

May 27, 2016
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA
Y16-768 / ADDENDUM #1

ORANGE COUNTY CONVENTION CENTER WEST BUILDING CONCOURSE D
RESTROOM RENOVATIONS

Bid Opening Date: June 7, 2016

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Underlining indicates additions, deletions are indicated by ~~strikethrough~~.

- A. The Bid Opening Date remains as June 7, 2016.
- B. The following are questions/responses/clarifications:

Question 1: Can the Contractor have the option to use cold forming framing design (supported by a signed and sealed drawings) to support the bathroom partitions instead of the specified structural steel angles. In the past, we have discovered overhead obstructions that cannot be identified during the bid process.

Response 1: Yes

Question 2: Sheet P101 has a general note #3 stating "Re-connect all vent piping serving floor below and rising to floor above if any is required to be demolished due to new layout. Provide offset as required." We cannot quantify the cost since its unknown. Please advise if this will be handled through Change Order if encountered during construction or should a budget be specified to be carried in the bid by all contractors.

Response 2: The Owner will not be issuing any change orders related to this issue. Venting is a requirement of the building and plumbing code. It is the GC's sole responsibility to submit an all-inclusive bid proposal that includes a value for connecting the vents as stipulated in the referenced General Note. There are two sanitary risers penetrating from the floor above that will require offsets.

Question 3: Sheet E201 general note states: "Reconnect all new lighting through new relay pack/low voltage occupancy sensors to existing normal lighting circuit. Provide new relay pack / low voltage occupancy sensors to match existing building lighting controls

Response 3: Existing circuits currently fed through building lighting control will be used to power new relay pack/occupancy sensor which will control new light fixtures.

Question 4: Please refer to drawings ED201 and TD601. In the Electrical Demolition drawing ED201, the information indicates that the devices will be removed and hold for relocation. But in the Systems demolition drawing TD601 indicate that we have to demolish the device and cabling for the nearest device. Please indicate which Note we shall follow.

Response 4: All work associated with the Fire Alarm System is to be accomplished in accordance with the "T" sheets and Specification Section 670 and Section 16781 (ans. Provided by LJ Trebough, Technology Research & Consulting, Inc.)

Question 5: Sheet AD601, Note A, indicates to verify whether the walls to be demolished are CMU or drywall. Please provide as built drawings for verification.

Response 5: The as-built drawings on file do not show the material of each wall. For the purpose of the bid proposal assume that the wall is CMU.

Question 6: Please confirm that no one of the dividing walls are load bearing walls

Response 6: It is the A/E's understanding that none of the dividing walls are load bearing walls.

Question 7: Please confirm that after demolishing existing chase walls the floors elevation will be the same or self-leveling will be required.

Response 7: The floor tile and mud set layer will be demolished. This may have an effect on the chase wall elevations as new tile and setting is required.

Question 8: Sheet AD 601 Note O indicates to remove existing concrete wall panels and framing and base. Where it's not indicated on the drawings, please advise.

Response 8: Note O applies to the hallway at rooms 263 and 264 where the walls are being demolished

Question 9: Sheet AD601, Note R pointed to the grab bars, where it's not indicated in the notes, please advise.

Response 9: Note R indicates to remove existing grab bars, salvage and return to Owner. See the revised AD601 and AD603.

Question 10: Sheet AD601, Note G indicates to remove the emergency gate entirely. Please provide detail for patching the frame location.

Response 10: This note applies to rooms 265 and 266. Patching and

Repairing is means and methods and shall be left up to the contractor.

Question 11: Sheet AD601, Note P indicates to remove the existing door and frame in restrooms 261/262, where sheet A603 doesn't call for the new door schedule, dimension and hardware, please advise if it is the intent of the designer to reuse the existing door.

Response 11: The intent is to reuse the existing door and frame.

Question 12: Please provide detail on the connection between the existing reveal in the precast panels and the restrooms entry.

Response 12: Horizontally. This detail C4/A800

Question 13: As per detail C4/A800, please confirm that tile has to be installed at the bottom of the upper section as shown.

Response 13: Confirmed. Tile shall be at the underside of framing.

Question 14: Per the interior elevations, sheets A703 and A702, there's a horizontal bracing indicated at the toilet partitions, please confirm that the intent is to install a bracing from the same materials and the same color as the toilet compartments, as the specified one doesn't come with the mentioned bracing and has to be added,

Response 14: Yes. The intent is to install horizontal bracing between each stile in the same material and color as the toilet partitions.

Question 15: The interior elevations, indicated to install B-2 base at the entry for the restrooms, where B-2 mentioned in the schedule as the Fry-Reglet – horizontal reveal – please advise.

Response 15: Wall Base Type B-2: Delete Fry Reglet DRM 625-600 from project.

Question 16: Please confirm that all of the cove lights won't require any valance trims to hide the fixtures, if there's any trims required. Please provide details and locations. Provide Specs for the corner cove.

Response 16:

Detail G6/A800, Specification for Corner Cove detail provided in Section 09310, Ceramic Tile, part 2,2.8,A

Detail G8/A800, Specification for Cove Base detail provided in Section 09310, Ceramic Tile, Part 2,2.8,B

Question 17: Is the work for the restrooms phased?

Response 17: No.

Question 18: How many restrooms at one time can be worked on?

Response 18: The work shall occur simultaneously for the restrooms that are contracted for.

Question 19: See Sheet P102; Is the intent to swap out the fixture or to change the piping?

Response 19: This project is a complete reconstruction and reconfiguration of the restrooms.

Question 20: If the piping is to be changed, are we attaching at the wall or do you want new line to the point of connection

Response 20: The plumbing drawings clearly show the POC.

Question 21: Is the point of connection above the ceiling or in the wall? Do you want the wall removed and rebuilt? See Note # 1 on P102

Response 21: The POC is in the wall. Regarding the wall removed or rebuilt – utilize all of the drawings to develop your means and methods.

Question 22: Toilet partition per specifications is Bobrick SCRC, ceiling hung, however, drawings (A701, etc.) indicate plastic partition, overhead braced. Please clarify if partitions are ceiling hung or overhead braced.

Response 22: Sheet S603 shows overhead bracing therefore bid accordingly.

C. CHANGES TO DRAWINGS AND SPECIFICATIONS:

1. **Sheet AD 200 – Concourse D – Level 2, Demo - Revise Plan**
2. **Sheet AD 601 – Notes clarified**
3. **Sheet AD 603 – Notes O & N have been added**
4. **Sheet A200 - Plan has been revised**
5. **Sheet A604 – Revised Toilet Accessories Schedule**
6. **Sheet A701- Revisions to Restroom elevations and Finish Schedule – Change CT-5 from Glass Reflections Urban Camouflage TO Suite Glass Boracay**
7. **E201 – Revised General Notes**
8. **Sheet P001 – Revision to Plumbing Fixture Schedule**

D. CHANGES TO SPECIFICATIONS

Remove and replace the following specifications in their entirety:

1. **Section 10155 – Toilet Compartments – (Revised Part 2,2.1, A Entirely)**
2. **Section 10801 – Toilet and Bath Accessories – (Revised Part 2,2.1, A Entirely)**
3. **Section 10810 - Electric Hand Dryer – (to include Xlerator XL-SB)**
4. **Section 09310 – Ceramic Tile – Tile Selection – (Revised part 2,2.1,D)**

E. All other terms and conditions of the IFB remain the same.

F. The Proposer shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of the proposal.

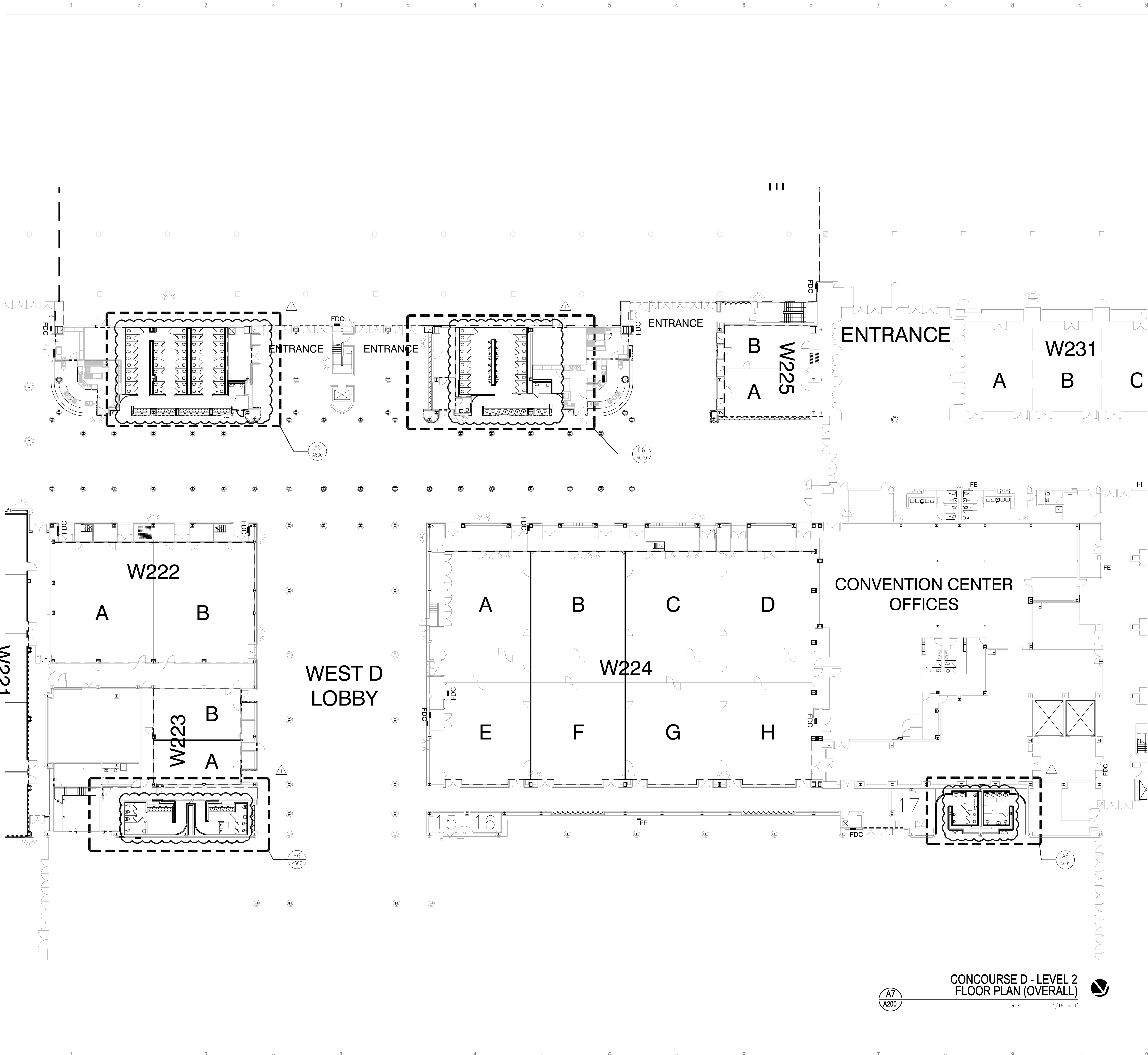
Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm



GENERAL NOTES

1. USE 5/8" TILE BACKER BOARD ON ALL WALLS WHERE TILE IS SCHEDULED.
2. REFER TO SHEET A301 FOR TOILET ACCESSORIES AND MOUNTING HEIGHTS.
3. CONTRACTOR TO MAINTAIN INTEGRITY OF FIRE RATED WALLS.
4. EXISTING SECURITY GATE IS TO BE REMOVED IN ITS ENTIRETY - TYP.
5. EXISTING CONSTRUCTION TO BE REUSED; CONTRACTOR IS RESPONSIBLE TO REPAIR/REPLACE MATERIAL DAMAGE DURING THE DEMOLITION PROCESS.
6. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND INSTALL ALL REQUIRED FIXTURE AND ACCESSORY MOUNTING BLOCKING.
7. CONTRACTOR RESPONSIBLE TO FURNISH AND INSTALL ALL WATERPROOFING, LEVELING COMPOUNDS, BONDING AGENTS, ADHESIVES AND GROUTS NECESSARY TO INSTALL THE TILE IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND MANUFACTURERS' REQUIREMENTS. IN EVENT OF A CONFLICT, THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO MORE STRINGENT INSTRUCTIONS.
8. TILE INSTALLER TO PROVIDE A TUSCAN LEVELING SYSTEM OR EQUAL WHEN SPACING FLOOR AND WALL TILES TO AVOID LIPPAGE AND TILE MOVEMENT DURING INSTALLATION.

FLOOR PLAN KEYNOTES

- (G1) MATCH AND ALIGN NEW CONSTRUCTION WITH EXISTING FINISHES.
- (G2) SAND, REMOVE CHIPS & RE-PAINT EXISTING JANITORS DOOR TO MATCH EXISTING COLOR.
- (G3) FURR OUT EXISTING MASONRY WALL WITH 3 5/8" METAL HAT CHANNELS AND 5/8" GYPSUM BOARD ONE FACE. RELOCATE ALL WALL MOUNTED DEVICES (I.E.: POWER, VOICE, DATA OUTLETS ETC.) PATCH/FILL ALL VOIDS IN STRICT ACCORDANCE TO EXISTING UL ASSEMBLY (CONTRACTOR TO VERIFY WALL ASSEMBLY).
- (G4) NEW PLUMBING FIXTURES. SEE PLUMBING SHEET FOR TYPE.
- (G5) LIQUID WATER PROOFING AT CHASE. SEE DETAIL E6/AB00 FOR TYP WATER PROOFING DETAIL.
- (G6) WATER PROOFING FOR TILE INSTALLATION. SEE DETAIL E6/AB00 FOR CHASE WATER PROOFING DETAIL.
- (G7) NEW THRESHOLD, REFER TO FINISH PLAN FOR DETAIL, G5/A225.
- (G8) CORNER COVE DETAIL, SHEET G8/AB00 FOR ADD'1 INFORMATION.
- (G9) TILE CT-6 INSTALLED VERTICAL TO ADJACENT PRECAST CONCRETE.
- (G10) NEW ADA WATER COOLER / BOTTLE FILLER. SEE PLUMBING FOR MODEL.
- (G11) RE-MOUNT EXISTING FIRE EXTINGUISHER & CABINET SALVAGED DURING DEMOLITION.
- (G12) CORNER EDGE DETAIL TYPICAL E2/AB00.
- (G13) RESTROOM IDENTIFICATION SIGNAGE - NEW.
- (G14) TILE MOVEMENT JOINT.

CONCOURSE D - LEVEL 2 FLOOR PLAN (OVERALL)
 scale: 1/16" = 1'



Orange County Convention Center
 Concourse D
 Restroom Renovations

Capital Planning Division
 9400 Universal Blvd
 Orlando, FL 32819

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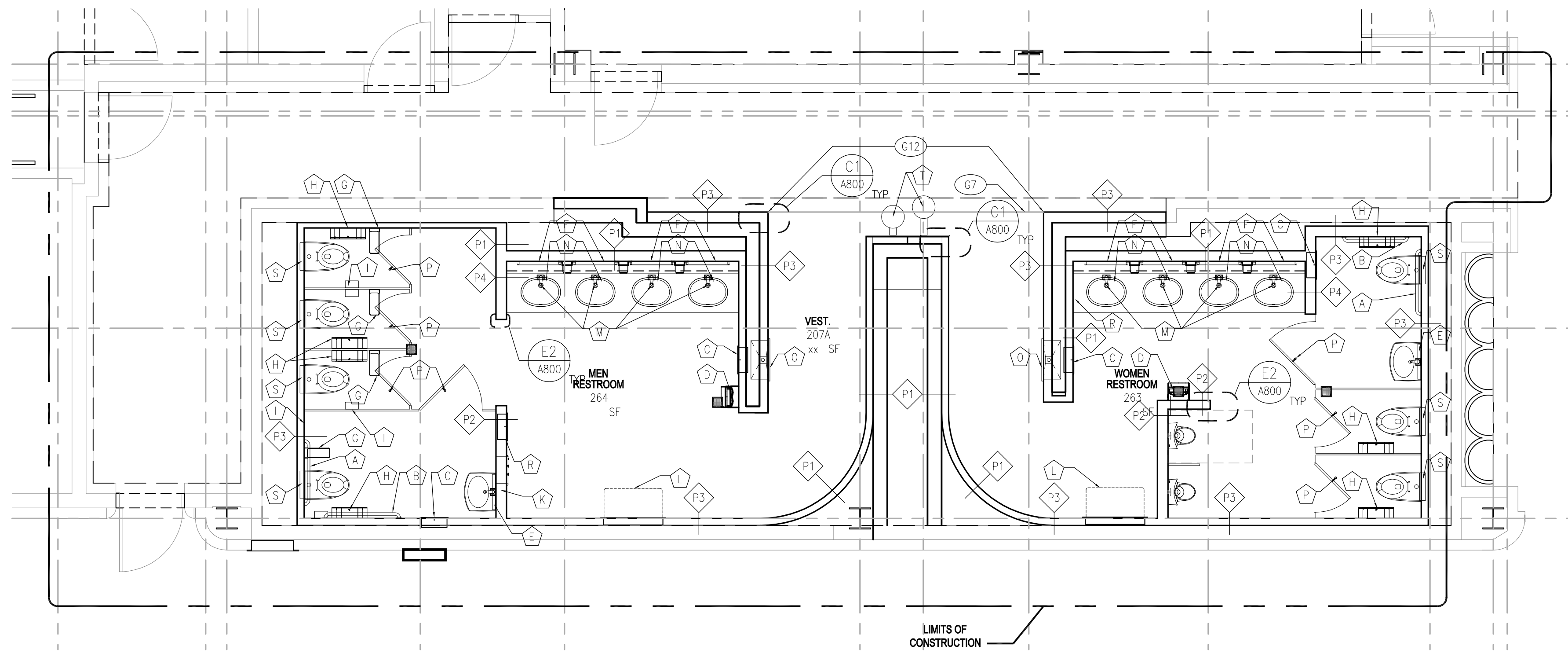
CONSTRUCTION DOCUMENTS

date	submittal/revision	no.
05-25-2016	ADDENDUM No01	1

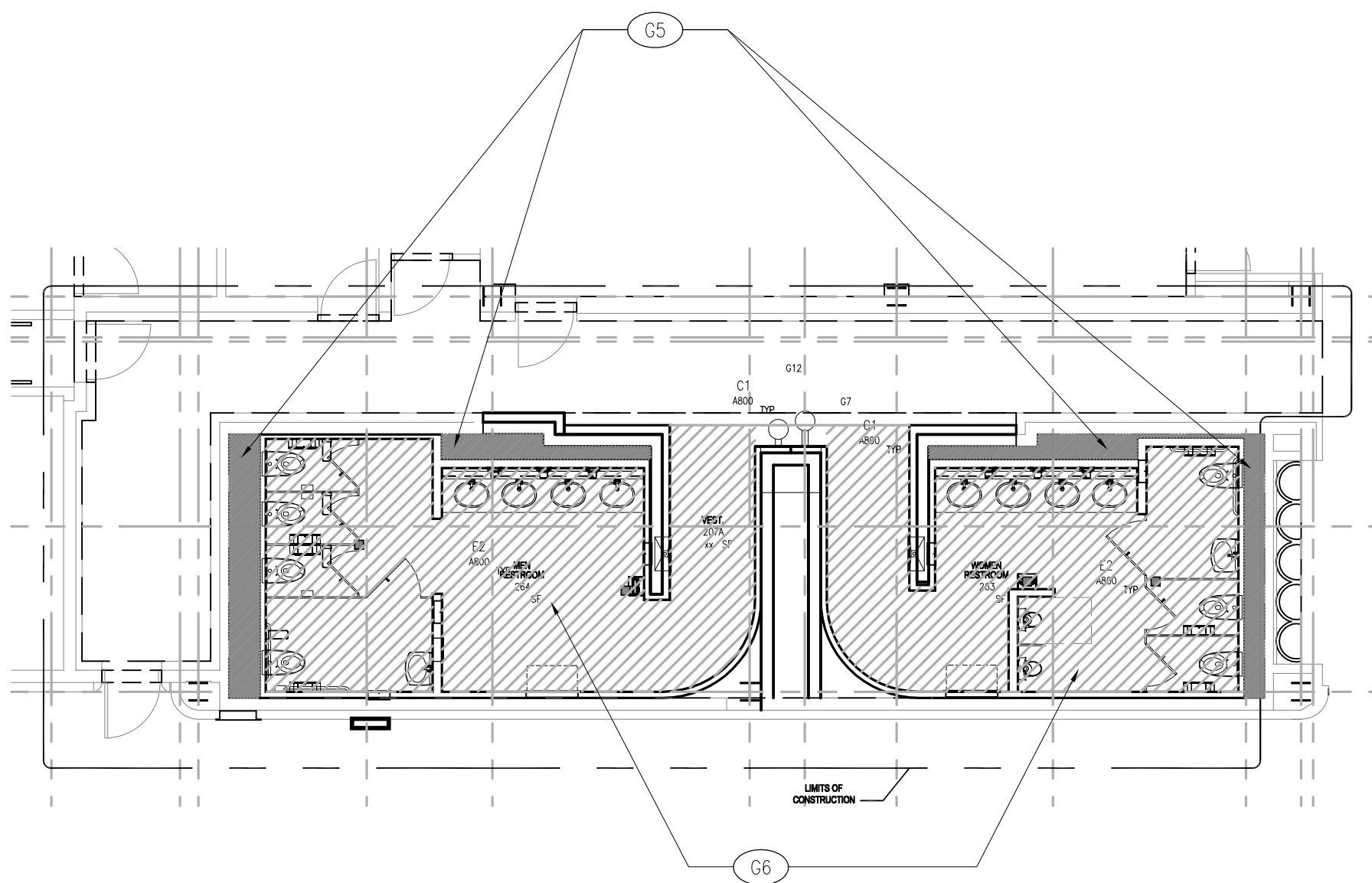
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 project no: 12003_0014

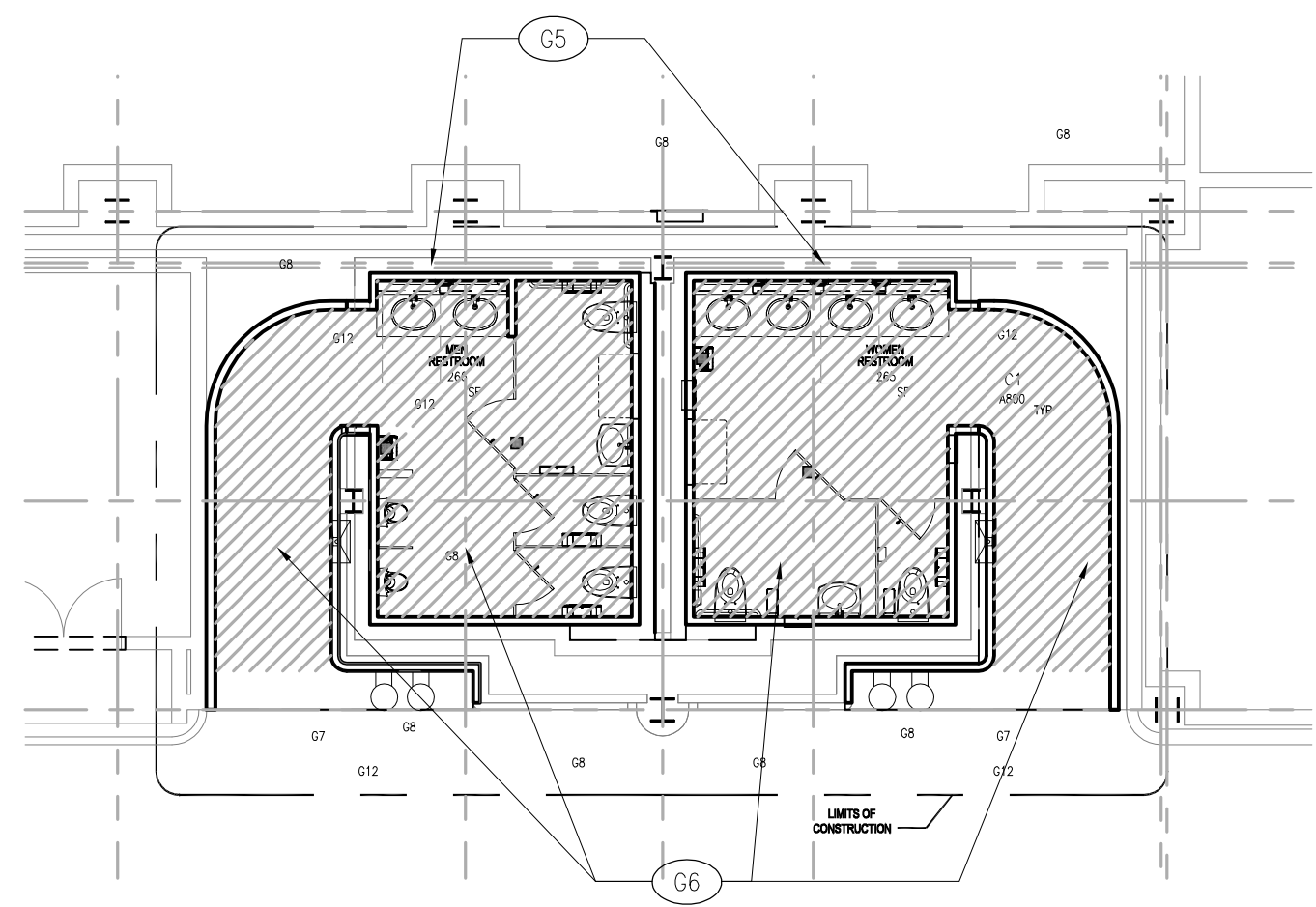
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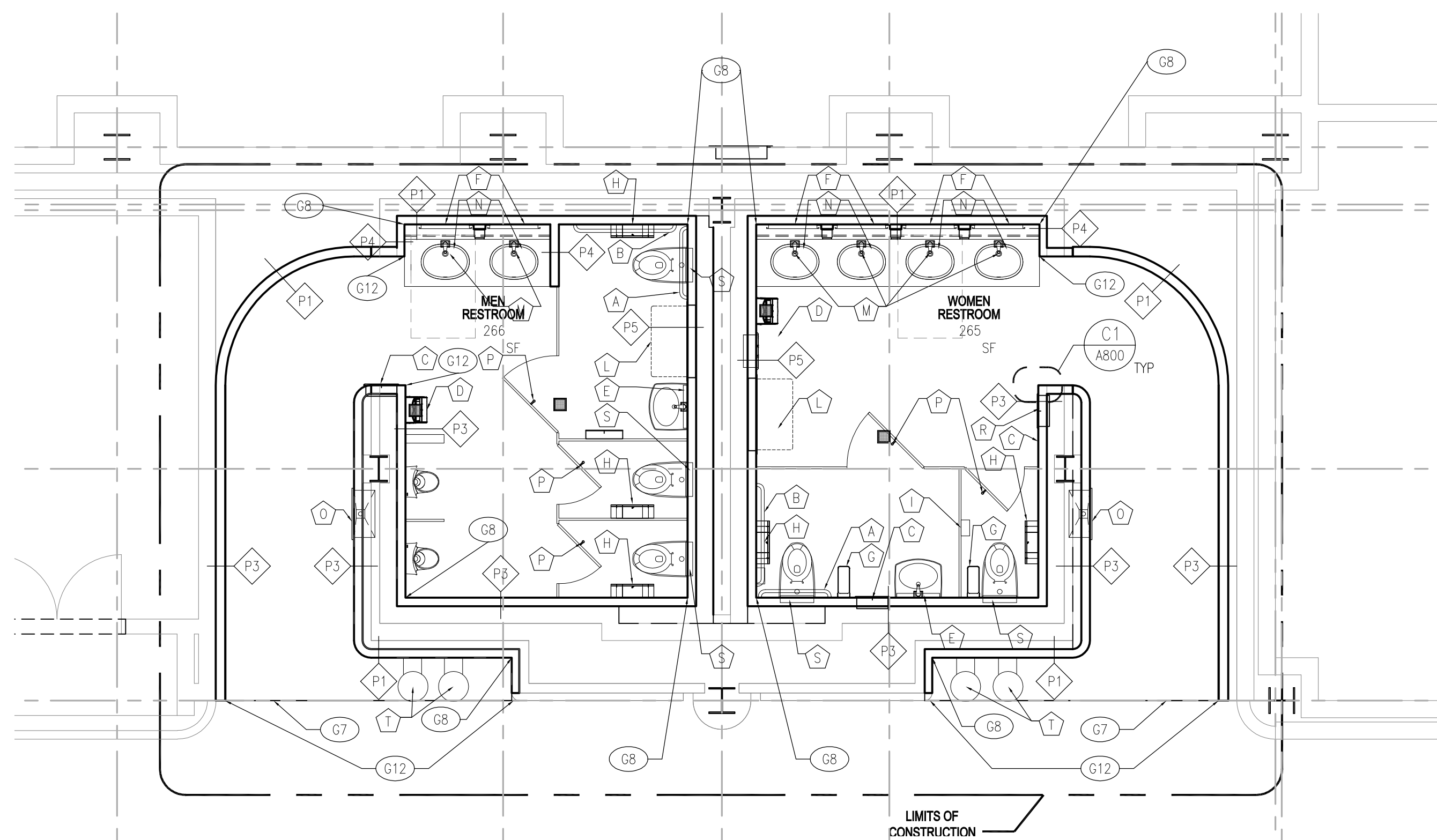
ADDITIVE NO. 01
CONCOURSE D - LEVEL 2
WOMEN'S ROOM 264/MEN'S ROOM 263
 scale: 1/4" = 1'



C1
A604 **WOMEN'S 264/MEN'S 263 WATERPROOFING PLAN**
 scale: 1/8" = 1'-0"



A1
A604 **WOMEN'S 265/MEN'S 263 WATERPROOFING PLAN**
 scale: 1/8" = 1'-0"



ADDITIVE NO. 02
CONCOURSE D - LEVEL 2
WOMEN'S ROOM 265/MEN'S ROOM 266
 scale: 1/4" = 1'

GENERAL NOTES

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- G4 NEW PLUMBING FIXTURES. SEE PLUMBING SHEET FOR TYPE.
- G5 LIQUID WATER PROOFING AT CHASE. SEE DETAIL E6/A800 FOR TYP WATER PROOFING DETAIL.
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- G12 CORNER EDGE DETAIL TYPICAL E2/A800.
- G13 RESTROOM IDENTIFICATION SIGNAGE - NEW.
- G14 TILE MOVEMENT JOINT.

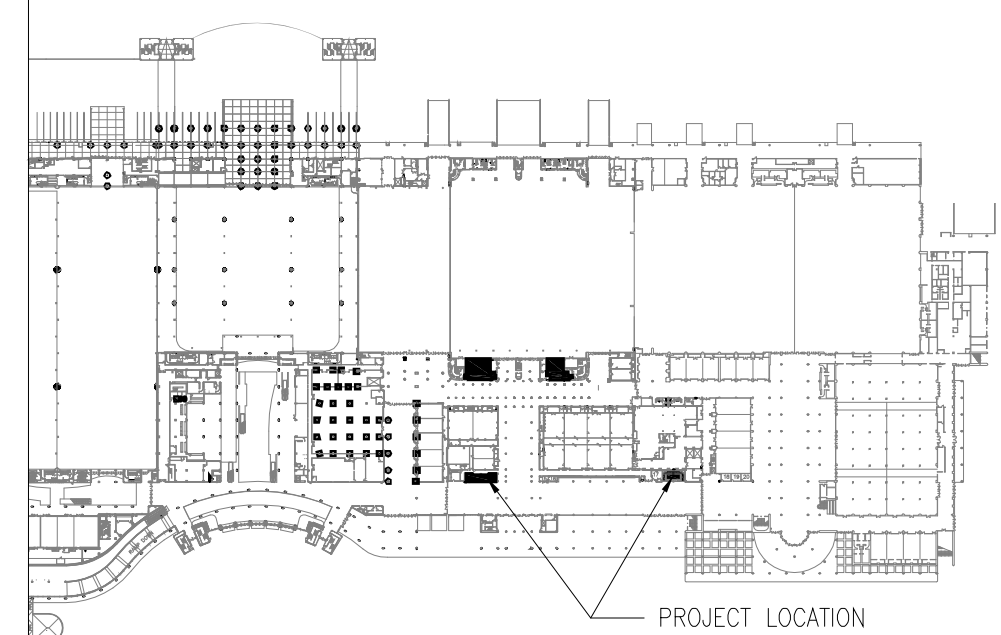
TOILET ACCESSORIES SCHEDULE

ITEM	DESCRIPTION	QUANTITY	NOTE
A	GRAB BAR 36"	1	ASI 3800 TYPE 01 W/ SNAP FLANGE
B	GRAB BAR 42"	1	ASI 3800 TYPE 01 W/ SNAP FLANGE
C	RECESSED WASTE RECEPTACLE	1	SURFACE MOUNTED ASI 0458-9
D	TROUGH DRYER	1	EXCEL DRYER XLERATOR XL-SB
E	MIRROR 18" X 30"	1	ASI 0535
F	MIRROR 24" X 36"	1	ASI 620
G	FOLDING UTILITY SHELF	1	ASI 0698
H	JUMBO ROLL SM TOILET TISSUE DISPENSER	1	TORK 5555290 BLACK JUMBO ROLL MINI TWIN
I	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	1	ASI 0852
J	NOT USED	1	NOT USED
K	RECESSED MOUNTED SANITARY NAPKIN DISPENSER	1	ASI 94684
L	BABY CHANGING STATION	1	ASI 9013-9
M	FAUCET	1	SLOAN EAF-100-PP-ISM -DPU-IC
N	SOAP DISPENSER	1	DIAL SDS
O	JANITORS CABINET ACCESSORY	1	ASI SPCABINET - SS
P	DOUBLE ROBE HOOK	1	ASI 7345
Q	SURFACE MOUNTED SHELF 8" X 48"	1	ASI 0692-0848
R	PAPER TOWEL DISPENSER	1	TORK ELEVATION MATIC - BLACK 5511281 (AUTO) W/ 3096 HWK DIRECT WIRE CONVERSION KIT
S	SEMI-RECESSED SEAT-COVER DISPENSER	1	ASI 9477 - SM
T	DRINKING FOUNTAIN	1	

- ALL HC ACCESSORIES SHALL MEET ADA, FLORIDA ACCESSIBILITY CODES, AND OTHER APPLICABLE ACCESSORY REQUIREMENTS.
- ALL ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ARE TO BE INSTALLED AT ACCEPTED HEIGHTS. PROVIDE BLOCKING AND WALL REINFORCEMENT AS REQUIRED FOR MOUNTING OF REST ROOM ACCESSORIES AND FIXTURES.
- WRAP EXPOSED PLUMBING BELOW H/C SINK W. ADA COMPLIANT SAFETY COVERS (SOFT PAC COVERS).
- OWNER SUPPLIED / CONTRACTOR INSTALLED ACCESSORIES. CONTRACTOR TO COORDINATE ACCESSORY LOCATIONS W/ OWNER AND PROVIDE REQUIRED BLOCKING.
- HORIZONTAL BRACING AT PARTITIONS TO MATCH PARTITION COLOR, FINISH AND MATERIAL - TYP.
- MANUFACTURERS FOR PLUMBING FIXTURES AND ACCESSORIES LISTED ARE BASIS OF DESIGN. CONTRACTOR SHALL PROVIDE PRODUCT LISTED OR APPROVED EQUAL.

PLAN LEGEND

- METAL STUD PARTITION, SEE PARTITION TYPES
- EXISTING WALL TO REMAIN PROTECT FROM DAMAGE
- EXISTING FIRE RATED WALL TO REMAIN PROTECT FROM DAMAGE



KEYPLAN

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 ORLANDO, FL 32801
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 AA 0002809
 www.rhodesandbrito.com

Orange County
 Convention Center

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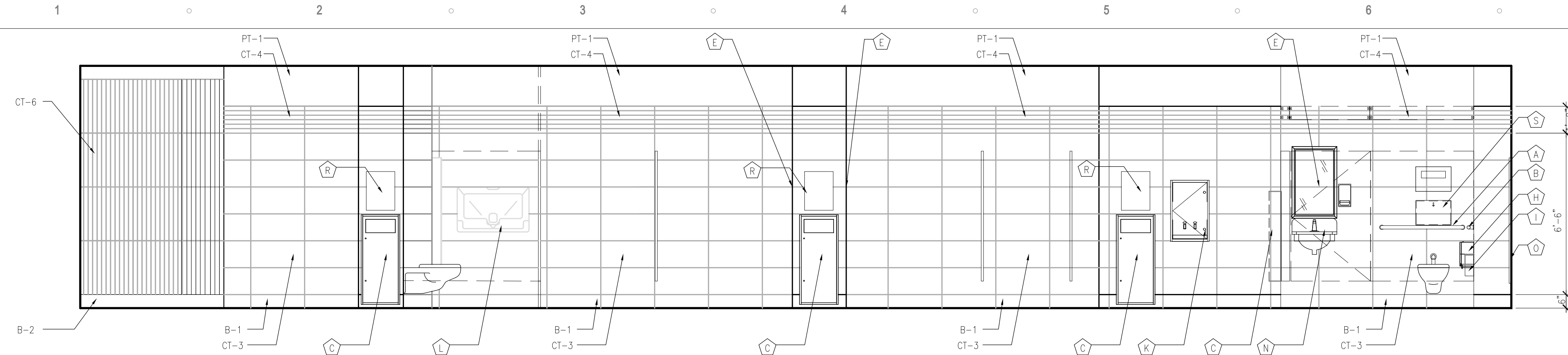
CONSTRUCTION DOCUMENTS

date	submittal/revision	no.
05-25-2016	ADDENDUM No01	

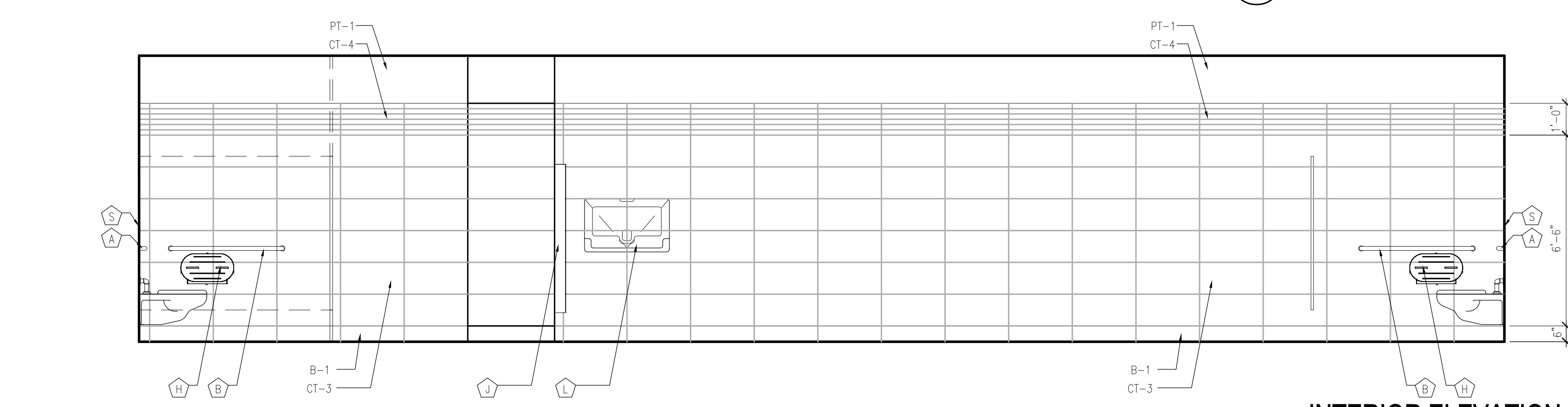
**CONCOURSE D, LEVEL 2,
 ENLARGED FLOOR PLANS,
 RMS 263/264 AND 265/266**

scale: as shown
 drawn: LF, FD
 check: DW
 date: February 24, 2016
 project no: 12003_0014

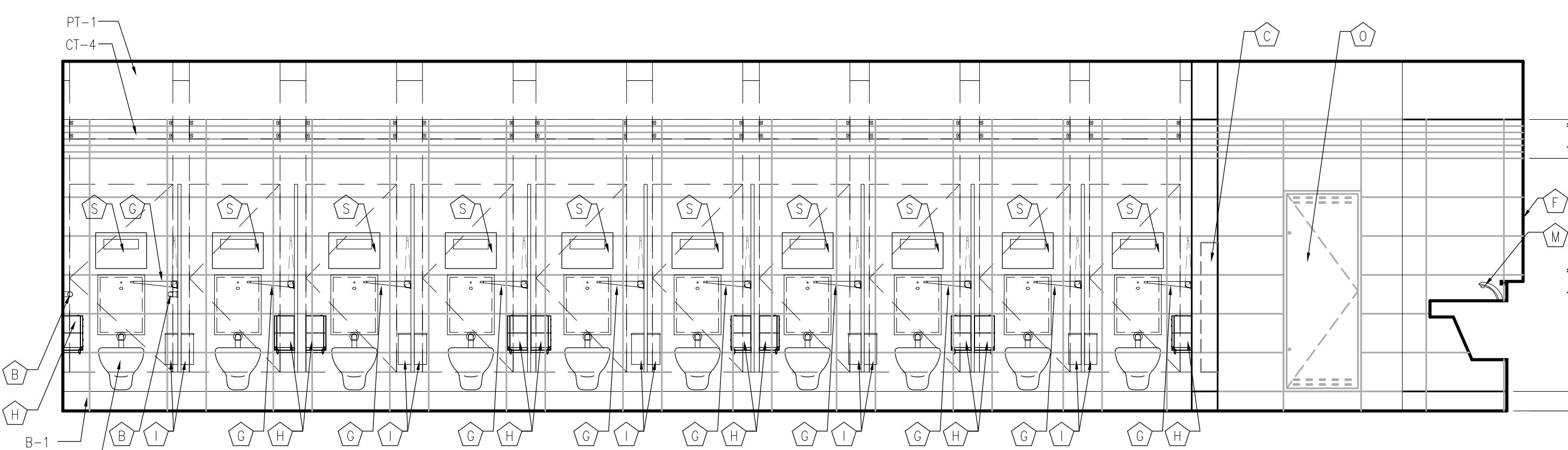
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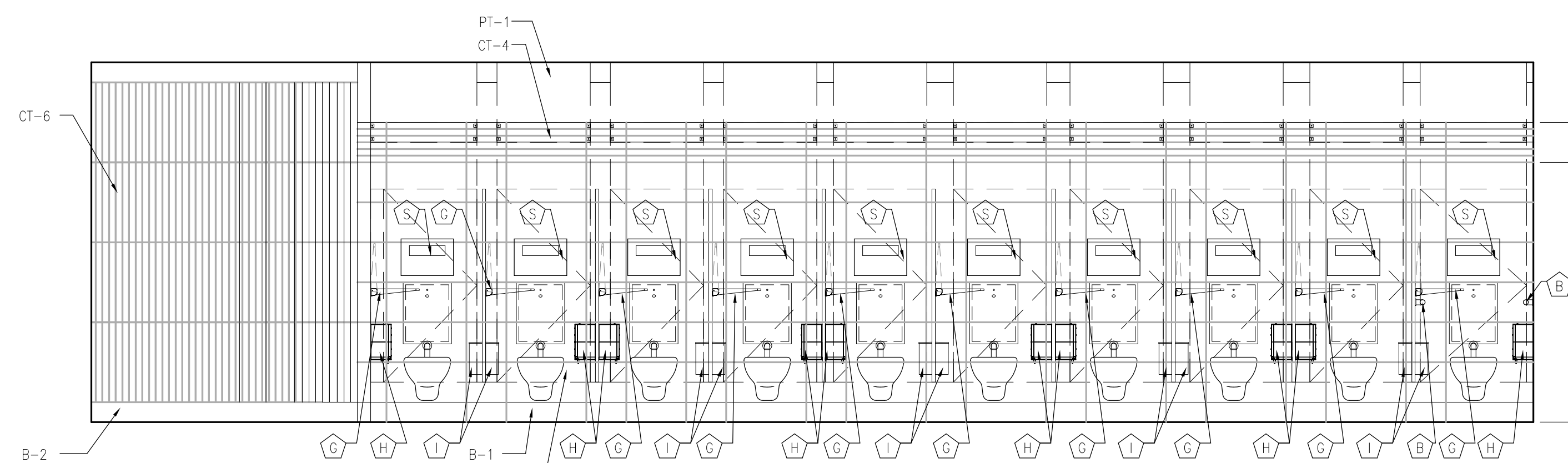
G4 A701 INTERIOR ELEVATION - WOMEN RM 261
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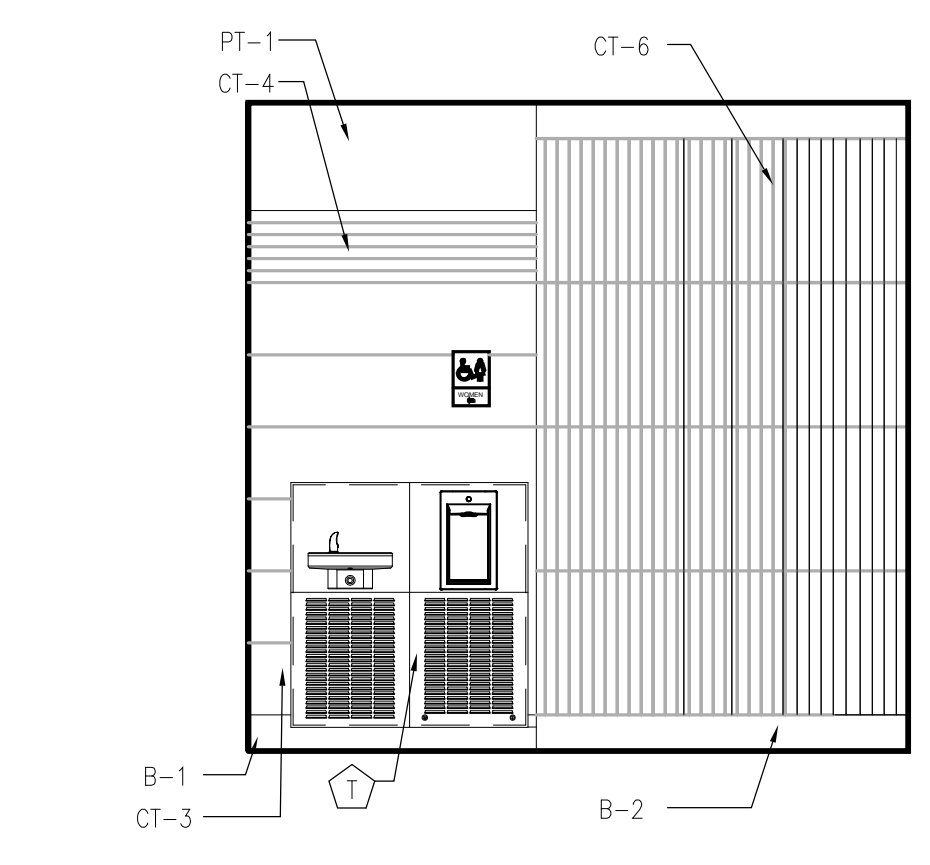
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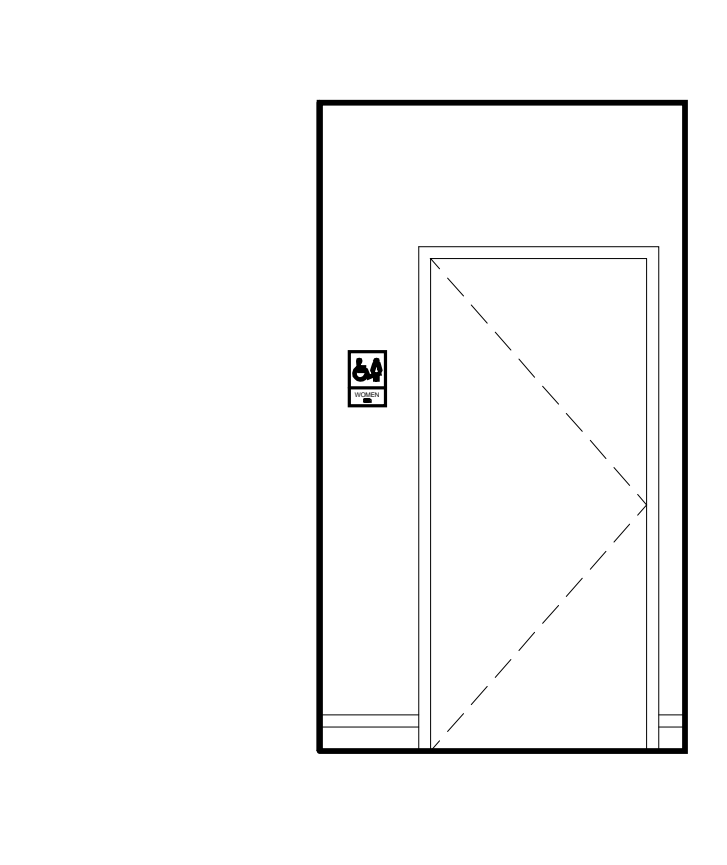
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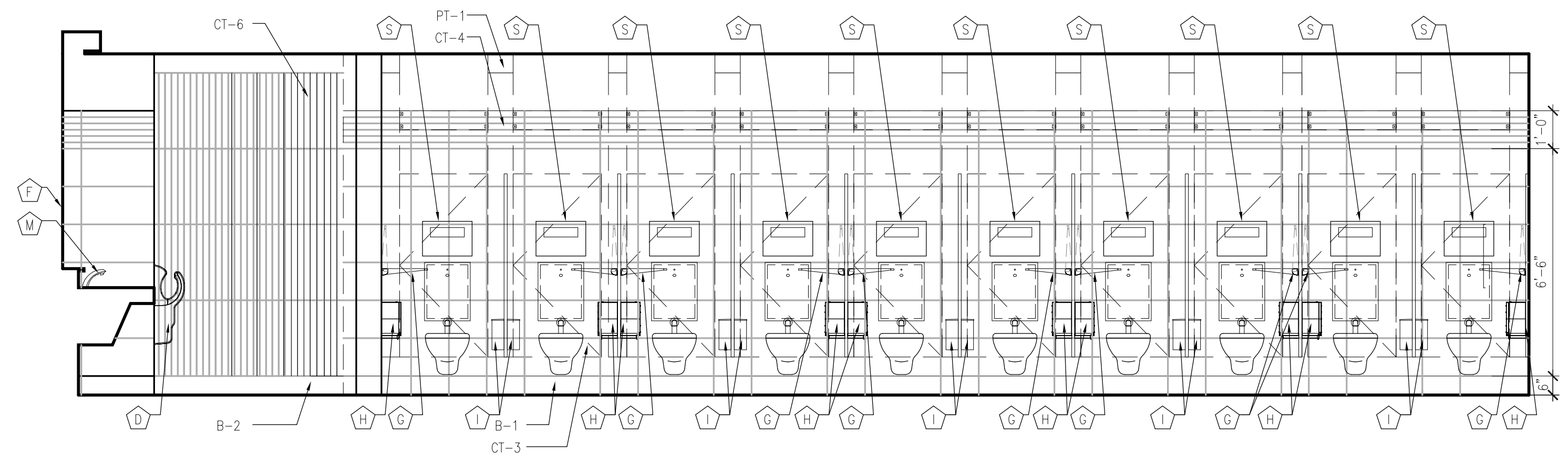
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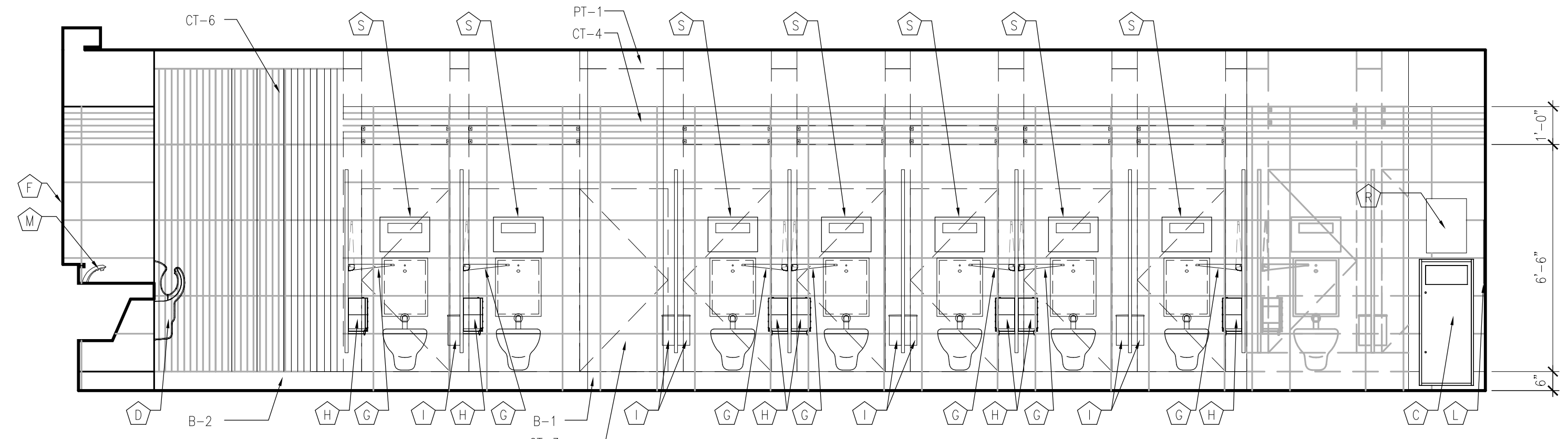
C1 A701 ELEVATION AT ENTRY RM 261
scale: 3/8"=1'-0"



C2 A701 ELEVATION AT ENTRY RM 261
scale: 3/8"=1'-0"



C6 A701 INTERIOR ELEVATION - WOMEN RM 261
scale: 3/8"=1'-0"



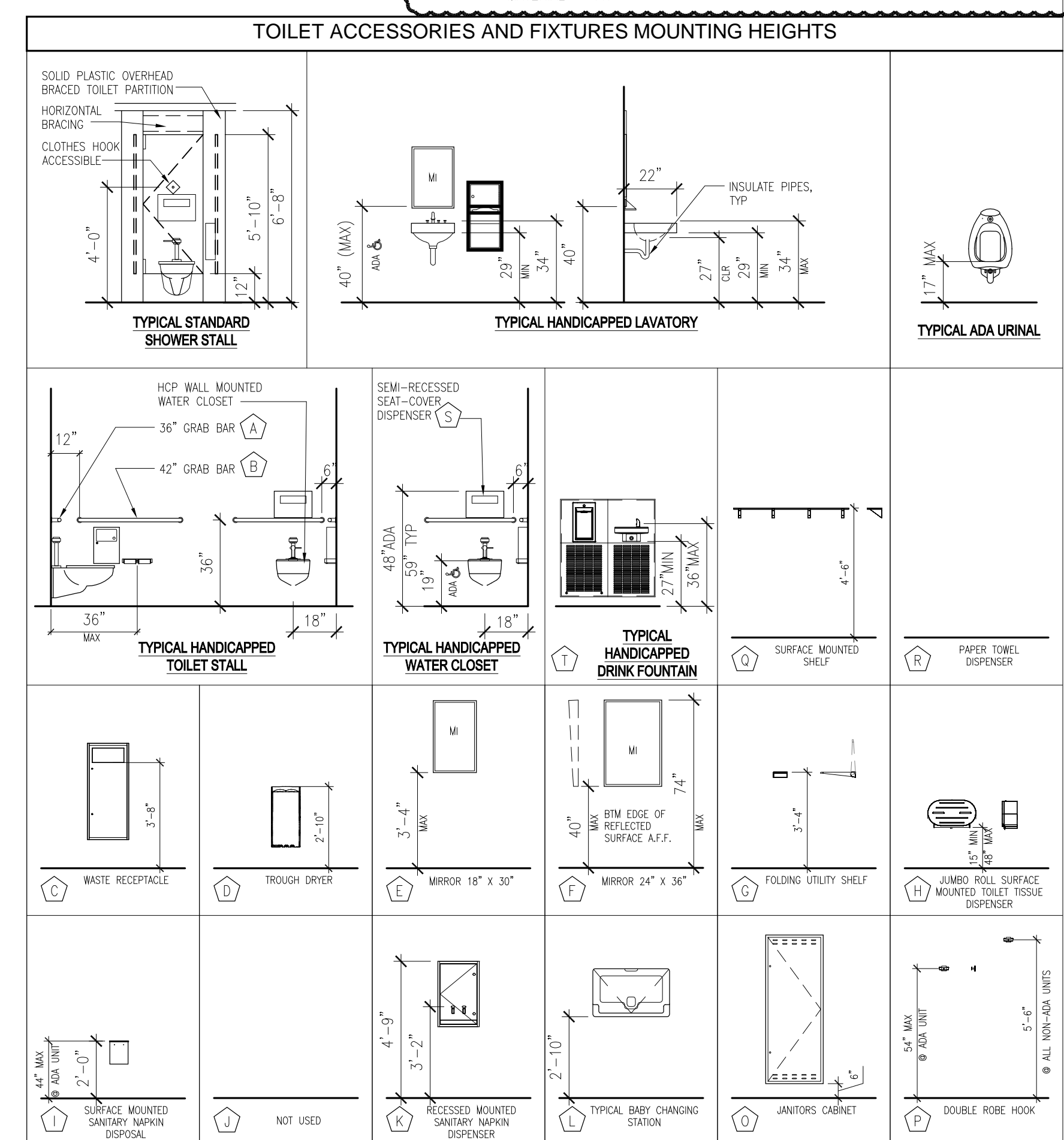
A6 A701 INTERIOR ELEVATION - WOMEN RM 261
scale: 3/8"=1'-0"

ROOM FINISH SCHEDULE HALL "B"									
ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING		NOTES
			N	E	S	W	MTRL.	FNSH.	
MEN	CT-1/CT-2/CT-8	B1	CT-3/CT-4/CT-5/PT	CT-3/CT-4/PT	CT-3/CT-4/PT	CT-3/CT-4/PT	GYP. BD.	PT	REFER TO INTERIOR ELEVATIONS
VESTIBULE	CT-2	B2	CT-6	CT-6	CT-6	CT-6	EXIST.	PT	
WOMEN	CT-1/CT-2/CT-8	B1	CT-2/CT-3/PT	CT-2/CT-3/PT	CT-1/CT-2/CT-3/PT	CT-2/CT-3/PT	GYP. BD.	PT	REFER TO INTERIOR ELEVATIONS
JANITOR	EXIST.	EXIST.	PT	PT	PT	PT	EXIST.	PT	

ROOM FINISH KEY						
FINISH	KEY		MANUFACTURER	DESCRIPTION	COLOR	NOTES
	FNSH.	COLOR				
FLOORING						
CERAMIC TILE	CT-1		DALTILE	EVER 24X24	EARTH EV05	
CERAMIC TILE	CT-2		DALTILE	EVER 12X24	EARTH EV05	
CERAMIC TILE	CT-8		DALTILE	EVER 12X12	EARTH EV05	
BASE						
WALL BASE	B1		DALTILE	EVER	EARTH EV05	
WALL BASE	B2		DALTILE	EVER	EARTH EV05	CUT 1" X 6" HEIGHT AND ALIGN WITH CT - 6 ABOVE
WALLS/FRAMES						
CERAMIC TILE	CT-3		GRANITI FIANDRE	NEW MARM OLYMPIA 12X24 POLISHED		
CERAMIC TILE	CT-4		GRANITI FIANDRE	NEW MARM OLYMPIA 12X24 STAVE POLISHED (1X24)	HORIZONTAL	
CERAMIC TILE	CT-5		MAPEL	SUITE GLASS BORACAY		CUSTOM MOUNT GLASS BLEND
CERAMIC TILE	CT-6		GRANITI FIANDRE	NEW MARM OLYMPIA 12X24 POLISHED	VERTICAL	
CERAMIC TILE	CT-7		GRANITI FIANDRE	NEW MARM OLYMPIA 12X12 POLISHED	VERTICAL	
PAINT	PT		SHERWIN-WILLIAMS	TBD (SEE SPECIFICATIONS)		
PAINT	PT-2		SHERWIN-WILLIAMS	TBD (SEE SPECIFICATIONS)		
TOILET PARTITION - WOMEN	TP-1	SC02	BOBRICK	DESERT BEIGE		

TOILET ACCESSORIES SCHEDULE		
A	GRAB BAR 36"	ASI 3800 TYPE 01 W/ SNAP FLANGE
B	GRAB BAR 42"	ASI 3800 TYPE 01 W/ SNAP FLANGE
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D	TROUGH DRYER	EXCEL DRYER XLERATOR XL-SB
E	MIRROR 18" x 30"	ASI 0535
F	MIRROR 24" x 36"	ASI 620
G	FOLDING UTILITY SHELF	ASI 0698
H	JUMBO ROLL SM TOILET TISSUE DISPENSER	TORK 5555290 BLACK JUMBO ROLL MINI TWIN
I	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	ASI 0852
J	NOT USED	NOT USED
K	RECESSED MOUNTED SANITARY NAPKIN DISPENSER	ASI 94684
L	RECESSED MOUNTED SANITARY NAPKIN DISPENSER	ASI 94684
M	BABY CHANGING STATION	ASI 9013-9
N	FAUCET	SLOAN EAF-100-P-ISM-DPU-IC
O	SOAP DISPENSER	DIAL SDS
P	JANITORS CABINET ACCESSORY	ASI SPACABINET - SS
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U	DRINKING FOUNTAIN	

- ALL HC ACCESSORIES SHALL MEET ADA, FLORIDA ACCESSIBILITY CODES, AND OTHER APPLICABLE ACCESSORY REQUIREMENTS.
- ALL ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ARE TO BE INSTALLED AT ACCEPTED HEIGHTS. PROVIDE BLOCKING AND WALL REINFORCEMENT AS REQUIRED FOR MOUNTING OF REST ROOM ACCESSORIES AND FIXTURES.
- WRAP EXPOSED PLUMBING BELOW H/C SINK W. ADA COMPLIANT SAFETY COVERS (SOFT PVC COVERS). OWNER SUPPLIED / CONTRACTOR INSTALLED ACCESSORIES; CONTRACTOR TO COORDINATE ACCESSORY LOCATIONS W/ OWNER AND PROVIDE REQUIRED BLOCKING.
- HORIZONTAL BRACING AT PARTITIONS TO MATCH PARTITION COLOR, FINISH AND MATERIAL - TYP
- DRINKING FOUNTAIN



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CONSTRUCTION DOCUMENTS

date	submittal/revision	no.
05-25-2016	ADDENDUM No01	1

RESTROOM ELEVATIONS ACCESSORIES AND FINISH SCHEDULE

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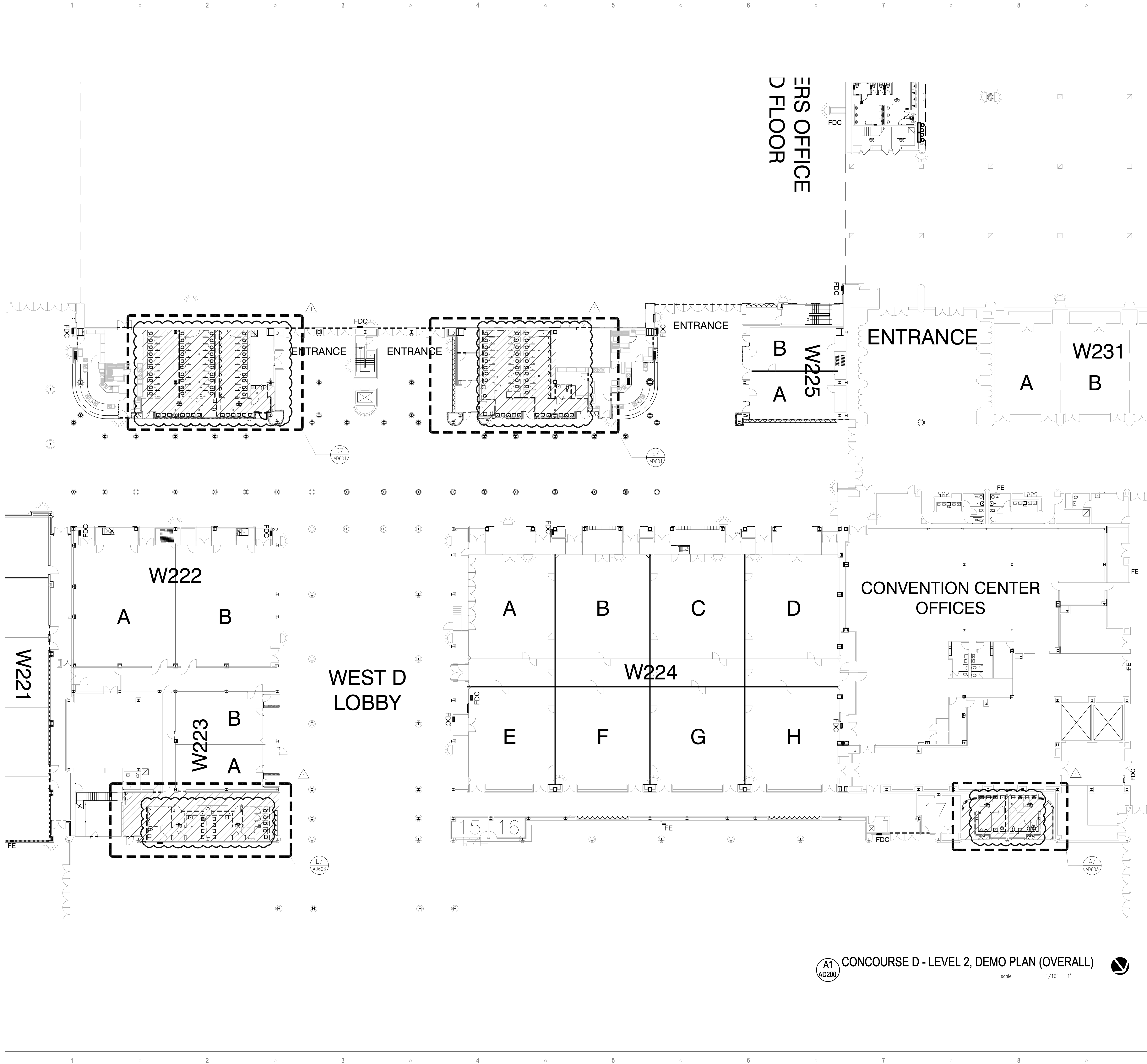
drawn: _____ LF, FD

check: _____ DW

date: February 24, 2016

project no: 12003_0014

A701



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CONCOURSE D - LEVEL 2, DEMO PLAN (OVERALL)

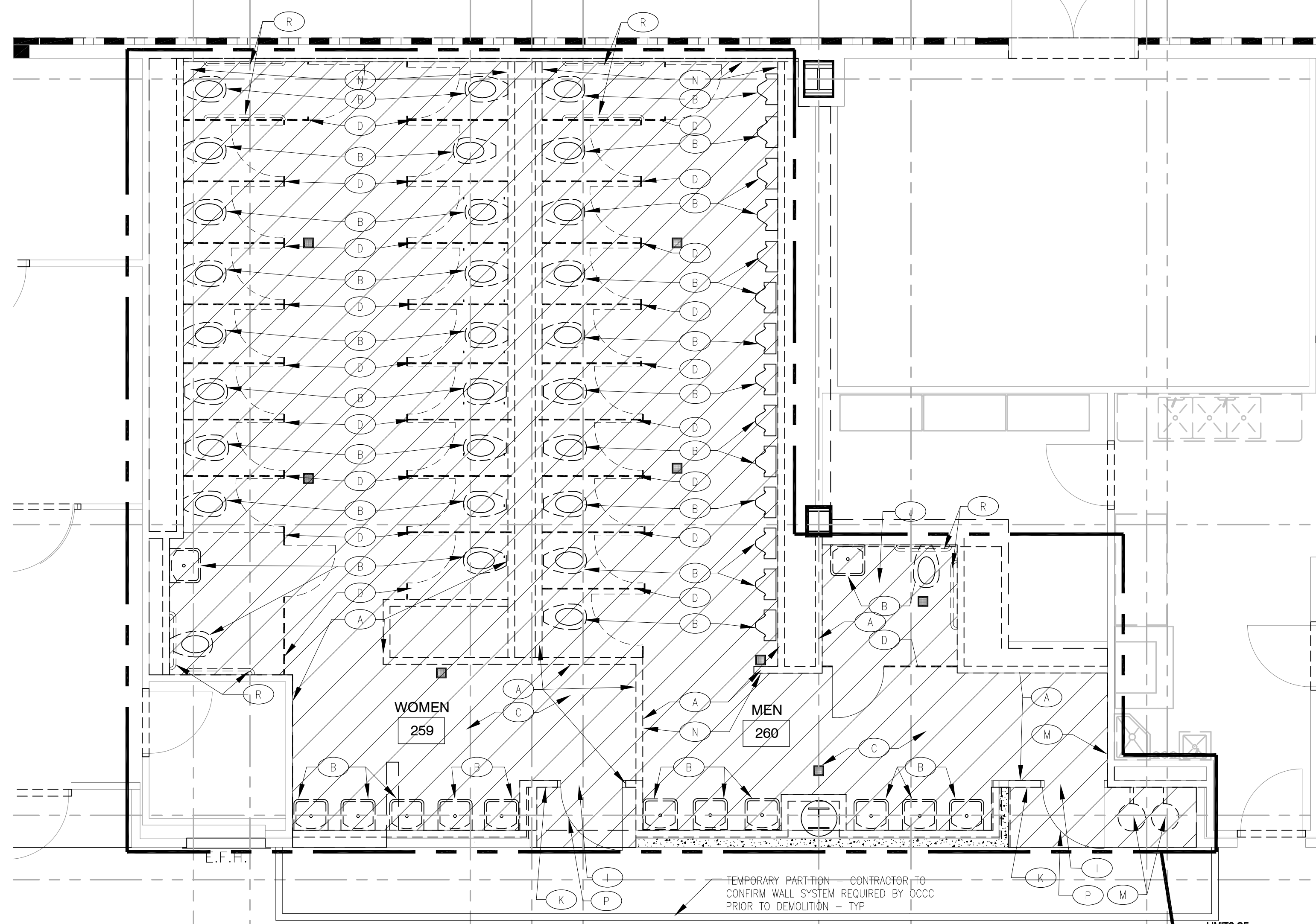
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date:	February 24, 2016
project no:	12003_0014

AD200

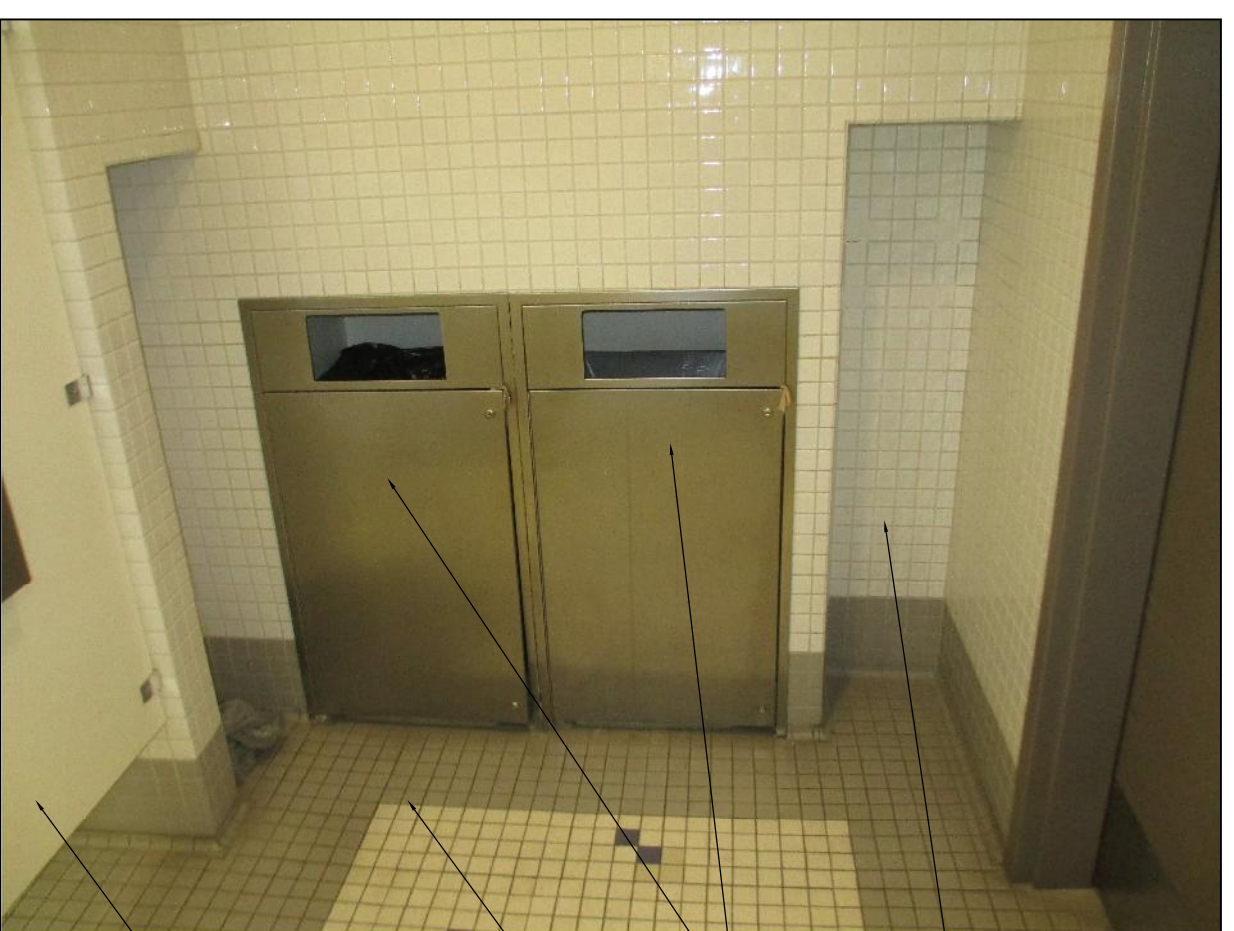
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E3
AD601
CONCOURSE D - LEVEL 2
EXISTING IMAGES - ROOMS 259/260
scale: NTS



E7
AD601
CONCOURSE D - LEVEL 2
DEMO PLAN - ROOMS 259/260
scale: 1/4" = 1'



A3
AD601
CONCOURSE D - LEVEL 2
EXISTING IMAGES - ROOMS 261/262
scale: NTS



A7
AD601
CONCOURSE D - LEVEL 2
DEMO PLAN - ROOMS 261/262
scale: 1/4" = 1'

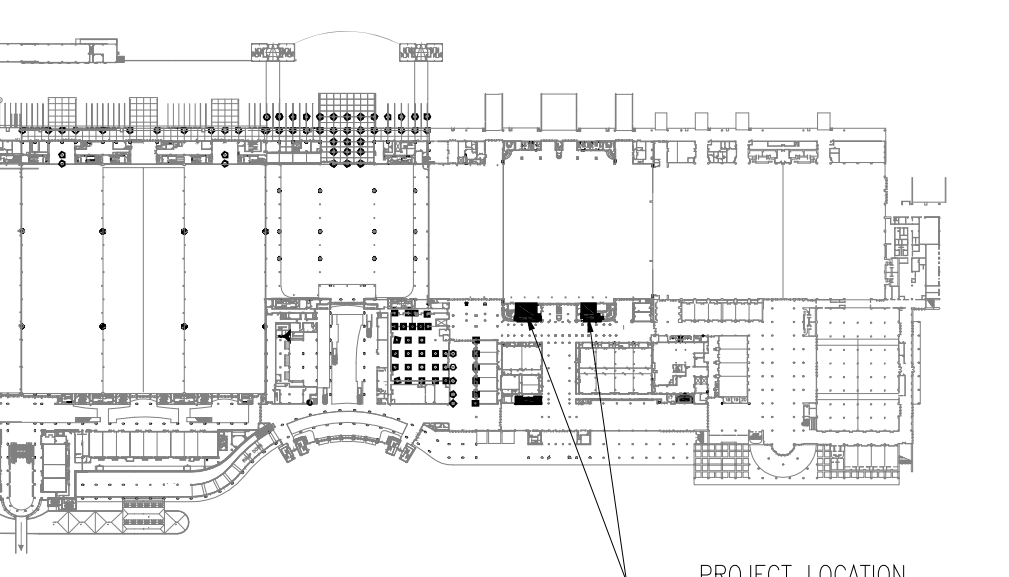
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DEMOLITION FLOOR PLAN AREA SEE KEY NOTES FOR MORE DETAIL.



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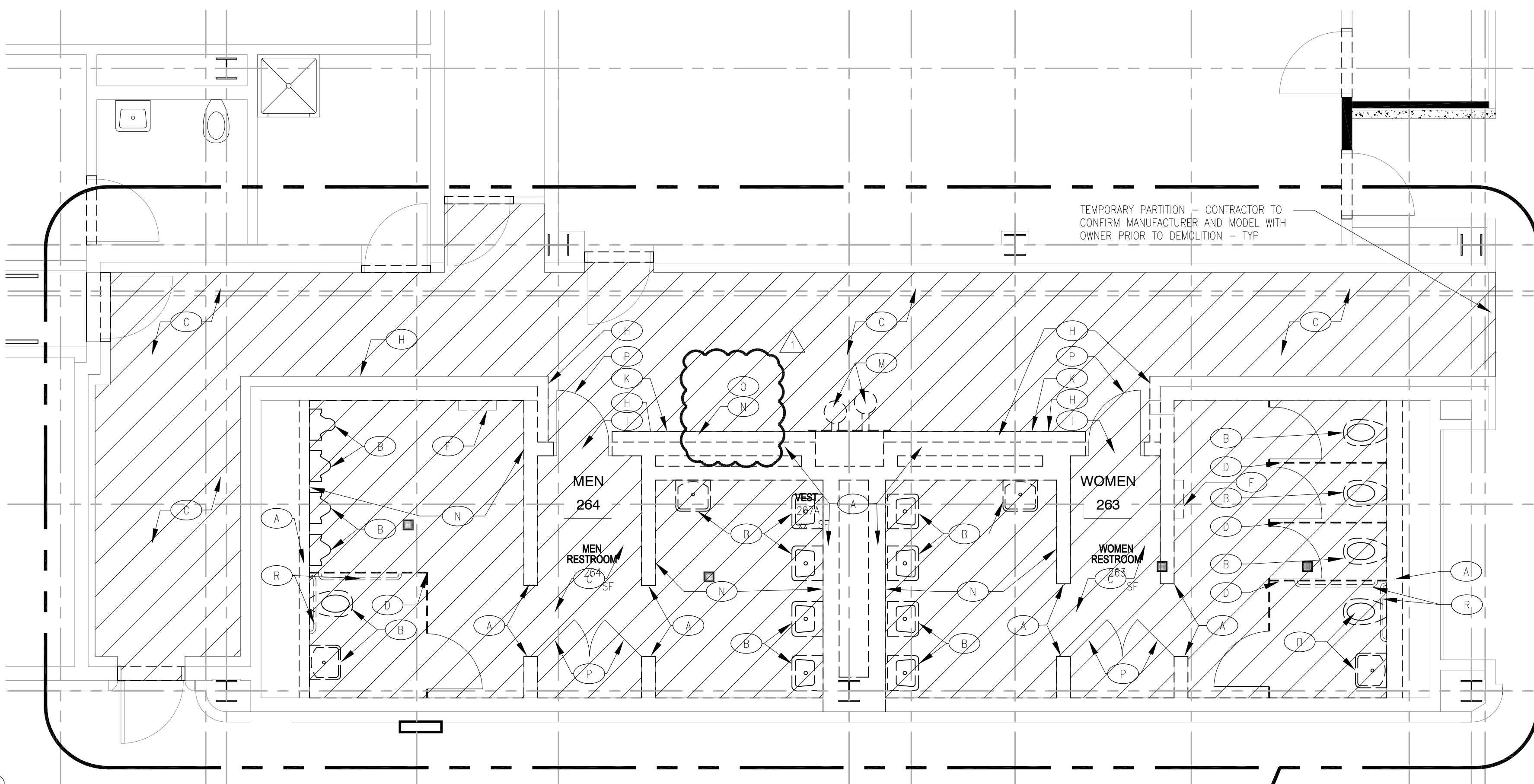
**CONCOURSE D,
LEVEL 2, ENLARGED
DEMO PLANS, RMS
259/260 AND 261/262**

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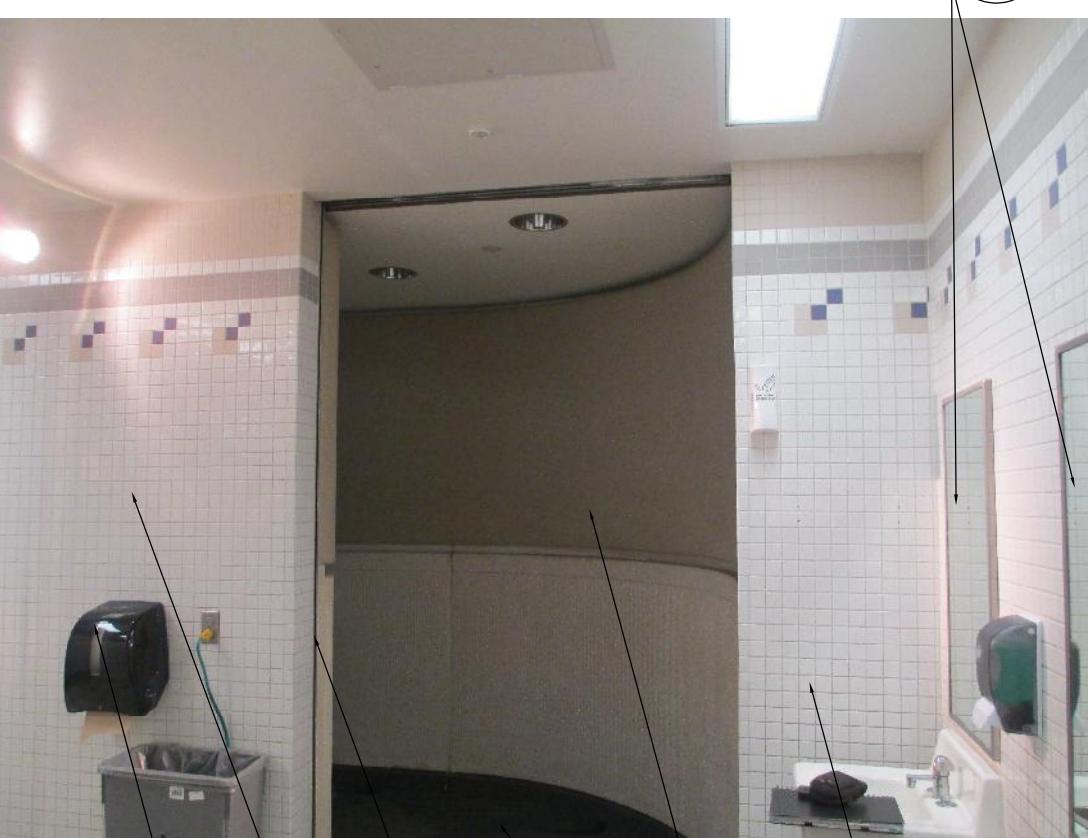
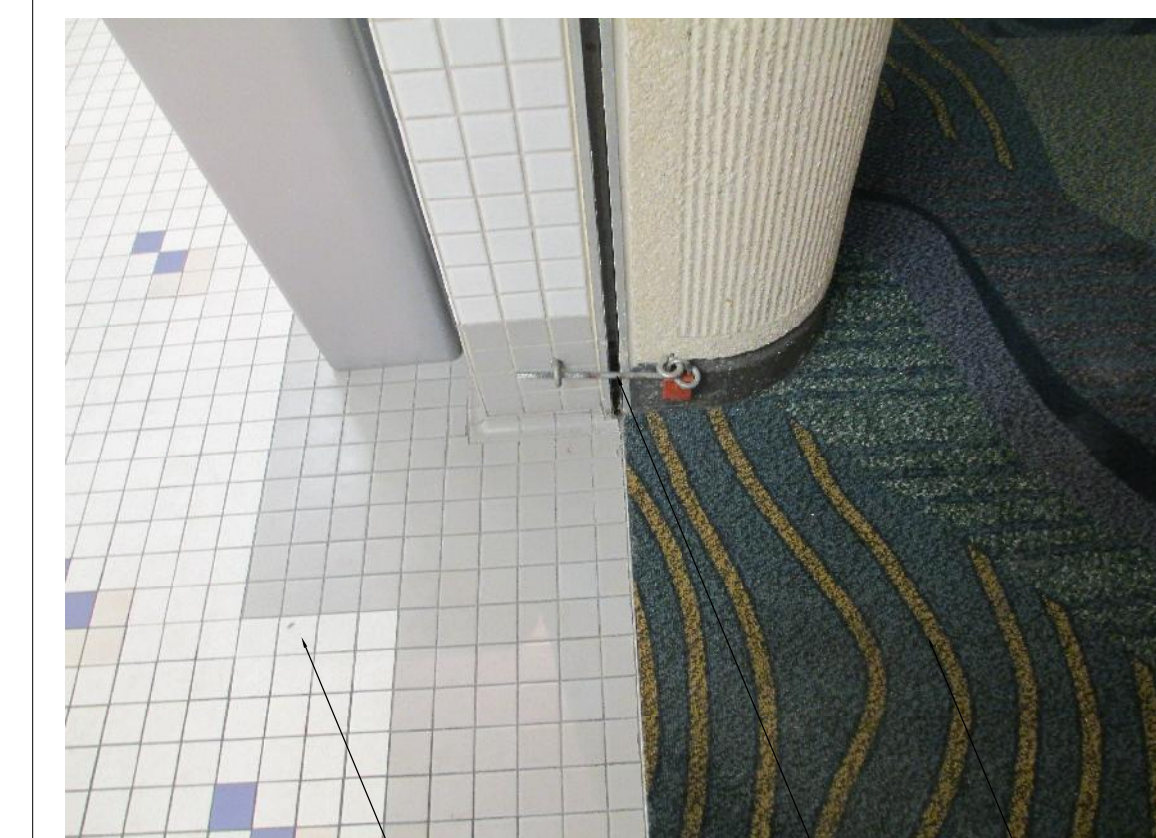
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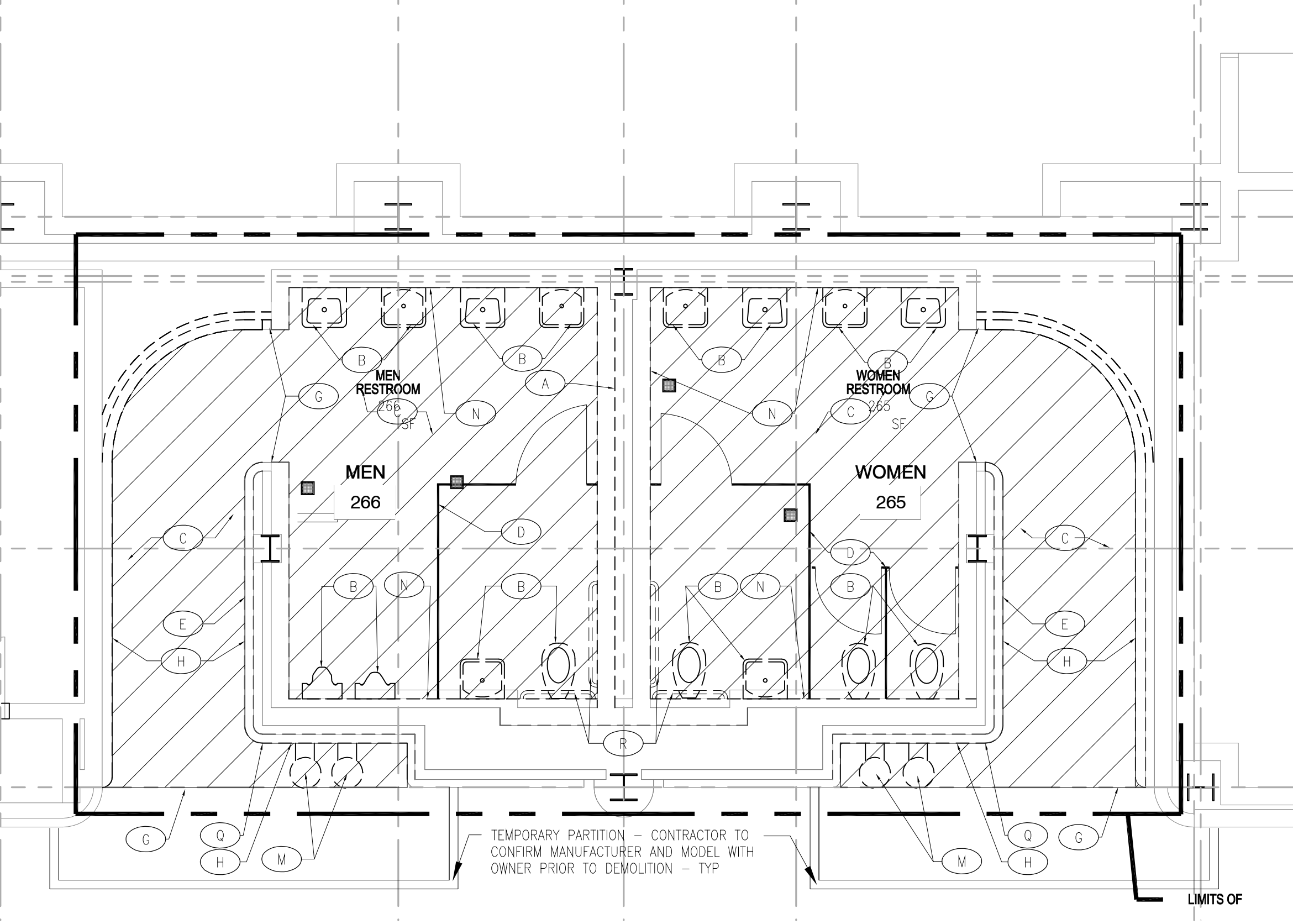
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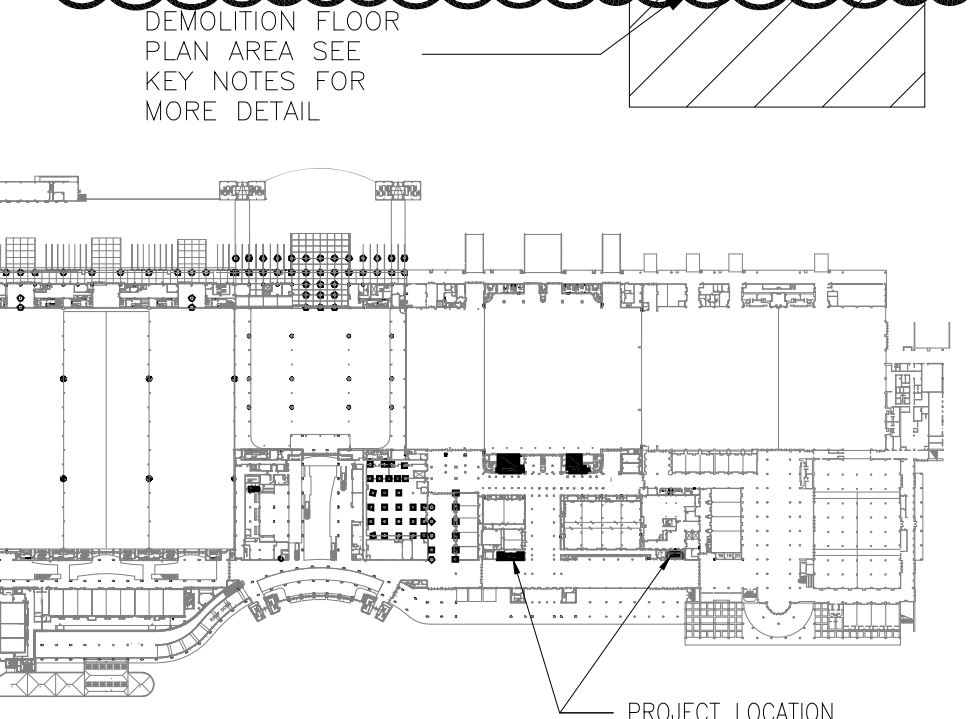
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DEMO PLAN - ROOMS 265/266
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 A7
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CONCOURSE D, LEVEL 2
ENLARGED DEMO PLANS,
RMS 263/264 AND 265/266

scale: as shown
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AD603

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01300	SUBMITTALS
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01320	CONSTRUCTION PROGRESS DOCUMENTATION
01323	PHOTOGRAPHIC DOCUMENTATION
01335	SUBMITTAL SCHEDULE
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15101	DOMESTIC WATER PIPING SPECIALTIES
15200	SANITARY WASTE AND VENT PIPING
15201	SANITARY WASTE PIPING SPECIALTIES
15300	PLUMBING FIXTURES
15815	METAL DUCTS
15820	DUCTS ACCESSORIES
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DIVISION 16 - ELECTRICAL

16072	ELECTRICAL SUPPORTS
16075	ELECTRICAL IDENTIFICATION
16120	CONDUCTORS AND CABLES
16130	RACEWAYS & BOXES
16140	WIRING DEVICES
16511	INTERIOR LIGHTING
16701	COMMON WORK RESULTS
16742	PAGING SYSTEM
16781	FIRE ALARM SYSTEM

SECTION 09310 - CERAMIC TILE

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Tile
2. Threshold
3. Waterproof membrane for thin-set tile installations.
4. Finishing and edge-protection profiles for walls and countertops
5. Movement joint and cove-shaped profiles

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show locations of each type of tile and tile pattern.

C. Samples for Verification:

1. Full-size units of each tile type and for each color and finish required.

1.3 QUALITY ASSURANCE

A. Source Limitations for Tile: Obtain all tile from one source or producer.

1. Obtain tile from same production run and of consistent quality in appearance and physical properties for each contiguous area.

B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

C. Preinstallation Conference: Conduct conference at Project site.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement in ANSI A137.1 for labeling sealed tile packages. Comply with materials manufacturer's instructions and recommendations for storing and handling.

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

1.6 EXTRA MATERIALS

- A. Provide for Owner's use a minimum of five percent (10%) of the primary sizes and colors of tile specified, boxed and clearly labeled.

1.7 WARRANTY

- A. Provide the Following:
 - 1. Warrantee in writing that work under this Section shall be free from defects of materials and workmanship from date of Substantial Completion of building for a period of one (1) year.
 - 2. Warrantee shall provide for complete replacement of defective areas, including costs required in the replacement of any item that may be affected by such failure and replacement.
 - 3. Replacements shall match adjacent surfaces in color texture and finish.

PART 2 - PRODUCTS

2.1 TILE

- A. Products and Manufacturers: Refer to the Room Finish Key on the Drawings. Manufacturers listed are the Basis of Design, or Approved Equal

- B. Floor Tile:

- 1. CT-1, CT-2 & CT-8:
 - a. Description: Daltile.
 - b. Color: Earth EV05
 - c. Grout Color: To be selected by the Owner from manufacturer's full line.
 - d. Joint Width: 1/8".
 - e. Tile Installation Method:
 - i. Metal Studs or Furring Substrates: TCA F122 using Latex Portland Cement Mortar and Epoxy Grout.

- C. Wall Tile:

- 1. CT-3, CT-4, CT-5, CT-6 & CT-7:
 - a. Description: Graniti Fiandre.

- b. Color: New Marmi Olympia.
- c. Grout Color: To be selected by the Owner from manufacturer's full line.
- d. Joint Width: 1/8".
- e. Tile Installation Method:
 - i. Metal Studs or Furring Substrates: TCA W243 using Latex Portland Cement Mortar and Epoxy Grout.

D. Base Tile:

1. B-1:

- a. Description: Daltile.
- b. Color: Earth EV05.
- c. Grout Color: To be selected by the Owner from manufacturer's full line.
- d. Joint Width: 1/8".
- e. Tile Installation Method:
 - i. Metal Studs or Furring Substrates: TCA F122 using Latex Portland Cement Mortar and Epoxy Grout.

2. B-2:

- a. Description: Daltile.
- b. Color: Earth EV05.
- c. Grout Color: To be selected by the Owner from manufacturer's full line.
- d. Joint Width: 1/8".
- e. Tile Installation Method:
 - i. Metal Studs or Furring Substrates: TCA F122 using Latex Portland Cement Mortar and Epoxy Grout.

2.2 THRESHOLDS

- A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
 - 1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.
- B. Schluter –RENO-U
 - 1. Size to match tile and existing carpet transition: EU100
 - 2. Material: Brushed Stainless Steel 304
- C. Marble Thresholds: ASTM C 503, with a minimum abrasion resistance of 12 per ASTM C 1353 or ASTM C 241 and with honed finish.
 - 1. Description: Uniform, fine-to medium-grained cream stone with light gray veining.

2.3 WATERPROOFING FOR TILE INSTALLATIONS

- A. Locations: For all tile installations.
- B. Products and Manufacturers: System consisting of liquid-latex rubber and fabric reinforcement.
 - 1. LATICRETE International Inc.; Laticrete 9235 Waterproof Membrane.
 - 2. MAPEI Corporation; Mapelastic 400/Reinforcing Fabric.
 - 3. Summitville Tiles, Inc.; S-9000.

2.4 SETTING MATERIALS

- A. Dry-Set Mortar: Factory-mixed polymer fortified thin set mortar complying with ANSI A118.4
 - 1. Products and Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Ultraflex 2 Multi-Purpose; MAPEI; white thin set mortar for thin set applications in accordance with the Tile Council of North America for setting methods indicated.
 - b. PermaFlex 500 Multi-Purpose; ProSpec Bonsal American; white thin set mortar for thin set applications in accordance with the Tile Council of North America for setting methods indicated.
 - c. Flexbond Multi-Purpose; Custom Building Products; white thin set mortar for thin set applications in accordance with the Tile Council of North America for setting methods indicated.

2.5 GROUT MATERIALS

- A. Grout for Floor Joints: Factory prepared stainless colorfast epoxy grout
 - 1. Products and Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Bostik Ceramic Tile Grout (Sanded), Starquartz Industries, Inc.
 - b. Ultracolor Plus; MAPEI
 - c. ProColor Sanded Grout; ProSpec Bonsal American
 - d. PolyBlend Sanded Grout; Custom Building Products
 - 2. Colors: As indicated on the Finish Legend; if not indicated as selected by the Architect from manufacturer's full line.
 - 3. Joint Sealer: Apply two applications of joint sealer prior to completion of project. 1 application 24 hours after installation of grout and 2 application after substantial completion.
 - a. ProSpec: HydraGuard
 - b. MAPEI: UltraCare Low-Sheen Sealer & Finish

- B. Grout for Wall Joints: Factory prepared stainless colorfast epoxy grout
1. Products and Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. QuartzLock2, Starquartz Industries, Inc.
 - b. Kerapoxy; MAPEI
 - c. B-7000; ProSpec Bonsal American
 - d. 100% Solids Epoxy Grout; Custom Building Products
 2. Colors: As indicated on the Finish Legend; if not indicated as selected by the Architect from manufacturer's full line.

2.6 ELASTOMERIC SEALANTS

- A. General: Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer and characteristics indicated that comply with applicable requirements in Division 7 Section "Joint Sealants."
- B. Colors: To be selected by the Architect from manufacturer's full line.

2.7 FINISHING AND EDGE-PROTECTION PROFILES FOR WALLS AND COUNTERTOPS

- A. Top of Wall Detail
1. Profile: Schluter-JOLLY
 2. Color: Clear Anodized Aluminum
 3. Size: Match tile installation (A100ATGB suggested)
- B. Corner Edge Detail
1. Profile: Schluter-QUADEC
 2. Color: Brushed Stainless Steel 304
 3. Size: Match tile installation

2.8 MOVEMENT JOINT AND COVE-SHAPED PROFILES

- A. Corner Cove Detail
1. Profile: Schluter-DILEX-EKE
 2. Color: Sand Pebble
 3. Size: EKE U 8 / O 12 SP Suggested
- B. Cove Base Detail
1. Profile: Schluter-DILEX-AHK
 2. Color: Satin Anodized Aluminum
 3. Size: AHK 1S 100 AE Suggested

C. Movement Joint Detail

1. Profile: Schluter-DILEX-AKWS 100 G
2. Color: Grey, to be verified with samples and matching grout color
3. Size: Match tile

2.9 MISCELLANEOUS MATERIALS

- A. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

2.10 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
1. Verify that substrates for setting tile are firm; dry; clean; free of oil, waxy films, and curing compounds; and within flatness tolerances required by referenced ANSI A108 Series of tile installation standards for installations indicated.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.
- B. Preparing the Surface:
1. All sub-strate preparation shall be in accordance with the Tile Council of America's Handbook for ceramic tile installations.

3.3 INSPECTION

- A. Installer shall examine all areas and conditions under which work is to be installed and shall notify General Contractor, in writing, of any conditions detrimental to proper and timely completion of his work. Do not proceed with this work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.
- B. Commencement of the work will be construed as Installer's acceptance of surfaces and conditions.

3.4 WATERPROOFING INSTALLATION

- A. Install waterproofing to comply with ANSI A108.13 and waterproofing manufacturer's written instructions to produce waterproof membrane of uniform thickness bonded securely to substrate.

3.5 TILE INSTALLATION

- A. General: Install tile to comply with TCA setting methods indicated, manufacturer's instructions and recommendations, and ANSI A108 Series of tile installation standards applicable to substrates and conditions indicated.
- B. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation".
- C. Install tile in patterns shown on the Drawings and the approved Shop Drawings. Perimeter tile is to be at least a half tile in width. Chipped, cracked and split tiles are not acceptable.
- D. Extend tile work into recesses and under or behind equipment and fixtures, to form a complete covering without interruptions, except as otherwise shown. Terminate work neatly at obstructions, edges and corners without disrupting pattern or joint alignments.
- E. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures and other penetrations so that plates, collars, or covers overlap tile.
- F. Grout: Grout tile to comply with manufacturer's instructions and recommendations.

3.6 CLEANING AND PROTECTING

- A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Remove grout residue from tile as soon as possible.
 - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and

plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

- B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- C. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

3.7 CLEAN-UP

- A. Periodically clean up and arrange for removal of all debris resulting from work to assure a presentable job at all times. Following completion of this phase of the work, clean up all dirt and rubbish, remove from premises and leave the spaces broom clean.

3.8 FLOOR TILE INSTALLATION SCHEDULE

- A. Tile Installation:
 - 1. Tile Type: Floor tile.
 - 2. Setting Material Type: Latex modified.
 - 3. Grout: Epoxy.
 - 4. Waterproofing: All locations.
 - 5. Setting Method: TCA F122

3.9 WALL TILE INSTALLATION SCHEDULE

- A. Tile Installation:
 - 1. Tile Type: Wall tile.
 - 2. Setting Material Type: Latex modified.
 - 3. Grout: Epoxy.
 - 4. Setting Method: TCA W243

END OF SECTION 09310

SECTION 10155 - TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes toilet compartments and screens as follows:

1. Compartment Style: Ceiling-Hung.
2. Screen Style: Wall hung.

1.2 RELATED SECTIONS

- A. Wall backing required to secure mounting brackets.
- B. Toilet room accessories.

1.3 SUBMITTALS

- A. Product Data: For each type and style of toilet compartment and screen specified. Include details of construction relative to materials, fabrication, and installation. Include details of anchors, hardware, and fastenings.
- B. Shop Drawings: For fabrication and installation of toilet compartment and screen assemblies. Include plans, elevations, sections, details, and attachments to other work.
1. Show locations of reinforcement and cutouts for compartment-mounted toilet accessories.
 2. Show structural support for ceiling mounted partitions. Contractor to provide shop drawings for structural support and shall be signed and sealed by engineer.
- C. Samples: Manufacturer's standard samples.

1.4 QUALITY ASSURANCE

- A. Manufacturer(s) Qualifications: Employ only manufacturers making the specified materials as a regular production item.
- B. Preparation/Field Verification:
1. Prior to installation of wall finishes, verify required blocking has been installed in proper locations.
 2. Verify installation of finishes and required anchoring devices are complete.
 3. Verify that Shop Drawings have been successfully submitted, reviewed and returned.

4. Take dimension with field measurements prior to component fabrication to ensure proper fitting of work
 5. Proceed with installation of items only after unsatisfactory conditions have been corrected. Installation of items indicates all conditions are satisfactory.
- C. Source Limitations: Provide products of the same manufacturer for each type of unit specified and for units exposed to view in the same areas.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions in areas of installation by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer shall provide written warranty for minimum of 15 years against breakage, corrosion and delamination on all products furnished under this Guideline.
1. Warranty shall include full replacement of defective materials without charge.
- B. Unless otherwise stated, duration of all warranties shall begin on the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer – Basis of Design: 1088.67 Compact Laminate, DuraLine Compact Laminate (Solid Phenolic) Toilet Partitions: Bobrick Washroom Equipment, Inc.
1. Color: Evening Tigris 4674-60
 2. Finish Thickness:
 - a. Stiles and doors shall be 3/4" (19mm).
 - b. Panels and benches shall be 1/2" (13mm).
- B. Other Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. ASI Accurate Partitions, Accurate Partitions Corp, an ASI Group Company
 2. Bradley Corporation; Mills Partitions
- C. Hardware: All hardware shall be 18-8, type-304 stainless steel with satin finish.
1. Latch: Manufacturer's standard 14-gauge sliding door latch; latch shall slide on nylon track.

2. Hinges: Manufacturer's Industrial, Full-height SS hinges, field adjustable.
3. Fasteners: Manufacturer's standard theft-resistant fasteners.
4. Clothes Hook: Manufacturer's standard stainless steel clothes hook.
5. Mounting Brackets: Standard stainless steel, full height of panels.
6. Shoes (Caps): Stainless steel.

2.2 FABRICATION

- A. General: Provide standard doors, panels, screens, and pilasters fabricated for compartment system. Provide units with cutouts and drilled holes to receive compartment-mounted hardware, accessories, and grab bars, as indicated.
 1. Compartments shall be provided with emergency access.
 2. Attached toilet accessories shall be mounted at the heights indicated.
- B. Wall-Hung Screens: Provide units in sizes indicated of same construction and finish as compartment panels.

PART 3 - EXECUTION

3.1 INSTALLATION ENVIRONMENTAL CONDITIONS

- A. Items specified shall not be delivered or installed until building is enclosed, wet work completed and HVAC system is operating and maintaining temperature and humidity at occupancy level during remainder of construction period.

3.2 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Secure units in position with manufacturer's recommended anchoring devices.
 1. Provide all items and accessories as required for a total and complete installation in every respect.
 2. Install units level, plumb and true, firmly anchored in locations and heights indicated.
 3. Install grab bars, each to withstand a separate bending stress, shear stress, shear force and tensile force of 250 lb-f.
 4. Adjust and lubricate hardware according to manufacturer's written instructions.
- B. Ceiling-Hung Units: Secure pilasters to supporting structure and level, plumb, and tighten. Hang doors and adjust so bottoms of doors are level with bottoms of pilasters when doors are in closed position.
- C. Screens: Attach with anchoring devices according to manufacturer's written instructions and to suit supporting structure. Set units level and plumb and to resist lateral impact.

3.3 ADJUSTING AND CLEANING

- A. Hardware Adjustment: Adjust and lubricate hardware according to manufacturer's written instructions for proper operation.
- B. Provide final protection and maintain conditions that ensure toilet compartments and screens are without damage or deterioration at the time of Substantial Completion.
- C. Set hinge cam on inswinging doors to hold doors open when unlatched.
- D. Set hinge cam on outswinging doors to hold unlatched doors in closed position.
- E. Clean exposed surfaces of compartments, hardware, and fittings.

3.4 PROTECTION DURING CONSTRUCTION

- A. Provide proper protection of compartments and screens after installation. Replace items that are damaged or do not comply with requirements.

END OF SECTION 10155

SECTION 10801 - TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:

- 1. Toilet accessories.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include the following:

- 1. Construction details and dimensions.
- 2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
- 3. Material and finish descriptions.

- B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required. Use room and product designations indicated on Drawings.

1.4 QUALITY ASSURANCE

- A. Source Limitations: For products listed together in the same articles in Part 2, provide products of same manufacturer unless otherwise approved by Architect.

1.5 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

1.6 WARRANTY

- A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace mirrors that develop visible silver spoilage defects within 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 TOILET ACCESSORIES

A. Refer to tabulation on drawings. The manufacturers listed are the Basis of Design or Approved Equal.

B. Model and Manufacture: American Specialties, Inc.

1. Toilet Accessories:

a. Item **"A"**: Grab Bars 36" length

i. Model ASI-3800 Series Type-01; 1-1/2-inch diameter, stainless steel, peened grip, concealed mount with snap-flange cover.

b. Item **"B"**: Grab Bars 42" length

i. Model ASI-3800 Series Type-01; 1-1/2-inch diameter, stainless steel, peened grip, concealed mount with snap-flange cover.

c. Item **"C"**: Waste Receptacle (Surface Mounted)

i. Model ASI-0458-9

d. Item **"D"**: Electric Hand Dryer

i. Model XL-SB Brushed Stainless Steel; Xlerator See section 10810 Electric Hand Dryers

~~e. Item **"E"**: Mirror (18" W x 30" H) NOT USED~~

~~i. ~~Model ASI-0535 Series; stainless steel~~~~

f. Item **"F"**: Channel Frame Mirror (24" W x 30" H)

i. Model ASI-0620 Series; stainless steel

g. Item **"G"**: Folding Utility Shelf

i. Model ASI-0698 Series; stainless steel,

h. Item **"H"**: Jumbo Roll SM Toilet Tissue Mini Twin Dispenser (N.I.C.)

i. Model Tork 5555290; Black,

i. Item **"I"**: Sanitary Napkin Disposal (Surface Mounted)

i. Model ASI-0852 Series; stainless steel,

~~j. Item **"J"**: Sanitary Napkin Disposal (Recessed Mounted) NOT USED~~

~~i. ~~Model ASI-9471 Series; stainless steel,~~~~

- k. Item **"K"**: Sanitary Napkin Dispenser (Recessed Mounted) - Keyless
 - i. Model ASI-94684-FREE Series; 4 ¼", stainless steel.
- l. Item **"L"**: Baby Changing Station (Surface Mounted)
 - i. Model ASI-9013-9; stainless steel.
- m. Item **"M"**: Electronic Hand Washing Faucet (Specified in Plumbing)
 - i. Model Sloan, EAF-100-P-ISM-IC Series;
- n. Item **"N"**: Soap Dispenser (N.I.C.)
 - i. Owner Supplied, Contractor Installed
- o. Item **"O"**: Janitors Cabinet Accessory
 - i. Model ASI-SPCABINET, Custom
- p. Item **"P"**: Double Robe Hook
 - i. Model ASI-7345, Satin Stainless Steel
- q. Item **"Q"**: Surface Mounted Shelf 8" x 48"
 - i. Model ASI-0692-0848, Stainless Steel
- r. Item **"R"**: Paper Towel Dispenser
 - i. Model Tork 5511281(Auto) w/3096 HWK Direct Wire Conversion Kit
 - ii. Owner provided, Contractor installed
- s. Item **"S"**: Seat-Cover Dispenser (Surface Mounted)
 - i. Model ASI-9477-SM
- t. Item **"T"**: Electric Water Cooler (Specified in Plumbing)
 - i. Model Elkay-LRPBM28K

C. Substitutions will be considered under Provisions and Section 01631

2.2 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, No. 4 finish (satin), 0.0312-inch minimum nominal thickness, unless otherwise indicated.
- B. Steel Sheet: ASTM A 366, 0.0359-inch minimum nominal thickness.
- C. Galvanized Steel Sheet: ASTM A 653, G60.

- D. Mirror Glass: ASTM C 1036, Type I, Class 1, Quality q2, nominal 6.0 mm thick, with silvering, electroplated copper coating, and protective organic coating complying with FS DD-M-411.
- E. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- F. Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.
- G. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

2.3 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 - 1. Install grab bars to withstand a downward load of at least 500 lbf, when tested according to method in ASTM F 446.
- B. Secure mirrors to walls in concealed, tamper-resistant manner with special hangers, toggle bolts, or screws. Set units level, plumb, and square at locations indicated, according to manufacturer's written instructions for substrate indicated.

3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

END OF SECTION 10801

SECTION 10810 - ELECTRIC HAND DRYERS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

- A. The General Conditions, Supplementary Conditions, and Division 01 – General Requirements apply.

1.2 SECTION INCLUDES

- A. Electric hand dryers.

1.3 RELATED SECTIONS

- A. Division 26 - Electrical: Electrical systems and components.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300 Submittals.
- B. Product Data: Provide construction details, dimensions, anchoring and mounting requirements, material and finish descriptions, electrical requirements, and manufacturer's warranty.
- C. Operation and Maintenance Data: Provide for electric hand dryers to include in maintenance manuals.
- D. Warranty: Provide sample of manufacturer's standard warranty for parts and labor.

1.5 QUALITY ASSURANCE

- A. Product Certification:
 - 1. ETL listed in accordance with UL 507.
 - 2. Compliant with National Sanitation Foundation International (NSF) Protocol P335 "Hygienic Commercial Hand Dryers".
 - 3. Certified non-food "food safe" product by HACCP International Endorsement Program.
- B. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by a qualified testing agency, and marked for intended location and application.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle electric hand dryers in manufacturer's protective packaging.

- B. Store electric hand dryers off of ground, under cover, and in a dry location. Handle according to manufacturer's written recommendations to prevent damage, deterioration, or soiling.

1.7 COORDINATION

- A. Coordinate locations of electric hand dryers with other work to prevent interference with clearances required for access, and for proper installation, adjustment, operation, cleaning, and servicing of electric hand dryers.

1.8 WARRANTY

- A. Manufacturer's Standard Warranty: Manufacturer's standard form in which manufacturer agrees to repair, restore, or replace defective electric hand dryer components and labor within specified warranty period.

1. Warranty Period: One (1) year limited for labor and five (5) years for parts.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Dyson Airblade dB Electric Hand Dryers manufactured by Dyson Inc., 600 W. Chicago Avenue, Suite 275, Chicago, IL 60654; 888-397-6622, <http://airblade.dyson.com/> or comparable product by one of the following:

1. Mitsubishi Electric; Jet Towel.
2. ASI Roval; TRI-Umph 20200.
3. Excel Dryer; Xcelerator XL-SB

- B. Substitutions will be considered under provisions of Section 01631.
- C. Any change from Basis-of Design should be identified on the contractors Bid Form.

2.2 ELECTRIC HAND DRYERS

- A. Electric Hand Dryers: Dyson Airblade dB Electric Hand Dryer Model AB14; Item No. 300681-01 Gray.

1. Mounting: Surface mounted on pressed galvanized steel backplate.
2. Construction: Polycarbonate-ABS casing with anti-microbial molded additive in fascia and blades. Anti-tamper M6 exterior machine screws. Water ingress protection to IP35.
3. Bacterial Reduction Rate from External Surfaces: Up to 99.9 percent over 24 hours.
4. Color Finish: Gray.
5. Light Reflective Value: Gray - 28.3.

6. Filtration: 99.97 percent at 0.3 microns particulate efficiency HEPA filter with anti-microbial coating.
7. Operation: Touch-free infra-red activation.
 - a. Hand dry time: 12 seconds
 - b. Airspeed at nozzle: 420 mph
 - c. Operation Lock-out Period: 30 seconds
 - d. Operating Airflow: Up to 9.25 gallons/second
 - e. Rated Operating Noise Power: 81 db(A)
8. Motor: Dyson Digital Motor (DDM), V4 switched reluctance brushless DC type; 92,000 rpm motor speed; less than 0.5 watt standby power consumption.
9. Electrical Requirements: 120-127 V AC, 50 & 60 Hz, 1400 W.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify availability and characteristics of electrical power. Drill minimum two (2) inch diameter holes for electrical service entrance through backplate.
- B. Do not begin installation until substrates are complete and ready for installation of electric hand dryers.

3.2 INSTALLATION

- A. Locate and install mounting bracket in accordance with manufacturer's written instructions. Use minimum 0.25-inch anchors to mount bracket. Mount electric hand dryer at height above finished floor recommended by manufacturer.
- B. Install electric hand dryer in accordance with manufacturer's written instructions, using fasteners appropriate to substrate indicated and recommended by manufacturer. Install electric hand dryers level, plumb, and firmly anchored in locations and at heights indicated.

3.3 CLEANING AND PROTECTION

- A. Adjust electric hand dryers for smooth operation. Replace damaged or defective components.
- B. Remove protective coverings from finished surfaces.
- C. Clean exposed surfaces using materials and methods recommended by manufacturer.

END OF SECTION 10810

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