PENNSYLVANIA CONVENTION CENTER

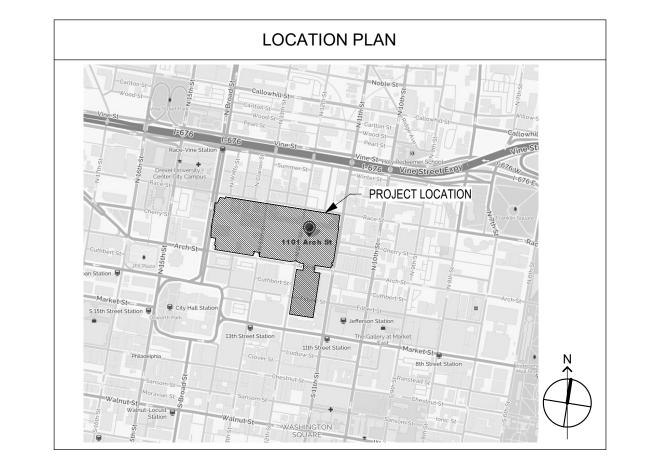
RESTROOM RENOVATIONS OVERLOOK RESTROOMS

1101 ARCH STREET, PHILADELPHIA, PA 19107

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PROJECT OVERVIEW

The project includes the renovation of two restrooms in the Pennsylvania Convention Center, which are located adjacent to the 300-level Overlook Cafe. Renovations include replacing outdated finishes, fixtures, toilet partitions,



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REVISIONS:

COVER SHEET

CW1615.06 03/15/2023 EW

G001

CODE SUMMARY

BUILDING INFORMATION:

Pennsylvania Convention Center 1101 Arch Street, Philadelphia, PA 19107

Existing Building:

3 stories plus 3 mezzanine levels; Floor area > 2,000,000 sf Construction Type: 1A, Fully sprinklered

Mixed use occupancy: A-3, B, S-1, S-2

Project Work Area: 710 sf Work area is limited to two public restrooms on third floor level in original part of building (constructed in 1990s).

The building was originally constructed under the Philadelphia Code and has changed jurisdiction since its construction, as it is now State-owned.

GOVERNING CODES:

Adopted and enforced by the Pennsylvania Department of Labor & Industry: (The Pennsylvania Convention Center is State-owned and therefore under PA L&I jurisdiction)

Uniform Construction Code (UCC)

Above code incorporates:

2018 ICC Codes

Other applicable codes and standards:

Chapter 11, Appendix E, International Building Code 2021 Accessibility Requirements

ICC A117.1-2017 Standard and Commentary ADA Standards for Accessible Design - 2010

NFPA 70-2017 National Electric Code

IEBC 2018

Chapter 1 - Scope and Administration

Work Area - That portion or portions of a building consisting of all reconfigured spaces as indicated on the construction documents. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed and portions of the building where work not initially intended by the owner is specifically required by this code.

Chapter 3 - Provisions for all Compliance Methods

301.3.2 Work area compliance method - SELECTED EVALUATION METHOD

- Alterations shall be in compliance with applicable requirements of Chapters 6 through 12. 305.3 An alteration of an exsiting facility shall not impose a requirement for greater accessibility than that which would be required for new construction. Alterations shall not reduce or have the effect of reducing accessibility of a facility or portion of a facility.
- 305.6 A facility that is altered shall comply with the applicable provisions in Chapter 11 of the IBC, unless technically infeasible. Where technically infeasible, the alteration shall provide access to the maximum extent technically

Exceptions: 1) The altered element or space is not required to be on an accessible route. 2) Accessible means of egress are not required to be provided in existing facilities.

Chapter 6 - Classification of Work

- 602.1 Level 1 Alterations include the removal and replacement or the covering of existing materials, elements,
- equipment, or fixtures using new ones that serve the same purpose. 602.2 Application. Level 1 alterations shall comply with the provisions of Chapter 7.
- 603.1 Level 2 Alterations include the reconfiguration of space, the reconfiguration or extension of any system, or the installation of any additional equipment.
- 603.2 Application. Level 2 alterations shall comply with the provisions of Chapters 7 and 8. LEVEL 2 ALTERATIONS IN THIS PROJECT ARE LIMITED TO:

1. MINOR RELOCATION OF NON-BEARING WALLS FOR THE PURPOSE OF INCREASING

ACCESSIBILITY AT BOTTLE FILLERS

2. ADDITION OF ELECTRIC HAND DRYERS WITHIN THE RESTROOMS. 3. ADDITION OF BOTTLE FILLERS IN THE CORRDIORS ADJOINING THE RESTROOMS

Chapter 7 - Alterations - Level 1

Section 702 Building Elements and Materials

- 702.1 Interior wall & ceiling finishes shall comply with IBC Chapter 8.
- 702.2 Interior floor finishes shall comply with IBC Section 804. 702.6 Materials and methods - All new work shall comply with the ICC International Codes.
- 704.1 Alterations shall be done in a manner that maintains the level of protection provided for the means of egress.

Chapter 8 - Alterations - Level 2

801.3 Compliance. All new construction elements, components, systems, and spaces shall comply with the requirements of the IBC. Exception: Newly installed electrical equipment shall comply with the requirements of

IBC 2018
303.1 Use and Occupancy Classification of Work Area. A-3 Exhibition Halls

Chapter 6 - Types of Construction

Table 601 Fire-Resistance Rating Requirements for Building Elements - Construction Type 1A

Primary structural frame Bearing walls - Exterior 3 hours Bearing walls - Interior 3 hours Nonbearing walls and partitions - Exterior see Table 602 Nonbearing walls and partitions - Interior 0 hours Floor construction 2 hours

Chapter 8 - Interior Finishes

Roof construction

803.1.1 Interior wall and ceiling finish materials shall be classified in accordance with ASTM E84. Such finish

1 1/2 hours

materials shall be grouped in the following classes: Class A: flame spread 0-25, smoke developed 0-450 Class B: flame spread 26-75, smoke developed 0-450 Class C: flame spread 76-200, smoke developed 0-450

Table 803.11 Interior Wall and Ceiling Finishes by Occupancy Group Corridors Rooms and Enclosed Spaces Class B Class C

Chapter 9 - Fire Protection Systems

BUILDING IS FULLY SPRINKLERED.

Chapter 10 - Means of Egress

1003.3.3 Protruding objects - Horizontal projections shall not project horizontally more than 4 inches over any walking surface between the heights of 27 and 80 inches above the walking surface. 1004 Occupant Load. NO CHANGE IS PROPOSED TO BUILDING OCCUPANT LOAD.

1008.3.5 Means of egress illumination level shall not be less than 1 foot-candle at the walking surface.

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided for Group A-3 occupancies.

Chapter 12 - Interior Environment 1204.3 Artificial light shall provide an average illumination of 10 foot-candles over the area of the room at a height of

- 30" above the floor level. 1204.5 Emergency egress lighting. The means of egress shall be illuminated in accordance with Section 1008.1. 1209.2.1 Floors and wall base finish materials. Toilet room floor finish materials shall have a smooth, hard,
- nonabsorbent surface. The intersections of such floors with walls shall have a smooth, hard, nonabsorbent vertical base that extends up the wall at least 4 inches. 1209.2.2 Walls and partitions within 2 feet of urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of 4 feet above the floor. Accessories provided on or within walls shall be installed and
- sealed to protect structural elements from moisture. 1209.3.2 Urinal partitions shall begin at a height of not more than 12 inches from and extend not less than 60 inches above the finished floor surface. The partition shall extend on each side not less than 18 inches or to a point not less than 6 inches beyond the outer lip of the urinal, whichever is greater.

Chapter 13 - Energy Efficiency

1301.1.1 Buildings shall be designed and constructed in accordance with the International Energy Conservation

Chapter 29 - Plumbing Systems

2902 Minimum Plumbing Fixtures.

- THERE IS NO CHANGE IN THE NUMBER OF PLUMBING FIXTURES IN THE FACILITY. TWO ACCESSIBLE BOTTLE FILLERS ARE BEING INSTALLED AT ORIGINAL LOCATIONS OF DRINKING FOUNTAINS, WHICH HAVE BEEN REMOVED SINCE.
- 2902.3.2 Location. Toilet facilities shall be located not more than 1 story above or below the space to be
- served. Path of travel to facilities is not to exceed 500 feet. 2902.4 Signage. A legible sign designating the sex shall be provided in a readily visible location near the entrance
- to each toilet facility. Signs for accessible toilet facilities shall comply with Section 1111. 2903.2 Urinal partitions. Each urinal shall have partitions to provide privacy. The partitions shall begin at a height not more than 12 inches from and extend to not less than 60 inches above the finished floor surface. The partitions shall extend out from the wall a minimum of 18 inches or not less than 6 inches beyond the front lip of the urinal, whichever is greater.

IBC 2021

Chapter 11 - Accessibility

- 1102.1 Design. Buildings and facilities shall be designed to be accessible according to this code and ICC A117.1. 1110.2 Toilet and Bathing Facilities. Each toilet room shall be accessible. At least one of each type of fixture, element, control, or dispenser in each accessible toilet room shall be accessible. Exception: Where only one urinal is provided in a room, it is not required to be accessible.
- 1110.2.4 Water closet compartment. At least 5% of water closet compartments shall be wheelchair accessible. Where combined number of compartments and urinals provided is six or more, 5% of compartments shall
- be ambulatory accessible, provided in addition to the wheelchair-accessible compartment. 1110.2.5 Lavatories. At least 5% of lavatories provided, but not less than one, shall be accessible. Where total lavatories provided is six or more, at least one lavatory with enhanced reach ranges shall be provided. (Per ICC A117.1 section 606.5, Where enhanced reach range is required at lavatories, faucet and soap dispenser controls shall have a reach depth of 11 inches maximum or, if automatic, shall be activated within a reach depth of 11 inches maximum).
- 1110.5 Drinking fountains. 1110.5.1 Minimum number. No fewer than two drinking fountains shall be provided; one complying with
- requirements for wheelchair-users, and one for standing persons. 1110.5.2 Where more than the minimum number of drinking fountains is provided, 50% shall comply for wheelchair-
- users and 50% shall comply for standing persons. 1110.6 Where bottle-filling stations are provided, they shall be accessible.
- 1112.2 Signs identifying toilet rooms shall be visual characters, raised characters and braille complying with ICC A117.1. Where pictograms are provided as designations for toilet rooms and bathing rooms, the pictograms shall have visual characters, raised characters and braille complying with ICC A117.1.
- 1112.3 Directional signage indicating the route to the nearest like accessible element shall be provided at inaccessible public toilets. Directional signs shall include the International Symbol of Accessibility and sign characters shall meet the visual character requirements of ICC A117.1.

E107.2 Signage designations. Signs shall be visual characters, raised characters, and braille complying with ICC A117.1. Where pictograms are provided, they shall have visual characters, raised characters, and braille complying with ICC A117.1.

E107.3 Directional signs shall contain visual characters complying with ICC A117.1.

PROPOSED NEW ROOM ENTRY SIGNAGE IS COMPLIANT WITH IBC, ICC ANSI A117.1 2017 AND ADA **REQUIREMENTS - SEE SHEETS A801.**



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Date No. Description

REVISIONS:

/ANIA CENTER PENNSYLV, NVENTION 0

CODE ANALYSIS

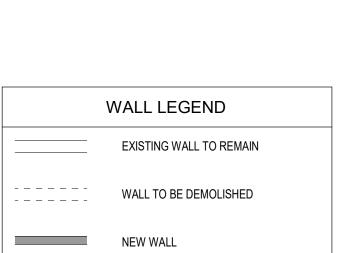
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G002

GENERAL NOTES

OTHERWISE NOTED.

- NOT USED.
- 2. ALL DETAILS, INSTRUCTIONS, NOTES, FINISHES, MATERIALS, AND DIMENSIONS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
- 3. ALL NOTES DESCRIBE NEW CONSTRUCTION UNLESS STATED
- OTHERWISE. 4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE
- PRECEDENCE OVER SCALED DIMENSIONS. 5. ALL DIMENSIONS ARE TO THE FACE OF FINISH MATERIALS UNLESS
- 6. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER PRIOR TO PROCEEDING WITH THE WORK.
- 7. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, AND SERVICES NECESSARY FOR SUCCESSFUL COMPLETION OF THE WORK. ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. NOTIFY THE ARCHITECT OF ANY INCONSISTENCY BETWEEN THESE PLANS AND ANY GOVERNING BUILDING CODES AND ORDINANCES.
- 8. THE BUILDING WILL BE OCCUPIED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PERMIT CONTINUED USE OF THE OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION, INCLUDING MINIMIZING CONSTRUCTION ACCESS THROUGH SUCH AREAS, SECURITY AGAINST UNAUTHORIZED ENTRY, PROTECTION FROM DIRT AND
- EXCESS NOISE. 9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND
- INSPECTIONS.
- 10. THE CONTRACTOR SHALL COORDINATE WORK WITH OWNER'S SCHEDULE.
- 11. A STAMPED SET OF APPROVED PLANS SHALL BE KEPT AT THE JOB
- SITE AT ALL TIMES. 12. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL AND REMOVAL FROM THE SITE OF ALL CONSTRUCTION AND DEMOLITION
- 13. ALSO REFER TO OWNER'S GENERAL CONDITIONS OF THE CONTRACT FOR ADDITIONAL INFORMATION.



MATERIALS

GYP.

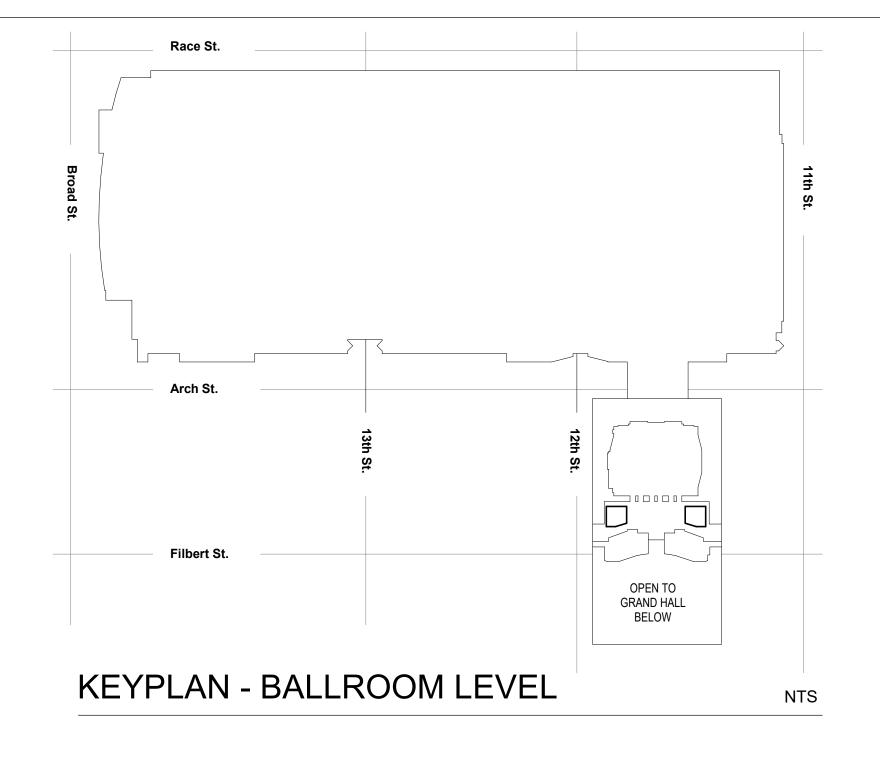
CONC.

CMU

PLYWD.

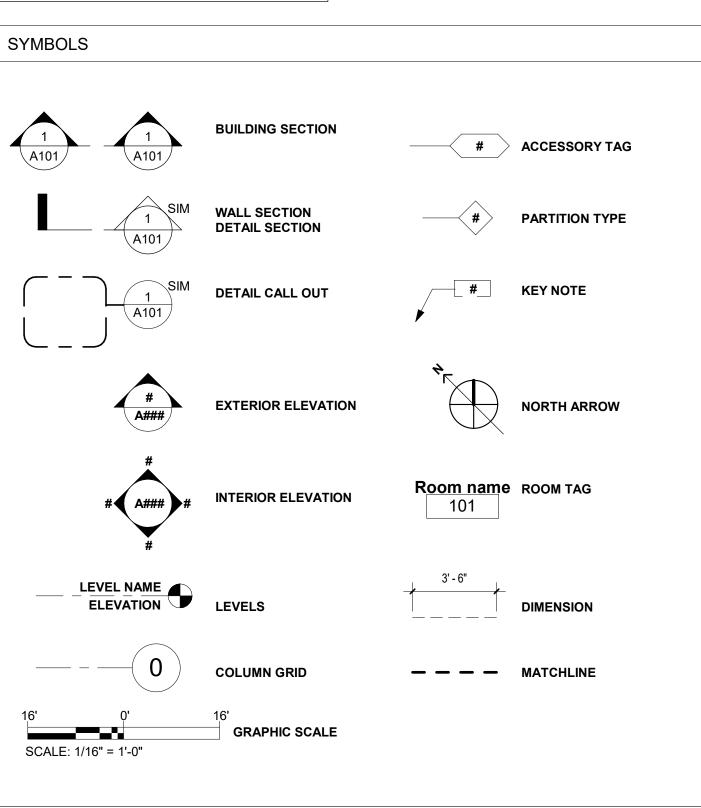
STEEL

GROUT



SEE ELECTRICAL DRAWINGS FOR ELECTRICAL PANEL LOCATIONS.

RESTROOMS IN PROJECT

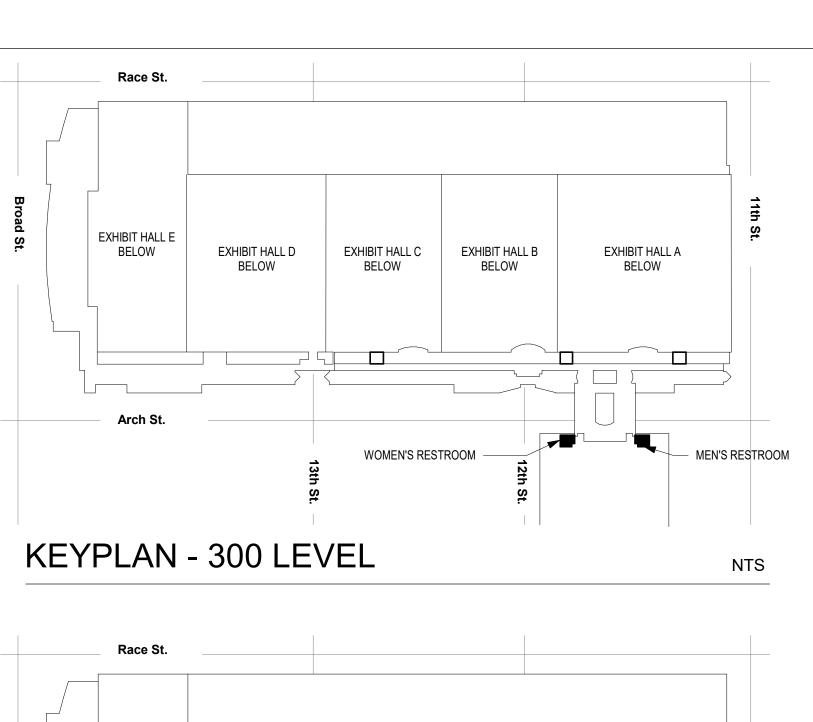


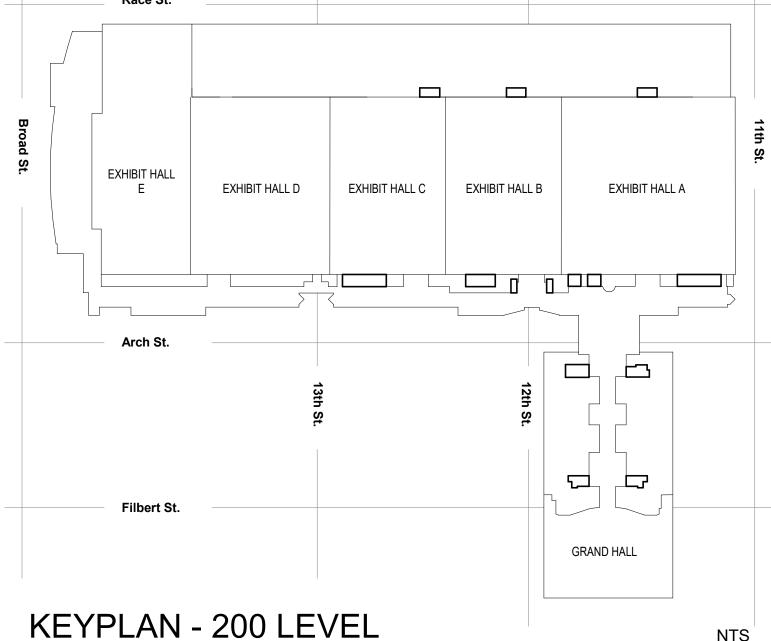
TILE

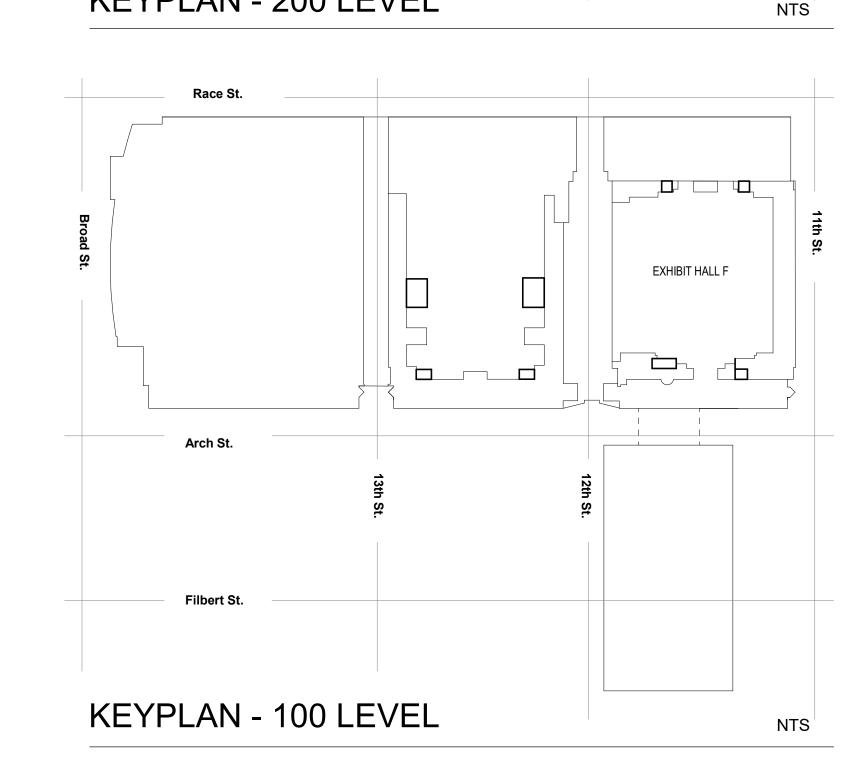
RESINOUS FLOORING

BR BS CJ CL CL CN	AG E	AF AC AS BD BL BN BC BC
CODIAN DIN DIN DIN DIN DIN DIN DIN DIN DIN DI		BS CJ CL CN CN CO CO CO
EX EX EX EX EX EX EX EX EX EX EX EX EX E		DIM DIM DT DV EA EC EL EL
GA GA GE GC GL GR GV H HB HC HD HN HC		EX EX EX FD FD FE FF FT
GL GR GV H HB HC HD HN HC		GA GA
		GL GR GV H HB HC HD HN











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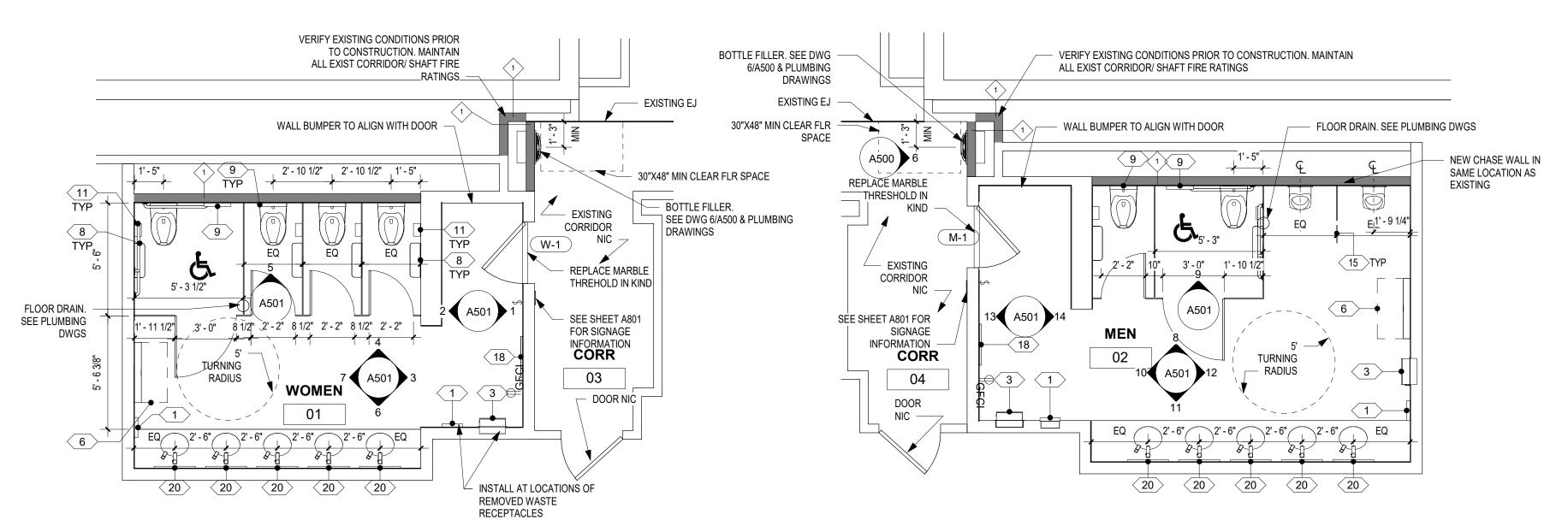
e-mail: wau@csagroup.com

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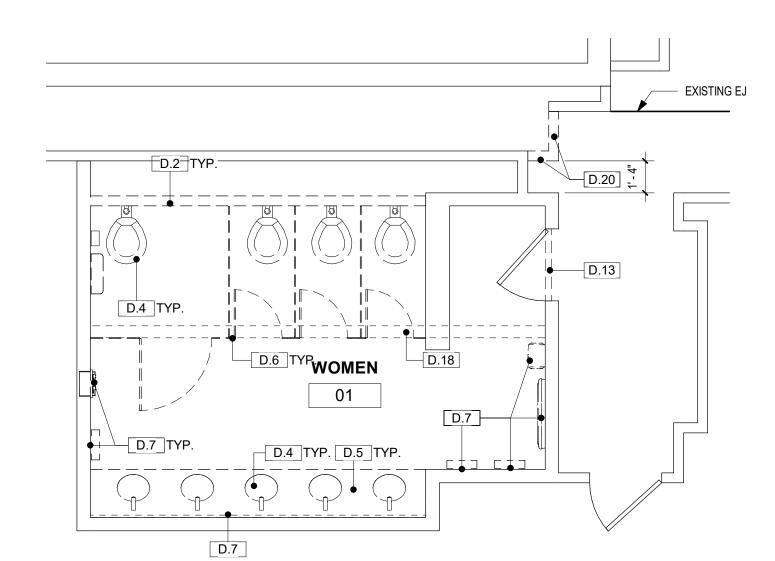
GENERAL NOTES, SYMBOLS & **KEYPLANS**

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PLAN - WOMEN'S RESTROOM

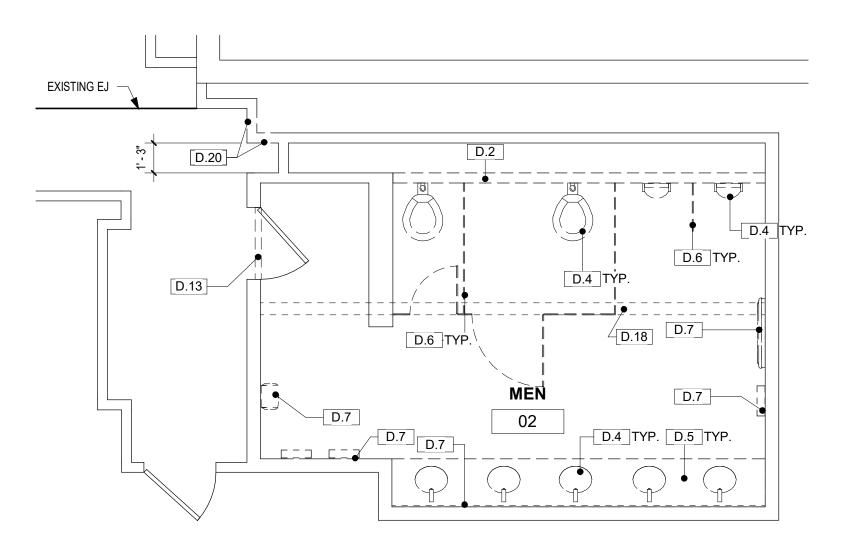
A101 SCALE: 1/4" = 1'-0"



DEMO PLAN - WOMEN'S RESTROOM

A101 SCALE: 1/4" = 1'-0"

4 PLAN - MEN'S RESTROOM \A101 / SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S RESTROOM

A101 SCALE: 1/4" = 1'-0"

DRAWING GENERAL NOTES

NOT USED.

2. NOT USED.

3. CONTRACTOR IS TO VERIFY THE CONDITION OF EXISTING SUBSTRATES TO RECEIVE NEW FINISHES AND CONFIRM SUITABILITY. IF EXISTING FLOORS DO NOT MEET MEET ALLOWABLE TOLERANCES PER ANSI STANDARDS FOR LARGE-FORMAT TILE, FLASH FLOORS TO LEVEL. SCRIBE WALL TILE AS NECESSARY TO ACCOMMODATE FLOOR LEVEL WITHIN ALLOWABLE TOLERANCE.

4. INFILL AND/OR PATCH FLOORS AND WALLS WHERE TOILET PARTITIONS, ACCESSORIES, OR WALLS REMOVED, AND PROVIDE A SOUND AND LEVEL SURFACE TO RECEIVE NEW FINISH. 5. EXISTING CERAMIC WALL TILE IS TO REMAIN ON WALLS TO

REMAIN AND NEW SCHEDULED TILE IS TO BE INSTALLED OVER EXISTING TILE. CONTRACTOR TO VERIFY THAT LEVELNESS OF SURFACE IS WITHIN REQUIRED TOLERANCES FOR SPECIFIED NEW TILE FINISH.

6. NOT USED.

7. GC TO VERIFY THICKNESS OF CERAMIC TILE ASSEMBLY TO BE REMOVED AND ACCOUNT FOR ANY DIFFERENCE IN THICKNESS OF NEW TILE ASSEMBLY.

8. NEW PLUMBING FIXTURE LOCATIONS DIFFER FROM EXISTING FIXTURE LOCATIONS. FIXTURE CARRIERS AND ASSOCIATED PLUMBING ARE TO BE RELOCATED TO DIMENSIONS SHOWN ON

DRAWINGS. 9. SEE SHEET A500 FOR ENLARGED PLANS AND ELEVATIONS OF TYPICAL TOILET COMPARTMENTS AND TYPICAL ACCESSORY MOUNTING HEIGHTS.

10. SEE SHEET A500 FOR PARTITION TYPES. NEW WALLS ARE TO BE CONSTRUCTED IN THE IN SAME LOCATION AS EXISTING DEMOLISHED WALLS, UNLESS NOTED OTHERWISE. 11. NEW WALLS SHALL MAINTAIN THE FIRE RATING OF THE EXISTING

DEMOLISHED WALLS IN THE SAME LOCATION. 12. SEE A600 SERIES SHEETS FOR REFLECTED CEILING PLANS,

FINISH PLANS, AND SCHEDULES. 13. NOT USED.

ACCESSORY/EQUIPMENT LEGEND

1 HAND DRYER - SEMI-RECESSED

3 PAPER TOWEL/TRASH COMBO UNIT - AUTO, SEMI-RECESSED

6 DIAPER CHANGING STATION - SURFACE-MTD. (UNLESS OTHERWISE NOTED)

8 TOILET PAPER DISPENSER - DUAL JUMBO ROLL (TYP. IN EACH STALL) 9 SEAT COVER DISPENSER (TYP. IN EACH STALL)

(11) SANITARY DISPOSAL (TYP. IN EACH WOMEN'S STALL)

15 TOILET PARTITIONS - COMPACT HIGH-PRESSURE LAMINATE (PHENOLIC), 81" HIGH INCL 9" SUPPORT LEGS; URINAL SCREENS 20" D X 60" H, WALL-MTD.

18 MIRROR - FULL LENGTH - 24" X 72"

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT - SEE A500 FOR TYPICAL ENLARGED

PLANS AND ELEVATIONS.

AMBULATORY ACCESSIBLE TOILET COMPARTMENT - SEE A500 FOR TYPICAL ENLARGED PLANS AND ELEVATIONS.

NO SYMBOL UNLESS OTHERWISE NOTED, TOILET COMPARTMENTS ARE STANDARD.

ADA / ICC ANSI A117.1 REQUIRED CLEARANCES

EXISTING 2-HR FIRE RATED WALL (PER AS-BUILT DRAWINGS) TO REMAIN

PARTITION TYPE - SEE SHEET A500.1

DEMOLITION GENERAL NOTES

NOT USED.
 COORDINATE DEMOLITION SCOPE ITEMS WITH NEW

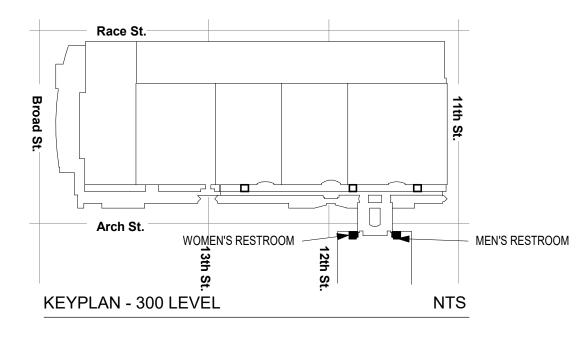
WORK AND MEP DRAWINGS. 3. COORDINATE WITH OWNER FOR REMOVED ACCESSORIES, PLUMBING FIXTURES, LIGHTING

FIXTURES, CEILING DEVICES, TOILET PARTITIONS, AND SIGNAGE TO BE SALVAGED. NOT USED. 5. FOR STEEL BEAMS INDICATED TO BE REMOVED, GC

TO VERIFY THAT BEAMS ARE NOT SUPPORTING ANY BUILDING ELEMENT PRIOR TO DEMOLITION. EXERCISE CARE WHEN REMOVING THE BEAMS SO AS NOT TO DAMAGE ANY ADJACENT CONSTRUCTION. BEAMS APPEAR TO HAVE PREVIOUSLY SUPPORTED CEILING-HUNG TOILET PARTITIONS, BUT ARE NO LONGER IN USE.

DEMOLITION KEY NOTES
EMOVE EXISTING 4" PARTIAL HEIGHT CHASE WALL
EMOVE EXISTING PLUMBING FIXTURE - SEE PLUMBING DWGS
EMOVE EXISTING COUNTERTOP & SUPPORT FRAMING
EMOVE EXISTING TOILET/URINAL PARTITIONS

REMOVE EXISTING WALL-MOUNTED ACCESSORIES REMOVE EXISTING MARBLE DOOR THRESHOLD REMOVE EXISTING STEEL BEAM (6" TO 10" DEEP) ABOVE CEILING REMOVE EXISTING CHASE WALL. SALVAGE EXISTING CERAMIC TILE BASE FOR REINSTALLATION





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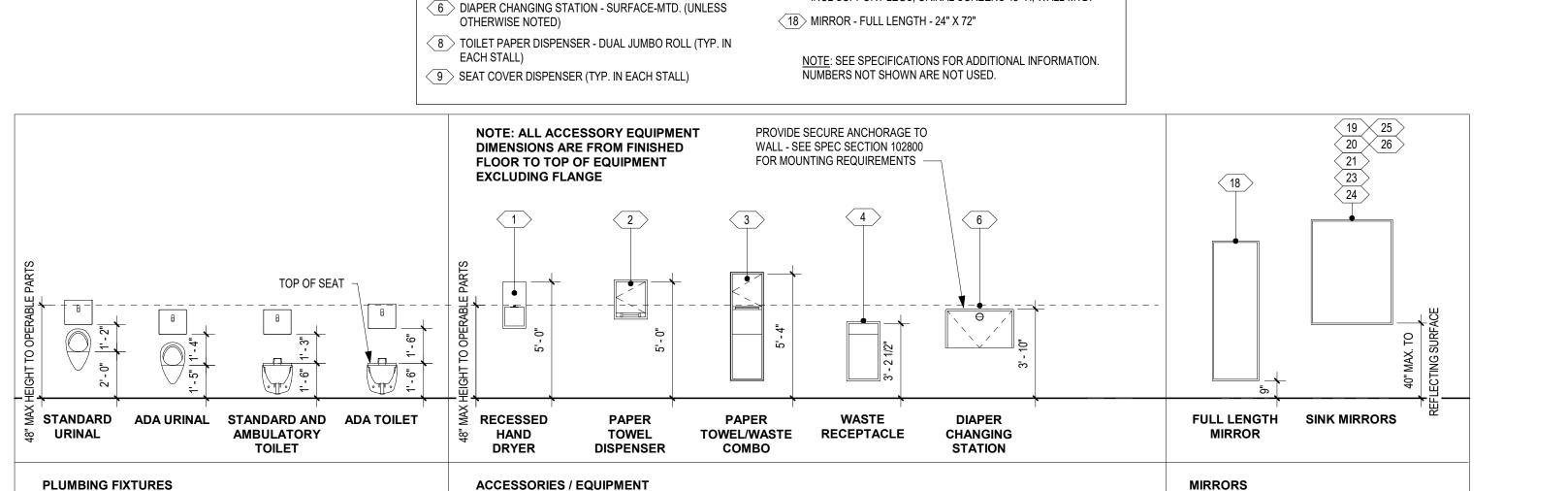
DEMOLITION & NEW FLOOR PLANS

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A101



ACCESSORY/EQUIPMENT LEGEND

3 PAPER TOWEL/TRASH COMBO UNIT - AUTO SEMI-RECESSED (15) TOILET PARTITIONS - PHENOLIC SOEMA CHPL, 81" HIGH

(11) SANITARY DISPOSAL (TYP. IN EACH WOMEN'S STALL)

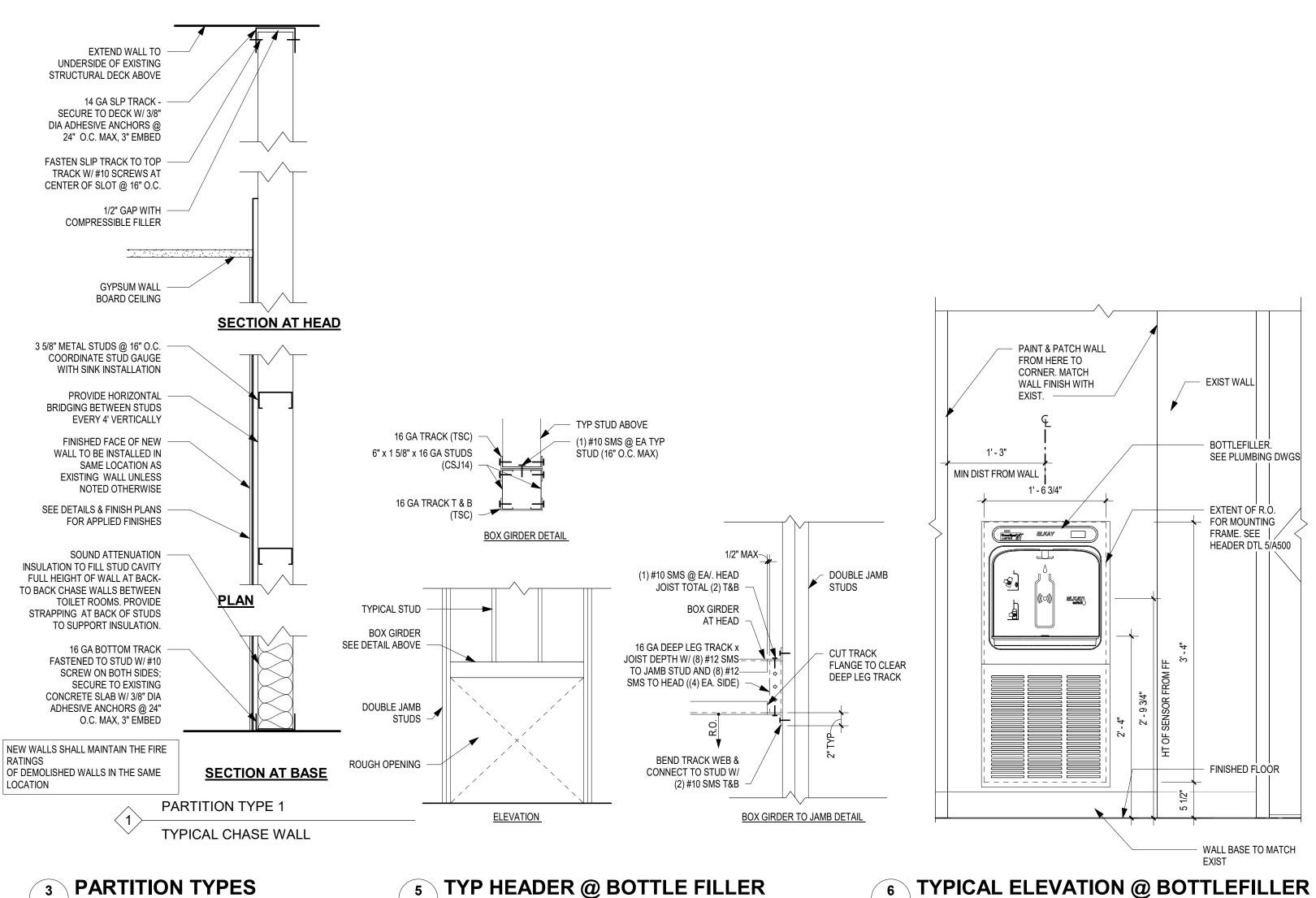
INCL SUPPORT LEGS; URINAL SCREENS 48" H, WALL-MTD.

1 HAND DRYER - SEMI-RECESSED

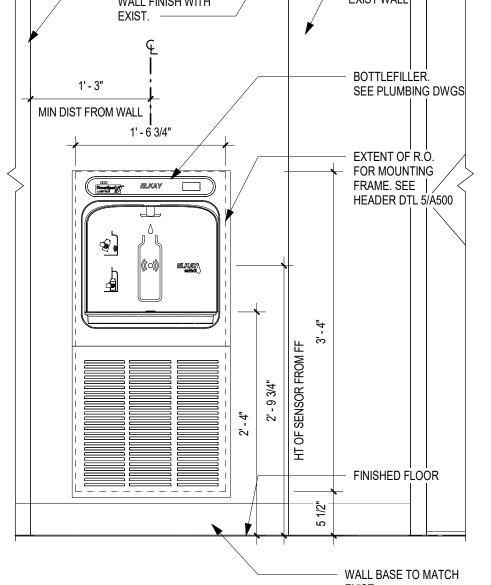
2 TYPICAL MOUNTING HEIGHTS



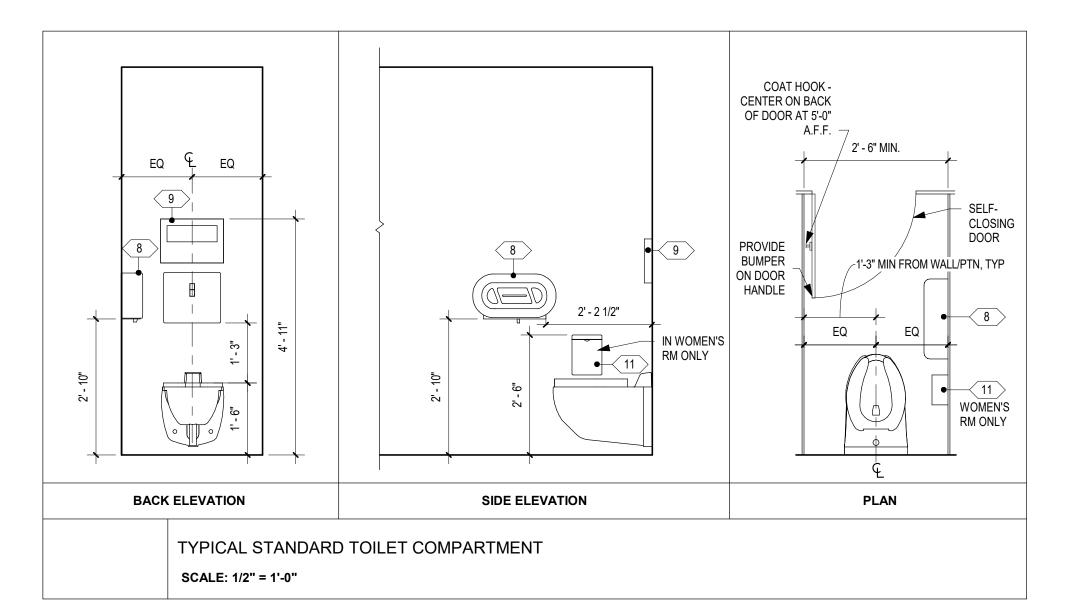
A500 SCALE: 1 1/2" = 1'-0"

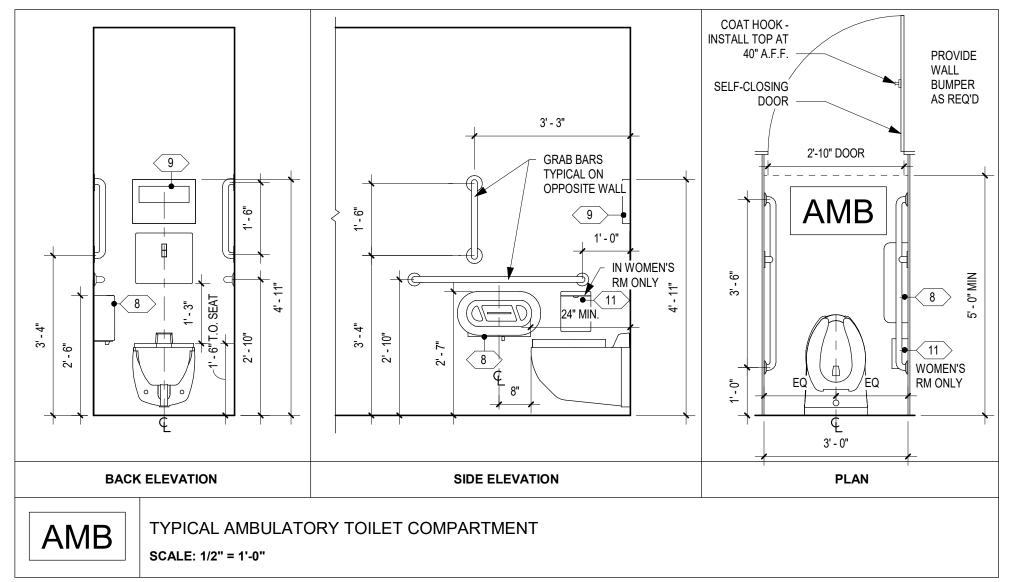


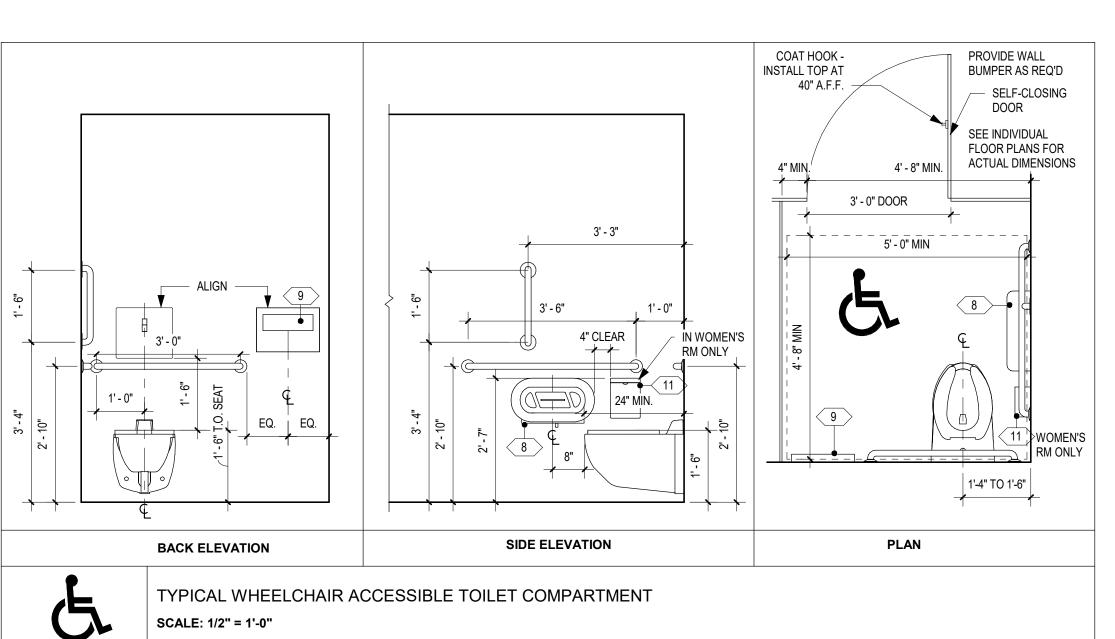
A500 SCALE: 1" = 1'-0"



6 TYPICAL ELEVATION @ BOTTLEFILLER A500 SCALE: 1" = 1'-0"







1. SEE INDIVIDUAL ELEVATIONS FOR TILE NOTES 2. SEE PLANS FOR SIDE OF COMPARTMENTS ON WHICH TO MOUNT ACCESSORIES 3. ALL GRAB BAR DIMENSIONS SHOWN TO CENTERLINE OF GRAB BAR

1 TYPICAL TOILET COMPARTMENTS A500 SCALE: 1/2" = 1'-0"

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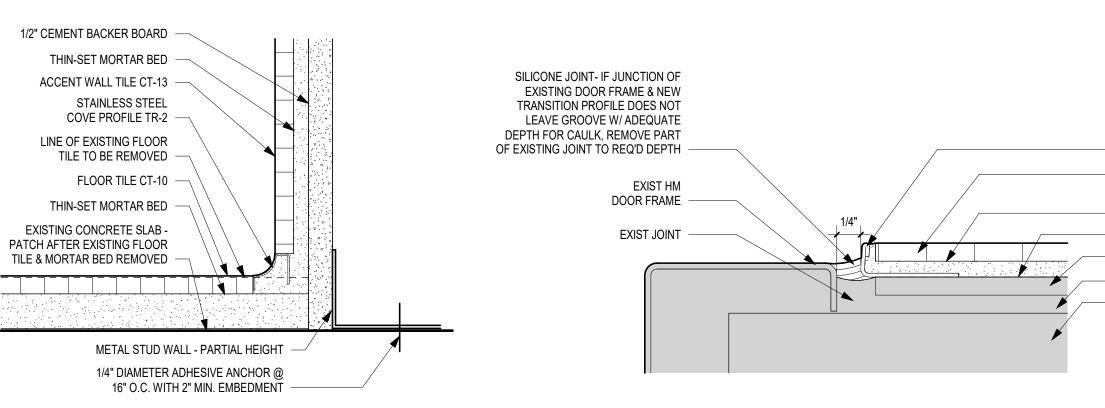
A RESTROOM RENOVATIONS OVERLOOK RESTROOMS -VANIA N CENTER PENNSYLV, 0

TYPICAL DETAILS

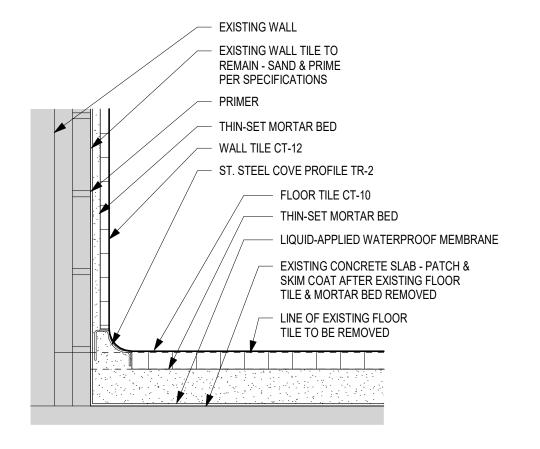
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A500

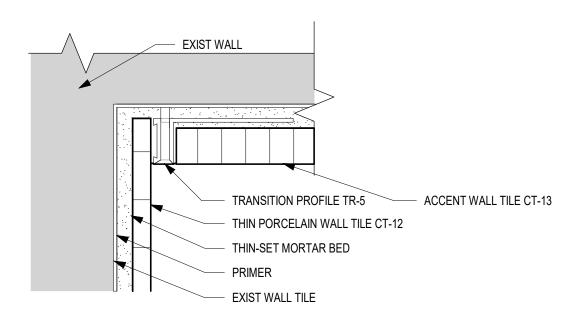




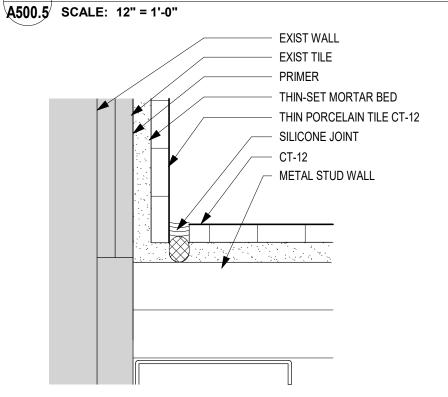
10 SECT DTL - ACCENT WALL TILE @ COVE BASE A500.5 SCALE: 6" = 1'-0"



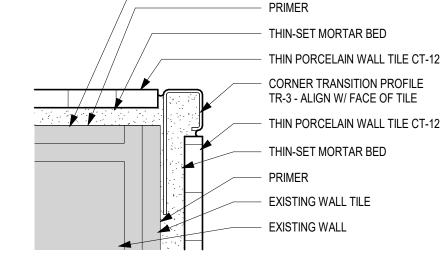
8 SECTION DTL - TYP. COVE BASE A500.5 SCALE: 6" = 1'-0"



6 PLAN DTL - ACCENT TILE AT SINK



5 PLAN DTL - TYP. INSIDE CORNER A500.5 SCALE: 12" = 1'-0"



A500.5 SCALE: 6" = 1'-0"

EXISTING WALL TILE

4 PLAN DTL - TYP. OUTSIDE CORNER

⊕ MAIN <u>CLG</u> ≤ 8'-6" ⊕ SOFFIT CLG_ CEILING ALIGN CT-12 GROUT JOINT W/ SOFFIT WHEN MAIN CEILING IS ≤ 8'-6". OVER SINKS -CUT FIRST COURSE OF CT-12 TILE AT FLOOR

THIN PORCELAIN

WALL TILE CT-12

EXIST WALL TILE

EXIST MORTAR BED

MOVEMENT JOINT TR-6 - 100% SILICONE

CAULK TO MATCH GROUT JOINT WIDTH

LIQUID-APPLIED WATERPROOF MEMBRANE

EXIST CONCRETE SLAB - PATCH & SKIM COAT

TRANSITION PROFILE TR-7

ABOVE BACK AND SIDE

CONTINUOUS BEAD OF

100% SILICONE CAULK BETWEEN TR-5 AND COUNTERTOP

1/2" MARINE-GRADE PLYWOOD

METAL STUD WALL - PARTIAL HEIGHT. ALIGN STUDS WITH

SECURE WITH #10 SCREWS @ 12"

STUDS IN BACKUP WALL &

SPLASHES

- 1/2" QUARTZ COUNTERTOP

FLOOR FIELD TILE CT-10

THIN-SET MORTAR BED

PRIMER

EXIST WALL

11 HEAD/JAMB DTL @ EXIST DOOR FRAME

ALIGN TOPS OF

FIELD & ACCENT

TILES (TILE

THICKNESSES

DIFFER)

SECTION DTL - FLOOR MOVEMENT JOINT

SECTION DTL - ACCENT WALL TILE @ COUNTERTOP

A500.5 SCALE: 12" = 1'-0"

BUILD UP MORTAR BED

FLOOR ACCENT TILE CT-11

AS NECESSARY TO

ALIGN TILE TOPS -

A500.5 SCALE: 12" = 1'-0"

METAL STUD BACKUP WALL

1/2" CEMENT BACKER BOARD

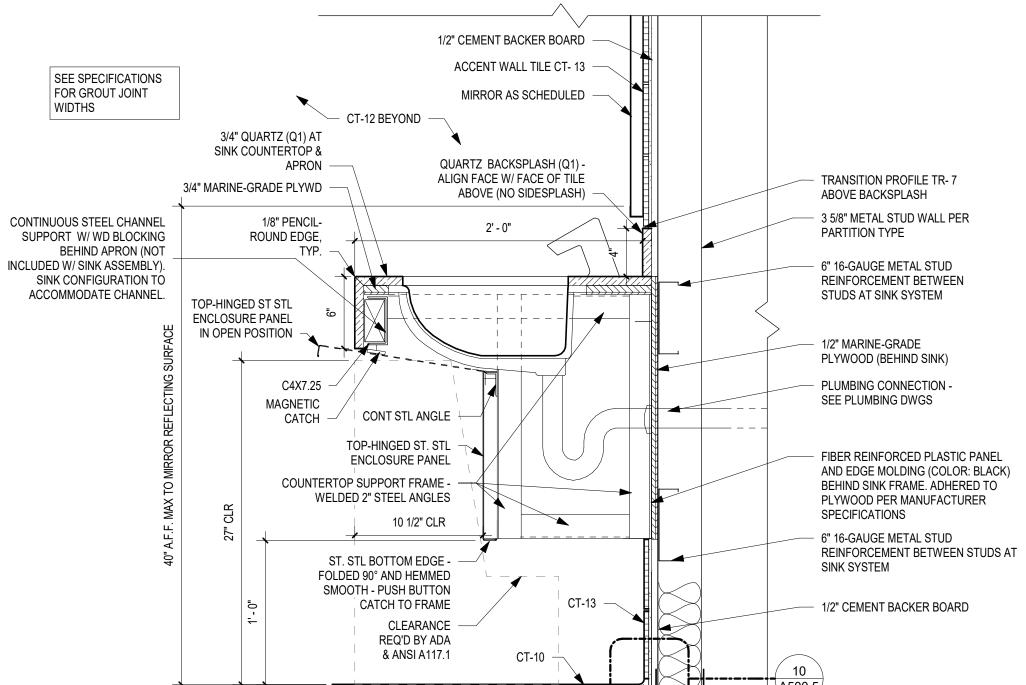
THIN-SET MORTAR BED

ACCENT WALL TILE CT-13

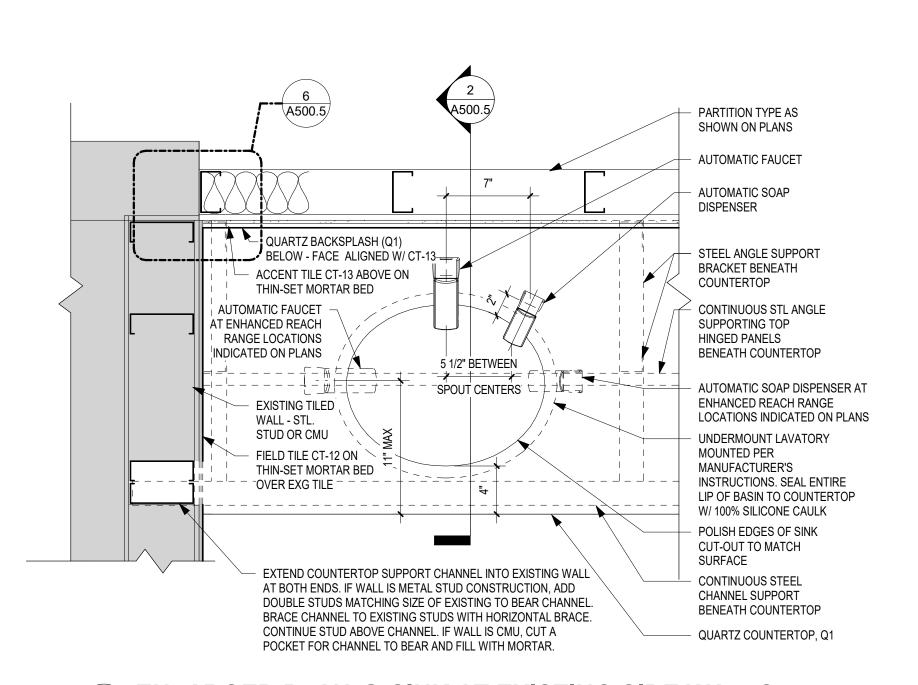
MIRROR AS SCHEDULED

THIN-SET MORTAR BED

3 TYP. WALL TILE LAYOUT @ CLG ≤ 8'-6" A500.5 SCALE: 1 1/2" = 1'-0"



SECTION @ SINK AT EXISTING SIDE WALLS A500.5 SCALE: 1 1/2" = 1'-0"



ENLARGED PLAN @ SINK AT EXISTING SIDE WALLS





VANIA | CENTER PENNSYLV,

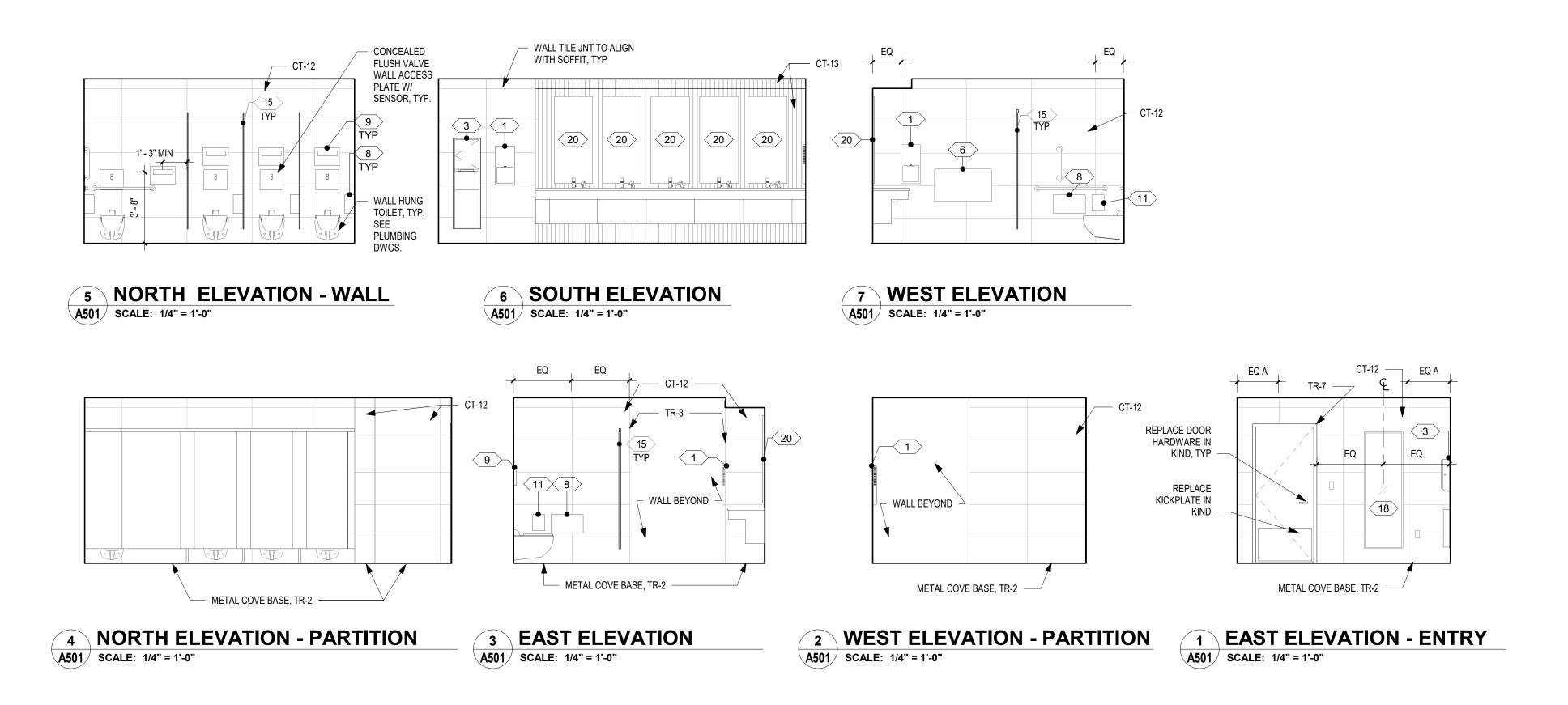
CW1615.06 Project number 03/15/2023 DG Drawn by ΕW Checked by

TYPICAL DETAILS

A500.5

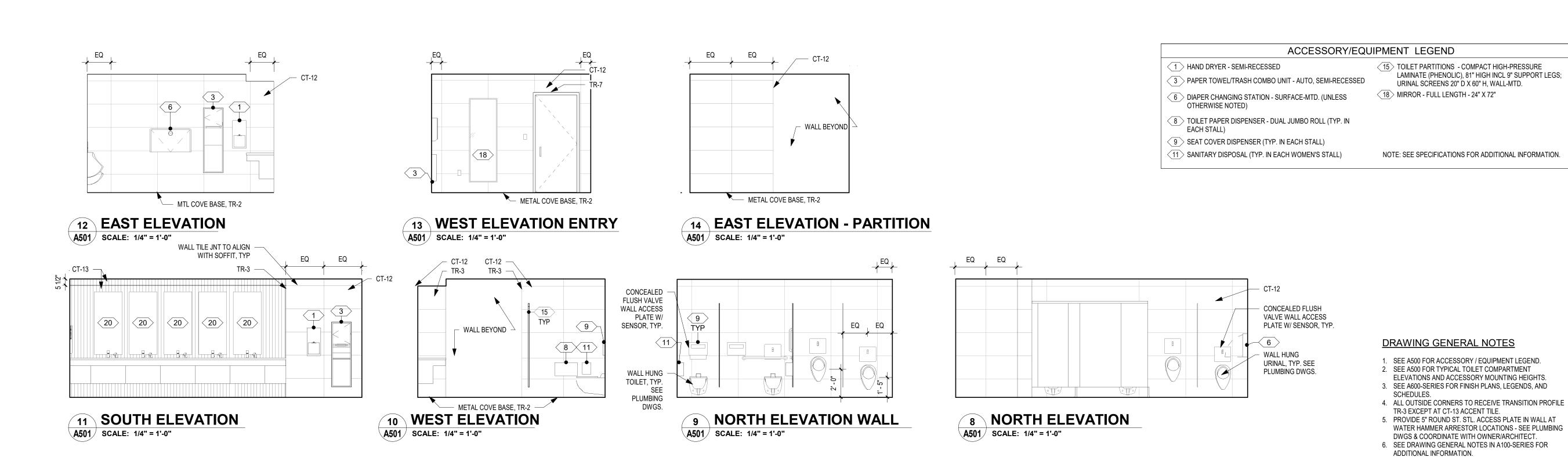
As indicated

A500.5 SCALE: 1 1/2" = 1'-0"



INTERIOR ELEVATIONS - WOMEN'S RESTROOM

INTERIOR ELEVATIONS - MEN'S RESTROOM



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STRUCTURAL ENGINEERS: CSA GROUP

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Contact: Wing Au e-mail: wau@csagroup.com

REVISIONS:

Date Description

PENNSYLVANIA ONVENTION CENTER

INTERIOR ELEVATIONS & DETAILS

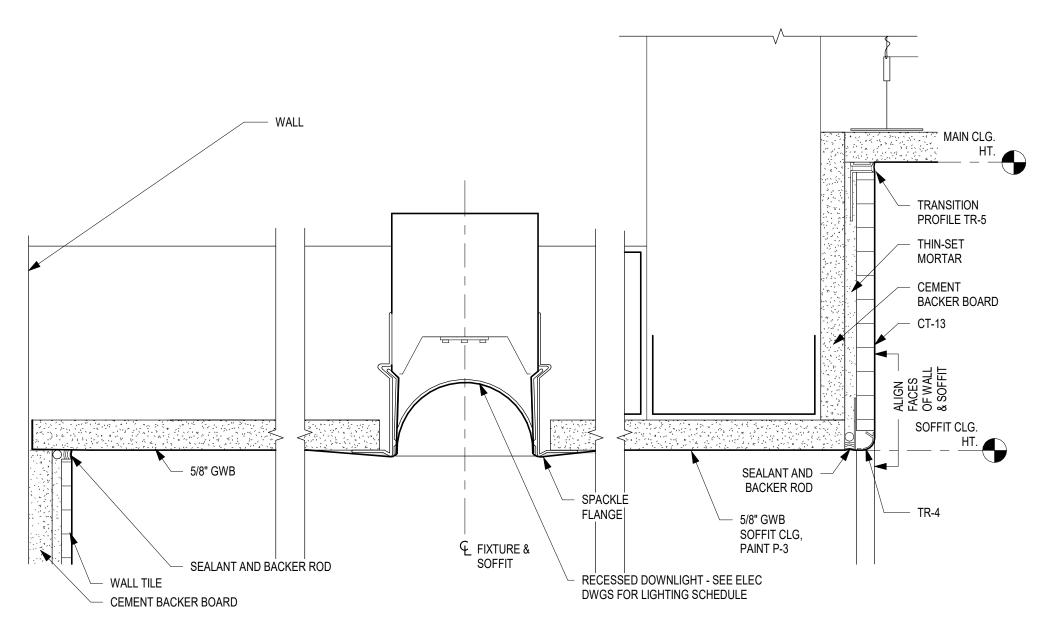
CW1615.06 Project number 03/15/2023 Drawn by DG EW Checked by

A501

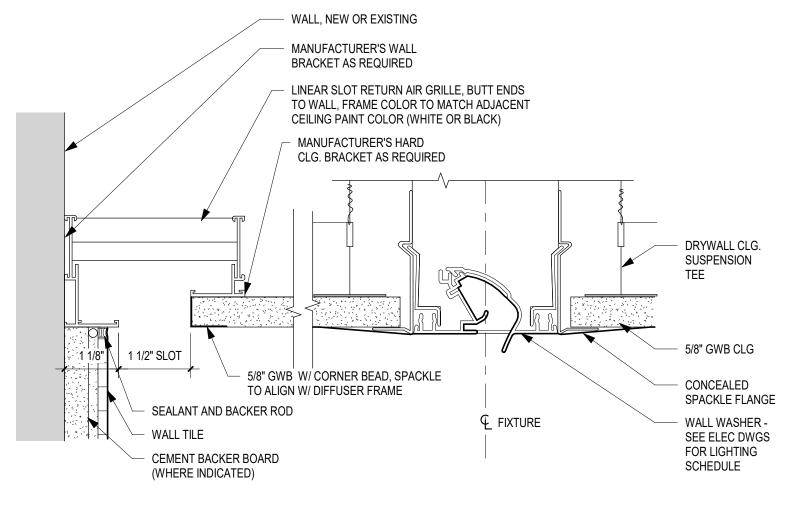
		F	INISH LEGEND			
ABBREV.	ITEM	SUPPLIER/MANUFACTURER	PRODUCT	COLOR	SIZE	COMMENTS
CT-10	CERAMIC FLOOR TILE - FIELD	STONE SOURCE	GROUND FLOOR	GREY - NATURAL	24" x 24"	USE GROUT GR-3, INCLUDING AROUND FLOOR ACCENT BORDER. PROVIDE THRESHOLD AT DOOR
CT-12	CERAMIC WALL TILE - FIELD	MOHAWK TILE	FIANDRE QUIETSTONE	SAND	20"X40"	USE GROUT GR-2. INSTALLED OVER EXISTING TILE
CT-13	CERAMIC WALL TILE - ACCENT	41ZERO42	WIG WAG	BLACK	3" x 6"	USE GROUT GR-4
GR-2	GROUT - WALL	CUSTOM BUILDING PRODUCTS	PRISM	#10 ANTIQUE WHITE	-	SEE SPECIFICATIONS
GR-3	EPOXY GROUT - FLOOR	CUSTOM BUILDING PRODUCTS	CEG-LITE EPOXY GROUT	#183 CHATEAU	-	SEE SPECIFICATIONS
GR-4	GROUT - WALL ACCENT	CUSTOM BUILDING PRODUCTS	PRISM	#60 CHARCOAL	-	SEE SPECIFICATIONS
GR-5	EPOXY GROUT - FLOOR ACCENT	CUSTOM BUILDING PRODUCTS	CEG-LITE EPOXY GROUT	#540 TRUFFLE	-	SEE SPECIFICATIONS
P-1	PAINT - CEILING, FIELD	SHERWIN WILLIAMS	GWB, PAINTED	SW 7007 CEILING BRIGHT WHITE	-	-
P-3	PAINT - SOFFIT AT ACCENT WALL	SHERWIN WILLIAMS	GWB, PAINTED	SW 6258 TRICORN BLACK	-	-
P-5	PAINT - DOORS, FRAME INSIDE	SHERWIN WILLIAMS	GWB, PAINTED	SW 7548 PORTICO	-	-
P-6	PAINT - DOORS, FRAME OUTSIDE	-	MATCH EXISTING	VARIES	-	TO MATCH EXISTING PAINT COLOR - COORDINATE W/ OWNER
P-9	PAINT - GWB WALL AT DRINKING FOUNTAIN	-	MATCH EXISTING	MATCH EXISTING	-	TO MATCH EXISTING PAINT COLOR - COORDINATE W/ OWNER
Q-1	QUARTZ COUNTERTOP	DUPONT ZODIAQ	QUARTZ	CLOUD WHITE	3/4" THICK	SEE SHEET A500.5
「R-2	WALL BASE TRANSITION STRIP	SCHULTER	DILEX-HKU	ST. STL.	3/8"	-
ΓR-3	WALL OUTSIDE CORNER (ALL)	SCHULTER	QUADEC	ST. STL.	TBD	-
ΓR-5	ACCENT WALL INSIDE CORNER	SCHULTER	DILEX-BWA	GS. BLACK	TBD	USE ON INSIDE CORNER JOINTS
ΓR-6	FLOOR MOVEMENT JOINT	CUSTOM BUILDING PRODUCTS	100% SILICONE CAULK		-	TO MATCH FIELD TILE GROUT COLOR #18 CHATEAU AROUND FLOOR ACCENT
TR-7	WALL TILE EDGE	SCHULTER	SCHIENE	ST. STL.	TBD	-

ROOM		FLOOR			BASE	WALL	WALL			CEILIN	G		OTHER
LETTER	NAME	FIELD	INSERT	MOVEMENT JOINT	COVE	NORTH	SOUTH	WEST	EAST	CEILING	COVE CEILING	SOFFIT AT SINKS	COUNTERTOP
01	WOMEN	CT-10	-	-	TR-2	CT-12	CT-12, CT-13	CT-12	CT-12	P-1	-	P-3	Q-1
02	MEN	CT-10	-	-	TR-2	CT-12	CT-12, CT-13	CT-12	CT-12	P-1	-	P-3	Q-1
03	CORR	-	-	-	-	ETR	ETR	P-9	ETR	ETR	-	-	 -
04	CORR	-	-	-		ETR	ETR	ETR	P-9	ETR	-	-	1-

DOOR SCHEDULE											
			DC	OOR			FRAM	E			
DOOR #	LOCATION	ТУРЕ	SIZE	MATERIAL	FINISH (INSIDE/OUTSIDE)	ТҮРЕ	MATERIAL	FINISH (INSIDE/OUTSIDE)	HARDWARE SET	NOTES	
M-1	ENTRY	EXG	-	НМ	P-5/P-6	EXG	НМ	P-5		PROVIDE WALL BUMPERS	
W-1	ENTRY	EXG	-	НМ	P-5/P-6	EXG	НМ	P-5		PROVIDE WALI	







2 CEILING DETAIL
A600 SCALE: 6" = 1'-0"

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REVISIONS:

No. Description

Date

CONVENTION CENTER
CCA RESTROOM RENOVATIONS

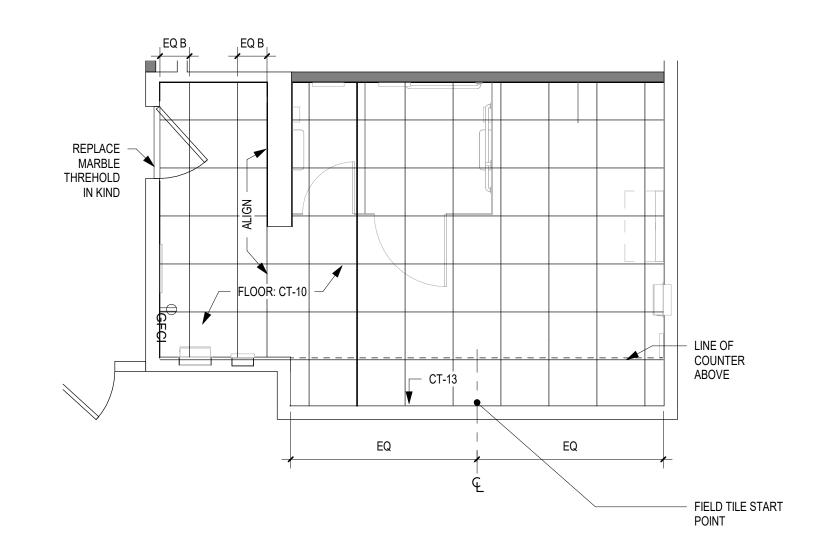
PCCA RESTROOM RENOVATOVERLOOK RESTROOM

TYPICAL CEILING DETAILS & SCHEDULES

Project number	CW1615.06
Date	03/15/2023
Drawn by	DG
Checked by	EW

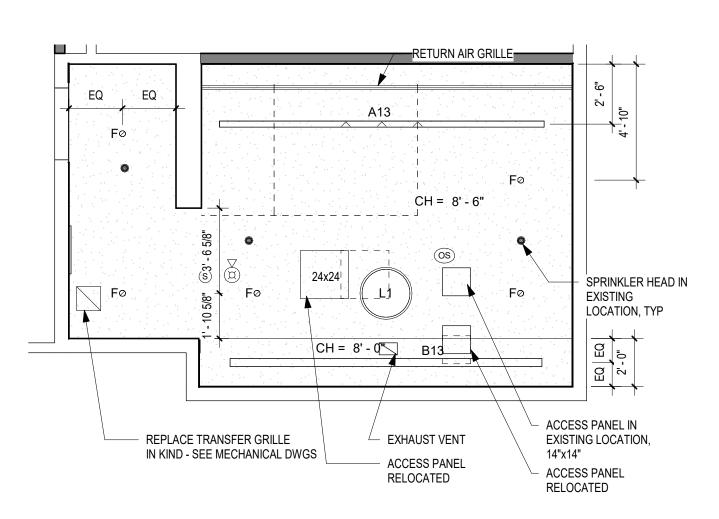
A600

6" = 1'-0"

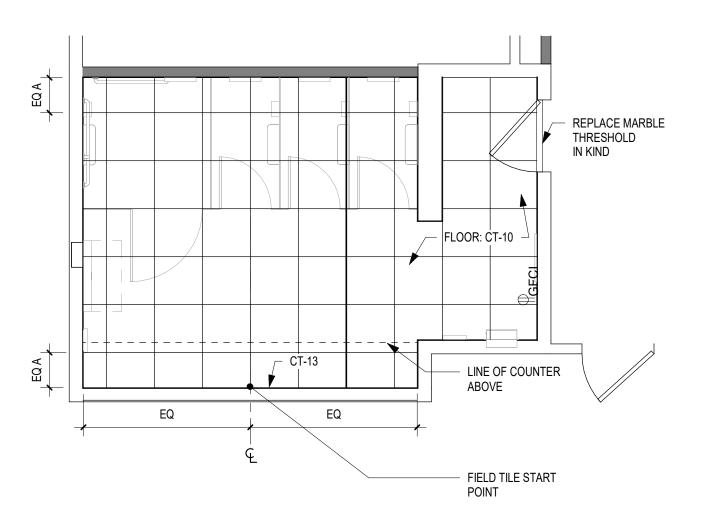


4 FINISH PLAN - MEN'S RESTROOM

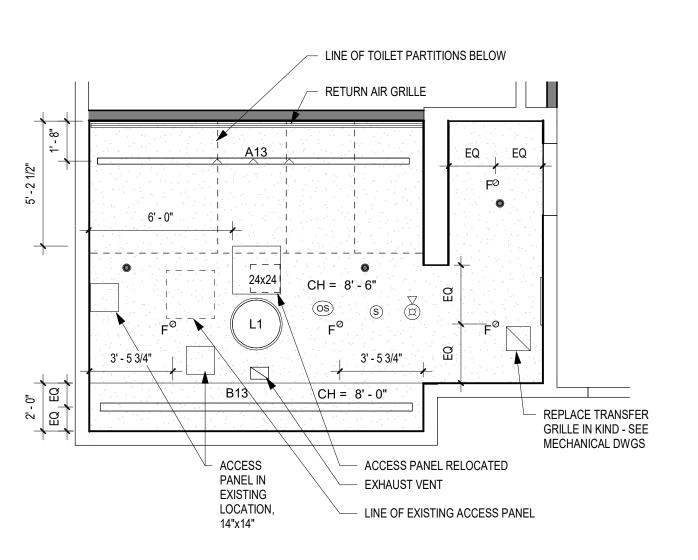
A601 SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN - MEN'S RESTROOM A601 SCALE: 1/4" = 1'-0"



3 FINISH PLAN - WOMEN'S RESTROOM A601 SCALE: 1/4" = 1'-0"



1 REFLECTED CEILING PLAN - WOMEN'S RESTROOM A601 SCALE: 1/4" = 1'-0"

DRAWING GENERAL NOTES

- 1. SEE LUMINAIRE SCHEDULE ON SHEET E500 FOR BASIS OF DESIGN FOR LIGHT FIXTURES SHOWN ON RCP. 2. SEE SHEET A501 FOR INTERIOR ELEVATIONS AND WALL
- TILE PATTERN DETAILS. 3. ALL BASIS OF DESIGN FLOOR AND WALL TILE FINISHES AVAILABLE FROM STONE SOURCE - PHILADELPHIA. CONTACT MARC NASBERG: 202.549.3913;

CONVERSE **WINKLER**

ARCHITECTURE

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- MNASBERG@STONESOURCE.COM 4. VERIFY IN FIELD THE SUITABILITY OF PROPOSED NEW CEILING ACCESS PANEL LOCATIONS. NOTIFY ARCHITECT IF PROPOSED LOCATION DOES NOT PROVIDE ADEQUATE ACCESS, AND PROPOSE ALTERNATE LOCATION. 5. EXISTING CEILING DEVICES ARE TO BE REPLACED WITH
- NEW DEVICES IN SAME QUANTITY, UNLESS OTHERWISE NOTED -- SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION. NEW DEVICE LOCATIONS (IN SAME GENERAL AREA AS EXISTING DEVICES) ARE AS INDICATED
- 6. NEW SPRINKLER HEADS TO BE CONCEALED/RECESSED TYPE. WHERE FEASIBLE, SPRINKLER HEADS ARE TO BE REPLACED IN SAME LOCATION AS EXISTING - SEE DRAWINGS.
- 7. CEILING OCCUPANCY SENSORS TO BE INSTALLED SO AS TO PROVIDE COMPLETE ROOM COVERAGE.
- 8. PAINT CEILINGS P-1 UNLESS NOTED OTHERWISE.

Contact: Wing Au e-mail: wau@csagroup.com **CEILING LEGEND** X RECESSED LINEAR LED WALL WASHER RECESSED LINEAR LED SLOT LIGHT LIGHTED PORTION RECESSED LINEAR LED SLOT LIGHT WITH CUSTOM EXTENDED PANEL EXTENDED METAL PANEL (SHADED) SQUARE RECESSED LED DOWNLIGHT ROUND RECESSED LED DOWNLIGHT SQUARE RECESSED LED WALL WASHER **REVISIONS:** ROUND RECESSED LED WALL WASHER No. Description LED PENDANT FIXTURE + - - X LINEAR LED COVE LIGHTING 2'-0" DIAMETER SURFACE MTD. ROUND **FIXTURE** 2'-0" DIAMETER RECESSED ROUND FIXTURE 1'-6" DIAMETER SURFACE MTD. ROUND **FIXTURE** RETURN AIR DIFFUSER SUPPLY AIR DIFFUSER LINEAR SLOT RETURN AIR GRILLE ACCESS PANEL PENNSYLVANIA ONVENTION CENTER SPRINKLER HEAD FIRE ALARM DEVICE

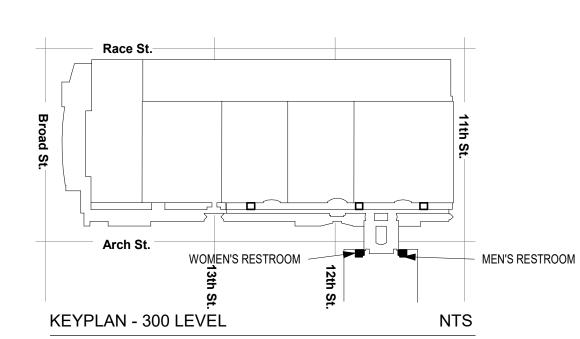
OCCUPANCY SENSOR

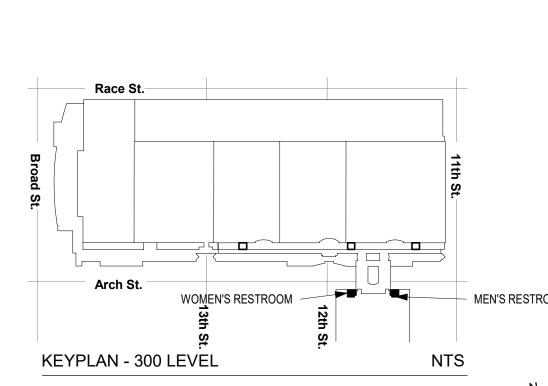
SMOKE DETECTOR

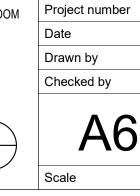
GWB CEILING

S PA SPEAKER

CH = X' - X" CEILING HEIGHT







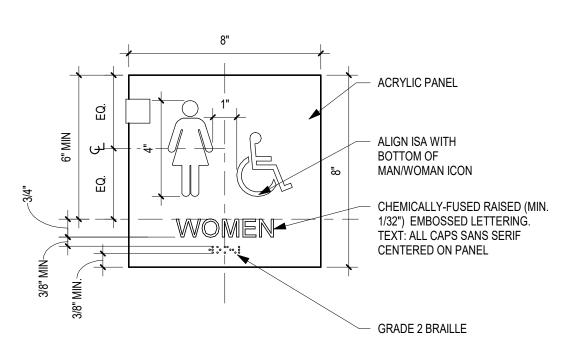
PLANS CW1615.06 03/15/2023 DG

ΕW Checked by A601

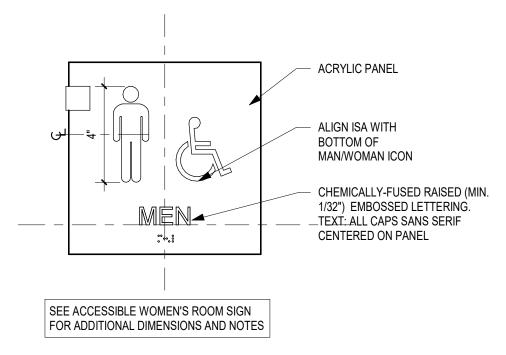
RCP & FINISH

SIGNAGE NOTES:

- 1. SEMINAR/BALLROOM RESTROOM SIGNAGE TO MATCH EXISTING SIGNAGE TYPE AND COLOR IN SAME LOCATION. GC IS TO VERIFY IN FIELD.
- 2. MESSAGE IS AS SHOWN IN DRAWINGS.
- 3. SIGNAGE SHALL BE COMPLIANT WITH ALL BUILDING CODES AND ADA REQUIREMENTS.

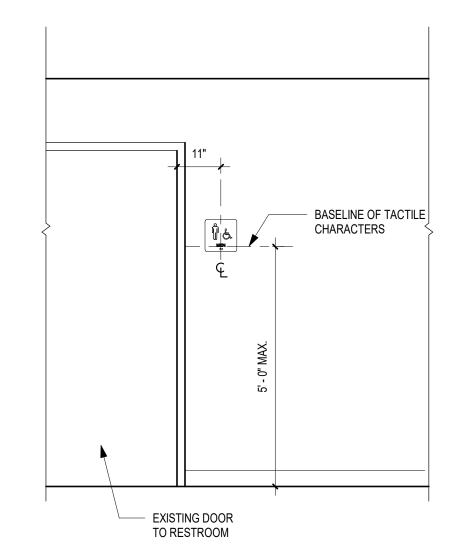


5 A801 SCALE: 3" = 1'-0"

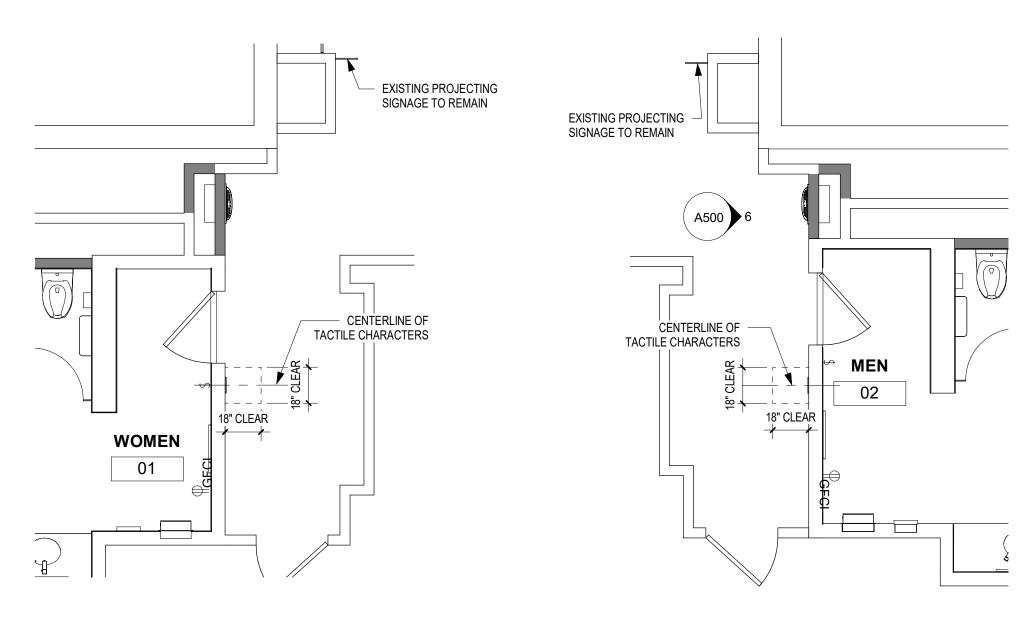


4 TYP. ACCESSIBLE RESTROOM SIGN - MEN'S

SCALE: 3" = 1'-0"



2 TYPICAL SIGN MOUNTING HEIGHT
A801 SCALE: 1/2" = 1'-0"



1 PLAN - RESTROOM ENTRY - SIGNAGE CLEARANCE
A801 SCALE: 1/4" = 1'-0"

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REVISIONS:

No. Description Date

S Z

CONVENTION CENTER

CA RESTROOM RENOVATIONS
OVERLOOK RESTROOMS

RESTROOM SIGNAGE

Project number CW1615.06

Date 03/15/2023

Drawn by DG

Checked by EW

A801

ale As indicated

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS & LAWS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, & EQUIPMENT REQUIRED FOR THE COMPLETION & OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY REPAIR AND/OR REPLACEMENT.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- ALL PENETRATIONS, BOTH NEW AND EXISTING, THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE STOPPING MATERIAL. ALL FIRE STOPPING MATERIAL SHALL BE SUPPLIED AND WORK PERFORMED AS PER PROJECT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAILS FOR FIRESTOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- WHERE UTILITIES AND/OR SERVICES REQUIRE SHUTDOWN FOR THE WORK TO BE PERFORMED, NOTIFY THE OWNER. REQUESTS FOR UTILITY AND/OR SERVICES SHUTDOWNS SHALL BE SUBMITTED TO THE OWNER, IN WRITING, A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED SHUTDOWN.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA OR CONFINES OF THE WORK AREA.
- ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- A COPY OF THE CURRENT SET OF CONTRACT DOCUMENTS (WITH AS-BUILT INFORMATION) SHALL BE KEPT AT THE JOB SITE AT ALL TIMES BY THE CONTRACTOR
- EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES FOR A THOROUGH UNDERSTANDING OF PROJECT AND ANY CROSS REFERENCING OF WORK, REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. DISCREPANCIES BETWEEN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING. IN CASE OF DISCREPANCIES, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF WORK OF THE PROJECT BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO THE OWNER.
- IN ADDITION TO SPECIFICATIONS, AS MAY BE DEFINED HEREAFTER, THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK AGAINST ANY DAMAGE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT AS-BUILT RECORD DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWING MADE IN THE INSTALLATION, AND SHOWING DIMENSION LOCATIONS OF CONCEALED EQUIPMENT.
- PRIOR TO DELIVERY OF ANY MATERIALS TO THE SITE, THE CONTRACTOR SHALL PROVIDE MATERIAL SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THE WORK.
- ALL EXISTING ABANDONED PIPING OR PIPING MADE ABANDONED BY WORK OF THIS PROJECT SHALL BE REMOVED FROM WITHIN THE PROJECT BOUNDARIES. CUT AND CAP PIPING BACK TO A POINT 6" BEYOND (OUTSIDE OF) THE PROJECT BOUNDARIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE CUTTING AND PATCHING OF ALL CEILINGS, FLOORS AND WALLS AS REQUIRED.
- BOUNDARY LINES SHOWN ON THE DRAWINGS DO NOT LIMIT THE SCOPE OF WORK FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NOTED ON THE DRAWINGS.
- PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, BALANCED, AND OPERATED TO DEMONSTRATE TO THE OWNER, OR HIS DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT
- 18. ANY EQUIPMENT REQUIRING CEILING ACCESS SHALL ONLY BE PERMITTED/LOCATED IN ACCESSIBLE TYPE CEILING AREAS (I.E. LAY-IN TYPE CEILING) OR WHERE ACCESS PANELS HAVE BEEN LOCATED. REFER TO ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL SECURE & PAY FOR ALL PERMITS, INSPECTION CERTIFICATES, ETC. REQUIRED UNDER THE PROJECT SCOPE.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS & EXISTING CONDITIONS AND/OR POTENTIAL PROBLEMS OBSERVED PRIOR TO CONTINUING WORK.
- 21. DO NOT SCALE THE PLANS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, FIXTURES, WALL DIMENSIONS, ETC.
- ALL EQUIPMENT SHALL BE HANDLED, STORED, & PROTECTED TO PREVENT DAMAGE BEFORE & DURING INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 23. ALL EQUIPMENT, ETC., SHALL BE SO LOCATED & INSTALLED IN A READILY ACCESSIBLE LOCATION SO AS TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS, PER MANUFACTURER'S INSTRUCTIONS & APPLICABLE CODES.
- THE CONTRACTOR SHALL PROVIDE & INSTALL ACCESS DOORS FOR ACCESS TO EACH CONCEALED VALVE, PIECE OF EQUIPMENT, ETC.
- ALL MATERIALS SHALL BE NEW & SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AT SITE.
- ALL PIPING, APPARATUS, EQUIPMENT, ETC. SHALL BE PROPERLY SUPPORTED, BRACED VERTICALLY & HORIZONTALLY IN ACCORDANCE WITH APPLICABLE CODES & AS REQUIRED TO PREVENT EXCESSIVE
- THE CONTRACTOR SHALL VERIFY & CORRECT SYSTEMS AS REQUIRED, TO MEET ALL CODES & REGULATIONS. VERIFY AND CORRECT ANY/ALL POSSIBLE DISCREPANCIES BETWEEN TYPE & SIZE OF CONNECTIONS SPECIFIED IN THE EQUIPMENT SCHEDULES & EQUIPMENT ACTUALLY INSTALLED.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL EQUIPMENT SHOWN ON PLANS, INCLUDING COORDINATION OF ANY EQUIPMENT OF ALTERNATE MANUFACTURER. CONTRACTOR SHALL PROVIDE COMPOSITE DRAWINGS AS REQUIRED FOR INSTALLATION OF EQUIPMENT SHOWN ON PLAN FOR APPROVAL BY ENGINEER.
- THE CONTRACTOR SHALL CORE DRILL (SAW CUT FOR DUCTWORK), OPENINGS THROUGH WALLS AND FLOORS FOR NEW DUCTWORK AND PIPING PENETRATIONS AS REQUIRED. CORE DRILLED OPENINGS SHALL BE SLEEVED AND SEALED WITH FIREPROOF MATERIAL. CONTRACTOR SHALL CORE DRILL 1/4" Ø PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BENEATH CORE DRILL AREA. REPLACE ANY/ALL CEILING TILES THAT ARE REMOVED/DAMAGED DUE TO THIS WORK. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.

GENERAL MECHANICAL NOTES

- 1. THE CONTRACTOR SHALL FURNISH & INSTALL A COMPLETE HVAC SUPPLY AND EXHAUST SYSTEM TO ALL NEW DIFFUSER LOCATIONS AS NOTED ON THE DRAWINGS. VERIFY ALL ROUGH-IN LOCATIONS. COORDINATE HVAC LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL INSTALL DUCTWORK SYSTEMS PER LATEST SMACNA MANUALS. DUCT WORK SYSTEMS SHALL BE GALVANIZED G90 SHEET STEEL RATED FOR A PRESSURE CLASS OF 2" WG.

GENERAL PLUMBING NOTES

- PROJECT IS LOCATED IN THE CITY OF PHILADELPHIA AND SHALL COMPLY WITH THE 2018 PHILADELPHIA PLUMBING CODE, AS ADOPTED OCTOBER 2019 AND PHILADELPHIA WATER DEPARTMENT REGULATIONS. WHERE A CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE PERTINENT CODES AND STANDARDS, THE MOST STRINGENT SHALL GOVERN
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS & EXISTING CONDITIONS AND/OR POTENTIAL PROBLEMS OBSERVED PRIOR TO CONTINUING WORK.
- THE CONTRACTOR SHALL FURNISH & INSTALL A COMPLETE PLUMBING SYSTEM FOR ALL FIXTURES AND/OR EQUIPMENT REQUIRING SUCH. VERIFY ALL ROUGH-IN LOCATIONS & COORDINATE PIPING LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS.
- 4. VALVES & FITTINGS SHALL BE OF THE SAME SIZE AS THE PIPING FOR WHICH THEY ARE INSTALLED, UNLESS OTHERWISE NOTED.
- STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS.
- COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGARS, SUPPORTS, ANCHORS, & CLIPS SHALL BE COPPER OR COPPER PLATED WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING. SATISFACTORY & PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PREVENT CONTACT WITH OTHER METALS.
- COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, COPPER OR RED BRASS SLEEVES SHALL BE USED. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY WITH ASPHALTIC ENAMEL & 15# ASPHALT SATURATED FELT BETWEEN PIPE & MASONRY PARTITION.
- 8. WATER PIPING SHALL NOT BE RUN IN AREAS SUBJECT TO FREEZING TEMPERATURES UNLESS OTHERWISE NOTED. WATER PIPING IN EXTERIOR WALLS SHALL BE RUN ON THE SIDE OF THE WALL INSULATION THAT BORDERS THE CONDITIONED SPACE.
- PROVIDE VACUUM BREAKERS, WATER HAMMER ARRESTERS AND ALL OTHER ACCESSORIES AS REQUIRED BY CODE.
- 10. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES, EXCEPT FINAL CONNECTIONS TO FIXTURES, OR IN MECHANICAL ROOMS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 11. THE CONTRACTOR SHALL VERIFY EXACT INVERT ELEVATIONS OF EXISTING PIPING TO WHICH NEW PIPING IS TO BE CONNECTED BEFORE INSTALLATION OF NEW PIPING.
- 12. PROVIDE SLEEVES & FIRE STOP SEALANTS AT ALL PENETRATIONS OF PIPE THROUGH FIRE RATED FLOORS & WALLS AS REQUIRED. COMPLY WITH ASTM E-814 & UL 1479.
- CONTRACTOR IS RESPONSIBLE FOR RECONNECTING SANITARY, CW & HW SUPPLY LINES TO ANY FIXTURE OR LINE OUTSIDE OF TOILET ROOM THAT IS AFFECTED BY DEMOLITION OF SANITARY, CW & HW SUPPLY LINES WITHIN OR PASSING THROUGH AREA OF TOILET ROOM.

GENERAL FIRE PROTECTION NOTES

- THIS PROJECT INVOLVES THE DEMOLITION OF EXISTING FIRE PROTECTION SPRINKLER HEADS AND PIPING WITHIN THE SCOPE OF WORK. CONTRACTOR SHALL PROVIDE FURNISHING, PERMITTING, INSTALLING AND TESTING OF NEW FIRE PROTECTION PIPING AND VALVES COMPLYING WITH NFPA 13.
- 2. THE PROJECT SHALL BE BASED ON A MIXED USE GROUP OCCUPANCY IN ACCORDANCE WITH THE FOLLOWING CODES, STANDARDS, TESTING LABORATORIES AND UNDERWRITING AGENCY:
- 2018 ICC, PER PA UNIFORM CONSTRUCTION CODE.
- NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS LATEST ADOPTED EDITION.
- NFPA 70, NATIONAL ELECTRIC CODE, LATEST EDITION
- ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, LATEST EDITION
- UL LISTED PRODUCTS
- FM GLOBAL APPROVED PRODUCTS MANUFACTURERS INSTALLATION INSTRUCTIONS
- PROJECT SPECIFICATIONS
- THE CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE PREPARATION AND SIMULTANEOUS SUBMISSION OF SEALED SHOP DRAWINGS ACCOMPANIED BY COMPLETE PRODUCT DATA. PARTIAL SUBMISSIONS WILL BE
- 4. THE CONTRACTOR SHALL SHOW ALL FINAL LOCATIONS ON THE SHOP DRAWINGS THAT ARE COORDINATED WITH THE OTHER TRADES, PRIOR TO SUBMISSION TO THE ARCHITECT FOR APPROVAL.
- 5. PIPE SHALL BE STANDARD-WEIGHT SCHEDULE 40, ASTM A120/53 STEEL PIPE FOR WET-PIPE FIRE PROTECTION SYSTEMS. PIPING SHALL BE IN COMPLIANCE WITH NFPA 13.
- 6. SCHEDULE 10 PIPING IS NOT PERMITTED.
- 7. 2" PIPING AND SMALLER SHALL BE THREADED FITTINGS ONLY.
- 8. 2-1/2" PIPING AND LARGER SHALL BE THREADED OR MECHANICAL FITTINGS.
- 9. PIPING COMPONENTS AND FITTINGS SHALL BE RATED FOR A MINIMUM 175 PSIG.
- 10. PIPING SHALL BE INSTALLED TIGHT TO SLABS, BEAMS, JOISTS, COLUMNS, WALLS, AND OTHER BUILDING ELEMENTS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR AND ROOF SLABS.
- 11. HANGARS AND SUPPORTS SHALL COMPLY WITH NFPA 13.
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS & LAWS OF AUTHORITIES HAVING JURISDICTION. HYDROSTATIC TESTS FOR ALL NEWLY INSTALLED PIPING AT NOT LESS THAN 200 PSI PRESSURE FOR TWO HOURS. ALL TESTING SHALL CONFORM TO NFPA 13.

GENERAL FIRE PROTECTION NOTES(CONT)

- FIRE PROTECTION PIPING SHALL HAVE LABELS, TAGS OR PIPE MARKERS ON EQUIPMENT AND PIPING IN ACCORDANCE WITH NFPA 13 AND PACKAGE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL NEW AND EXISTING WORK, INCLUDING LIGHTS, GRIDS, HVAC EQUIPMENT ETC. NOTIFY ARCHITECT OF CEILING ELEMENT CONFLICTS PRIOR TO CONTINUING WORK. ROUTING OF ALL PIPING SHALL BE COORDINATED WITH THE STRUCTURE, ARCHITECTURAL FINISHES, AND EQUIPMENT OF OTHER TRADES.
- THE CONTRACTOR SHALL PLUG ALL PIPE OUTLETS CAUSED BY THE RELOCATION/REMOVAL OF SPRINKLER PIPING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CEILING REPLACEMENT OR RECONSTRUCTION ASSOCIATED WITH THE FIRE PROTECTION SYSTEM SCOPE OF WORK.
- THE CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS UPON COMPLETION OF WORK
- WORK AND RECHARGE THE SYSTEM UPON LEAVING FOR THE SCHEDULED WORK DAY.

FLANGED JOINT

TRANSITION

ELBOW UP, DOWN

DIRECTION OF FLOW

TEE UP, DOWN

PIPE SLOPE

FLOOR DRAIN

CLEAN OUT

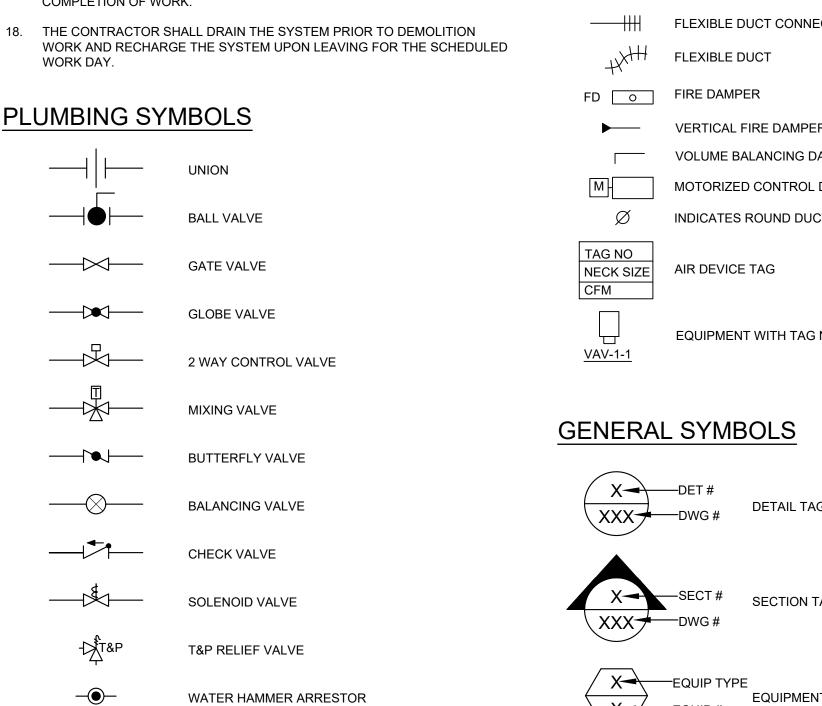
FLOOR CLEAN OUT

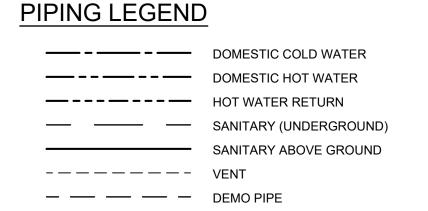
WATER HAMMER ARRESTOR

ECCENTRIC REDUCER

CONCENTRIC REDUCER

PLUMBING SYMBOLS

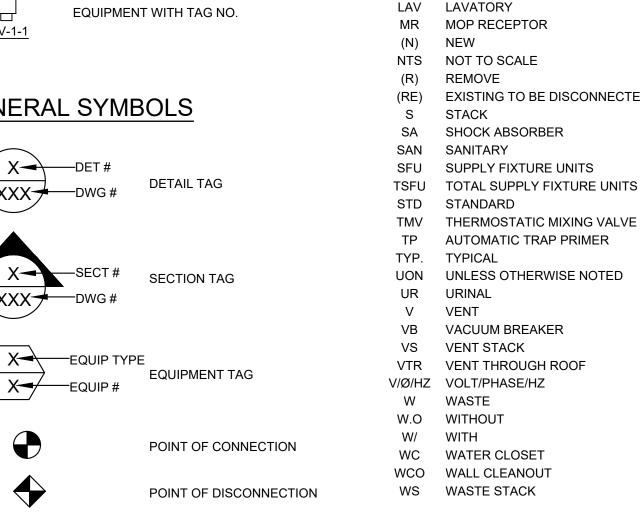




FIRE PROTECTION SYMBOLS

EXISTING CONCEALED SPRINKLER HEAD CONCEALED SPRINKLER HEAD

DUCTWORK SYMBOLS **ABBREVIATIONS** SUPPLY DUCT TURNING UP (ROUND OR ABV ABOVE RECTANGULAR) AD ACCESS DOOR SUPPLY DUCT TURNING DOWN (ROUND OR RECTANGULAR) AMERICAN WITH DISABILITIES ACT RETURN DUCT TURNING UP ABOVE FINISH FLOOR AHJ AUTHORITIES HAVING JURISDICTION RETURN DUCT TURNING DOWN ACCESS PANEL ASPE AMERICAN SOCIETY OF PLUMBING ENGINEERS EXHAUST DUCT TURNING UP AWS AMERICAN WELDING SOCIETY EXHAUST DUCT TURNING DOWN BEL BELOW CEILING RETURN, EXHAUST OR TRANSFER BFF BELOW FINISHED FLOOR CUBIC FEET PER MINUTE CFM CEILING SUPPLY DIFFUSER CO CLEANOUT CW DOMESTIC COLD WATER MITERED ELBOW WITH TURNING VANES CWFU COLD WATER FIXTURE UNITS DRINKING FOUNTAIN DF SQUARE OR RECTANGULAR DUCTWORK DFU DRAINAGE FIXTURE UNITS DIA DIAMETER FLEXIBLE DUCT CONNECTION DIMENSION DIM DN DOWN EWC ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER (E) EXISTING TO REMAIN EXHAUST FAN VERTICAL FIRE DAMPER EG EXHAUST GRILL (ER) EXISTING TO BE RELOCATED **VOLUME BALANCING DAMPER** FIXTURE UNITS FU MOTORIZED CONTROL DAMPER DOMESTIC HOT WATER HWFU HOT WATER FIXTURE UNITS INDICATES ROUND DUCTWORK HWR HOT WATER RETURN INTERNATIONAL BUILDING CODE INTERNATIONAL CODE COUNCIL INTERNATIONAL MECHANICAL CODE INCHES IPC INTERNATIONAL PLUMBING CODE



EXISTING TO BE DISCONNECTED AND REMOVED

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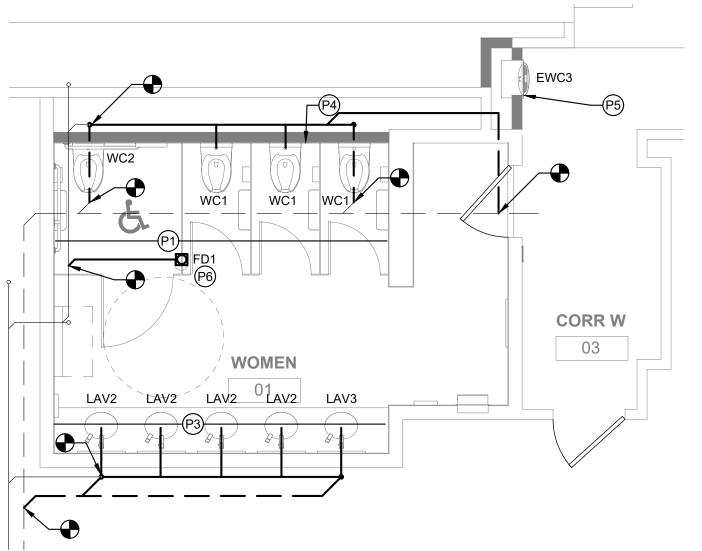
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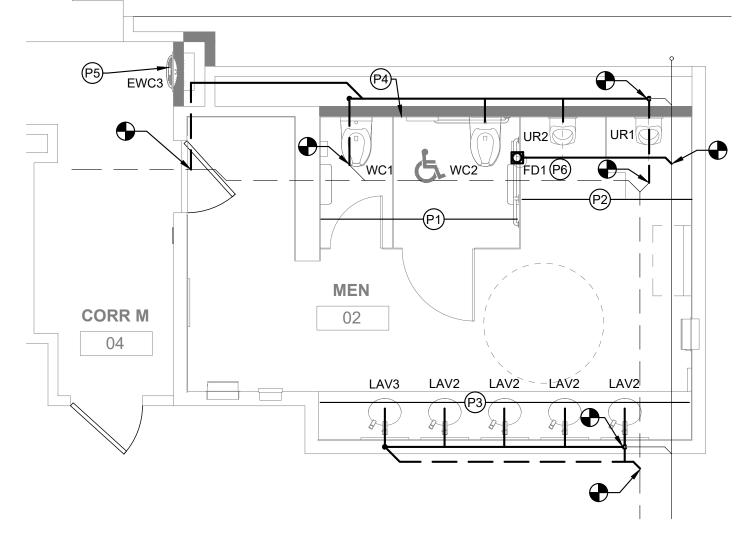
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GENERAL NOTES ABBREVIATIONS & LEGEND

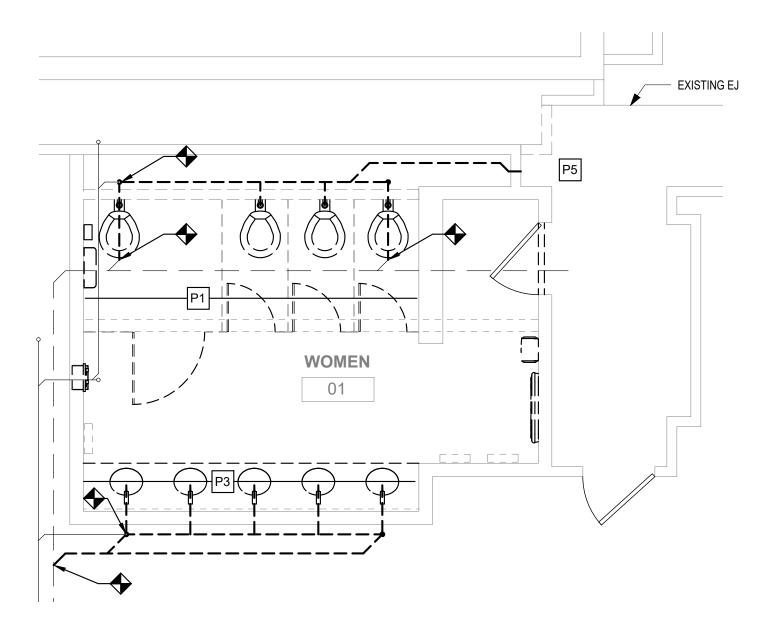
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3 PLAN - WOMEN'S RESTROOM
M101 SCALE: 1/4" = 1'-0"



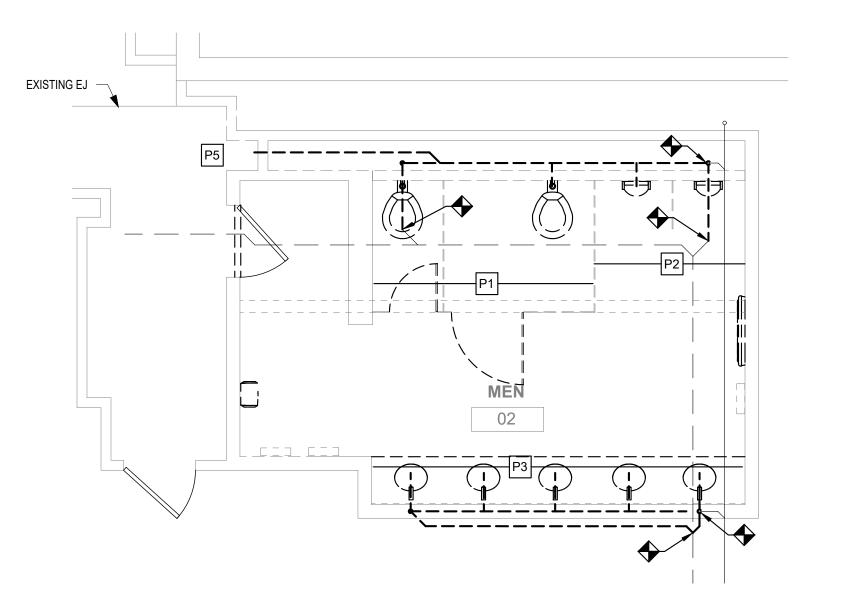
4 PLAN - MEN'S RESTROOM M101 SCALE: 1/4" = 1'-0"



DEMO PLAN - WOMEN'S RESTROOM

M101 SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE QUANTITIES - WOMEN'S												
	EXIST	ΓING FIX	TURES	NE	W FIXTL	IRES	NET CHA	NGE				
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU				
WATER CLOSET	4	8	32	4	8	32	0	0				
URINAL	0	4	0	0	0 4		0	0				
LAVATORY	5	2	10	5	2	10	0	0				
ELECTRIC WATER COOLER	1	1	1	1	1	1	1	0				
FLOOR DRAIN	0	0	0	1	0	0	1	0				
	TOTAL 43					43	NET CHANGE	0				



DEMO PLAN - MEN'S RESTROOM

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

	PLUMBING FIXTURE QUANTITIES - MEN'S												
ĺ		EXIST	ΓING FIX	TURES	NE	W FIXTL	IRES	NET CHANGE					
	DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU				
	WATER CLOSET	2	8	16	2	8	16	0	0				
	URINAL	2	4	8	2	4	8	0	0				
	LAVATORY	5	2	10	5	2	10	0	0				
	ELECTRIC WATER COOLER	1	1	1	1	1	1	1	0				
	FLOOR DRAIN	FLOOR DRAIN 0 0					0	1	0				
			TOTAL	35		TOTAL	35	NET CHANGE	0				

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M701 FOR SCHEDULES AND DETAILS.
- 3. REFER TO DRAWING M800 SERIES FOR SANITARY AND VENT RISER DIAGRAMS.
- 4. PIPE SIZES AS NOTED ARE FROM HISTORICAL CONSTRUCTION DOCUMENTS DATED BETWEEN 1990 AND 1992. CONTRACTOR SHALL VERIFY ALL SIZES ARE AS SHOWN PRIOR TO START OF WORK. PROVIDE NEW, REPLACE OR MODIFY AS REQUIRED.
- 5. KEYED NOTES MAY NOT APPEAR IN ALL PLAN VIEWS.
- 6. WATER HAMMER ARRESTORS ARE SHOWN FOR APPROXIMATE LOCATION. CONTRACTOR SHALL FIELD COORDINATE FINAL PLACEMENT WITH CONNECTION OF NEW FIXTURES.
- 7. DOMESTIC COLD AND HOT WATER PIPE NOT SHOWN. SEE DOMESTIC WATER NEW WORK NOTES.
- 8. NEW INSULATION SHALL BE INSTALLED FOR ALL NEW DOMESTIC COLD WATER, HOT WATER AND HOT WATER RETURN PIPING.

DOMESTIC WATER NEW WORK:

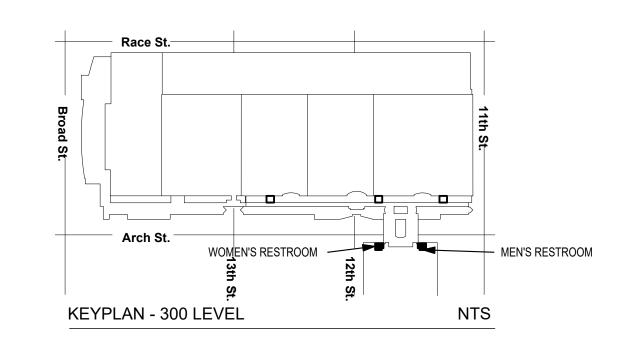
- CONTRACTOR TO DEMOLISH ALL EXISTING CW & HW WATER SUPPLY PIPE EXPOSED BY INTERIOR DEMOLITION WITHIN THE TOILET ROOM. CUT EXISTING SUPPLY PIPE AT LIMIT OF TOILET ROOM POTIONS
- 2. CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING CW & HW SUPPLY PIPE CAPPED DURING DEMOLITION.
- 3. CONTRACTOR TO PROVIDE NEW DOMESTIC 1/2" CW AND HW DOMESTIC WATER SUPPLY TO EACH LAVATORY (LAV) FIXTURE.
- 4. CONTRACTOR TO PROVIDE 1" CW DOMESTIC WATER SUPPLY TO EACH WATER CLOSET (WC) FIXTURE.
- 5. CONTRACTOR TO PROVIDE 3/4" CW DOMESTIC WATER SUPPLY TO EACH URINAL (UR) FIXTURE.
- 6. WHERE NEW FLOOR DRAINS ARE NOTED ON DRAWINGS, PROVIDE NEW 1/2" TRAP PRIMER CONNECTION.
- 7. CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS TO DOMESTIC WATER SUPPLY LINES PRIOR TO LAST FIXTURE IN SERIES AS INDICATED. SEE WATER HAMMER ARRESTOR SCHEDULE SHEET M-200.

NEW WORK KEYED NOTES

- PROVIDE NEW WATER CLOSET AND ALL ACCESSORIES AS NOTED ON FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO, FLUSHOMETER, CARRIER, SHUT OFF VALVE, SEAT, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- PROVIDE NEW URINAL AND ALL ACCESSORIES AS NOTED ON FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO, FLUSHOMETER, CARRIER, SHUT OFF VALVE, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- PROVIDE NEW LAVATORY AND ALL ACCESSORIES AS NOTED ON FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO, FAUCETS, SOAP DISPENSERS, HAND DRYERS, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- PROVIDE ACCESS PANEL FOR WATER HAMMER ARRESTOR MAINTENANCE. COORDINATE LOCATION WITH NEW DOMESTIC WATER PIPE ELEVATION.
- PROVIDE NEW RECESSED BOTTLE FILLER WITH ALL TRIM AND ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (NOT USED)
- (NOT USED)

DEMOLITION KEYED NOTES

- P1 REMOVE EXISTING WATER CLOSET, FLUSH VALVE, CARRIER, PIPING AND ACCESSORIES. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P2 REMOVE EXISTING URINAL, FLUSH VALVE, CARRIER, PIPING AND ACCESSORIES. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P3 REMOVE EXISTING LAVATORY, FAUCET, PIPING AND ACCESSORIES. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P4 (NOT USED)
- P5 EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES ARE REMOVED. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 (NOT USED)
- P7 (NOT USED)
- P8 (NOT USED)







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No. Description

CONVENTION CENTER
CCA RESTROOM RENOVATIONS
OVERLOOK RESTROOMS

DEMOLITION & NEW FLOOR PLANS

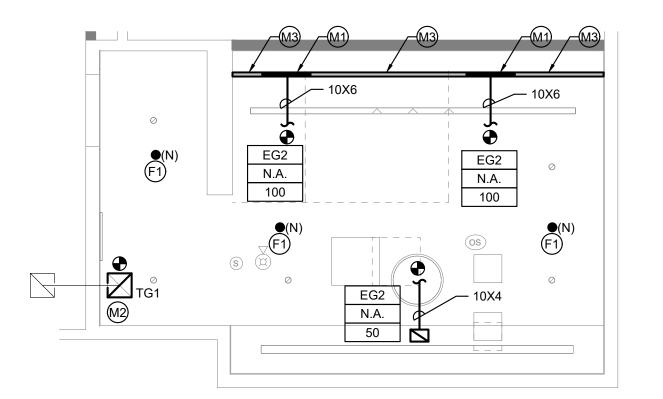
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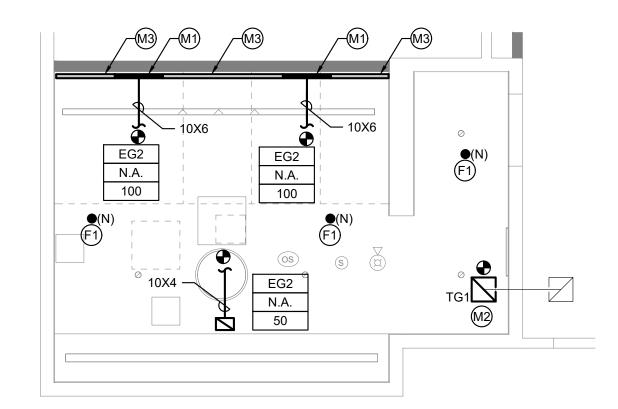
Date 03/15/2023

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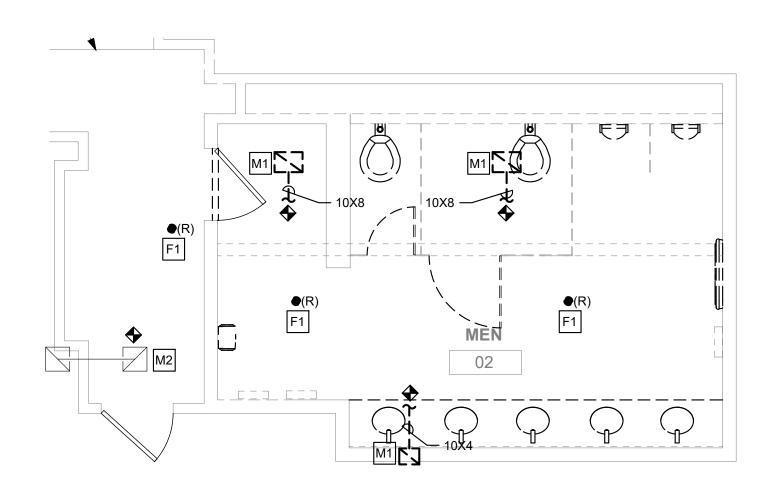
M101





4 REFLECTED CEILING PLAN - MEN'S RESTROOM M601 SCALE: 1/4" = 1'-0"

3 REFLECTED CEILING PLAN - WOMEN'S RESTROOM M601 SCALE: 1/4" = 1'-0"

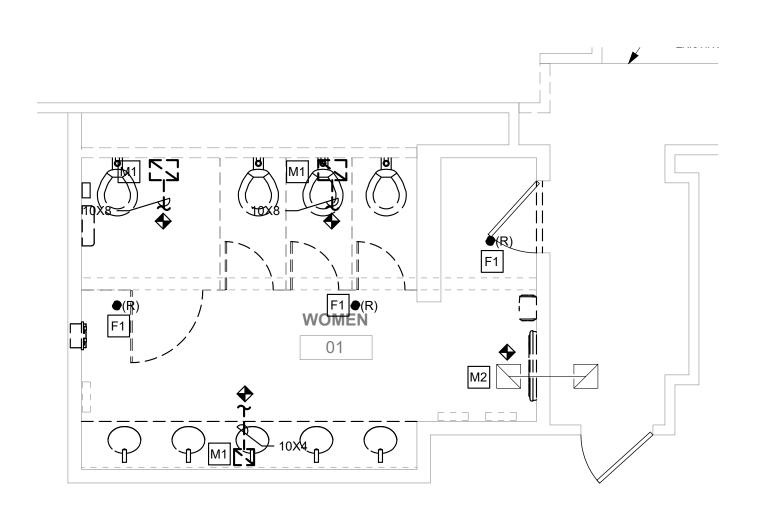




EXHAUST VENTILATION - MEN'S RESTROOM											
ROOM TYPE ROOM NAME TOTAL NUMBER OF WC'S AND UR'S EXHAUST AIR (CFM PER FIXTURE) EXHAUST AIR (CFM REQUIRED) (CFM											
TOILET ROOM-PUBLIC	MEN	4	50	200	250						
NOTES:											

I. EXHAUST PROVIDED PER SECTION 403 OF THE 2021 IMC (PER PA UCC AS ADOPTED FEB 14, 2022).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.



1 DEMO PLAN - WOMEN'S RESTROOM

EXHAUST VENTILATION - WOMEN'S RESTROOM											
ROOM TYPE ROOM NAME TOTAL NUMBER OF WC'S AND UR'S EXHAUST AIR (CFM PER FIXTURE) EXHAUST AIR (CFM REQUIRED) (CFM PROVIDED)											
TOILET ROOM-PUBLIC	TOILET ROOM-PUBLIC WOMEN 4 50 200 250										
NOTES:											
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2021 IMC (PER PA UCC AS ADOPTED FEB 14, 2022).											
2. EXHAUST RUNS CON	TINUOUSLY	DURING OCCUPIED	PERIOD.								

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M701 FOR SCHEDULES AND DETAILS.
- 3. EXISTING SPRINKLER HEADS SHALL NOT BE RE-INSTALLED. REUSING SPRINKLER HEADS REMOVED WITHIN PROJECT SCOPE IS PROHIBITED.
- 4. ALL SPRINKLERS SHALL BE CONCEALED SPRINKLER HEADS. SPRINKLER FINISH SHALL BE COORDINATED WITH THE ARCHITECT.
- 5. DUCT SIZES AS NOTED ARE FROM HISTORICAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL SIZES ARE AS SHOWN PRIOR TO START OF WORK. PROVIDE NEW/REPLACE OR MODIFY AS REQUIRED.
- 6. KEYED NOTES MAY NOT APPEAR IN ALL PLAN VIEWS.

NEW WORK KEYED NOTES

- PROVIDE NEW CEILING MOUNTED LINEAR SLOT GRILLE FOR TOILET ROOM EXHAUST. CONNECT TO EXISTING EXHAUST DUCTWORK. PROVIDE TRANSITION FROM EXISTING TO NEW. RE-BALANCE EXHAUST SYSTEM AS NOTED ON DRAWING AND IN ACCORDANCE WITH 2018 IMC. WHERE NOTED BY ARCHITECT, GRILLE COLOR TO MATCH SOFFIT COLOR. CONTRACTOR TO PAINT FLAT BLACK THE ENTIRE INTERIOR OF PLENUM BOX AND ANY VISIBLE DUCTWORK.
- (M2) PROVIDE NEW CEILING MOUNTED TRANSFER GRILLE.
- M3 PROVIDE SPACER SECTIONS FOR CONTINUITY OF GRILLE FOR CONTINUOUS GRILLE APPEARANCE IN SOFFIT. CONTRACTOR TO PROVIDE BLANK OFF PANELS ABOVE GRILLES TO OBSCURE STRUCTURE ABOVE FROM VIEW.
- (F1) PROVIDE NEW CONCEALED SPRINKLER HEAD. CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE TO ACCOMMODATE NEW SPRINKLER HEAD LOCATION CONDITIONS. WHERE NOT ABLE TO REUSE EXISTING PIPING, NEW PIPING SHALL BE PROVIDED.
- (F2) (NOT USED)

Arch St.

KEYPLAN - 300 LEVEL

WOMEN'S RESTROOM

PRE-DEMOLITION BALANCING NOTE

PRIOR TO START OF ANY WORK, MEASURE AND RECORD EXISTING EXHAUST AIRFLOWS THRU EXISTING GRILLES. SUBMIT PRE-DEMOLITION BALANCING REPORT TO ENGINEER PRIOR TO STARTING ANY WORK. VERIFY (E) BALANCING PROVISIONS AND PROVIDE NEW/ADDITIONAL BALANCING DAMPERS, ETC AS REQUIRED TO BALANCE NEW INSTALLATION TO VALUES INDICATED.

DEMOLITION KEYED NOTES

- REMOVE EXISTING EXHAUST GRILLE. PREPARE DUCT FOR INSTALLATION OF NEW GRILLE. REFER TO ARCHITECTURAL PLAN FOR NEW CEILING HEIGHT. REFER TO NEW WORK PLAN FOR NEW GRILLE LOCATION.
- M2 REMOVE TRANSFER AIR GRILLE. PREPARE DUCT FOR INSTALLATION OF NEW GRILLE. REFER TO ARCHITECTURAL PLAN FOR NEW CEILING HEIGHT. REFER TO NEW WORK PLAN FOR GRILLE LOCATION.
- FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M701, DETAIL 1 FOR TYPICAL MODIFICATION.

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REVISIONS: Description Date

VANIA N CENTER

REFLECTED **CEILING PLANS**

CW1615.06 03/15/2023 Checked by

- MEN'S RESTROOM

(XX)	GRILLE / REGISTER / DIFFUSER SCHEDULE													
TA C	DECODIDATION	FRAME	CFM	MAXIMUM	NECK SIZE	FACE SIZE			SLOT	DIFFUSE	R	FINICIA	MANUFACTURER & MODEL	COMMENTS
TAG	DESCRIPTION	TYPE	RANGE	NC	(INCHES)	(INCHES)	NOMINAL LENGTH	LENGTH	NO. SLOTS	SLOT WIDTH	REMARKS	FINISH	(BASIS OF DESIGN)	COMMENTS
EG2	LINEAR EXHAUST GRILLE	CEILING MOUNTED	70 - 250	37			24"	23-5/8"	1	1-1/2"	PROVIDE BLANK OFF, KRUEGER MODEL DFBO FOR CONTINUOUS GRILLE IN SOFFIT	FINISH PER ARCHITECT	CEILING, LESS PATTERN	PROVIDE PLENUM BOX BY KRUEGER OR CONSTRUCT BOX IN FIELD. CONTRACTOR SHALL TRANSITION FROM EXISTING DUCTWORK TO NEW PLENUM BOX AND REBALANCE TO CFM AS NOTED ON PLAN VIEWS. BUTT ENDS 03, TYP.
EG3	RECTANGULAR EXHAUST GRILLE	CEILING MOUNTED	50	37	N/A	8" X 6"						FINISH PER ARCHITECT	KRUEGER S80	BLADES SHALL HAVE 35° DEFLECTION ANGLE.
TG1	TRANSFER GRILLE	CEILING MOUNTED	200 -1100		N/A	12" X 12"		-1				FINISH PER ARCHITECT	KRUEGER S85	BLADES SHALL HAVE 35° DEFLECTION ANGLE.
	NOTE:A: 1. EXISTING DUCT SIZES ARE BASED ON HISTORICAL AS BUILT DRAWINGS. EXISTING GRILLE SIZE IS BASED ON SURVEY PHOTOGRAPHS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF PROJECT. 2. CONTRACTOR TO FULLY SEAL VENTS AND PLENUM BOXES TO DUCTS AND PROVIDE BLANK-OFF PANELS TO OBSCURE VIEW OF STRUCTURE ABOVE.													

WA ⁻	TER HAN	MER A	RRESTE	ER SCH	HEDULE
PIPE SIZE (IN)	SYMBOL	AIR CHARGE	PISTON LENGTH	PISTON DIAMETER	FIXTURE UNITS (DFU)
1/2"	А	60 PSIG	6"	1-1/8"	1 - 11
3/4"	В	60 PSIG	7-1/4"	1-1/8"	12 - 32
1"	С	60 PSIG	8-3/4"	1-3/8"	33 - 60
1-1/4"	D	60 PSIG	10-3/16"	1-5/8"	61 - 113

- BASIS OF DESIGN WATER HAMMER ARRESTOR IS JAY R SMITH HYDROTROL, 5200 SERIES.
 DFU COUNT SHALL BE BASED ON PHILADELPHIA PLUMBING CODE.
- REFER TO RISER FOR LOCATION OF WATER HAMMER ARRESTOR.
- REFER TO PLAN FOR ACCESS DOOR LOCATION.

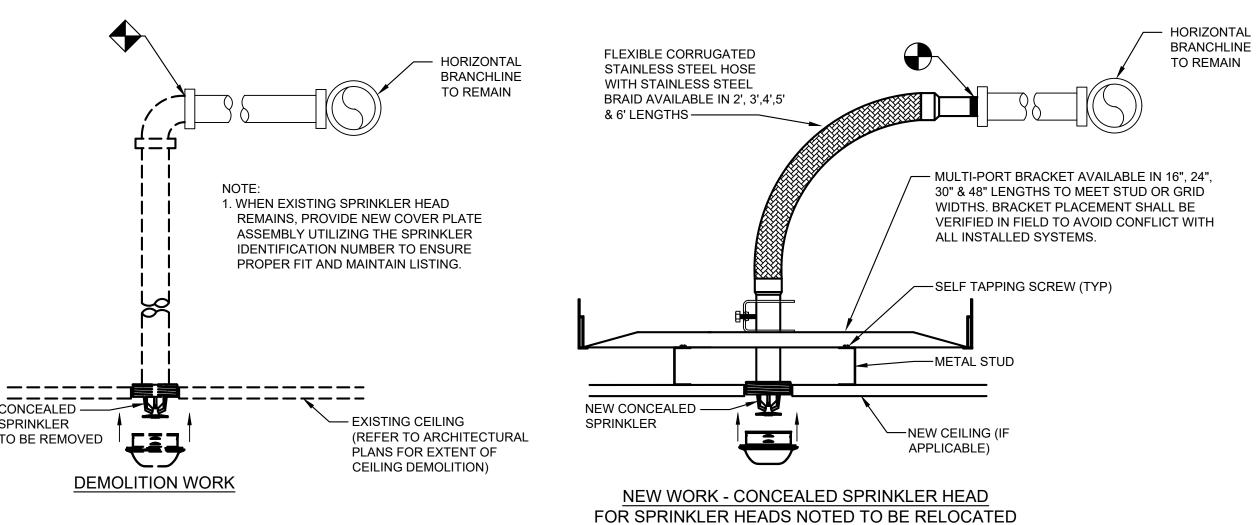
TAG	DESCRIPTION	LOCATION	FIXT	TURE CON	NECTION	SIZE	BASIS OF DESIGN MANUFACTURER, MODEL NUMBER, TRIM AND ACCESSORIES
TAG	DESCRIPTION	LOCATION	CW	HW	SAN	V	BASIS OF DESIGN MANUFACTURER, MODEL NUMBER, TRIM AND ACCESSORIES
WC1	WATER CLOSET	AS NOTED BY ARCHITECT	1"	-	4"	2"	PROVIDE WATER SENSE LABELED TOTO CT708 EVG AND FLUSH VALVE TET2LA31#SS. WATER CLOSET AND CONCEALED FLUSH VALVE FOR A WALL MOUNTED WATER CLOSET WITH A BACK SPUD WATER SUPPLY. SEAT TO BE SC534 OPEN FRONT, LESS COVER.
WC2	WATER CLOSET	ADA BY ARCHITECT	1"	-	4"	2"	PROVIDE WATER SENSE LABELED TOTO CT708 EVG AND FLUSH VALVE TET2LA31#SS. WATER CLOSET AND CONCEALED FLUSH VALVE FOR A WALL MOUNTED WATER CLOSET WITH A BACK SPUD WATER SUPPLY. SEAT TO BE SC534 OPEN FRONT, LESS COVER.
UR1	URINAL	AS NOTED BY ARCHITECT	3/4"	-	2"	2"	PROVIDE WATER SENSE LABELED TOTO UT104 EV AND FLUSH VALVE TEU2LA11#SS. URINAL AND CONCEALED FLUSH VALVE FOR WALL MOUNTED URINAL WITH A BACK SPUD WATER SUPPLY. PROVIDE STAINLESS STEEL DRAIN COVER.
UR2	URINAL	ADA BY ARCHITECT	3/4"	-	2"	2"	PROVIDE WATER SENSE LABELED TOTO UT104 EV AND FLUSH VALVE TEU2LA11#SS. URINAL AND CONCEALED FLUSH VALVE FOR WALL MOUNTED URINAL WITH A BACK SPUD WATER SUPPLY. PROVIDE STAINLESS STEEL DRAIN COVER.
LAV2	LAVATORY	AS NOTED BY ARCHITECT	1/2"	1/2"	1-1/4"	1-1/4"	SLOAN UNDERMOUNT OVAL LAVATORY SS-3001. PROVIDE BASYS MID HEIGHT, CHROME FINISH, SENSOR FAUCET AND HANDS FREE SOAP DISPENSER ESD-500-CP WITH AC ADAPTOR.
LAV3	LAVATORY	ADA BY ARCHITECT	1/2"	1/2"	1-1/4"	1-1/4"	SLOAN UNDERMOUNT OVAL LAVATORY SS-3001. PROVIDE BASYS MID HEIGHT, CHROME FINISH, SENSOR FAUCET AND HANDS FREE SOAP DISPENSER ESD-500-CP WITH AC ADAPTOR.
EWC3	BOTTLE FILLER	EXTERIOR TO REST ROOM	1/2"	-	1-1/4"	1-1/4"	ELKAY RECESSED BOTTLE FILLER MODEL LZWSM8K WITH MOUNTING FRAME. UNIT SHALL HAVE REFRIGERATION AND FILTER. PROVID WITH GREEN COUNTER AND SENSOR FOR WATER ACTIVATION.
FD1	FLOOR DRAIN	TOILET ROOMS	1/2"	-	2"	1-1/4"	JR SMITH 2110 WITH 1/2" TRAP PRIMER CONNECTION. GRATE SHALL BE VANDAL AND HEEL PROOF POLISHED BRONZE.

CDIDTION	LOCATION	FIXT	TURE CON	NECTION	I SIZE	DACIC OF DECION MANUEACTURED MODEL NUMBER, TRIM AND ACCESCORIES	\Box
CRIPTION	LOCATION	CW	HW	SAN	V	BASIS OF DESIGN MANUFACTURER, MODEL NUMBER, TRIM AND ACCESSORIES	
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URINAL	AS NOTED BY ARCHITECT	3/4"	-	2"	2"	PROVIDE WATER SENSE LABELED TOTO UT104 EV AND FLUSH VALVE TEU2LA11#SS. URINAL AND CONCEALED FLUSH VALVE FOR WALL MOUNTED URINAL WITH A BACK SPUD WATER SUPPLY. PROVIDE STAINLESS STEEL DRAIN COVER.	
URINAL	ADA BY ARCHITECT	3/4"	-	2"	2"	PROVIDE WATER SENSE LABELED TOTO UT104 EV AND FLUSH VALVE TEU2LA11#SS. URINAL AND CONCEALED FLUSH VALVE FOR WALL MOUNTED URINAL WITH A BACK SPUD WATER SUPPLY. PROVIDE STAINLESS STEEL DRAIN COVER.	
AVATORY	AS NOTED BY ARCHITECT	1/2"	1/2"	1-1/4"	1-1/4"	SLOAN UNDERMOUNT OVAL LAVATORY SS-3001. PROVIDE BASYS MID HEIGHT, CHROME FINISH, SENSOR FAUCET AND HANDS FREE SOAP DISPENSER ESD-500-CP WITH AC ADAPTOR.	
AVATORY	ADA BY ARCHITECT	1/2"	1/2"	1-1/4"	1-1/4"	SLOAN UNDERMOUNT OVAL LAVATORY SS-3001. PROVIDE BASYS MID HEIGHT, CHROME FINISH, SENSOR FAUCET AND HANDS FREE SOAP DISPENSER ESD-500-CP WITH AC ADAPTOR.	======
TTLE FILLER	EXTERIOR TO REST ROOM	1/2"	-	1-1/4"	1-1/4"	ELKAY RECESSED BOTTLE FILLER MODEL LZWSM8K WITH MOUNTING FRAME. UNIT SHALL HAVE REFRIGERATION AND FILTER. PROVIDE WITH GREEN COUNTER AND SENSOR FOR WATER ACTIVATION.	CONCEALED SPRINKLER TO BE REMOVED
FLOOR DRAIN	TOILET ROOMS	1/2"	-	2"	1-1/4"	JR SMITH 2110 WITH 1/2" TRAP PRIMER CONNECTION. GRATE SHALL BE VANDAL AND HEEL PROOF POLISHED BRONZE.	<u>DEMOI</u>
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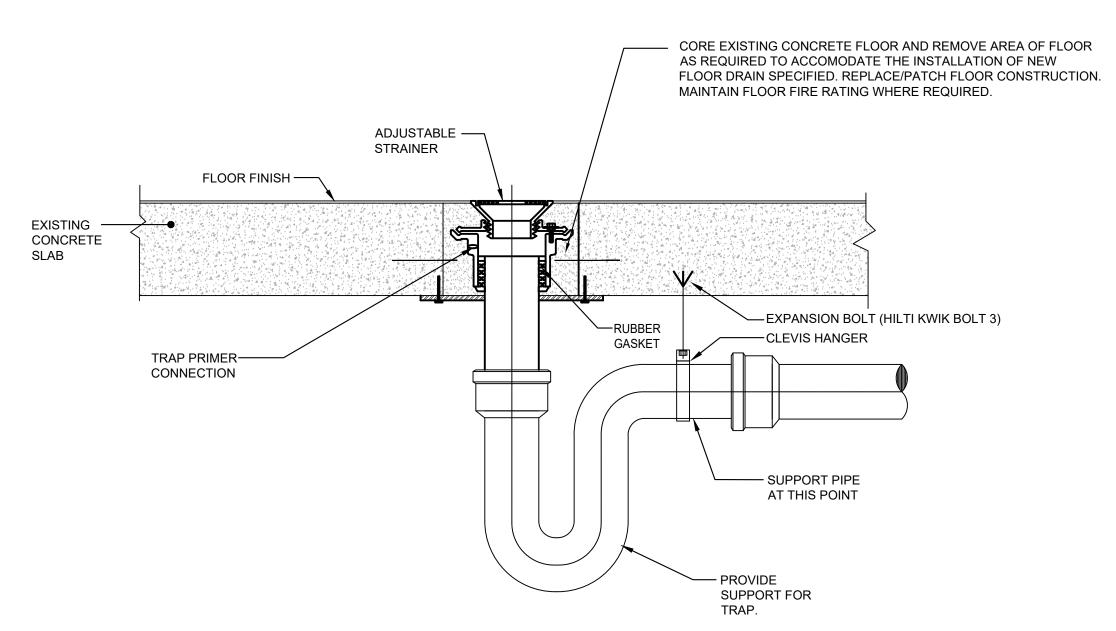
FIRE PROT	ECTIO	AH NC	NGER	SCHE	DULE			
M	AXIMUM DIS	STANCE BET	WEEN HAN	GERS				
NOMINAL PIPES SIZE (in.)	1"	1 - 1/4"	1 - 1/2"	2"	2 - 1/2"	3"	3 - 1/2"	4"
STEEL PIPE	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
HANGERS 4" OR LARGER TO BE	CLEVIS TYPE H	HANGERS, 3" AN	D SMALLER ARI	E ALLOWED TO	BE BAND TYPE H	HANGERS.	-	

NOTE: NOT ALL FIXTURES MAY BE INCLUDED IN PROJECT. REFER TO PLANS FOR FIXTURE TYPES AND QUANTITIES.

S	PRINKLER APPLICAT	TION SO	CHEDU	JLE				
SYMBOL	SPRINKLER TYPE	COVERAGE	RESPONSE	K-FACTOR	NUMBER OF SPRINKLERS	ORIFICE SIZE (IN)	TEMPERATURE RATING (°F)	ESCUTCHEON TYPE / COMMENT
•(N)	CONCEALED PENDENT SPRINKLER	STANDARD	QUICK	5.6	113	1/2"	165	STANDARD BRASS / FLAT CONCEALED COVER PLATE / COLOR BY ARCHITECT



TYPICAL SPRINKLER HEAD RELOCATION MODIFICATION M701 SCALE: NOT TO SCALE





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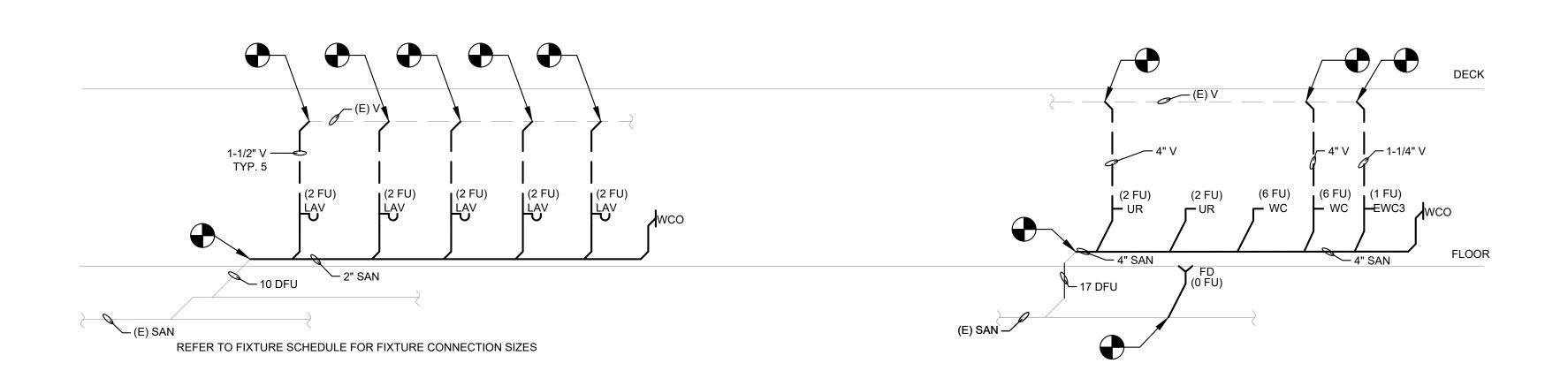
Description

PENNSYLVANIA CONVENTION CENTER

DETAILS AND SCHEDULES

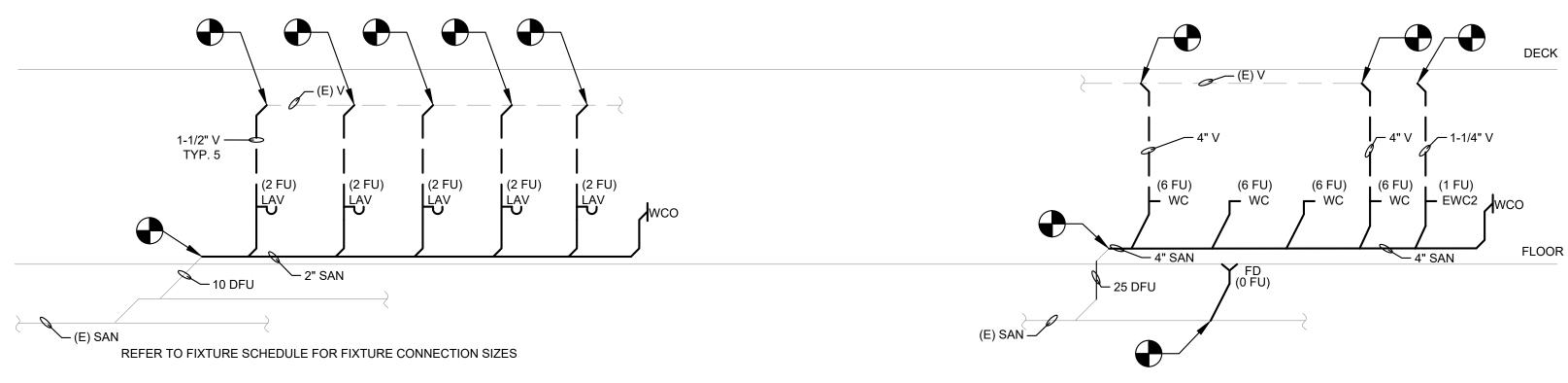
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M701



1 SANITARY RISER MEN'S ROOM - OVERLOOK

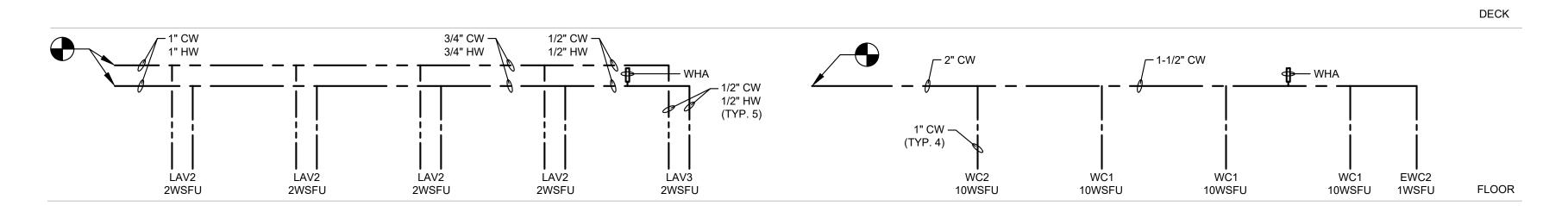
M801 SCALE: NOT TO SCALE



2 SANITARY RISER WOMEN'S ROOM - OVERLOOK M801 SCALE: NOT TO SCALE

1/2" CW -1/2" HW 3/4" HW – 1/2" CW 1/2" HW (TYP. 5) 1/2" CW — 3/4" CW (TYP. 2) LAV2 2WSFU LAV3 2WSFU EWC3 1WSFU UR2 5WSFU WC2 2WSFU 2WSFU 2WSFU 10WSFU 10WSFU 5WSFU FLOOR

3 DOMESTIC WATER RISER MEN'S ROOM - OVERLOOK M801 SCALE: NOT TO SCALE



DOMESTIC WATER RISER WOMEN'S ROOM - OVERLOOK

M801 SCALE: NOT TO SCALE

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REVISIONS:

Description

PCCA RESTROOM RENOVATIONS OVERLOOK RESTROOMS PENNSYLVANIA CONVENTION CENTER

PLUMBING RISER DIAGRAMS

CW1615.06 03/15/2023

M801

GENERAL ELECTRICAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, INCLUDING THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) NFPA 70, AND WITH THE REQUIREMENTS/AMENDMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- 2. CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE
- 3. EACH FEEDER AND BRANCH CIRCUIT SHALL INCLUDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE
- 4. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE PERMITTED. EACH 120V AND 277V BRANCH CIRCUIT SHALL INCLUDE DEDICATED NEUTRAL AND INSULATED GROUNDING CONDUCTORS. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH NEC ARTICLE 250.
- 5. TROUGHS, JUNCTION AND PULL BOXES ARE NOT NECESSARILY INDICATED, BUT SHALL BE PROVIDED WHERE MANDATED BY THE NEC, AND AS REQUIRED FOR EASE OF INSTALLATION. BOXES SHALL BE SIZED (MINIMUM) IN
- FEEDER AND BRANCH CIRCUIT WIRING ARE DEPICTED BY ASSIGNMENT OF CIRCUIT NUMBERS, INTERCONNECTING WIRING AND HOMERUNS, OR HOMERUNS ONLY (FOR SINGULAR LOADS). ALL FEEDERS AND BRANCH CIRCUITS ARE NEW TO BE PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED. INTERIOR WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT AND/OR EMT, 3/4" MINIMUM. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, OR MC CABLE SHALL BE UTILIZED IN LIMITED LENGTHS AS NECESSARY, OR AS REQUIRED/ALLOWED BY CODE.

ACCORDANCE WITH NEC ARTICLE 314. TROUGHS SHALL BE SIZED PER NEC ARTICLE 366

- 7. ALL NEW 600V OVER-CURRENT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING CAPABILITIES OR RATINGS (AIC OR AIR) IN RMS AMPERES SYMMETRICAL. ALL DEVICES SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. ALL PANELBOARDS, SWITCHBOARDS, MDPS, DEVICES, ETC. SHALL BE FULLY RATED.
- 8. ALL BUILDING WIRE SHALL BE COPPER CONDUCTORS, TYPE THHN/THWN (DUAL LISTED) 90 DEGREE CELSIUS RATED INSULATION, #12 AWG MINIMUM, UTILIZE #10 AWG WIRE FOR ANY 15A OR 20A, 120V CIRCUIT THAT EXCEEDS 100 FEET FROM SOURCE TO LAST DEVICE OR OUTLET
- 9. DO NOT THROUGH-FEED WITH GFCI RECEPTACLES FOR DOWNSTREAM DEVICE PROTECTION. EACH WIRING DEVICE REQUIRED TO HAVE GFCI PROTECTION SHALL BE STAND-ALONE
- 10. CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED, UL LISTED, FIRE STOP SEALANT, TOTALLY ENCLOSING ALL PENETRATIONS THROUGH RATED CEILINGS, WALLS, ROOFS, FLOORS, ETC. ALL FLOOR PENETRATIONS SHALL BE CORE-DRILLED, SLEEVED AND SEALED WITH AN APPROVED FIRE RATED SEALANT. CONTRACTOR SHALL SUBMIT LETTER TO OWNER THAT THE REQUIRED FIRE SEALANT WAS INSTALLED PER MANUFACTURER'S REQUIREMENTS. ALL EXISTING PENETRATIONS BETWEEN FLOORS AND WALLS MUST BE CLOSED TO MAINTAIN FIRE RATING.
- 11. THE CONTRACTOR SHALL PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. ANY DEVIATIONS FROM THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN WRITING. IF CHANGES ARE MADE WITHOUT THE ENGINEER'S WRITTEN CONSENT, THE CONTRACTOR SHALL BE LIABLE FOR ANY ISSUES THAT MAY ARISE DUE TO THE CHANGES.
- 12. UNLESS OTHERWISE NOTED, ALL WIRE SIZES SHALL BE BASED ON THE FOLLOWING:
- a. #14 THROUGH #1 OR 100A OR LESS TABLE 310.16 60° COLUMN
- b. #1/0 AND GREATER OR 101A OR GREATER TABLE 310.16 75° COLUMN
- c. OTHER ALLOWANCES OF 110.14(C)
- 13. UNLESS OTHERWISE NOTED, ALL CONDUIT SIZES SHALL BE BASED ON EMT, RMC, OR RNC (PVC SCHEDULE 40).
- 14. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE NEW, LABELED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY OR AGENCY (E.G. UL), UNLESS OTHERWISE NOTED.
- 15. ELECTRICAL CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ALL EQUIPMENT IF NOT INDICATED ON DRAWINGS. IF THERE IS A DISCREPANCY, MANUFACTURER'S INSTRUCTIONS
- 16. THE EC SHALL FURNISH ALL EQUIPMENT, LABOR, SERVICES, AND MATERIALS REQUIRED FOR COMPLETE INSTALLATION OF THE WORK INDICATED. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW.
- 17. REWORK EXISTING EMERGENCY CIRCUITS AS INDICATED FOR NEW LAYOUT
- 18. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO EQUIPMENT.
- 19. ALL WIRING, EQUIPMENT, STARTERS AND CONTROLS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND TO THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- 20. NEW LIGHT SWITCHING IS TO CONTROL 50% ILLUMINATION OF LIGHT FIXTURE PER ENERGY CODE, MOTION ACTIVATION WITH ENERGY EFFICIENT AUTO SHUT OFF MAY BE SUBSTITUTED. MOTION ACTIVATION WILL ELIMINATE DUPLICATE WIRING AND SWITCHING, INDICATED ON PLAN.
- 21. ALL WIRING METHODS SHALL BE NEC COMPLIANT AND MEET THE REQUIREMENTS OF THE SPACE, OCCUPANCY
- 22. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY AND CONFIRM ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES ON THE DRAWINGS. COPIES OF THIS DRAWING WITHOUT A PROFESSIONAL ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL NOT BE CONSIDERED VALID AND ARE FOR CONVENIENCE TO THE USER AT THEIR OWN RISK.
- 23. ALL NEW BREAKERS AND/OR DEVICES BEING INSTALLED IN EXISTING ELECTRICAL PANELS OR EQUIPMENT SHALL MATCH THE CHARACTERISTICS OF THE EXISTING EQUIPMENT IN MANUFACTURER, TYPE, MINIMUM SHORT CIRCUIT RATING, ETC.
- 24. FURNISH ALL NECESSARY MATERIALS, TOOLS AND LABOR AND INSTALL A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE FULLY CONNECTED TO SOURCES OF CURRENT SUPPLY AND LEFT READY FOR USE. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED.

FIRE ALARM PHASING NOTES

- PERFORM AN INITIAL TEST IN ACCORDANCE WITH THE TESTING PROCEDURES OUTLINED IN NFPA 72 FOR THE FIRE ALARM DEVICES IN EACH AREA OF WORK. NOTE ANY DEFICIENCIES. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND RECORD.
- 2. SUBMIT SHOP DRAWING. IDENTIFY SPECIFIC TIE-IN LOCATIONS FOR FIRE ALARM DEVICES. IDENTIFY MEANS AND METHODS FOR MAINTAINING CIRCUIT CONTINUITY.
- 3. EXTEND CIRCUITS AS REQUIRED FOR EXISTING CIRCUIT TIE-INS TO NEW LOCATIONS IDENTIFIED ON THE
- 4. DISCONNECT EXISTING DEVICES AND CIRCUITS AS REQUIRED. MAINTAIN CONTINUITY OF ALL CIRCUITS BY THE APPROVED METHOD ON THE SHOP DRAWINGS.
- INSTALL NEW DEVICES TO NEW CEILING LOCATIONS AS INDICATED ON THE SHOP DRAWINGS. MAINTAIN IDENTICAL DEVICE PLACEMENT AS PREVIOUSLY REMOVED EXISTING DEVICES. COORDINATE ALL WORK WITH OTHER TRADES IN THE SAME AREA OF WORK, AND WITH ARCHITECTURAL DRAWINGS.
- UPON COMPLETION OF INSTALLATION WORK, THE CONTRACTOR SHALL COORDINATE AND PERFORM ALL NECESSARY TESTING AND INSPECTIONS WITH ALL OTHER TRADES AND THE AHJ AS NECESSARY FOR A SUCCESSFUL INSPECTION. RE-TESTING AND RE-INSPECTIONS DUE TO CONTRACTOR ERROR SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 7. SUBMIT ALL REQUIRED CLOSEOUT DOCUMENTATION FOR REVIEW AND RECORD.

- 25. CONTRACTOR SHALL MEET INSTALLATION CRITERIA FOR SEISMIC REQUIREMENTS IN PROJECT LOCATION.
- 26. WITH RESPECT TO CONSTRUCTION BASED ON THESE DRAWINGS. THE EC IS ULTIMATELY RESPONSIBLE FOR ALL INSTALLED MEANS AND METHODS MEETING ALL APPLICABLE CODES AND STANDARDS.
- 27. ALL SWITCHES AND CIRCUIT BREAKERS INSTALLED IN WET AND DAMP LOCATIONS SHALL MEET NEC 404.4.
- 28. IN OTHER THAN DWELLING OCCUPANCIES, ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED PER
- 29. UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS ARE BASED ON INVERSE TIME TYPE AND ALL FUSES ARE BASED ON DUAL ELEMENT TIME-DELAY TYPE.
- 30. EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES AND REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. DISCREPANCIES BETWEEN DOCUMENTS SHALL BE REPORTED BEFORE BIDS ARE DUE TO ALLOW FOR RESOLUTION AS REQUIRED.
- 31. THE EC SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY EFFECT HIS WORK. THE EC SHALL NOT BE ENTITLED TO CHANGE ORDER(S) DUE TO FAILURE TO COMPLY.
- 32. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIAL (AND METHODS WHEN SPECIFICALLY REQUESTED) BEING USED IN THE COURSE OF THE WORK. A MINIMUM OF SEVEN (7) COPIES AND/OR AS REQUEST BY OWNER SHALL BE SUBMITTED FOR REVIEW. PURCHASE OF OR INSTALLATION OF MATERIALS OR SYSTEM PARTS SHALL NOT PROCEED UNTIL REVIEWED SHOP DRAWINGS/CATALOG CUTS ARE RETURNED TO THE SUBMITTING CONTRACTOR. ACCESSORIES SCHEDULED SHALL BE PROVIDED BY THE UNIT MANUFACTURER OR, IF NOT A FACTORY STANDARD, BY THE CONTRACTOR.
- 33. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT AND FINAL LOCATIONS OF ALL CEILING MOUNTED DEVICES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, EXIT SIGNAGE, ETC. VERIFY IN FIELD.
- 34. COORDINATE WITH OTHER TRADES FOR ROUGH-IN SUPPORT AS REQUIRED.
- 35. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION TO THE AREAS INVOLVED OR OTHER PARTS OF THE BUILDING ARE KEPT TO A MINIMUM. CONTRACTOR SHALL GIVE OWNER A MINIMUM OF FIVE (5) WORKING DAYS NOTICE OF ANY AND ALL WORK THAT WILL INTERFERE WITH OWNER'S OPERATIONS SO A SCHEDULE SUITABLE TO THE OWNER CAN BE ARRANGED.
- 36. PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, BALANCED AND OPERATED TO DEMONSTRATE TO THE OWNER THAT THE INSTALLATION AND PERFORMANCE OF THE INSTALLED SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- 37. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A MINIMUM PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER PARTS OF THE BUILDING DAMAGED THEREBY, SHALL BE REPAIRED, REPLACED OR OTHERWISE REMEDIED WITHOUT EXPENSE TO THE OWNER. SUCH REPAIRS OR REPLACEMENTS SHALL BE MADE IN A TIMELY MANNER AND AT THE CONVENIENCE OF THE OWNER.
- 38. UPON COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) COMPLETE SETS OF MANUFACTURERS' OPERATING, MAINTENANCE AND PREVENTIVE MAINTENANCE INSTRUCTIONS (IN BOUND BOOK FORM) INCLUDING PARTS LIST, AND COMPLETE PROCUREMENT INFORMATION SPECIFYING EQUIPMENT NUMBERS AND DESCRIPTIONS. OPERATING STAFF PERSONNEL SHALL BE INSTRUCTED AS TO PROPER OPERATING AND SERVICE REQUIREMENTS OF THE SYSTEMS AND EQUIPMENT.
- 39. CONTRACTOR SHALL UPON COMPLETION OF THE WORK, SUBMIT A SET OF RECORD DRAWINGS SHOWING ALL BURIED OR CONCEALED EQUIPMENT OF PARTS OF THE WORK.
- 40. EACH TRADE CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED FIRE STOP SEALANT, TOTALLY ENCLOSING ALL PENETRATIONS TROUGH CEILINGS, WALLS, ROOFS AND FLOORS.
- 41. EACH TRADE CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF HIS/HER WORK WITH THE PROJECT ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
- 42. UPON COMPLETION OF ALL WORK, THOROUGHLY CLEAN ALL SYSTEMS OF OBSTRUCTIONS, DEBRIS, SCALE, DUST, DIRT, ETC. AND PLACE SYSTEMS IN OPERATION.
- 43. THE INTENT OF THE PROJECT IS TO INSTALL NEW EQUIPMENT AS SHOWN ON THE DRAWING AND TO FEED THE NEW EQUIPMENT FROM THE EXISTING ELECTRIC DISTRIBUTION SYSTEM. ALL OTHER ELECTRICAL ITEMS IN THE BUILDING ARE EXISTING. EC IS TO CONNECT EQUIPMENT AS SHOWN, AND TAKE LOAD READINGS TO VERIFY THAT THE EXISTING ELECTRIC DISTRIBUTION SYSTEM CAN SUPPORT ADDITIONAL LOAD. IF NOT, MAKE ADJUSTMENTS AS REQUIRED.
- 44. THE CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC.
- 45. ALL EXPOSED CONDUIT SHALL BE PAINTED (1 COAT PRIMER, 2 COATS FINISH) TO MATCH ADJACENT AREA
- 46. CONTRACTOR SHALL PATCH AND REPAIR ALL OPENINGS LEFT IN EXISTING WALL AND/OR CEILING SURFACES BY THE REMOVAL OF EXISTING SURFACE MOUNTED AND/OR SEMI-RECESSED LIGHTING, EQUIPMENT, DEVICES, BOXES OR RACEWAYS. PAINT AND/OR FINISH REQUIRED AREAS TO MATCH ADJACENT SURFACES.
- 47. CONTRACTOR SHALL REMOVE WIRING DEVICES WHERE SHOWN ON PLAN AND ABANDON BOXES IF THEY ARE IN EXISTING WALLS TO REMAIN. PROVIDE BLANK COVERS ON ABANDONED BOXES.
- 48. CONTRACTOR SHALL REMOVE ABANDONED OUTLET BOXES, RACEWAYS OR CONDUIT THAT WOULD BE EXPOSED IN FINISHED AREAS, AND REPAIR DISTURBED SURFACES TO MATCH ADJACENT AREAS.
- 49. MAINTAIN CONTINUITY OF EXISTING FIRE ALARM SYSTEM. PROVIDE TEMPORARY SERVICE AS NECESSARY. COORDINATE SHUTDOWNS WITH OWNER. RELOCATE, REROUTE, REMOVE OR ABANDON EXISTING WORK THAT INTERFERES WITH THE NEW ARRANGEMENT. REMOVE EXISTING ITEMS AS REQUIRED TO ACCOMMODATE NEW

GENERAL SYMBOLS LEGEND DUPLEX RECEPTACLE MOUNTED 18" AFF; NEMA 5-20R, 20A, 125V, 2P DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N. GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N. GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE MOUNTED UNDERNEATH COUNTERTOP; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N. JUNCTION BOX ELECTRICAL PANELBOARD HOMERUN TO PANELBOARD 20A, 120/277V, RATED SINGLE TOGGLE LIGHT SWITCH 20A, 120/277V, MOTOR RATED SINGLE TOGGLE SWITCH 24V RATED LIGHT SWITCH OCCUPANCY SENSOR DUAL TECHNOLOGY SENSING. BASIS OF DESIGN: HUBBELL CONTROL: LHMTS1-24V-WH

CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR (XX:## DENOTES PANEL AND BEAKER INFORMATION) BASIS OF DESIGN: HUBBELL OMNIDT 2000 (360°, 22' RADIUS)

WALL MOUNTED OCCUPANCY SENSOR

SPEAKER

FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR

FIRE ALARM SYSTEM CEILING MOUNTED AUDIBLE / VISUAL NOTIFICATION DEVICE, # INDICATES CANDELA, W INDICATES SPEAKER WATTAGE

LINE TYPES



ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY LINE WEIGHT INDICATES NEW WORK TO BE FURNISHED AND INSTALLED.



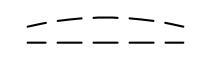
ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS OTHERWISE INDICATED.



ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY LINE WEIGHT REPRESENTS EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED, UNLESS INDICATED TO BE REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER.



ELECTRICAL CONDUCTOR DESIGNATED BY SOLID HEAVY LINE WEIGHT INDICATES NEW WIRING FOR CIRCUITS OPERATING AT 120V



ELECTRICAL CONDUCTOR DESIGNATED BY DASHED HEAVY LINE WEIGHT INDICATES NEW WIRING FOR CIRCUITS OPERATING AT LESS

APPLICABLE CODES

- NATIONAL ELECTRICAL CODE 2017 (NFPA 70)
- IBC 2018 CHAPTER 27, CHAPTER 9
- PA UCC
- INTERNATIONAL ENERGY CONSERVATION CODE 2018
- IEEE STD 142-1991 RECOMMENDED PRACTICE FOR GROUNDING OF INDUSTRIAL AND COMMERCIAL POWER
- NATIONAL FIRE ALARM AND SIGNALING CODE 2016 (NFPA 72)

ABBREVIATIONS

AMPERES ALTERNATING CURRENT AMPERES, FRAME ABOVE FINISHED FLOOR AFF AMPERES, INTERRUPTING CAPACITY AMPERES, INTERRUPTING RATING AIR AMPERES, RATING PLUG AMPERES, TRIP AUTOMATIC TRANSFER SWITCH ATS AMERICAN WIRE GAUGE AWG **BASEMENT** BSMT CONDUIT C, CNDT **CEILING MOUNTED** CLG CURRENT TRANSFORMER **EXISTING TO REMAIN** ELECTRICAL CONTRACTOR **EMERGENCY** EM **ELECTRICAL METALLIC TUBING** EMT FLEXIBLE METAL CONDUIT FMC GROUND GROUND FAULT CIRCUIT INTERRUPTER GFCI OR GFI GALVANIZED RIGID STEEL GRS HERTZ KΑ KILO AMPERES KILO CIRCULAR MILS KCMIL KILO VOLT AMPERES KVA KILO WATTS KW LIQUID-TIGHT FLEXIBLE METAL CONDUIT LFMC MAIN CIRCUIT BREAKER MCB MAIN LUGS ONLY MLO MAXIMUM OVERCURRENT PROTECTION MOCP MAXIMUM OVERCURRENT PROTECTIVE DEVICE MOPD MTR NATIONAL ELECTRIC CODE NEC NORMALLY OPEN N.O. PH, Ø POTENTIAL TRANSFORMER RIGID METAL CONDUIT RMC **ROOT-MEAN-SQUARE** RMS RIGID NON-METALLIC CONDUIT RNC SHORT CIRCUIT CURRENT RATING SCCR

SURGE PROTECTION DEVICE

UNLESS OTHERWISE NOTED

TIME-DELAY DUAL ELEMENT (FUSES)

UNINTERRUPTIBLE POWER SUPPLY

SYMMETRICAL

TYPICAL

VOLTS

TELEPHONE

TRANSFORMER

IMPEDANCE

TO BE DETERMINED

SPD

SYM

TBD

TDDE

UON

UPS

XFMR

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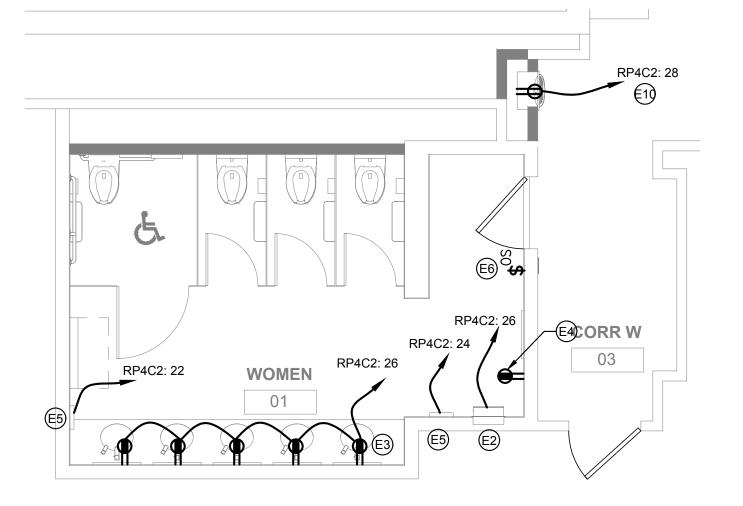
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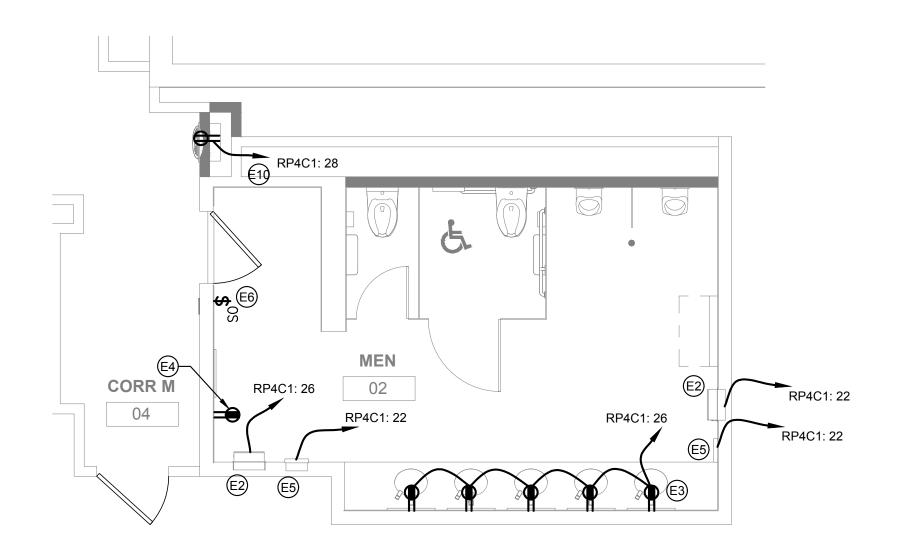
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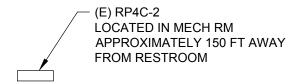
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GENERAL NOTES. **ABBREVIATIONS** & LEGEND

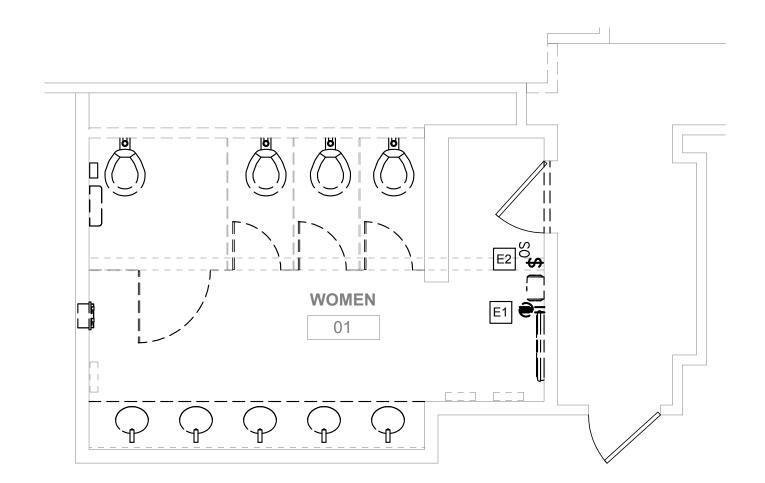
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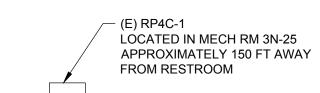




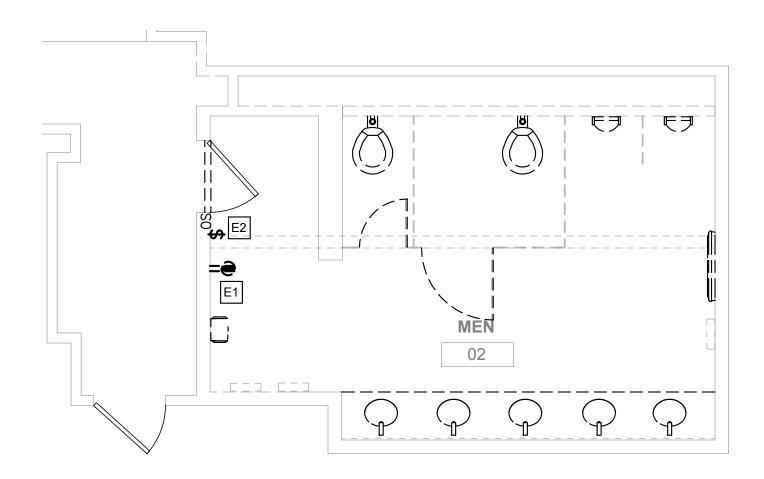


DEMOLITION GENERAL NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.



4 PLAN - MEN'S RESTROOM E101 | SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S RESTROOM E101 SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES

- EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE E4.
- EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- (NOT USED)

NEW WORK GENERAL NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN-2 UNLESS OTHERWISE NOTED.
- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEY NOTES

- EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS. PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- (E5) EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 1/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE
- CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM
- (E8) EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701.

WOMEN'S RESTROOM

(E9) NEW RECEPTACLE AT EXISTING LOCATION.

Race St.

Arch St.

KEYPLAN - 300 LEVEL

EC SHALL FURNISH AND INSTALL 20A/1P GFCI CIRCUIT BREAKER IN PANEL FOR WATER BOTTLE FILLER STATION. PROVIDE POWER CONNECTION TO WATER BOTTLE FILLER STATION OUTLET BOX. COORDINATE WITH PLUMBING CONTRACTOR FOR INSTALLATION MANUAL FOR EXACT LOCATION IN WATER BOTTLE FILLER STATION FRAMING. PROVIDE LABEL WITH BRANCH CIRCUIT INFORMATION (PANEL: CIRCUIT NUMBER) USING SELF-ADHESIVE TAPE IN ELECTRONIC LABELER



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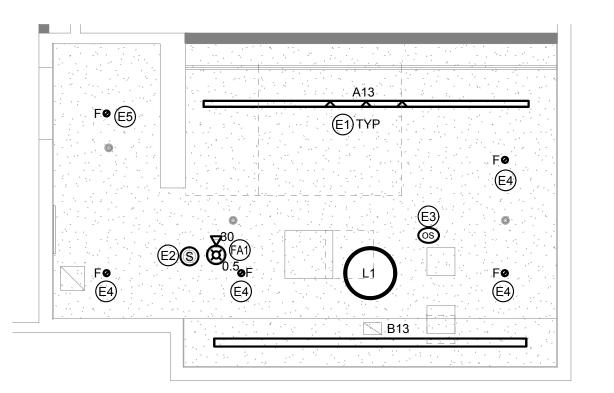
DEMOLITION & NEW FLOOR PLANS

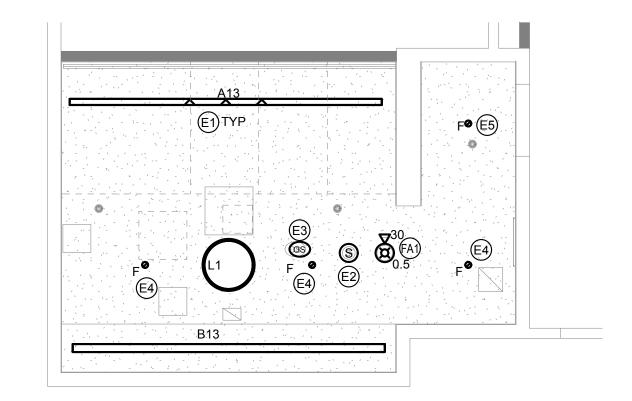
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1/4" = 1'-0"

─ MEN'S RESTROOM

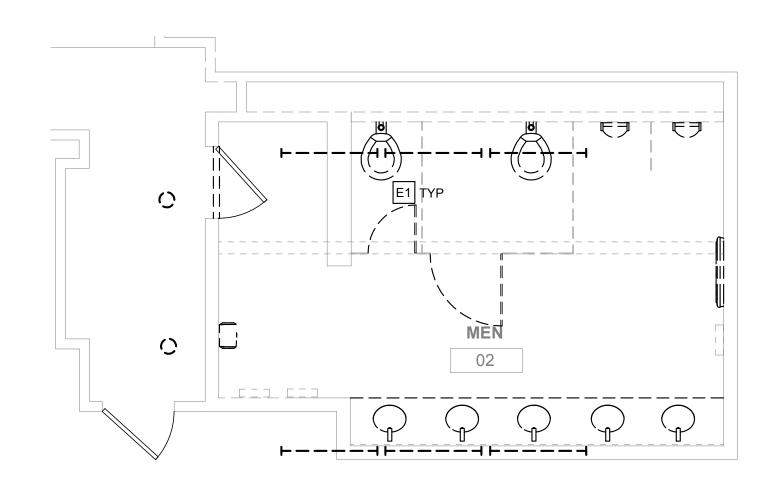
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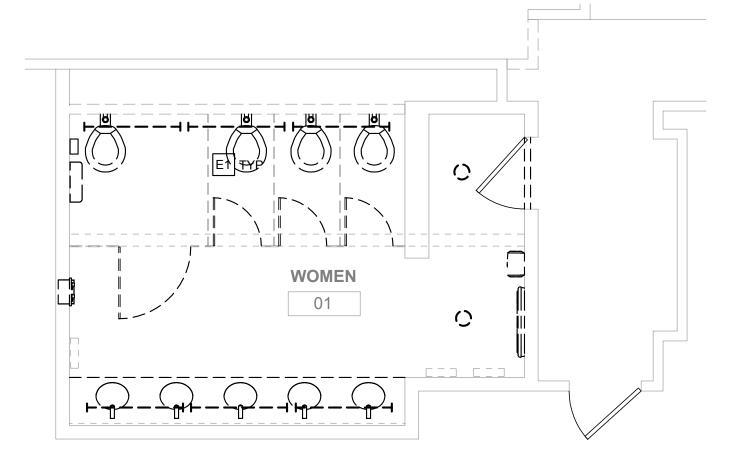




4 REFLECTED CEILING PLAN - MEN'S RESTROOM E601 | SCALE: 1/4" = 1'-0"







DEMO RCP - MEN'S RESTROOM E601 SCALE: 1/4" = 1'-0"

1 DEMO RCP - WOMEN'S RESTROOM E601 SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

DEMOLITION KEY NOTES

- EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE
- EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT
- WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

NEW WORK GENERAL NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
 - BASIS OF DESIGN: CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
 - WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

NEW WORK KEY NOTES

- (E1) EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 1/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- (E4) LIGHTING FIXTURE(S) TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 2/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL PROVIDE AND INSTALL IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED. NEW FIRE ALARM DEVICES SHALL BE IDENTICAL AND/OR BE COMPATIBLE WITH EXISTING FIRE ALARM DEVICES THROUGHOUT THE FACILITY.

WOMEN'S RESTROOM —

KEYPLAN - 300 LEVEL

- MEN'S RESTROOM



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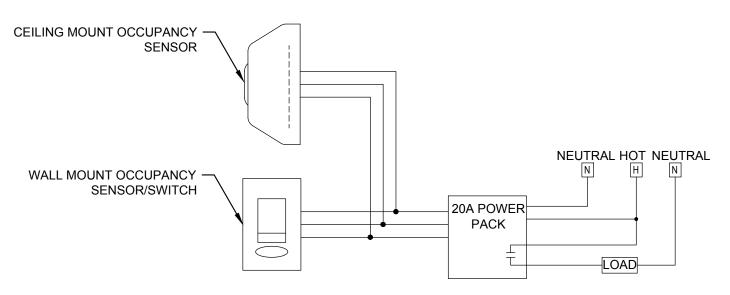
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REFLECTED **CEILING PLANS**

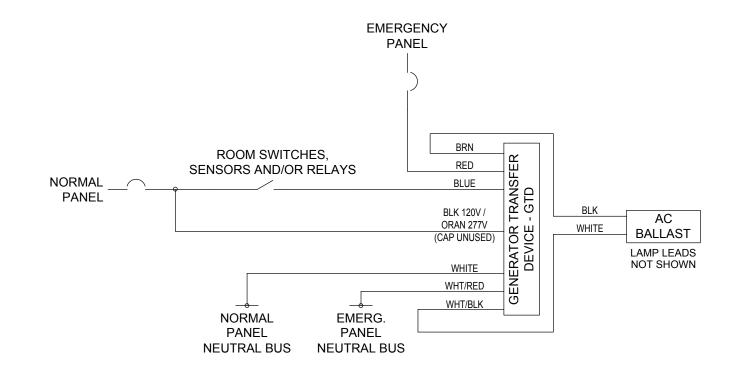
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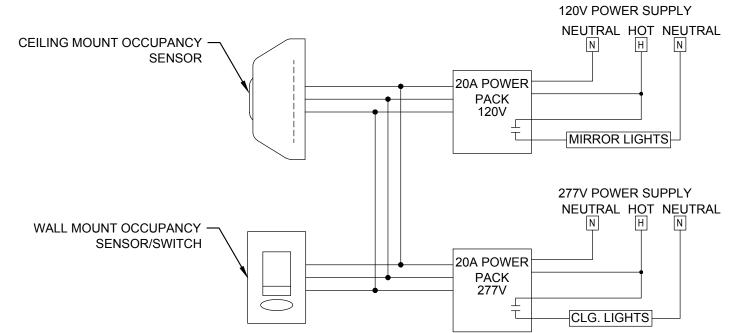


- 1. LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM IS BASED ON HUBBELL. CONTRACTOR SHALL MAKE ANY FIELD WIRING MODIFICATIONS NECESSARY TO ACHIEVE
- 2. REFER TO E001 FOR OCCUPANCY SENSOR DEVICE BASIS OF DESIGN.

1 TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM **NOT TO SCALE**

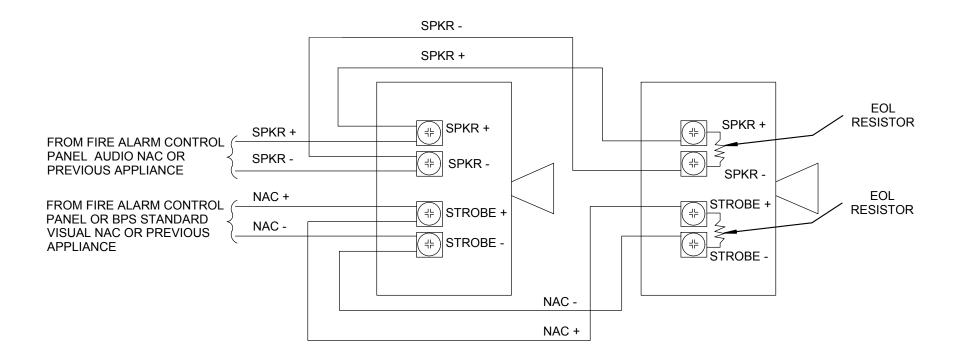


- 1. EMERGENCY LIGHTING TRANSFER DEVICE WIRING IS BASED ON BODINE GTD EMERGENCY LIGHTING CONTROL DEVICE. CONTRACTOR SHALL MAKE ANY FIELD WIRING MODIFICATIONS NECESSARY TO ACHIEVE DESIGN INTENT.
- EMERGENCY LIGHTING TRANSFER DEVICE WIRING DIAGRAM E701 NOT TO SCALE



- 1. LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM IS BASED ON HUBBELL. CONTRACTOR SHALL MAKE ANY FIELD WIRING MODIFICATIONS NECESSARY TO ACHIEVE DESIGN INTENT.
- 2. REFER TO E001 FOR OCCUPANCY SENSOR DEVICE BASIS OF DESIGN.

TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM WITH EDGE LIT MIRRORS E701 NOT TO SCALE



WIRING NOTES:

- 1. NOTIFICATION APPLIANCES ARE RATED PER INDIVIDUAL NAMEPLATE LABEL.
- 2. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
- 3. DO NOT LOOP WIRES UNDER TERMINALS.
- 4. ALL NAC WIRING CONNECTIONS ARE SUPERVISED AND POWER-LIMITED.
- 5. SEE INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.

STROBE INFORMATION:

- RATED VOLTAGE RANGE: UL LISTED: 16VDC TO 33 VDC
- PER UL 1971. 2. FLASH RATE: 1Hz (TYPICAL), TO BE CONFIRMED WITH
- MANUFACTURER'S INFORMATION. SYCHRONIZED MODE NAC LOADING: MAXIMUM OF SYCHRONIZED STROBES PER NAC CIRCUIT TO BE CONFIRMED WITH MANUFACTURER'S INFORMATION.
- 4 FIRE ALARM NOTIFICATION APPLIANCE WIRING DIAGRAM E701 NOT TO SCALE



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STRUCTURAL ENGINEERS:

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REVISIONS:

Description

PENNSYLVANIA CONVENTION CENTER

ELECTRICAL DETAILS AND DIAGRAMS

Project number	CW1615.06
Date	03/15/2023
Drawn by	AS/MM
Checked by	RR
	-

E701

	LUI	MINAIRE S	SCHEDULE				
FIXTURE TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	TYPE	TOTAL WATTS	VOLTS
A13	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 13 FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 13 CR-SF-U-OL1-1-0-W	LED	78	UNV
B13	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 13FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-13 FL-U-0L1-1-0-S	LED	59.8	UNV
F	LED 3IN DIA RECESSED DOWNLIGHT 50 DEG BEAM	RECESSED	LEDRA BRANDS	NU3-RD-XTM19-10LM-835K-83-HE60-277-DIM 10-NC-WH-WH	LED	12.4	277
L1	LED SURFACE-MT 24 IN DIA DRUM, 7% UPLIGHT, REGRESSED SATINE LENS, OUTPUT REDUCED 25%	SURFACE	PINNACLE ARCHITECTURAL LIGHTING	F24U-AR-835 - S-U -OL1-1-0-BL	LED	39.4	UNV

NOTE

- 1. LUMINAIRE SCHEDULE INDICATES BASIS OF DESIGN FIXTURES AND MANUFACTURERS. FOR PRICING CONTACT
- DEIRDRE MCCLINTOCK AT DIVERSIFIED LIGHTING: (215) 442-0700, DMCCLINTOCK@DLATG.COM.
- 2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3. SEE ARCHITECTURAL DRAWINGS FOR LAYOUT AND CUSTOM FIXTURE CONFIGURATIONS.
- 4. CONTRACTOR TO VERIFY LENGTH IN THE FIELD AND CEILING CONDITIONS.
- 5. COORDINATE FINISHES SELECTIONS WITH ARCHITECT.
- 6. NOT ALL LIGHT FIXTURES MAY BE INCLUDED IN PROJECT. REFER TO PLANS FOR FIXTURE TYPES AND QUANTITIES.

					PΑ	NEL	SCH	HEDU	ILE					
	RP4C-1 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	100/	4	MAIN: 100A MCB	
	NEMA 1	NEUTRAL:	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GRO	DUNE)	L	OCATION: MECH RM 3N-25 NEAR MEN'S REST ROOM		
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V	/A / PHAS	SE	VA	SIZE	POLES	WIRE	DESCRIPTION	TillOdio
S			M	BKF		Α	В	С		BKR	_M			[
1					0	0			0	20	1	(E)	EXISTING LOAD	
3	MAIN	(E)	3	100	0		0		0	20	1	(E)	EXISTING LOAD	
5					0			0	0	20	1	(E)	EXISTING LOAD	
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	1
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	1
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	1
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
21	EXISTING LOAD	(E)	1	20	0		0		0	-	-	-	SPACE	2
23	SPACE	-	-	-	0			0	0	-	-	-	SPACE	2
25	SPACE	-	-	-	0	0			0	-	-	-	SPACE	2
	SPACE	-	-	-	0		0		0	-	-	-	SPACE	2
29	SPACE	-	-	-	0			0	0	-	-	-	SPACE	
	NOTES:						TOTALS							
						0	0	0						

					PΑ	NEL	SCH	HEDU	JLE					
	RP4C-2 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	100	4	MAIN: 70A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	DUND BU	S - ISOLA	TED GRO	DUNE)	L	OCATION: MECH RM NEAR WOMEN'S REST ROOM	1
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	\	/A / PHAS	SE	S BKR SIZE POLES	WIRE	DESCRIPTION	CIRCUIT		
SR			8	BKR		Α	В	С		HX.	PO			SR
1					0	0			0	20	1	(E)	EXISTING LOAD	2
3	MAIN	(E)	3	70	0		0		0	20	1	(E)	EXISTING LOAD	4
5					0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	8
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	10
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING LOAD	(E)	1	20	0	0			0	-	-	-	SPACE	20
21	EXISTING LOAD	(E)	1	20	0		0		0	-	-	-	SPACE	22
23	EXISTING LOAD	(E)	1	20	0			0	0	-	-	-	SPACE	24
25	SPACE	-	-	-	0	0			0	-	-	-	SPACE	26
27	SPACE	-	-	-	0		0		0	-	-	-	SPACE	28
29	SPACE	-	-	-	0			0	0	-	-	-	SPACE	30
	NOTES:						TOTALS							
						0	0	0						

					PA	NEL	SCH	IEDL	JLE						
	RP4C-1 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE		
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	100	A	MAIN: 100A MCB		1
	NEMA 1	NEUTRAL:	10	00%	COP	PER GRO	DUND BUS	S - ISOLA	TED GRO	DUNE)	L	OCATION: MECH RM 3N-25 NEAR MEN'S REST ROOM		
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	\	/A / PHAS	E	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT	
SIR	DESCRIPTION	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PO	BKR	"	Α	В	С	"	BKR	В	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BEGOTTI TION	SIR	
1					0	0			0	20	1	(E)	EXISTING LOAD	2	1
3	MAIN	(E)	3	100	0		0		0	20	1	(E)	EXISTING LOAD	4	1
5	1				0			0	0	20	1	(E)	EXISTING LOAD	6	1
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	8	1
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	10	1
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12	1
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	14	1
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16	1
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18	1
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20	1
21	EXISTING LOAD	(E)	1	20	0		1500		1500	20	1	10	MEN'S HAND DRYER	22	1
23	SPACE	-	-	-	0			1500	1500	20	1	10	MEN'S HAND DRYER	24	1
25	SPACE	-	-	-	0	800			800	20	1	12	WOMEN'S TOWEL DISPENSER & SOAP POWER	26]
27	SPACE	-	-	-	0		370		370	20	1	10	WATER BOTTLE FILLER STATION	28	\neg
29	SPACE	-	-	-	0			0	0	-	-	-	SPACE	30	↓
	NOTES:						TOTALS								
						800	1870	1500							
							4170 VA						11.57 AMPS		╛

					PΑ	NEL	SCH	IEDU	ILE					
	RP4C-2 - PROPOSE PANEL: CONDITIONS	D										М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	100	4	MAIN: 70A MCB	
							OUND BUS	S - ISOLA	TED GRO	DUNE)	L	OCATION: MECH RM NEAR WOMEN'S REST ROOM	
CIRCUIT	DESCRIPTION WIRE SIZE VA		\/Δ	\	/A / PHAS	E	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT		
CIR	DEGGINI HON	WIILE	<u>B</u>	BKR	٧٨	Α	В	С	٧٨	BKR	<u>B</u>	VVIIXE	DEGGMI HON	CIR
1					0	0			0	20	1	(E)	EXISTING LOAD	2
3	MAIN	(E)	3	70	0		0		0	20	1	(E)	EXISTING LOAD	4
5					0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	8
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	10
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING LOAD	(E)	1	20	0	0			0	-	-	-	SPACE	20
21	EXISTING LOAD	(E)	1	20	0		1500		1500	20	1	10	WOMEN'S HAND DRYER	22
23	EXISTING LOAD	(E)	1	20	0			1500	1500	20	1	10	WOMEN'S HAND DRYER	24
25	SPACE	-	-	-	0	800			800	20	1	12	WOMEN'S TOWEL DISPENSER & SOAP POWER	26
27	SPACE	-	-	-	0		370		370	20	1	10	WATER BOTTLE FILLER STATION	28
29	SPACE	-	-	-	0		TOTALS	0	0	-	-	-	SPACE	30

PANEL SCHEDULE GENERAL NOTES:

- 1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. ALL WIRING AND CONDUIT FOR NEW OR EXTENDING EXISTING CIRCUITS SHALL BE #12 CU, THHN/THWN-2 IN 3/4" CONDUIT MINIMUM. MATCH EXISTING WIRE AND CONDUIT SIZES WHERE THEY ARE GREATER.
- 3. ALL NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MANUFACTURER TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD.
- 4. ELECTRICAL CONTRACTOR TO TAKE LOAD READINGS OF EXISTING PANEL VIA RECORDING AMMETER TO VERIFY NEC COMPLIANT LOADING PER 220.87 AND VERIFY IF THE EXISTING PANEL IS CAPABLE OF NEW LOAD. REPORT RESULTS TO ENGINEER PRIOR TO PERFORMING ANY WORK.

NEW WORK KEY NOTES

E1 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL GFCI CIRCUIT BREAKER FOR WATER BOTTLE FILLER STATION.

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REVISIONS:

No. Description Date

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2

PENNSYLVANIA ONVENTION CENTER

ELECTRICAL SCHEDULES

PCCA RESTROOM RENOVATIONS OVERLOOK RESTROOMS

Project number CW1615.06

Date 03/15/2023

Drawn by AS/MM

Checked by RR

E801

Scale NOT TO SCALE