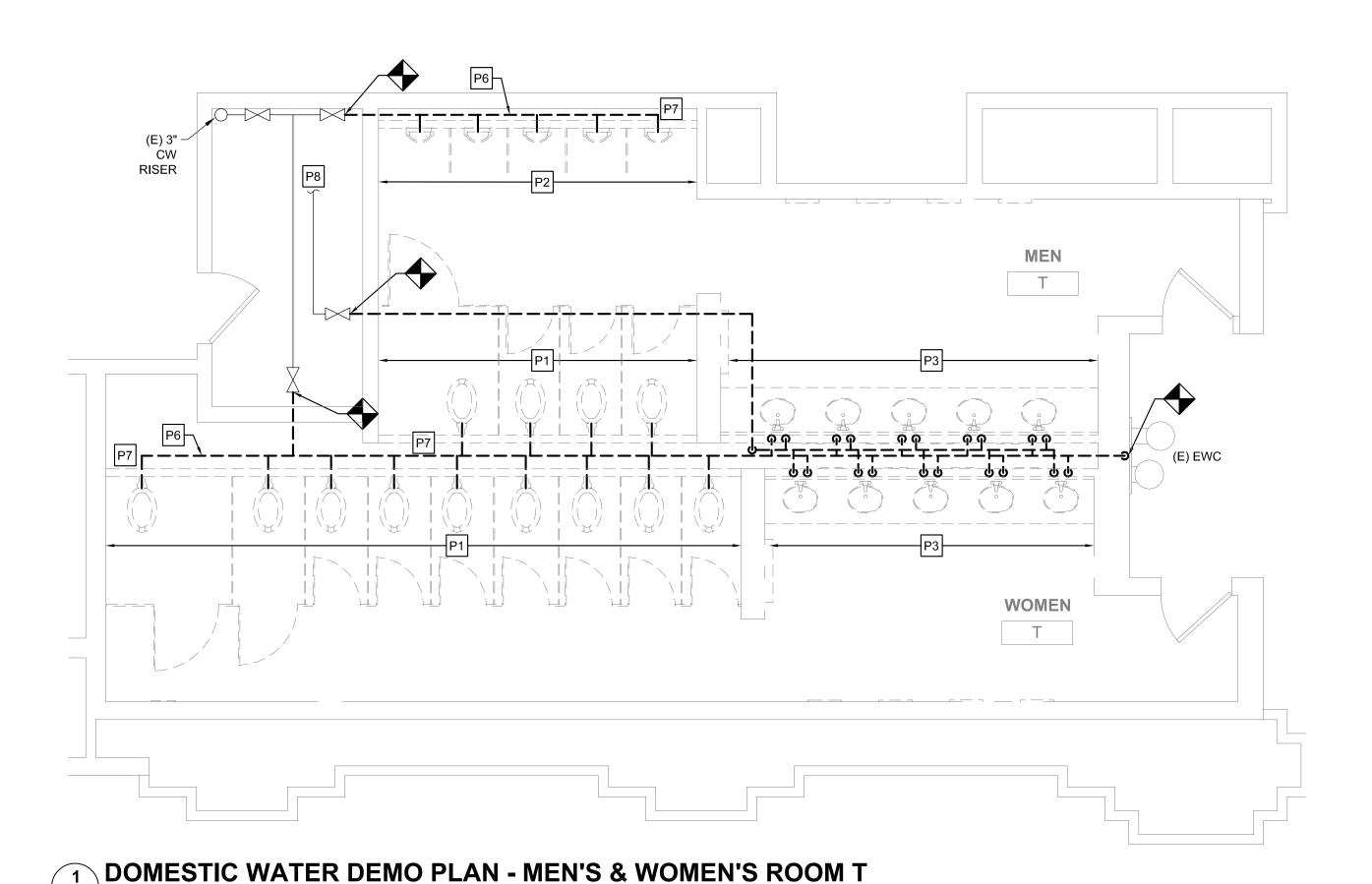


DOMESTIC WATER FLOOR PLAN - MEN'S & WOMEN'S ROOM T

M116A SCALE: 1/4" = 1'-0"

M116A SCALE: 1/4" = 1'-0"



GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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:

EACH WATER CLOSET (WC) FIXTURE.

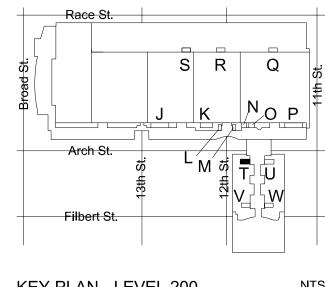
- 1. CONTRACTOR TO DEMOLISH ALL EXISTING CW & HW WATER SUPPLY PIPE EXPOSED BY INTERIOR DEMOLITION WITHIN THE TOILET ROOM. CUT EXISTING SUPPLY PIPE AT LIMIT OF TOILET ROOM PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- 2. CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING 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
- 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

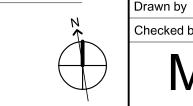
- (P1) PROVIDE NEW WATER CLOSET AND ALL ACCESSORIES AS NOTED ON FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO. FLUSHOMETER, CARRIER, SHUT OFF VALVE, SEAT, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P2) PROVIDE NEW URINAL AND 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.
- (P3) 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.
- (P4) PROVIDE NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- (P6) PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

DEMOLITION KEYED NOTES

- 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 REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - LEVEL 200





MEP ENGINEERS:



Arora Engineers, Inc. (610) 459-7900 | F (610) 459-7950 | aroraengineers.

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

ER

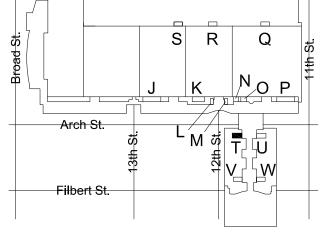
NA

PENNSYLV ONVENTION

Project number

CONNECTIONS.

P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF



NTS

Checked by

DEMOLITION &

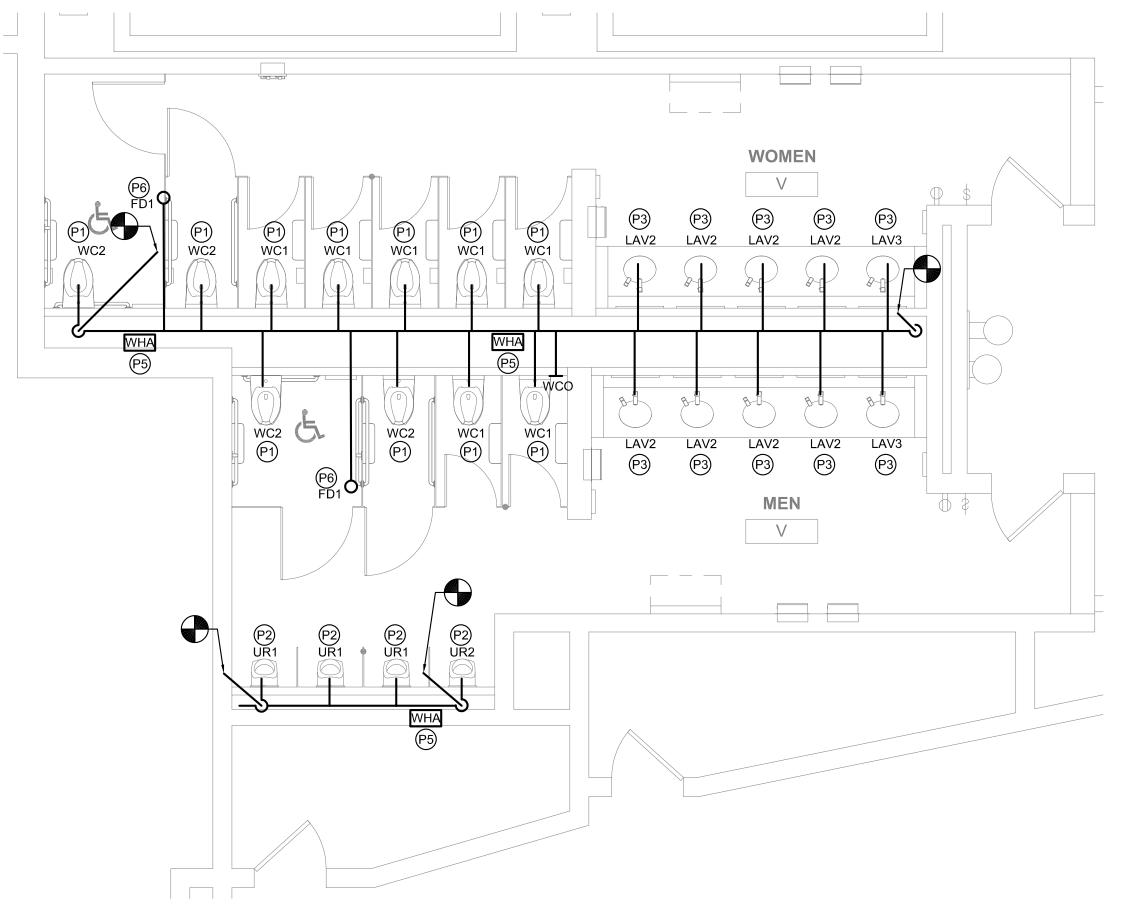
NEW FLOOR

PLANS - ROOM T

(SEMINAR)

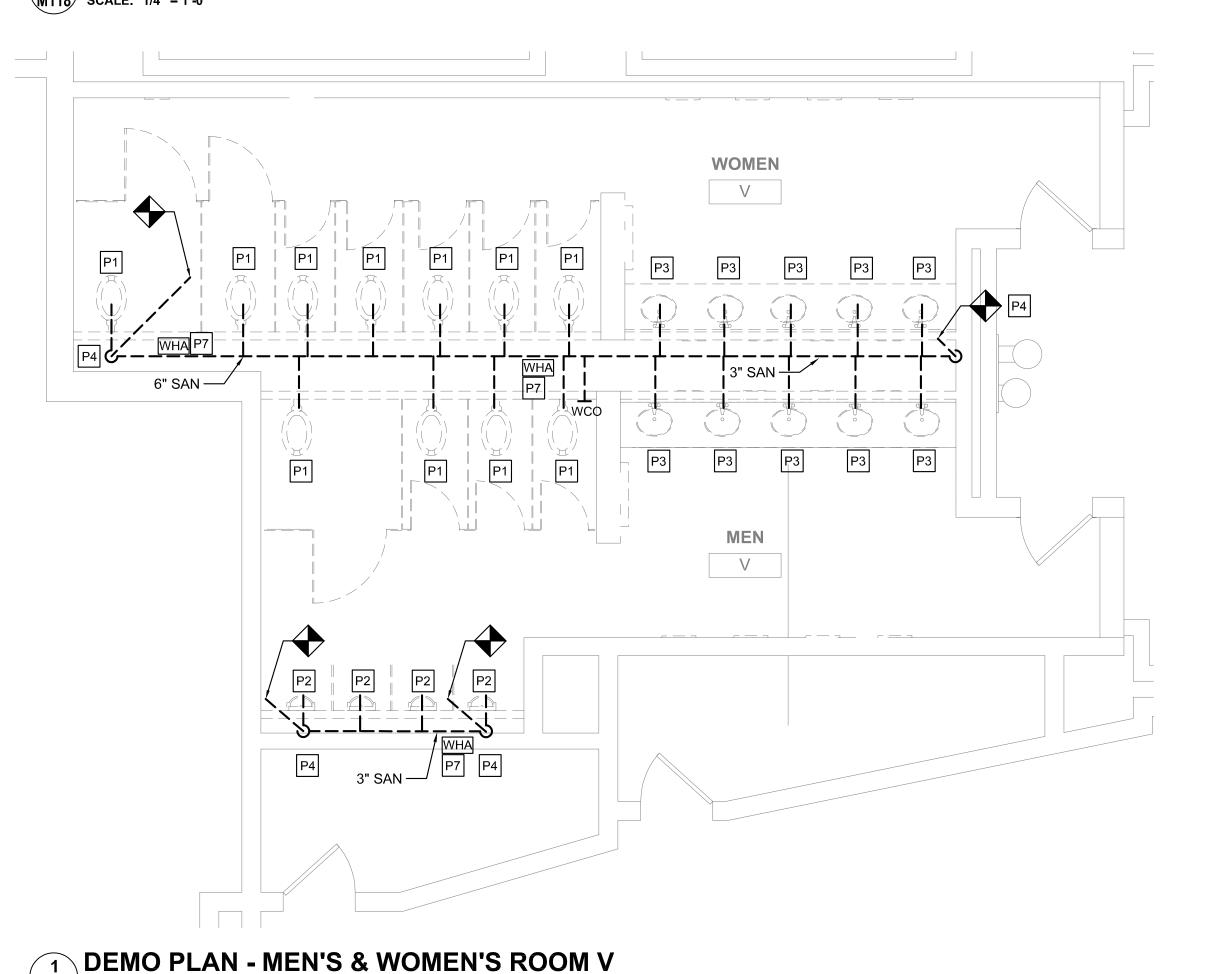
November 25, 2019

CW1615



FLOOR PLAN - MEN'S & WOMEN'S ROOM V M118 SCALE: 1/4" = 1'-0"

M118 SCALE: 1/4" = 1'-0"



GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.

PLUMBING FIXTURE QUANTITIES - V									
	EXIS	TING FIX	TURES	NE	W FIXTL	NET CHANGE			
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU	
WATER CLOSET	11	8	88	11	8	88	0	0	
URINAL	4	4	16	4	4	16	0	0	
LAVATORY	10	2	20	10	2	20	0	0	
FLOOR DRAIN	0	0	0	2	3	6	+2	+6	
		TOTAL	124		TOTAL	130	NET CHANGE	+6	

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 PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE.
 RECONNECT TO EXISTING INCOMING CW & HW SUPPLY PIPE
 CAPPED DURING DEMOLITION.
- 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.

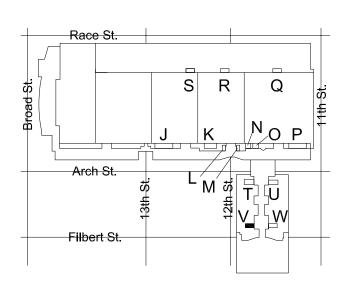
NEW WORK KEYED NOTES

- P1 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 NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

DEMOLITION KEYED NOTES

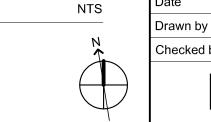
FIXTURE LOCATION AND CONNECTIONS.

- P1 REMOVE EXISTING WATER CLOSET, FLUSH VALVE, CARRIER, PIPING AND ACCESSORIES. REFER TO NEW WORK PLAN FOR NEW
- 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.
- REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF DEMOLITION.
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - LEVEL 200

0 2' 4' 8'



: CONVERSE
: WINKLER
: ARCHITECTURE
331 MONTGOMERY AVE
BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
1 Wilmington-West Chester Pike | Chadds Ford, PA 1931
(610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:
CSA GROUP
1341 NORTH DELAWARE AVENUE,
SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

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

PHILADELPHIA, PA 19125



No. Description Date

REVISIONS:

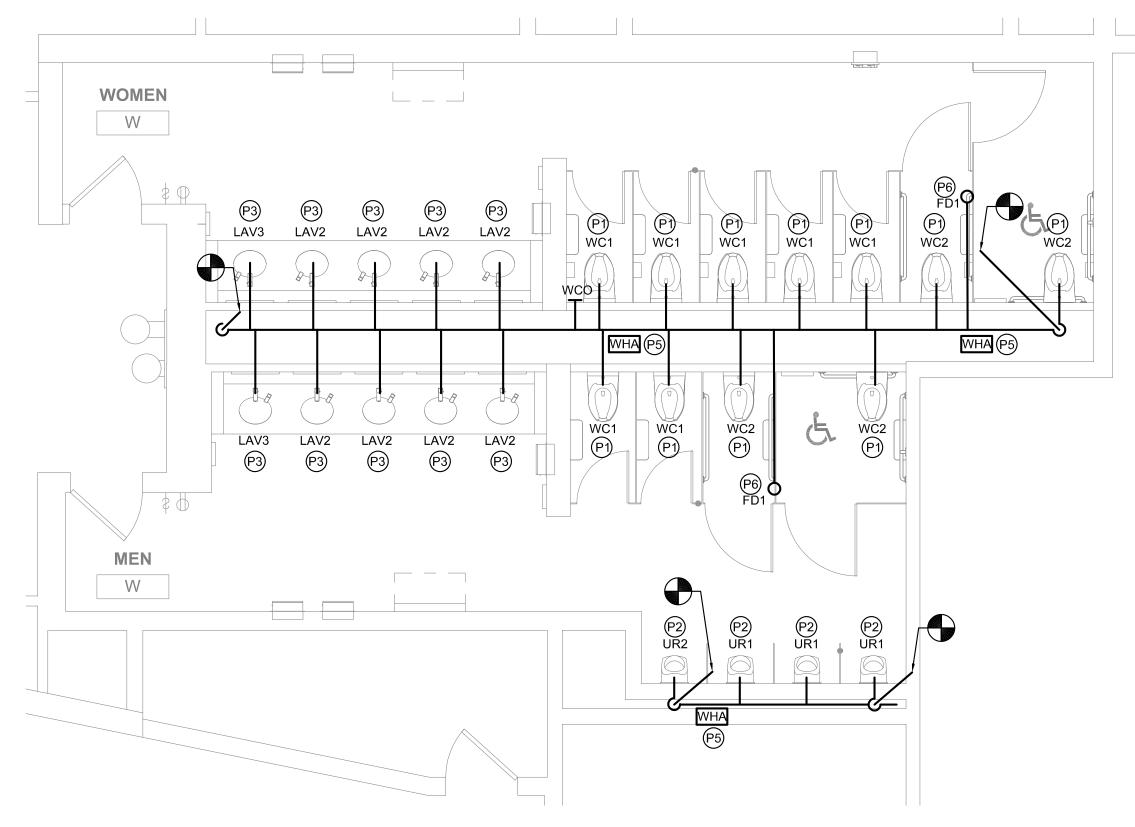
PENNSYLVANIA
NNVENTION CENTER
SESTROOM RENOVATIONS

CON LANGE RES. 101 ARC NEW FLOOR

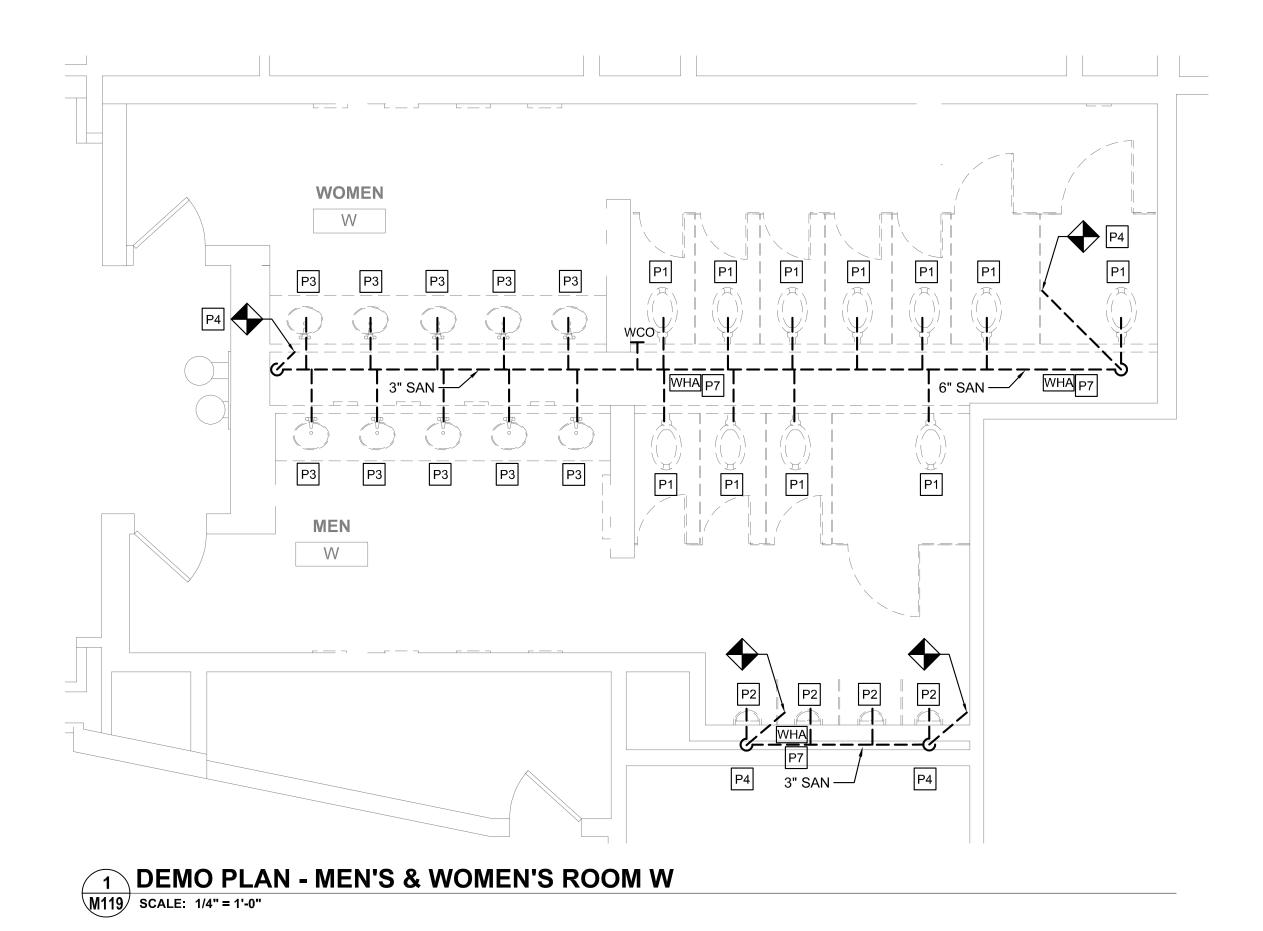
Project number CW1615
Date November 25, 2019

M118

le 1/4" = 1'-0"



2 FLOOR PLAN - MEN'S & WOMEN'S ROOM W
M119 SCALE: 1/4" = 1'-0"



GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.

Р	LUMB	ING FI	XTURE	QUAN	NTITIE	S - W		
	EXIST	TING FIX	TURES	NE	W FIXTL	NET CHANGE		
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU
WATER CLOSET	11	8	88	11	8	88	0	0
URINAL	4	4	16	4	4	16	0	0
LAVATORY	10	2	20	10	2	20	0	0
FLOOR DRAIN	0	0	0	2	3	6	+2	+6
	130	NET CHANGE	+6					

DOMESTIC WATER NEW WORK:

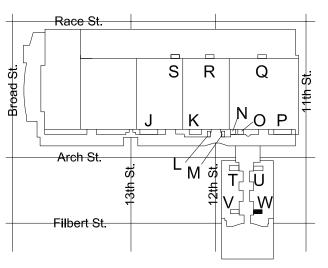
- CONTRACTOR TO DEMOLISH ALL EXISTING CW & HW WATER SUPPLY PIPE EXPOSED BY INTERIOR DEMOLITION WITHIN THE TOILET ROOM. CUT EXISTING SUPPLY PIPE AT LIMIT OF TOILET ROOM PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING CW & HW SUPPLY PIPE CAPPED DURING DEMOLITION.
- 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.
- (P3) 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 NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

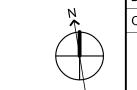
DEMOLITION KEYED NOTES

- 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.
- REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF DEMOLITION.
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - LEVEL 200

0 2' 4' 8'



NTS

: CONVERSE : WINKLER : ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:
CSA GROUP
1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

SUITE 507

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



No. Description Date

REVISIONS:

PENNSYLVANIA
ONVENTION CENTER
RESTROOM RENOVATIONS

DEMOLITION &
NEW FLOOR
PLANS - ROOM W
(SEMINAR)

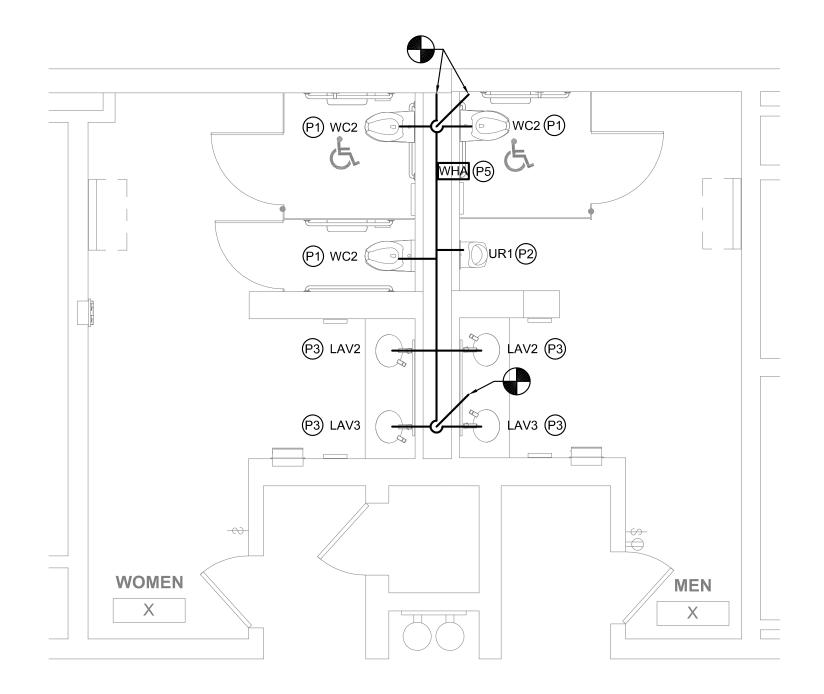
Project number CW1615

Date November 25, 2019

Drawn by DG

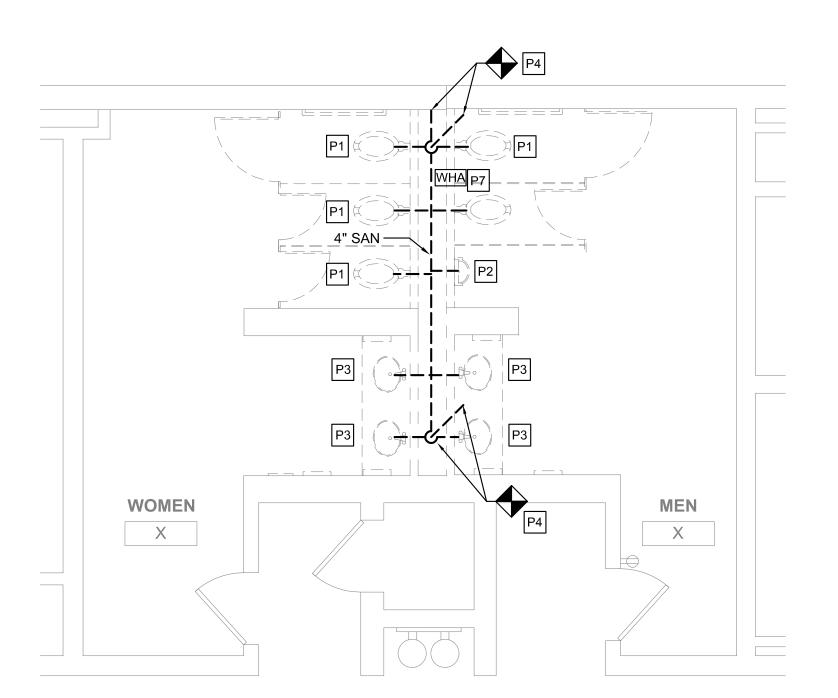
Checked by DM

M119



7 FLOOR PLAN - MEN'S & WOMEN'S ROOM X

M120 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM X

M120 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.

PLUMBING FIXTURE QUANTITIES - X											
	EXIST	TING FIX	TURES	NE'	W FIXTL	NET CHANGE					
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU			
WATER CLOSET	5	8	40	3	8	24	- 2	-16			
URINAL	1	4	4	1	4	4	0	0			
LAVATORY	4	2	8	4	2	8	0	0			
		TOTAL	52		TOTAL	36	NET CHANGE	-16			

DOMESTIC WATER NEW WORK:

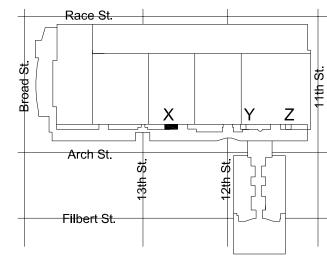
- CONTRACTOR TO DEMOLISH ALL EXISTING CW & HW WATER SUPPLY PIPE EXPOSED BY INTERIOR DEMOLITION WITHIN THE TOILET ROOM. CUT EXISTING SUPPLY PIPE AT LIMIT OF TOILET ROOM PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING CW & 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.
- 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.
- P2 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 NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

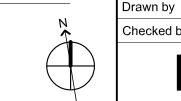
DEMOLITION KEYED NOTES

- 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 REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF DEMOLITION.
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - LEVEL 300

0 2' 4' 8'



NTS

: CONVERSE : WINKLER : ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
1 Wilmington-West Chester Pike | Chadds Ford, PA 1931
(610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:
CSA GROUP
1341 NORTH DELAWARE AVENUE,
SUITE 507
PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

PENNSYLVANIA
NVENTION CENTER
ESTROOM RENOVATIONS

DEMOLITION &
NEW FLOOR
PLANS - ROOM X

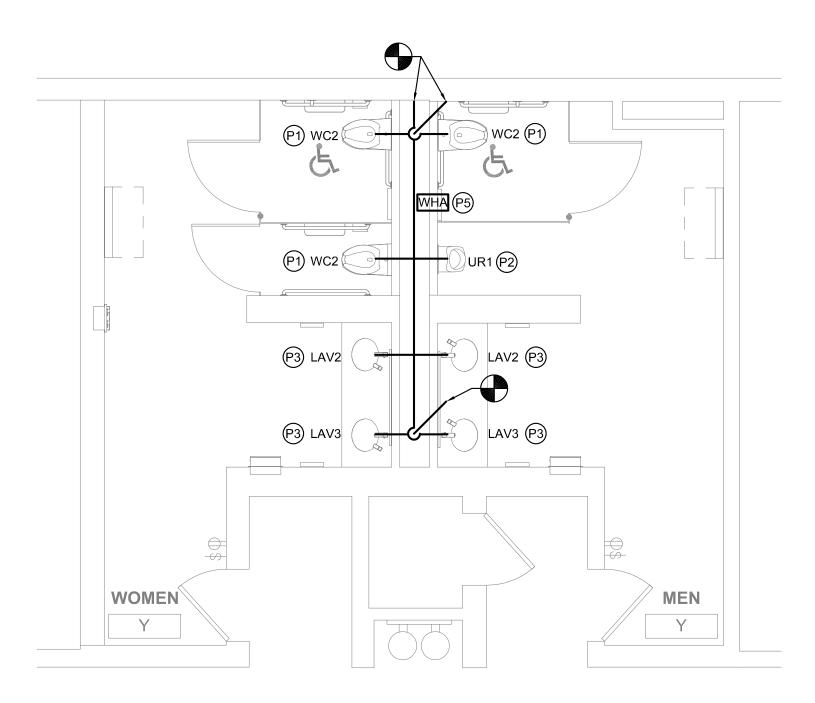
PLANS - ROOM X
(SEMINAR)

Project number CW1615

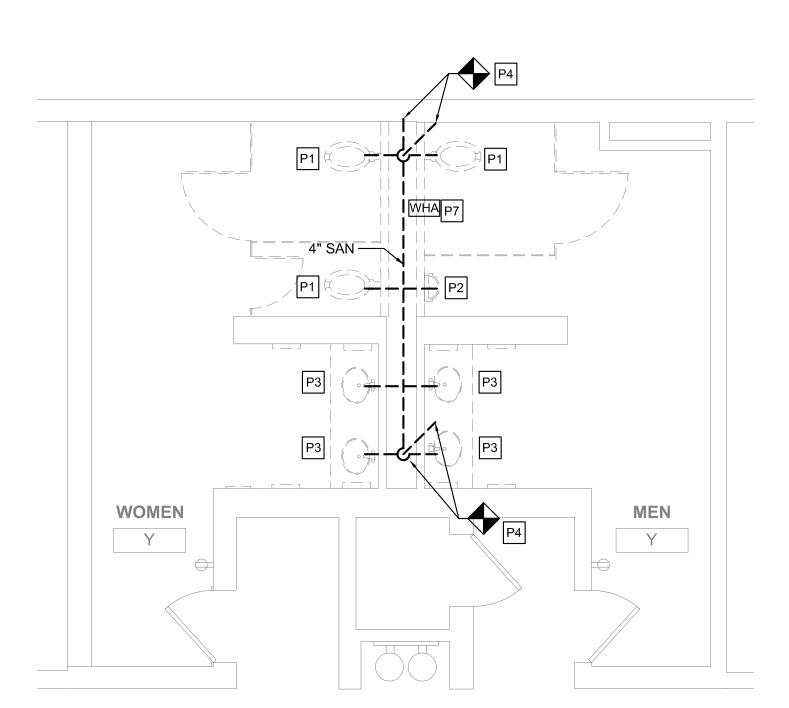
Checked by

November 25, 2019

ale 1/4" = 1'-0"



FLOOR PLAN - MEN'S & WOMEN'S ROOM Y M121 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Y
M121 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.

F	LUMB	ING F	IXTURE	QUAI	NTITIE	S - Y		
	EXIST	TING FIX	TURES	NE	W FIXTL	NET CHANGE		
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU
WATER CLOSET	3	8	24	3	8	24	0	0
URINAL	1	4	4	1	4	4	0	0
LAVATORY	4	2	8	4	2	8	0	0
TOTAL 36 TOTAL 36 NET CHANGE								0
_								

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 PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING CW & HW SUPPLY PIPE CAPPED DURING DEMOLITION.
- 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.

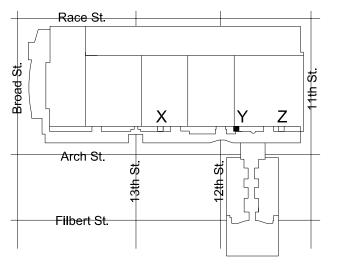
NEW WORK KEYED NOTES

- 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.
- P2 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 NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

DEMOLITION KEYED NOTES

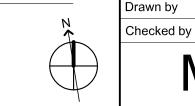
FIXTURE LOCATION AND CONNECTIONS.

- P1 REMOVE EXISTING WATER CLOSET, FLUSH VALVE, CARRIER, PIPING AND ACCESSORIES. REFER TO NEW WORK PLAN FOR NEW
- 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 REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF DEMOLITION.
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - LEVEL 300

0 2' 4' 8'



NTS

: CONVERSE : WINKLER : ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.

1 Wilmington-West Chester Pike | Chadds Ford, PA 1931

(610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:
CSA GROUP
1341 NORTH DELAWARE AVENUE,
SUITE 507
PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

PENNSYLVANIA
NVENTION CENTER
SESTROOM RENOVATIONS

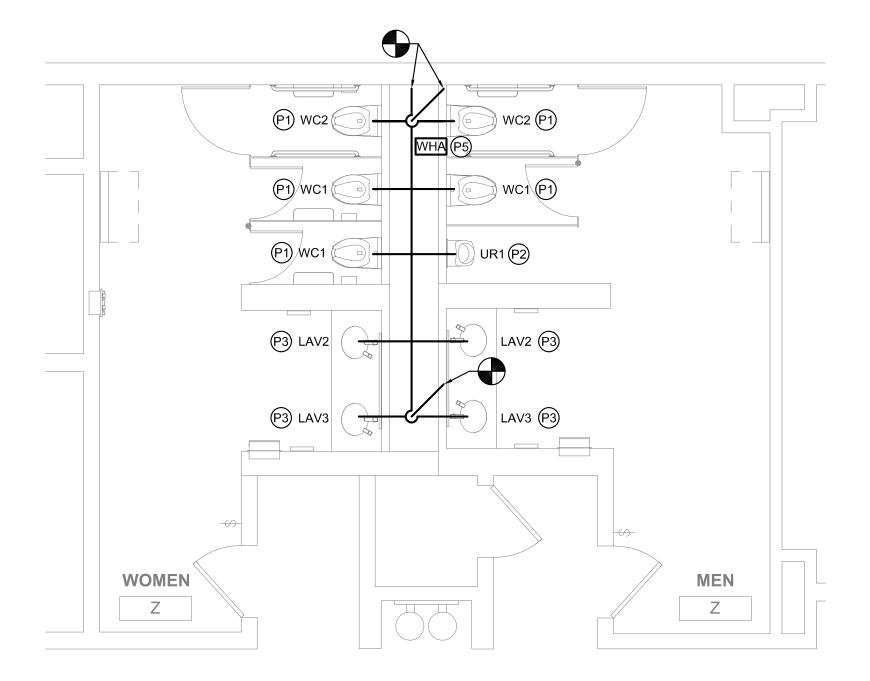
DEMOLITION &
NEW FLOOR
PLANS - ROOM Y

(SEMINAR)

Project number CW1615

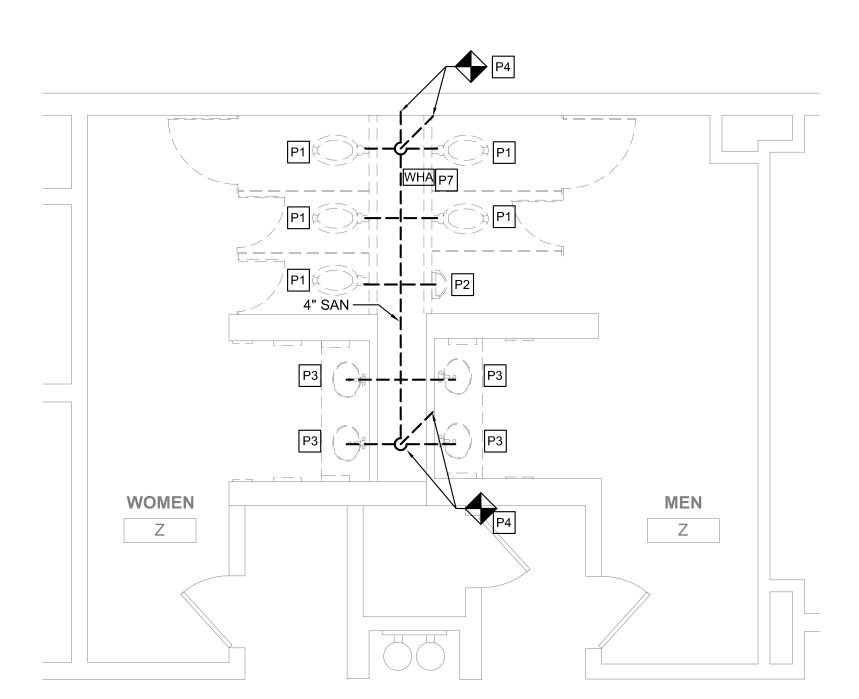
Date November 25, 2019

M121



FLOOR PLAN - MEN'S & WOMEN'S ROOM Z

M122 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Z
M122 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.

F	PLUMB	ING F	IXTURE	: QUAI	NTITIE	S-Z		
	EXIST	TING FIX	TURES	NE	W FIXTL	IRES	NET CHANGE	
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU
WATER CLOSET	5	8	40	5	8	40	0	0
URINAL	1	4	4	1	4	4	0	0
LAVATORY	4	2	8	4	2	8	0	0
TOTAL 52 TOTAL 52 C								0

DOMESTIC WATER NEW WORK:

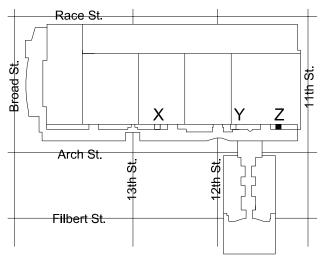
- CONTRACTOR TO DEMOLISH ALL EXISTING CW & HW WATER SUPPLY PIPE EXPOSED BY INTERIOR DEMOLITION WITHIN THE TOILET ROOM. CUT EXISTING SUPPLY PIPE AT LIMIT OF TOILET ROOM PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING CW & 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.
- P2 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 NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

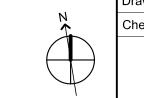
DEMOLITION KEYED NOTES

- 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.
- REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF DEMOLITION.
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - LEVEL 300

2' 4' 8'



NTS

: CONVERSE : WINKLER : ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
1 Wilmington-West Chester Pike | Chadds Ford, PA 193;
(610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:

CSA GROUP
1341 NORTH DELAWARE AVENUE,
SUITE 507
PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

PENNSYLVANIA
NVENTION CENTER
ESTROOM RENOVATIONS

DEMOLITION &
NEW FLOOR
PLANS - ROOM Z

PLANS - ROOM Z
(SEMINAR)

Project number CW1615

Checked by

November 25, 2019

le 1/4" = 1'-0"

Р	PLUMBING FIXTURE QUANTITIES - A1											
	EXIS	TING FIX	TURES	NE	W FIXTL	NET CHANGE						
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU				
WATER CLOSET	14	8	112	14	8	112	0	0				
URINAL	6	4	24	6	4	24	0	0				
LAVATORY	12	2	24	12	2	24	0	0				
		TOTAL	160		TOTAL	160	NET CHANGE	0				

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.

A1

4" SAN ----

P1

5" SAN —

|-----

8. NEW INSULATION SHALL BE INSTALLED FOR ALL NEW DOMESTIC COLD WATER, HOT WATER AND HOT WATER RETURN PIPING.

DOMESTIC WATER NEW WORK:

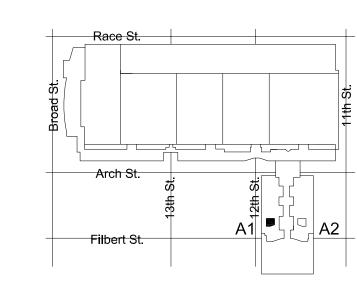
- CONTRACTOR TO DEMOLISH ALL EXISTING CW & HW WATER SUPPLY PIPE EXPOSED BY INTERIOR DEMOLITION WITHIN THE TOILET ROOM. CUT EXISTING SUPPLY PIPE AT LIMIT OF TOILET ROOM PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- 2. CONTRACTOR TO PROVIDE NEW CW & HW SUPPLY PIPE. RECONNECT TO EXISTING INCOMING 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.
- P3 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 NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

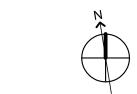
DEMOLITION KEYED NOTES

- 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.
- REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - BALLROOM LEVEL

0 2' 4' 8'



WINKLER

ARCHITECTURE

331 MONTGOMERY AVE
BALA CYNWYD, PA 19144

· · · · · CONVERSE

MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 19
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

CSA GROUP
1341 NORTH DELAWARE AVENUE,
SUITE 507
PHILADELPHIA, PA 19125

STRUCTURAL ENGINEERS:

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER
RESTROOM RENOVATIONS

DEMOLITION &
NEW FLOOR
PLANS - ROOM
A1 (BALLROOM)

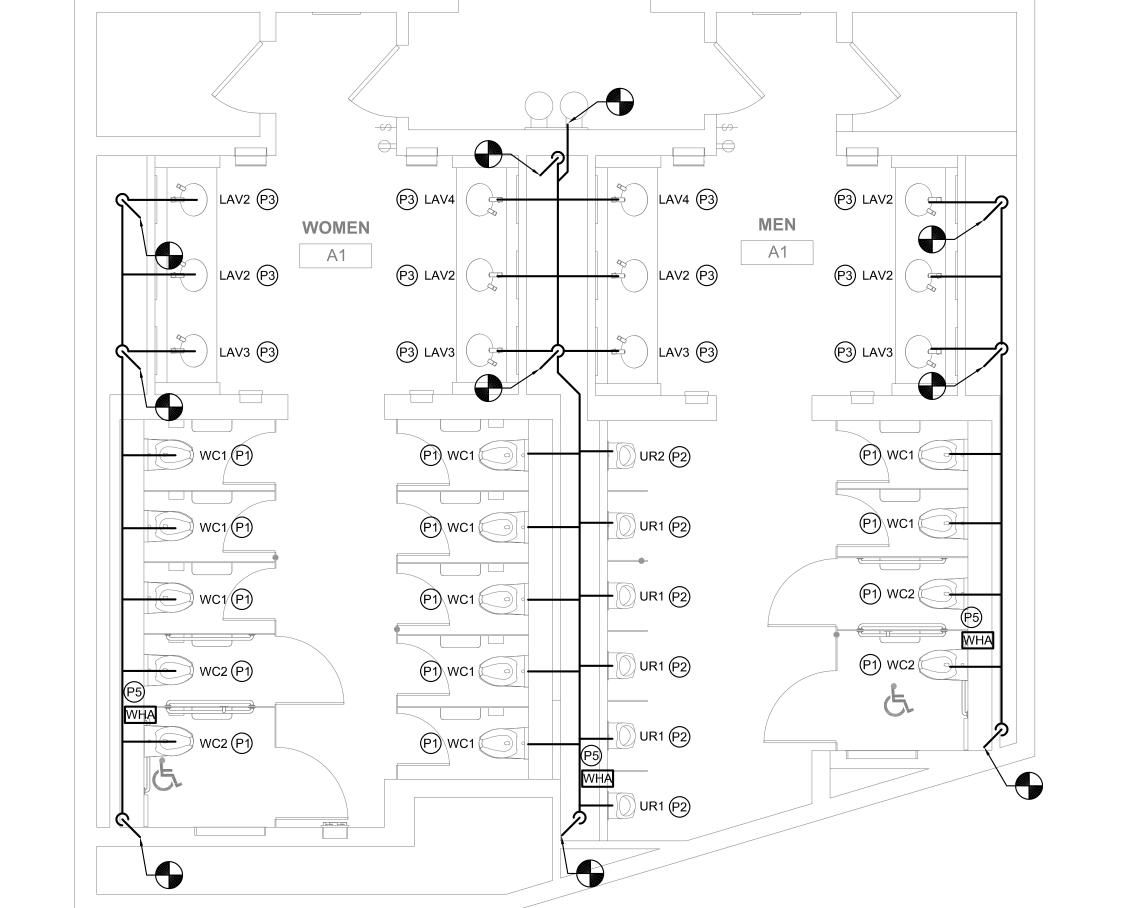
Project number CW1615

Date November 25, 2019

Drawn by DG

Checked by [M123

Scale 1/4" = 1'-0"







A1

M123 SCALE: 1/4" = 1'-0"

WHA P7

____ 5" SAN

PLUMBING FIXTURE QUANTITIES - A2											
	EXIST	TING FIX	TURES	NE	W FIXTL	NET CHANGE					
DESCRIPTION	QTY	DFU	TOTAL DFU	QTY	DFU	TOTAL DFU	QTY	DFU			
WATER CLOSET	14	8	112	14	8	112	0	0			
URINAL	6	4	24	6	4	24	0	0			
LAVATORY	12	2	24	12	2	24	0	0			
		TOTAL	160		TOTAL	160	NET CHANGE	0			

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. REFER TO DRAWING M800 SERIES FOR SANITARY AND VENT RISER
- 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.

WOMEN

A2

3" SAN ---

5" SAN

РЗ

l-----

P1

P1 (

P1

8. NEW INSULATION SHALL BE INSTALLED FOR ALL NEW DOMESTIC COLD WATER, HOT WATER AND HOT WATER RETURN PIPING.

DOMESTIC WATER NEW WORK:

- 1. 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 PERIMETER WALLS AND CAP FOR NEW WORK CONNECTIONS.
- 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.

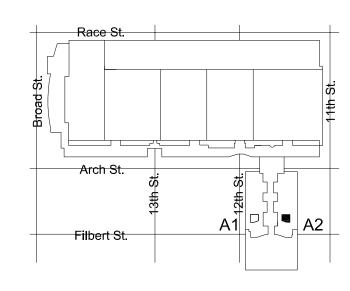
7. CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS TO DOMESTIC WATER SUPPLY LINES PRIOR TO LAST FIXTURE IN SERIES AS INDICATED. SEE WATER HAMMER ARRESTOR SCHEDULE SHEET M-200.

NEW WORK KEYED NOTES

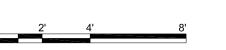
- (P1) PROVIDE NEW WATER CLOSET AND ALL ACCESSORIES AS NOTED ON FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO, FLUSHOMETER, CARRIER, SHUT OFF VALVE, SEAT, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P2) PROVIDE NEW URINAL AND 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.
- (P3) 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.
- (P4) PROVIDE NEW ELECTRIC WATER COOLER AND ALL ACCESSORIES AS NOTED ON THE FIXTURE SCHEDULE INCLUDING, BUT NOT LIMITED TO WATER COOLER, REFRIGERATION, FILTER, DOMESTIC WATER, SANITARY AND VENT PIPING. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT AND ADA REQUIREMENTS.
- (P5) PROVIDE NEW WATER HAMMER ARRESTOR.
- P6 PROVIDE FLOOR DRAIN AS NOTED WITH TRAP PRIMER PER CONVENTION CENTER STANDARDS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
- (P7) CONTRACTOR SHALL PROVIDE NEW SANITARY FITTINGS FROM NEW INSTALLED SANITARY AND VENT PIPE TO EXISTING PIPE.
- (P8) EXISTING WATER HEATER TO REMAIN. PROVIDE NEW SHUT OFF VALVE FOR NEW HOT WATER SERVICE.

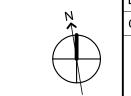
DEMOLITION KEYED NOTES

- 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 REMOVE SANITARY PIPING IN CHASE TO ALLOW INSTALLATION OF NEW CARRIERS AND FIXTURES. EXISTING VENT PIPING MAY REMAIN. CONTRACTOR SHALL CONNECT FIXTURES TO EXISTING VENT PIPING TO MEET PHILADELPHIA PLUMBING CODE.
- P5 REMOVE EXISTING ELECTRIC WATER COOLER, PIPING AND ACCESSORIES, CUT AND CAP DOMESTIC COLD WATER PIPE. REFER TO NEW WORK PLAN FOR NEW FIXTURE LOCATION AND CONNECTIONS.
- P6 REFER TO NOTE 1 OF DOMESTIC WATER NEW WORK FOR LIMIT OF
- P7 DEMOLISH EXISTING WATER HAMMER ARRESTER.
- P8 EXISTING WATER HEATER TO REMAIN. DEMOLISH HOT WATER PIPE BACK TO INSIDE OF JANITOR'S ROOM.



KEY PLAN - BALLROOM LEVEL





· · · · · CONVERSE **WINKLER** • ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. (610) 459-7900 | F (610) 459-7950 | aroraengineers.

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS: Description Date

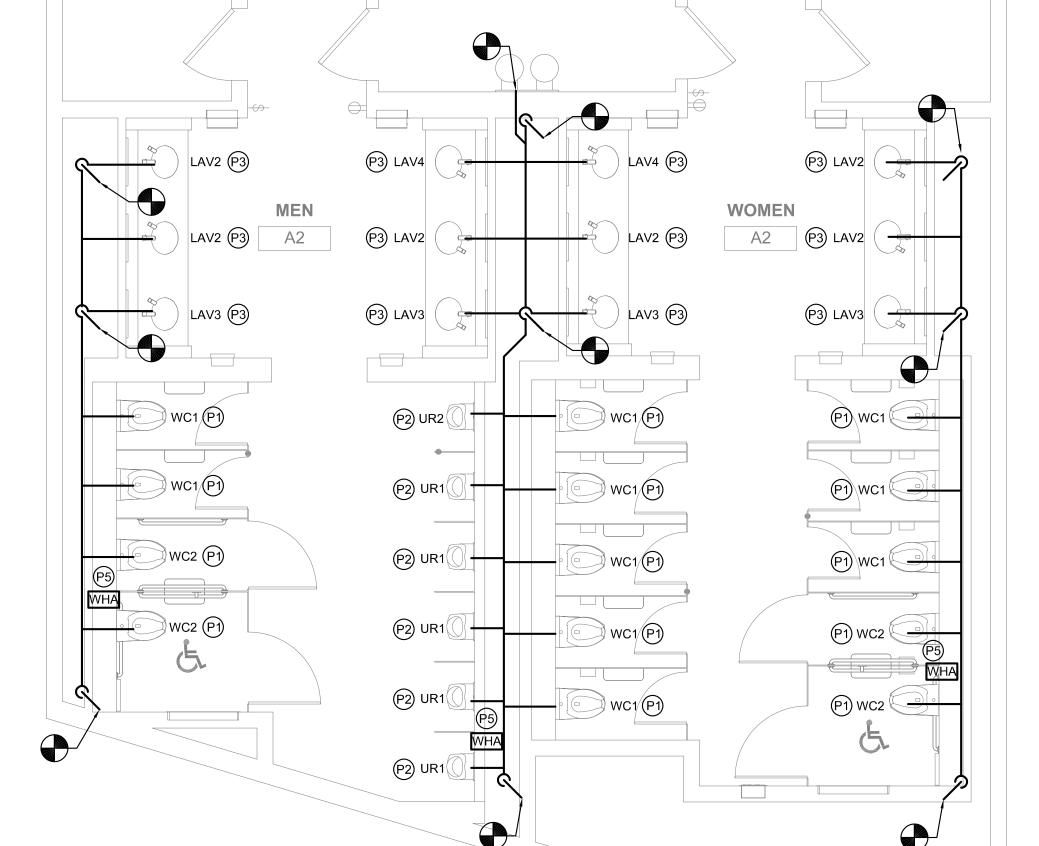
ER NA A O PENNSYLV NVENTION

DEMOLITION & NEW FLOOR PLANS - ROOM A2 (BALLROOM)

 $\overline{\mathsf{O}}$

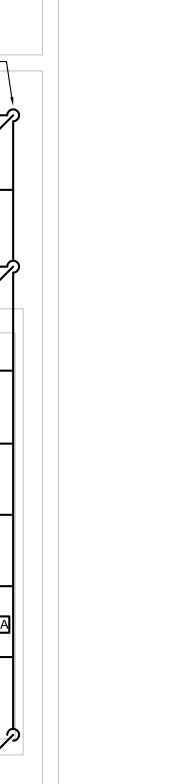
CW1615 Project number November 25, 2019 Drawn by Checked by

1/4" = 1'-0"



FLOOR PLAN - MEN'S & WOMEN'S ROOM A2

M124 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM A2 M124 SCALE: 1/4" = 1'-0"

3" SAN -

5" SAN

P2

P4

5" SAN

4-4

GRILLE / REGISTER / DIFFUSER SCHEDULE SLOT DIFFUSER MAXIMUM NECK SIZE (INCHES) FACE SIZE (INCHES) CFM RANGE MANUFACTURER & MODEL DESCRIPTION COMMENTS NOMINAL LENGTH LENGTH NO. SLOT SLOTS WIDTH (BASIS OF DESIGN) REMARKS WIDTH OF GRILLE TO MATCH KRUEGER DFL FOR GWB PROVIDE PLENUM BOX BY KRUEGER OR CONSTRUCT BOX IN FIELD. CONTRACTOR FINISH PER LINEAR CEILING CEILING, LESS PATTERN | SHALL TRANSITION FROM EXISTING DUCTWORK TO NEW PLENUM BOX AND REBALANCE 24" WIDTH OF ADJACENT LINEAR 23-5/8" EG1 70 - 250 EXHAUST GRILLE MOUNTED DEFLECTORS, FRAME CC LIGHT FIXTURE TO CFM AS NOTED ON PLAN VIEWS. END CAP 06 BOTH ENDS. CUSTOM COLOR PROVIDE BLANK OFF, KRUEGER FINISH PER KRUEGER DFL FOR GWB PROVIDE PLENUM BOX BY KRUEGER OR CONSTRUCT BOX IN FIELD. CONTRACTOR 1-1/2" | PROVIDE BLAING OFF, INDUCEDED FINISH PER | ARCHITECT LINEAR CEILING 24" 23-5/8" CEILING, LESS PATTERN EG2 70 - 250 SHALL TRANSITION FROM EXISTING DUCTWORK TO NEW PLENUM BOX AND REBALANCE EXHAUST GRILLE MOUNTED GRILLE IN SOFFIT DEFLECTORS, FRAME AD TO CFM AS NOTED ON PLAN VIEWS. BUTT ENDS 03, TYP. FINISH PER TRANSFER CEILING 18" X 18" KRUEGER S85 TG1 N/ABLADES SHALL HAVE 35° DEFLECTION ANGLE. 200 -1100 ARCHITECT **GRILLE** MOUNTED

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.	

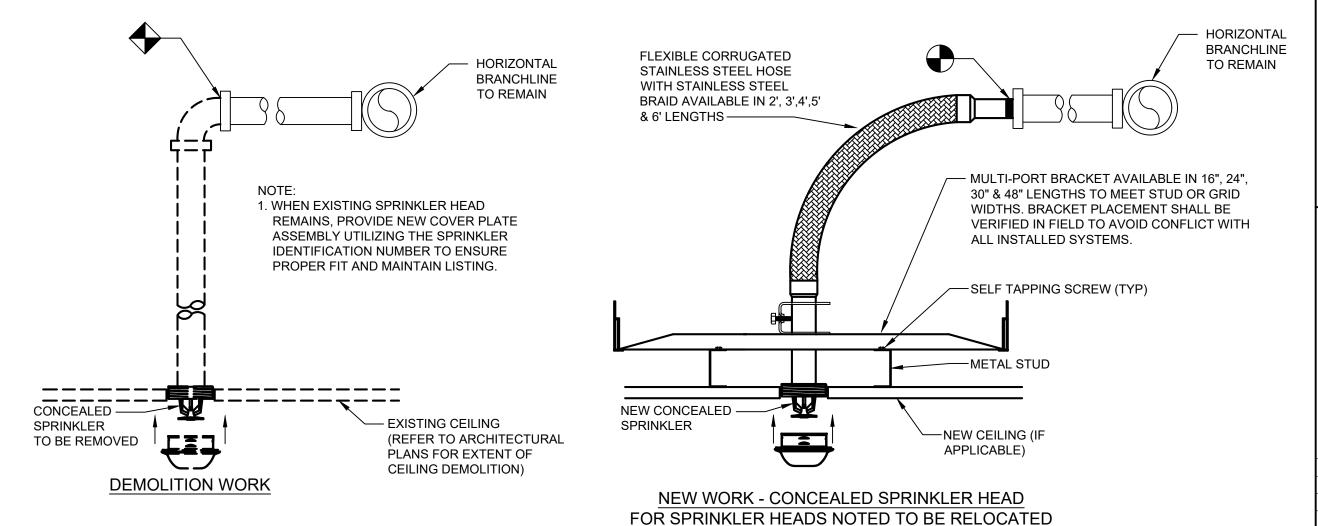
PIPE SIZE (IN)	SYMBOL	AIR CHARGE	PISTON LENGTH	PISTON DIAMETER	FIXTURE UNIT: (DFU)
1/2"	А	60 PSIG	6"	1-1/8"	1 - 11
3/4"	В	60 PSIG	7-1/4"	1-1/8"	12 - 32
1"	С	60 PSIG	8-3/4"	1-3/8"	33 - 60
1-1/4"	D	60 PSIG	10-3/16"	1-5/8"	61 - 113

2. DFU COUNT SHALL BE BASED ON PHILADELPHIA PLUMBING CODE.

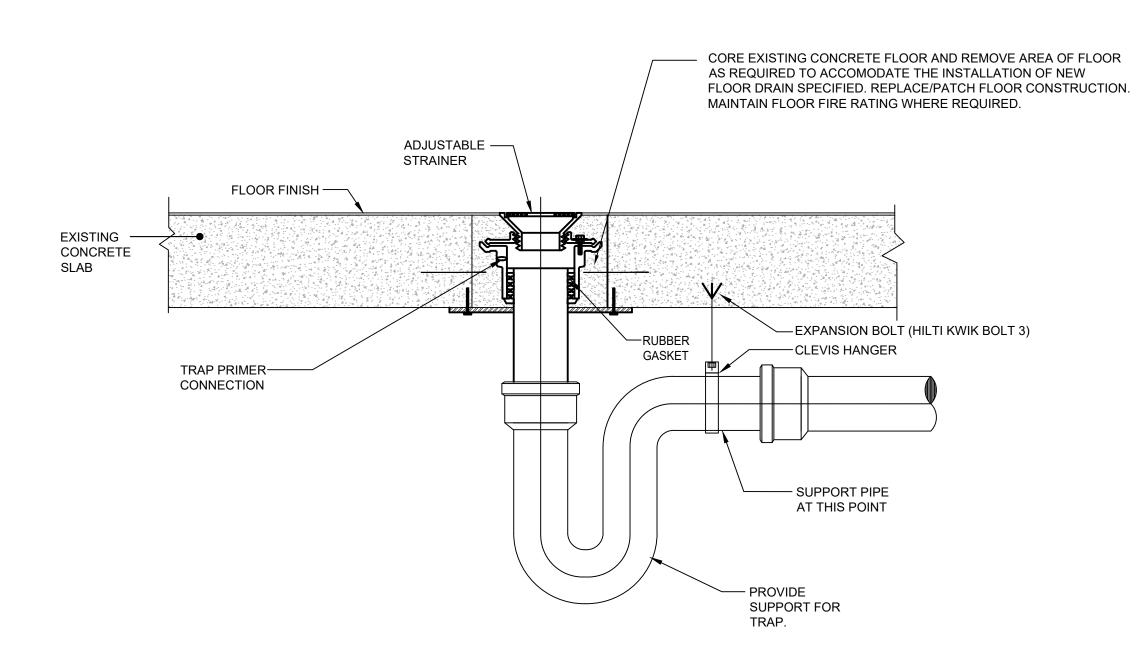
			FIXTURE CONNECTION SIZE			I SIZE	
TAG	DESCRIPTION	LOCATION	CW	HW	SAN	V	BASIS OF DESIGN MANUFACTURER, MODEL NUMBER, TRIM AND ACCESSORIES
WC1	WATER CLOSET	AS NOTED BY ARCHITECT	1"	-	4"	2"	PROVIDE WATER SENSE LABELED TOTO CT708 EVG AND FLUSH VALVE TET2LA31#SS. WATER CLOSET AND CONCEALED FLUSH VALVE FOR 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.
UR3	URINAL	AS NOTED BY ARCHITECT	3/4"	-	2"	2"	PROVIDE WATER SENSE LABELED TOTO UT104 E#01 AND FLUSH VALVE TEU1LA#CP. URINAL AND EXPOSED FLUSH VALVE FOR WALL MOUNTED URINAL WITH A TOP SPUD WATER SUPPLY. PROVIDE STAINLESS STEEL DRAIN COVER.
UR4	URINAL	ADA BY ARCHITECT	3/4"	-	2"	2"	PROVIDE WATER SENSE LABELED TOTO UT104 E#01 AND FLUSH VALVE TEU1LA#CP. URINAL AND EXPOSED FLUSH VALVE FOR WALL MOUNTED URINAL WITH A TOP SPUD WATER SUPPLY. PROVIDE STAINLESS STEEL DRAIN COVER.
LAV1	LAVATORY DUAL BASIN	EXHIBIT HALL RESTROOMS	1/2"	1/2"	1-1/4"	1-1/4"	SLOAN AER-DEC INTEGRATED SINK SYSTEM - INTEGRAL SINK WITH COUNTERTOP, BASYS EHD-510 HAND DRYER, BASYS MID HEIGHT; CHROME FINISH, SENSOR FAUCET AND HANDS FREE SOAP DISPENSER ESD-500-CP, WITH AC ADAPTOR. SEE ARCHITECTURAL DRAWINGS FOR CUSTOM LAYOUT AND DIMENSIONS.
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.
LAV4	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 NOTE LAV 4 IS SUPPLIED WITH AN ENHANCED REACH WHERE NOTED BY ARCHITECT
EWC1	ELECTRIC WATER COOLER	EXTERIOR TO REST ROOM	1/2"	-	1-1/4"	1-1/4"	HALSEY TAYLOR ELECTRIC WATER COOLER, MODEL OVL-II SERIES, BI-LEVEL WITH BOTTLE FILLER.
EWC2	ELECTRIC WATER COOLER	EXTERIOR TO REST ROOM	1/2"	-	1-1/4"	1-1/4"	HALSEY TAYLOR ELECTRIC WATER COOLER, MODEL OVL-II SERIES, BI-LEVEL WITH BOTTLE FILLER. PROVIDE WITH CANE TOUCH APRON MODEL #HTOVLAPR.
FD1	FLOOR DRAIN	TOILET ROOMS Q, R, S, & T	1/2"	-	2"	1-1/4"	JR SMITH 2110 WITH 1/2" TRAP PRIMER CONNECTION. GRATE SHALL BE VANDAL AND HEEL PROOF POLISHED BRONZE.

FIRE PROT	FIRE PROTECTION HANGER SCHEDULE											
MAXIMUM DISTANCE BETWEEN HANGERS												
NOMINAL PIPES SIZE (in.)	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	HANGERS 4" OR LARGER TO BE CLEVIS TYPE HANGERS, 3" AND SMALLER ARE ALLOWED TO BE BAND TYPE HANGERS.											

SI	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
(E)	EXISTING CONCEALED PENDENT SPRINKLER	N/A	N/A	N/A	71	1/2"	165	PROVIDE NEW FLAT CONCEALED COVER PLATE FOR ALL EXISTING TO REMAIN SPRINKLER HEADS COLOR BY ARCHITECT
•(N)	CONCEALED PENDENT SPRINKLER	STANDARD	QUICK	5.6	113	1/2"	165	STANDARD BRASS / FLAT CONCEALED COVER PLATE / COLOR BY ARCHITECT



1 TYPICAL SPRINKLER HEAD RELOCATION MODIFICATION M200 SCALE: NOT TO SCALE





CONVERSE
WINKLER
ARCHITECTURE
331 MONTGOMERY AVE
BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 1931
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cor

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:
CSA GROUP
1341 NORTH DELAWARE AVENUE,

Ph: 215.427.8700

PHILADELPHIA, PA 19125

Fax: 215.427.8752

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



REVISIONS:

Description Date

ONVENTION CENTER

SCHEDULES AND DETAILS

Project number CW1615

Date November 25, 2019

Drawn by DG, WB

Checked by DM

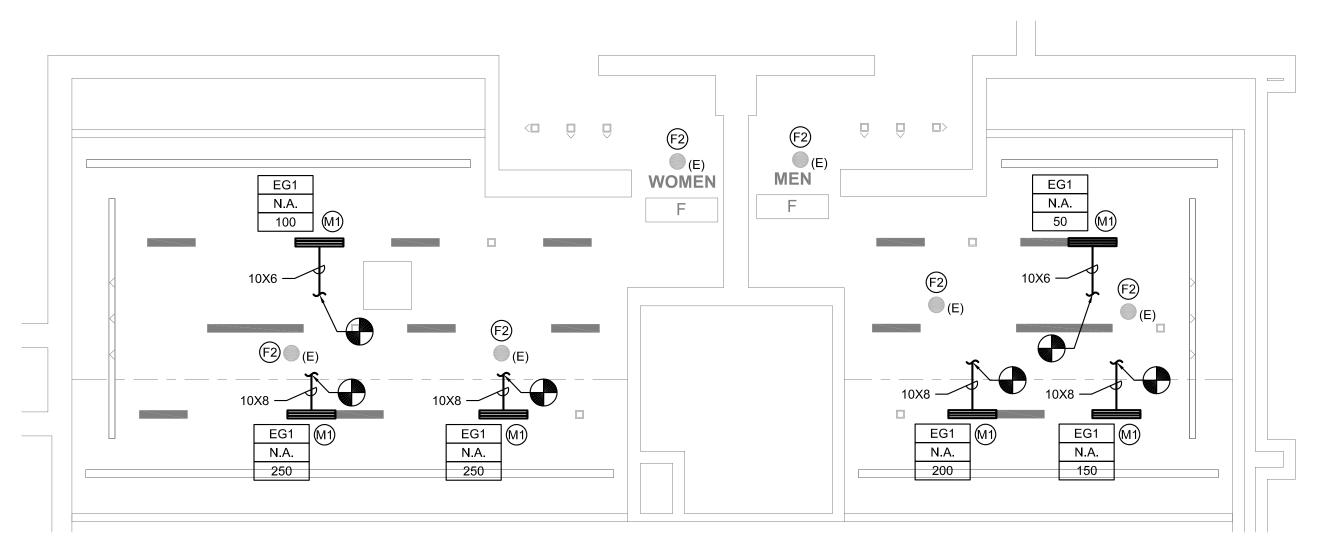
M200

NOT TO SCALE

EXHAUST VENTILATION - TOILET ROOM F						
	ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)
	TOILET ROOM-PUBLIC	MEN	5	70	350	400
	TOILET ROOM-PUBLIC	WOMEN	7	70	490	600
	NOTEO.					

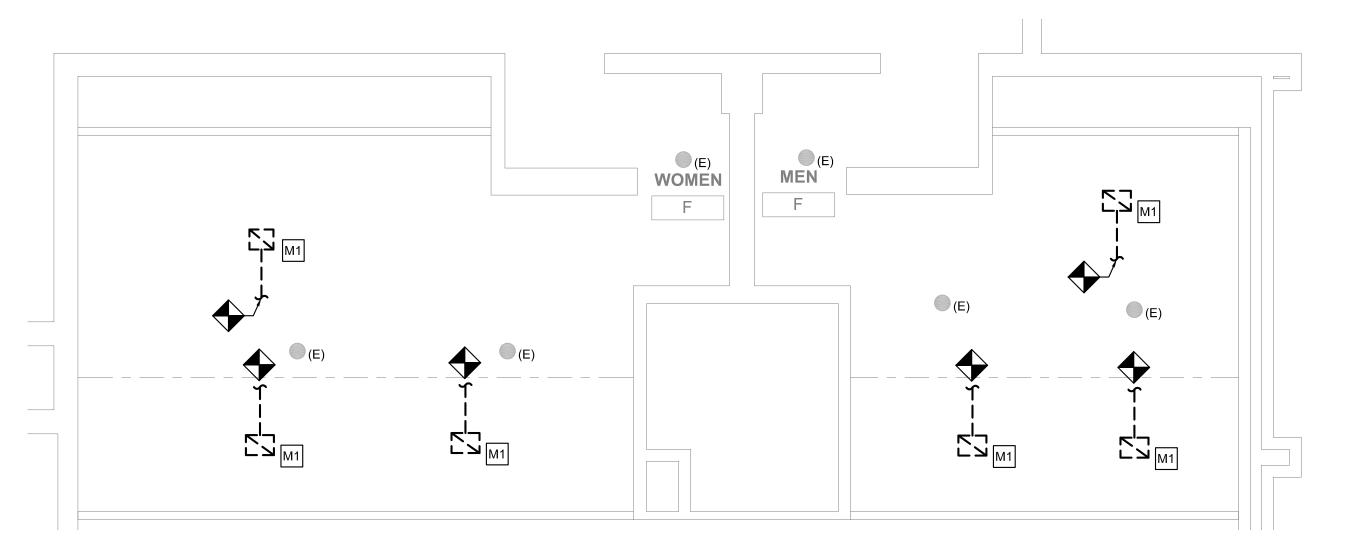
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM F

M602 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM F M602 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

KEY PLAN - LEVEL 100



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Date Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM F** (EXHIBIT)

CW1615 November 25, 2019

DG, WB

NTS

M602

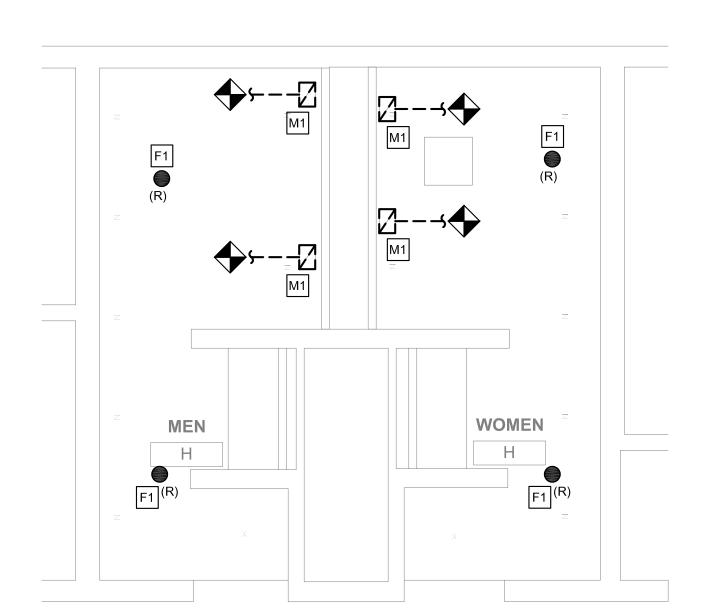
EXHAUST VENTILATION - TOILET ROOM H								
ROOM TYPE ROOM NAME TOTAL NUMBER OF WC'S AND UR'S EXHAUST AIR (CFM PER FIXTURE) EXHAUST AIR (CFM REQUIRED) CFM PROVIDED)								
TOILET ROOM-PUBLIC	MEN	4	70	280	280			
TOILET ROOM-PUBLIC	WOMEN	4	70	280	280			
NOTES:	NOTES:							

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

Z	10X8 M1	10X8	F1
Z (N)		EG2 N.A. 140	(N)
z	10X8	10X8	
E FIMEN (N) H		WO	MENET (N)
Z	(N)	(N)	

4	REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM H
M603	SCALE: 1/4" = 1'-0"

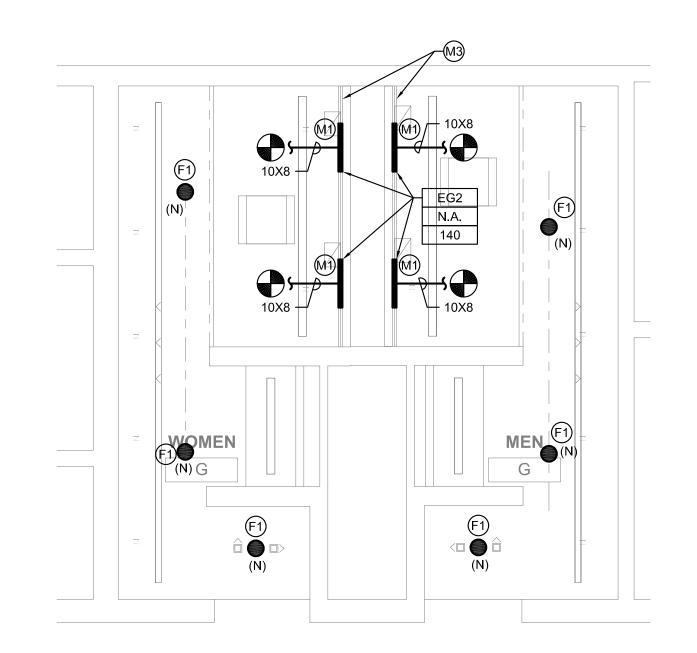


DEMO PLAN - MEN'S & WOMEN'S ROOM H M603 SCALE: 1/4" = 1'-0"

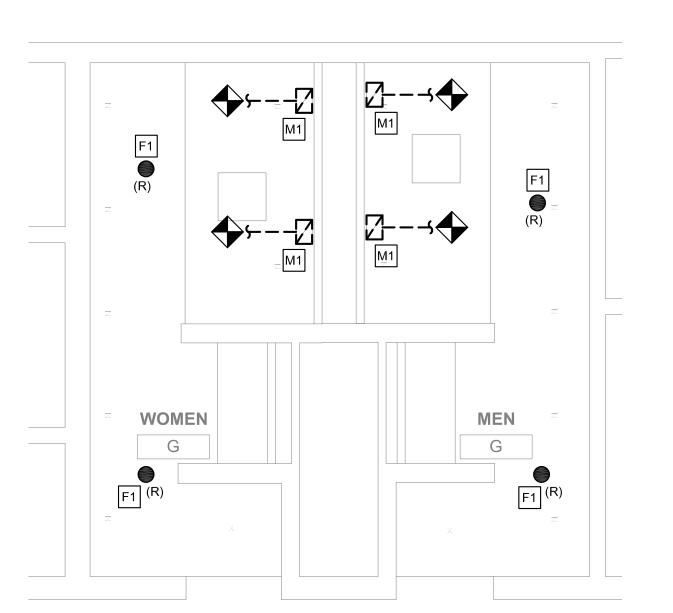
	EXHAUST VENTILATION - TOILET ROOM G						
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)		
TOILET ROOM-PUBLIC	MEN	4	70	280	280		
TOILET ROOM-PUBLIC	WOMEN	4	70	280	280		
NOTES:							

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM G M603 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM G M603 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

Arch St.

KEY PLAN - LEVEL 100



MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS: Description Date

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -**ROOMS G, H (EXHIBIT)

CW1615 November 25, 2019 DG, WB Drawn by Checked by

M603

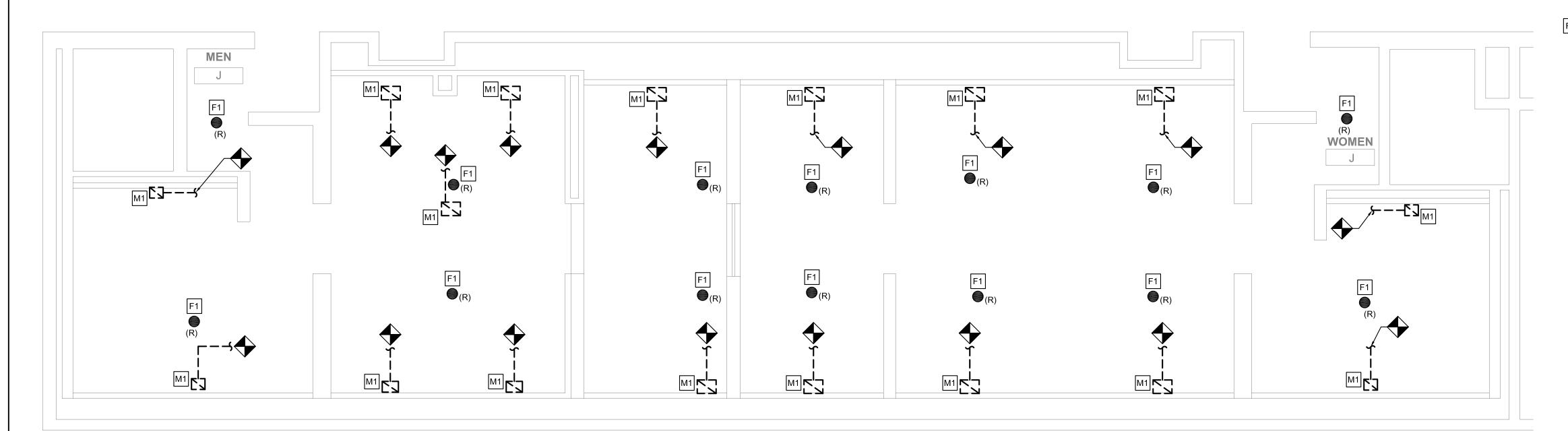
EXHAUST VENTILATION - TOILET ROOM J								
ROOM TYPE	ROOM TYPE ROOM NAME ROOM NAME ROOM OF WC'S AND UR'S ROOM TYPE ROOM TYPE ROOM OF WC'S AND UR'S ROOM TYPE ROOM OF WC'S AND UR'S ROOM OF WC'S ROOM							
TOILET ROOM-PUBLIC	MEN	19	70	1330	1480			
TOILET ROOM-PUBLIC WOMEN 19 70 1330 1490								
NOTES:								

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC). 2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

MEN J (N) (N)	EG1 N.A. 210 210 (N)	10X8 EG2 N.A. 210	14X12 EG2 N.A. 210	10X8 EG2 10X8 N.A. 250	EG2 N.A. 250	(N) WOMEN F1 (N) (N) (N) F1 (N)
EG2 N.A. 75 10X6	10X8 EG1 N.A. 210 (N)	(N)	(N) (N)	(N) (N)	(N) (F1) (N)	10X6 F1
EG2 N.A. 75	EG2 N.A. 140 10X10 M1 10X8 M1 M3	EG2 N.A. 210	EG2 N.A. 210	10X8 M1 10X8	EG2 N.A. 210	EG2 N.A. 75 10X8

REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM J

M604 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM J

M604 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. West Chester Pike | Chadds Ford, PA 193 (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Description Date

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM J**

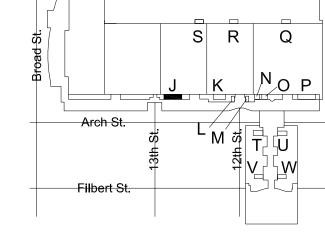
(EXHIBIT)

NTS

CW1615 November 25, 2019 DG, WB Drawn by Checked by

M604

1/4" = 1'-0"

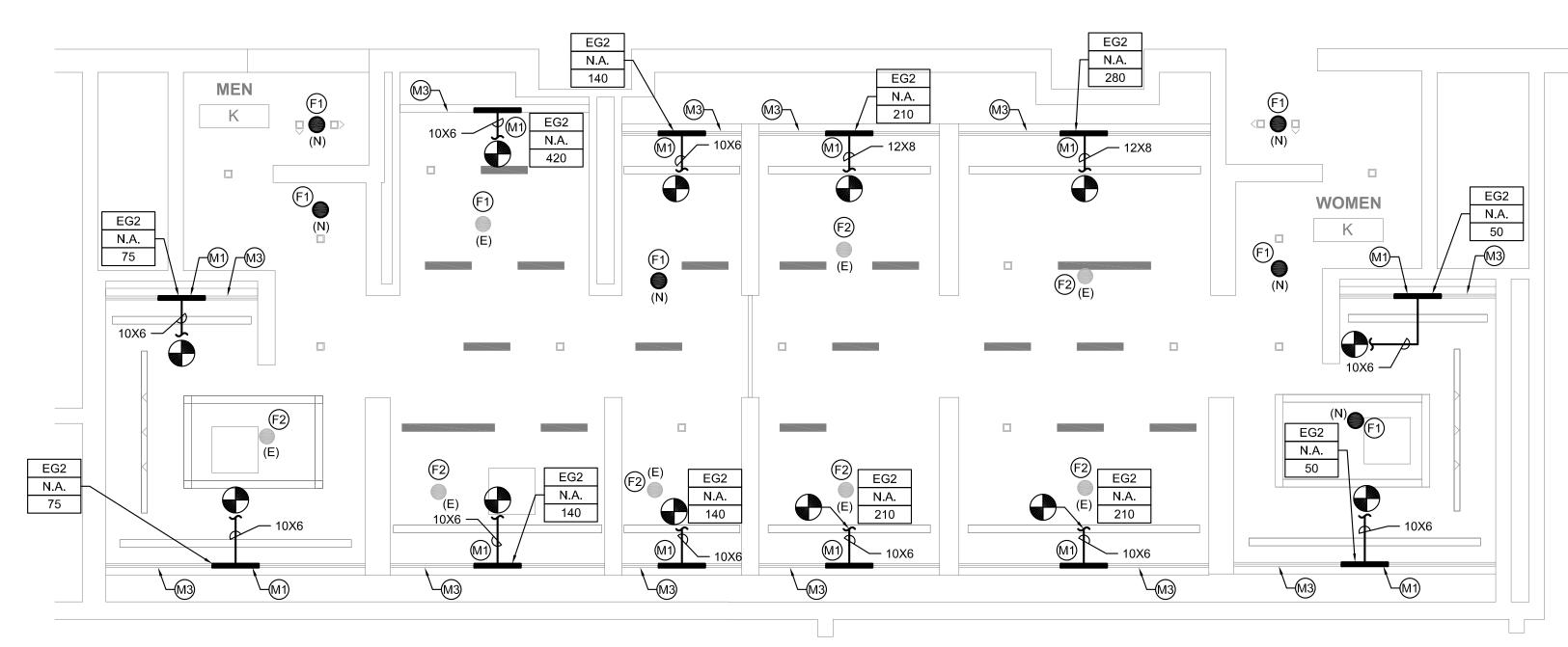


KEY PLAN - LEVEL 200

EXHAUST VENTILATION - TOILET ROOM K								
ROOM TYPE ROOM NAME ROOM TYPE ROOM NAME ROOM NAME ROOM TYPE ROOM NAME ROOM TYPE ROOM NAME ROOM NAME ROOM TYPE ROOM TYPE ROOM NAME ROOM NAME ROOM NAME ROOM NAME ROOM NAME ROOM CENTER (CFM PER (CFM REQUIRED)) ROOM CENTER (CFM PROVIDE)								
TOILET ROOM-PUBLIC	MEN	12	70	840	990			
TOILET ROOM-PUBLIC	WOMEN	13	70	910	1010			
NOTES:								

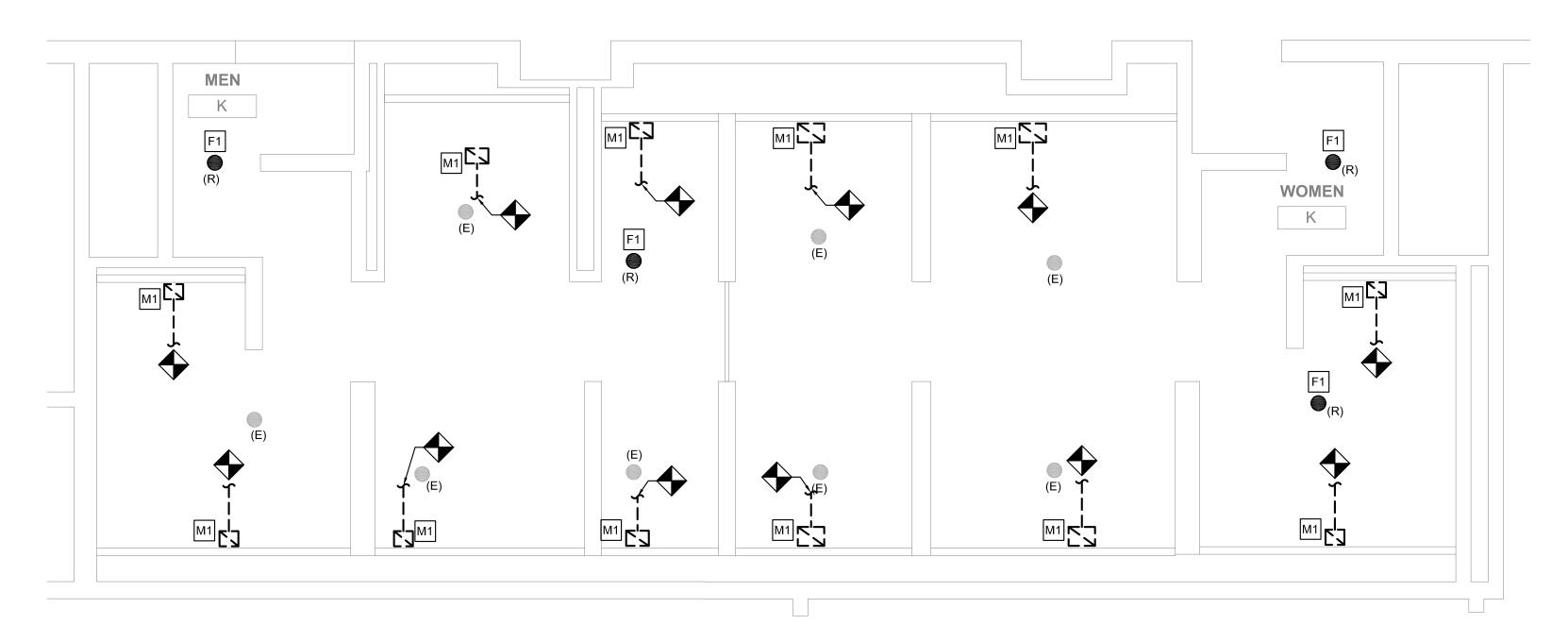
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM K

M605 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM K

M605 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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.
- 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.
- 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.
- EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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.
- 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.
- F1 REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



331 MONTGOMERY AVE BALA CYNWYD, PA 19144

Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 193 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.c

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:

1341 NORTH DELAWARE AVENUE,

SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

CSA GROUP

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



No. Description But	No.	Description	Date		
	110.	Bescription	Date		

PENNSYLVANIA ONVENTION CENTER

REFLECTED
CEILING PLAN ROOM K

(EXHIBIT)

Project number CW1615

Date November 25, 2019

Drawn by DG, WB

NTS

M605

cale 1/4" = 1'-0"

KEY PLAN - LEVEL 200

0 2' 4' 8'

EXHAUST VENTILATION - TOILET ROOM N								
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)			
OILET ROOM-PUBLIC	WOMEN	10	70	700	750			

EG2

N.A.

- 1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).
- 2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

EXHAUST VENTILATION - TOILET ROOM O					
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)
TOILET ROOM-PUBLIC	MEN	9	70	630	630
NOTES:					

- 2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)			
TOILET ROOM-PUBLIC MEN 9 70 630 630								
NOTES:								
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).								

NEW WORK KEYED NOTES

6. KEYED NOTES MAY NOT APPEAR IN ALL PLAN VIEWS.

2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.

3. EXISTING SPRINKLER HEADS SHALL NOT BE RE-INSTALLED.

4. ALL SPRINKLERS SHALL BE CONCEALED SPRINKLER HEADS.

5. DUCT SIZES AS NOTED ARE FROM HISTORICAL DRAWINGS.

REUSING SPRINKLER HEADS REMOVED WITHIN PROJECT SCOPE IS

SPRINKLER FINISH SHALL BE COORDINATED WITH THE ARCHITECT.

CONTRACTOR SHALL VERIFY ALL SIZES ARE AS SHOWN PRIOR TO START OF WORK. PROVIDE NEW/REPLACE OR MODIFY AS REQUIRED.

GENERAL NOTES

AND LEGENDS.

PROHIBITED.

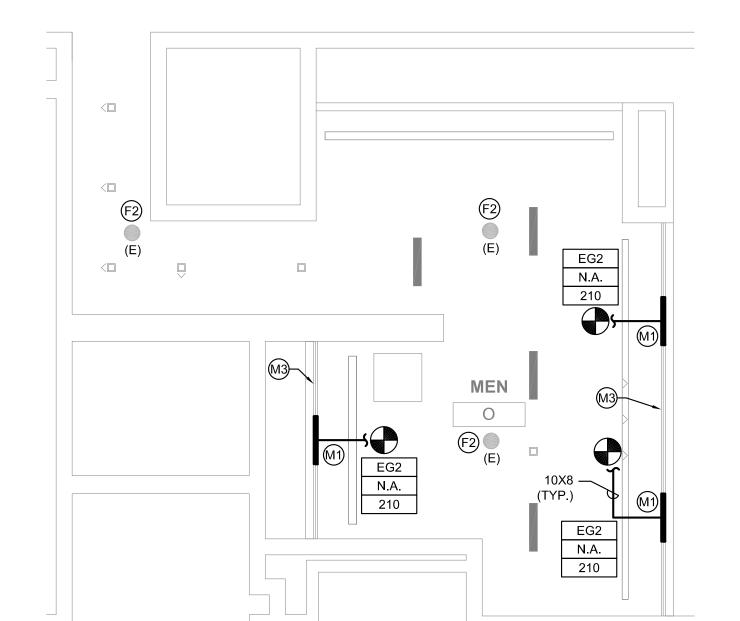
- (M1) PROVIDE NEW CEILING MOUNTED LINEAR SLOT GRILLE FOR TOILET ROOM EXHAUST. CONNECT TO EXISTING EXHAUST DUCTWORK. PROVIDE TRANSITION FROM EXISTING TO NEW. RE-BALANCE EXHAUST SYSTEM AS NOTED ON DRAWING AND IN ACCORDANCE WITH 2018 IMC. WHERE NOTED BY ARCHITECT, GRILLE COLOR TO MATCH SOFFIT COLOR. CONTRACTOR 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

PRE-DEMOLITION BALANCING NOTE

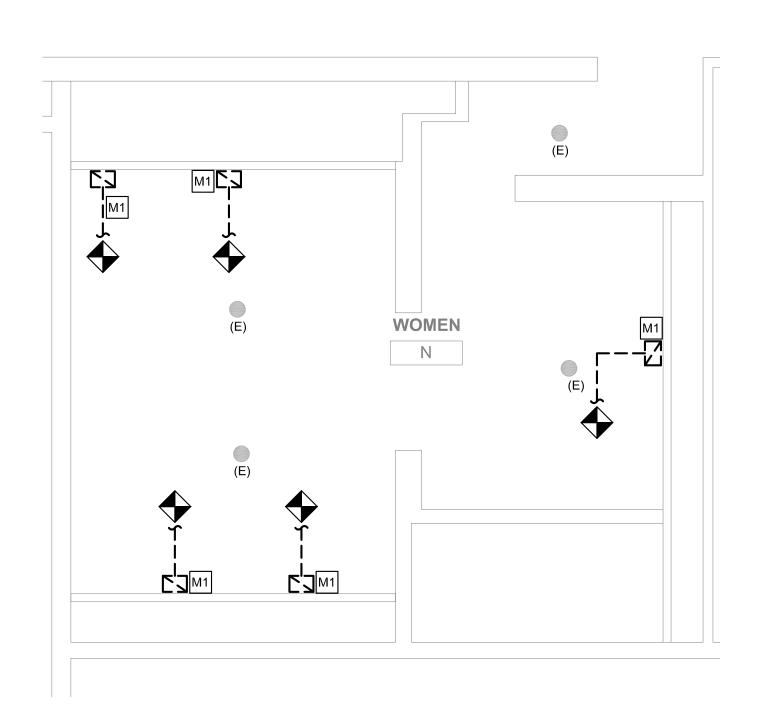
PRIOR TO START OF ANY WORK, MEASURE AND RECORD EXISTING EXHAUST AIRFLOWS THRU EXISTING GRILLES. SUBMIT PRE-DEMOLITION BALANCING REPORT TO ENGINEER PRIOR TO STARTING ANY WORK. VERIFY (E) BALANCING PROVISIONS AND PROVIDE NEW/ADDITIONAL BALANCING DAMPERS, ETC AS REQUIRED TO BALANCE NEW INSTALLATION TO VALUES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

DEMOLITION KEYED NOTES

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.









EG2

N.A.

150

N.A.

150

M606 SCALE: 1/4" = 1'-0"

(TYP.)

EG2

N.A.

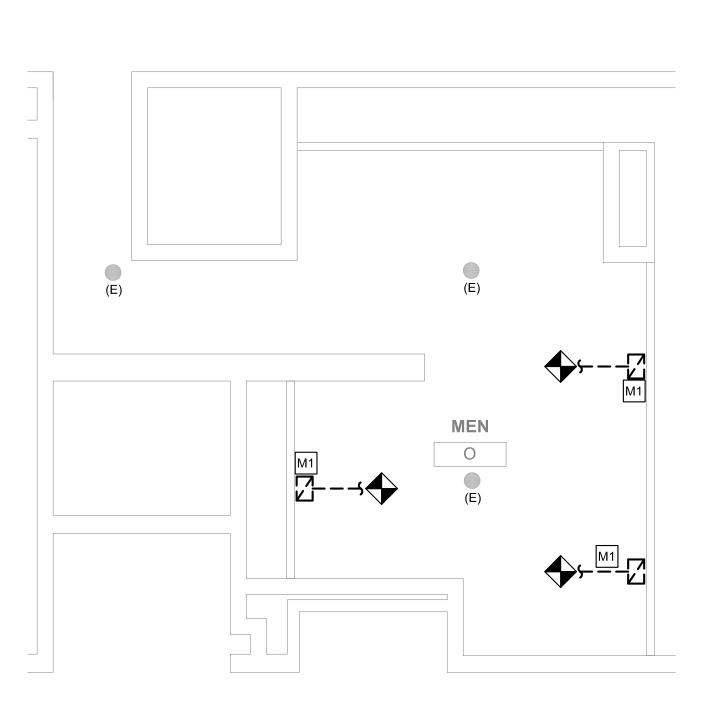
200

WOMEN

Ν

N.A.

4 REFLECTED CEILING PLAN - WOMEN'S ROOM N

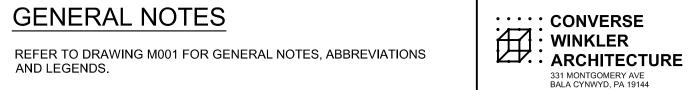


DEMO PLAN - MEN'S ROOM O M606 SCALE: 1/4" = 1'-0"

KEY PLAN - LEVEL 200

S R

NTS



MEP ENGINEERS:



Arora Engineers, Inc. West Chester Pike | Chadds Ford, PA 193 (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -**ROOMS N, O (EXHIBIT)

CW1615 November 25, 2019 DG, WB Checked by

M606

EXHAUST VENTILATION - TOILET ROOM P								
I BOOM TYPE I '''' I OF WO'S AND I (CEMPER I					EXHAUST AIR (CFM PROVIDED)			
TOILET ROOM-PUBLIC	MEN	19	70	1330	1480			
TOILET ROOM-PUBLIC	WOMEN	19	70	1330	1490			
NOTEO								

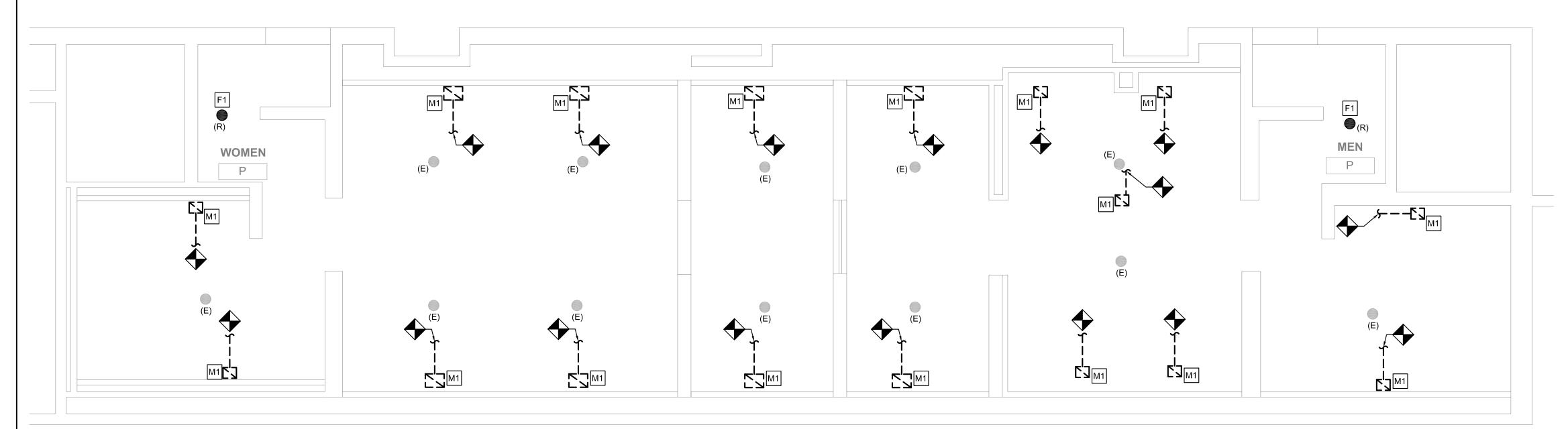
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

EG1 N.A. N.A. 210 EG2 N.A. EG2 EG2 EG2 N.A. N.A. N.A. 210 250 250 210 EG2 WOMEN N.A. N.A. 75 75 — 10X6 EG1 N.A. 210 EG2 EG2 N.A. N.A. 75 \ (E) EG2 EG2 EG2 EG2 EG2 EG2 N.A. N.A. N.A. N.A. N.A. N.A. 10X6 -210 210 140 210 210 M3 _M3

REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM P

M607 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM P

M607 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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

- M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM P**

(EXHIBIT)

NTS

CW1615 November 25, 2019 DG, WB

Checked by M607

1/4" = 1'-0"

S R

KEY PLAN - LEVEL 200

EXHAUST VENTILATION - TOILET ROOM Q							
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)		
TOILET ROOM-PUBLIC	MEN	6	70	420	420		
TOILET ROOM-PUBLIC	WOMEN	5	70	350	350		
NOTES							

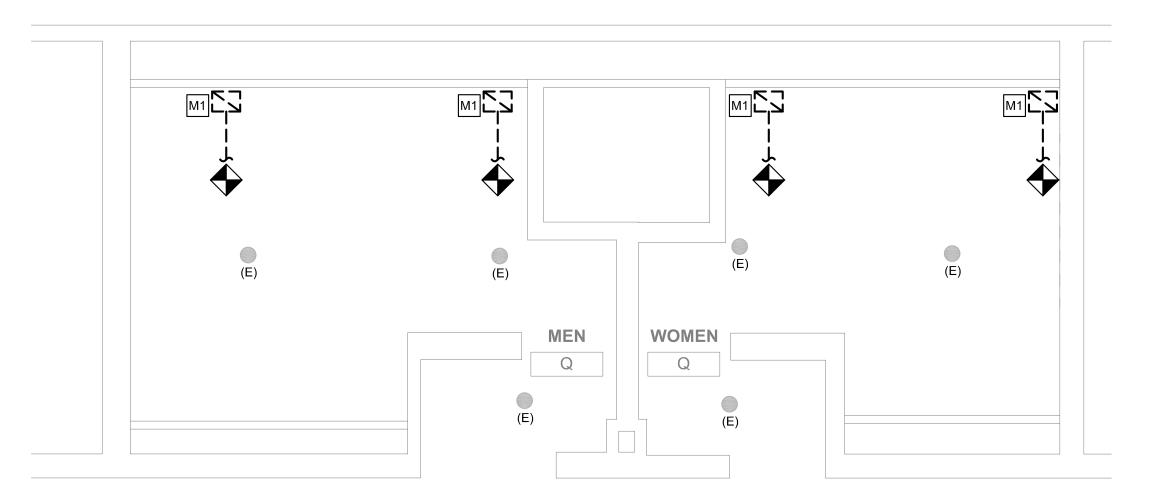
| NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

N.A. Q

REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM Q M608 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM Q M608 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. EXISTING SPRINKLER HEADS SHALL NOT BE RE-INSTALLED. REUSING SPRINKLER HEADS REMOVED WITHIN PROJECT SCOPE IS
- 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- F1 REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125 Ph: 215.427.8700 Fax: 215.427.8752

SUITE 507

Contact: Wing Au

e-mail: wau@csagroup.com



REVISIONS:

Description Date

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM Q** (EXHIBIT)

CW1615 November 25, 2019 DG, WB Drawn by Checked by

M608

1/4" = 1'-0"

KEY PLAN - LEVEL 200 NTS

EXHAUST VENTILATION - TOILET ROOM R							
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)		
TOILET ROOM-PUBLIC	MEN	6	70	420	420		
TOILET ROOM-PUBLIC	WOMEN	5	70	350	350		
NOTES:							

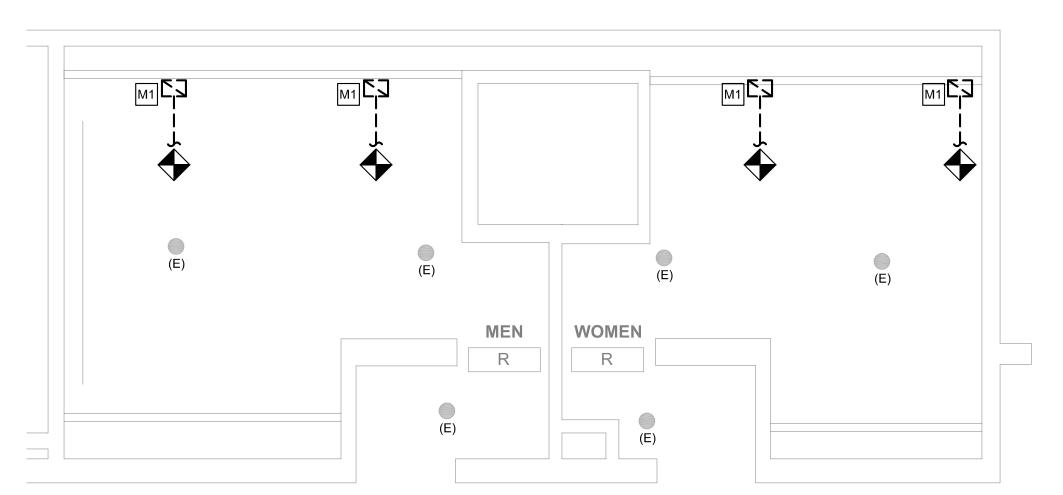
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

EG2 M1 EG2 N.A. 10X6 N.A. 210 200	10X4 EG2 N.A. 10X4
F2 (E) (E) (E)	(E)
MEN R R	

2 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM R

M609 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM R

M609 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- F1 REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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

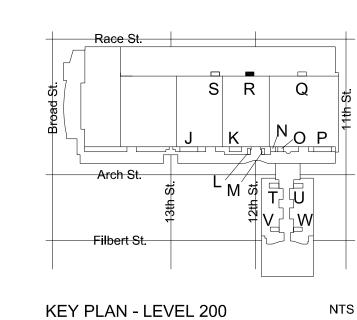


REVISIONS: Description Date

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM R** (EXHIBIT)

CW1615 November 25, 2019 DG, WB Drawn by Checked by



EXHAUST VENTILATION - TOILET ROOM S							
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)		
TOILET ROOM-PUBLIC	MEN	6	70	420	420		
TOILET ROOM-PUBLIC	WOMEN	5	70	350	350		
NOTES:							

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

NEW WORK KEYED NOTES

6. KEYED NOTES MAY NOT APPEAR IN ALL PLAN VIEWS.

GENERAL NOTES

AND LEGENDS.

PROHIBITED.

(M1) 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

REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS

REUSING SPRINKLER HEADS REMOVED WITHIN PROJECT SCOPE IS

SPRINKLER FINISH SHALL BE COORDINATED WITH THE ARCHITECT.

CONTRACTOR SHALL VERIFY ALL SIZES ARE AS SHOWN PRIOR TO START OF WORK. PROVIDE NEW/REPLACE OR MODIFY AS REQUIRED.

2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.

3. EXISTING SPRINKLER HEADS SHALL NOT BE RE-INSTALLED.

4. ALL SPRINKLERS SHALL BE CONCEALED SPRINKLER HEADS.

5. DUCT SIZES AS NOTED ARE FROM HISTORICAL DRAWINGS.

- (M2) PROVIDE NEW CEILING MOUNTED TRANSFER GRILLE.
- (M3) PROVIDE SPACER SECTIONS FOR CONTINUITY OF GRILLE FOR 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
- (F2) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

PRE-DEMOLITION BALANCING NOTE

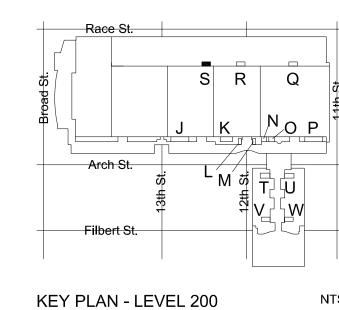
PRIOR TO START OF ANY WORK, MEASURE AND RECORD EXISTING EXHAUST AIRFLOWS THRU EXISTING GRILLES. SUBMIT PRE-DEMOLITION BALANCING REPORT TO ENGINEER PRIOR TO STARTING ANY WORK. VERIFY (E) BALANCING PROVISIONS AND PROVIDE NEW/ADDITIONAL BALANCING DAMPERS, ETC AS REQUIRED TO BALANCE NEW INSTALLATION TO VALUES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

DEMOLITION KEYED NOTES

- M1 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
- 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
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO

- ENTIRE INTERIOR OF PLENUM BOX AND ANY VISIBLE DUCTWORK.
- CONTINUOUS GRILLE APPEARANCE IN SOFFIT. CONTRACTOR TO
- PIPING SHALL BE PROVIDED.

- GRILLE LOCATION.
- GRILLE LOCATION.
- DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



NTS



MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

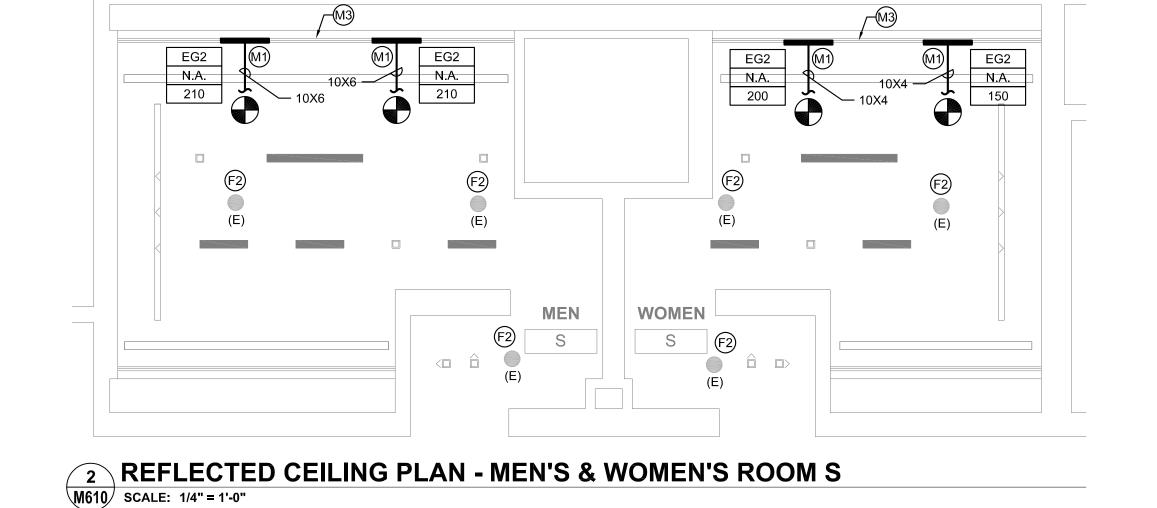
Description Date

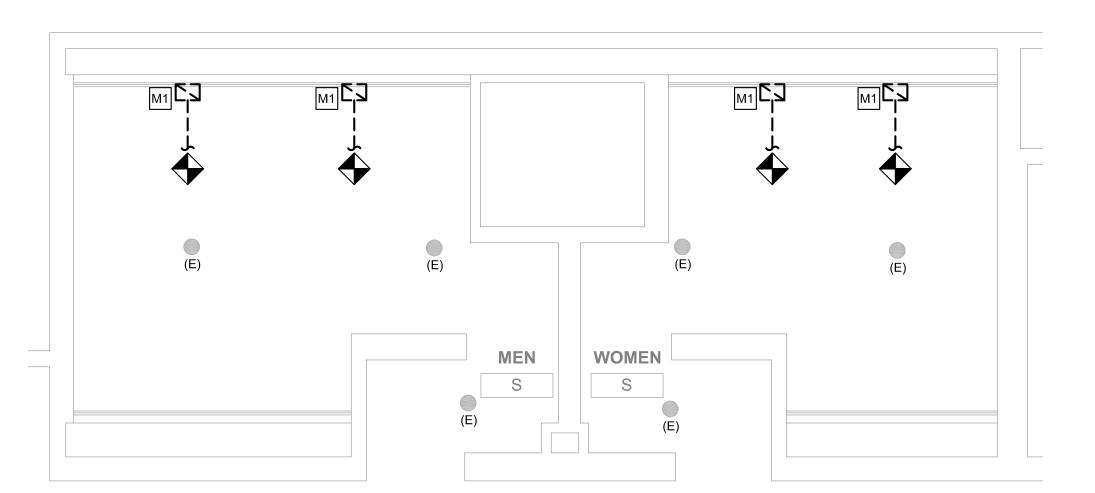
PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -**ROOM S (EXHIBIT)

CW1615 November 25, 2019 DG, WB Drawn by Checked by

1/4" = 1'-0"





DEMO PLAN - MEN'S & WOMEN'S ROOM S

M610 SCALE: 1/4" = 1'-0"

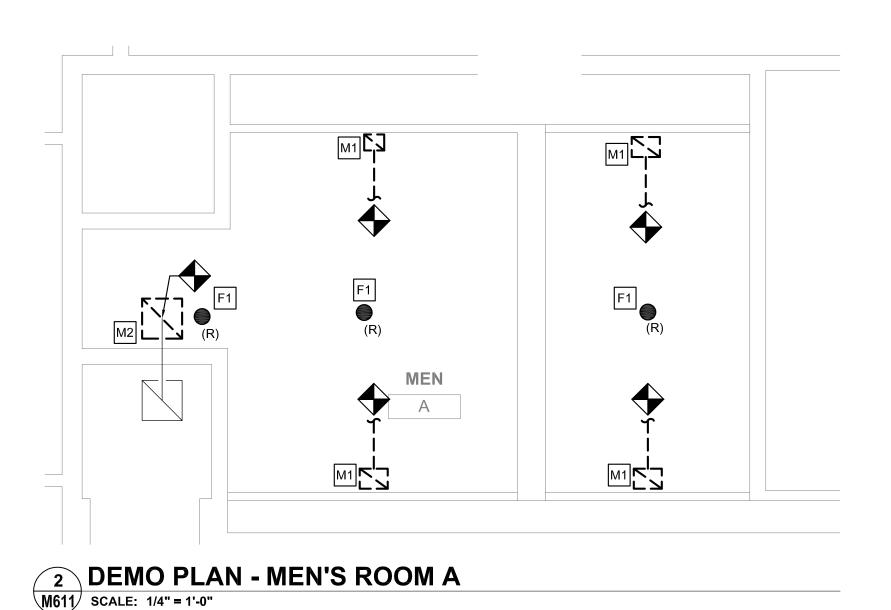
EXHAUST VENTILATION - TOILET ROOM A								
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)			
TOILET ROOM-PUBLIC	MEN	9	70	630	680			
TOILET ROOM-PUBLIC	WOMEN	11	70	770	870			
NOTEC:		· ·	· ·					

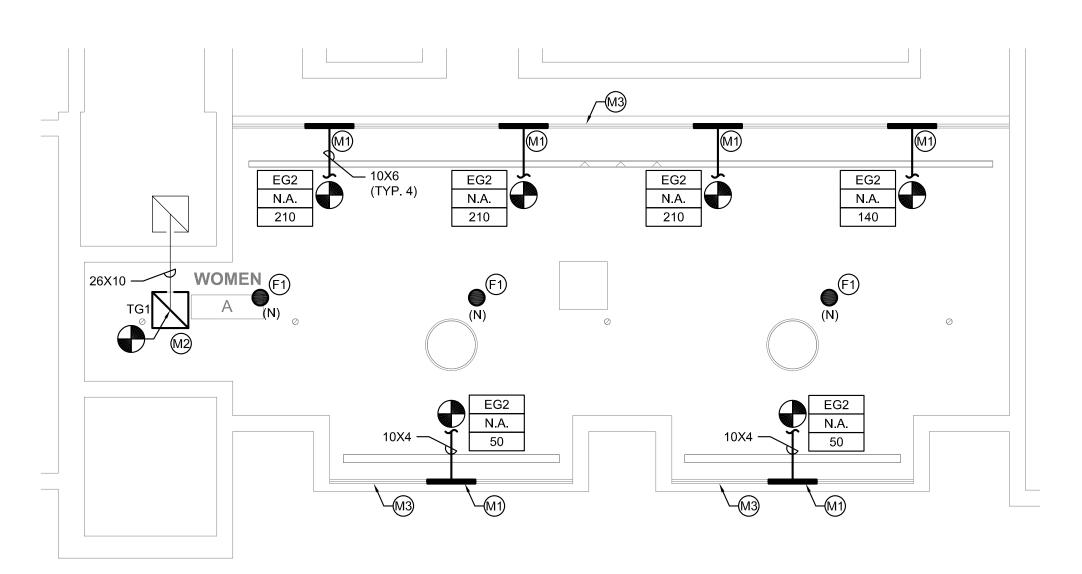
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

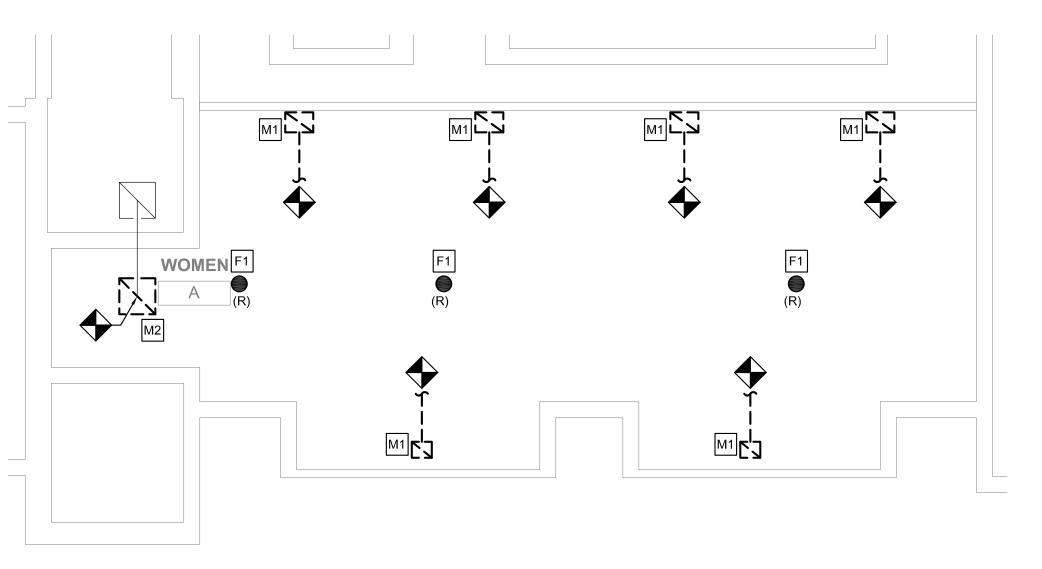
EG2 EG2 N.A. N.A. 26X10 — EG2 N.A. N.A. 210

4 REFLECTED CEILING PLAN - MEN'S ROOM A M611 SCALE: 1/4" = 1'-0"





REFLECTED CEILING PLAN - WOMEN'S ROOM A M611 SCALE: 1/4" = 1'-0"



DEMO PLAN - WOMEN'S ROOM A

M611 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

Arch St.

KEY PLAN - LEVEL 100



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Date Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM A** (SEMINAR)

CW1615 November 25, 2019 DG, WB Checked by

NTS

EXHAUST VENTILATION - TOILET ROOM C									
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)				
TOILET ROOM-PUBLIC	MEN	5	70	350	350				
TOILET ROOM-PUBLIC	WOMEN	3	70	210	210				

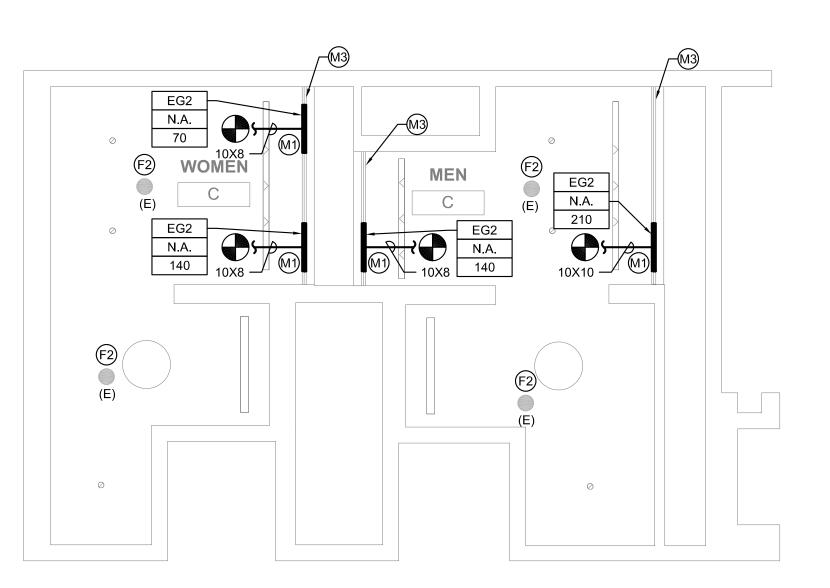
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

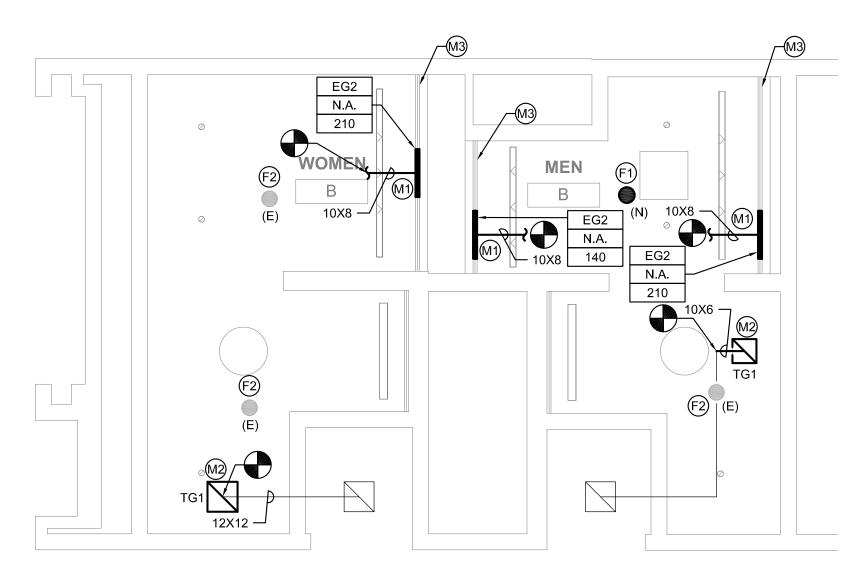
EXHAUST VENTILATION - TOILET ROOM B						
	ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)
	TOILET ROOM-PUBLIC	MEN	5	70	350	350
	TOILET ROOM-PUBLIC	WOMEN	3	70	210	210
	NOTES:		_			

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

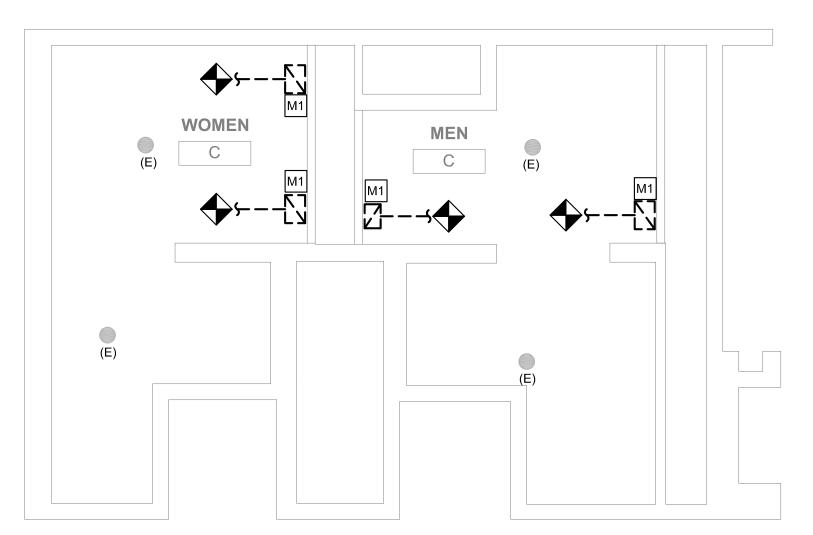
2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.



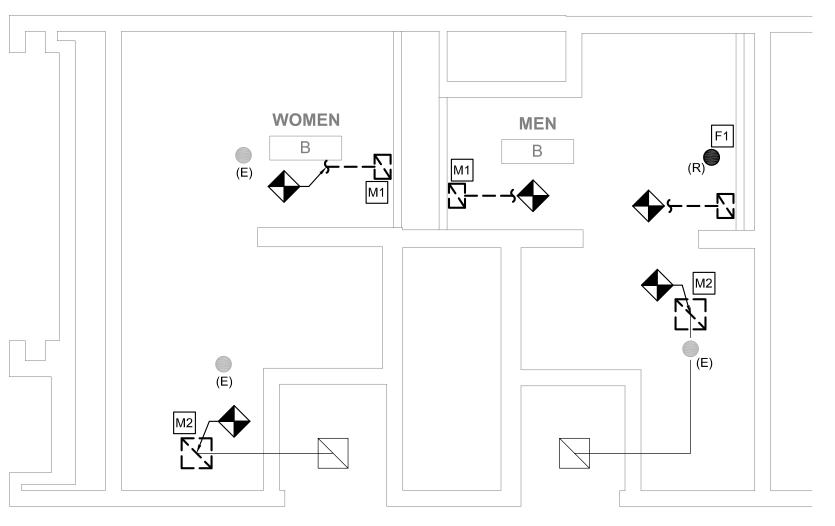
4 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM C M612 SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM B M612 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM C M612 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM B M612 SCALE: 1/4" = 1'-0"



- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. EXISTING SPRINKLER HEADS SHALL NOT BE RE-INSTALLED. REUSING SPRINKLER HEADS REMOVED WITHIN PROJECT SCOPE IS
- 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

KEY PLAN - LEVEL 100



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 193 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP

1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125 Ph: 215.427.8700

SUITE 507

Fax: 215.427.8752

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



REVISIONS: Date Description

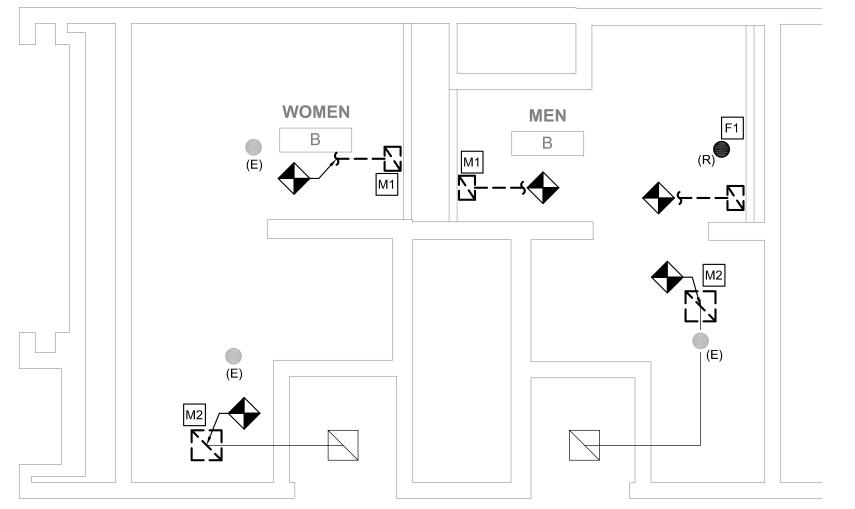
PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -**ROOMS B, C (SEMINAR)

CW1615 November 25, 2019 DG, WB

NTS

M612



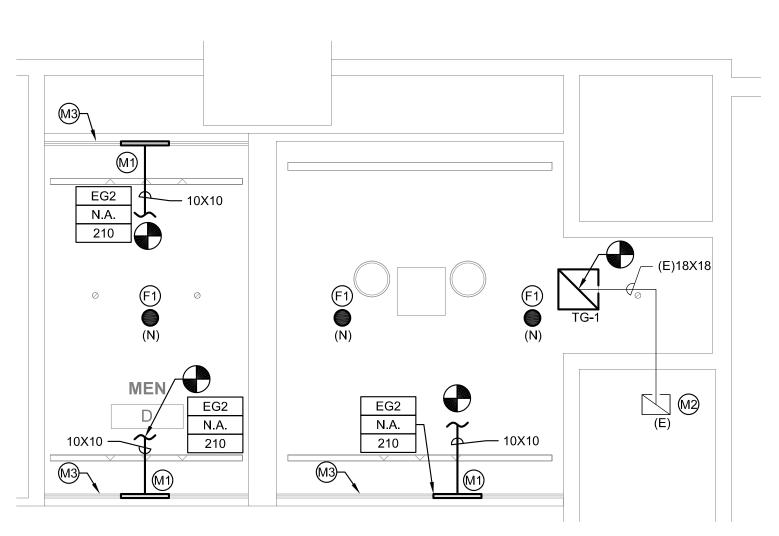
EXHAUST VENTILATION - TOILET ROOM D								
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)			
TOILET ROOM-PUBLIC	MEN	9	70	630	630			
TOILET ROOM-PUBLIC	WOMEN	11	70	770	870			
NOTES:								

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

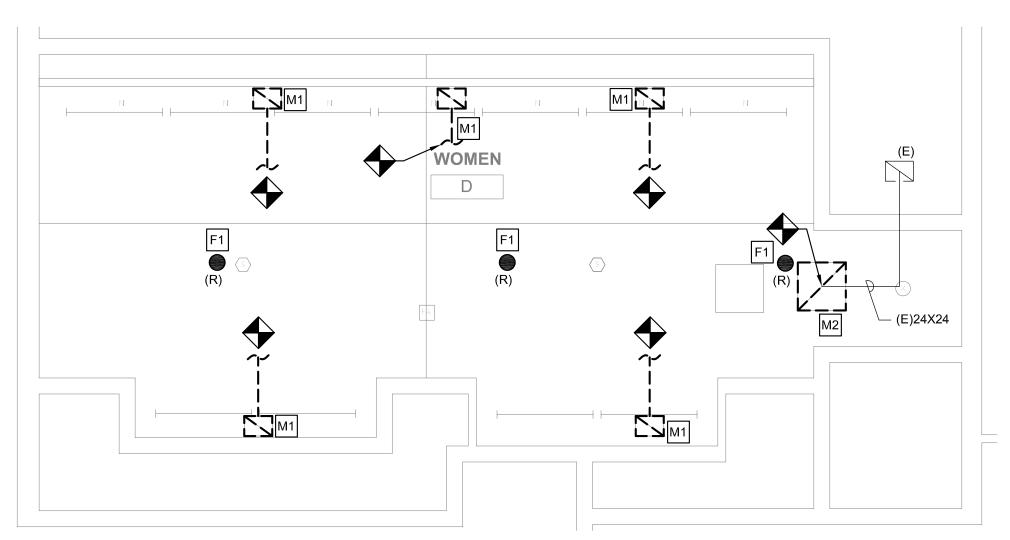
M3-\		M) 12X8	M1	
	EG2 N.A. 210	EG2 N.A. 280	EG2 N.A. 280	(E)
	(N)	(N) (F1) (N)	(N) (N) (MZ)TG-1 (E)24X24
	EG2 N.A. 50	EG2 N.A. 50	10X10	
	(M3)—			

4 REFLECTED CEILING PLAN - WOMEN'S ROOM D
M613 SCALE: 1/4" = 1'-0"



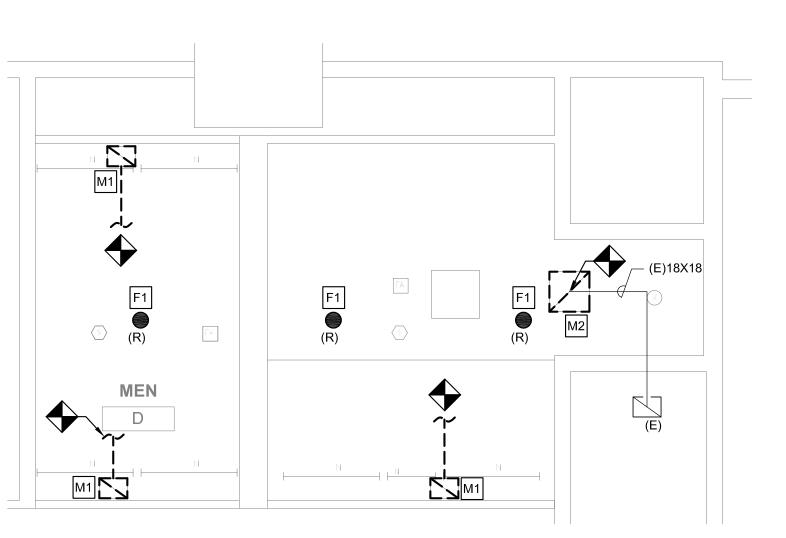
REFLECTED CEILING PLAN - MEN'S ROOM D

M613 SCALE: 1/4" = 1'-0"



DEMO PLAN - WOMEN'S ROOM D

M613 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S ROOM D M613 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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.
- 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.
- EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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.
- 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

KEY PLAN - LEVEL 100



MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 193
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER
RESTROOM RENOVATIONS

REFLECTED CEILING PLAN -ROOM D (SEMINAR)

Project number CW1615

Date November 25, 2019

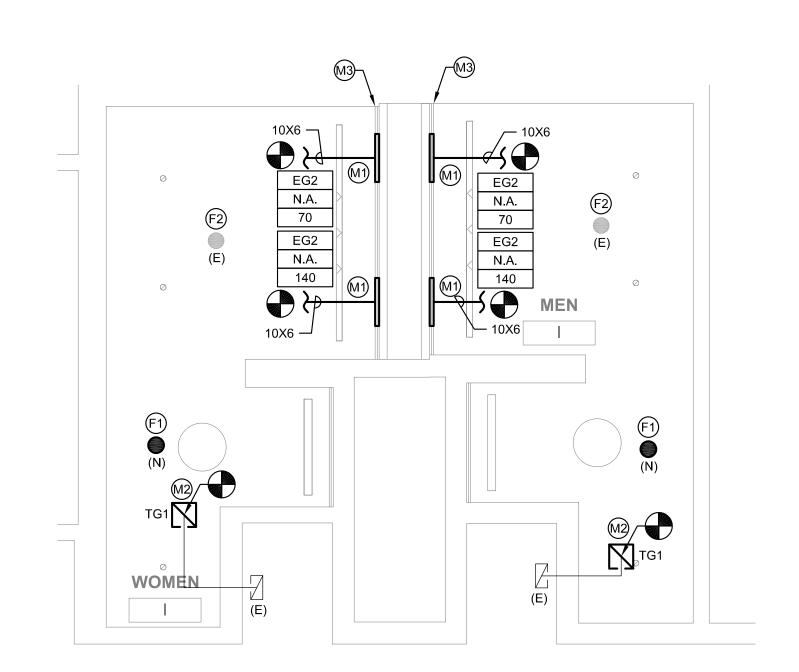
Drawn by DG, WB

M613

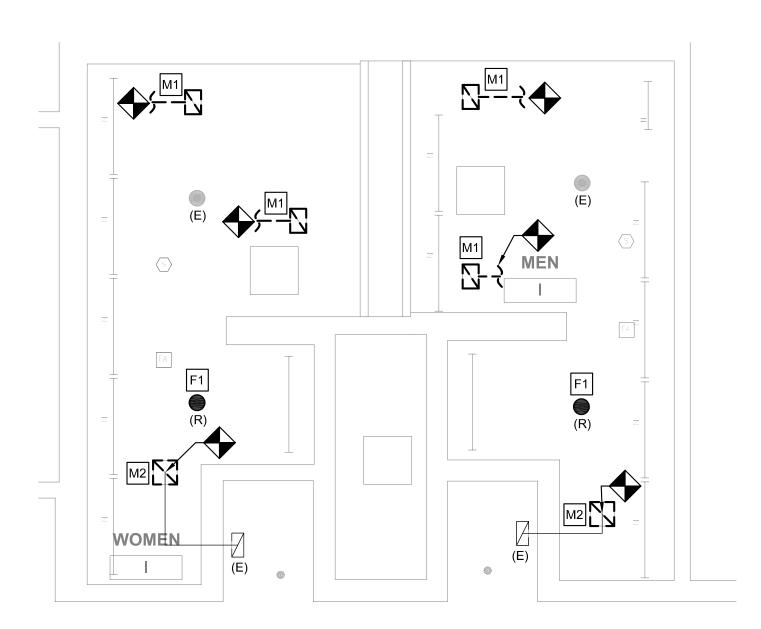
le 1/4" = 1'-0"

7 M61

NTS



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM I M614 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM I M614 SCALE: 1/4" = 1'-0"

EXHAUST VENTILATION - TOILET ROOM I EXHAUST AIR TOTAL NUMBER EXHAUST AIR EXHAUST AIR ROOM (CFM PER **ROOM TYPE** OF WC'S AND (CFM REQUIRED) (CFM PROVIDED) NAME FIXTURE) UR'S TOILET ROOM-PUBLIC MEN 70 210 210 TOILET ROOM-PUBLIC | WOMEN 70 210 210 NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

SUITE 507

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



REVISIONS: Date Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM I**

(SEMINAR)

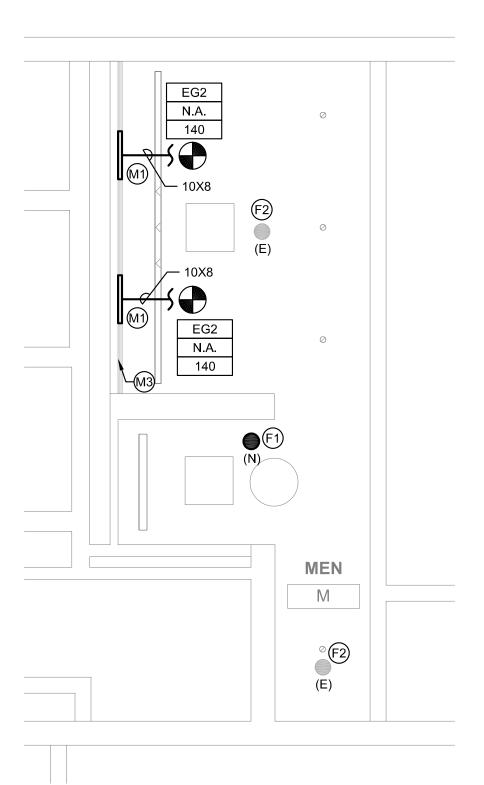
CW1615 Project number November 25, 2019 DG, WB Drawn by

Checked by M614

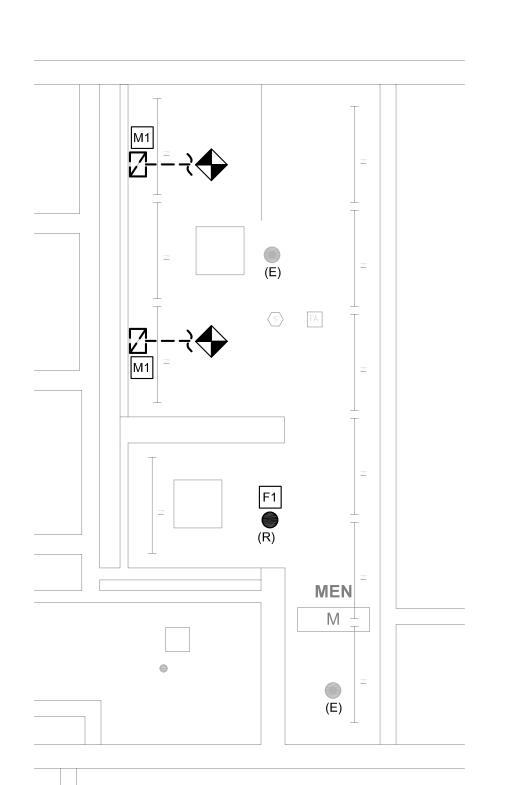
1/4" = 1'-0"

Arch St. NTS

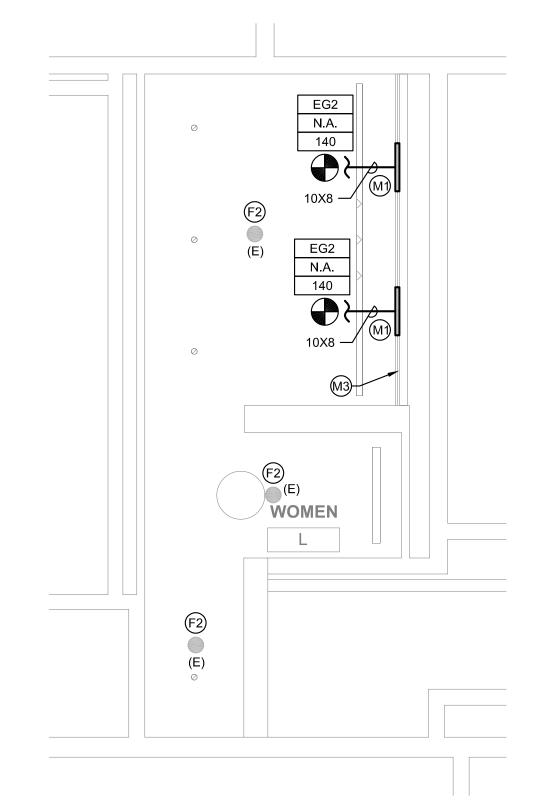
KEY PLAN - LEVEL 100



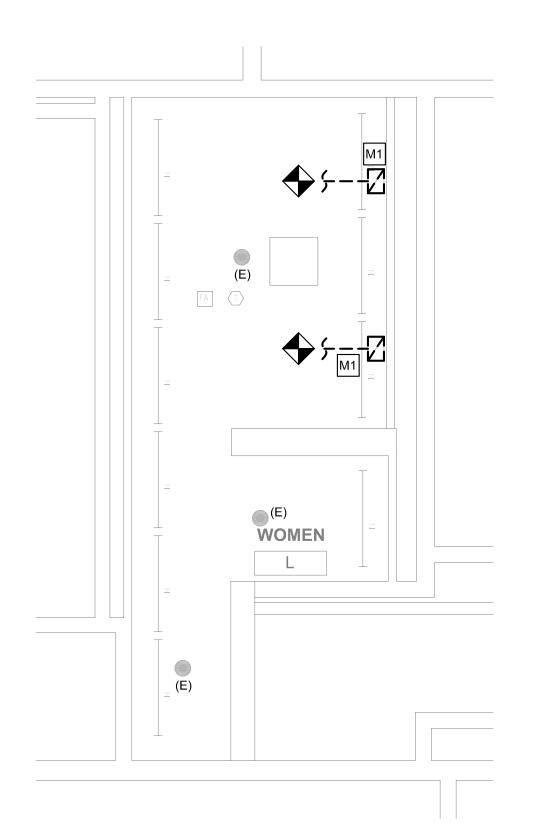
REFLECTED CEILING PLAN - MEN'S ROOM M M615 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S ROOM M M615 SCALE: 1/4" = 1'-0"



3 REFLECTED CEILING PLAN - WOMEN'S ROOM L M615 SCALE: 1/4" = 1'-0"



DEMO PLAN - WOMEN'S ROOM L M615 SCALE: 1/4" = 1'-0"

EXHAUST VENTILATION - TOILET ROOM L

ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)
LET ROOM-PUBLIC	WOMEN	4	70	280	280

NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

EXHAUST VENTILATION - TOILET ROOM M							
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)		
TOILET ROOM-PUBLIC	MEN	4	70	280	280		
NOTES:				-			

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.

· · · · · CONVERSE

MEP ENGINEERS:

Contact: Kevin Sultanik

CSA GROUP

Ph: 215.427.8700

Fax: 215.427.8752

Contact: Wing Au

REVISIONS:

PENNSYLVANIA ONVENTION CENTER

Description

Date

SUITE 507

WINKLER ARCHITECTURE

331 MONTGOMERY AVE BALA CYNWYD, PA 19144

ARORA°

Arora Engineers, Inc. West Chester Pike | Chadds Ford, PA 193

(610) 459-7900 | F (610) 459-7950 | aroraengineers.co

e-mail: ksultanik@aroraengineers.com

1341 NORTH DELAWARE AVENUE,

STRUCTURAL ENGINEERS:

PHILADELPHIA, PA 19125

e-mail: wau@csagroup.com

- 2. REFER TO DRAWING M200 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

- (M1) PROVIDE NEW CEILING MOUNTED LINEAR SLOT GRILLE FOR TOILET PROVIDE TRANSITION FROM EXISTING TO NEW. RE-BALANCE
- (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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

PRE-DEMOLITION BALANCING NOTE

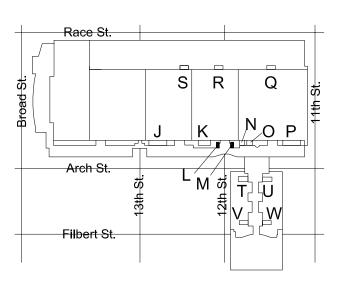
PRIOR TO START OF ANY WORK, MEASURE AND RECORD EXISTING EXHAUST AIRFLOWS THRU EXISTING GRILLES. SUBMIT PRE-DEMOLITION BALANCING REPORT TO ENGINEER PRIOR TO STARTING ANY WORK. VERIFY (E) BALANCING PROVISIONS AND PROVIDE NEW/ADDITIONAL BALANCING DAMPERS, ETC AS REQUIRED TO BALANCE NEW INSTALLATION TO VALUES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

M1 REMOVE EXISTING EXHAUST GRILLE. PREPARE DUCT FOR

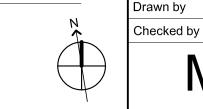
- ROOM EXHAUST. CONNECT TO EXISTING EXHAUST DUCTWORK. EXHAUST SYSTEM AS NOTED ON DRAWING AND IN ACCORDANCE WITH 2018 IMC. WHERE NOTED BY ARCHITECT, GRILLE COLOR TO MATCH SOFFIT COLOR. CONTRACTOR TO PAINT FLAT BLACK THE ENTIRE INTERIOR OF PLENUM BOX AND ANY VISIBLE DUCTWORK.
- (M2) PROVIDE NEW CEILING MOUNTED TRANSFER GRILLE.

DEMOLITION KEYED NOTES

- 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



KEY PLAN - LEVEL 200



NTS

CW1615 Project number November 25, 2019 DG, WB

REFLECTED

CEILING PLAN -

ROOMS L, M

(SEMINAR)

M615

EXHAUST VENTILATION - TOILET ROOM T						
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)	
TOILET ROOM-PUBLIC	MEN	9	70	630	680	
TOILET ROOM-PUBLIC	WOMEN	9	70	630	680	
NOTES						

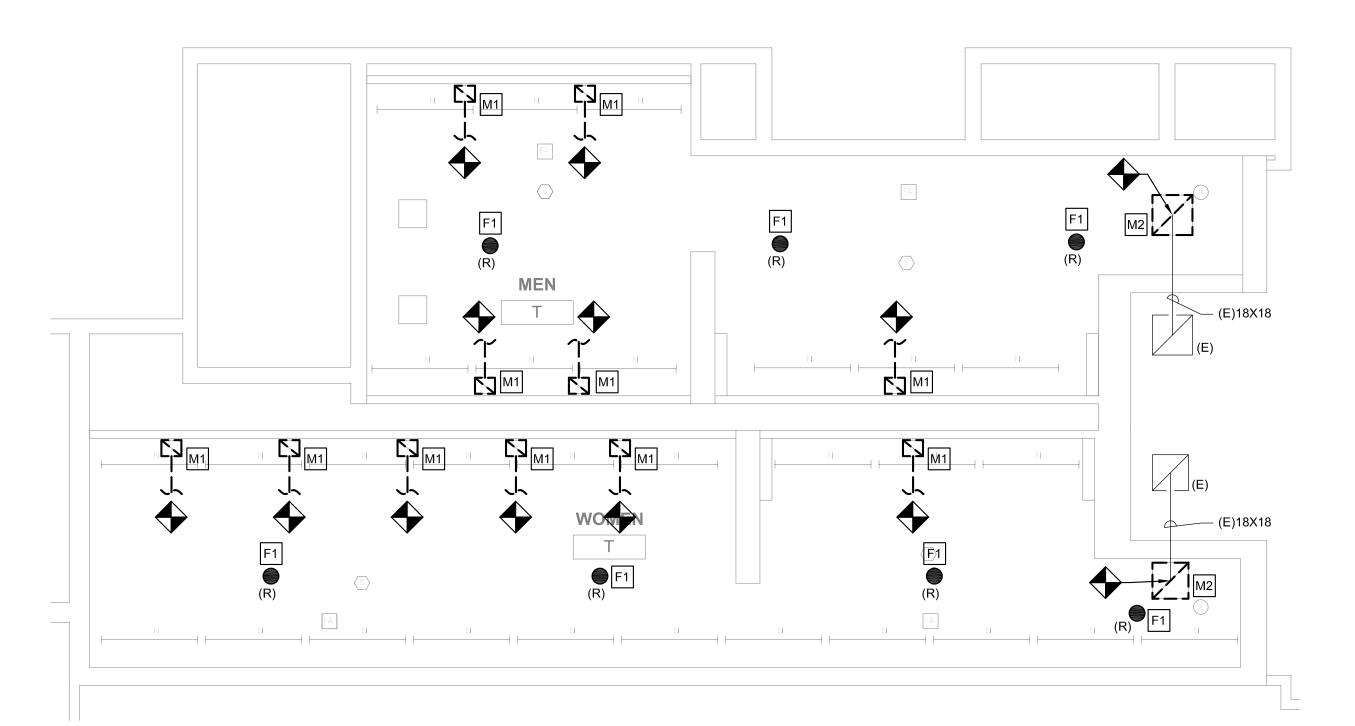
1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

EG2 EG2 N.A. △ N.A. - 10X8 ^ (TYP OF 4) 150 200 EG2 N.A. EG2 N.A. N.A. 50 EG2 N.A. EG2 EG2 N.A. N.A. N.A. — (E)18X18

REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM T

M616 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM T

M616 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. -West Chester Pike I Chadds Ford, PA 193

P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP

SUITE 507 PHILADELPHIA, PA 19125

1341 NORTH DELAWARE AVENUE,

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS: Description Date

PENNSYLVANIA ONVENTION CENTER

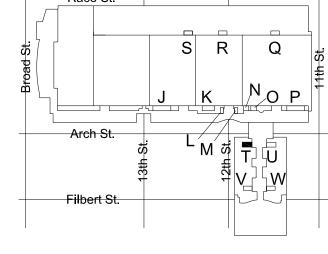
REFLECTED **CEILING PLAN -ROOM T** (SEMINAR)

CW1615 November 25, 2019 DG, WB Drawn by Checked by

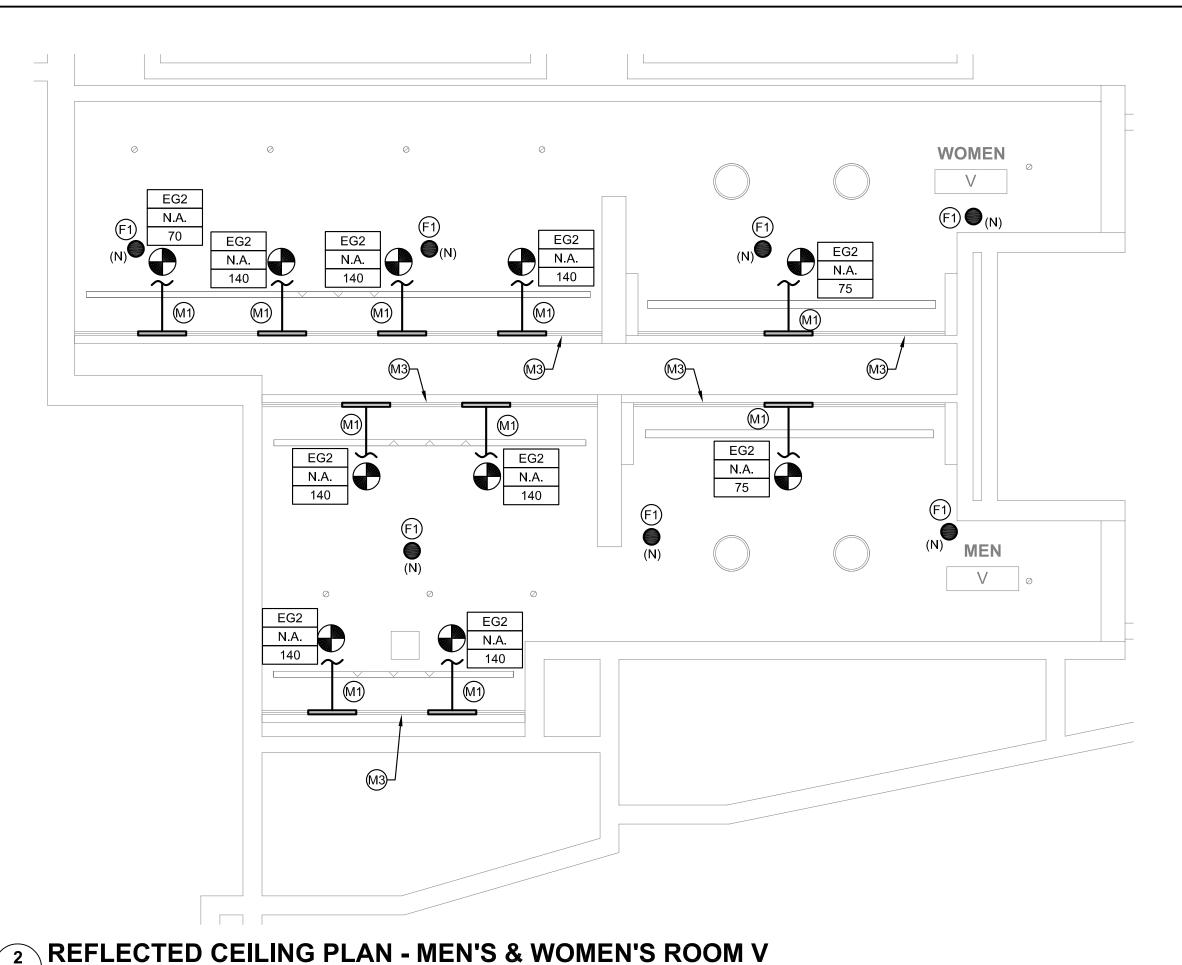
NTS

M616

1/4" = 1'-0"



KEY PLAN - LEVEL 200



M618 SCALE: 1/4" = 1'-0"

DEMO PLAN - MEN'S & WOMEN'S ROOM V

M618 SCALE: 1/4" = 1'-0"



EXHAUST VENTILATION - TOILET ROOM V EXHAUST AIR TOTAL NUMBER EXHAUST AIR EXHAUST AIR ROOM (CFM PER **ROOM TYPE** OF WC'S AND (CFM REQUIRED) (CFM PROVIDED) NAME FIXTURE) UR'S TOILET ROOM-PUBLIC MEN 70 560 635 TOILET ROOM-PUBLIC WOMEN 70 490 565

NOTES: 1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC, BACK TO EXISTING ELBOW OR TEE, REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 193: 6 (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE,

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

SUITE 507

Contact: Wing Au

e-mail: wau@csagroup.com



REVISIONS: Date Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM V** (SEMINAR)

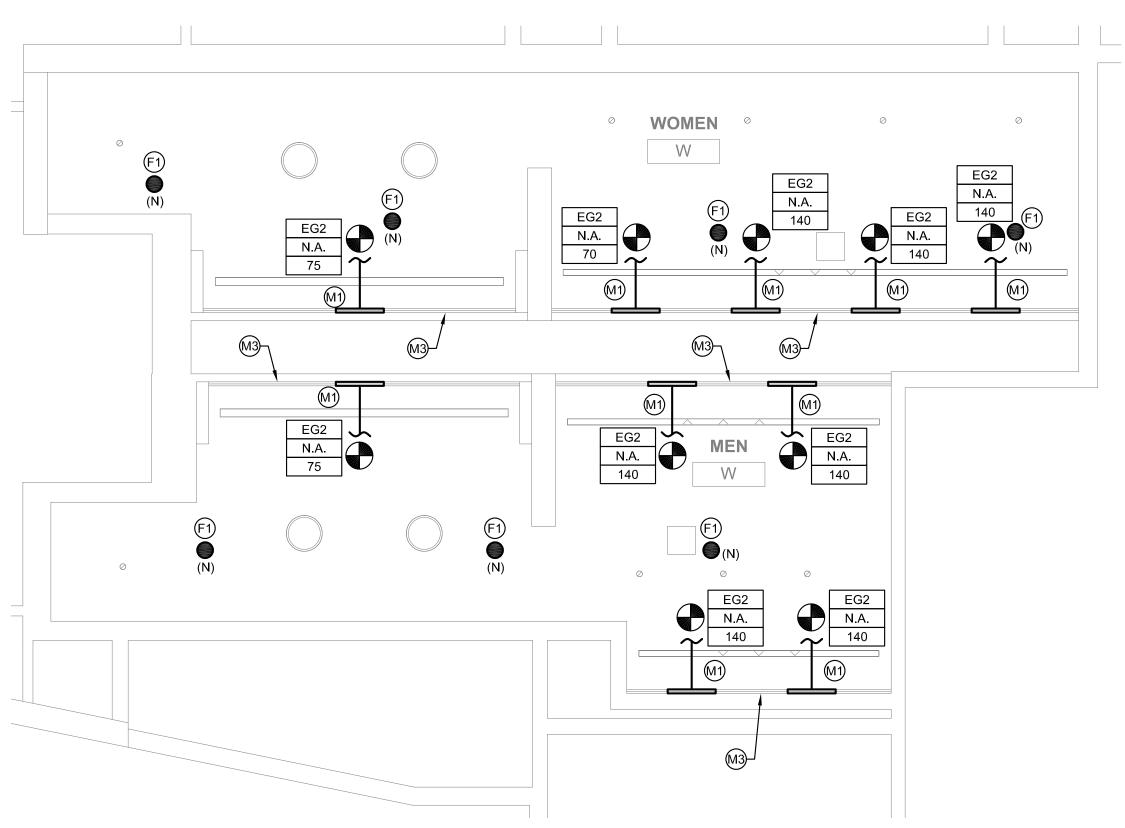
CW1615 November 25, 2019 DG, WB

M618

1/4" = 1'-0"

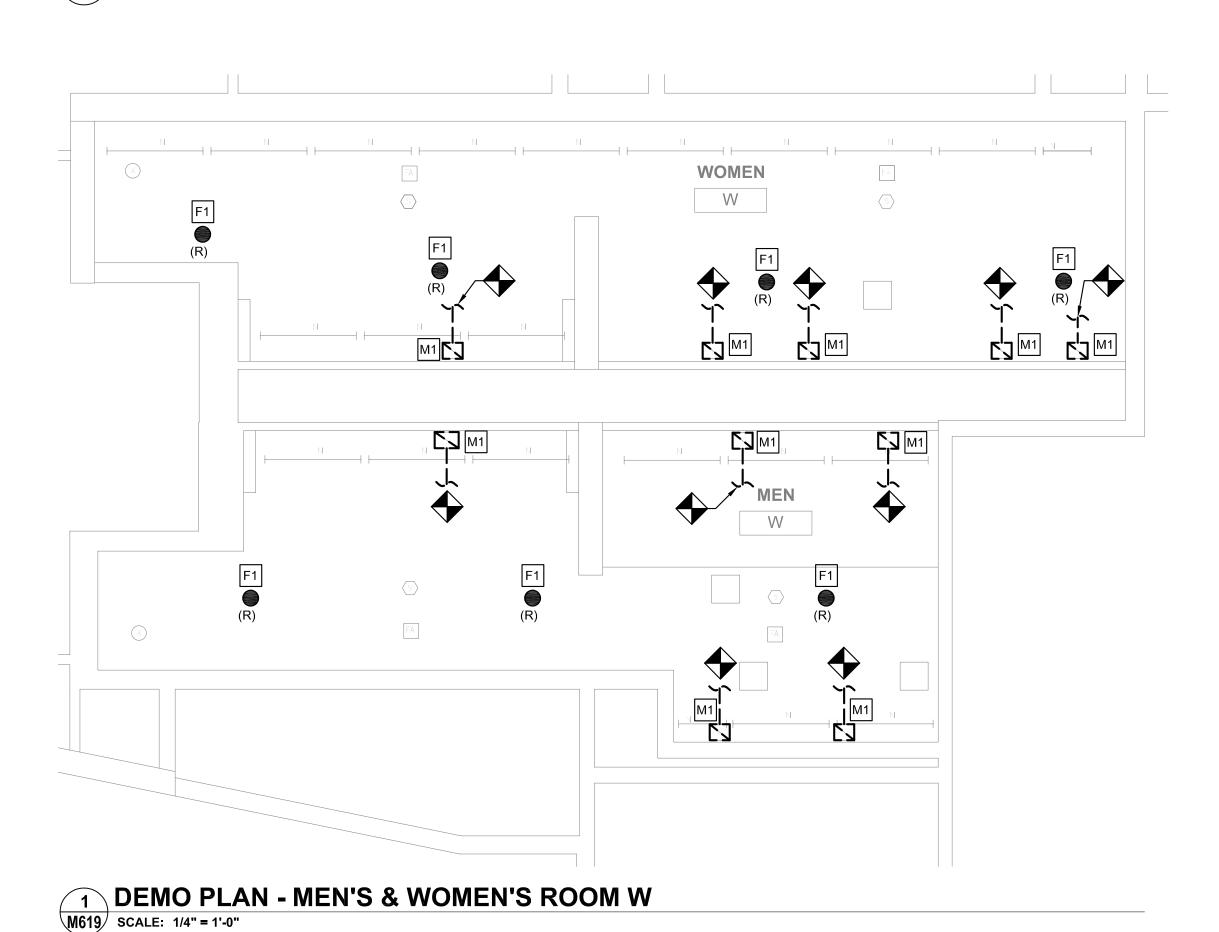
S R Filbert St. NTS

KEY PLAN - LEVEL 200



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM W

M619 SCALE: 1/4" = 1'-0"



EXHAUST VENTILATION - TOILET ROOM W EXHAUST AIR TOTAL NUMBER EXHAUST AIR EXHAUST AIR ROOM (CFM PER **ROOM TYPE** OF WC'S AND (CFM REQUIRED) (CFM PROVIDED) NAME FIXTURE) UR'S TOILET ROOM-PUBLIC MEN 70 560 635 TOILET ROOM-PUBLIC | WOMEN 70 490 565 NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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.
- 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.
- EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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.
- 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.
- F1 REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



61 Wilmington-West Chester Pike | Chadds Ford, PA 193 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Arora Engineers, Inc.

· · · · · CONVERSE

MEP ENGINEERS:

: WINKLER : ARCHITECTURE

331 MONTGOMERY AVE BALA CYNWYD, PA 19144

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

STRUCTURAL ENGINEERS:

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER

REFLECTED CEILING PLAN -ROOM W (SEMINAR)

oject number

NTS

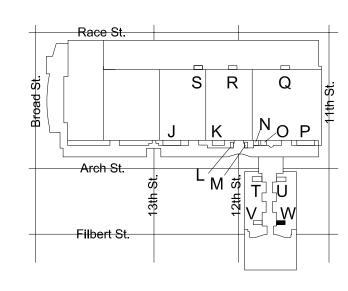
Project number CW1615

Date November 25, 2019

Drawn by DG, WB

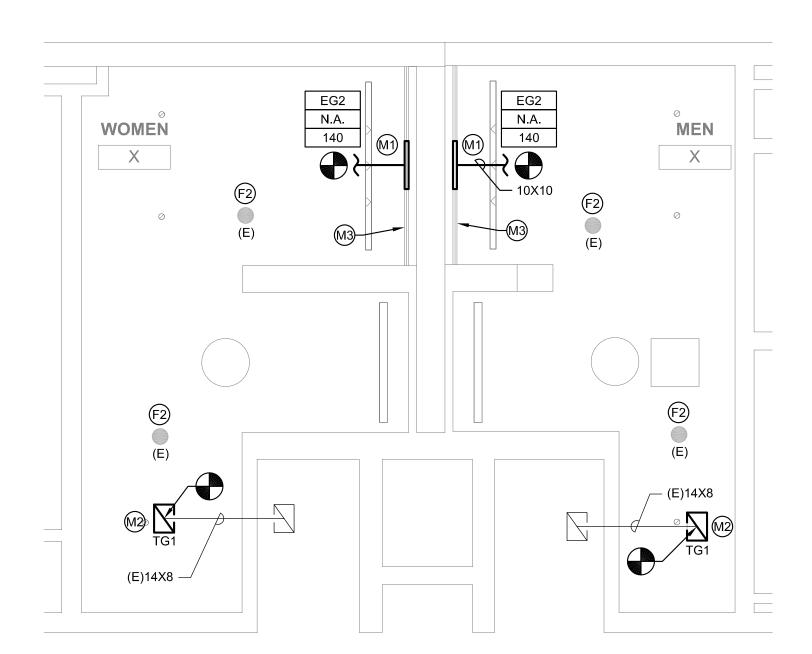
M619

1/4" = 1'-0"

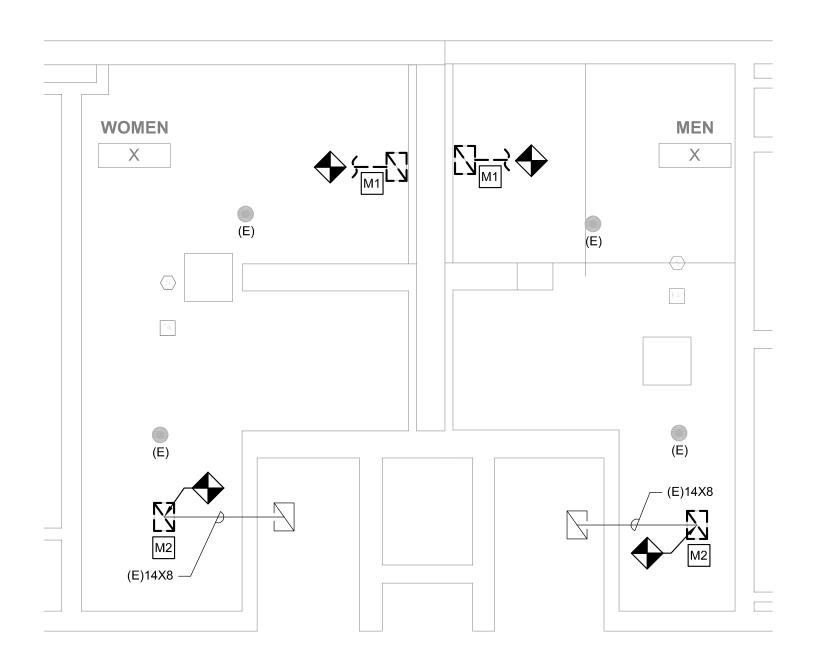


KEY PLAN - LEVEL 200

0 2' 4' 8'



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM X M620 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM X M620 SCALE: 1/4" = 1'-0"

EXHAUST VENTILATION - TOILET ROOM X EXHAUST AIR TOTAL NUMBER EXHAUST AIR EXHAUST AIR ROOM (CFM PER **ROOM TYPE** OF WC'S AND (CFM REQUIRED) (CFM PROVIDED) NAME FIXTURE) UR'S TOILET ROOM-PUBLIC MEN 70 140 140 TOILET ROOM-PUBLIC | WOMEN 70 140 140 NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



MEP ENGINEERS:

· · · · · CONVERSE

WINKLER ARCHITECTURE

331 MONTGOMERY AVE BALA CYNWYD, PA 19144

Arora Engineers, Inc.

(610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Date Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM X**

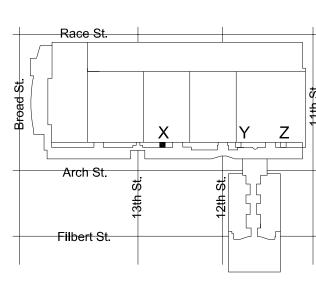
(SEMINAR) Project number

NTS

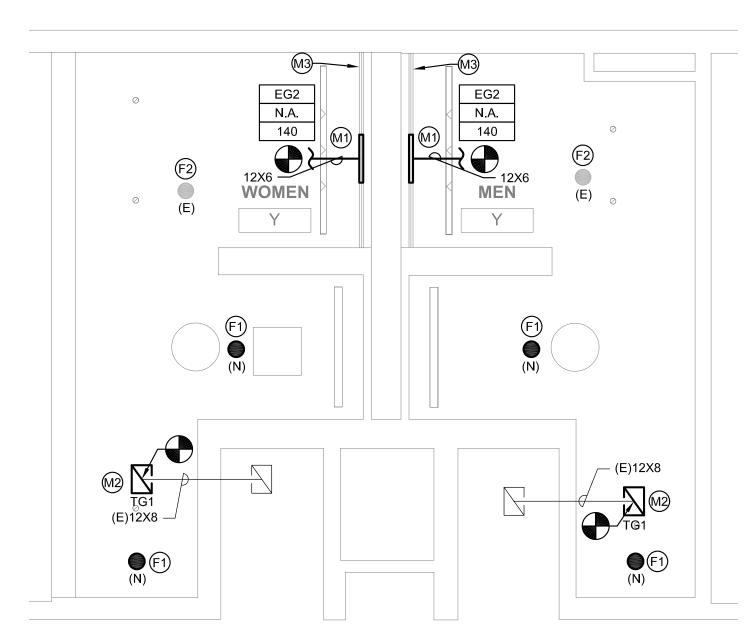
CW1615 November 25, 2019 DG, WB Drawn by Checked by

M620

1/4" = 1'-0"

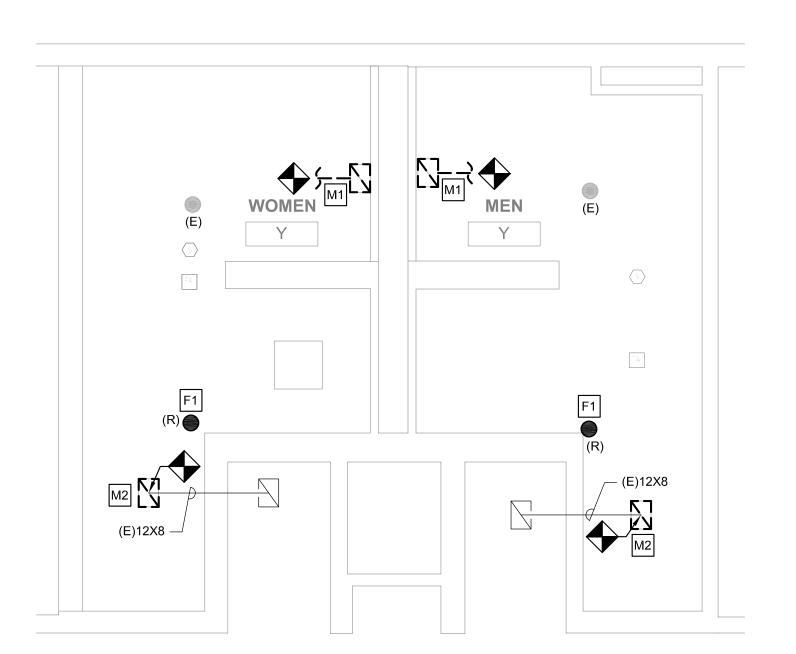


KEY PLAN - LEVEL 300



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM Y

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



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Y

M621 SCALE: 1/4" = 1'-0"

EXHAUST VENTILATION - TOILET ROOM Y EXHAUST AIR TOTAL NUMBER EXHAUST AIR EXHAUST AIR ROOM (CFM PER **ROOM TYPE** OF WC'S AND (CFM REQUIRED) (CFM PROVIDED) NAME FIXTURE) UR'S TOILET ROOM-PUBLIC MEN 70 140 140 TOILET ROOM-PUBLIC | WOMEN 70 140 140

NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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.
- 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.
- EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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.
- 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.



· · · · · CONVERSE

: WINKLER : ARCHITECTURE

331 MONTGOMERY AVE BALA CYNWYD, PA 19144

Arora Engineers, Inc.

61 Wilmington-West Chester Pike | Chadds Ford, PA 193 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:

CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER
RESTROOM RENOVATIONS

REFLECTED CEILING PLAN -ROOM Y (SEMINAR)

CW1615

Project number

Date Novem

Date November 25, 2019
Drawn by DG, WB
Checked by DM

M621

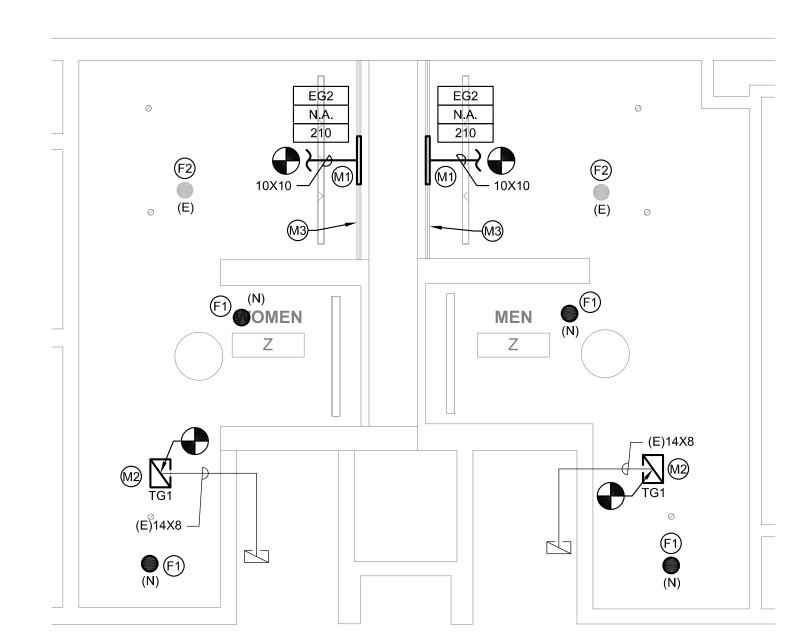
Scale 1/4" = 1'-0"

Race St.

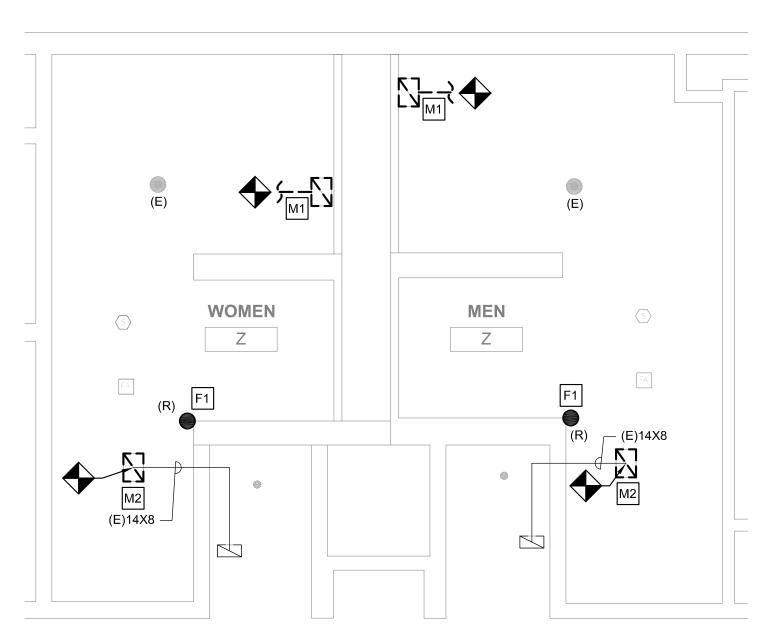
X
Y
Z
Arch St.

Fillbert St.

KEY PLAN - LEVEL 300



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM Z
M622 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM Z

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

EXHAUST VENTILATION - TOILET ROOM Z EXHAUST AIR TOTAL NUMBER EXHAUST AIR EXHAUST AIR ROOM (CFM PER **ROOM TYPE** OF WC'S AND (CFM REQUIRED) (CFM PROVIDED) NAME FIXTURE) UR'S TOILET ROOM-PUBLIC MEN 70 210 210 TOILET ROOM-PUBLIC | WOMEN 70 210 210 NOTES:

S:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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.
- 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.
- 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.
- EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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.
- 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.
- REMOVE SPRINKLER HEAD. REMOVE EXISTING BRANCH LINES, FITTINGS, ETC. BACK TO EXISTING ELBOW OR TEE. REUSE AS MUCH OF THE EXISTING MAINS AS POSSIBLE. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

Arch St.



MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 193
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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





REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER
RESTROOM RENOVATIONS

REFLECTED CEILING PLAN -ROOM Z (SEMINAR)

Project number CW1615

Date November 25, 2019
Drawn by DG, WB
Checked by DM

M622

e 1/4" = 1'-0"

KEY PLAN - LEVEL 300

NTS

0 2' 4' 8'

EXHAUST VENTILATION - TOILET ROOM A1					
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)
TOILET ROOM-PUBLIC	MEN	10	70	700	800
TOILET ROOM-PUBLIC	WOMEN	10	70	700	800
NOTES:					

| NOTES:

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

N.A. 140



EG2 N.A. 200

EG2 N.A.

EG2 N.A. 210

A1

EG2 N.A.

50

EG2 N.A. 200

EG2 N.A. 150

A1



DEMO PLAN - MEN'S & WOMEN'S ROOM A1

M623 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. EXISTING SPRINKLER HEADS SHALL NOT BE RE-INSTALLED. REUSING SPRINKLER HEADS REMOVED WITHIN PROJECT SCOPE IS
- 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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 M200, DETAIL 1 FOR TYPICAL MODIFICATION.

KEY PLAN - BALLROOM LEVEL



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 1931 2 (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125 Ph: 215.427.8700

Fax: 215.427.8752

SUITE 507

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



REVISIONS: Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -ROOM A1** (BALLROOM)

CW1615 Project number November 25, 2019 DG, WB

Checked by M623

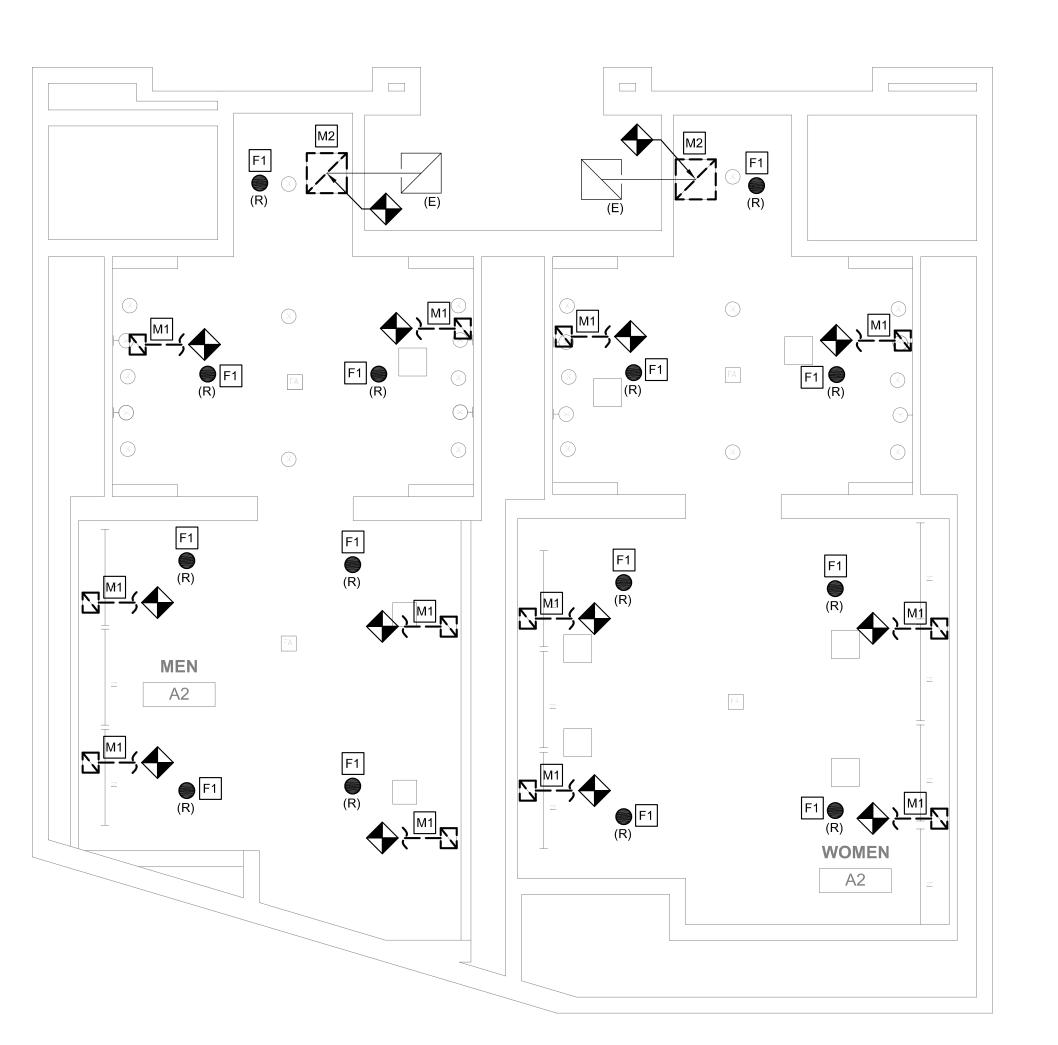
EXHAUST VENTILATION - TOILET ROOM A2						
ROOM TYPE	ROOM NAME	TOTAL NUMBER OF WC'S AND UR'S	EXHAUST AIR (CFM PER FIXTURE)	EXHAUST AIR (CFM REQUIRED)	EXHAUST AIR (CFM PROVIDED)	
TOILET ROOM-PUBLIC	MEN	10	70	700	800	
TOILET ROOM-PUBLIC	WOMEN	10	70	700	800	
NOTES:						

1. EXHAUST PROVIDED PER SECTION 403 OF THE 2015 IMC (PER PA UCC).

2. EXHAUST RUNS CONTINUOUSLY DURING OCCUPIED PERIOD.

EG2 N.A. 50 EG2 N.A. 200 EG2 N.A. 210 EG2 N.A. 140 A2 EG2 N.A. 210 EG2 N.A. 150 N.A. EG2 N.A. 150 A2

REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM A2 M624 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM A2 M624 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 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

- (M1) 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) EXISTING SPRINKLER HEAD SHALL REMAIN UNLESS SPRINKLER HEAD IS REMOVED. WHERE SPRINKLER HEAD IS REMOVED, CONTRACTOR SHALL REUSE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE AND PROVIDE NEW CONCEALED SPRINKLER HEAD. REFER TO DRAWING SHEET M200, DETAIL 1 FOR TYPICAL MODIFICATION.

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

- M1 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 M200, DETAIL 1 FOR TYPICAL MODIFICATION.

KEY PLAN - BALLROOM LEVEL



MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 1931 2 (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



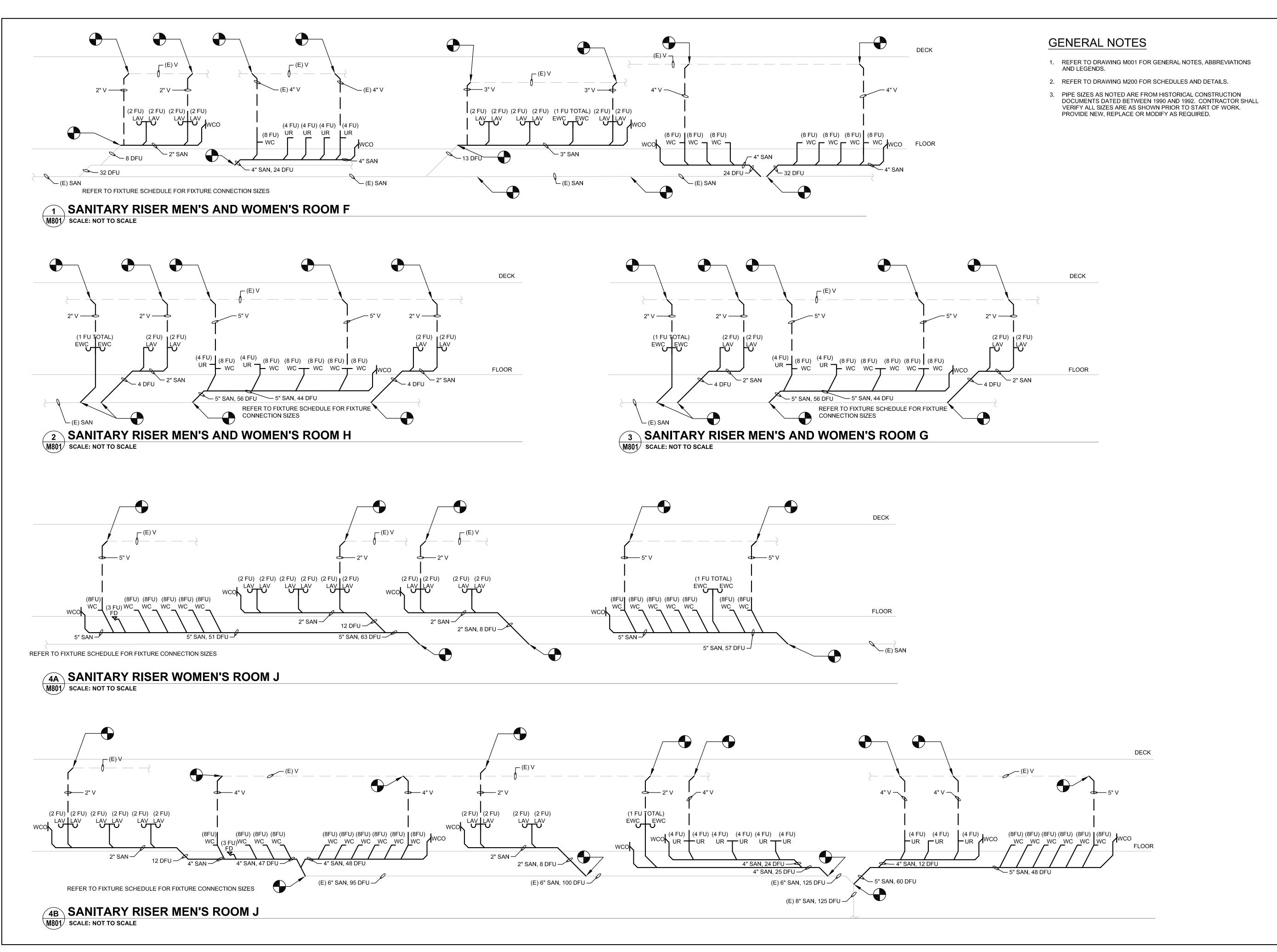
REVISIONS: Description

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -**ROOM A2 (BALLROOM)

CW1615 November 25, 2019 DG, WB Checked by

M624



CONVERSE
WINKLER
ARCHITECTURE
331 MONTGOMERY AVE
BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 193
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS:

No. Description

PENNSYLVANIA ONVENTION CENTER

> PLUMBING RISERS

Project number CW1615

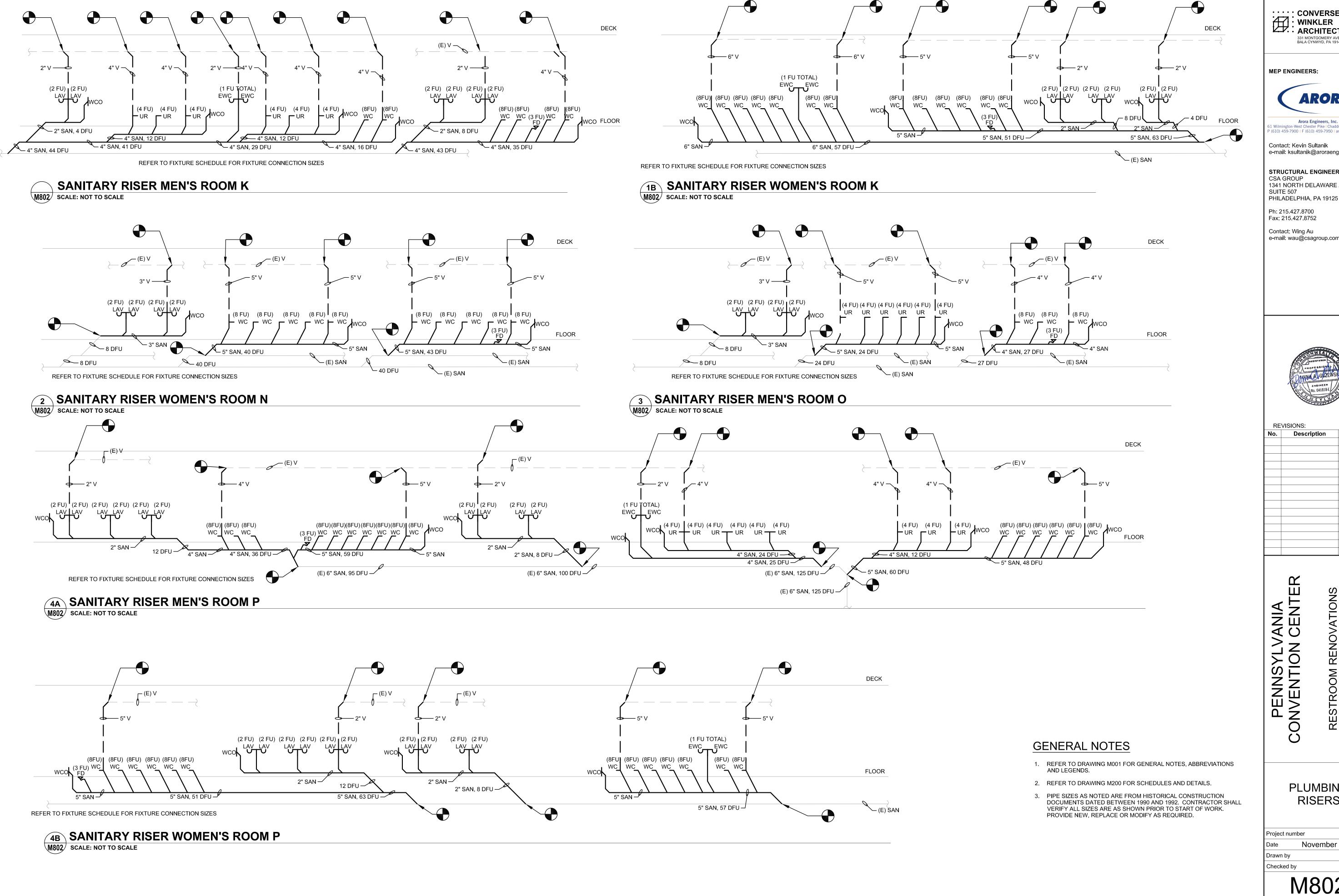
Date November 25, 2019

Drawn by DG

Checked by DM

M801

Scale



: :::: : CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. 51 Wilmington-West Chester Pike | Chadds Ford, PA 193 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cc

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

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



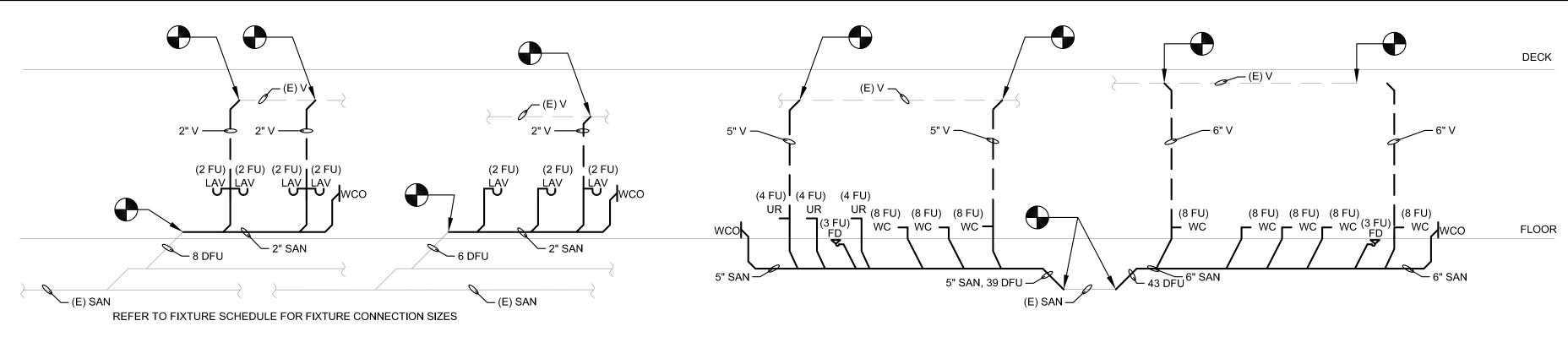
REVISIONS: Description

PENNSYLVANIA ONVENTION CENTER

PLUMBING RISERS

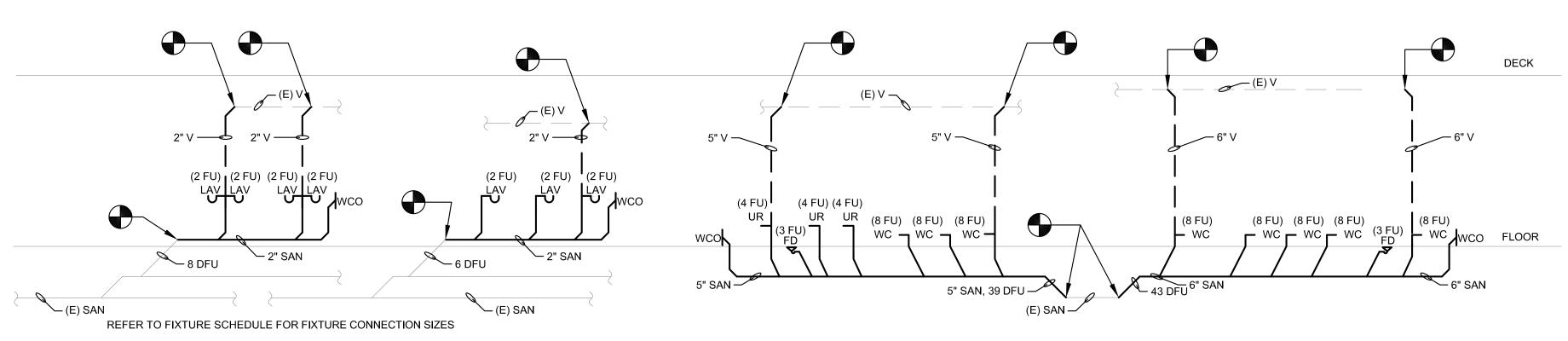
CW1615 Project number November 25, 2019 Drawn by Checked by

M802



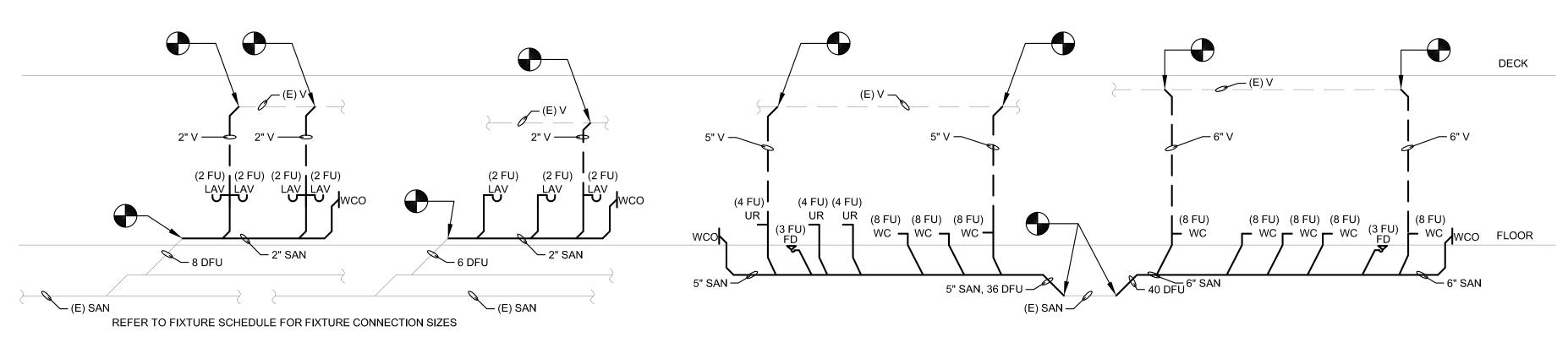
SANITARY RISER MEN'S AND WOMEN'S ROOM Q

M803 SCALE: NOT TO SCALE

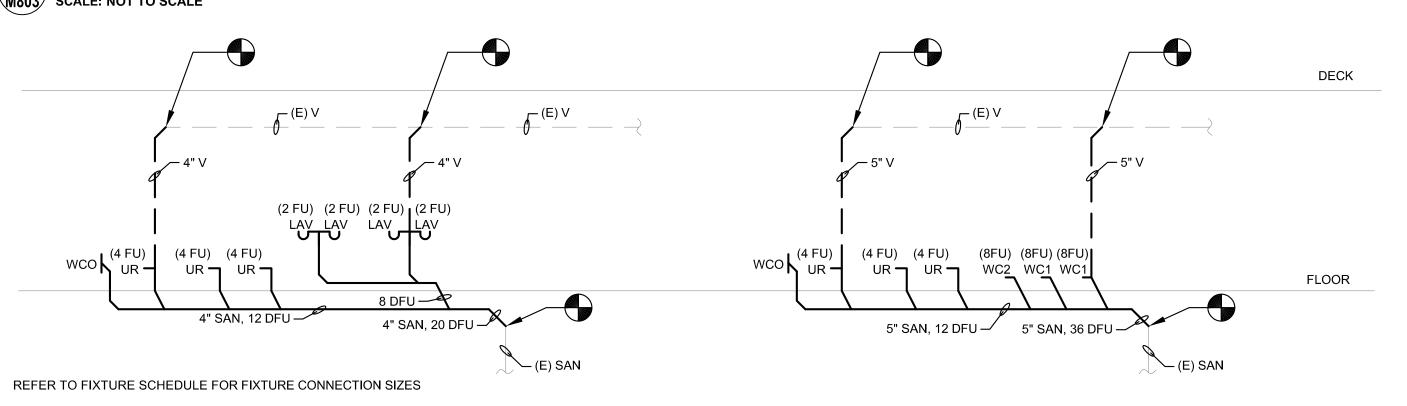


SANITARY RISER MEN'S AND WOMEN'S ROOM R

M803 SCALE: NOT TO SCALE



3 SANITARY RISER MEN'S AND WOMEN'S ROOM S M803 SCALE: NOT TO SCALE



4 SANITARY RISER MEN'S ROOM A

SCALE: NOT TO SCALE

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. 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.

: :::: : CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS:

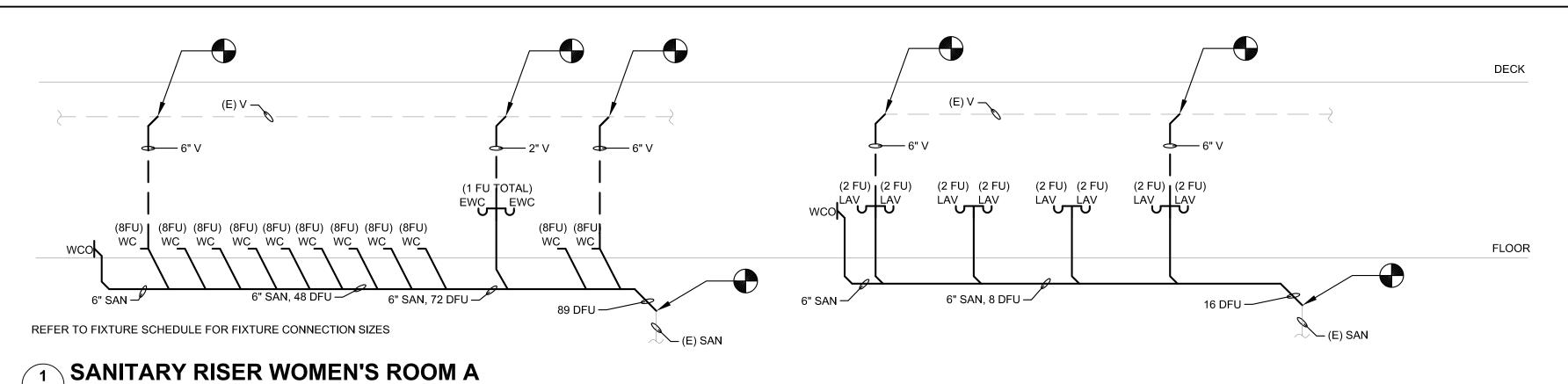
Description

PENNSYLVANIA ONVENTION CENTER

PLUMBING RISERS

CW1615 November 25, 2019 Drawn by Checked by

M803



GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. 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.

· · · · · CONVERSE : WINKLER : ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.cor

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph. 215.427.8700 Fax: 215.427.8752

PHILADELPHIA, PA 19125

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



REVISIONS: Description Date

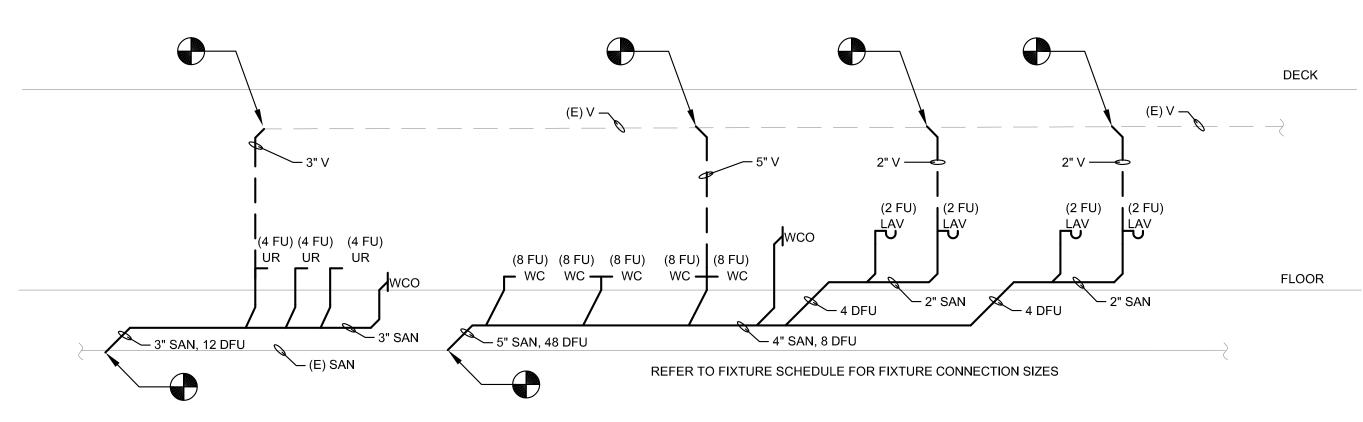
PENNSYLVANIA ONVENTION CENTER

PLUMBING RISERS

CW1615 Project number November 25, 2019 Drawn by Checked by

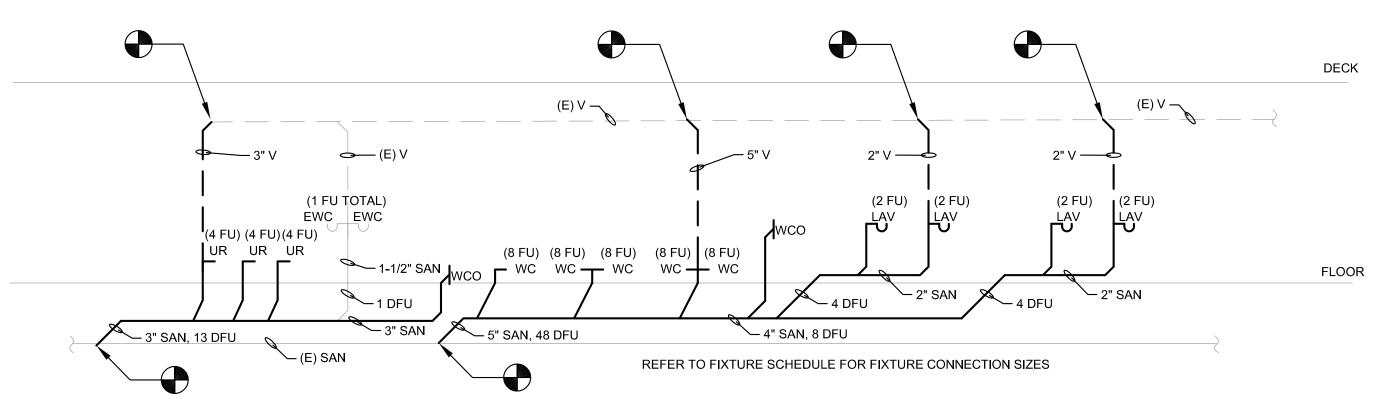
M804

M804 SCALE: NOT TO SCALE



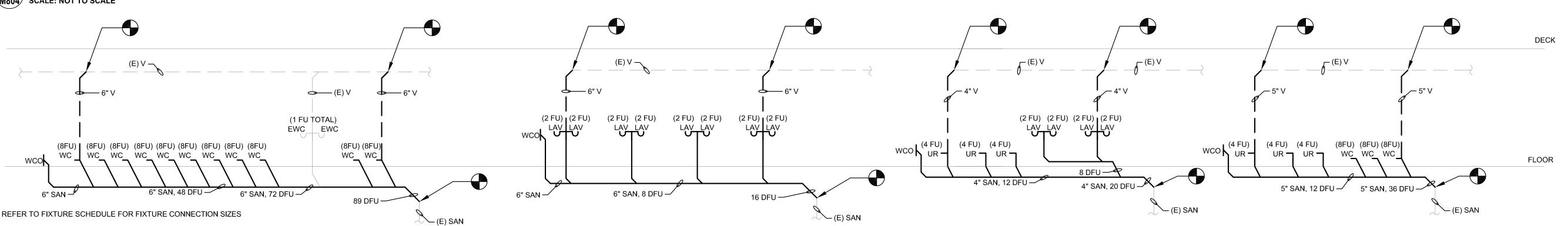
2 SANITARY RISER MEN'S AND WOMEN'S ROOM B

M804 SCALE: NOT TO SCALE



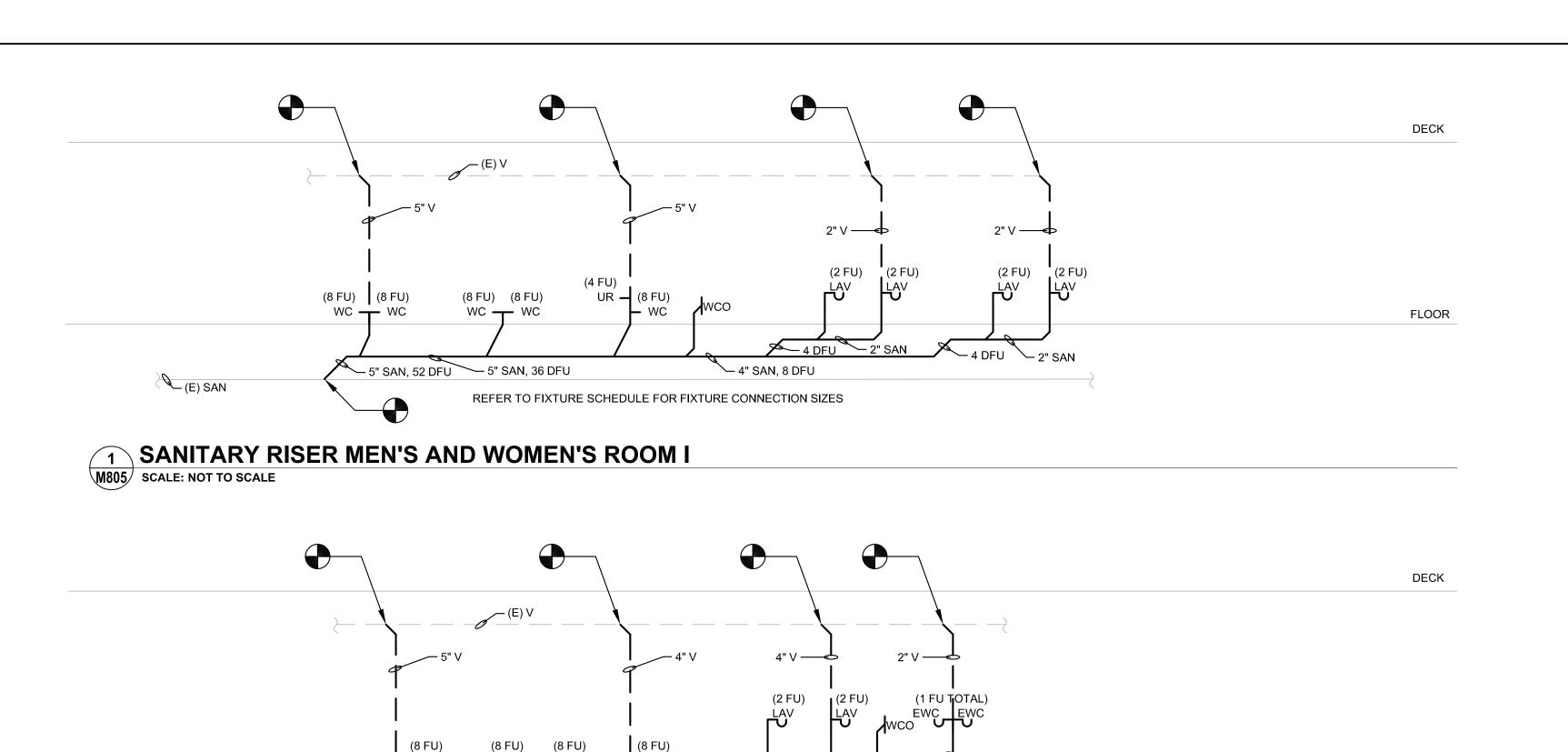
3 SANITARY RISER MEN'S AND WOMEN'S ROOM C

M804 SCALE: NOT TO SCALE



4 SANITARY RISER MEN'S AND WOMEN'S ROOM D

M804 SCALE: NOT TO SCALE



- 1 DFU

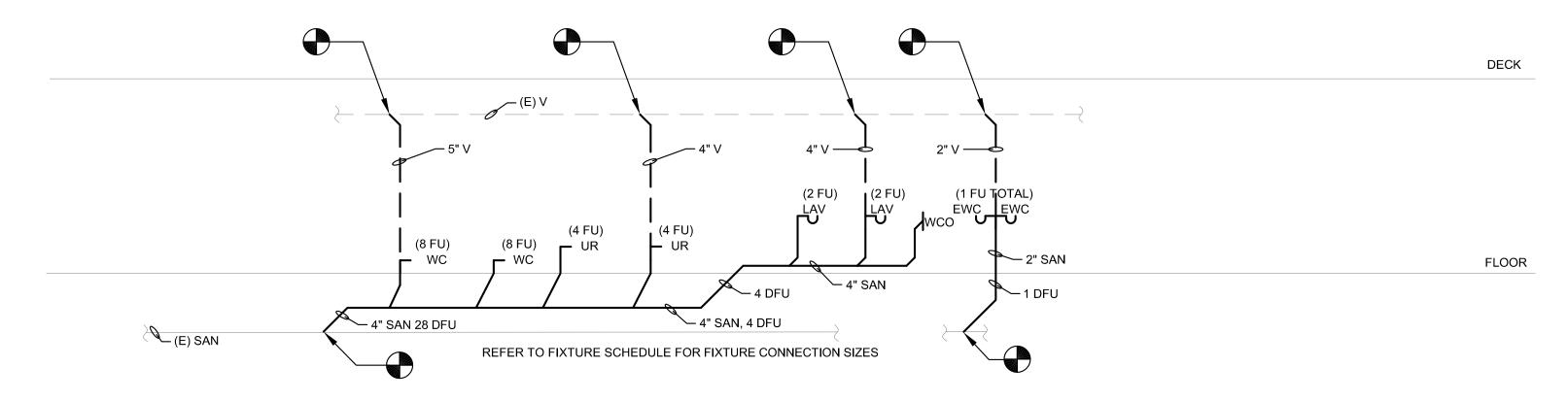
SANITARY RISER WOMEN'S ROOM L

WC

∽ 4" SAN 36 DFU

M805 SCALE: NOT TO SCALE

(E) SAN



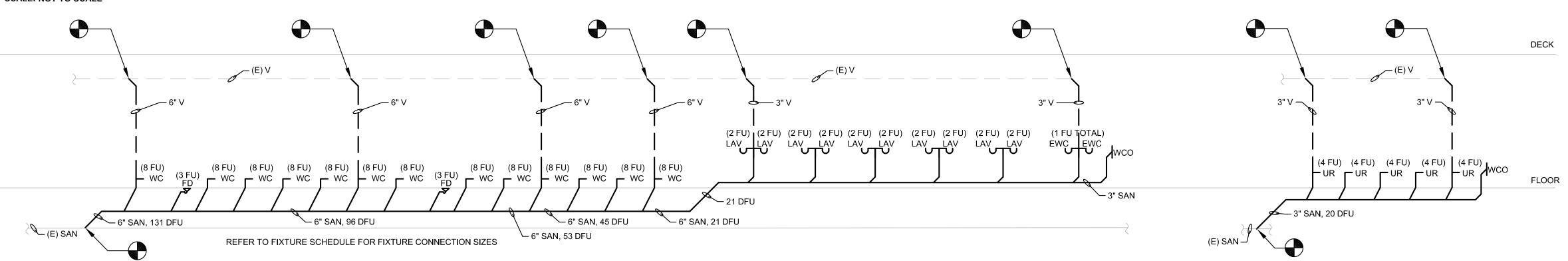
- WC

REFER TO FIXTURE SCHEDULE FOR FIXTURE CONNECTION SIZES

∕— 4" SAN, 4 DFU

3 SANITARY RISER MEN'S ROOM M

M805 SCALE: NOT TO SCALE



FLOOR

SANITARY RISER MEN'S AND WOMEN'S ROOM T

M805 SCALE: NOT TO SCALE

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. 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.

: :::: : CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

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

PHILADELPHIA, PA 19125



REVISIONS:

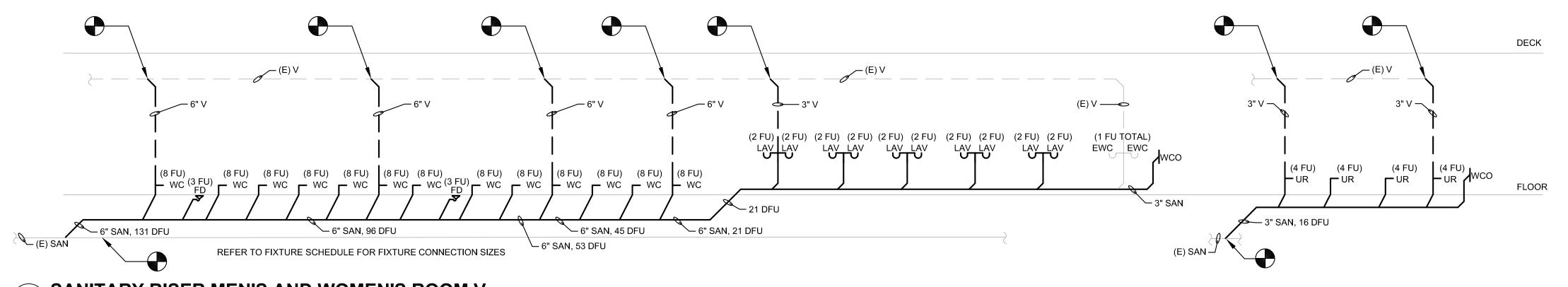
Description

PENNSYLVANIA CONVENTION CENTER

PLUMBING RISERS

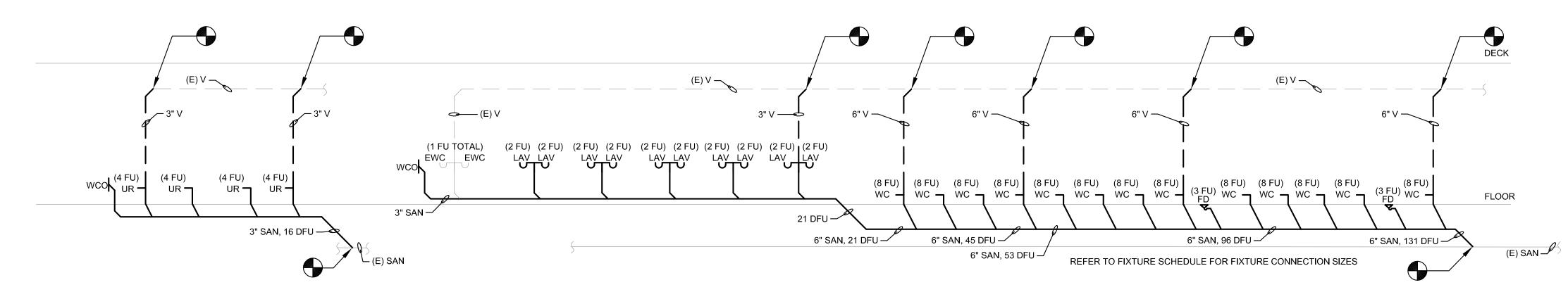
CW1615 November 25, 2019 Drawn by Checked by

M805



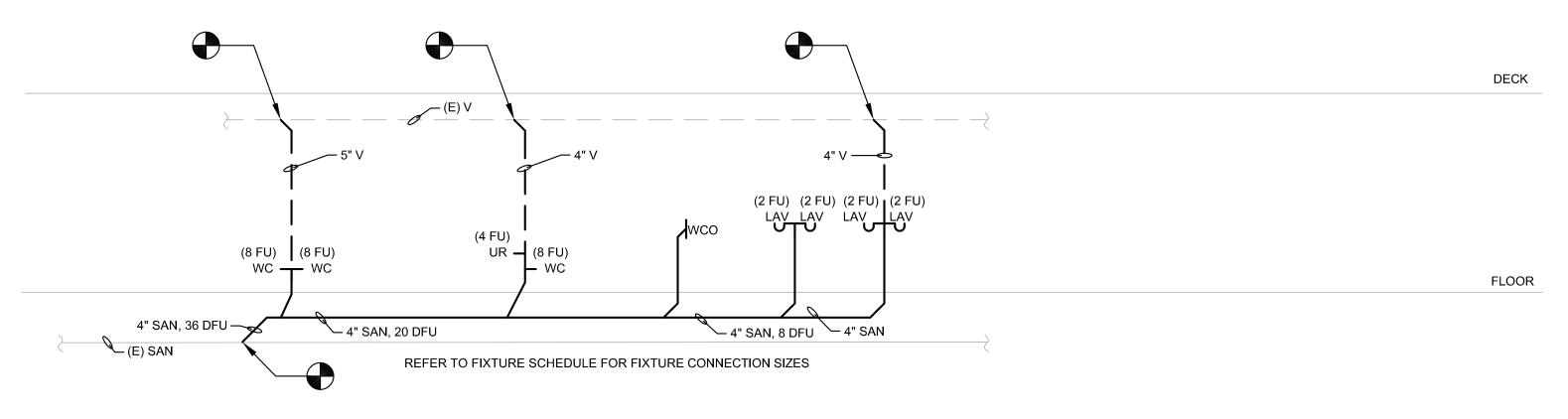
SANITARY RISER MEN'S AND WOMEN'S ROOM V

M806 SCALE: NOT TO SCALE



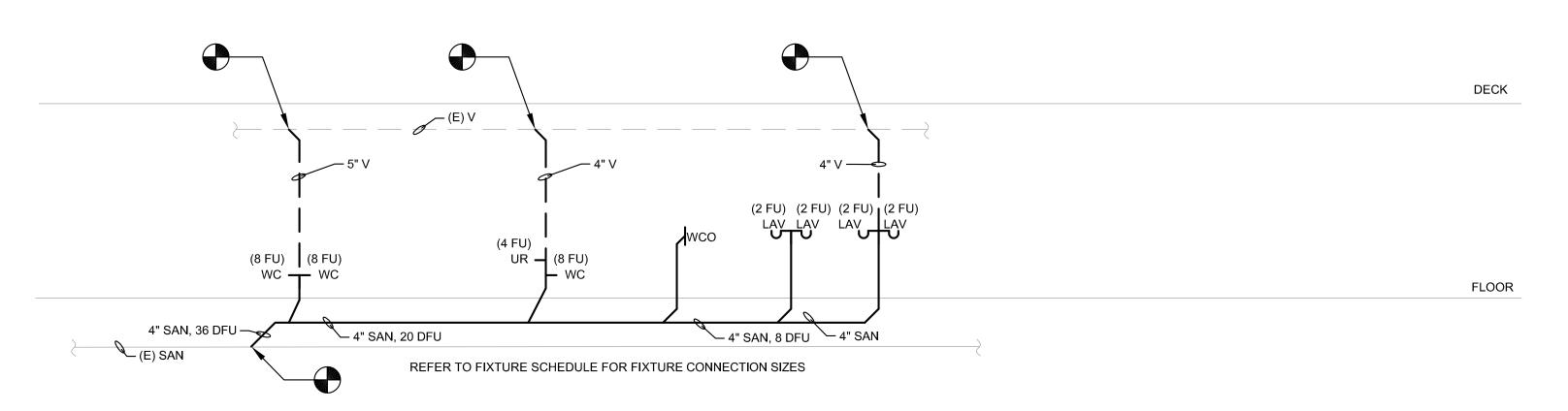
2 SANITARY RISER MEN'S AND WOMEN'S ROOM W

M806 SCALE: NOT TO SCALE



3 SANITARY RISER MEN'S AND WOMEN'S ROOM X

M806 SCALE: NOT TO SCALE



4 SANITARY RISER MEN'S AND WOMEN'S ROOM Y

M806 SCALE: NOT TO SCALE

GENERAL NOTES

- REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. 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.

: CONVERSE
: WINKLER
: ARCHITECTURE

331 MONTGOMERY AVE
BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 1931 |
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

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

PHILADELPHIA, PA 19125



REVISIONS:

No. Description Date

PENNSYLVANIA
CONVENTION CENTER
RESTROOM RENOVATIONS

PLUMBING RISERS

Project number CW1615

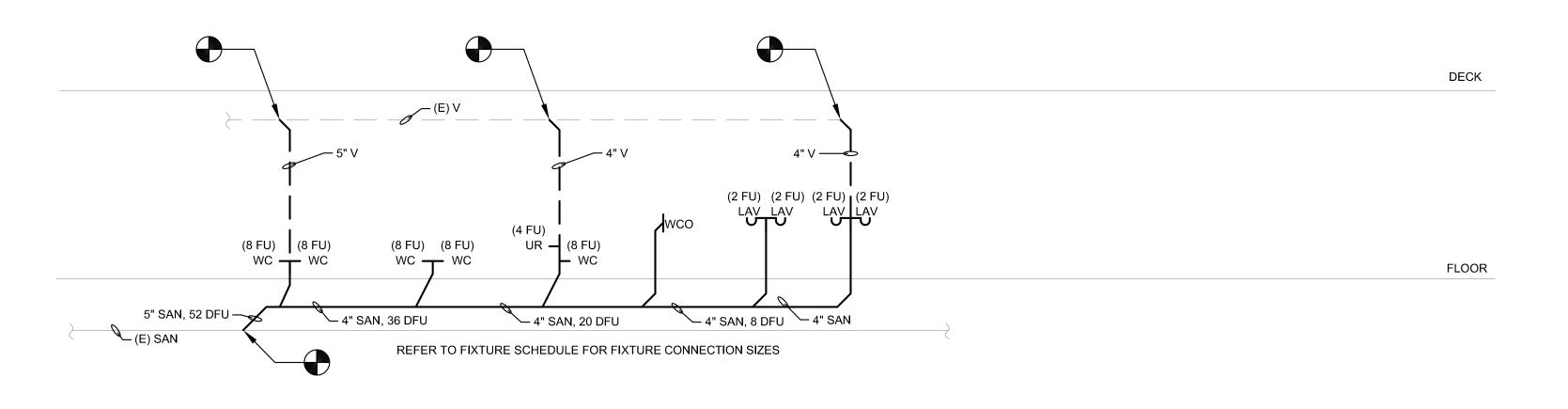
Date November 25, 2019

Drawn by DG

Checked by DM

M806

Scale



GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, ABBREVIATIONS
- 2. REFER TO DRAWING M200 FOR SCHEDULES AND DETAILS.
- 3. 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.

331 MONTGOMERY AVE BALA CYNWYD, PA 19144

::::::: CONVERSE

: WINKLER : ARCHITECTURE

MEP ENGINEERS:



Arora Engineers, Inc. 61 Wilmington-West Chester Pike | Chadds Ford, PA 19317 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

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

PHILADELPHIA, PA 19125



REVISIONS:

o. Description Date

PENNSYLVANIA
CONVENTION CENTER
RESTROOM RENOVATIONS

PLUMBING RISERS

Project number CW1615

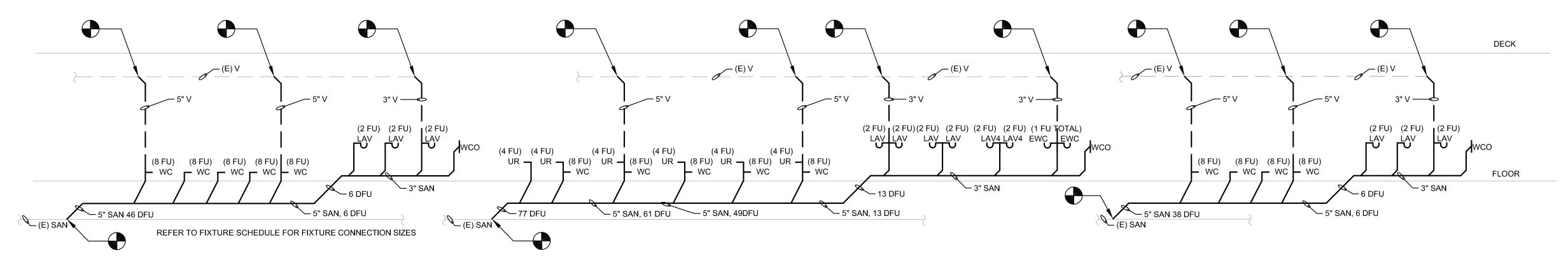
Date November 25, 2019

Drawn by DG

Checked by DM

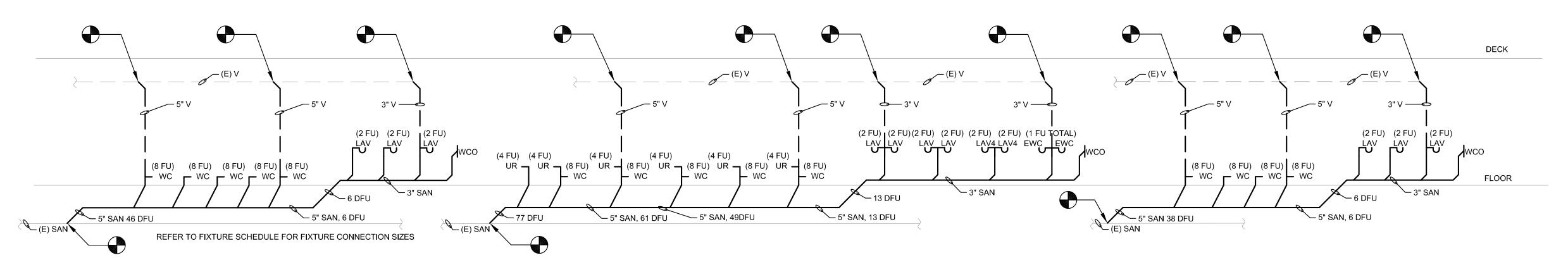
M807

1 SANITARY RISER MEN'S AND WOMEN'S ROOM Z
SCALE: NOT TO SCALE



2 SANITARY RISER MEN'S AND WOMEN'S ROOM A1

M807 SCALE: NOT TO SCALE



3 SANITARY RISER MEN'S AND WOMEN'S ROOM A2

807 SCALE: NOT TO SCALE

GENERAL ELECTRICAL NOTES

- 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 ACCORDANCE WITH NEC ARTICLE 314. TROUGHS SHALL BE SIZED PER NEC ARTICLE 366.
- 6. 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.
- 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.
- 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 ACCEPTANCE TEST IN ACCORDANCE WITH THE TESTING PROCEDURES OUTLINED IN NFPA 72 FOR THE FIRE ALARM DEVICES IN EACH AREA OF WORK. NOTE ANY AND ALL DEFICIENCIES. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 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 THE 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 THE PREVIOUSLY REMOVED EXISTING DEVICES. COORDINATE ALL WORK WITH OTHER TRADES IN THE SAME AREA OF WORK.
- 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 APPROVAL

- 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

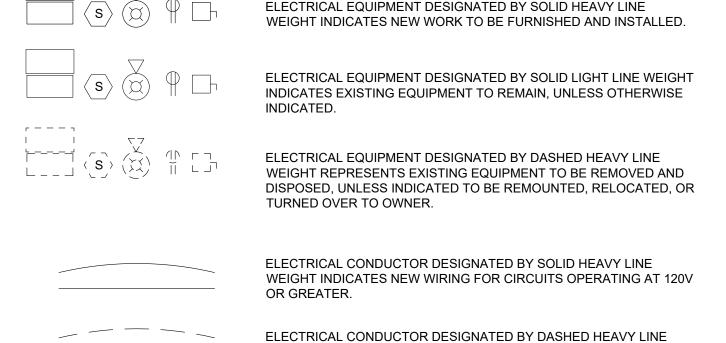
SENERAL S	SYMBOLS LEGEND
Ψ_	DUPLEX RECEPTACLE MOUNTED 18" AFF; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N.
Ψ'	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N.
₩ ₩UC	GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N.
	GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE MOUNTED UNDERNEATH COUNTERTOP; NEMA 5-20R, 20A, 125V, 2P 3W. U.O.N.
J	JUNCTION BOX
	ELECTRICAL PANELBOARD
	HOMERUN TO PANELBOARD
S	20A, 120/277V, RATED SINGLE TOGGLE LIGHT SWITCH
S_M	20A, 120/277V, MOTOR RATED SINGLE TOGGLE SWITCH
Sos	24V RATED LIGHT SWITCH OCCUPANCY SENSOR DUAL TECHNOLOGY SENSING. BASIS OF DESIGN: HUBBELL CONTROL: LHMTS1-24V-WH
XX:## ©C	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR (XX:## DENOTES PANEL AND BEAKER INFORMATION) BASIS OF DESIGN: HUBBELL OMNIDT 2000 (360°, 22' RADIUS)
<u>©C</u>	WALL MOUNTED OCCUPANCY SENSOR
<u>s</u>	SPEAKER
<u></u>	

FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR

INDICATES CANDELA, W INDICATES SPEAKER WATTAGE

FIRE ALARM SYSTEM CEILING MOUNTED AUDIBLE / VISUAL NOTIFICATION DEVICE.

LINE TYPES



APPLICABLE CODES

- NATIONAL ELECTRIC CODE 2018 (NFPA 70)
- IBC 2018 CHAPTER 27
- PA UCC
- INTERNATIONAL ENERGY CONSERVATION CODE 2018
- IEEE STD 142-1991 RECOMMENDED PRACTICE FOR GROUNDING OF INDUSTRIAL AND COMMERCIAL POWER SYSTEMS.

WEIGHT INDICATES NEW WIRING FOR CIRCUITS OPERATING AT LESS

NFPA 72, 2007 EDITION

ABBREVIATIONS			
Α	AMPERES		
AC	ALTERNATING CURRENT		
AF	AMPERES, FRAME		
AFF	ABOVE FINISHED FLOOR		
AIC	AMPERES, INTERRUPTING CAPACITY		
AIR	AMPERES, INTERRUPTING RATING		
ARP	AMPERES, RATING PLUG		
AT	AMPERES, TRIP		
ATS	AUTOMATIC TRANSFER SWITCH		
AWG	AMERICAN WIRE GAUGE		
BSMT	BASEMENT		
C, CNDT	CONDUIT		
CLG	CEILING MOUNTED		
CU	COPPER		
СТ	CURRENT TRANSFORMER		
EC	ELECTRICAL CONTRACTOR		
EM	EMERGENCY		
EMT	ELECTRICAL METALLIC TUBING		
FMC	FLEXIBLE METAL CONDUIT		
G	GROUND		
GFCI OR GFI	GROUND FAULT CIRCUIT INTERRUPTER		
GRS	GALVANIZED RIGID STEEL		
Hz	HERTZ		
KA	KILO AMPERES		
KCMIL	KILO CIRCULAR MILS		
KVA	KILO VOLT AMPERES		
KW	KILO WATTS		
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT		
MCB	MAIN LUCS ONLY		
MLO	MAIN LUGS ONLY		
MOCP	MAXIMUM OVERCURRENT PROTECTIVE DEVICE		
MOPD	MAXIMUM OVERCURRENT PROTECTIVE DEVICE MOTOR		
MTR			
NEC	NATIONAL ELECTRIC CODE NORMALLY OPEN		
N.O.	PHASE		
PH, Ø	POTENTIAL TRANSFORMER		
PT	RIGID METAL CONDUIT		
RMC	ROOT-MEAN-SQUARE		
RMS RNC	RIGID NON-METALLIC CONDUIT		
	SHORT CIRCUIT CURRENT RATING		
SCCR	SURGE PROTECTION DEVICE		
SPD			
SYM	SYMMETRICAL		
TBD	TO BE DETERMINED		
TDDE	TIME-DELAY DUAL ELEMENT (FUSES)		
TYP	TYPICAL		
TELE	TELEPHONE		
UON	UNLESS OTHERWISE NOTED		

UNINTERRUPTIBLE POWER SUPPLY

VOLTS

TRANSFORMER

IMPEDANCE

UPS

XFMR

CONVERSE WINKLER ARCHITECTURE BALA CYNWYD, PA 19144

MEP ENGINEERS:



P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com STRUCTURAL ENGINEERS: CSA GROUP

1341 NORTH DELAWARE AVENUE, PHILADELPHIA, PA 19125 Ph: 215.427.8700

Fax: 215.427.8752

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



REVISIONS: Description

0

GENERAL NOTES ABBREVIATIONS & LEGEND

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

NOT TO SCALE

GENERAL NOTES

- SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. SEE DRAWING E701 FOR INSTALLATION DETAILS.
- 4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.

KEYED NOTES

EC SHALL FURNISH AND INSTALL NEW ELECTRICAL EQUIPMENT IN EXISTING ELECTRICAL ROOM TO SUPPORT NEW LOADS RELATED TO THE RESTROOM RENOVATION WORK. REFER TO DETAIL 1/E701 FOR THE PROPOSED EQUIPMENT AND INSTALLATION INFORMATION.

NEW PANEL RP-1B3-2-AND 30 KVA TRANSFORMER E811 PER DETAIL 1/E701 (E) PANEL RP-182 Race Street Hall G 115A Lecture Hall □ 115B□ 103C Street 113C eet 122A 115C □ 113B 103B □ tre Str 121C Exhibit Hall F road S 113A 103A 13 \mathbf{m} 121A 104A 111B 120C 118A □ 118B □ 120B 110A 126B 108B 126A 108A 119A (E) PANELS— RP-1A5, RP-1A7, −(E) PANELS Arch Street (E) PANELS--(E) PANEL RP-1B3 `RP-1A14, RP-1B4, RP-1A21

SITE POWER PLAN - LEVEL 100

SCALE: 1/64" = 1'-0"

RP-1A22, RP-1A15 RP-1B7



MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 19317
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

Description 11/08/19 **ELEC UPDATE**

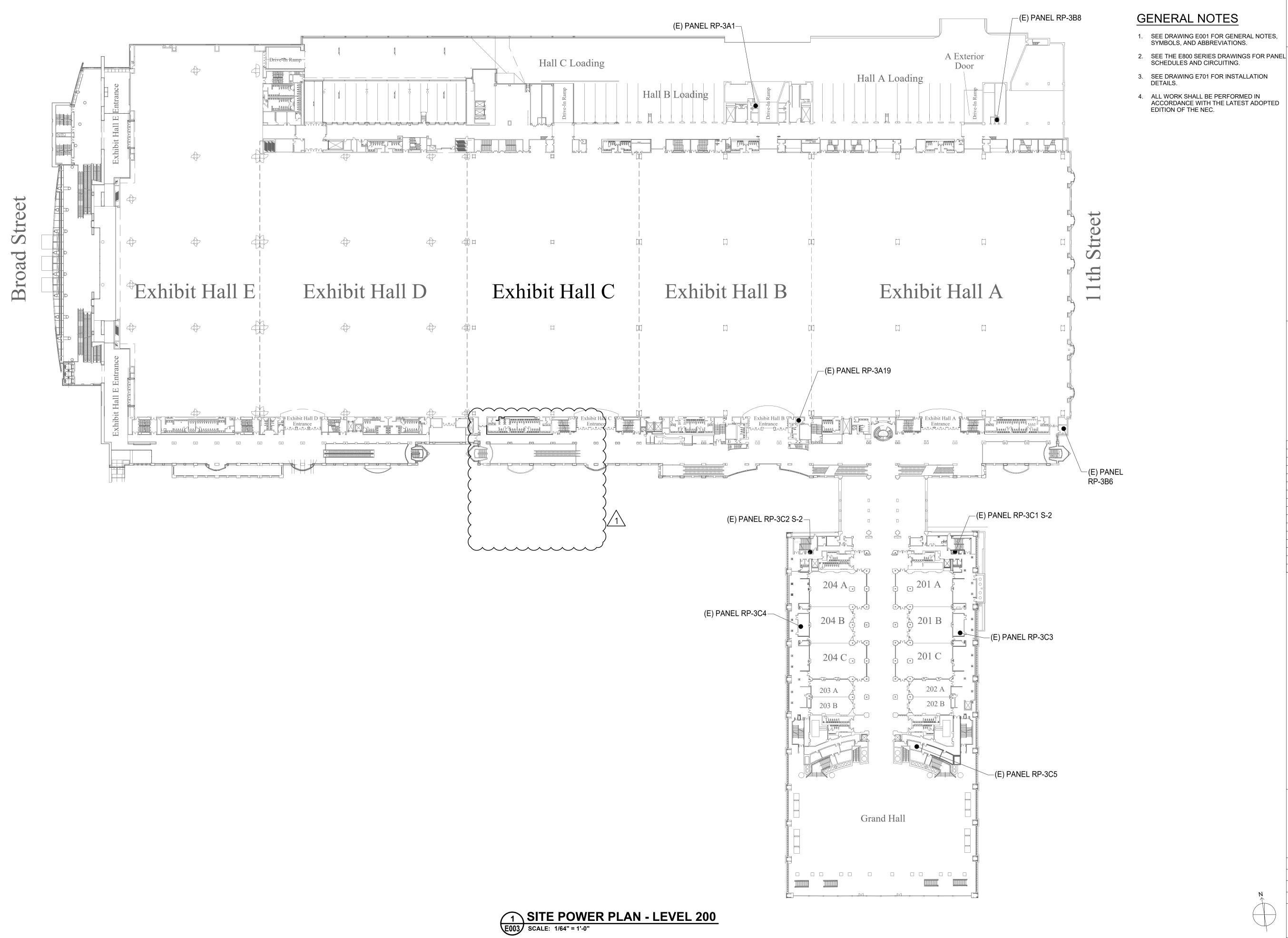
PENNSYLVANIA CONVENTION CENTER

SITE POWER PLAN - LEVEL 100

CW1615 November 25, 2019 RR,AS Drawn by

Checked by

E002





- SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SEE DRAWING E701 FOR INSTALLATION DETAILS.
- 4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.

CONVERSE WINKLER
ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 19317
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



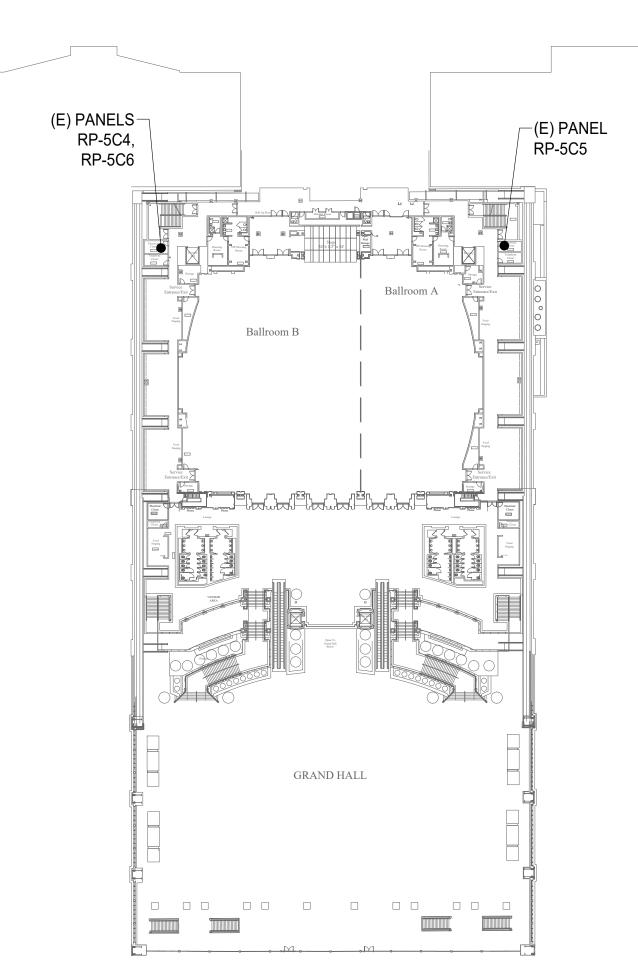
REVISIONS:

INL	VISIONS.	
No.	Description	Date
1	ELEC UPDATE	11/08/19

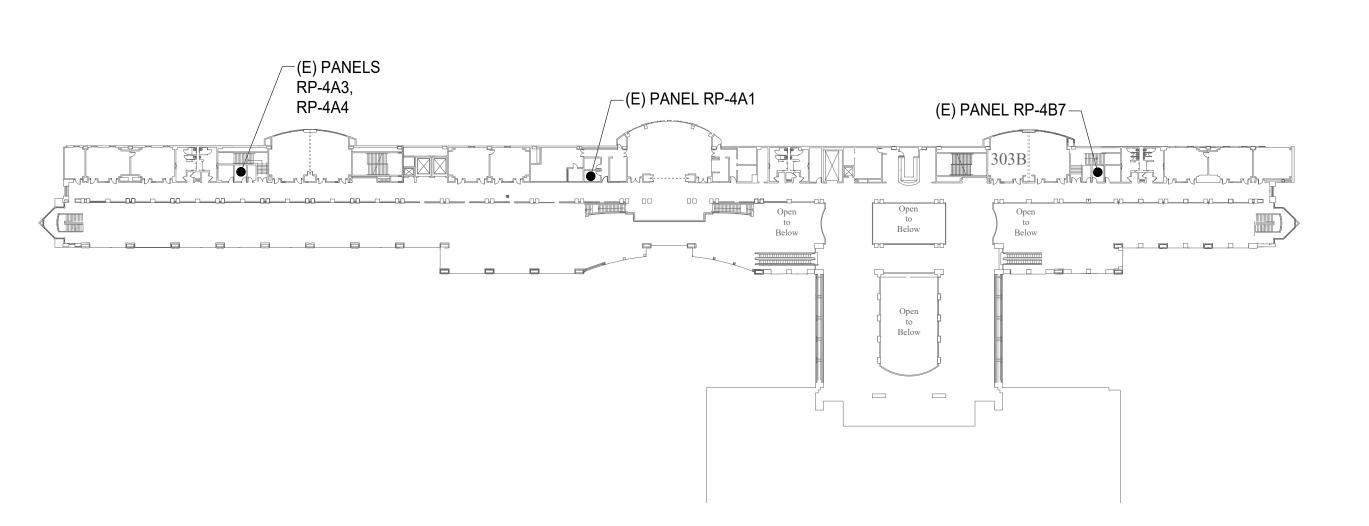
SITE POWER PLAN - LEVEL 200

CW1615 November 25, 2019 RR,AS Drawn by Checked by

E003



2 SITE POWER PLAN - BALLROOM E004 SCALE: 1/64" = 1'-0"



SITE POWER PLAN - LEVEL 300
E004 SCALE: 1/64" = 1'-0"



- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL
- SEE DRAWING E701 FOR INSTALLATION DETAILS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.

SCHEDULES AND CIRCUITING.

KEYED NOTES

E1 EC SHALL FURNISH AND INSTALL NEW ELECTRICAL EQUIPMENT IN EXISTING ELECTRICAL ROOM TO SUPPORT NEW LOADS RELECTED TO THE RESTAUR OF THE PROPERTY OF THE PROPE WORK. REFER TO DETAIL 1/E701 FOR THE PROPOSED EQUIPMENT AND INSTALLATION INFORMATION.

: :::::::: CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc.
61 Wilmington-West Chester Pike | Chadds Ford, PA 19317
P (610) 459-7900 | F (610) 459-7950 | aroraengineers.com

Contact: Kevin Sultanik

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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

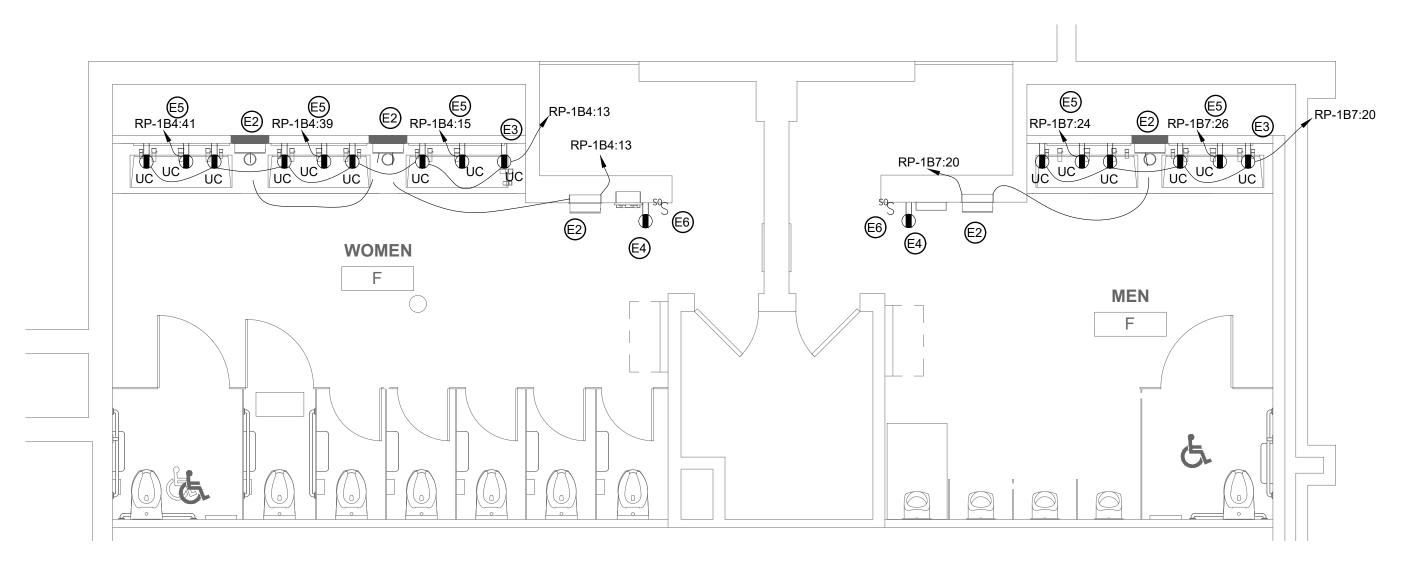


REVISIONS: Date No. Description

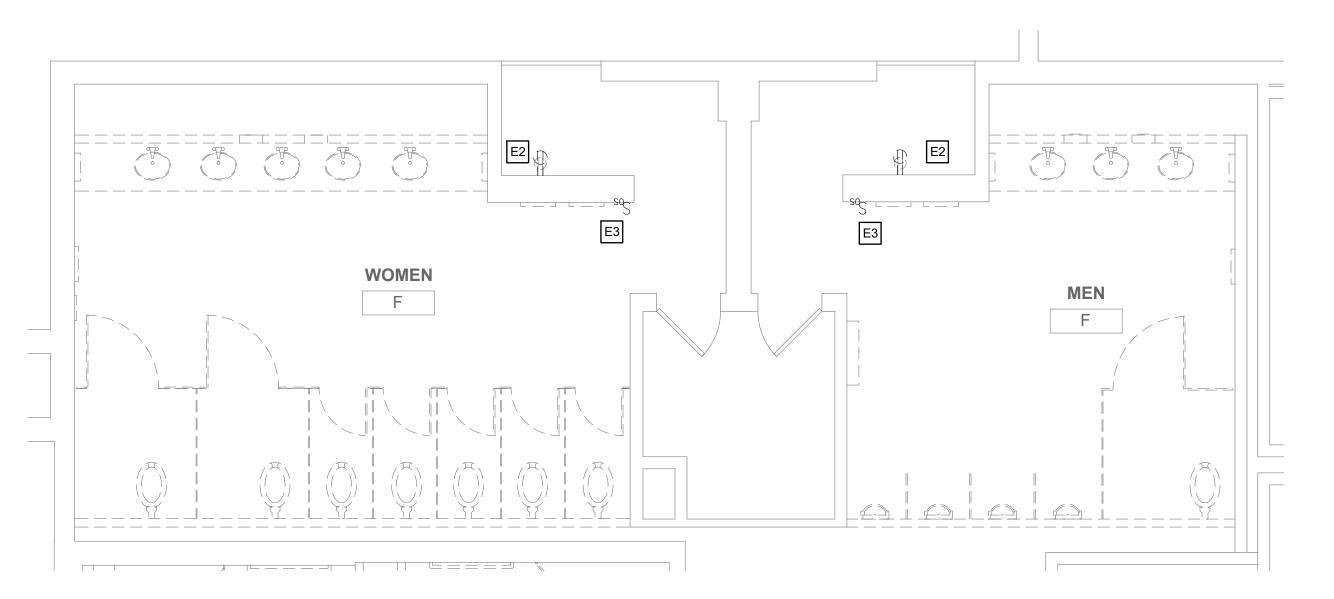
PENNSYLVANIA CONVENTION CENTER

SITE POWER PLAN - LEVEL 300 AND BALLROOM

CW1615 November 25, 2019 RR,AS Drawn by Checked by



FLOOR PLAN - MEN'S & WOMEN'S ROOM F E102 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM F E102 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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 FIXTURES.
- 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 KEYED NOTES

- E1 NOT USED.
- E2 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
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX. CUT. REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

TYPICAL NEW WORK:

CONTRACTOR TO FIELD INVESTIGATE, VERIFY AND INSTALL CIRCUIT AT NEAREST PANEL WITH AVAILABLE CAPACITY.

TYPICAL DEMO WORK:

3 ELECTRIC WATER COOLER TYPICAL DETAIL

GENERAL NEW WORK NOTES

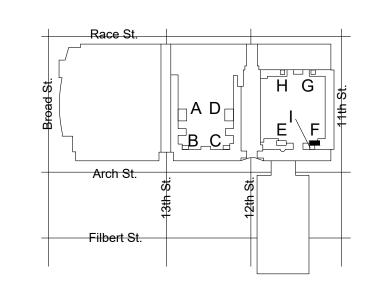
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS

OTHERWISE NOTED.

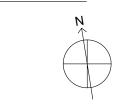
- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V. 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- E2 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.
- E3 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.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION IOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK 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 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN
- 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 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 100



Project number Drawn by Checked by

ARORA° Arora Engineers, Inc. Imington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

CONVERSE

WINKLER

ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

STRUCTURAL ENGINEERS:

CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

MEP ENGINEERS:

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

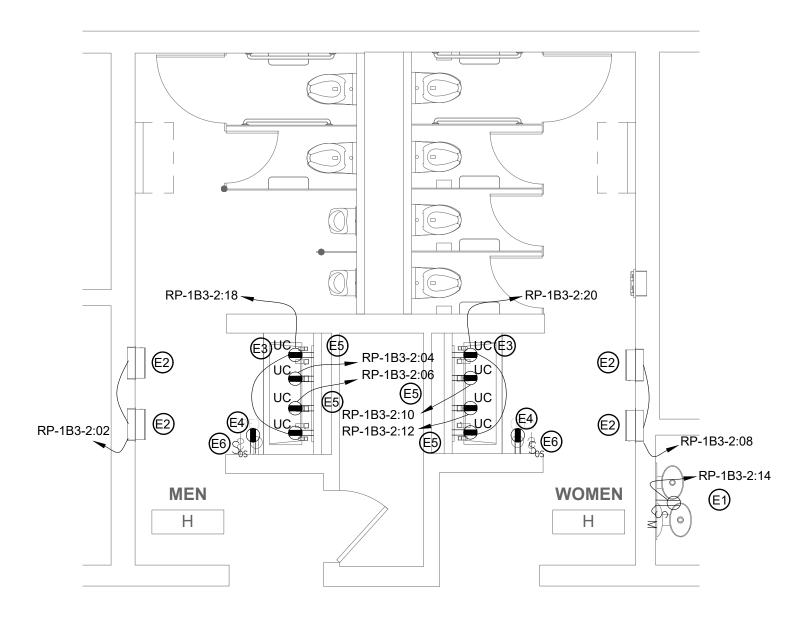


REVISIONS: No. Description Date

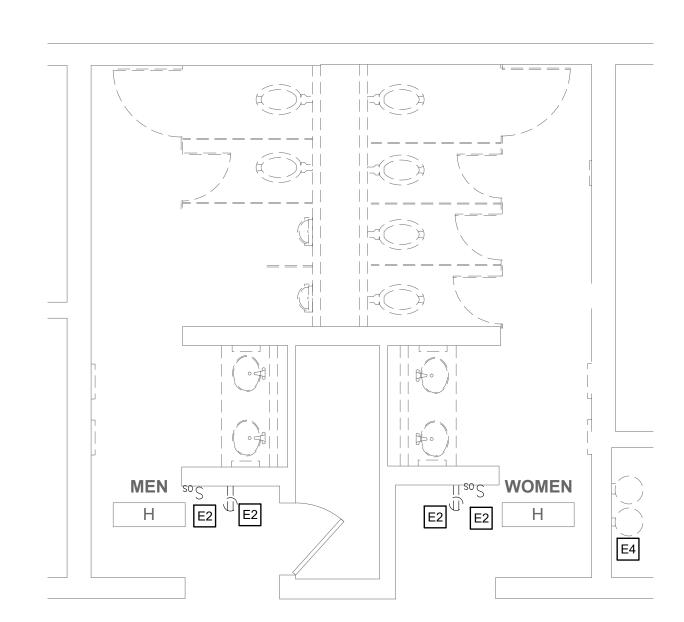
> /ANIA CENTER PENNSYLV

DEMOLITION & NEW FLOOR PLANS - ROOM F (EXHIBIT)

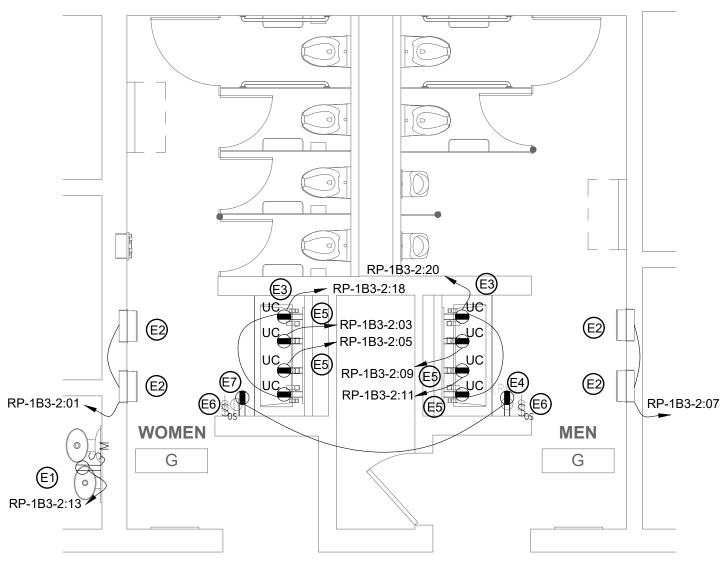
CW1615 November 25, 2019 RR,AS



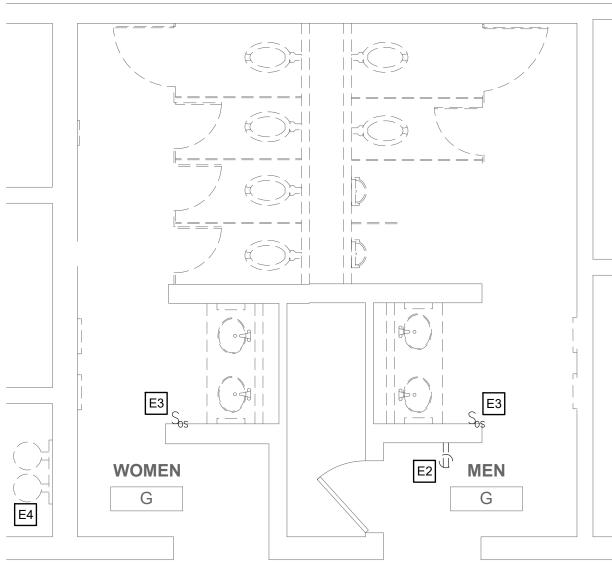
4 DEMO PLAN - MEN'S & WOMEN'S ROOM H E103 SCALE: 1/4" = 1'-0"







3 FLOOR PLAN - MEN'S & WOMEN'S ROOM G SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM G E103 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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 FIXTURES.
- 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 KEYED NOTES

E1 NOT USED.

E2 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

E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH, PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX. CUT. REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

GENERAL NEW WORK NOTES

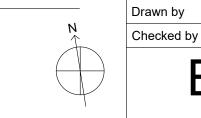
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS

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
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- E2 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.
- E3 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.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT
- E5 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EG 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 3/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
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



Arch St. Filbert St.

NTS KEY PLAN - LEVEL 100

November 25, 2019

CW1615

RR,AS

1/4" = 1'-0"

DEMOLITION &

NEW FLOOR

PLANS - ROOMS

G, H (EXHIBIT)

CONVERSE

331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:

Contact: Kevin Sultanik

CSA GROUP

Ph: 215.427.8700

Fax: 215.427.8752

Contact: Wing Au

REVISIONS:

/ANIA CENTER

PENNSYLV,

Project number

Description

Date

No.

SUITE 507

ARCHITECTURE

ARORA°

Arora Engineers, Inc. mington-West Chester Pike | Chadds Ford, PA 1931

P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

e-mail: ksultanik@aroraengineers.com

1341 NORTH DELAWARE AVENUE,

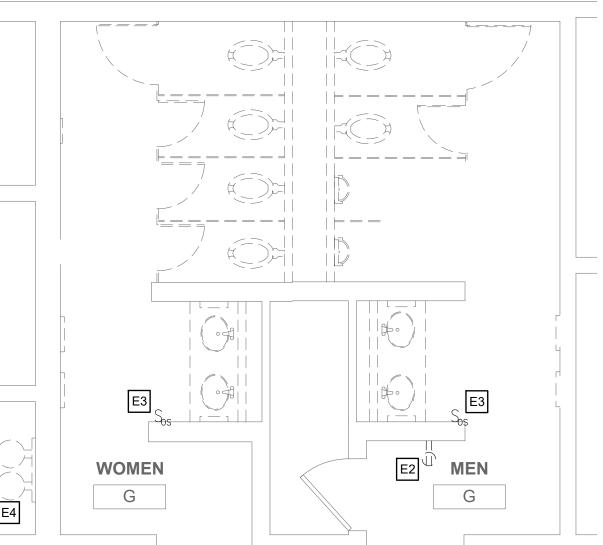
STRUCTURAL ENGINEERS:

PHILADELPHIA, PA 19125

e-mail: wau@csagroup.com

RYAN M. ROGALA

WINKLER



(3) ELECTRIC WATER COOLER TYPICAL DETAIL E103 SCALE: 1/2" = 1'-0"

TYPICAL NEW WORK:

CONTRACTOR TO FIELD INVESTIGATE, VERIFY AND INSTALL CIRCUIT AT NEAREST PANEL WITH AVAILABLE CAPACITY.

TYPICAL DEMO WORK:

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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
- 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 FIXTURES.
- 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 KEYED NOTES

E1 NOT USED.

RP-3A4-2:16

RP-3A4-2:22

RP-3A4-2:16

E2 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

E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

PRP-3A4-2:18 RP-3A4-2:20

WOMEN

J

RP-3A4-2:32

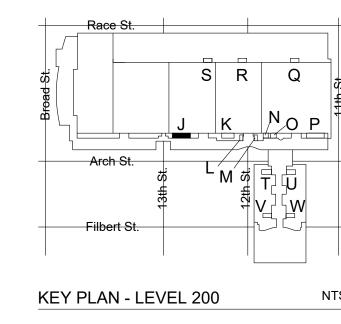
RP-3A4-2:32

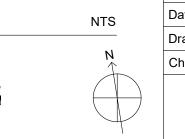
GENERAL NEW WORK NOTES

- 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 THE NEC.
- ALL CONDUCTORS SHALL BE CU AND THHN/THWN 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
- 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.
- 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- EZ 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.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION IOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- 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 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN
- 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 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.





CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co Contact: Kevin Sultanik

Arora Engineers, Inc. Imington-West Chester Pike | Chadds Ford, PA 1931

e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS:

No. Description Date

/ANIA CENTER PENNSYLV, CONVENTION (

DEMOLITION & NEW FLOOR PLANS - ROOM J (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

E104

1/4" = 1'-0"

1 DEMO PLAN - MEN'S & WOMEN'S ROOM J E104 SCALE: 1/4" = 1'-0"

RP-3A4-2:02

MEN

RP-3A4-2:02

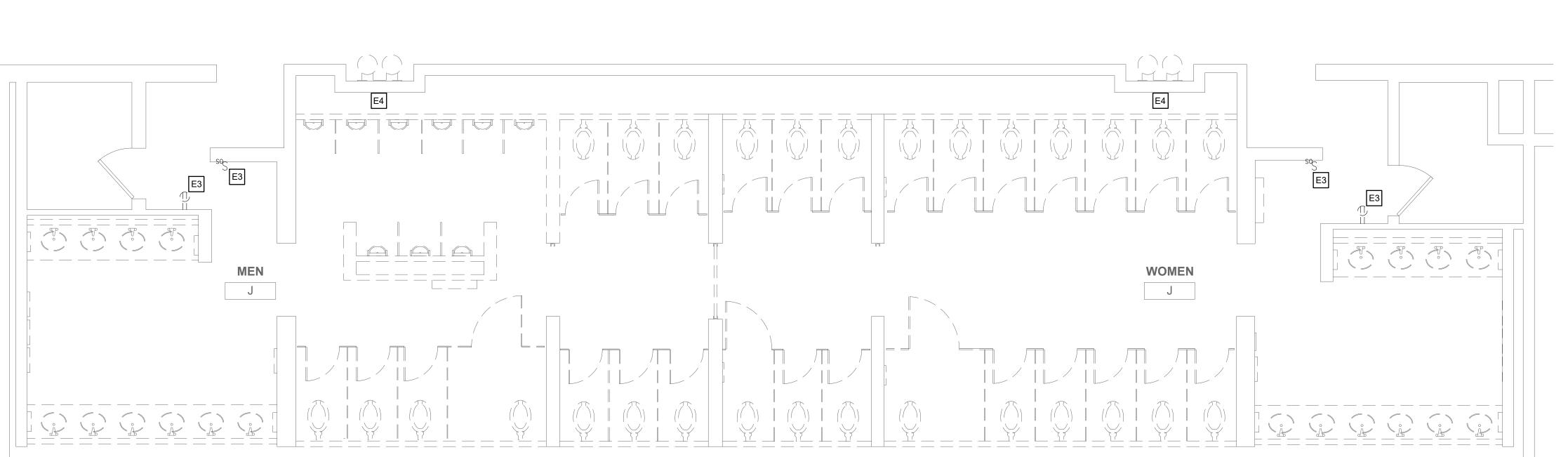
RP-3A4-2:12

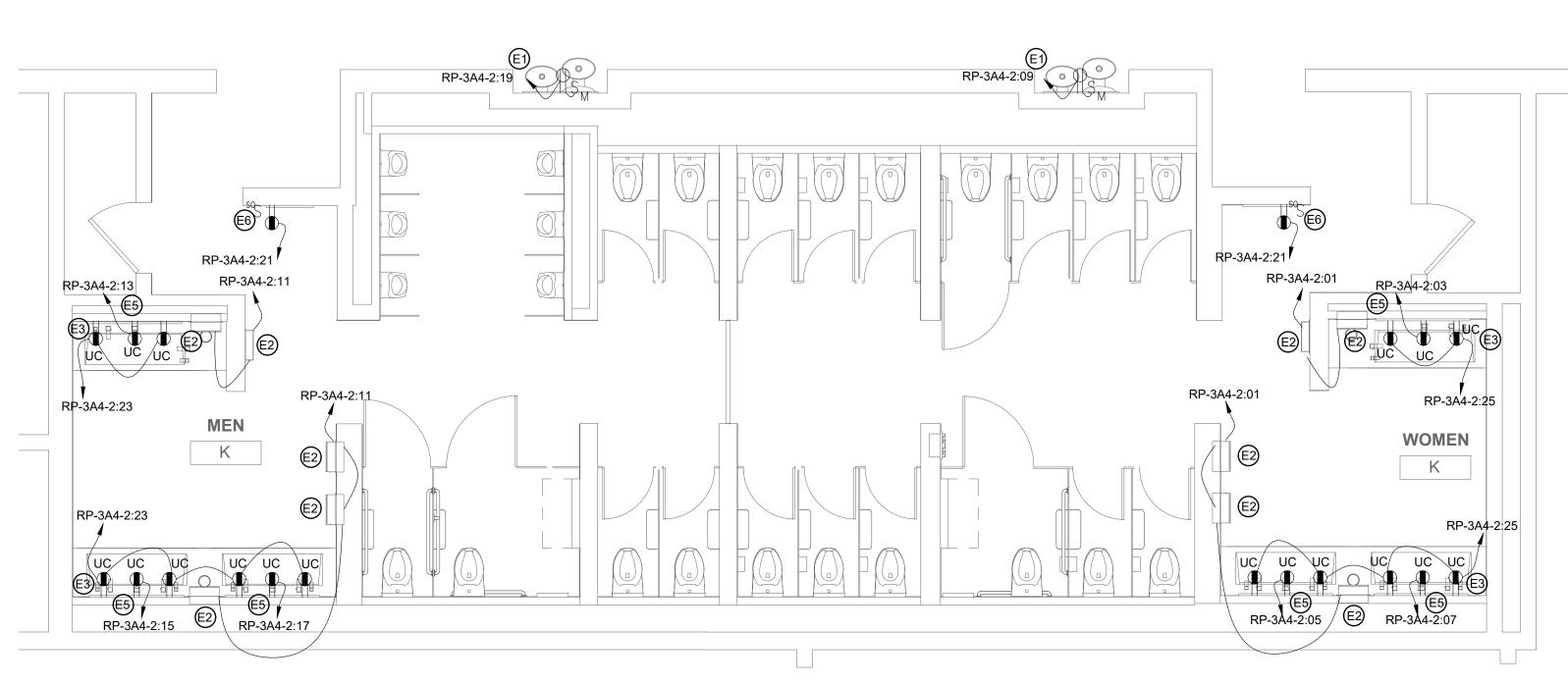
7 FLOOR PLAN - MEN'S & WOMEN'S ROOM J

E5

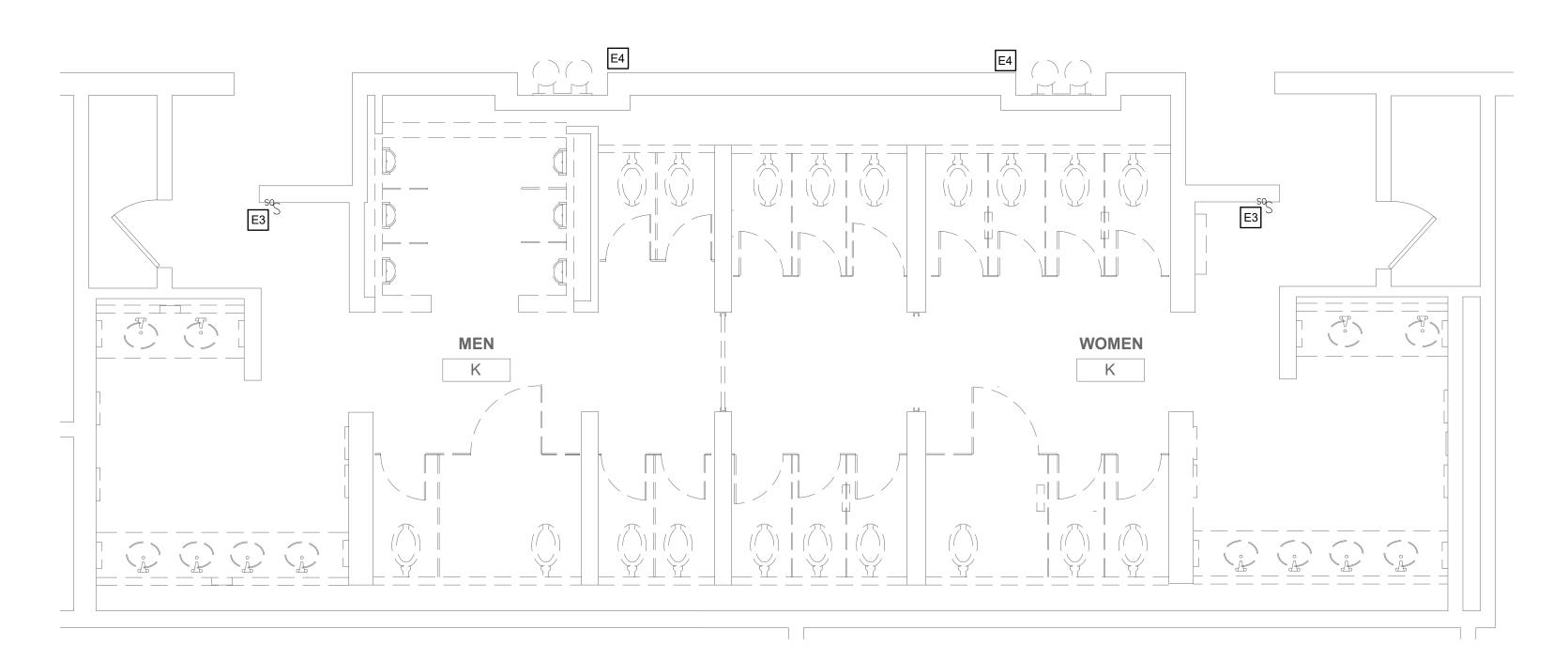
RP-3A4-2:30

E104 SCALE: 1/4" = 1'-0"





FLOOR PLAN - MEN'S & WOMEN'S ROOM K E105 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM K E105 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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
- 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 FIXTURES.
- 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 KEYED NOTES

E1 NOT USED.

E2 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

- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX. CUT. REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

GENERAL NEW WORK NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND
- CIRCUITING. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS

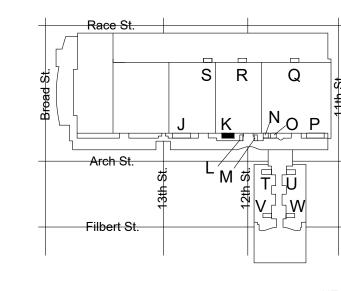
LATEST ADOPTED EDITION OF THE NEC.

OTHERWISE NOTED.

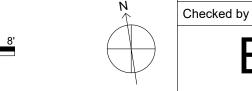
- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- E2 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.
- E3 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.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION IOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK 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 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN
- 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 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 200





MEP ENGINEERS:



Arora Engineers, Inc. Imington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125 Ph: 215.427.8700

SUITE 507

Fax: 215.427.8752

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

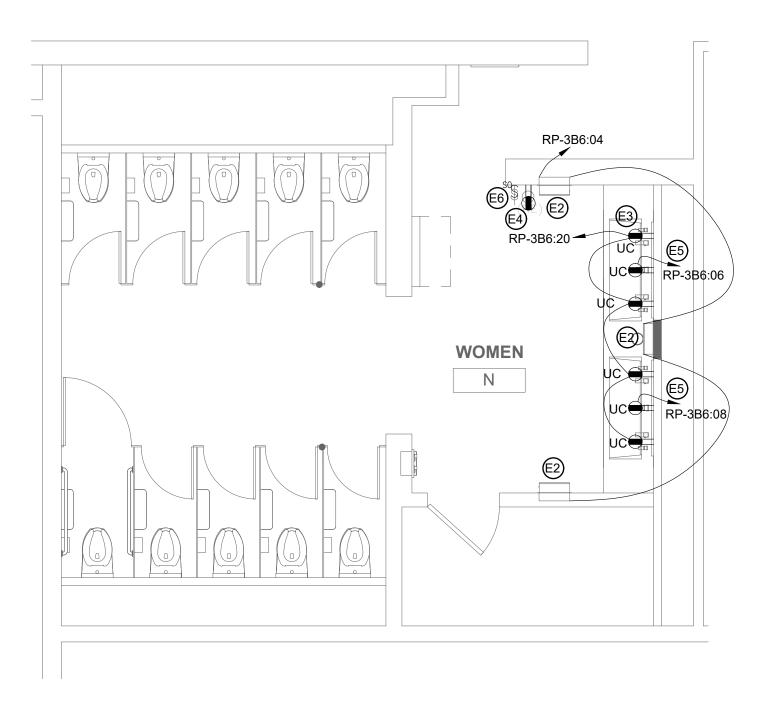


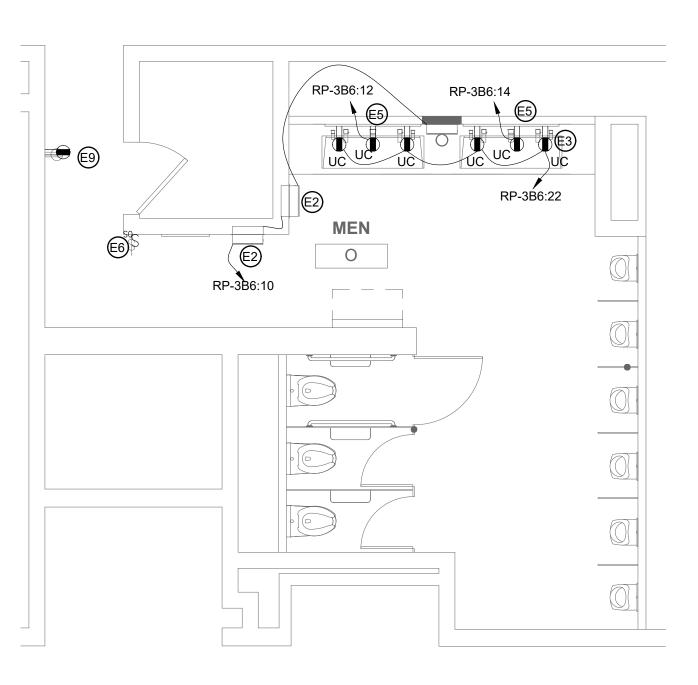
REVISIONS: No. Description Date

/ANIA CENTER PENNSYLV,

DEMOLITION & NEW FLOOR PLANS - ROOM K (EXHIBIT)

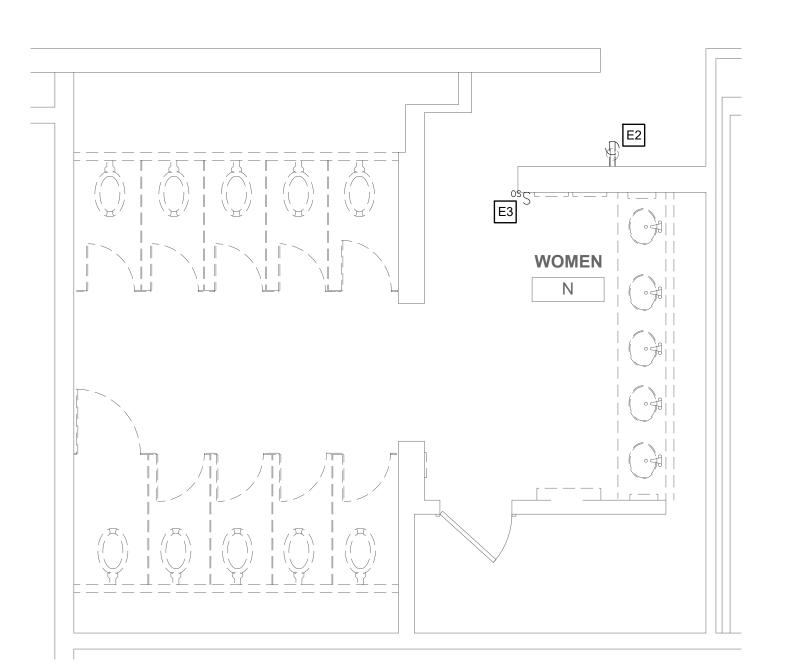
CW1615 Project number November 25, 2019 RR,AS Drawn by



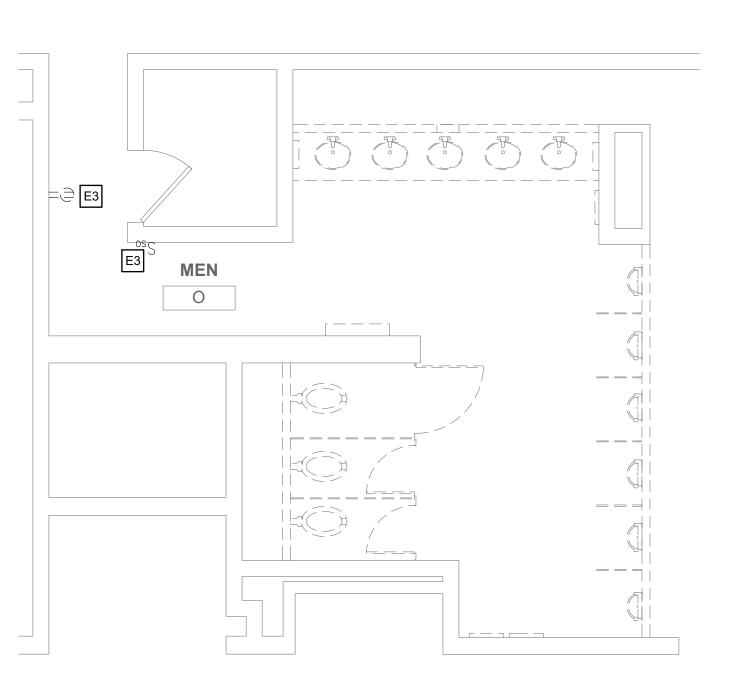


FLOOR PLAN - WOMEN'S ROOM N
E106 SCALE: 1/4" = 1'-0"

3 FLOOR PLAN - MEN'S ROOM O
E106 SCALE: 1/4" = 1'-0"







1 DEMO PLAN - MEN'S ROOM O
E106 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 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
- 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 FIXTURES.
- 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 KEYED NOTES

- E1 NOT USED.
- E2 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
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

GENERAL NEW WORK NOTES

- 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 THE NEC.

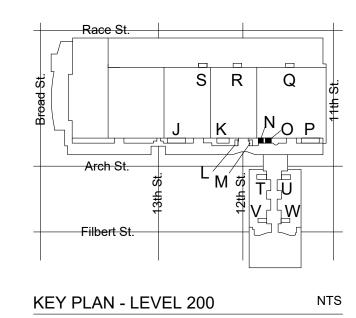
 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS

OTHERWISE NOTED.

- 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- E2 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.
- ES 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.
- ES SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- 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 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 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 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



2' 4' 8'



MEP ENGINEERS:



2 (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Arora Engineers, Inc. mington-West Chester Pike | Chadds Ford, PA 1931

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125
Ph: 215.427.8700
Fax: 215.427.8752

SUITE 507

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



No. Description Date

REVISIONS:

PENNSYLVANIA CONVENTION CENTER

DEMOLITION &
NEW FLOOR
PLANS - ROOMS
N, O (EXHIBIT)

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by HL

E106

le 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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
- 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 FIXTURES.
- 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 KEYED NOTES

RP-3B6:25

RP-3B6:31

RP-3B6:33

MEN

RP-3B6:25

E1 NOT USED.

E2 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

E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

RP-3B6:29

RP-3B6:16

RP-3B6:16

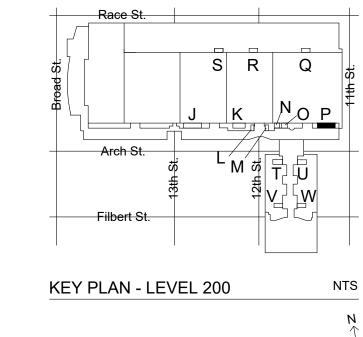
RP-3B6:35

GENERAL NEW WORK NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN 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
- 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- EZ 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.
- E3 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
- (E4) EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION HOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- 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 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN
- 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 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



CONVERSE WINKLER **ARCHITECTURE** 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. ilmington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:

CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

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



REVISIONS: No. Description Date

> /ANIA CENTER PENNSYLV, CONVENTION (

DEMOLITION & NEW FLOOR PLANS - ROOM P (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

E107

1/4" = 1'-0"

1 DEMO PLAN - MEN'S & WOMEN'S ROOM P E107 SCALE: 1/4" = 1'-0"

E6

RP-3B6:09

FLOOR PLAN - MEN'S & WOMEN'S ROOM P

RP-3B6:18

RP-3B6:18

E107 SCALE: 1/4" = 1'-0"

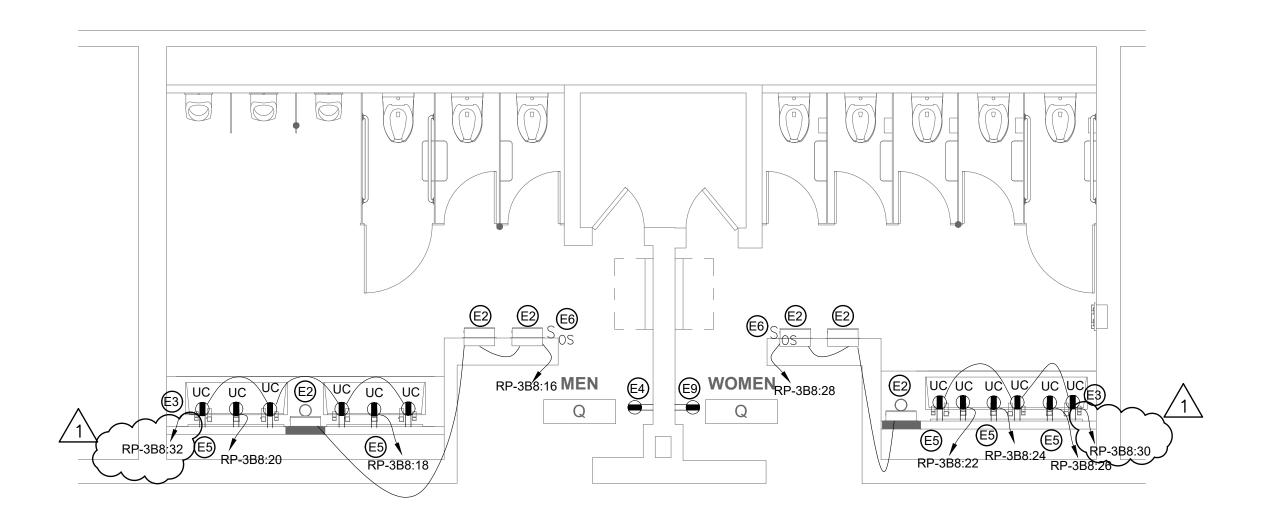
WOMEN

Р

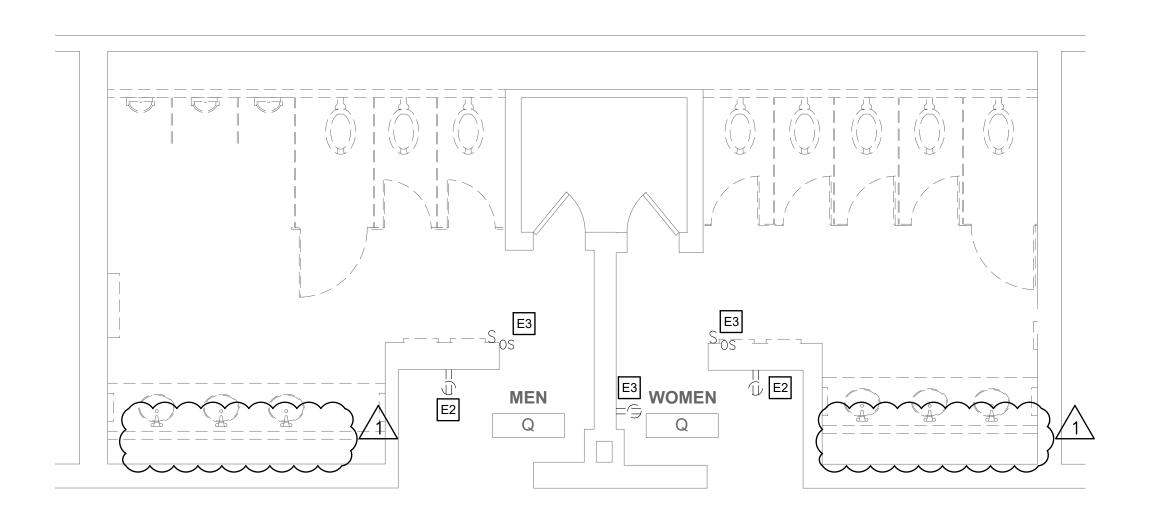
E5 (2) (5) (DD 2DC

RP-3B6:09

E3



7 FLOOR PLAN - MEN'S & WOMEN'S ROOM Q E108 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Q E108 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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 FIXTURES.
- 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 KEYED NOTES

E1 NOT USED

- E2 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
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

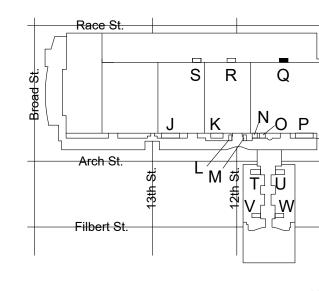
GENERAL NEW WORK NOTES

OTHERWISE NOTED.

- 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 THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS
- 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
- 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1 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.
- E2 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.
- E3 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.
- E4 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 GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- 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 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- (E7) 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 4/E701.
- ® NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 200



CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. Imington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

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

PHILADELPHIA, PA 19125



REVISIONS:

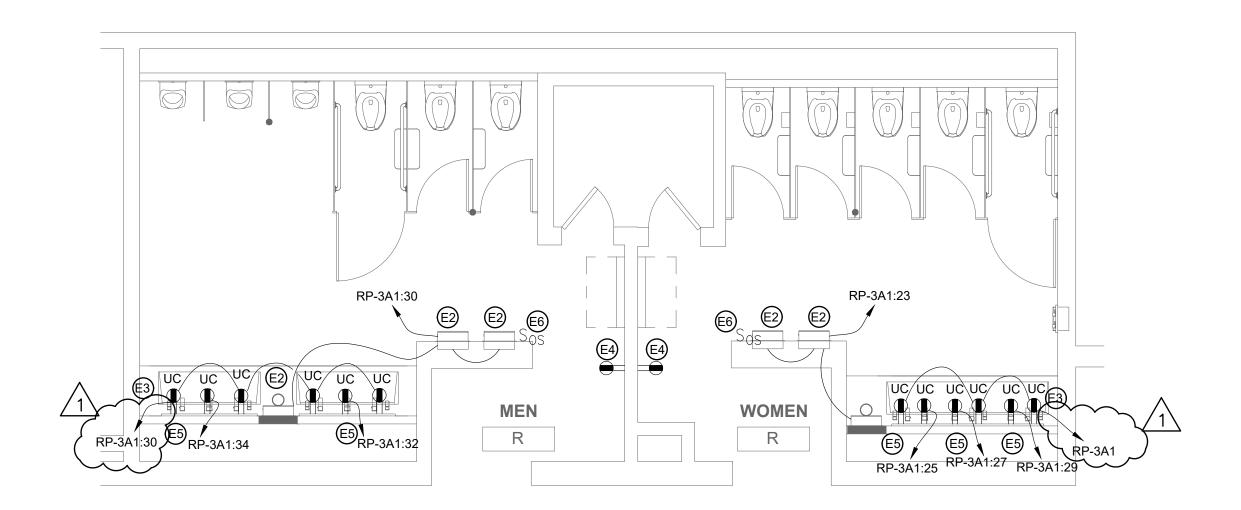
Description Date 11/08/19 ELEC UPDATE

/ANIA CENTER PENNSYLV CONVENTION

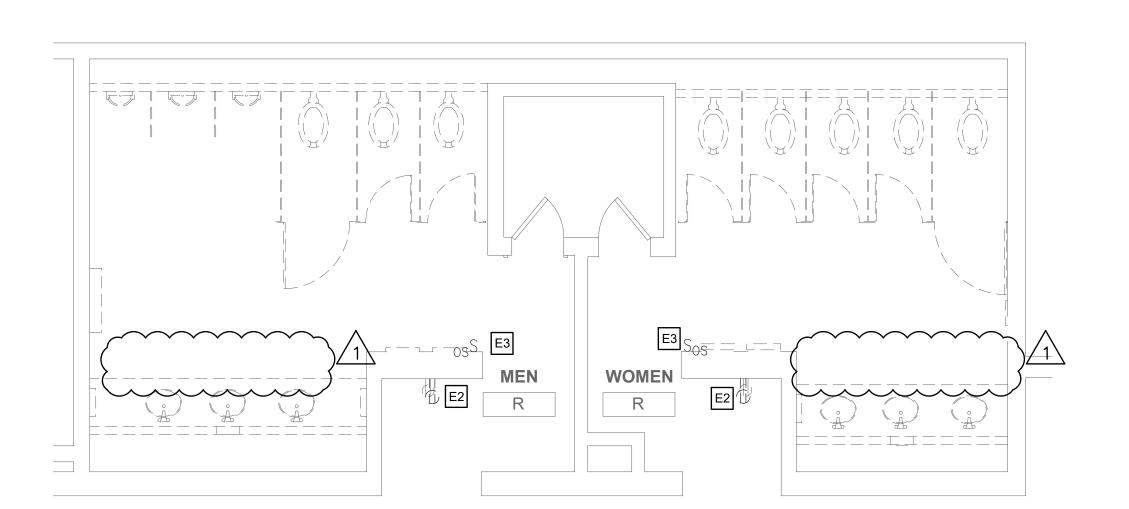
DEMOLITION & NEW FLOOR PLANS - ROOM Q (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

E108



FLOOR PLAN - MEN'S & WOMEN'S ROOM R



\DEMO PLAN - MEN'S & WOMEN'S ROOM R E109 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 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 FIXTURES.
- 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 KEYED NOTES

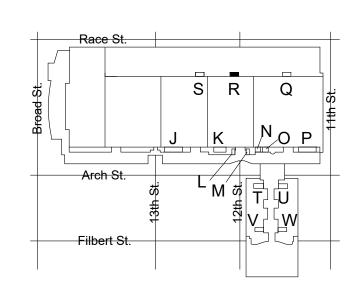
- E1 NOT USED
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE
- EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED, PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

GENERAL NEW WORK NOTES

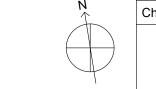
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 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
- 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. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

NEW WORK KEYED NOTES

- E1) 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.
- EZ 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.
- E3 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.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT
- ES BALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- 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 3/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 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 200



CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

MEP ENGINEERS:



Arora Engineers, Inc. Imington-West Chester Pike | Chadds Ford, PA 1931 P (610) 459-7900 | F (610) 459-7950 | aroraengineers.co

Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP

1341 NORTH DELAWARE AVENUE,

PHILADELPHIA, PA 19125 Ph: 215.427.8700

SUITE 507

Fax: 215.427.8752

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



REVISIONS:

Description Date 11/08/19 ELEC UPDATE

/ANIA CENTEI PENNSYLV ONVENTION

DEMOLITION & NEW FLOOR PLANS - ROOM R (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by