985 LUMENS, 51 WATTS UP, 2135 LUMENS, 52 WATTS DOWN, L.E.D. LIGHT ENGINES 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR P P WS	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1 O1 O2 P1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SUBSTING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITECT TO SELECT FINISH'S NELO+ SERIES OPEN APERTURE PENDANT INDIRECT/DIRECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER 17 DIA. ARCHITECTONAL FINDANT WITH OF AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT CONTROL, ARCHITECT TO SELECT FINISHES WEDGE SHAPED ARCHITECTURAL WALL SCONE, WIDE OPTICAL DISTRIBUTION, TEXTURED BLACK FINISH. SIMILAR TO TYPE '01', EXCEPT WITH SURFACE MOUNTED BACK-BOX. WEDGE SHAPED ARCHITECTURAL WALL PACK, I.E.S. TYPE III CUT-OFF OPTICAL DISTRIBUTION,	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING INDUSTRIES LITECONTROL IMPACT ARCHITECTURAL LIGHTING LITHONIA LITHONIA	24-C1-XXX-91A RA-SW-25LM-35-80-D40-UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL-35K-UNV 4L-WS2-LG-D-XXX-X-SOF-C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE-2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2-CP104-PA17 GPX16GV-37L-35K-DS10X-SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35-SY1-XXX 75L-P-ID-STD-12'-08-C1-35K-I00-D080-D01-1C-UNV-ECO-FA1-W3-L1 P5917-35-HX-35-HI-XX-XXXX-12FT-DCDM WDGE1 LED P1 30K 80CRI VW MVOLT DMG DBLBXD WDGE3 LED P2 30K 80CRI VM MGE3 LED P2 30K 80CRI	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1000 LUMENS/FT INDIRECT, 800 LUMENS/FOOT DIRECT, 13.5 TOTAL WATTS/FOOT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 4985 LUMENS, 51 WATTS UP, 2135 LUMENS, 22 WATTS DOWN, L.E.D. LIGHT ENGINES 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE 80+ CRI, 3000K, 6985 LUMENS, 59 WATT L.E.D. LIGHT	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 10% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR P WS WS	11 7 8
	F6 F7 G1 H1 J1 K1 L1 M1 O1 O2 P1	FINISH SELECTED BY THE ARCHITECT, AIRTIGHT // SUPPOSING 6" ROUND, ADJUSTABLE, DOWNLIGHT, FLANGE AND TRIM FINISH SELECTED BY THE ARCHITECT, 40 DEG. DIFFUSE OPTIC 3" DIA. X 12" HIGH CYLINDER DOWNLIGHT, MEDIUM FLOOD OPTICS LINEAR L.E.D. WALL SLOT, 2" REGRESS, SOFT DIFFUSE LENS, MATTE WHITE FINISH LINEAR INDIRECT COVE LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM RLM LUMINAIRE WITH 17" ARM MOUNT, FROSTED GLASS DOME, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES DECORATIVE L.E.D. HIGH BAY LUMINAIRE, CAST GLASS REFRACTOR, SINGLE METAL RING BOTTOM RING, ARCHITECT TO SELECT ALL LUMINAIRE FINISHES CONTINUOUS LINEAR LENSED L.E.D. DOWNLIGHT, INTERGRAL DRIVER, ARCHITECT TO SELECT TRIM FINISH 2" LINEAR, LENSED, PENDANT LUMINAIRE, TO BE SUSPENDED BETWEEN ACOUSTICAL PANELS, ARCHITEST TO SELECTEINISHS NELO+ SERIES OPEN APERTURE PENDANT INDIRECT/DIRECT, LINEAR L.E.D. LUMINAIRE, 12' LENGTH, MATTE WHITE FINISH, OPEN STLE END CAPS, CLEAR ACRYLIC DUST COVER 17 DIA: ARCHITECTORAL FENDANT WITH UI AND DOWN LIGHT COMPONENT, SPUN ALUMINUM HOUSING, SEPARATE UP LIGHT AND DOWN LIGHT CONTROL, ARCHITECT TO SELECT FINISHES WEDGE SHAPED ARCHITECTURAL WALL SCONE, WIDE OPTICAL DISTRIBUTION, TEXTURED BLACK FINISH. SIMILAR TO TYPE '01', EXCEPT WITH SURFACE MOUNTED BACK-BOX. WEDGE SHAPED ARCHITECTURAL WALL PACK, I.E.S. TYPE III CUT-OFF OPTICAL DISTRIBUTION, TEXTURED BLACK FINISH SIMILAR TO TYPE '91', EXCEPT WITH SURFACE	ALPHABET KIRLIN LITECONTROL VODE SPECTRUM SPECTRUM SPECIALTY LIGHTING INDUSTRIES SPECIALTY LIGHTING INDUSTRIES LITECONTROL IMPACT ARCHITECTURAL LIGHTING LITHONIA LITHONIA	24-C1-XXX-91A RA-SW-25LM-35-80-D40-UNV-DIM10-NC-WH-WH LSC-03RDN-12IN-4000-MFL-35K-UNV 4L-WS2-LG-D-XX-X-X-SOF-C1-35K-D700-D01-1C-UNV 707-Z9-SL-XX-XX-AC-X-IP-AE-2-0-Z-SO-359-C1-0-AL-0 WS1210GV-15L-35K-TF2-CP104-PA17 GPX16GV-37L-35K-DS10X-SC1-HM-GPX16-XXX-XX-XX SL1DC-LFRC-AF-36-F4-35-SY1-XXX 75L-P-ID-STD-12'-08-C1-35K-I00-D080-D01-1C-UNV-ECO-FA1-W3-L1 P5917-35-HX-35-HI-XX-XXXXX-12FT-DCDM WDGE1 LED P1 30K 80CRI VW MVOLT DMG DBLBXD WDGE3 LED P2 30K 80CRI R3 DMG DBBXD WDGE1 LED P2 30K 80CRI R3 DMG DBBXD WDGE1 LED P2 30K 80CRI R3	ENGINE 80+ CRI, 3500K, 2465 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 4000 LUMEN, 36 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 700 LUMENS/FT, 6.1 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 750 LUMENS/FT, 6.7 WATTS/FT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 1500 LUMEN, 15 WATT L.E.D. LIGHT ENGINE 80+ CRI, 3500K, 3700 LUMEN, 26 WATT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 316 LUMENS/FT, 5 WATTS/FT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 790 LUMENS/FT, 10 WATTS/FT L-F D- LIGHT ENGINE 80+ CRI, 3500K, 1000 LUMENS/FT INDIRECT, 800 LUMENS/FOOT DIRECT, 13.5 TOTAL WATTS/FOOT L.E.D. LIGHT ENGINE 90+ CRI, 3500K, 4985 LUMENS, 22 WATTS DOWN, L.E.D. LIGHT ENGINES 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE 80+ CRI, 3000K, 1200 LUMENS, 10 WATT, L.E.D. LIGHT ENGINE 80+ CRI, 3000K, 6985 LUMENS, 59 WATT L.E.D. LIGHT ENGINE	DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD, 1% 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V ELDOLED DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER MFR'S STD 1% 0-10V DIMMING DRIVER MFR'S STD 1%, 0-10V DIMMING DRIVER MFR'S STD 10%, 0-10V DIMMING DRIVER	120-277 120-277 120-277 120-277 120-277 120-277 120-277 120-277 120-277	CR P CR COVE WS P CR P WS WS	11 7 8

LUMINAIRE SCHEDULE

BALLAST / DRIVER | VOLTS | MTG | RMK

MANUFACTURER

MOUNTING LEGEND

R = RECESSED

C = CEILING 1. IN FORENSIC'S GARAGE, SUSPEND AT 12' A.F.F. TO BOTTOM. IN ALL OTHER SPACES, SUSPEND AT 10'-0" A.F.F. TO BOTTOM W = WALL2. WALL MOUNT AT 9'-0" A.F.F. TO BOTTOM OF LUMINAIRE. S = SURFACE

3. IN MEZZANINES, SUSPEND AT 9'-0" A.F.F. TO BOTTOM OF LUMINAIRE. 4. PROVIDE CHAIN OR STAINLESS STEEL AIRCRAFT CABLE ACCESSORY. IN FIRST FLOOR STORAGE AND CORRIDORS, SUSPEND AT 10'-0" TO BOTTOM. IN MEZZAN

SPACES, SUSPEND AT 9'-0" A.F.F. TO BOTTOM. 5. PROVIDE FULL COMPATIBILITY WITH ARMSTRONG WOODWORKS TEGULAR CEILING SYSTEM.

CENTER ABOVE COUNTER BELOW

7. WALL SLOT SYSTEM SHALL BE CONTINUOUS FROM WALL TO WALL AS INDICATED. PROVIDE STRAIGHT EXTENSIONS AS REQUIRED TO ASSURE A CONTINUOU APPEARANCE. PROVIDE END CAPS AT EACH END. 8. LUMINAIRE TO BE INSTALLED IN ARMSTRONG AXIOM COVE SYSTEM. VERIFY SPECIFIC AXIOM SYSTEM WITH ARCHITECT PRIOR TO ORDERING LUMINAIRE.

CONTRACTOR TO FIELD VERIFY LENGTH OF EACH COVE SECTION AND SUBMIT DIMENSIONED SHOP DRAWINGS INDICATING DETAILS OF EACH SECTION AND OVERALL SYSTEM IN EACH ONFERENCE/MEETING ROOM.

9. PROVIDE FULL COMPATIBILITY WITH ARMSTRONG WOODWORKS GRILLE FORTE CEILING SYSTEM.

10. BOTTOM OF LUMINAIRE SHALL BE AT 10'-0" ABOVE FINISHED FLOOR.

.. PROVIDE RACO #256 BOX AND #767 RAISED COVER, PAINT BLACK. . BOTTOM OF LUMINAIRE SHALL BE AT 8'-0" ABOVE FINISHED FLOOR.

ARCHITECTURAL DESIGN INTERIOR DESIGN CODE ANALYSIS PLANNING SERVICES reports and studies ENGINEERING SERVICES HISTORIC PRESERVATION 955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610

> PROJECT #: 22-0012

610.376.4927 www.MG-Architects.com

CONSULTANT SYSTEMS DESIGN

> PROJECT #: 22-0995-0133 PROFESSIONAL SEAL

> > Stephen Gribb, P.E. s.gribb@sdei.net

REX LEVENGOOD REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601

RLEVENGOOD@CountyOfBerks.gov

ISSUED DATE: ISSUED 8/17/23

PROJ. MGR.: S. Gribb P.M. e-MAIL: s.gribb@sdei.net DRAWN BY: S.B.G

CLIENT PROJ #:

Copyright © 2020 all rights reserved neither all nor any

Copied or used in any form or manner except pursuan TO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MUHLENBERG GREENE ARCHITECTS, LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGE OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO B ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING express written permission and consent of muhlenber GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE C SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS A EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD. SHEET TITLE:

ELECTRICAL

KEYED DRAWING NOTES LUMINAIRE, BRANCH CIRCUIT, AND ASSOCIATED CONTROLS INCLUDED IN SHELL PACKAGE. PREFERRED LOCATION OF ON-BOARD CONTROLS. (TYPICAL). PROVIDE CAT 5 PATCH CABLE BETWEEN LUMINAIRE INTEGRAL CONTROL MODULE AND ON-OFF-RAISE-LOWER CONTROLS FOR THIS ZONE. SEQUENCE OF OPERATION FOR OPEN OFFICE WORKSTATION AREA LIGHTING I. LIGHTING WILL BE MANUALLY ACTIVATED AT ONE OF THE 'ON-OFF-RAISE-LOWER' CONTROLS ASSOCIATED WITH THE 2. LUMINAIRES WILL REMAIN ACTIVATED IF ANY OF THE ON BOARD OCCUPANCY SENSORS IN THE ZONE DETECT MOTION OR UNTIL MANUALLY EXTINGUISHED AT ONE OF THE 'ON-OFF-RAISE-LOWER' CONTROLS ASSOCIATED WITH THE LIGHTING ZONE. A 20 MINUTE TIME OUT PERIOD WILL APPLY FOR OCCUPANCY DETECTION. 3. LUMINAIRE OUTPUT MAY BE MANUALLY CONTROLLED AT ONE THE 'ON-OFF-RAISE-LOWER' CONTROLS ASSOCIATED WITH THE LIGHTING ZONE. IF LUMINAIRES ARE LOCATED IN A DAYLIGHTING ZONE, THE 'ON-BOARD' DAYLIGHTING SENSOR WILL CONTROL THE MAXIMUM OUTPUT LEVEL FOR THAT INDIVIDUAL LUMINAIRE.

CURRENT LIGHTING CONTROLS WALL MOUNT PIR OCCUPANCY SENSOR #LO-IRHBB. QUANTITY AS SHOWN ON

CURRENT LIGHTING CONTROLS SMART SMITCH #NXSMR-ORLO-

ON A V

-PLENUM RATED CAT 5 NETWORK

CABLE UNLESS NOTED

CONTROLLER -

#NXRCFX2-IRD-UNV

NO OCCUPANCY IS DETECTED.

3. ARCHITECT WILL SELECT ALL FINISHES.

<u>NOTES</u>

\$LVa,D

CONTROLS ROOM #NXRCFX2-IRD-UNV

CURRENT LIGHTING CONTROLS UL 924 OAD CONTROLLER #NXRC-UL924-UNV-U

O-IOV DIM

UN-SWITCHED CIRCUIT - REFER TO

PLAN FOR CIRCUIT NUMBER----

SMITCHED HOT

CURRENT LIGHTING

CONTROLS BLUETOOTH

RADIO BRIDGE #NXBTC -

WAITING GIOO LIGHTING CONTROL DIAGRAM

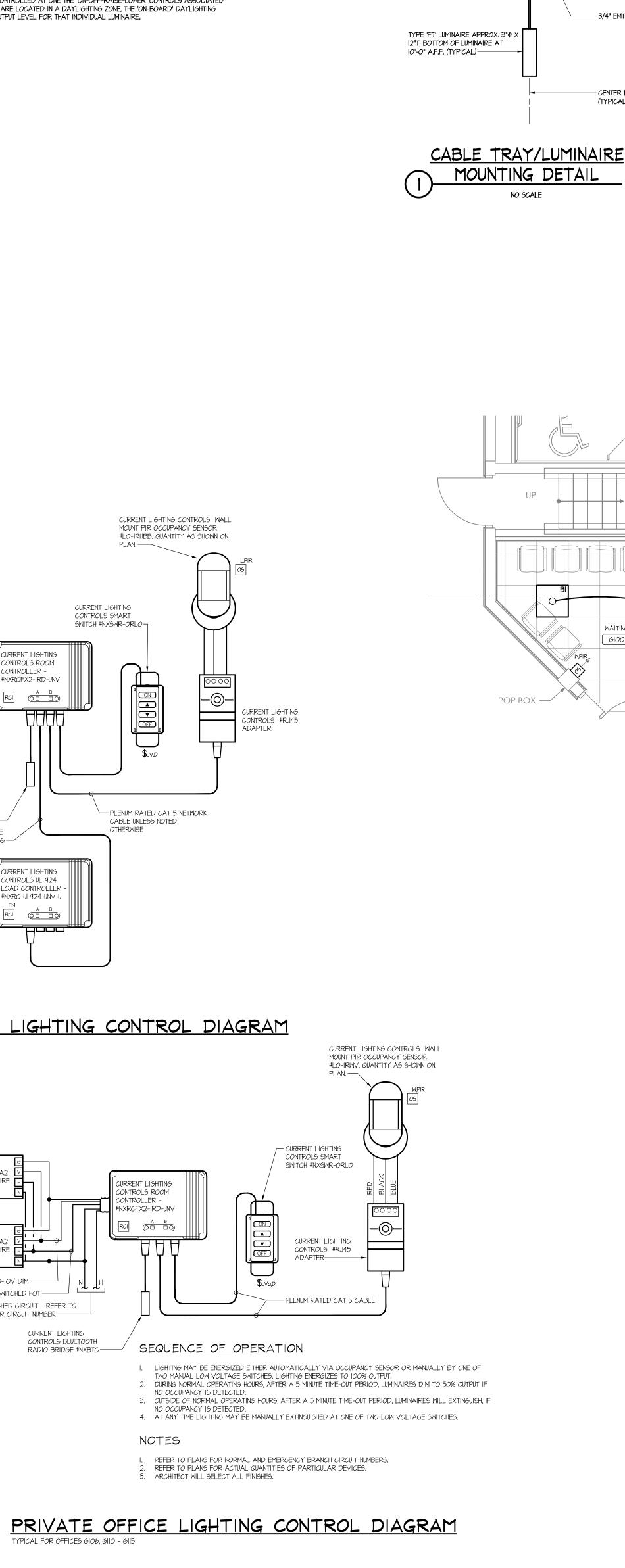
SWITCHED HOT -UN-SWITCHED CIRCUIT - REFER TO PLAN FOR CIRCUIT NUMBER ---

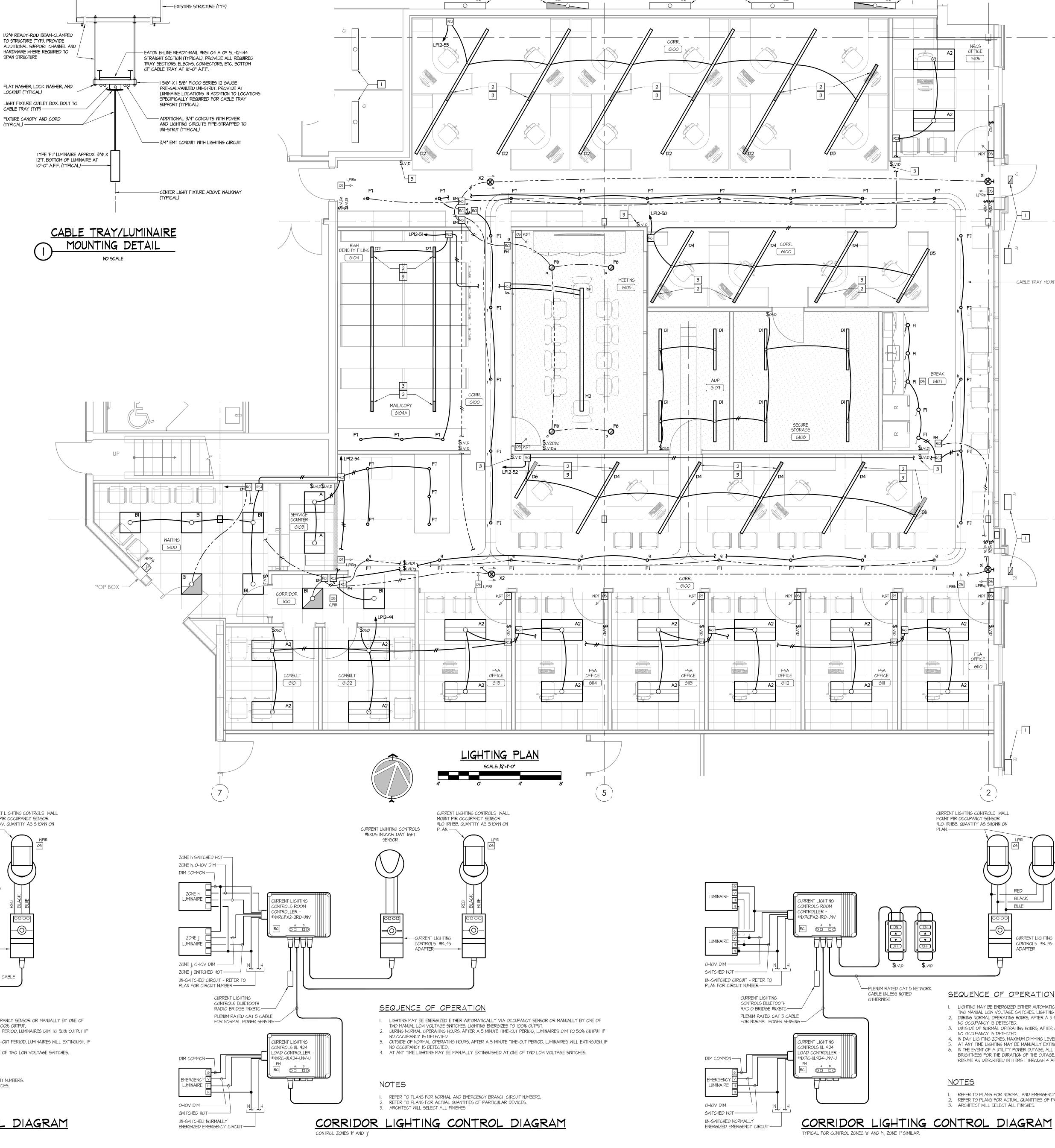
UN-SWITCHED NORMALLY

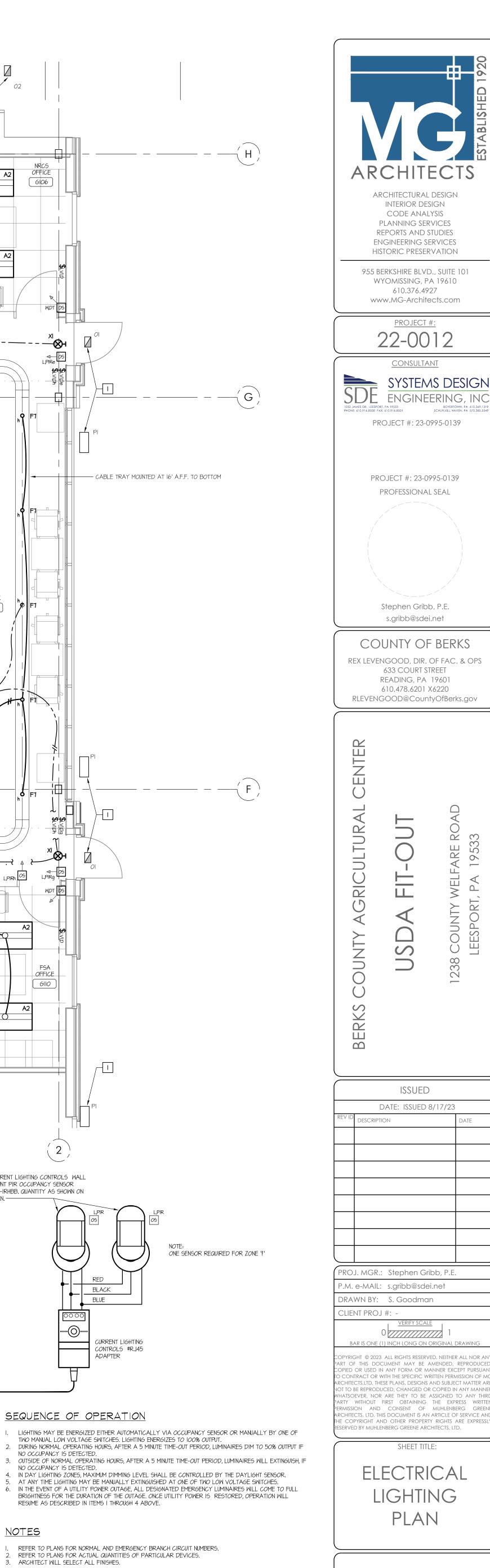
CURRENT LIGHTING CONTROLS BLUETOOTH

RADIO BRIDGE #NXBTC —

PLENUM RATED CAT 5 CABLE FOR NORMAL POWER SENSING -







CABLE TRAY MOUNTED AT 16' A.F.F. TO BOTTOM

CURRENT LIGHTING CONTROLS WALL MOUNT PIR OCCUPANCY SENSOR

#LO-IRHBB. QUANTITY AS SHOWN ON

CURRENT LIGHTING
CONTROLS #RJ45

TWO MANUAL LOW VOLTAGE SWITCHES. LIGHTING ENERGIZES TO 100% OUTPUT.

REFER TO PLANS FOR NORMAL AND EMERGENCY BRANCH CIRCUIT NUMBERS.

REFER TO PLANS FOR ACTUAL QUANTITIES OF PARTICULAR DEVICES.

SEQUENCE OF OPERATION

RESUME AS DESCRIBED IN ITEMS I THROUGH 4 ABOVE.

NO OCCUPANCY IS DETECTED.

3. ARCHITECT WILL SELECT ALL FINISHES.

ARCHITECTURAL DESIGN

INTERIOR DESIGN CODE ANALYSIS

PLANNING SERVICES

REPORTS AND STUDIES

ENGINEERING SERVICES

HISTORIC PRESERVATION

610.376.4927

<u>CONSULTANT</u>

PROFESSIONAL SEAL

Stephen Gribb, P.E.

s.gribb@sdei.net

633 COURT STREET READING, PA 19601 610.478.6201 X6220

ISSUED

DATE: ISSUED 8/17/23

SHEET TITLE:

CABLE TRAY NOTES

LADDER CABLE TRAYS

- A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
- I. ALLIED TUBE & CONDUIT; A TYCO INTERNATIONAL LTD. CO.
- 2. CHALFANT MANUFACTURING COMPANY. 3. B-LINE, INC. (DESIGN BASE) 4. MONO-SYSTEMS, INC.

MP HUSKY. B. DESCRIPTION:

- CONFIGURATION: TWO I-BEAM SIDE RAILS WITH TRANSVERSE RUNGS WELDED TO SIDE RAILS.
- . RUNG SPACING: 9 INCHES O.C. . RADIUS-FITTING RUNG SPACING: 9 INCHES AT CENTER OF TRAY'S WIDTH,
- I. MINIMUM CABLE-BEARING SURFACE FOR RUNGS: 7/8-INCH WIDTH WITH RADIUS EDGES. NO PORTION OF THE RUNGS SHALL PROTRUDE BELOW THE BOTTOM PLANE OF SIDE RAILS. 6. STRUCTURAL PERFORMANCE OF EACH RUNG: CAPABLE OF SUPPORTING A MAXIMUM CABLE LOAD, WITH A
- SAFETY FACTOR OF 1.5, PLUS A 200-LB CONCENTRATED LOAD, WHEN TESTED ACCORDING TO NEMA VE I. MINIMUM USABLE LOAD DEPTH: 4 INCHES. 8. STRAIGHT SECTION LENGTHS: 10 FEET, EXCEPT WHERE SHORTER LENGTHS ARE REQUIRED TO FACILITATE TRAY
- 9. WIDTH: 12 INCHES AND 18 INCHES, UNLESS OTHERWISE INDICATED ON DRAWINGS. IO. FITTING MINIMUM RADIUS: 12 INCHES.
- SPLICING ASSEMBLIES: BOLTED TYPE USING SERRATED FLANGE LOCKNUTS. HARDWARE AND FASTENERS: ASTM F 593 AND ASTM F 594 STAINLESS STEEL, TYPE 316.
- 13. SPLICE PLATE CAPACITY: SPLICES LOCATED WITHIN SUPPORT SPAN SHALL NOT DIMINISH RATED LOADING CAPACITY OF CABLE TRAY.

MATERIALS AND FINISHES

A. ALUMINUM:

MATERIALS: ALLOY 6063-T6 ACCORDING TO ANSI H35.I/H 35.IM FOR EXTRUDED COMPONENTS, AND ACCORDING TO ANSI H35.I/H 35.IM FOR FABRICATED PARTS. 2. HARDWARE: STAINLESS STEEL, TYPE 316, ASTM F 593 AND ASTM F 594

CABLE TRAY ACCESSORIES

- A. FITTINGS: TEES, CROSSES, RISERS, ELBOWS, AND OTHER FITTINGS AS INDICATED, OF SAME MATERIALS AND FINISHES
- BARRIER STRIPS: SAME MATERIALS AND FINISHES AS FOR CABLE TRAY. CABLE TRAY SUPPORTS AND CONNECTORS, INCLUDING BONDING JUMPERS, AS RECOMMENDED BY CABLE TRAY MANUFACTURER.

A. LETTERING: 1-1/2-INCH HIGH, BLACK LETTERS ON YELLOW BACKGROUND WITH LEGEND "WARNING! NOT TO BE USED AS WALKWAY, LADDER, OR SUPPORT FOR LADDERS OR PERSONNEL." SOURCE QUALITY CONTROL

A. Testing: Test and inspect cable trays according to NEMA VE I.

- CABLE TRAY INSTALLATION
- A. INSTALL CABLE TRAYS ACCORDING TO NEMA VE 2 B. INSTALL CABLE TRAYS AS A COMPLETE SYSTEM, INCLUDING FASTENERS, HOLD-DOWN CLIPS, SUPPORT SYSTEMS, BARRIER STRIPS, ADJUSTABLE HORIZONTAL AND VERTICAL SPLICE PLATES, ELBOWS, REDUCERS, TEES, CROSSES, CABLE DROPOUTS, ADAPTERS, COVERS, AND BONDING.
- . INSTALL CABLE TRAYS SO THAT THE TRAY IS ACCESSIBLE FOR CABLE INSTALLATION AND ALL SPLICES ARE ACCESSIBLE FOR INSPECTION AND ADJUSTMENT.
- REMOVE BURRS AND SHARP EDGES FROM CABLE TRAYS.
- JOIN ALUMINUM CABLE TRAY WITH SPLICE PLATES; USE FOUR SQUARE-NECK CARRIAGE BOLTS AND LOCKNUTS. FASTEN CABLE TRAY SUPPORTS TO BUILDING STRUCTURE AND INSTALL SEISMIC RESTRAINTS. DESIGN FASTENERS AND SUPPORTS TO CARRY CABLE TRAY, THE CABLES, AND A CONCENTRATED LOAD OF 200 LB.
- COMPLY WITH REQUIREMENTS IN SECTION 260529 "HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS."[COMPLY WITH SEISMIC-RESTRAINT DETAILS ACCORDING TO SECTION 260548 "VIBRATION AND SEISMIC CONTROLS FOR
- H. PLACE SUPPORTS SO THAT SPANS DO NOT EXCEED MAXIMUM SPANS ON SCHEDULES AND PROVIDE CLEARANCES SHOWN ON DRAWINGS. INSTALL INTERMEDIATE SUPPORTS WHEN CABLE WEIGHT EXCEEDS THE LOAD-CARRYING CAPACITY OF THE TRAY RUNGS.
- CONSTRUCT SUPPORTS FROM CHANNEL MEMBERS, THREADED RODS, AND OTHER APPURTENANCES FURNISHED BY CABLE TRAY MANUFACTURER. ARRANGE SUPPORTS IN TRAPEZE OR WALL-BRACKET FORM AS REQUIRED BY APPLICATION. PROVIDE ADDITIONAL TRAPEZE SUPPORTS AS REQUIRED TO SUPPORT LUMINAIRE PENDANTS; REFER TO
- DETAIL, DRAWING E-103. SUPPORT BUS ASSEMBLY TO PREVENT TWISTING FROM ECCENTRIC LOADING. LOCATE AND INSTALL SUPPORTS ACCORDING TO NEMA VE 2. DO NOT INSTALL MORE THAN ONE CABLE TRAY
- SPLICE BETWEEN SUPPORTS. MAKE CONNECTIONS TO EQUIPMENT WITH FLANGED FITTINGS FASTENED TO CABLE TRAYS AND TO EQUIPMENT.
- SUPPORT CABLE TRAYS INDEPENDENT OF FITTINGS. DO NOT CARRY WEIGHT OF CABLE TRAYS ON EQUIPMENT
- . MAKE CHANGES IN DIRECTION AND ELEVATION USING MANUFACTURER'S RECOMMENDED FITTINGS. MAKE CABLE TRAY CONNECTIONS USING MANUFACTURER'S RECOMMENDED FITTINGS.
- SEAL PENETRATIONS THROUGH FIRE AND SMOKE BARRIERS. COMPLY WITH REQUIREMENTS IN SECTION 078413
- P. INSTALL CAPPED METAL SLEEVES FOR FUTURE CABLES THROUGH FIRESTOP-SEALED CABLE TRAY PENETRATIONS OF
- INSTALL CABLE TRAYS WITH ENOUGH WORKSPACE TO PERMIT ACCESS FOR INSTALLING CABLES. INSTALL WARNING SIGNS IN VISIBLE LOCATIONS ON OR NEAR CABLE TRAYS AFTER CABLE TRAY INSTALLATION.
- THE ENTIRE CABLE TRAY SYSTEM SHALL BE PAINTED BLACK TO MATCH THE OPEN SPACE CEILING PAINT-COORDINATE WITH THE GENERAL CONTRACTOR.

CABLE TRAY GROUNDING

A. GROUND CABLE TRAYS ACCORDING TO NFPA TO UNLESS ADDITIONAL GROUNDING IS SPECIFIED. COMPLY WITH REQUIREMENTS IN SECTION 260526 "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."

- B. CABLE TRAYS WITH ELECTRICAL POWER CONDUCTORS SHALL BE BONDED TOGETHER WITH SPLICE PLATES LISTED FOR GROUNDING PURPOSES OR WITH LISTED BONDING JUMPERS.
- WHEN USING EPOXY- OR POWDER-COAT PAINTED CABLE TRAYS AS A GROUNDING CONDUCTOR, COMPLETELY REMOVE COATING AT ALL SPLICE CONTACT POINTS OR GROUND CONNECTOR ATTACHMENT. AFTER COMPLETING SPLICE-TO-GROUNDING-BOLT ATTACHMENT, REPAIR THE COATED SURFACES WITH COATING MATERIALS
- RECOMMENDED BY CABLE TRAY MANUFACTURER. D. BOND CABLE TRAYS TO POWER SOURCE FOR CABLES CONTAINED WITHIN WITH BONDING CONDUCTORS SIZED ACCORDING TO NFPA TO, ARTICLE 250.122, "SIZE OF EQUIPMENT GROUNDING CONDUCTORS."

CABLE INSTALLATION

- A. INSTALL CABLES ONLY WHEN EACH CABLE TRAY RUN HAS BEEN COMPLETED AND INSPECTED. FASTEN CABLES ON HORIZONTAL RUNS WITH CABLE CLAMPS OR CABLE TIES ACCORDING TO NEMA VE 2. TIGHTEN CLAMPS ONLY ENOUGH TO SECURE THE CABLE, WITHOUT INDENTING THE CABLE JACKET. INSTALL CABLE TIES WITH A
- TOOL THAT INCLUDES AN AUTOMATIC PRESSURE-LIMITING DEVICE. FASTEN CABLES ON VERTICAL RUNS TO CABLE TRAYS EVERY 18 INCHES. FASTEN AND SUPPORT CABLES THAT PASS FROM ONE CABLE TRAY TO ANOTHER OR DROP FROM CABLE TRAYS TO EQUIPMENT ENCLOSURES. FASTEN CABLES TO THE CABLE TRAY AT THE POINT OF EXIT AND SUPPORT CABLES INDEPENDENT OF THE ENCLOSURE. THE CABLE LENGTH BETWEEN CABLE TRAYS OR BETWEEN CABLE TRAY AND

IN EXISTING CONSTRUCTION, REMOVE INACTIVE OR DEAD CABLES FROM CABLE TRAYS. **CONNECTIONS**

- A. REMOVE PAINT FROM ALL CONNECTION POINTS BEFORE MAKING CONNECTIONS. REPAIR PAINT AFTER THE
- CONNECTIONS ARE COMPLETED. B. CONNECT RACEWAYS TO CABLE TRAYS ACCORDING TO REQUIREMENTS IN NEMA VE 2.

ENCLOSURE SHALL BE NO MORE THAN 72 INCHES.

FIELD QUALITY CONTROL

- A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS: I. AFTER INSTALLING CABLE TRAYS AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, SURVEY FOR COMPLIANCE WITH REQUIREMENTS.
- 2. VISUALLY INSPECT CABLE INSULATION FOR DAMAGE. CORRECT SHARP CORNERS, PROTUBERANCES IN CABLE TRAYS, VIBRATIONS, AND THERMAL EXPANSION AND CONTRACTION CONDITIONS, WHICH MAY CAUSE OR HAVE
- CAUSED DAMAGE. 3. VERIFY THAT THE NUMBER, SIZE, AND VOLTAGE OF CABLES IN CABLE TRAYS DO NOT EXCEED THAT PERMITTED BY NFPA 70. VERIFY THAT COMMUNICATIONS OR DATA-PROCESSING CIRCUITS ARE SEPARATED FROM POWER
- CIRCUITS BY BARRIERS OR ARE INSTALLED IN SEPARATE CABLE TRAYS. 4. VERIFY THAT THERE ARE NO INTRUDING ITEMS SUCH AS PIPES, HANGERS, OR OTHER EQUIPMENT IN THE CABLE 5. REMOVE DUST DEPOSITS, INDUSTRIAL PROCESS MATERIALS, TRASH OF ANY DESCRIPTION, AND ANY BLOCKAGE
- OF TRAY VENTILATION. 6. VISUALLY INSPECT EACH CABLE TRAY JOINT AND EACH GROUND CONNECTION FOR MECHANICAL CONTINUITY. CHECK BOLTED CONNECTIONS BETWEEN SECTIONS FOR CORROSION. CLEAN AND RETORQUE IN SUSPECT AREAS.
- 7. CHECK FOR IMPROPERLY SIZED OR INSTALLED BONDING JUMPERS. 8. CHECK FOR MISSING, INCORRECT, OR DAMAGED BOLTS, BOLT HEADS, OR NUTS. WHEN FOUND, REPLACE WITH
- 9. PERFORM VISUAL AND MECHANICAL CHECKS FOR ADEQUACY OF CABLE TRAY GROUNDING; VERIFY THAT ALL TAKEOFF RACEWAYS ARE BONDED TO CABLE TRAYS. TEST ENTIRE CABLE TRAY SYSTEM FOR CONTINUITY. MAXIMUM ALLOWABLE RESISTANCE IS I OHM. B. PREPARE TEST AND INSPECTION REPORTS.

A. PROTECT INSTALLED CABLE TRAYS AND CABLES.

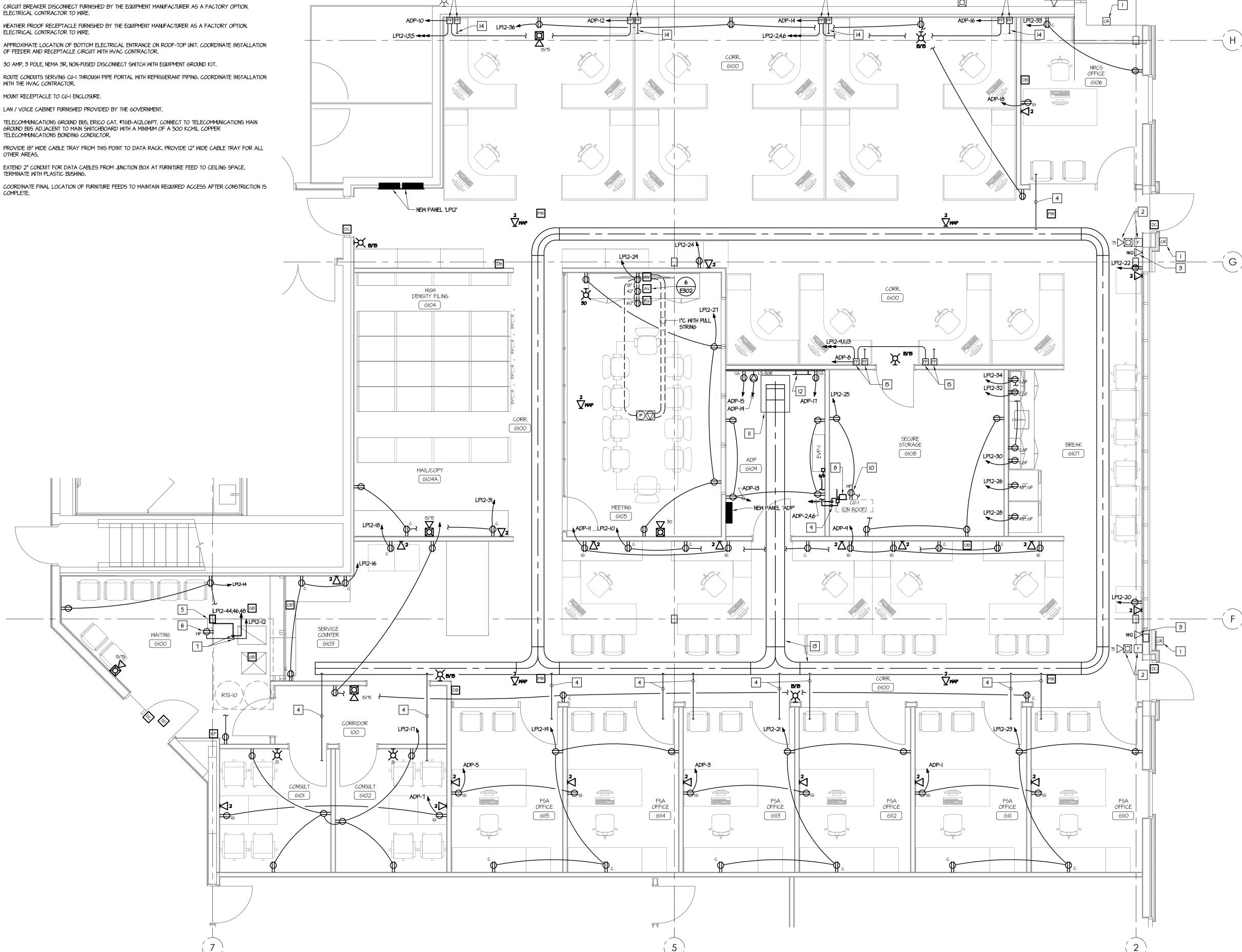
- I. INSTALL TEMPORARY PROTECTION FOR CABLES IN OPEN TRAYS TO SAFEGUARD EXPOSED CABLES AGAINST FALLING OBJECTS OR DEBRIS DURING CONSTRUCTION. TEMPORARY PROTECTION FOR CABLES AND CABLE TRAY CAN BE CONSTRUCTED OF WOOD OR METAL MATERIALS AND SHALL REMAIN IN PLACE UNTIL THE RISK OF DAMAGE IS OVER.
- 2. REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY CABLE TRAY MANUFACTURER. 3. REPAIR DAMAGE TO PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY CABLE TRAY MANUFACTURER.

KEYED DRAWING NOTES

- CARD READER PROVIDED AS PART OF SHELL PACKAGE.
- FIRE ALARM DEVICE PROVIDED AS PART OF SHELL PACKAGE.
- EXISTING DATA JACK SERVING CARD READER OR CCTV CAMERA PROVIDED AS PART OF SHELL PACKAGE.

p(5) - 2

- EXTEND 2" CONDUIT, WITH PULL STRING, FROM CABLE TRAY TO THE CEILING SPACE ABOVE ENCLOSED OFFICE OR CONSULT SPACE. TERMINATE EACH END WITH A PLASTIC BUSHING.
- CIRCUIT BREAKER DISCONNECT FURNISHED BY THE EQUIPMENT MANUFACTURER AS A FACTORY OPTION. ELECTRICAL CONTRACTOR TO WIRE.
- ELECTRICAL CONTRACTOR TO WIRE. APPROXIMATE LOCATION OF BOTTOM ELECTRICAL ENTRANCE ON ROOF-TOP UNIT. COORDINATE INSTALLATION
- OF FEEDER AND RECEPTACLE CIRCUIT WITH HVAC CONTRACTOR. 30 AMP, 3 POLE, NEMA 3R, NON-FUSED DISCONNECT SWITCH WITH EQUIPMENT GROUND KIT.
- WITH THE HVAC CONTRACTOR. MOUNT RECEPTACLE TO CU-I ENCLOSURE.
- LAN / VOICE CABINET FURNISHED PROVIDED BY THE GOVERNMENT.
- TELECOMMUNICATIONS GROUND BUS, ERICO CAT. #TGB-AI2LO6PT. CONNECT TO TELECOMMUNICATIONS MAIN GROUND BUS ADJACENT TO MAIN SWITCHBOARD WITH A MINIMUM OF A 500 KCMIL COPPER
- TELECOMMUNICATIONS BONDING CONDUCTOR. PROVIDE 18" WIDE CABLE TRAY FROM THIS POINT TO DATA RACK, PROVIDE 12" WIDE CABLE TRAY FOR ALL
- EXTEND 2" CONDUIT FOR DATA CABLES FROM JUNCTION BOX AT FURNITURE FEED TO CEILING SPACE.
- TERMINATE WITH PLASTIC BUSHING.
- COORDINATE FINAL LOCATION OF FURNITURE FEEDS TO MAINTAIN REQUIRED ACCESS AFTER CONSTRUCTION IS



POWER AND SYSTEMS PLAN



PROJECT #: CONSULTANT

SYSTEMS DESIGN ENGINEERING, INC 1032 JAMES DR. LEESPORT, PA 19533 PHONE: 610.916.8500 FAX: 610.916.8501 PROJECT #: 23-0995-0139

PROFESSIONAL SEAL



s.gribb@sdei.net COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

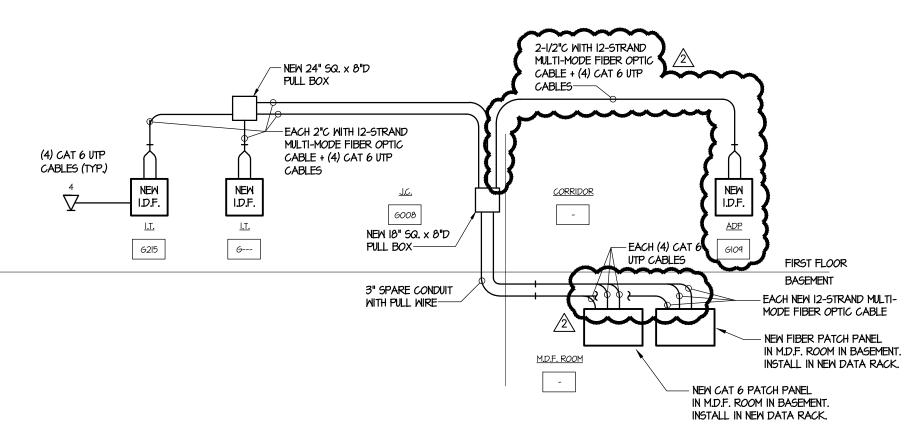
TUR S BER

=					
		ISS	UED		
	D	ATE: ISS	UED 8/1	7/23	
REV ID	DESCRIPTIO	NC			DATE
PRO.	J. MGR.:	Stephe	n Gribb	, P.E.	
Р.М.	e-MAIL:	s.gribb	@sdei.n	et	
DRA	WN BY:	S. Goo	dman		
CLIE	NT PROJ	#: -			

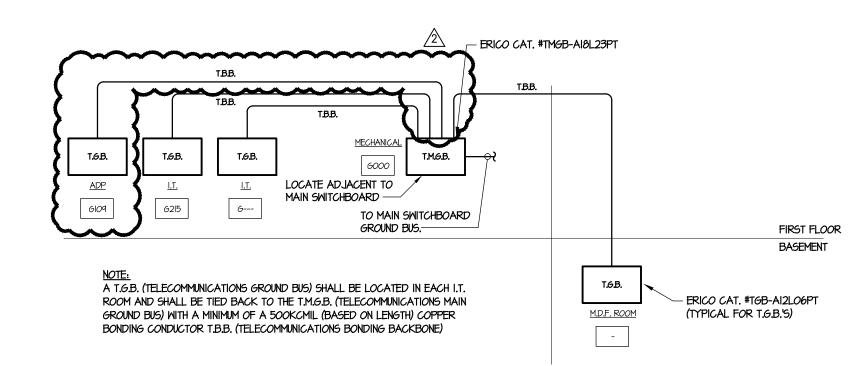
DPYRIGHT © 2023 ALL RIGHTS RESERVED. NEITHER ALL NOR ANY RT OF THIS DOCUMENT MAY BE AMENDED, REPRODUCE DPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUAI CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF M CHITECTS,LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER AF OT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNE HATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRE arty without first obtaining the express written ermission and consent of muhlenberg green rchitects, Ltd. this document is an article of service ai e copyright and other property rights are expressi SERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

ELECTRICAL POWER & SYSTEMS PLAN

E-203

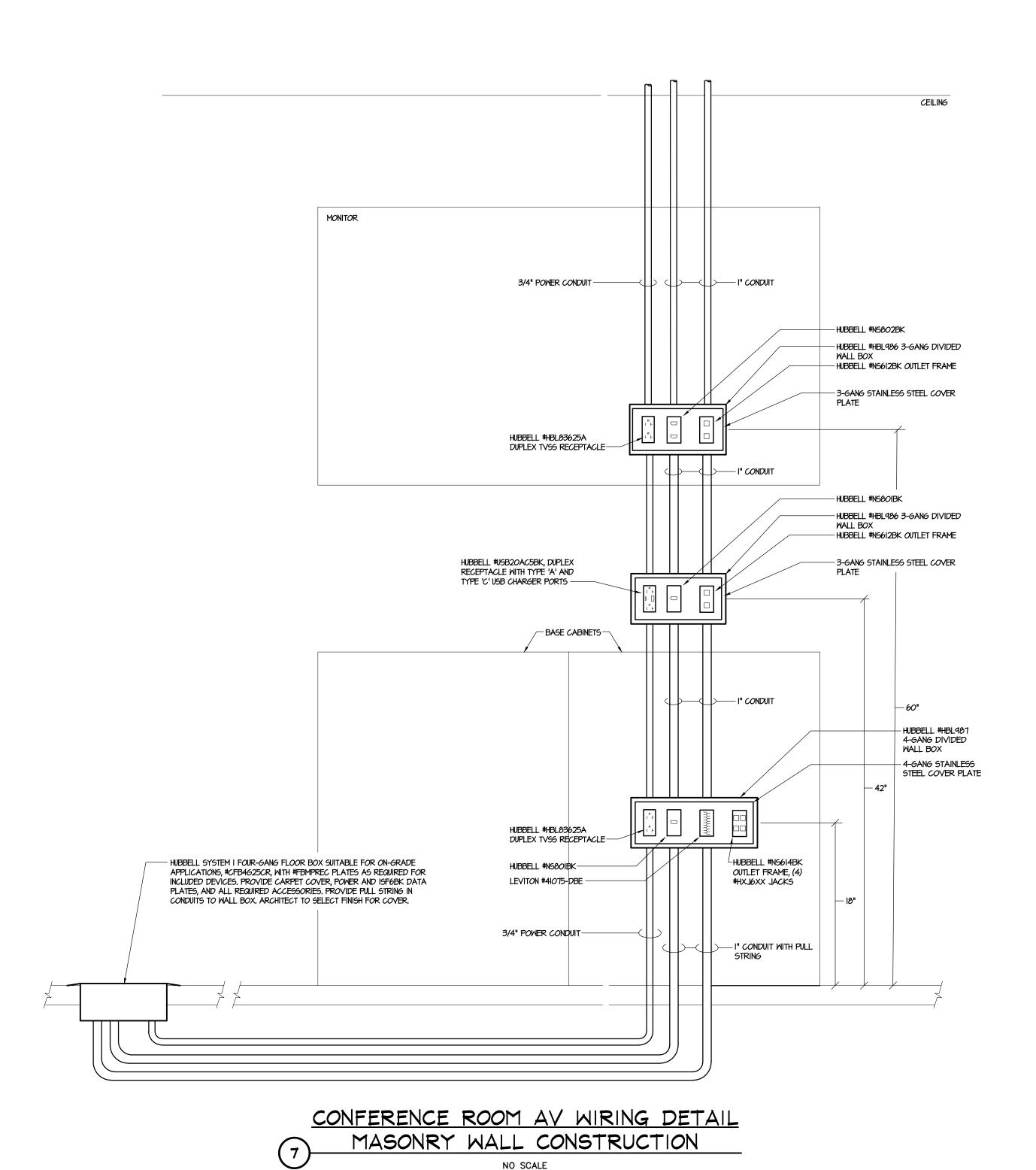


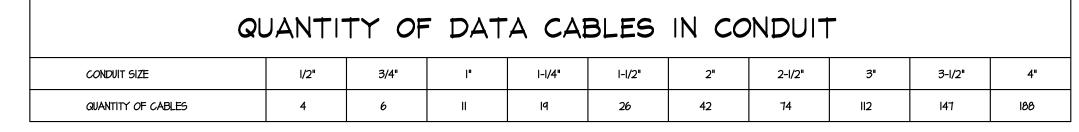
9 DATA NETWORK RISER DIAGRAM
NOT TO SCALE



TELECOMMUNICATION GROUNDING RISER

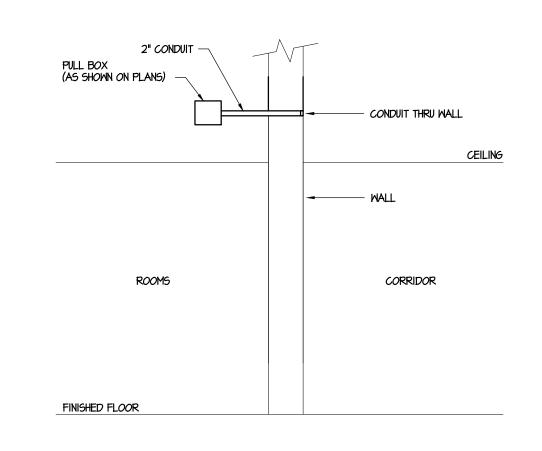
NOT TO SCALE



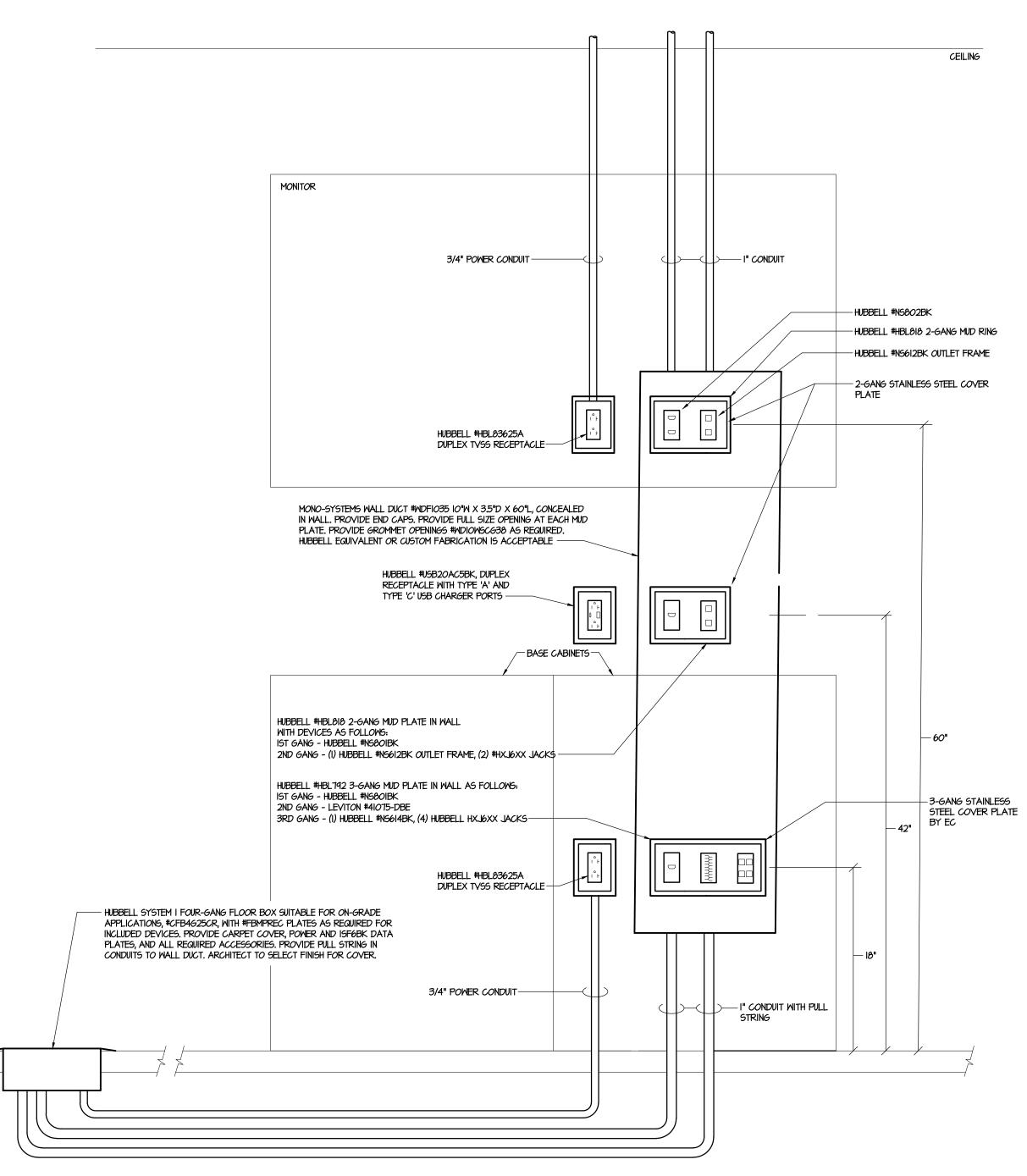


BASED ON 40% FILL OF CONDUIT USING HCM HITACHI PLUS CATEGORY 6 UTP CABLE

QL	JANTI	TY OF	DATA CABLES IN EZ PATH
ez path series	22	33	
QUANTITY OF CABLES - PLENUM	18	98	
QUANTITY OF CABLES - RISER	15	88	

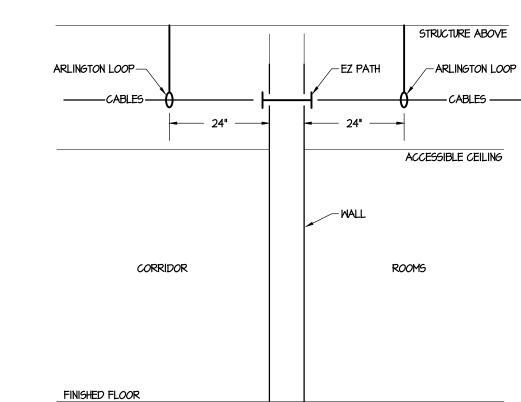


CONDUIT PATH THROUGH WALL ELEVATION



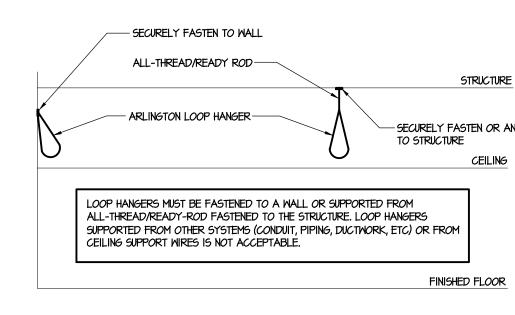
CONFERENCE ROOM AV WIRING DETAIL

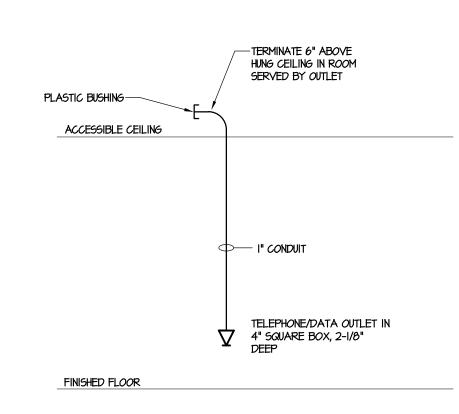
STUD WALL CONSTRUCTION



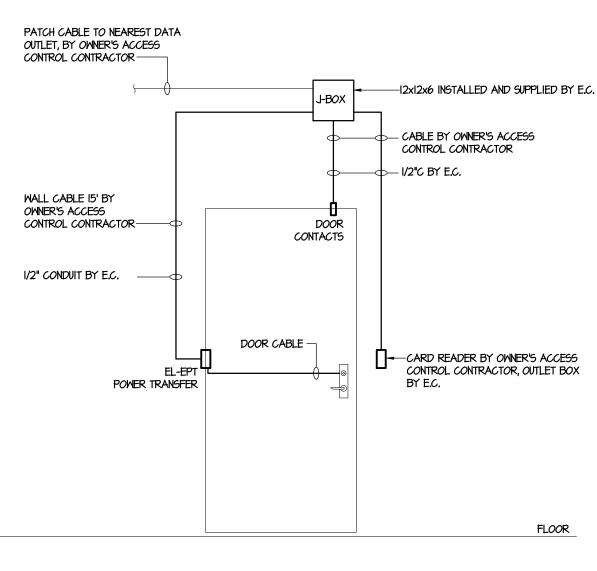
EZ PATH / CABLE

INSTALLATION DETAIL





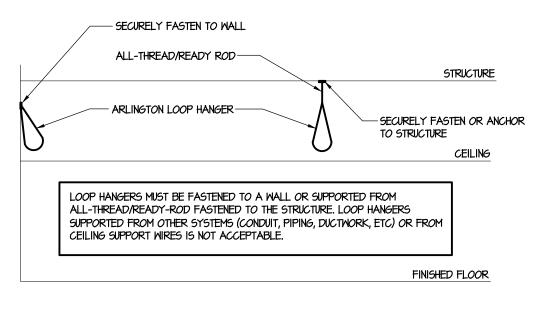
TYPICAL TELEPHONE/DATA OUTLET IN NEW WALLS



I. CONTROL EQUIPMENT AND J-BOX TO BE MOUNTED ON SECURE SIDE OF

2. F.A. ACTIVATED DOORS SHOULD BE ANNOTATED AND SHOWN WITH 3. DOORS SHOULD BE FACTORY PRE-LOADED AND TESTED.

ELECTRIC CARD READER FOR DOOR WIRING DIAGRAM



REX LEVENGOOD REX LEXAMON OPS UNIBRADSHAWA OPS

1238 CO**USTYCWELFASTR RE**DAD #260 RHEADORF, PA 1983 61064788457806280622 PBREADSHOOMOOTOOTTOOTHOUT TO DET BIRKS. GOM

Stephen Gribb, P.E. s.gribb@sdei.net

ARCHITECTURAL DESIGN

INTERIOR DESIGN CODE ANALYSIS

PLANNING SERVICES

REPORTS AND STUDIES ENGINEERING SERVICES

HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101

WYOMISSING, PA 19610

610.376.4927

www.MG-Architects.com

PROJECT #:

22-0012

CONSULTANT

PROJECT #: 22-0995-0133

PROFESSIONAL SEAL

SYSTEMS DESIGN

ISSUED DATE: ISSUED 8/17/23 PROJ. MGR.: S. Gribb P.M. e-MAIL: s.gribb@sdei.net DRAWN BY: S.B.G CLIENT PROJ #: OPYRIGHT © 2020 ALL RIGHTS RESERVED NEITHER ALL NOR AN

SHEET TITLE: SPECIAL SYSTEMS DIAGRAMS & DETAILS

OPIED OR USED IN ANY FORM OR MANNER EXCEPT PURSUA

CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION

ND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANG

GREENE ARCHITECTS LTD. THIS DOCUMENT IS AN ARTICLE (

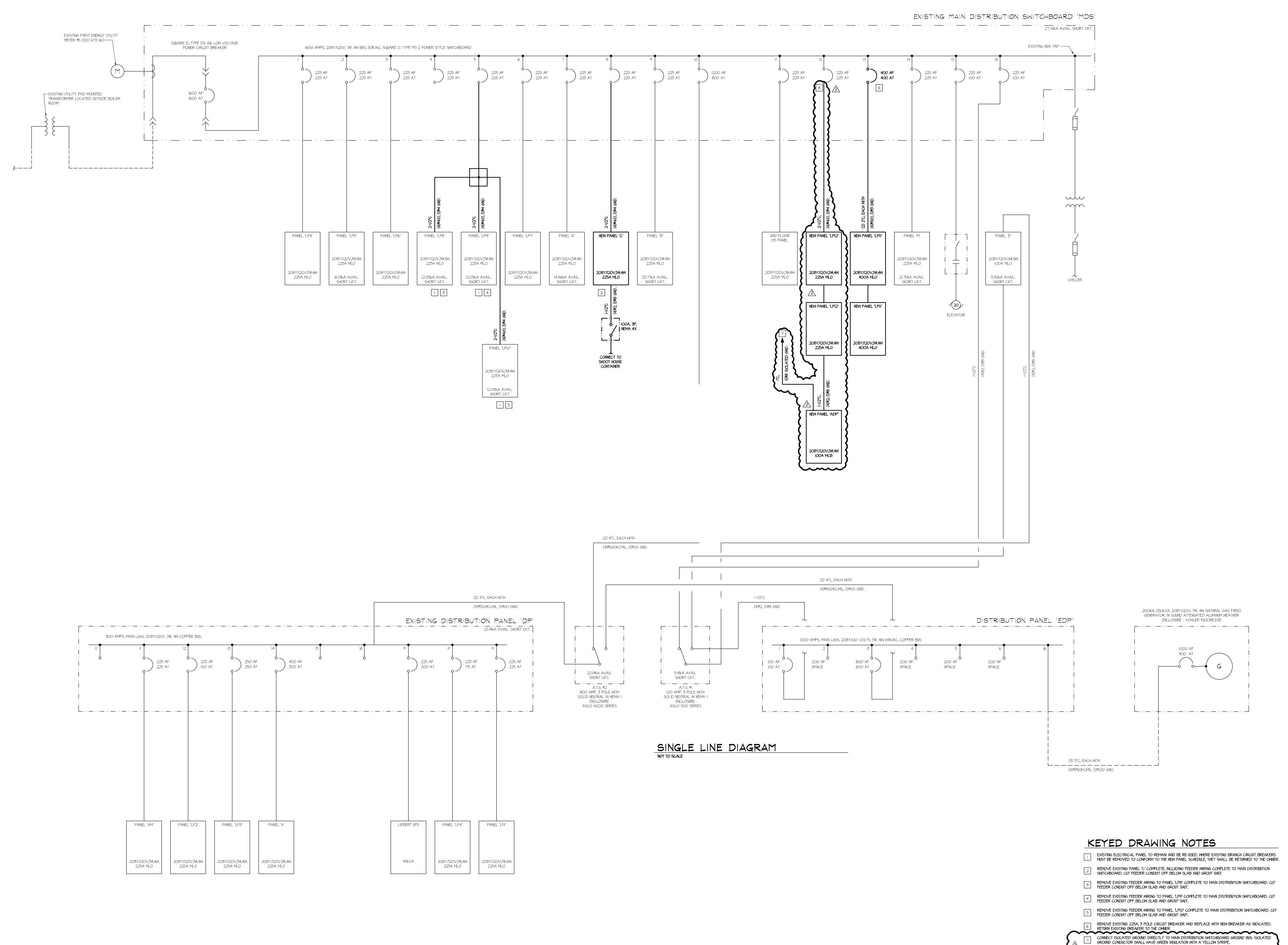
ERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS A

PRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD

IHLENBERG GREENE ARCHITECTS,LTD. THESE PLANS, DESIGN

R COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO B SIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING KPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBE

E302



ARCHITECTURAL DESIGN

INTERIOR DESIGN

CODE ANALYSIS PLANNING SERVICES REPORTS AND STUDIES ENGINEERING SERVICES HISTORIC PRESERVATION

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927

www.MG-Architects.com

PROJECT #:

CONSULTANT

SYSTEMS DESIGN

SDE ENGINEERING, INC PROJECT #: 22-0995-0133

PROFESSIONAL SEAL

Stephen Gribb, P.E. s.gribb@sdei.net

REX LEVENGOOD REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

BERKS

	ISSUED	
	DATE: ISSUED 8/17/23	3
REV ID	DESCRIPTION	DATE
=	L J. MGR.: S. Gribb	

DRAWN BY: S.B.G CLIENT PROJ #:

Opyright © 2020 all rights reserved neither all nor an pied or used in any form or manner except pursuan CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF JHLENBERG GREENE ARCHITECTS, LTD. THESE PLANS, DESIGN ID SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANG COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO SIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING T Press written permission and consent of muhlenberg Greene architects, Ltd. this document is an article oi SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS AF PRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

SHEET TITLE:

ELECTRICAL

8 CONNECT NEW FEEDER TO EXISTING 225 AMP, 3 POLE CIRCUIT BREAKER.



							,			CHE		(JLC		•,					
VOLTA	GE	208 Y/	120	<i></i>	MAIN LU			225	AMPS	MOUNTING FLUSH					OPTION:	ς.	COPPER	BUS, D	OOR-IN-DOOR CONSTRUCTIO	N,
SHOR	CIRCUIT DUTY		10.96		MAIN BL	JS		225	AMPS	MAIN C.	В.		225	AMPS			THRU-FE		SS, ISOLATED GROUND BUS	
CKT#	DESCRIPTION	LOAD	LOAD	COND	UCTORS	GND	COND	BKR		PHASE		BKR	COND	GND	CONDU	CTORS	LOAD	LOAD	DESCRIPTION	CKT#
		TYPE	(VA)	QTY	SIZE	SIZE	SIZE	A/P	Α	В	С	A/P	SIZE	SIZE	SIZE	QTY	(VA)	TYPE	DESCRIPTION	
THRU									13115											
FEED										10315										
LUGS											10110									
1		R	720						1440	10.00							720	R		2
3	WORK STATIONS NORTH-	R	720	4	#12	#12	3/4"	20/3		1440		20/3	3/4"	#12	#12	4	720	R	WORK STATIONS NORTH-	4
5	WEST	R	720								1440						720	R	EAST	6
7	SPARE							20/1	0			20/1							SPARE	8
9		R	480							1380		20/1	3/4"	#12	#12	2	900	R	FSA WORK STATIONS CONV.	10
11	WORK STATIONS NORTH	R	480	4	#12	#12	3/4"	20/3			660	20/1	3/4"	#12	#12	2	180	R	R.T.U10 RECEPT.	12
13	CENTER	R	480						1020			20/1	3/4"	#12	#12	2	540	R	WAITING G100 CONV.	14
15	SPARE							20/1		540		20/1	3/4"	#12	#12	2	540	R	SERVICE COUNTER G103	16
17	CONS. G101,G102 CONV.	R	1080	2	#12	#12	3/4"	20/1		444	2520	20/1	3/4"	#12	#12	2	1440	R	G103 COPIER	18
19	FSA G114, G115 CONV.	R	720	2	#12	#12	3/4"	20/1	2160			20/1	3/4"	#12	#12	2	1440	R	G100 SW COPIER	20
21	FSA G112, G113 CONV.	R	720	2	#12	#12	3/4"	20/1		2160		20/1	3/4"	#12	#12	2	1440	R	G100 NW COPIER	22
23	FSA G110, G111 CONV.	R	720	2	#12	#12	3/4"	20/1			2160	20/1	3/4"	#12	#12	2	1440	R	G100 NE COPIER	24
25	G108 SECURE STORAGE	R	900	2	#12	#12	3/4"	20/1	1800			20/1	3/4"	#12	#12	2	900	R	G107 BREAK REFRIG.	26
27	G105 MEETING CONVEN.	R	720	2	#12	#12	3/4"	20/1		1620		20/1	3/4"	#12	#12	2	900	R	G107 BREAK REFRIG.	28
29	G105 A/V AND FLOOR BOX	R	900	2	#12	#12	3/4"	20/2		4.4.6	2400	20/1	3/4"	#12	#12	2	1500	R	G107 COUNTER	30
31	G104A COUNTER	R	540	2	#12	#12	3/4"	20/1	2040			20/1	3/4"	#12	#12	2	1500	R	G107 COUNTER	32
33	OFFICE G106 CONVEN	R	360	2	#12	#12	3/4"	20/1		1860		20/1	3/4"	#12	#12	2	1500	R	G107 COUNTER	34
35	SPARE							20/1			720	20/1	3/4"	#12	#12	2	720	R	G100 NRCS AREA CONVEN.	36
37	SPARE							20/1	0			20/1							SPARE	38
39	SPARE							20/1		0		20/1							SPARE	40
41	SPARE							20/1			0	20/1							SPARE	42
OTAL	CONNECTED LOAD (VA) A, B, (:						•	21575	19315	20010	KVA W	ITH DIV	ERSITY	APPLIED		-		47.8	3 KV/
ГОТАІ	CONNECTED LOAD (AMP) A, B,	.C.							179.8	161.0	166.8	AMPS	WITH D	IVFRSIT	YAPPLIEI	D			132.78	s AMP

W / DIVERSITY

NO DIVERSITY 6.1 LIGHTING (L) KVA

NO DIVERSITY 0.0 MOTOR (M) KVA

NO DIVERSITY 0.0 ELECTRIC HEAT (EH) KVA

0.0 AIR CONDITIONING (AC) KVA

0.0 UNASSIGNED (N)

N.E.C. TABLE 220.56 **0.0** RECEPTACLE (R) KVA

CONNECTED

N.E.C. ARTICLE 220.42

N.E.C. TABLE 220.24 **23.1**

N.E.C. ARTICLE 430.24 **0.0**

N.E.C. ARTICLE 220.41 **0.0**

N.E.C. ARTICLE 440.6 **15.0**

CONNECTED

HEAT PUMP (HP) KVA

SITE LIGHTING (SL) KVA

UNASSIGNED (S)

KITCHEN EQUIPMENT (K) KVA

ELECTRIC WATER HEATING (WH) KVA

							ANE				ULE (ZIVL			N)						
VOLTA		208 Y/			MAIN LU				AMPS	MOUNT				JRFACE	OPTIONS	NS: COPPER BUS, DOOR-IN-DOOR CONSTRUCTION					
SHORT	CIRCUIT DUTY		10.96		MAIN BU				AMPS	MAIN C.	В.		N/A	AMPS	AMPS						
СКТ#	DESCRIPTION	LOAD TYPE	LOAD (VA)	COND QTY	UCTORS	GND	COND	BKR A/P	Α	PHASE B	С	BKR A/P	COND	GND SIZE	CONDU	CTORS QTY	LOAD (VA)	LOAD	DESCRIPTION	скт	
43			7325	<u> </u>					11990								4665	AC		44	
45	PANEL 'ADP'		3845	4	#2	#8	1-1/2"	100/3		9170		60/3	1"	#10	#8	3	5325	AC	 R.T.U10	46	
47			3845								8830						4985	AC		48	
49	RMS G101,G102,G110-115	L	750	2	#12	#12	3/4"	20/1	1125			20/1	3/4"	#12	#12	2	375	L	OFF. G106, NRCS OPEN OFF.	50	
51	FILING G104, MAIL G104A	L	565	2	#12	#12	3/4"	20/1		1145		20/1	3/4"	#12	#12	2	580	L	FSA OPEN OFF., BREAK	52	
53	G100 N NRCS WORKSTAS	L	720	2	#12	#12	3/4"	20/1			1280	20/1	3/4"	#12	#12	2	560	L	RMS G100,G103,100,G100	54	
55	SPARE							20/1	0			20/1							SPARE	56	
57	SPARE							20/1		0		20/1							SPARE	58	
59	SPARE							20/1			0	20/1							SPARE	60	
61	SPARE							20/1	0	100		20/1							SPARE	62	
63	SPARE							20/1	and and and	0		20/1							SPARE	64	
65	SPARE							20/1			0	20/1							SPARE	66	
67	SPARE							20/1	0			20/1							SPARE	68	
69	SPARE							20/1	artartar	0		20/1							SPARE	70	
71	SPARE							20/1			0	20/1							SPARE	72	
73	SPARE							20/1	0			20/1							SPARE	74	
75	SPARE							20/1		0		20/1							SPARE	76	
77	SPARE							20/1			0	20/1							SPARE	78	
79	SPARE							20/1	0			20/1							SPARE	80	
81	SPARE							20/1		0		20/1							SPARE	82	
83	SPARE							20/1			0	20/1							SPARE	84	
TOTAL	CONNECTED LOAD (VA) A, B, C	:							13115	10315	10110	KVA W	ITH DIV	ERSITY.	APPLIED				33.5	KV	
TOTAL	CONNECTED LOAD (AMP) A,B,	C,							109.3	86.0	84.3	AMPS	WITH D	VERSIT	Y APPLIE)			93.21	AMP	
LOAD E	BREAKDOWN																				
			CON	NECTED					W/D	IVERSITY					CON	NECTED			W/DI\	/ERSIT	
HEAT P	UMP (HP) KVA			6.14				NO D	IVERSITY	6.1	LIGHTIN	G (L) K\	/A			3.55			N.E.C. ARTICLE 220.42	3.	
КІТСНЕ	N EQUIPMENT (K) KVA			0			N.E.	C. TABLI	220.56	0.0	RECEPTA	CLE (R)	KVA			8.88			N.E.C. TABLE 220.24	8.	
SITE LIC	GHTING (SL) KVA			0				NO D	IVERSITY	0.0	MOTOR	(M) KVA	4			0			N.E.C. ARTICLE 430.24	0.	
ELECTR	IC WATER HEATING (WH) KVA	١		0				NO D	IVERSITY	0.0	ELECTRI	CHEAT	(EH) KVA	Ą		0			N.E.C. ARTICLE 220.41	0.	
	IGNED (S)			0						0.0	AIR CON	DITION	ing (ac) KVA		15			N.E.C. ARTICLE 440.6	15.	
	IGNED (T)			0							UNASSIG		•	,		0				0.0	

							NE	W P	ANEL	. 'ADF	' SCH	EDU	LE							
VOLTA	GE	208 Y/	120	,3Ø,4V	MAIN LL	JGS		N/A	AMPS	MOUNT	ING		SU	JRFACE	0071011	_	COPPER	BUS, D	OOR-IN-DOOR CONSTRUCTIO	N,
SHORT	CIRCUIT DUTY		2.534	KAIC	MAIN BU	JS		100	AMPS	MAIN C.	В.		100	AMPS	OPTION:	S :	ISOLATE	D GROL	JND BUS	
CVT.	DESCRIPTION	LOAD	LOAD	COND	UCTORS	GND	COND	BKR		PHASE		BKR	COND	GND	CONDU	CTORS	LOAD	LOAD	DECCRIPTION	CICT
CKT#	DESCRIPTION	TYPE	(VA)	QTY	SIZE	SIZE	SIZE	A/P	Α	В	С	A/P	SIZE	SIZE	SIZE	QTY	(VA)	TYPE	DESCRIPTION	СКТ
1	OFFICES G110, G111 I.G.	R	360	2	#12	#12	3/4"	20/1	2405								2045	НР		2
3	OFFICES G112, G113 I.G.	R	360	2	#12	#12	3/4"	20/1		2405		30/3	3/4"	#10	#10	3	2045	HP	CU-1, EVP-1	4
5	OFFICES G114, G115 I.G.	R	360	2	#12	#12	3/4"	20/1			2405						2045	HP		6
7	CONSULT G101, G102 I.G.	R	360	2	#12	#12	3/4"	20/1	1080			20/1	3/4"	#12	#12	2	720	R	NRCS WORKSTATIONS I.G.	8
9	FSA WORKSTATION I.G.	R	540	2	#12	#12	3/4"	20/1		900		20/1	3/4"	#12	#12	2	360	R	NRCS WORKSTATIONS I.G.	10
11	FSA WORKSTATION I.G.	R	360	2	#12	#12	3/4"	20/1			1080	20/1	3/4"	#12	#12	2	720	R	NRCS WORKSTATIONS I.G.	12
13	ADP G109 CONVEN.	R	720	2	#12	#12	3/4"	20/1	1440			20/1	3/4"	#12	#12	2	720	R	NRCS WORKSTATIONS I.G.	14
15	ADP G109 BACKBOARD I.G.	R	180	2	#12	#12	3/4"	20/1		540		20/1	3/4"	#12	#12	2	360	R	NRCS WORKSTATIONS I.G.	16
17	ADP G109 BACKOARD I.G.	R	180	2	#12	#12	3/4"	20/1			360	20/1	3/4"	#12	#12	2	180	R	G106 NRCS OFFICE I.G.	18
19	ADP G109 TWIST-LOK I.G.	R	2400	2	#10	#10	3/4"	30/1	2400			20/1							SPARE	20
21	SPARE							20/1		0		20/1							SPARE	22
23	SPARE							20/1			0	20/1							SPARE	24
25	SPARE							20/1	0			20/1							SPARE	26
27	SPARE							20/1		0		20/1							SPARE	28
29	SPARE							20/1			0	20/1							SPARE	30
TOTAL	CONNECTED LOAD (VA) A, B, C	:							7325	3845	3845	KVA W	ITH DIV	ERSITY A	APPLIED				15.0	KV.
TOTAL	CONNECTED LOAD (AMP) A,B,	C,							61.0	32.0	32.0	AMPS	WITH D	IVERSIT	Y APPLIEI)			41.73	AMP
LOAD	BREAKDOWN																			
			CONI	NECTED					W/D	IVERSITY					CON	NECTED			W/DI\	/ERSIT
HEAT P	UMP (HP) KVA			6.14				NOD	IVERSITY	6.1	LIGHTIN	G (L) K\	/A			0			N.E.C. ARTICLE 220.42	0.
КІТСНЕ	EN EQUIPMENT (K) KVA			0			N.E.	C. TABL	E220.56	0.0	RECEPTA	CLE (R)	KVA			8.88			N.E.C. TABLE 220.24	8.
SITE LI	GHTING (SL) KVA			0				NOD	IVERSITY	0.0	MOTOR	(M) KVA				0			N.E.C. ARTICLE 430.24	0.
ELECTF	RIC WATER HEATING (WH) KVA			0				NOD	IVERSITY	0.0	ELECTRIC	СНЕАТ	(EH) KV	4		0			N.E.C. ARTICLE 220.41	0.
UNASS	IGNED (S)			0					0.0 AIR CONDITIONING (AC) KVA 0 N.E.C. ARTICLE 4				N.E.C. ARTICLE 440.6	0.						
UNASS	IGNED (T)			0						0.0	UNASSIG	NED (N	1)			0				0.0



PROJECT #: 22-0012

CONSULTANT

955 BERKSHIRE BLVD., SUITE 101 WYOMISSING, PA 19610 610.376.4927 www.MG-Architects.com

SDE SYSTEMS DESIGN ENGINEERING, INC 1032 JAMES DR. LEESPORT, PA 19533 BOYERTOWN, PA 610.369.1319 PHONE: 610.916.8500 FAX: 610.916.8501 SCHUYLKILL HAVEN, PA 570.385.5549

PROJECT #: 23-0995-0139

PROJECT #: 23-0995-0139 PROFESSIONAL SEAL

Stephen Gribb, P.E. s.gribb@sdei.net

COUNTY OF BERKS

REX LEVENGOOD, DIR. OF FAC. & OPS 633 COURT STREET READING, PA 19601 610.478.6201 X6220 RLEVENGOOD@CountyOfBerks.gov

CENTER GRICULTURAL

S

OUNTY BERKS

	ISSUED	
	DATE: ISSUED 8/17/23	
REV ID	DESCRIPTION	DATE
PRO.	J. MGR.: Stephen Gribb, P.E.	

P.M. e-MAIL: s.gribb@sdei.net DRAWN BY: S. Goodman CLIENT PROJ #: -

Part of this document may be amended, reproduced, Copied or used in any form or manner except pursuant to contract or with the specific written permission of mg IO CONTRACT OR WITH THE SPECIFIC WRITTEN PERMISSION OF MG ARCHITECTS, LTD. THESE PLANS, DESIGNS AND SUBJECT MATTER ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF MUHLENBERG GREENE ARCHITECTS, LTD. THIS DOCUMENT IS AN ARTICLE OF SERVICE AND THE COPYRIGHT AND OTHER PROPERTY RIGHTS ARE EXPRESSLY RESERVED BY MUHLENBERG GREENE ARCHITECTS, LTD.

ELECTRICAL PANEL SCHEDULES

SHEET TITLE:

E-503