



R046 - NANUET - RESTROOM UPGRADE

Nanuet, NY

90% CD Set

December 03, 2021

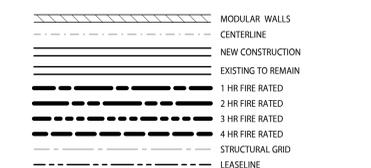
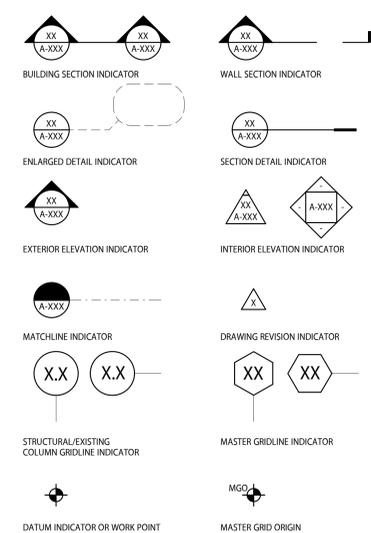


APPLE STORE - R046 - NANUET

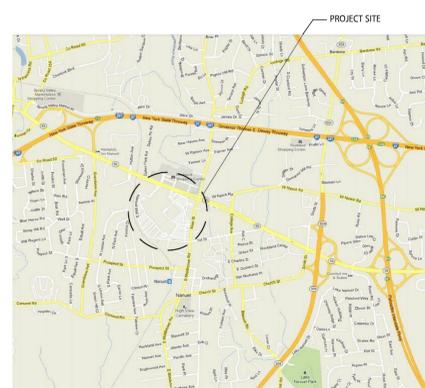
ABBREVIATIONS

AC	ASPHALTIC CONCRETE	JAN	JANITOR
ACC	ACCESSIBLE	JT	JOINT
ACP	ACOUSTICAL CEILING PANEL	KIT	KITCHEN, KITCHENETTE
ACST	ACOUSTICAL	L	LONG
AD	AREA DRAIN	LAM	LAMINATE, LAMINATED
ADOM	ADJUSTABLE	LAV	LAVATORY
ADJ	ADJUSTABLE	LAV	LAVATORY
ADJ	ADJUSTABLE	LAND	LANDSCAPE
ADJ	ADJUSTABLE	LSC	LIFESTYLE CENTER
ADJ	ADJUSTABLE	LT	LIGHT
ADJ	ADJUSTABLE	LTG	LIGHTING
ADJ	ADJUSTABLE	MAS	MASONRY
ADJ	ADJUSTABLE	MAT	MATERIAL
ADJ	ADJUSTABLE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
ADJ	ADJUSTABLE	MED	MEDIUM
ADJ	ADJUSTABLE	MEMB	MEMBRANE
ADJ	ADJUSTABLE	MEZZ	MEZZANINE
ADJ	ADJUSTABLE	MFR	MANUFACTURE
ADJ	ADJUSTABLE	MH	MOP HOLDER
ADJ	ADJUSTABLE	MIN	MINIMUM, MINUTE
ADJ	ADJUSTABLE	MIR	MIRRORED
ADJ	ADJUSTABLE	MISC	MISCELLANEOUS
ADJ	ADJUSTABLE	MGO	MASTER GRID ORIGIN
ADJ	ADJUSTABLE	MO	MASONRY OPENING
ADJ	ADJUSTABLE	MR	MIRROR
ADJ	ADJUSTABLE	MS	MOP SINK
ADJ	ADJUSTABLE	MT	MOUNTED
ADJ	ADJUSTABLE	MTL	METAL
ADJ	ADJUSTABLE	MVB	MOVABLE
ADJ	ADJUSTABLE	MW	MODULAR WALL
ADJ	ADJUSTABLE	N	NORTH
ADJ	ADJUSTABLE	NIC	NOT IN CONTACT
ADJ	ADJUSTABLE	NO	NUMBER
ADJ	ADJUSTABLE	NBM	NOMINAL
ADJ	ADJUSTABLE	NTS	NOT TO SCALE
ADJ	ADJUSTABLE	O	OWNER
ADJ	ADJUSTABLE	OC	ON CENTER
ADJ	ADJUSTABLE	OCC	OCCUPANT, OCCUPANTS
ADJ	ADJUSTABLE	OH	OVERHEAD
ADJ	ADJUSTABLE	OD	OUTSIDE DIAMETER
ADJ	ADJUSTABLE	OPNG	OPENING
ADJ	ADJUSTABLE	OP	OPPOSITE
ADJ	ADJUSTABLE	ORD	OVERFLOW ROOF DRAIN
ADJ	ADJUSTABLE	OTS	OPEN TO STRUCTURE ABOVE
ADJ	ADJUSTABLE	PRCST	PRECAST
ADJ	ADJUSTABLE	PERP	PERPENDICULAR
ADJ	ADJUSTABLE	PLAM	PLASTIC LAMINATE
ADJ	ADJUSTABLE	PLAS	PLASTER
ADJ	ADJUSTABLE	PLYWD	PLYWOOD
ADJ	ADJUSTABLE	PNL	PANEL
ADJ	ADJUSTABLE	PL	PROPERTY LINE
ADJ	ADJUSTABLE	PR	PAIR
ADJ	ADJUSTABLE	PROP	PROPERTY
ADJ	ADJUSTABLE	PT	PAINT, POINT, PRESSURE TREATED
ADJ	ADJUSTABLE	PTD	PAPER TOWEL DISPENSER
ADJ	ADJUSTABLE	PTDWR	PAPER TOWEL DISPENSER/WASTE RECEPTACLE
ADJ	ADJUSTABLE	PTN	PARTITION
ADJ	ADJUSTABLE	R	RADIUS, RISER
ADJ	ADJUSTABLE	RCP	REFLECTED CEILING PLAN
ADJ	ADJUSTABLE	RD	ROOF DRAIN, ROAD
ADJ	ADJUSTABLE	REF	REFER TO, REFERENCE, REFERRER
ADJ	ADJUSTABLE	REFR	REFRIGERATOR
ADJ	ADJUSTABLE	REINF	REINFORCED, REINFORCING
ADJ	ADJUSTABLE	REQD	REQUIRED
ADJ	ADJUSTABLE	REV	REVISED, REVISION
ADJ	ADJUSTABLE	RFG	ROOFING
ADJ	ADJUSTABLE	RM	ROOM
ADJ	ADJUSTABLE	RO	ROUGH OPENING
ADJ	ADJUSTABLE	RS	REMOTE STOCK
ADJ	ADJUSTABLE	RT	RIGHT
ADJ	ADJUSTABLE	S	SOUTH
ADJ	ADJUSTABLE	SCD	SEAT COVER DISPENSER
ADJ	ADJUSTABLE	SCWD	SOLID CORE WOOD
ADJ	ADJUSTABLE	SCHED	SCHEDULE
ADJ	ADJUSTABLE	SD	STORM DRAIN, SOAP DISPENSER
ADJ	ADJUSTABLE	SECT	SECTION
ADJ	ADJUSTABLE	SF	SQUARE FOOT, SQUARE FEET
ADJ	ADJUSTABLE	SQL	SINGLE
ADJ	ADJUSTABLE	SH	SHIT
ADJ	ADJUSTABLE	SHTHG	SHEATHING
ADJ	ADJUSTABLE	SIM	SIMILAR
ADJ	ADJUSTABLE	SM	SQUARE METERS
ADJ	ADJUSTABLE	SNR	SANITARY NAPKIN RECEPTACLE
ADJ	ADJUSTABLE	SPEC	SPECIFICATION
ADJ	ADJUSTABLE	SPKR	SPEAKER
ADJ	ADJUSTABLE	SQ	SQUARE
ADJ	ADJUSTABLE	SS	STAINLESS STEEL, SERVICE SINK
ADJ	ADJUSTABLE	STD	STANDARD
ADJ	ADJUSTABLE	STL	STEEL
ADJ	ADJUSTABLE	STOR	STORAGE
ADJ	ADJUSTABLE	STRUCT	STRUCTURAL
ADJ	ADJUSTABLE	SUSP	SUSPENDED
ADJ	ADJUSTABLE	T	TREAD
ADJ	ADJUSTABLE	T&G	TONGUE AND GROOVE
ADJ	ADJUSTABLE	TEL	TELEPHONE
ADJ	ADJUSTABLE	TEMP	TEMPERATURE, TEMPORARY
ADJ	ADJUSTABLE	TER	TERRAZZO
ADJ	ADJUSTABLE	THK	THICK, THICKNESS
ADJ	ADJUSTABLE	TMFD	TEMPERED
ADJ	ADJUSTABLE	TPD	TOILET PAPER DISPENSER
ADJ	ADJUSTABLE	TO	TOP OF
ADJ	ADJUSTABLE	TSTAT	THERMOSTAT
ADJ	ADJUSTABLE	TV	TELEVISION
ADJ	ADJUSTABLE	TYP	TYPICAL
ADJ	ADJUSTABLE	UCS	UNIVERSAL CEILING SYSTEM
ADJ	ADJUSTABLE	UGND	UNDERGROUND
ADJ	ADJUSTABLE	UN	UNLESS OTHERWISE NOTED
ADJ	ADJUSTABLE	UR	URINAL
ADJ	ADJUSTABLE	UTA	UNIVERSAL TROUGH ASSEMBLY
ADJ	ADJUSTABLE	VERT	VERTICAL
ADJ	ADJUSTABLE	VEST	VESTIBULE
ADJ	ADJUSTABLE	VIF	VEHICLE IN FIELD
ADJ	ADJUSTABLE	VNR	VEENER
ADJ	ADJUSTABLE	VAP	VAPOR RETARDER
ADJ	ADJUSTABLE	W	WEST, WIDE, WATT
ADJ	ADJUSTABLE	W	WITH
ADJ	ADJUSTABLE	WO	WITHOUT
ADJ	ADJUSTABLE	WAP	WIRELESS ACCESS POINT
ADJ	ADJUSTABLE	WC	WATER CLOSET, WALLCOVERING
ADJ	ADJUSTABLE	WCS	WOOD CEILING SYSTEM
ADJ	ADJUSTABLE	WD	WOOD
ADJ	ADJUSTABLE	WH	WALL HYDRANT
ADJ	ADJUSTABLE	WP	WEATHERPROOF, WATERPROOF, WATERPROOFING, WORK POINT
ADJ	ADJUSTABLE	WR	WATER RESISTANT, WASTE RECEPTACLE
ADJ	ADJUSTABLE	WR	WATER RESISTANT, WASTE RECEPTACLE
ADJ	ADJUSTABLE	WT	WEIGHT
ADJ	ADJUSTABLE	HO	HOLD OPEN
ADJ	ADJUSTABLE	HORIZ	HORIZONTAL
ADJ	ADJUSTABLE	HT	HEIGHT
ADJ	ADJUSTABLE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
ADJ	ADJUSTABLE	ID	INSIDE DIAMETER
ADJ	ADJUSTABLE	IN	INCH
ADJ	ADJUSTABLE	INCL	INCLUDE, INCLUDING
ADJ	ADJUSTABLE	INFO	INFORMATION
ADJ	ADJUSTABLE	INSUL	INSULATE, INSULATION
ADJ	ADJUSTABLE	INT	INTERIOR
ADJ	ADJUSTABLE	IWD	INDIRECT WASTE DRAIN

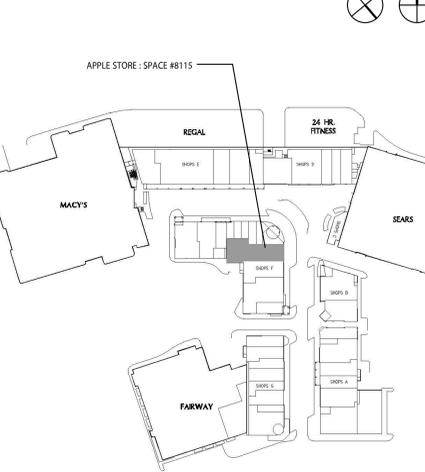
REFERENCE SYMBOLS



VICINITY MAP



SITE MAP



GENERAL NOTES

- DO NOT SCALE THE DRAWINGS.
- VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
- SEE SPECIFICATIONS FOR ADDITIONAL CRITERIA AND CONSTRUCTION REQUIREMENTS.
- DIMENSIONS SHOWN AS 'WF' SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD BY LAYING OUT THE PARTITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS PRIOR TO PROCEEDING WITH WORK.
- DIMENSIONS SHOWN AS 'CLEAR OR HOLD' SHALL BE MAINTAINED AND ALLOW FOR THICKNESS OF FINISHES, INCLUDING FLOOR FINISHES. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS PRIOR TO PROCEEDING WITH WORK.
- DIMENSIONS ARE TO THE GRIDLINES OR TO FINISH SURFACES, UNLESS OTHERWISE INDICATED.
- ELEVATIONS REFERENCED FINISH FLOOR FOR EACH ROOM THROUGHOUT TENANT SPACE, UNLESS OTHERWISE NOTED. FINISH FLOOR ELEVATIONS MAY VARY FROM ROOM TO ROOM DEPENDING UPON FLOOR FINISHES.
- UNLESS OTHERWISE INDICATED, DIAGONAL WALLS ARE AT A 45-DEGREE ANGLE TO THE PROJECT COLUMN GRIDS.
- THROUGHOUT THIS SET OF DRAWINGS, THE TERM 'OWNER' REFERS TO THE CLIENT/TENANT. THE TERM 'LANDLORD' REFERS TO THE PROPERTY OWNER. THE TERM 'DM' REFERS TO THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION.

CODE INFORMATION

AUTHORITY HAVING JURISDICTION:	TOWN OF CLARKSTOWN	
BUILDING CODE:	NEW YORK STATE BUILDING CODE ADOPTS IBC 2018	2020
ACCESSIBILITY CODE:	AMERICAN WITH DISABILITIES ACT	2010
ENERGY CODE:	NEW YORK STATE ECC CODE	2020
MECHANICAL CODE:	NEW YORK STATE MECHANICAL CODE	2020
PLUMBING CODE:	NEW YORK STATE PLUMBING CODE	2020
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE	2017
FIRE CODE:	NEW YORK STATE FIRE CODE	2020

SCOPE OF WORK

REMODEL OF EXISTING TENANT RESTROOMS

PROJECT INFORMATION

TOTAL LEASE AREA:	8205 SF
OCCUPANCY GROUP:	M
CONSTRUCTION TYPE:	II-B
OCCUPANT LOAD:	183 OCC
SPRINKLERED (YES/NO):	YES
FIRE ALARM (YES/NO):	YES
SEISMIC DESIGN CATEGORY:	C
WIND DESIGN SPEED/EXPOSURE/FACTOR:	105 MPH/II, 0

WORK UNDER SEPARATE PERMIT

THE FOLLOWING ITEMS ARE TO BE ENGINEERED BY THE CONTRACTOR. ANY PERMIT REQUIRED IN ASSOCIATION FOR THIS WORK SHALL BE OBTAINED BY THE CONTRACTOR. ALL WORK IS TO CONFORM WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.

- FIRE SPRINKLER SYSTEM
- FIRE ALARM SYSTEM

PROJECT DIRECTORY

CLIENT:	APPLE INC. ONE APPLE PARK WAY CUPERTINO, CA 95014 PHONE: 925-766-6859 CONTACT: BRIAN CARLSON EMAIL: bcarlson@apple.com	PROPERTY OWNER (LANDLORD): WS DEVELOPMENT 33 BOYLSTON STREET SUITE 3000 CHESTNUT HILL, MA 02467 CONTACT: STEVE MASON EMAIL: steve.mason@wsdevelopment.com
ARCHITECT:	MBH ARCHITECTS 960 ATLANTIC AVE ALAMEDA, CA 94501 PHONE: 510-865-8663 CONTACT: REZA ETEMAD EMAIL: rezae@mbharch.com	
MECHANICAL/PLUMBING/ELECTRICAL:	TES ENGINEERING 25760 FIRST STREET CLEVELAND, OH 44145 PHONE: 440-871-2410 CONTACT: STEVE CHASE EMAIL: schase@tesengineering.com	

DRAWING INDEX

SHEET NO.	SHEET NAME	90% CD SET 12/03/2021
A-001	GENERAL INFORMATION	●
A-011	EGRESS PLAN	●
AD-121	DEMOLITION PLAN	●
A-711	RESTROOM PLAN AND ELEVATIONS	●
A-712	RESTROOM DETAILS	●
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A-801	PARTITION TYPES & DETAILS	●
A-811	DOOR, FINISH & SIGNAGE LEGEND, DETAILS	●

SHEET NO.	SHEET NAME	90% CD SET 12/03/2021
M-001	MECHANICAL GENERAL NOTES, SCHEDULES, SYMBOLS & HVAC AIRFLOW SCHEMATIC	●
M-161	RESTROOM MECHANICAL PLAN	●
P-001	PLUMBING GENERAL NOTES, SCHEDULES, DETAILS & SYMBOLS	●
P-140	BACKSTAGE-PLUMBING DEMOLITION PLAN	●
P-141	BACKSTAGE-PLUMBING PLAN	●
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E-001	REFERENCE SYMBOLS, LUMINAIRE SCHEDULE & RESPONSIBILITY MATRIX	●
E-211	BACKSTAGE- ELECTRICAL PLAN	●
E-501	ELECTRICAL RISER DIAGRAM	●
E-511	LIGHTING CONTROL, PROGRAMMING	●

RESPONSIBILITY MATRIX

CATEGORY	NO.	COMPONENT	FURNISH		INSTALL		REMARKS
			CONTRACTOR	OWNER	CONTRACTOR	OWNER	
GENERAL	1	DEMOLITION	●	●	●	●	
	2	TEMP UTILITIES/LIGHTING	●	●	●	●	
	3	LIGHTING	●	●	●	●	CONTRACTOR TO COORDINATE POWER
	4	OCCUPANCY SENSORS, MOTION SENSORS & LIGHTING CONTROLS	●	●	●	●	INCLUDING WIRING AND CONNECTIONS
	5	ROUGH-IN & CONNECTION OF ALL MECHANICAL FIXTURES	●	●	●	●	
	6	ROUGH IN, STUB-UP AND CONNECTION OF ALL PLUMBING FIXTURES	●	●	●	●	
	7	RESTROOM LAVATORY, TOILET & FIXTURES	●	●	●	●	INCLUDING BACKING, MOUNTING AND CONNECTIONS
	8	JANITOR'S MOP SINK, FAUCET, HOSE & BRACKET	●	●	●	●	
	9	DOORS & HARDWARE	●	●	●	●	
	10	CEILING CIV/ACP, T-BAR & TILE	●	●	●	●	
	11	PAINT, WAINSCOT & WALL BASE	●	●	●	●	
	12	SIGNAGE	●	●	●	●	

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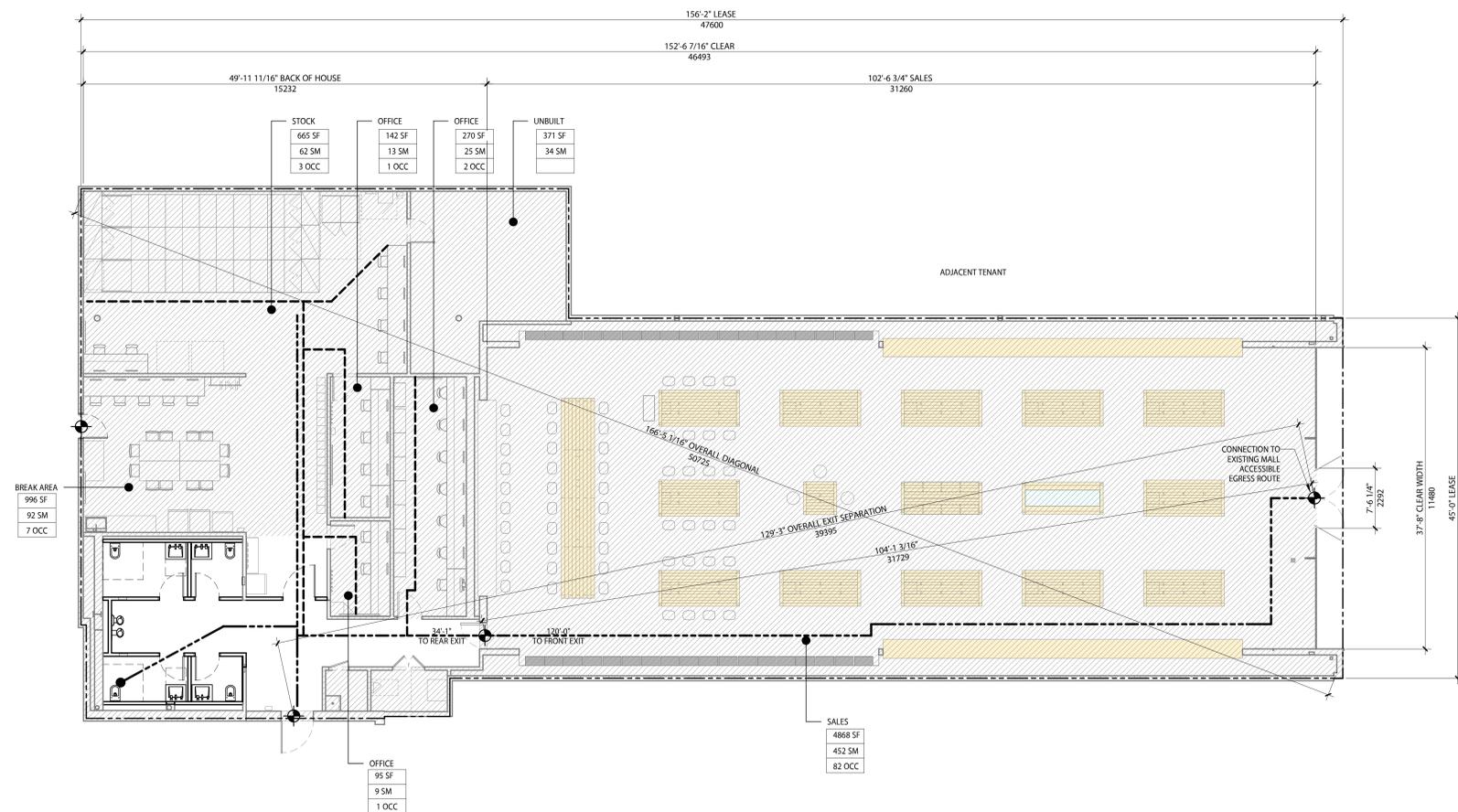
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GENERAL INFORMATION

A-001



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

**OCCUPANT CALCULATIONS
MAIN STORE**

SPACE	OCCUPANT LOAD FACTOR	AREA	OCCUPANTS
SALES	60 SF/OCC	4868 SF 452 SM	82
OFFICES	150 SF/OCC	1503 SF 140 SM	11
STOCK	300 SF/OCC	665 SF 62 SM	3
ACCESSORY	--	798 SF 74 SM	--
UNBUILT	--	371 SF 34 SM	--
TOTAL OCCUPANT LOAD	--	8205 SF 762 SM	96

EGRESS CALCULATIONS

EXITING	PER NEW YORK STATE BUILDING CODE 1019.2
NUMBER OF EXITS REQUIRED OCCUPANT LOAD > 49 OR COMMON PATH OF TRAVEL > 75'-0" [22.9m]	2
NUMBER OF EXITS PROVIDED	2
MINIMUM EXIT WIDTH (INCHES) = EXIT WIDTH FACTOR (0.2) X OCCUPANT LOAD	27.5' [6.9m]
MINIMUM EXIT WIDTH REQUIRED	32" [812 mm]
EXIT WIDTH PROVIDED	129 1/2" [3289 mm]
EXIT SEPARATION	PER NEW YORK STATE BUILDING CODE 1015.2.1
MINIMUM DISTANCE REQUIRED (W/SPRINKLERS) 1/3 MAX OVERALL DIAGONAL BETWEEN EXITS PROVIDED	55'-5 1/2" [13882mm] 129'-1" [39344mm]
TRAVEL DISTANCE	PER NEW YORK STATE BUILDING CODE 1016.1
MAXIMUM ALLOWED (W/SPRINKLERS)	250'-0" [76200 mm]
MAXIMUM PROVIDED	74'-1" [22580 mm]
BACKSTAGE COMMON PATH OF EGRESS TRAVEL	PER NEW YORK STATE BUILDING CODE 2014.1014.3
MAXIMUM ALLOWED (W/SPRINKLERS)	75'-0" [22860 mm]
MAXIMUM PROVIDED	64'-8" [19710 mm]

PLUMBING CALCULATIONS

PLUMBING CALCULATIONS PER INTERNATIONAL PLUMBING CODE 2018

FIXTURE	REQUIRED		PROVIDED			
	WOMEN	MEN	WOMEN	MEN	UNISEX	TOTAL
LAVATORY	1	1	0	0	4	4
WATER CLOSET	1	1	0	0	4	4
URINAL	0	0	0	0	0	0
DRINKING FOUNTAIN	1	0	0	0	1	1
MOP SINK	0	0	0	0	1	1

SHEET NOTES

- ACCESSIBLE ROUTE OF TRAVEL SLOPES NOT TO EXCEED RUNNING SLOPE OF 1:20 (5.0%), MAX CROSS SLOPE OF 1:50 (2.0%) MAX. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- LANDLORD TO PROVIDE COMPLIANT CONTINUATION OF ACCESSIBLE EGRESS ROUTE OF TRAVEL BEYOND LEASE LINE. REFER TO SHEET A-001 MALL MAP FOR MALL EXIT CONFIGURATION.
- PROVIDE FIRE EXTINGUISHERS PER SPECIFICATIONS. EXACT QUANTITY AND LOCATION TO BE COORDINATED WITH THE FIRE MARSHAL AND APPLE DEVELOPMENT MANAGER ON SITE. VERIFY WITH LOCAL JURISDICTION AND PROVIDE LOCATION MARKERS AS REQUIRED.
- PORTABLE ELECTRONIC PAYMENT SYSTEM ALLOWS TRANSACTIONS TO OCCUR THROUGHOUT THE STORE VIA HAND HELD DEVICES UTILIZED BY EMPLOYEES. THIS ALLOWS TRANSACTIONS TO OCCUR AT LOCATIONS CONVENIENT TO EACH CUSTOMER'S NEEDS.

SYMBOLS

- PATH OF TRAVEL DIMENSION POINT
- SECURE DOOR
- AREA OF NO WORK
- COMMON PATH OF EGRESS TRAVEL
- ACCESSIBLE ROUTE OF EGRESS
- LEASLINE
- 1 HR FIRE RATED
- 2 HR FIRE RATED
- 3 HR FIRE RATED
- 4 HR FIRE RATED

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EGRESS PLAN

A-011



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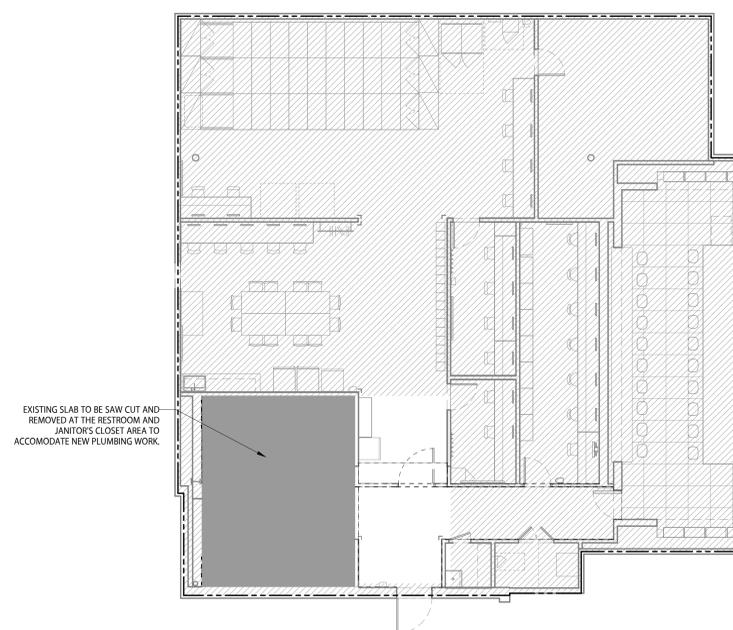
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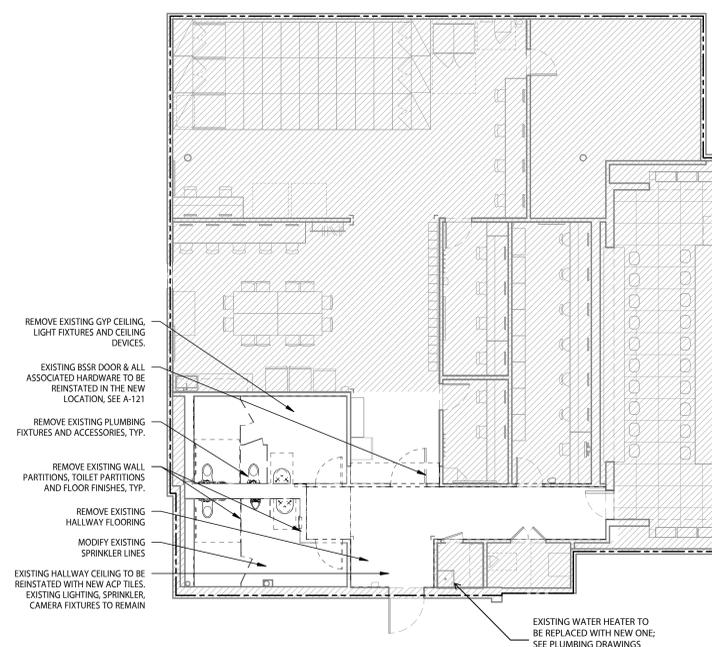
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2 SLAB DEMOLITION PLAN
1/8" = 1'-0"



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

SHEET NOTES

- SEE SHEET A-001 FOR RESPONSIBILITY REQUIREMENTS.
- VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- DO NOT DEMOLISH ANY LOAD BEARING WALLS OR CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. NOTIFY ARCHITECT OF ANY STRUCTURAL ISSUES ARISING FROM DEMOLITION.
- MAINTAIN EXISTING ADJACENT FIRE RATING FOR ALL PENETRATIONS THROUGH EXISTING FIRE RATED ASSEMBLIES.
- WHERE DEMOLITION OCCURS ADJACENT TO EXISTING TO REMAIN, PATCH AND REPAIR ADJACENT CONDITIONS TO A UNIFORM APPEARANCE.
- PROTECT EXISTING FINISHES THAT WILL REMAIN.
- DO NOT DISTURB AND/OR DISRUPT EXISTING BUILDING SERVICES THAT PASS THROUGH TENANT SPACE UNLESS COORDINATED WITH LANDLORD.
- DEMOLITION INCLUDES TRENCHING, SAW CUTTING, AND CORING OF SLAB FOR PLUMBING & ELECTRICAL WORK. COORDINATE WITH PLUMBING & ELECTRICAL DRAWINGS. X-RAY SLAB PRIOR TO TRENCHING, SAW CUTTING OR CORING OF SLAB TO VERIFY STRUCTURAL INTEGRITY OF SLAB IS MAINTAINED.
- REMOVE ALL EXISTING ABANDONED PLUMBING FIXTURES AND CAP EXISTING PLUMBING LINES THROUGHOUT PER PLUMBING CODE REQUIREMENTS.

SYMBOLS

- AREA OF NO WORK
- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN
- LEASELINE



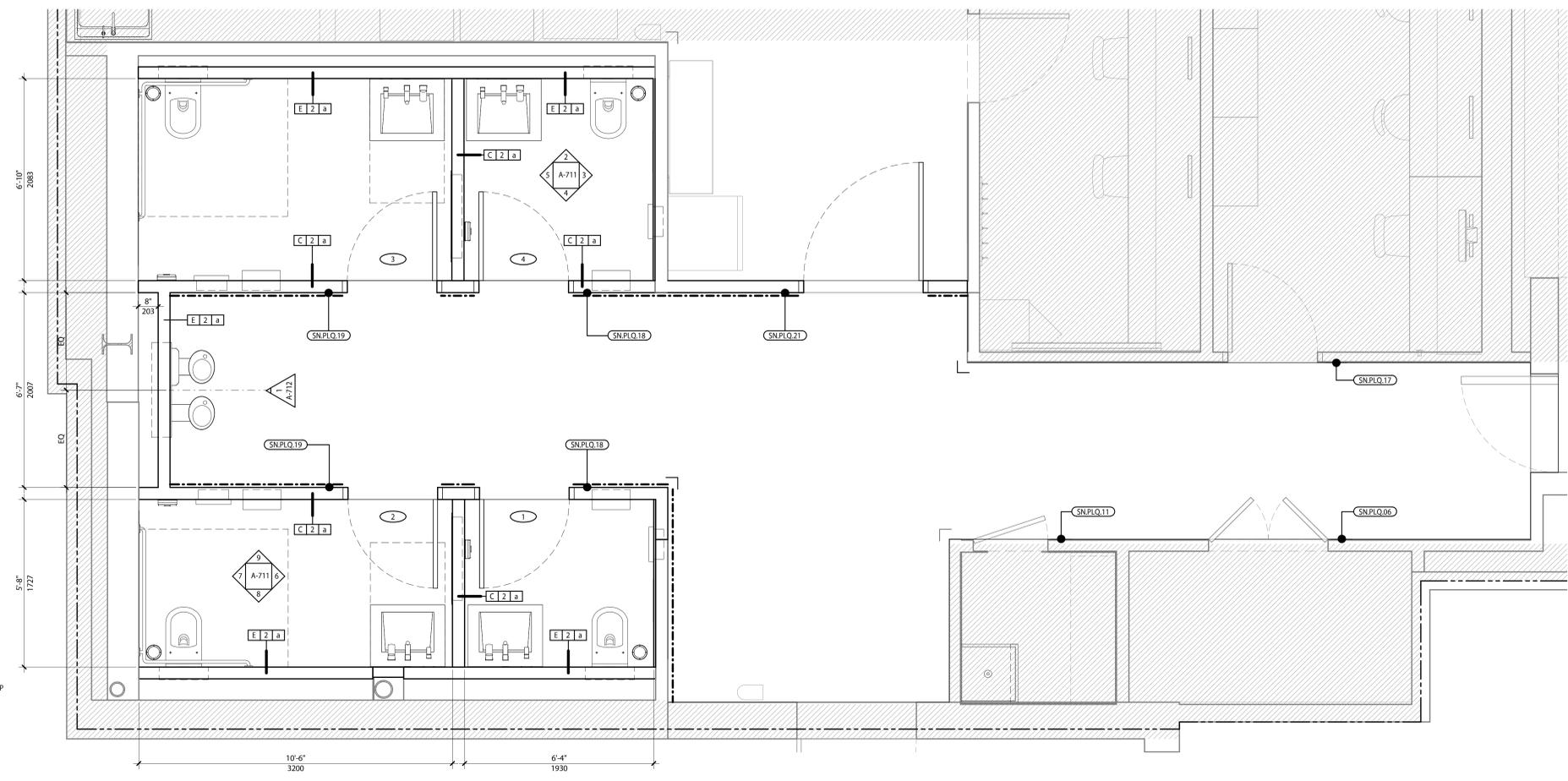
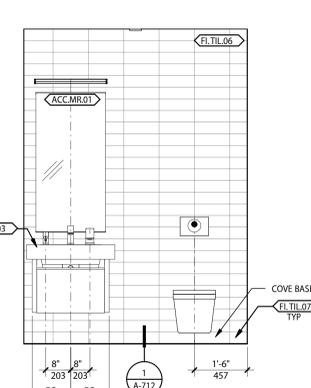
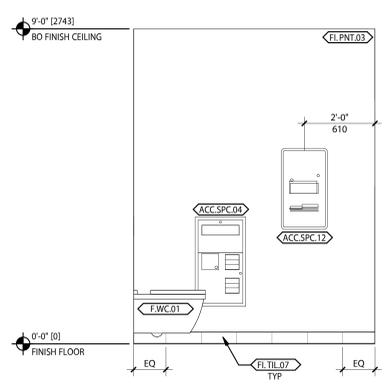
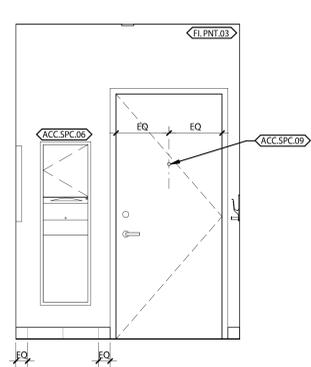
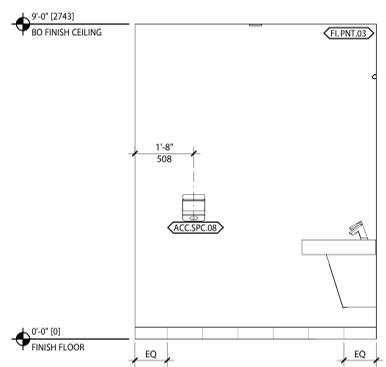
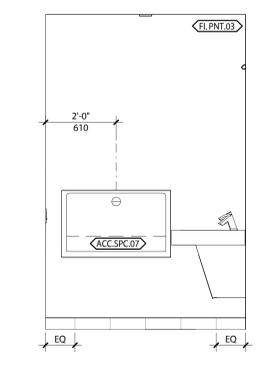
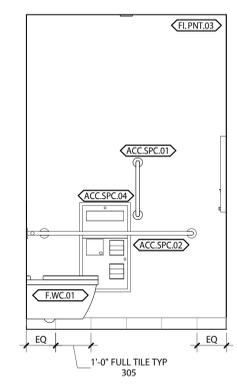
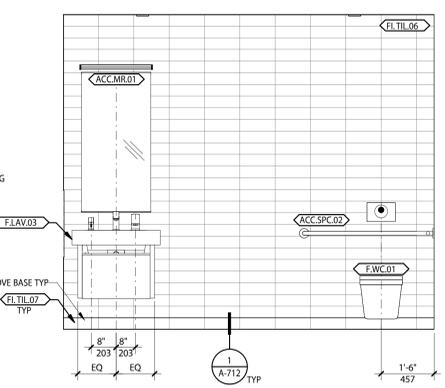
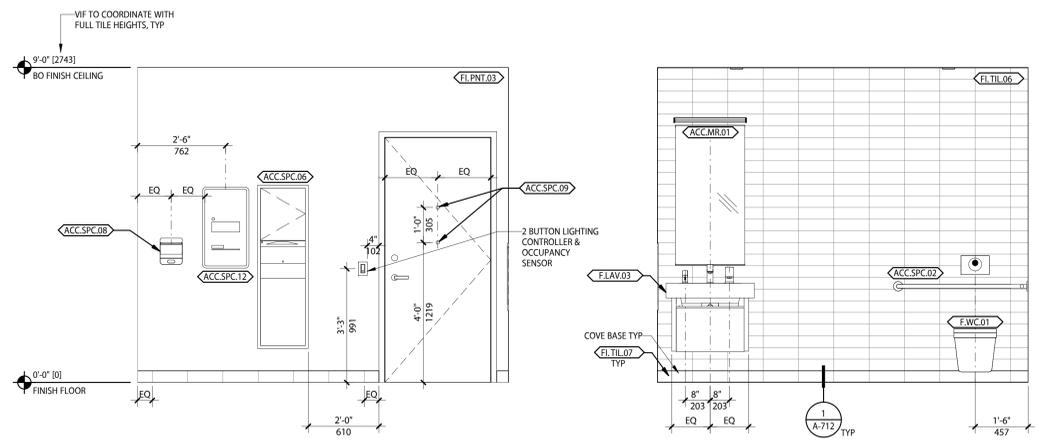
DEMOLITION PLAN

AD-121



OWNER PRODUCT CODE	IDENTIFIER	DESCRIPTION	MANUFACTURER	PRODUCT	TOTAL QTY	REMARKS
A.ACC.MR.01		MIRROR	PROVIDED BY GC	SEE SPECIFICATIONS SECTION 088323	4	
A.ACC.SPC.01		VERTICAL GRAB BAR	BOBRICK	B-5896 x18	2	
A.ACC.SPC.02		L-SHAPED GRAB BAR	BOBRICK	B-5897	2	
A.ACC.SPC.04		TOILET PAPER DISPENSER/SEAT COVER DISPENSER/SANITARY PRODUCT DISPOSAL	BOBRICK	B-3574 or B-3574S, DEPENDING ON WATER CLOSET ORIENTATION	4	
A.ACC.SPC.06		PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	B-3944	4	
A.ACC.SPC.07		CHANGING TABLE	KOALA KARE	KB110-55RE	2	
A.ACC.SPC.08		MOBILE DEVICE HOLDER	BOBRICK	B-635 KLUTCH	4	
A.ACC.SPC.09		COAT HOOK	SUGATSUNE	DSH-129SATIN STAINLESS STEEL	6	
A.ACC.SPC.12		SANITARY PRODUCT DISPENSER	AUNTFLOW	AFL-0396-A	4	GC RESPONSIBLE FOR FIRST ROUND OF SUPPLIES

ROOM	FLOOR	BASE	WALL	CEILING
HALLWAY	VCT-1	A.FLWB.01	A.WNS.01, A.FIPNT.01	A.FI.CLG.05
HALLWAY (E)	VCT-1	A.FLWB.01	A.WNS.01, A.FIPNT.01	A.FI.CLG.05
RESTROOM	A.FI.SE.02	A.FI.TIL.07	A.FI.TIL.06, A.FI.PNT.03	A.FI.PNT.03
RESTROOM ACC	A.FI.SE.02	A.FI.TIL.07	A.FI.TIL.06, A.FI.PNT.03	A.FI.PNT.03



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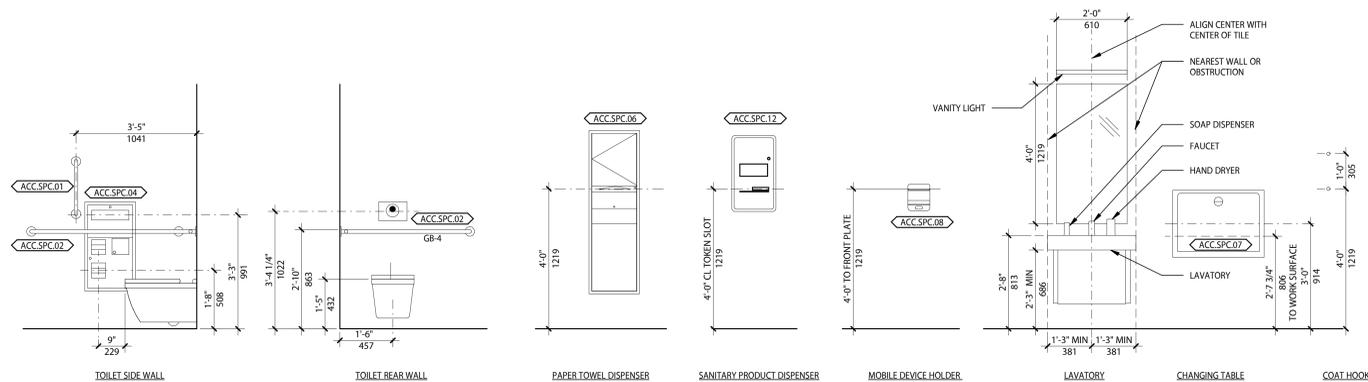
Consultant:
TES Engineering
www.tesengineering.com

Apple Store
NANUET
Nanuet, NY

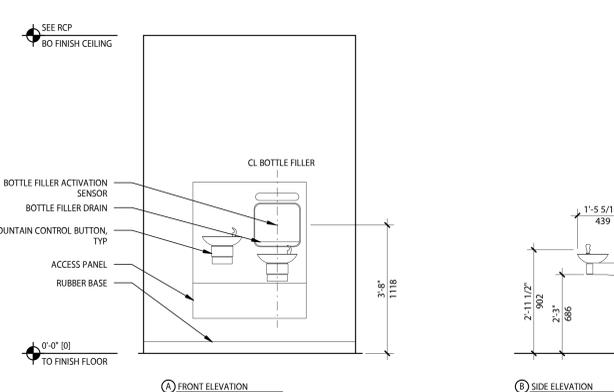
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RESTROOM PLAN AND
ELEVATIONS

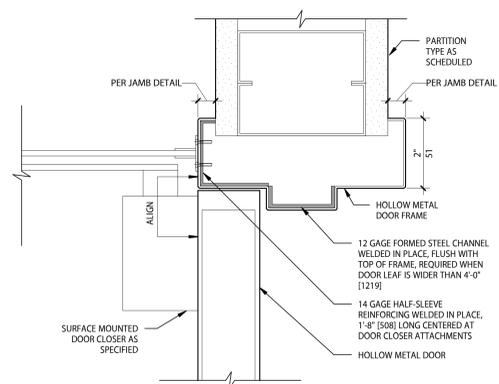
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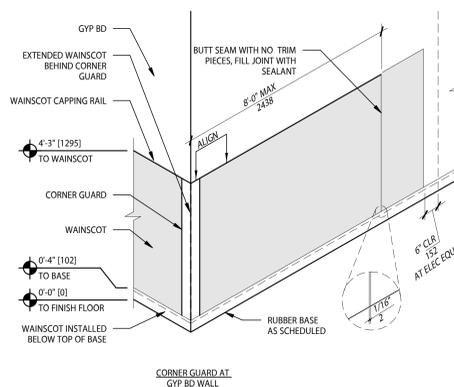
20 MOUNTING DIAGRAM FOR TOILET ACCESSORIES AND PLUMBING FIXTURES
1/2" = 1'-0"



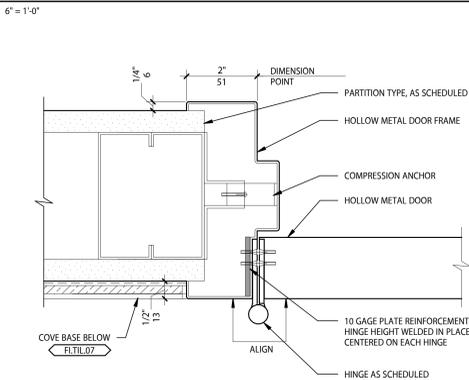
16 DRINKING FOUNTAIN & BOTTLE FILLER
1/2" = 1'-0"



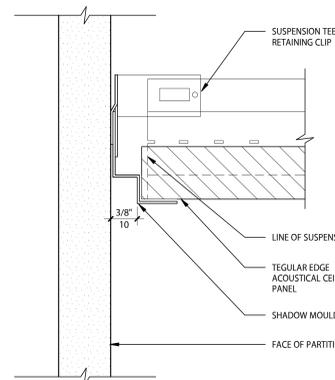
15 HOLLOW METAL DOOR FRAME HEAD
6" = 1'-0"



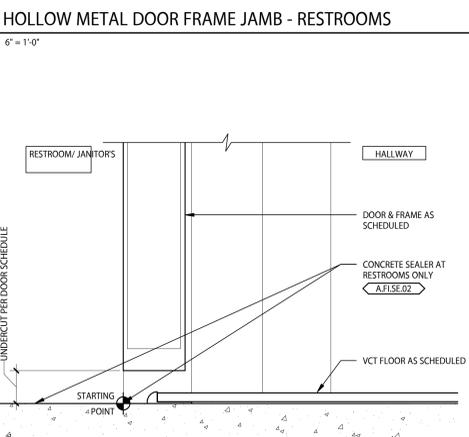
12 WALL PROTECTION
NOT TO SCALE



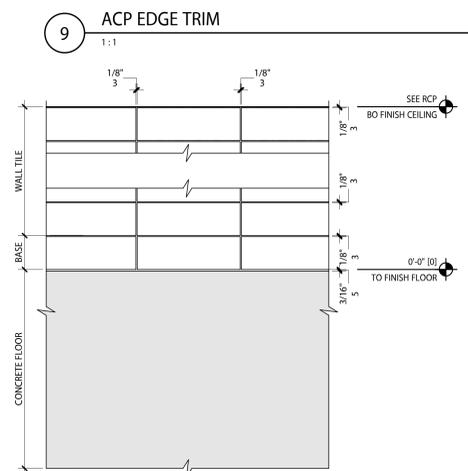
10 HOLLOW METAL DOOR FRAME JAMB - RESTROOMS
6" = 1'-0"



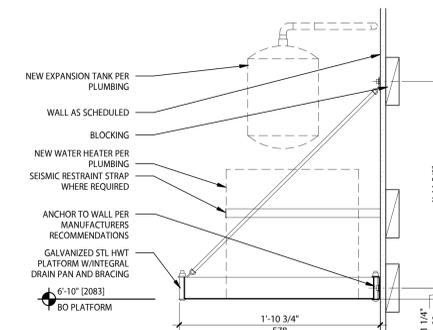
9 ACP EDGE TRIM
1:1



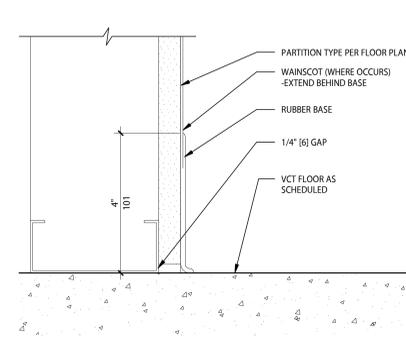
5 HOLLOW METAL DOOR FRAME SILL - CONC
6" = 1'-0"



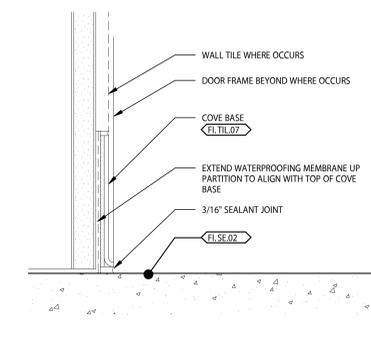
4 RESTROOM TILE LAYOUT
1 1/2" = 1'-0"



6 HOT WATER TANK PLATFORM
1 1/2" = 1'-0"



2 BASE (COVE) AT GYP BD WALL - CONCRETE
6" = 1'-0"



1 TILE COVE BASE
6" = 1'-0"

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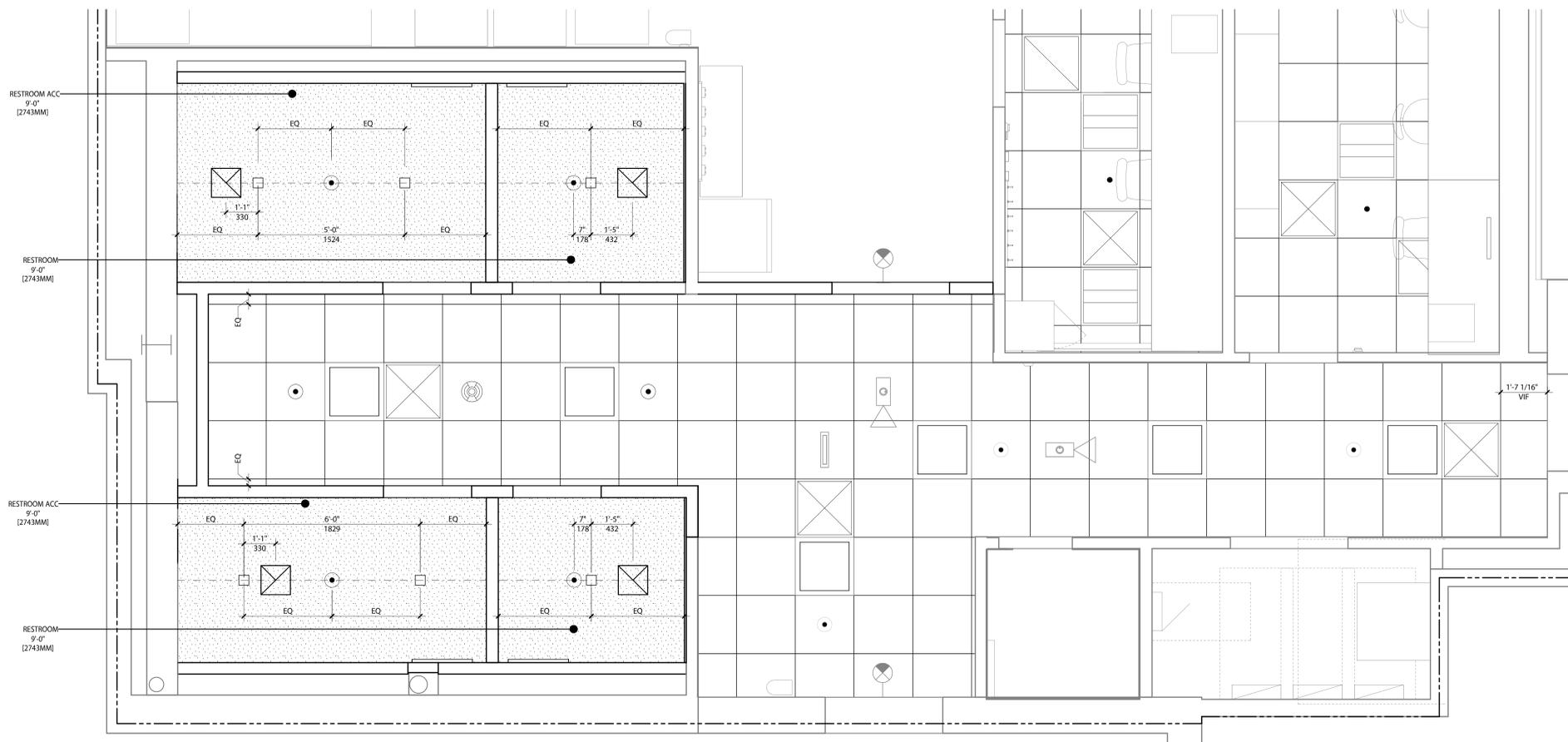
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RESTROOM DETAILS



1 REFLECTED CEILING PLAN
1/2" = 1'-0"

SHEET NOTES

1. VERIFY FIELD CONDITIONS AND LOCATIONS OF ALL STRUCTURAL ELEMENTS, MECHANICAL DUCTWORK, PLUMBING PIPING, ELECTRICAL CONDUITS AND OTHER APPLICABLE ITEMS. MAINTAIN DESIGN HEIGHTS AND CLEARANCES. NOTIFY ARCHITECT AND OWNER DM OF ANY DISCREPANCIES OR OTHER CONFLICTS IN CEILING LAYOUT PRIOR TO CONSTRUCTION.
2. LOCATE FIXTURES AND CEILING DEVICES DIMENSIONED AND IDENTIFIED ON THIS PLAN. DIMENSIONS FOR ELEMENTS SHOWN ON THIS PLAN SHALL GOVERN OVER, AND IF IN CONFLICT, SHALL SUPERSEDE THOSE SHOWN ON ALL OTHER DRAWINGS.
3. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR DESIGN OF THESE SYSTEMS (DUCT SIZES, CIRCUITING, ETC.).
4. REFER TO LIGHT FIXTURE SYSTEM SPECIFICATION AND INSTALLATION MANUAL FOR ATTACHMENT AND INSTALLATION DETAILS.
5. SEE ELECTRICAL DRAWINGS FOR DEVICES NOT SHOWN AND FIXTURE NUMBERS AND QUANTITIES.
6. PROVIDE ACCESS PANELS AT MECHANICAL/ELECTRICAL EQUIPMENT. PROVIDE MINIMUM OF ONE ACCESS TILE PER AREA WITHIN FULL HEIGHT PARTITIONS. COORDINATE LOCATIONS OF ACCESS PANELS IN DRYWALL CEILING WITH ARCHITECT.
7. LIGHT FIXTURES AND OTHER CEILING DEVICES SHOWN IN ACOUSTIC CEILINGS ARE TO BE CENTERED IN PANELS UNLESS OTHERWISE NOTED.
8. SECURITY DEVICES IN OPEN TO STRUCTURE CEILING AREAS TO BE MOUNTED 12" BELOW BOTTOM OF LIGHT FIXTURE BY OWNER SECURITY VENDOR. COORDINATE ROUGH-IN WITH PULL WIRES TO SECURITY BOARD WITH OWNER SECURITY VENDOR. NOTIFY ARCHITECT AND OWNER DM OF ANY OBSTRUCTIONS.
9. FOR ITEMS SHOWN WITHOUT DIMENSIONS, CONTRACTOR OR VENDOR TO LOCATE PER CEILING PLAN WITH CONSIDERATION FOR VISIBILITY AROUND POTENTIAL OBSTRUCTIONS.
10. REFER TO BACKSTAGE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
11. IN ALL OFFICES & REPAIR ROOM, ALIGN CEILING GRID WITH CENTER OF THE FIRST WALL PANEL JOINT.

SYMBOLS

-  WALL-MOUNTED STRIP LIGHT
-  RECESSED LIGHT
-  MECH SUPPLY DIFFUSER
-  MECH RETURN GRILLE
-  EXHAUST GRILLE
-  TRIMLESS DOWNLIGHT
-  AREA OF NO WORK
-  OCCUPANCY SENSOR
-  SPRINKLER HEAD
-  CEILING HEIGHT INDICATOR



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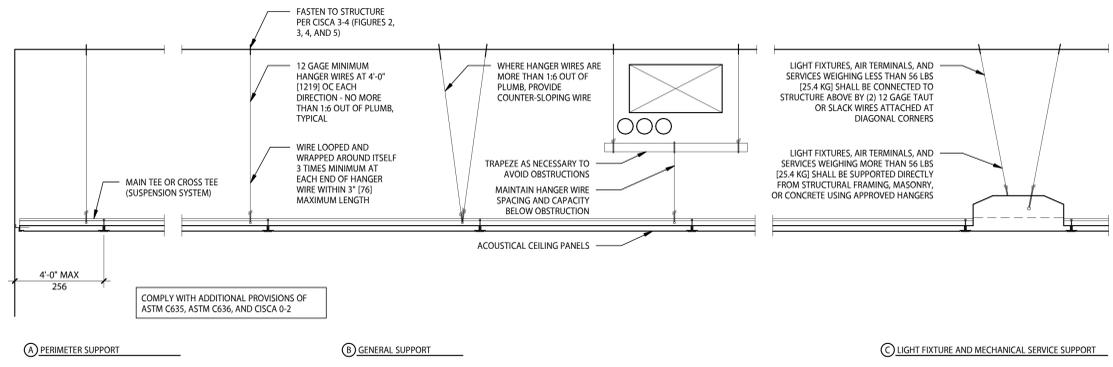
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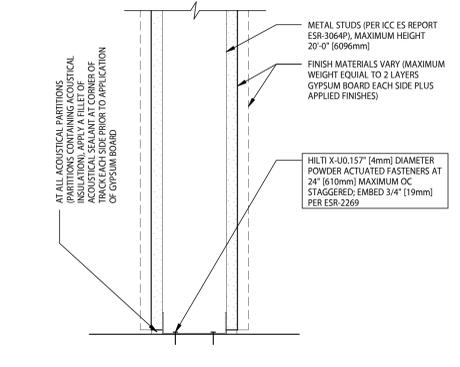
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REFLECTED CEILING PLAN

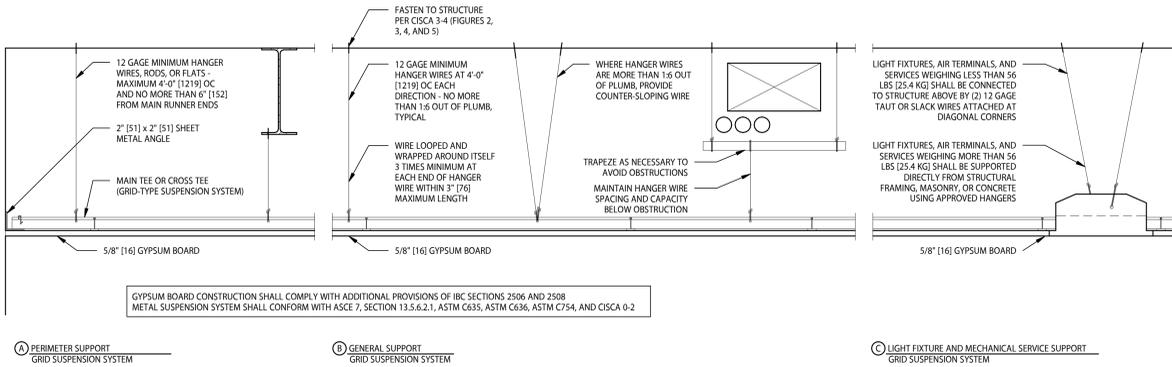
A-713



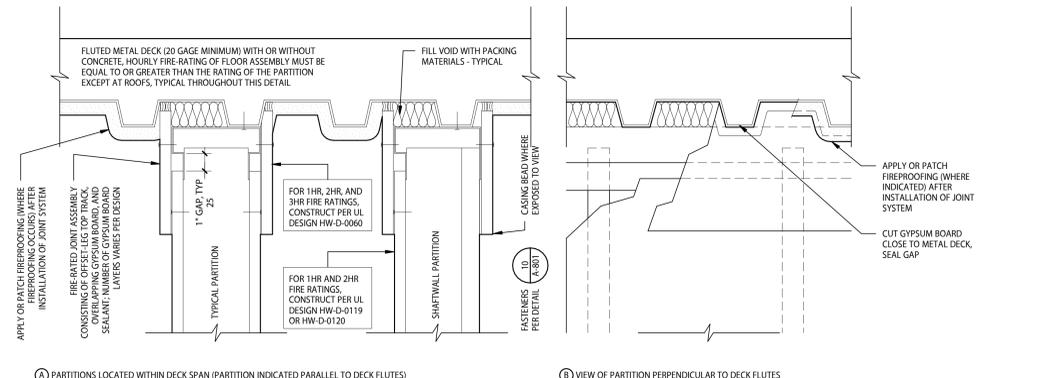
20 INSTALLATION OF SUSPENDED ACOUSTICAL CEILING IN 2009 IBC SEISMIC CATEGORIES A AND B
NOT TO SCALE



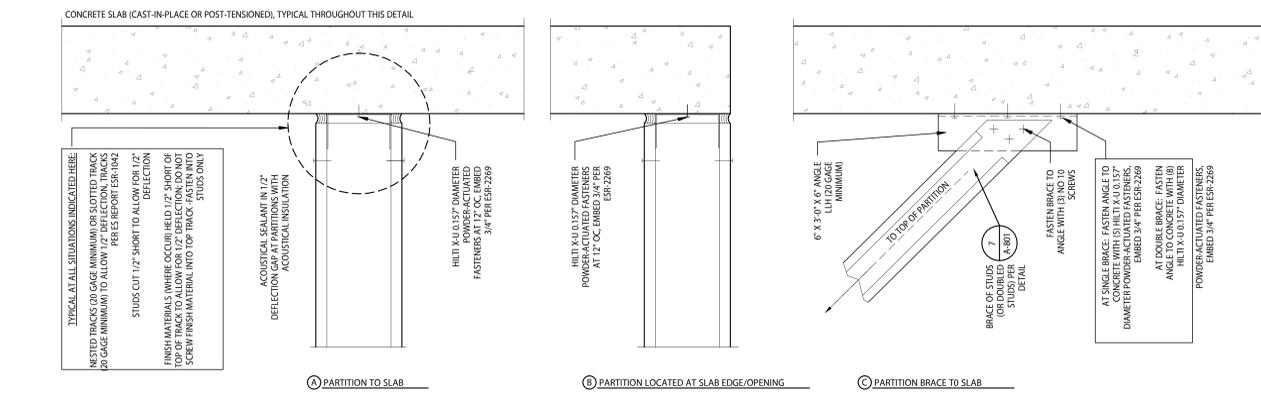
16 PARTITION-TO-FLOOR CONNECTION
NOT TO SCALE NON-SEISMIC



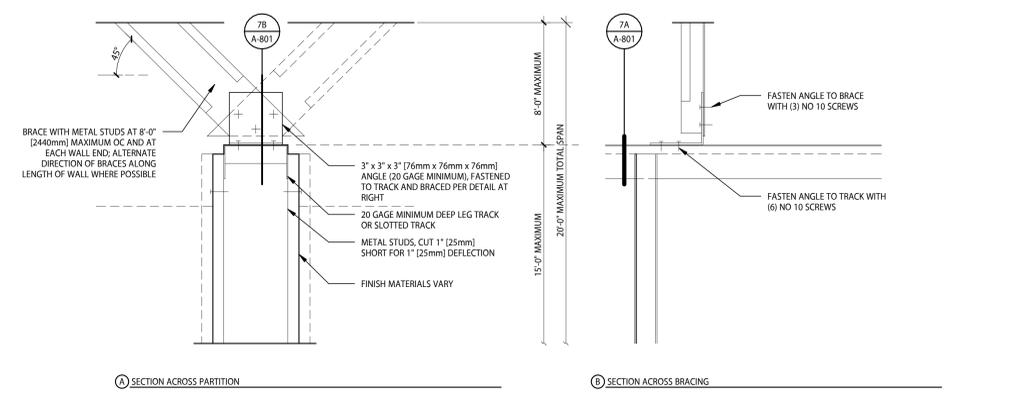
15 INSTALLATION OF SUSPENDED GYPSUM IN 2009 IBC SEISMIC CATEGORIES A AND B
NOT TO SCALE



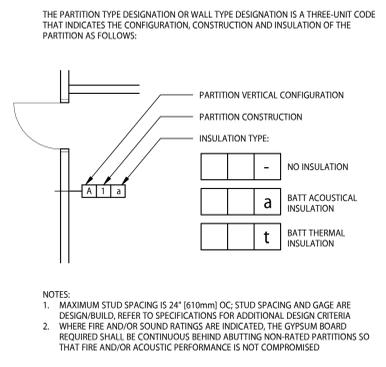
12 INTERSECTION OF FIRE RATED PARTITIONS WITH FLUTED METAL DECK ABOVE
3" = 1'-0"



10 INTERSECTION OF NON RATED PARTITIONS WITH CONCRETE SLAB ABOVE-SEISMIC
3" = 1'-0" CONCRETE SEISMIC



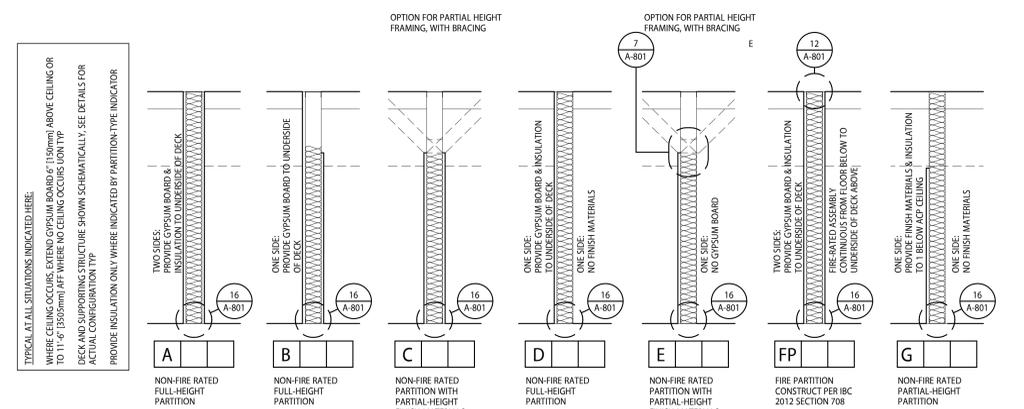
7 TOP OF PARTITION WHERE BRACED TO STRUCTURE ABOVE
3" = 1'-0" NON-SEISMIC



5 PARTITION TYPE LEGEND
NOT TO SCALE

	1	2 1/2\"/>
	2	3 5/8\"/>
	3	6\"/>
	4	2 1/2\"/>
	5	4\"/>
	6	6\"/>
	7	3 5/8\"/>
	8	6\"/>
	9	6\"/>
	10	GYP BD ON EXISTING"/>
	11	7/8\"/>
	12	2\"/>

4 PARTITION CONSTRUCTION
NOT TO SCALE



2 PARTITION VERTICAL CONFIGURATION
NOT TO SCALE

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PARTITION TYPES & DETAILS

A-801



FINISH SCHEDULE

CODE	MATERIAL	MANUFACTURER	TYPE	COLOR/SPEC	SIZE	FIRE RATING	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX	NOTES
A.FI.CE.G05	CEILING TILE	ARMSTRONG	ACOUSTIC CEILING PANEL	TILE: CALLA 2824 REGULAR GRID: SILHOUETTE XL 9'16" SUSPENSION SYSTEM AND 1/8" REVEAL, COLOR: WHITE	2'-0" X 2'-0"	CLASS A	<25	<50	
A.FI.PNT.01	PAINT	SHERWIN WILLIAMS	INTERIOR LATEX-EGGSHELL	PROMAR 200 ZERO VOC INTERIOR LATEX EGG SHELL, 820W12651 COLOR:SW-7626 ZURICH WHITE	--	CLASS A	--	0	BACKSTAGE WALLS PROVIDED BY GC
A.FI.PNT.02	PAINT	SHERWIN WILLIAMS	INTERIOR LATEX-SEMI-GLOSS	PROMAR 200 ZERO VOC INTERIOR LATEX SEMI-GLOSS, 831W02651 COLOR:SW-7626 ZURICH WHITE	--	CLASS A	--	0	BACKSTAGE DOORS & FRAMES PROVIDED BY GC
A.FI.PNT.03	PAINT	SHERWIN WILLIAMS	INTERIOR EPOXY-SEMI-GLOSS	ZURICH WHITE SW-7626, 870 SERIES	--	CLASS A	--	0	RESTROOM CEILING, NON-TILED RESTROOM WALLS
A.FI.SE.02	SEALED CONCRETE	KRETEK INDUSTRIES INC.	SEALED CONCRETE	GHOSTSHIELD, SILOXA-TEK 810	VARIES	--	--	--	RESTROOM AND JANITOR'S CLOSET
A.FI.TL.06	WALL TILE	DALTILE	COLOR WHEEL COLLECTION	LINEAR 0790 ARCTIC WHITE MATTE	4" X 12" NOMINAL	--	--	--	GROUT: LATICRETE SPECTRALOCK PRO PREMIUM GROUT 44 BRIGHT WHITE
A.FI.TL.07	WALL BASE TILE	DALTILE	COLOR WHEEL COLLECTION	LINEAR FLAT TOP COVE BASE 0790 ARCTIC WHITE MATTE	4" X 12" NOMINAL	--	--	--	GROUT: LATICRETE SPECTRALOCK PRO PREMIUM GROUT 44 BRIGHT WHITE, SEALANT: LATAFSL 44 BRIGHT WHITE
A.FI.WB.01	RUBBER COVE BASE	TARKETT	RUBBER WALL BASE	BASEWORKS THERMOSET RUBBER (TYPE TS), STRAIGHT AND WITH TOE, ROLL STOCK, COLOR:199, DOCKSIDE WC	4" HIGH	--	--	--	
A.FI.WNS.01	WAINSCOT	INPRO CORPORATION	IPC RIGID VINYL SHEET	COLOR: FEATHER 0238 TEXTURE: VELVET	0.040" THICK	CLASS A	20	350	FOR WALL PROTECTION ALONG PATH OF STOCK MOVEMENT ON WALLS PROVIDED BY GC
VCT-1	VINYL COMPOSITE TILE	ARMSTRONG	VINYL COMPOSITION	EXCELON IMPERIAL TEXTURE STERLING-51904	12" X 12"	CLASS A	--	<450	PATTERN: QUARTER TURN

DOOR SCHEDULE

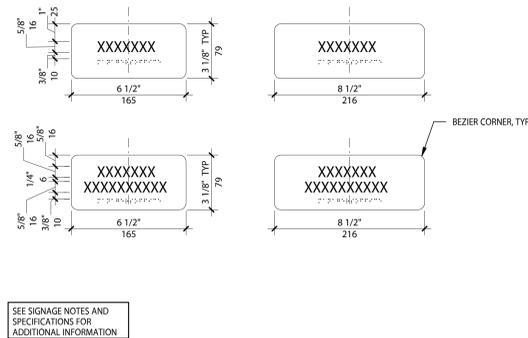
DOOR #	DESCRIPTION	DOOR				FRAME		DETAILS			HARDWARE									
		W	H	T	TYPE	MATERIAL	FINISH	UNDERCUT	MATERIAL	FINISH	SILL	JAMB	HEAD	FIRE RATING	HINGES	LOCKSET	ELECTRONICS	CLOSERS	GASKETS	ACCESSORIES
1	RESTROOM - ACCESSIBLE	36"	84"	1 3/4"	C	HM	FLPNT.02	1"	HM	FLPNT.02	5/A-712	10/A-712	15/A-712	--	AJHW.HIN.01	AJHW.LCK.14	--	AJHW.CLO.01	AJHW.GSK.02	AJHW.ACC.01
2	RESTROOM - ACCESSIBLE	36"	84"	1 3/4"	C	HM	FLPNT.02	1"	HM	FLPNT.02	5/A-712	10/A-712	15/A-712	--	AJHW.HIN.01	AJHW.LCK.14	--	AJHW.CLO.01	AJHW.GSK.02	AJHW.ACC.01
3	RESTROOM	36"	84"	1 3/4"	C	HM	FLPNT.02	1"	HM	FLPNT.02	5/A-712	10/A-712	15/A-712	--	AJHW.HIN.01	AJHW.LCK.14	--	AJHW.CLO.01	AJHW.GSK.02	AJHW.ACC.01
4	RESTROOM	36"	84"	1 3/4"	C	HM	FLPNT.02	1"	HM	FLPNT.02	5/A-712	10/A-712	15/A-712	--	AJHW.HIN.01	AJHW.LCK.14	--	AJHW.CLO.01	AJHW.GSK.02	AJHW.ACC.01

DOOR NOTES

- LOCKSETS SHALL BE SINGLE ACTION LEVER HANDLES CENTERED AT BUILDING STANDARD HEIGHT (MIN 34", MAX 44" AFF)
- PROVIDE CONSTRUCTION AND FINAL KEYING AS DEFINED IN SPECIFICATION SECTION 087100. COORDINATE WITH APPLE DP FOR PERMANENT CORE KEYING MANUFACTURE & INSTALLATION. INCLUDE IN BID.
- DOOR CLOSERS SHALL BE ADJUSTED THAT THE SWEEP PERIOD FROM AN OPEN POSITION OF 79 DEGREES TAKES THE DOOR AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR.
- PROVIDE CONSTRUCTION CORES IN ALL CYLINDERS UNTIL STORE TURN OVER.
- LOCATE FLOOR MOUNTED DOOR STOPS 3/4 OF THE DOOR LEAF WIDTH FROM THE HINGE, UNLESS OTHERWISE NOTED.
- REPLACE CYLINDER INCLUDED IN LOCKSETS WITH SPECIFIED CYLINDERS.
- FOR HOLLOW METAL DOOR HINGE QUANTITIES AND LOCATIONS, SEE DETAIL 2/A-811.
- DOORS AND CASED OPENINGS INDICATED ADJACENT TO WALL INTERSECTIONS SHALL BE LOCATED SO THAT THE EDGE OF THE FINISH OPENING IS SIX INCHES FROM THE FACE OF THE ADJACENT WALL UNLESS OTHERWISE INDICATED.

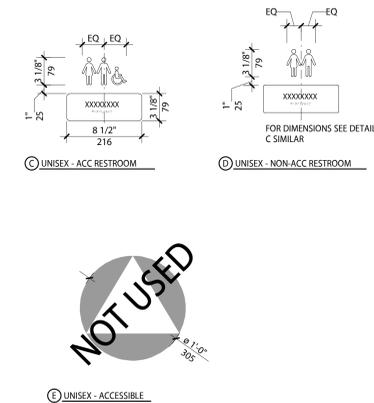
DOOR HARDWARE

OWNER PRODUCT CODE	IDENTIFIER	DESCRIPTION	MANUFACTURER	PRODUCT
HINGE	AJHW.HIN.01	BEARING HINGE	MCKINNEY	TA714 4.5x4.5xUS26D
	AJHW.LCK.04	MORTISE CYLINDER	BEST	1E-74 C265 RP3 FINISH: 626
LOCKSETS	AJHW.LCK.10	MORTISE CYLINDER	BEST	1E-74 CXXX RP3 FINISH: 626
	AJHW.LCK.13	PASSAGE LOCKSET	DORMAKABA	M9010-LA-B-630 (USE LT LEVER IF REQUIRED BY CODE)
	AJHW.LCK.14	PRIVACY LOCK W/INDICATOR	DORMAKABA	M9046-LA-B-630 W/9022 (USE LT LEVER IF REQUIRED BY CODE)
	AJHW.LCK.15	CLASSROOM	DORMAKABA	M9070-LA-B-630 (USE LT LEVER IF REQUIRED BY CODE)
	CLOSERS	AJHW.CLO.01	SURFACE CLOSER	DORMA
GASKETS	AJHW.GSK.02	SILENCERS	IVES	SR-64
	AJHW.ACC.01	DOOR STOP	STOP IT	TS51.00
ACCESSORIES	AJHW.ACC.05	ARMOR PLATE	TRIMCO	KA050-1-630 30" X 12" LESS THAN DOOR LEAF



8 INTERIOR PLAQUE SIGNAGE

3" = 1'-0"



7 PLAQUE SIGNAGE WITH PICTOGRAM

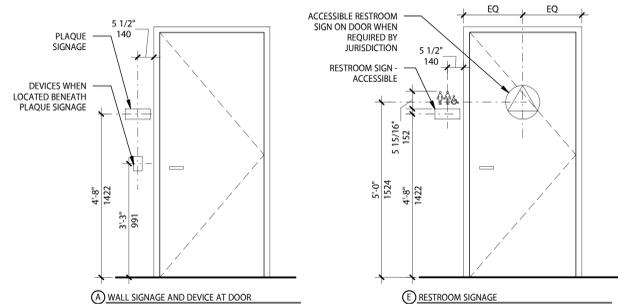
1 1/2" = 1'-0"

SIGNAGE LEGEND

OWNER PRODUCT CODE	IDENTIFIER	DESCRIPTION	QUANTITY	DETAIL	TYPE	MOUNTING	REMARKS
A.SN.PLQ.06		ELECTRICAL ROOM	1	8/A-811	STAINLESS STEEL	5A/A-811	
A.SN.PLQ.11		JANITOR'S CLOSET	1	8/A-811	STAINLESS STEEL	5A/A-811	
A.SN.PLQ.17		REPAIR ROOM	1	8/A-811	STAINLESS STEEL	5A/A-811	
A.SN.PLQ.18		RESTROOM	2	7D/A-811	STAINLESS STEEL	5E/A-811	
A.SN.PLQ.19		RESTROOM	2	7C/A-811	STAINLESS STEEL	5E/A-811	ONLY AT ACCESSIBLE ROOM
A.SN.PLQ.21		STOCKROOM	1	8/A-811	STAINLESS STEEL	5A/A-811	

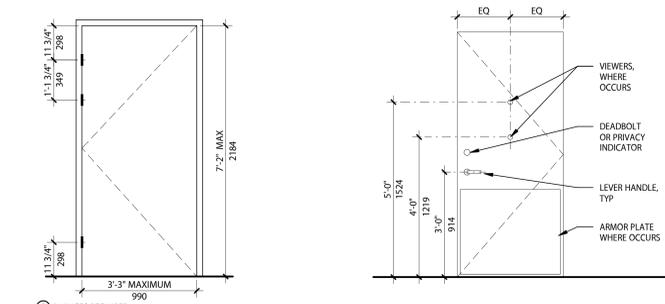
SIGNAGE NOTES

- VINYL SIGNS TO BE CENTERED ON DOOR OR PARTITION OR LOCATED ON SITE BY APPLE DEVELOPMENT MANAGER.
- STAINLESS STEEL PLAQUE SIGN FOR UNISEX TOILET ROOMS SHALL READ AS "RESTROOM".
- WHEN DOOR MOUNTED PLAQUE IS REQUIRED BY JURISDICTION, CENTER HORIZONTALLY ON DOOR. SEE DETAIL 5E/A-811 FOR ALTERNATE RESTROOM SIGNAGE LOCATIONS.
- SIGNAGE TEXT DIMENSION POINT IS BOTTOM LEFT JUSTIFICATION FOR THE TOP LINE OF TEXT.
- SEE 5/A-811 FOR RESTROOM SIGNAGE REQUIREMENTS.
- SEE 8/A-811 FOR PLAQUE SIGNAGE TEXT REQUIREMENTS.
- SEE 5/A-811 FOR LOCATIONS AND MOUNTING HEIGHTS.
- REFER TO SPECIFICATIONS FOR COLOR REFERENCES.
- SIGNAGE TEXT FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION AND INSTALL.
- ALL SIGNAGE TEXT TO MATCH DESCRIPTION IN SIGNAGE LEGEND.
- ARCHITECT WILL SUPPLY GENERAL CONTRACTOR WITH NECESSARY FONT FILES, SIGNAGE ARTWORK FILES, AND SIGNAGE TEXT APPROPRIATE FOR PROJECT LOCATION.
- CHARACTERS SHALL BE LOWERCASE UNLESS OTHERWISE REQUIRED BY LOCAL BUILDING CODES OR REGULATIONS.



5 INTERIOR SIGNAGE & DEVICE MOUNTING REQUIREMENTS

1/2" = 1'-0"



2 HINGE DIAGRAM

1/2" = 1'-0"

1 DOOR TYPE 1

1/2" = 1'-0"

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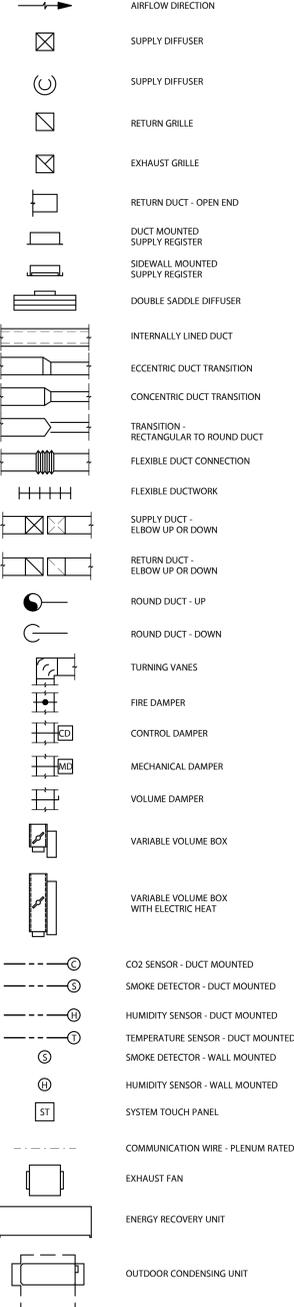
DOOR, FINISH & SIGNAGE
LEGEND, DETAILS

A-811

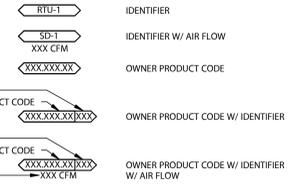
MECHANICAL ABBREVIATIONS

AABC	AMERICAN AIR BALANCE COUNCIL
AC	AIR CONDITIONING UNIT
ABV	ABOVE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
BC	BRANCH CONTROLLER
BDD	BACK DRAFT DAMPERS
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CSTD	COMBINATION FIRE/SMOKE DAMPER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB, DECIBEL
DEG	DEGREE
DISCH	DISCHARGE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRIC
EQUIV	EQUIVALENT
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FLD	FLEXIBLE DUCT
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
G	GAS
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HTR	HEATER
HWS	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IDU	INDOOR UNIT
IN	INCH
KW	KILOWATT
LB	POUND
LN	LINEAR FEET
LN DIFF	LINEAR DIFFUSER
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTR	MOTOR
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NC	NORMALLY CLOSED
NO	NOISE CRITERIA
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
OBD	OPPOSED BLADE DAMPER
ODU	OUTDOOR UNIT
OSA	OUTDOOR AIR
PD	PRESSURE DROP
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REX	REMOVE EXISTING
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SCH	SCHEDULE
SENS	SENSIBLE
SF	SUPPLY FAN, SQUARE FOOT
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SMD	SHEET METAL DUCT
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
U/C	UNDERCUT
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THROUGH ROOF
VVD	VARIABLE VOLUME DAMPER
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WMS	WIRE MESH SCREEN

MECHANICAL SYMBOLS



EQUIPMENT INDICATOR



EXISTING EXHAUST FAN SCHEDULE

EQUIPMENT INDICATOR		SERVICE	MANUFACTURER	MODEL	AIRFLOW DATA			UNIT CHARACTERISTICS				
OWNER PRODUCT CODE	IDENTIFIER				AIR FLOW	ESP	MOTOR (W)	VOLTAGE	PHASE	FREQUENCY	OPERATING WEIGHT	NOTES/ACCESSORIES
EX EF-1		RESTROOM	LOREN COOK	GN-620	500 CFM	0.375"	245	120 V	1	60 Hz	35 lb	1-2

NOTES/ACCESSORIES
 1. EXISTING TO REMAIN (SCHEDULED FOR REFERENCE ONLY)
 2. RE-BALANCE TO CFM INDICATED

AIR TERMINAL SCHEDULE

EQUIPMENT INDICATOR		MANUFACTURER	MODEL	SIZE		MOUNTING		MATERIAL		FINISH	AIRFLOW DIRECTION	DAMPER	BORDER STYLE	NOISE CRITERIA	QUANTITY	REMARKS
OWNER PRODUCT CODE	IDENTIFIER			MOD	NECK	CEILING	OTHER	STEEL	ALUMINUM							
M.DF.GN.02	01	PRICE INDUSTRIES	SPD/SPD AS/ASPD SERIES	24" X 24"	8"	●	-	●	-	-	-	-	-	<35	2	
M.GR.EXH.01	01	PRICE INDUSTRIES	10 SERIES	12" X 12"	10" X 10"	●	-	●	-	-	-	VCS3	-	-	4	RAPID MOUNT FRAME, SQUARE TO ROUND ADAPTER

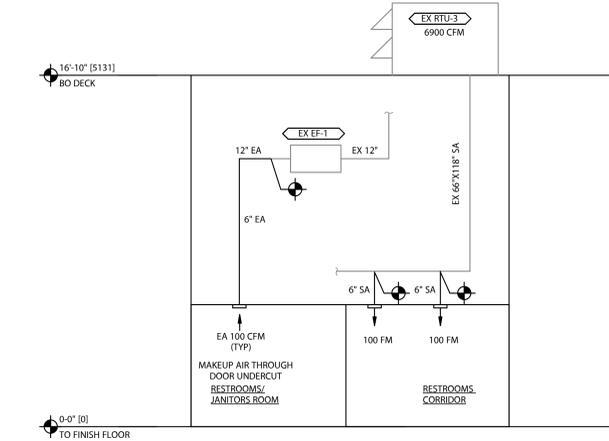
SYMBOLS KEY
 AIRFLOW DIRECTION: A = AIRFLOW TOWARDS INLET, B = AIRFLOW AWAY FROM INLET
 FINISH: A = WHITE, B = BLACK, C = ALUMINUM
 DAMPER: A = OPPOSED BLADE, B = RADIAL OPPOSED BLADE, C = YOUNG'S REGULATOR DAMPER MODEL #5020-CC
 BORDER STYLE: A = SURFACE MOUNTED, B = T-BAR LAY-IN

RESPONSIBILITY SCHEDULE

REFER TO ARCHITECTURAL SHEETS FOR COMPLETE BREAKDOWN OF PROJECT RESPONSIBILITIES

GENERAL NOTES:

- ITEMS TAGGED WITH AN "OWNER PROJECT CODE" ARE STANDARD OWNER PRODUCTS AND SHALL NOT BE SUBSTITUTED. THE CODES MAY CONTAIN AN "IDENTIFIER SUFFIX" USED TO PROVIDE INFORMATION ABOUT SIZE, LOCATION OF OTHER CHARACTERISTICS OF AN OWNER SPECIFIC PRODUCT.
- ITEMS TAGGED ONLY WITH AN "IDENTIFIER" ARE NOT STANDARDIZED AND ARE SELETED APPROPRIATELY FOR THIS PROJECT BASED ON PROJECT CONDITIONS AND REQUIREMENTS PROVIDED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. SUBSTITUTION REQUESTS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION. DRAWINGS INDICATE STANDARD REQUIREMENTS, ADDITIONAL REQUIREMENTS BY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS ARE PART OF THE CONTRACTORS WORK. THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS WITH NO INCREASE IN COSTS TO THE BUILDING OWNER.
- CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. THE CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE CONTRACT DOCUMENT SET WITH ALL OTHER TRADES FOR PROPER INSTALLATION OF WORK.
- BEFORE SELECTING MATERIALS AND/OR EQUIPMENT AND PROCEEDING WITH THE WORK, INSPECT ALL AREAS TO INSURE SUITABILITY, FIT, CLEARANCES, AND INTERCONNECTIONS.
- COORDINATE LOCATION AND ROUTING OF DUCTWORK AND PIPING TO MAINTAIN CEILING HEIGHT AS SHOWN ON REFLECTED CEILING PLAN, MAKE CHANGES IN DIRECTION AND FITTINGS TO MAINTAIN CLEARANCE ABOVE CEILING.
- FABRICATE AND INSTALL SUPPLY AND RETURN DUCTWORK IN PRE-MEASURED LENGTHS SO THAT DUCT FLANGES AND DUCT SUPPORTS CLEAR LIGHT FIXTURES AND STRUCTURAL SUPPORT STEEL TO MINIMIZE CLEARANCE REQUIREMENTS ABOVE CEILING SPACE. COORDINATE WORK WITH STRUCTURAL PLANS AND REFLECTED CEILING PLANS.
- PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCT AND BRANCH DUCT SERVING AN AIR INLET OR OUTLET INCLUSIVE OF THOSE NOT SHOWN ON PLANS. LOCATE DAMPER AS FAR AWAY FROM INLET/OUTLET AS POSSIBLE. DO NOT INSTALL DAMPERS AT OR INTEGRAL TO REGISTERS OR DIFFUSERS.
- ALLOW 6" MINIMUM CLEAR SPACE IN FRONT OF VOLUME DAMPER (VD) HANDLES IN CEILING PLENUMS AND MARK VD WITH AN IDENTIFIABLE FLAG.
- PROVIDE WIRE MESH SCREEN OVER ALL RETURN AND EXHAUST DUCT OPENINGS THAT ARE WITHOUT GRILLES.
- PROTECT AND FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS AS REQUIRED BY THE JURISDICTION. PERFORMANCE SHALL MATCH OR EXCEED THE RATING OF THE WALL AS NOTED BY THE ARCHITECTURAL DRAWINGS.
- CONTROLS CONTRACTOR TO PROVIDE BMS PANELS, COORDINATE LOCATIONS WITH DIVISION 26. REFER TO ELECTRICAL DRAWINGS FOR POWER CIRCUITING AND PROPOSED LOCATIONS.
- SUPPORT MECHANICAL EQUIPMENT INDEPENDENTLY FROM STRUCTURE. WHERE BUILDING RULES AND REGULATIONS DO NOT PERMIT ATTACHMENT TO METAL DECKS CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL BRACING AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AN INDOOR AIR QUALITY FLUSH-OUT PRIOR TO HAND-OVER AND SPACE OCCUPANCY. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE WITH APPLICABLE TRADES.



2 HVAC AIRFLOW SCHEMATIC
 NOT TO SCALE



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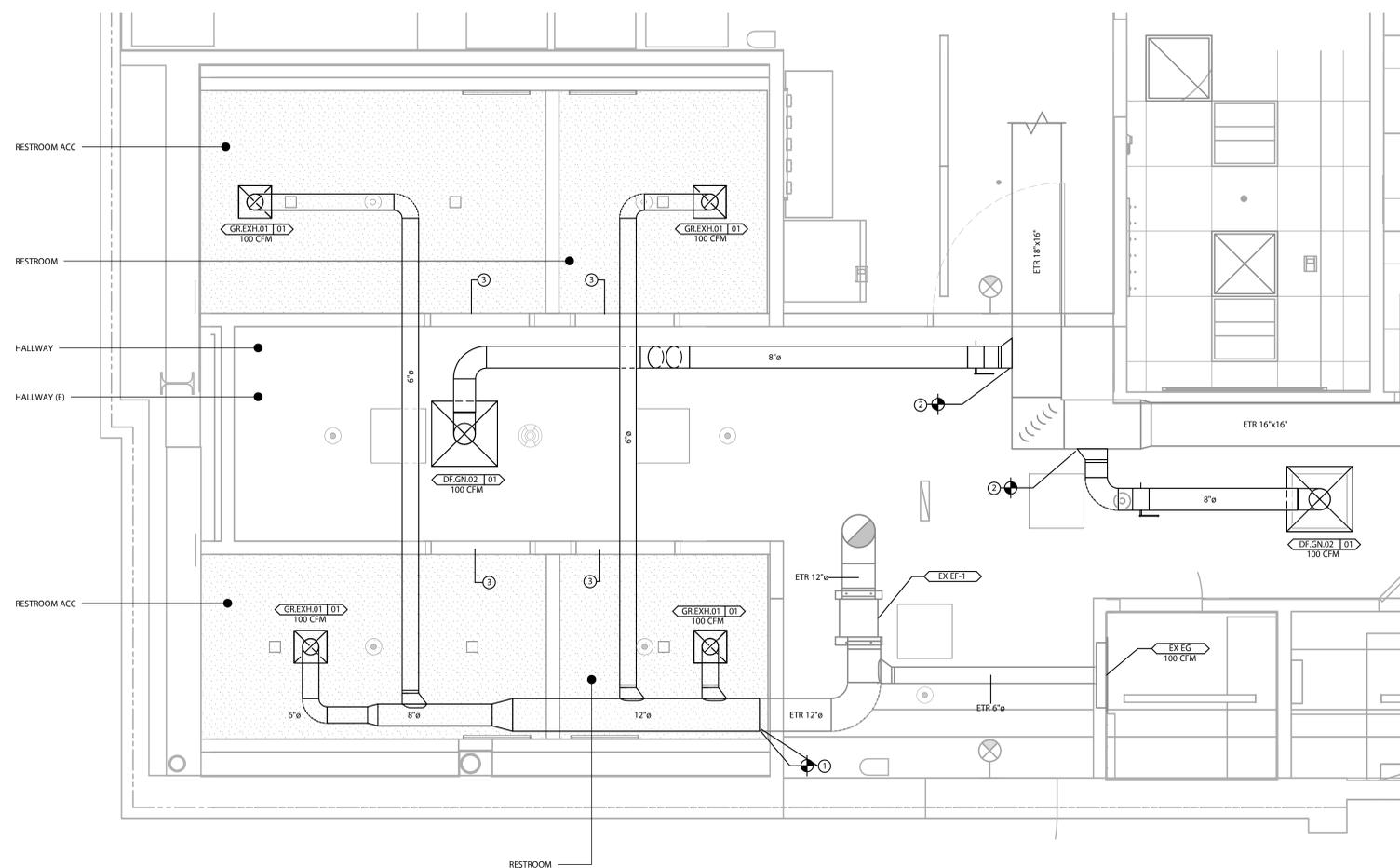
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 TES Engineering
 www.tesengineering.com

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MECHANICAL GENERAL
 NOTES, SCHEDULES,
 SYMBOLS & HVAC
 AIRFLOW SCHEMATIC



1 BACKSTAGE - MECHANICAL PLAN
1/2" = 1'-0"

SHEET NOTES

1. LIMITED ABOVE CEILING CLEARANCES EXIST. COORDINATE LOCATION AND ELEVATIONS OF MECHANICAL WORK WITH ALL DUCTWORK, SPRINKLERS, LIGHT FIXTURES, AND OTHER CEILING BUILT-IN FIXTURES.

KEY NOTES

1. CONNECT INTO EXISTING EXHAUST AIR DUCT MAIN.
2. CONNECT TO EXISTING SUPPLY AIR DUCT.
3. 3/4" UNDERCUT DOORS FOR TRANSFER AIR. REFER TO ARCHITECTURAL DRAWINGS.

SYMBOLS

- SUPPLY DIFFUSER
- CONCENTRIC DUCT TRANSITION
- EXHAUST GRILLE
- SUPPLY DUCT ELBOW UP OR DOWN
- RETURN DUCT ELBOW UP OR DOWN
- SERVICE CLEARANCES VAV BOX
- SUPPLY DIFFUSER WITH SECTORIZING BAFFLES - HATCHED QUADRANT INDICATES BLOCKED AIR FLOW



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BACKSTAGE -
MECHANICAL PLAN

M-161



PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	CO, WCO, FCO	CLEANOUT, WALL CLEANOUT, FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
	S OR W	SOIL OR WASTE ABOVE GRADE OR FLOOR
	S OR W	SOIL OR WASTE BELOW GRADE OR FLOOR
	D	INDIRECT DRAIN
	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	G	GAS PIPING
	F	FIRE PIPING
	SPR	SPRINKLER PIPING
	BV	BALL VALVE
	GV, SOV	GATE VALVE, SHUT-OFF VALVE
	PRV	PRESSURE REDUCING VALVE
		DIRECTION OF FLOW
	WHA	WATER HAMMER ARRESTOR
	TP	TRAP PRIMER
	FD	FLOOR DRAIN
	POC	POINT OF CONNECTION
		PIPE RISING UP
		PIPE DROPPING DOWN
		FIRE SPRINKLER RISER
	WFU	WATER FIXTURE UNIT
	DFU	DRAINAGE FIXTURE UNIT
	WFM	WATER FLOW METER
	GFM	GAS FLOW METER

EQUIPMENT INDICATOR

	WH-1	IDENTIFIER
	XXXXXXX	OWNER PRODUCT CODE
	XXXXXXX	OWNER PRODUCT CODE W/ IDENTIFIER

PLUMBING FIXTURE SCHEDULE

EQUIPMENT INDICATOR OWNER PRODUCT CODE	IDENTIFIER	FIXTURE	ROUGH-IN SERVICES				MANUFACTURER	MODEL	FAUCET MANUFACTURER	FAUCET MODEL	FLOW RATE	ACCESSORIES	REMARKS
			COLD WATER	HOT WATER	WASTE	VENT							
P.EQ.FD.01		FLOOR DRAIN			3"	1 1/2"	ZURN	ZS41585, 3" BOTTOM OUTLET W/ 6" ROUND STRAINER				TRAP PRIMER CONNECTION	
P.F.DF.01		DRINKING FOUNTAIN	1/2"		2"	1 1/2"	HALSEY TAYLOR	HTHBWF-OVLSEBP-1					ADA COMPLIANT, HIGH/LOW FOUNTAIN W/BOTTLE FILLER
P.F.LAV.03		LAVATORY-WALL MOUNT	1/2"	1/2"	2"	1 1/2"	SLOAN	AER-DEC AD-81000	SLOAN	EFX-250	0.50 GPM		SS ANGLED ENCLOSURE, BASYS STYLE ESD 500 SOAP DISPENSER - CHROME, BASYS STYLE HAND DRYER - CHROME, FAH 653-A HOSE AND BRACKET, MUSTEE 67-2424 DURAGUARD WALL GUARDS.
P.F.SK.02	EX MS-1	MOP SINK	1/2"	1/2"	2"	1 1/2"	MUSTEE	63M-WHITE	SPEAKMAN COMMANDER	SC-5811-RCP	12.20 GPM		ADA COMPLIANT, DUAL FLUSH 0.8/1.6 GPF
P.F.WC.01		WATER CLOSET	1/2"		4"	2"	DURAVIT	2226090092					GERBERT DUOFIX CARRIER WITH SIGMA CONCEALED TANK 111.335.00.5; GERBERT SIGMA10 DUAL FLUSH HANDS-FREE ACTUATOR WITH MANUAL OVERRIDE 115.891.5N.5, BRUSHED STAINLESS STEEL; DURAVIT SLOW CLOSE OPEN FRONT SEAT 0064390000

WATER HEATER SCHEDULE

EQUIPMENT INDICATOR OWNER PRODUCT CODE	IDENTIFIER	FIXTURE	ROUGH-IN SERVICES			MANUFACTURER	MODEL	VOLTAGE	WATTS	ACCESSORIES	REMARKS
			COLD WATER	HOT WATER	INDIRECT WASTE						
-	EQ.WH.01	WATER HEATER	3/4"	3/4"	3/4"	A. O. SMITH	DEL-15	208 V	4000 W	15 GALLON TANK WITH DRAIN PLUG. PROVIDE INLET AND OUTLET HEAT FITTINGS FOR INSTALLATIONS WHERE RECIRCULATING HOT WATER SYSTEM IS NOT REQUIRED. SUPPLY WATER TEMPERATURE SET AT 140 °F	SINGLE 4000 WATT ELEMENT, DUAL RATED 208V SINGLE PHASE

EXPANSION TANK SCHEDULE

EQUIPMENT INDICATOR OWNER PRODUCT CODE	IDENTIFIER	MANUFACTURER	MODEL	REMARKS
-	ET-1	AMTROL	ST-5-C	REFER TO WATER HEATER DETAIL FOR INSTALLATION

RECIRCULATION PUMP SCHEDULE

EQUIPMENT INDICATOR OWNER PRODUCT CODE	IDENTIFIER	FIXTURE	HOT WATER ROUGH IN	MANUFACTURER	MODEL	ACCESSORIES	REMARKS
-	RHWP-1	RE-CIRCULATING HOT WATER PUMP	3/4"	TACO	009-SF5		SET TO 0.5 GPM, TDH OF 10'-0", 120-1-60, 3250 RPM, 1/8 HP WITH 3/4" SUCTION AND DISCHARGE. PUMP CONSTRUCTION TO BE STAINLESS STEEL WITH RETURN WATER THERMOSTAT.

PLUMBING EQUIPMENT SCHEDULE

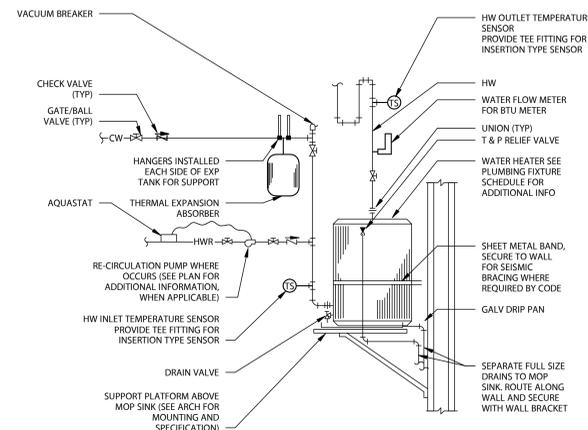
EQUIPMENT INDICATOR OWNER PRODUCT CODE	IDENTIFIER	FIXTURE	ROUGH-IN SYSTEM		MANUFACTURER	MODEL	ACCESSORIES	REMARKS
			COLD WATER	HOT WATER				
P.CTR.MTR.03		HOT WATER FLOW METER	-	3/4"	ONICON	F-1134		INLINE HOT WATER FLOW METER WITH 4-20 mA OUTPUT TO BTU-1
P.CTR.MTR.02		WATER FLOW METER	1 1/2"		ONICON	F-1100-10-A1-2223		DOMESTIC COLD WATER FLOW METER WITH 4-20mA OUTPUT TO BMS PANEL NSF61
P.CTR.MTR.01		DOMESTIC HOT WATER ENERGY METER		3/4"	ONICON	SYSTEM-40 BTU METER SYSTEM		CONTROLS CONTRACTOR TO PROVIDE BACKNET MSTP INTEGRATION TO BMS. INTEGRATE BTU FLOW METER WITH INSERTION TYPE TEMPERATURE SENSOR FOR FULL ENERGY MONITORING CAPABILITY, NSF61
P.EQ.ACC.02		WALL CLEANOUT			ZURN	Z1446-BP		
-	BFP-1	CHEMICAL DISPENSER BACKFLOW PREVENTER	1/2"		WATTS REGULATOR	LF-009-QT		
-	TP-1	TRAP PRIMER	1/2"		PRECISION PLUMBING PRODUCTS	P2-500, P1-500	DISTRIBUTION UNIT FOR MULTIPLE FLOOR DRAINS	1/2" COPPER TYPE "L" TO FLOOR DRAIN
-	WHA-1	WATER HAMMER ARRESTOR			SIoux CHIEF	650 SERIES		OR EQUAL

RESPONSIBILITY SCHEDULE

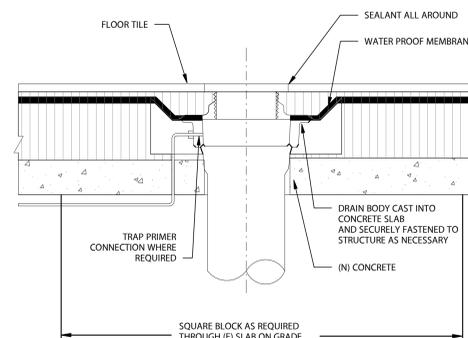
REFER TO ARCHITECTURAL SHEETS FOR COMPLETE BREAKDOWN OF PROJECT RESPONSIBILITIES

GENERAL NOTES:

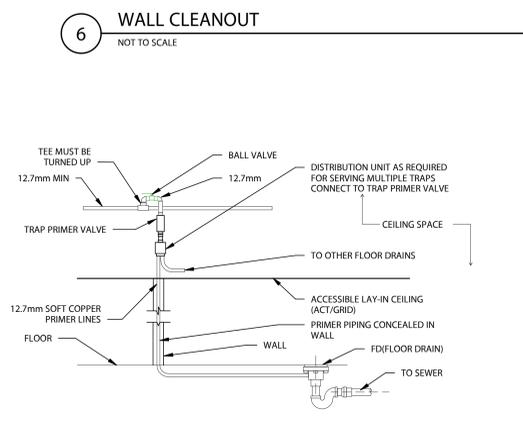
- ITEMS TAGGED WITH AN OWNER PRODUCT CODE HAVE BEEN STANDARDIZED AMONG THE OWNER'S PROJECTS, AND SHALL BE USED WHENEVER POSSIBLE. SUBSTITUTION REQUESTS MAY BE SUBMITTED PER THE CRITERIA IN THE SPECIFICATIONS. SOME OWNER PRODUCT CODE TAGS ALSO INCLUDE AN IDENTIFIER SUFFIX, TO PROVIDE INFORMATION ABOUT SIZE, LOCATION, OR OTHER CHARACTERISTICS OF AN OWNER PRODUCT.
- ITEMS TAGGED ONLY WITH AN IDENTIFIER ARE NOT STANDARDIZED, AND PROJECT TEAMS SHALL SELECT THE APPROPRIATE PRODUCT FOR EACH PROJECT, BASED ON PROJECT CONDITIONS AND ANY REQUIREMENTS LISTED IN THE SPECIFICATIONS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.



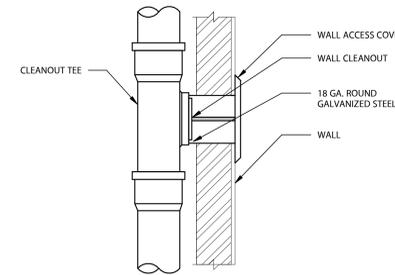
4 WATER HEATER WITH RE-CIRCULATION PUMP
NOT TO SCALE



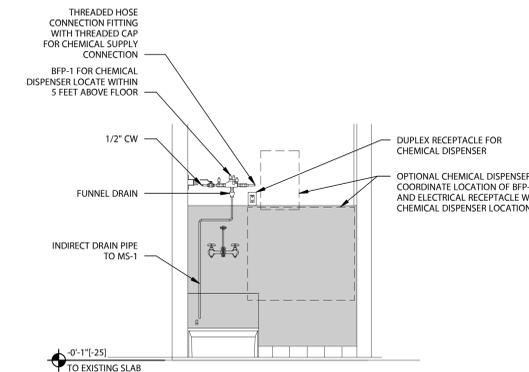
3 FLOOR DRAIN
NOT TO SCALE



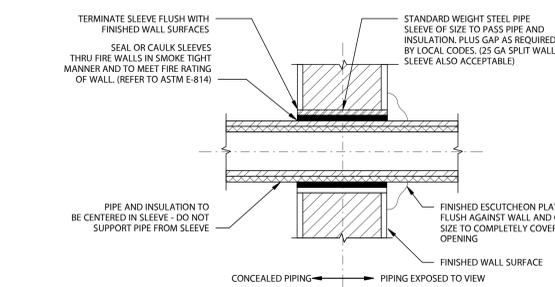
2 TRAP PRIMER
NOT TO SCALE



6 WALL CLEANOUT
NOT TO SCALE



5 WATER FLOW METER ASSEMBLY
NOT TO SCALE



1 PIPE THRU FIRE RATED WALL
NOT TO SCALE

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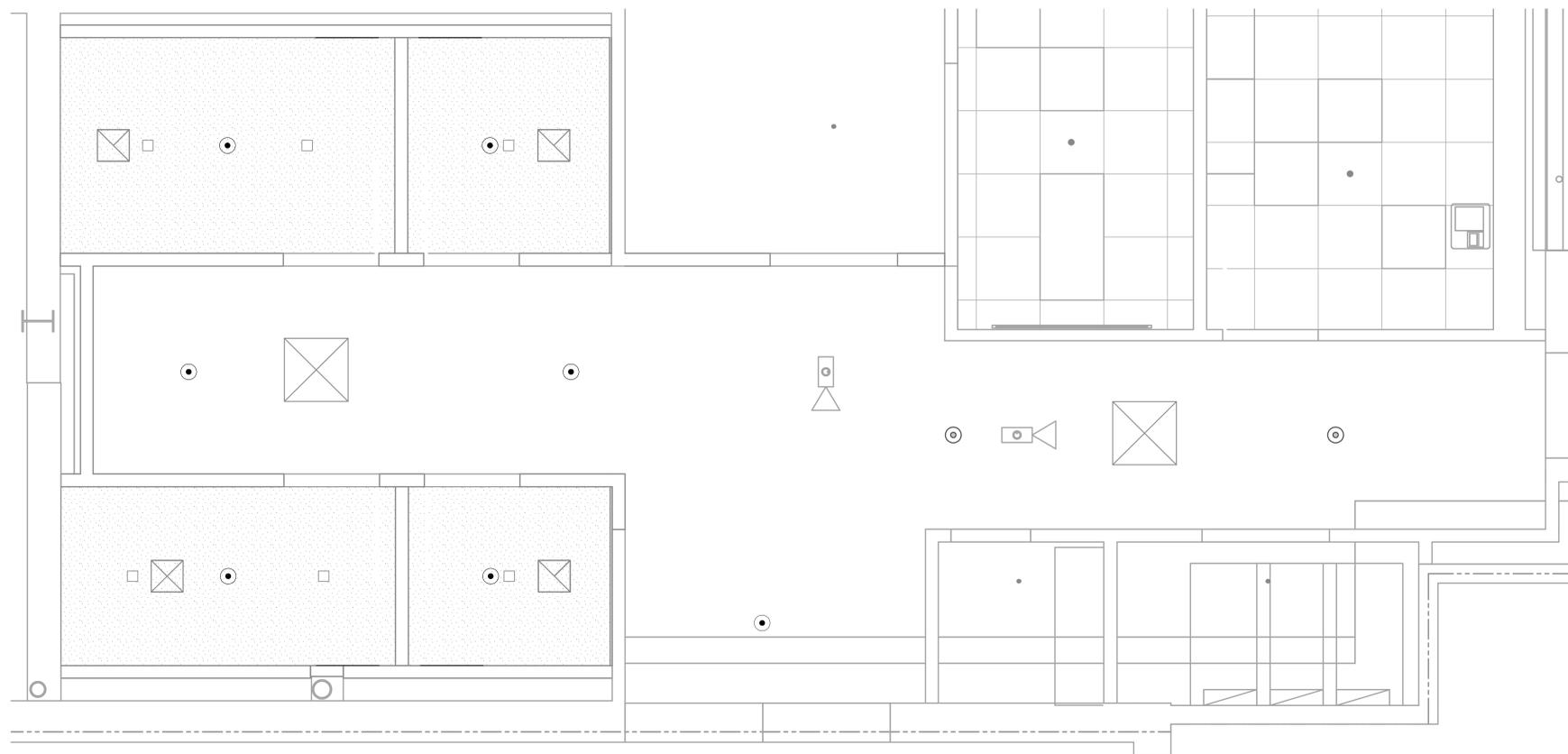
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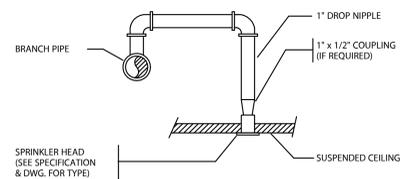
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PLUMBING GENERAL
NOTES, SCHEDULES,
DETAILS & SYMBOLS

P-001



1 BACKSTAGE - FIRE PROTECTION PLAN
1/2" = 1'-0"



2 SPRINKLER HEAD CONNECTION DETAIL
NOT TO SCALE

SHEET NOTES

- 1. SPRINKLER HEADS SHOWN IN ACOUSTIC CEILINGS ARE TO BE CENTERED IN PANELS UNLESS OTHERWISE NOTED

SYMBOLS

- EQ.SPR.05 STANDARD UPRIGHT SPRINKLER HEAD COLOR PER SPEC
- EQ.SPR.06 SEMI-RECESSED PENDANT SPRINKLER HEAD COLOR PER SPEC

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BACKSTAGE - FIRE
PROTECTION PLAN AND
DETAIL

FP-161

ABBREVIATIONS

A	AMP, AMPERES
AC	ACROSS COUNTER
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AV	AUDIO/VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BR	BREAKER
BLOG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
C/R	CONTROLLED RECEPTACLE
CT	CURRENT TRANSFORMER
CW	COLD WATER
D	DEEP, DEPTH
DACT	DIGITAL ALARM COMMUNICATING TRANSMITTER
DB	DECIBEL
DDC	DIRECT DIGITAL CONTROL
Δ	DELTA
DA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EXR	EXISTING TO REMAIN
EW	ELECTRICAL WATER COOLER
EXH	EXHAUST
EX, EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FABA	FIRE ALARM REMOTE ANNUNCIATOR
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FT	FOOT, FEET
G, GRD	GROUND
GC	GENERAL CONTRACTOR
GFI, GFCI	GROUND FAULT INTERRUPTER
HID	HIGH INTENSITY DISCHARGE
HTR	HEATER
HVAC	HEATING, VENTILATING & A/C
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
IN	INCH, INCHES
KVA	KILOVOLT-AMPS
KWH	KILOWATTS KILOWATT-HOUR
L	LENGTH
LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MH	METAL HALIDE
MIN	MINIMUM
MOP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
MUA	MAKE UP AIR
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
O/H	OVERHEAD
OS	OCCUPANCY SENSOR
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
P	POLE
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PF	POWER FACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
REV	REVISION
REX	REMOVE EXISTING
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM
RR	REMOVE AND RELOCATE
RTU	ROOF TOP UNIT
SE	SERVICE ENTRANCE
SF	SQUARE FEET, SQUARE FOOT
T/C	TIME CLOCK
THRU	THROUGH
TRANS	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES, INC.
UN	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
VA	VOLT-AMPERE
W	WATT, WIDTH
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE

EQUIPMENT INDICATOR

XXX	IDENTIFIER
XXX XXX XX	OWNER PRODUCT CODE
XXX XXX XX XXX	OWNER PRODUCT CODE WITH IDENTIFIER

REFERENCE SYMBOLS

(NOT ALL SYMBOLS USED ON DRAWINGS)

---	WIRE CONDUIT WITHIN FLOOR
---	WIRE CONDUIT WITHIN WALL OR CEILING
---	MECHANICAL SYSTEM TOUCH PANEL
□	ELECTRICAL PANEL
□	ELECTRICAL TRANSFORMER
⊕	20A/125V DUPLEX RECEPTACLE (WHITE)
⊕	20A/125V CEILING RECEPTACLE (BLACK)
⊕	20A/125V DUPLEX RECEPTACLE - HORIZONTAL
⊕	20A/125V QUADRUPLX RECEPTACLE (WHITE)
⊕	30A/125V TWIST LOCK POWER RECEPTACLE
⊕	15A/125V TWIST LOCK POWER RECEPTACLE
⊕	20A/125V CEILING SOFFIT RECEPTACLE
GFI	20A/125V GFI DUPLEX RECEPTACLE (WHITE)
⊕	20A/125V QUADRUPLX RECEPTACLE - 2 CONTROLLED & 2 UNCONTROLLED
⊕	SINGLE PLEX RECEPTACLE ON PLUG STRIP
HW F20	20A DOUBLE POLE SWITCH
HW F30	30A DOUBLE POLE SWITCH
XXA	DISCONNECT SWITCH "XXA" INDICATES AMPERAGE RATING
⊕	JUNCTION BOX - CEILING MOUNTED
⊕	JUNCTION BOX - WALL MOUNTED
⊕	SHALLOW STONE FLOOR DATA BOX - SALES
⊕	SHALLOW STONE FLOOR 4 DATA BOX - SALES
⊕	TABLE LEG SHALLOW STONE FLOOR DATA BOX - SALES
□	AVENUE WALL EQUIPMENT (DMX REPEATER)
⊕	ILLUMINATED LOGO
⊕	1-PORT DATA PLATE (WHITE)
⊕	1-PORT DATA PLATE (BLACK)
⊕	2-PORT DATA PLATE (WHITE)
⊕	4-PORT DATA PLATE (WHITE)
⊕	6-PORT DATA PLATE (WHITE)
□	WIRELESS ACCESS POINT - INTERNAL ANTENNA
□	5G WIRELESS ACCESS POINT - INTERNAL ANTENNA
⊕	STAND-ALONE WALL MOUNTED OCCUPANCY SENSOR
⊕	TOUCH SCREEN CONTROLLER
⊕	2 BUTTON LIGHTING CONTROLLER
⊕	CEILING MOUNTED OCCUPANCY SENSOR
⊕	SECURITY ALARM KEYPAD
⊕	SECURITY CAMERA - (SALES)
M	MOTION SENSOR - CEILING MTD (BKS)
M	MOTION SENSOR - CEILING MTD (SALES)
G	GLASS BREAK
S	SHOPPER TRACK
⊕	SOUND SYSTEM SPEAKER - (SALES)
DB	DOOR BELL
PB	PUSH BUTTON
KP	KEYPAD
KS	KEYPAD AND CARD READER
⊕	MOTION SENSOR - WALL MTD (BKS)
⊕	MOTION SENSOR - CEILING MTD
⊕	DOOR CONTACT
⊕	MOTION SENSOR - WALL MTD
⊕	SECURITY CAMERA - CEILING MTD (BKS)
⊕	SECURITY CAMERA - OPEN CEILING MTD (BKS)
⊕	WALL MOUNT FIRE ALARM AUDIO/VISUAL DEVICE
⊕	CEILING MOUNT FIRE ALARM AUDIO/VISUAL DEVICE
⊕	CEILING MOUNT FIRE ALARM VISUAL ONLY DEVICE
⊕	DATA/VIDEO WALL CABINETS
⊕	ILLUMINATED LOGO

EQUIPMENT RESPONSIBILITY MATRIX

EQUIPMENT INDICATOR		DESCRIPTION	MANUFACTURER	SPECIFICATION #	FURNISHED BY	INSTALLED BY	QUANTITY
OWNER PRODUCT CODE	IDENTIFIER						
-	-	DOUBLE POLE SWITCH-30A	LEVITON	SWITCH-3032-2W COVERPLATE: 80501-W	GENERAL CONTRACTOR	GENERAL CONTRACTOR	1
-	T59	STAND-ALONE WALL MOUNTED OCCUPANCY SENSOR	LUTRON	MS-VPSM-WH	OWNER LIGHTING VENDOR	GENERAL CONTRACTOR	4
-	T78	CEILING MOUNTED OCCUPANCY SENSOR	LUTRON	OCC SENSOR: LOS CDT-2000-WH POWER PACK: PP-DV	OWNER LIGHTING VENDOR	GENERAL CONTRACTOR	1
-	T200	CONTROL INTERFACE	LUTRON	DMX-ID	OWNER LIGHTING VENDOR	GENERAL CONTRACTOR	1
-	T201	CONTROL INTERFACE	LUTRON	GRX-TVI	OWNER LIGHTING VENDOR	GENERAL CONTRACTOR	1
ELF.GL.06	-	RECESSED 2' x 2' LED (2000 LUMENS)	FOCAL POINT	FZR-22-FL-2000L-35K-1C-UNV-LD1-ST-WH EM-FZR-22-FL-2000L-35K-1C-UNV-LD1-ST-EM-WH	GENERAL CONTRACTOR	GENERAL CONTRACTOR	6
ELF.GL.12	-	SQUARE TRIMLESS RESTROOM DOWNLIGHT	FOCAL POINT	FLC33D-SDT-SW-1500L-UNV-D11-T-EMR/LC33-SD T-SW-1500L-935-DNT-WVFL-***	GENERAL CONTRACTOR	GENERAL CONTRACTOR	6
ELF.GL.13	-	WALL MOUNTED RESTROOM VANITY LIGHT	EDGE LIGHTING	BV2-1RE-24IN-35K-5A / PS-40L-ELV-24DC	GENERAL CONTRACTOR	GENERAL CONTRACTOR	4
ERPT.PWR.02	-	DUPLEX RECEPTACLE-20A/125V NEMA 5-20R (WHITE)	LEVITON	RECEPTACLE: 16352-W COVERPLATE: 80301-SW	GENERAL CONTRACTOR	GENERAL CONTRACTOR	1
ERPT.PWR.13	-	GFI RECEPTACLE-20A/125V NEMA 5-20R (WHITE)	LEVITON	RECEPTACLE: GFWT2-W COVERPLATE: 80301-SW	GENERAL CONTRACTOR	GENERAL CONTRACTOR	2

EQUIPMENT RESPONSIBILITY MATRIX NOTES:
1. UNLESS OTHERWISE NOTED, ALL OTHER EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.

BACKSTAGE LUMINAIRE SCHEDULE

EQUIPMENT INDICATOR		WATTAGE		DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	FURNISHED BY	INSTALLED BY	QUANTITY
OWNER PRODUCT CODE	IDENTIFIER	LAMP	WATTAGE							
ELF.GL.06	-	LED	18 W	RECESSED 2' x 2' LED (2000 LUMENS)	FOCAL POINT	FZR-22-FL-2000L-35K-1C-UNV-LD1-ST-WH	120 V	GENERAL CONTRACTOR	GENERAL CONTRACTOR	6
ELF.GL.12	-	LED	19 W	SQUARE TRIMLESS RESTROOM DOWNLIGHT	FOCAL POINT	FLC33D-SDT-SW-1500L-UNV-D11-T-EMR/LC33-SD T-SW-1500L-935-DNT-WVFL-***	120 V	GENERAL CONTRACTOR	GENERAL CONTRACTOR	6
ELF.GL.13	-	LED	19 W	WALL MOUNTED RESTROOM VANITY LIGHT	EDGE LIGHTING	BV2-1RE-24IN-35K-5A / PS-40L-ELV-24DC	120 V	GENERAL CONTRACTOR	GENERAL CONTRACTOR	4



Project Information
Energy Code: 2018 IECC
Project Title: Apple Nanuet Alteration
Project Type: Alteration

Construction Site: 8115 Fashion Dr. Nanuet, NY 10954
Owner/Agent:
Designer/Contractor: TES Engineering 23760 First St. Cleveland, OH 44145

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Restroom (Common Space Types:Restrooms)	192	0.85	163
2-Corridor (Common Space Types:Corridor/Transition <8 ft wide)	362	0.66	239
Total Allowed Watts =			402

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Restroom (Common Space Types:Restrooms 192 sq.ft.)				
LED: LF.GL.12; Other:	1	6	19	114
LED: 3.LF.GL.13; Other:	1	4	19	76
Corridor (Common Space Types:Corridor/Transition <8 ft wide 362 sq.ft.)				
LED: LF.GL.06; Other:	1	6	18	108
Total Proposed Watts =				298

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kyle Kilmer
Name - Title: Kyle Kilmer Signature Date: 11/30/2021

Project Title: Apple Nanuet
Data filename: G:\Apple\Gender Neutral Restrooms\Nanuet - R049\Engineering\Electrical\Nanuet Comcheck.cc Page 1 of 6
Report date: 11/30/21



Apple Inc.
One Apple Park Way
Cupertino, CA
95014

Architect:
MBH Architects
www.mbharch.com

Consultant:
TES Engineering
www.tesengineering.com

Apple Store
West Town Mall
Nanuet, NY

Project Number:
This set originated using Apple Imperial Bulletin 9 Dated 04/16/2021 Printed Full (30"x42"), Half (15"x21")

Issued/Revised Date
90% CD SET 12/3/2021

GENERAL NOTES:

- ITEMS TAGGED WITH AN OWNER PRODUCT CODE HAVE BEEN STANDARDIZED AMONG THE OWNER'S PROJECTS, AND SHALL BE USED WHENEVER POSSIBLE. SUBSTITUTION REQUESTS MAY BE SUBMITTED PER THE CRITERIA IN THE SPECIFICATIONS. SOME OWNER PRODUCT CODE TAGS ALSO INCLUDE AN IDENTIFIER SUFFIX, TO PROVIDE INFORMATION ABOUT SIZE, LOCATION, OR OTHER CHARACTERISTICS OF AN OWNER PRODUCT.
- ITEMS TAGGED ONLY WITH AN IDENTIFIER ARE NOT STANDARDIZED, AND PROJECT TEAMS SHALL SELECT THE APPROPRIATE PRODUCT FOR EACH PROJECT, BASED ON PROJECT CONDITIONS AND ANY REQUIREMENTS LISTED IN THE SPECIFICATIONS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.

REFERENCE SYMBOLS,
LUMINAIRE SCHEDULE &
RESPONSIBILITY MATRIX



1 BACKSTAGE - LIGHTING PLAN
1/2" = 1'-0"

SHEET NOTES

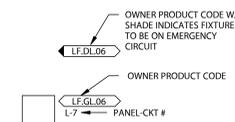
- GENERAL CONTRACTOR / ELECTRICAL CONTRACTOR MUST VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS, AND SHALL THOROUGHLY REVIEW THE COMPLETE DRAWINGS SET BEFORE FILLING THE BID FORM. IN THE BID, THE CONTRACTOR SHALL ACCOUNT FOR THE FURNISHING AND INSTALLMENT OF CONDUIT, BOXES, AND WIRING NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR SO THAT INTERFERENCE WITH OTHER TRADES CAN BE AVOIDED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INCREASED WIRE SIZES DUE TO FIELD CONDITIONS RESULTING IN EXTENDED CONDUIT PATHS. GROUND WIRE SIZES ARE REQUIRED TO BE ADJUSTED PER ARTICLE 250 OF THE NEC WHEN WIRES ARE INCREASED FOR VOLTAGE DROPS.
- ALL LOW VOLTAGE WIRING SHALL BE SUPPORTED BY HOOKS OR RUN IN CABLE TRAYS OR WIRE BASKETS PER THE SPECIFICATIONS UNLESS OTHERWISE REQUIRED BY CODE TO BE RUN IN CONDUIT. VERIFY ALL REQUIREMENTS PRIOR TO BID.
- ALL LOW VOLTAGE WIRING SHALL BE SUPPORTED PER THE SPECIFICATIONS.
- ALL LIGHT FIXTURES IN THE BACKSTAGE ARE SUITABLE FOR GENERAL AND EMERGENCY USE, AS DETERMINED BY WIRING THE FIXTURES THROUGH THE LIGHTING PANEL OR THROUGH THE INVERTER.
- CONTRACTOR MAY COMBINE THREE (3) CIRCUITS PER NEUTRAL AND GROUND WIRE, WHERE NEUTRAL SERVES MORE THAN ONE PHASE FOR COMPUTER CIRCUITS, THE NEUTRAL SHALL BE SIZED AT TWICE THE CURRENT CARRYING CAPACITY OF THE PHASE WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMMON TRIP FOR ALL UNGROUNDED CONDUCTORS SHARING THE SAME NEUTRAL. THE COMMON TRIP MAY BE A TWO OR THREE POLE CIRCUIT BREAKER, OR APPROVED HANDLE TIE.

- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR SO THAT INTERFERENCE WITH OTHER TRADES CAN BE ALL CABLE TROUGHS, CABLE TRAYS, RACEWAYS, AND CONDUIT RUNS SHALL FOLLOW A DIRECT PATH ALONG THE LEFT AND RIGHT SIDE OF THE STORE TO PROVIDE THE SHORTEST PATH BACK TO THE ELECTRICAL PANELBOARDS TO MINIMIZE VOLTAGE DROP OF BRANCH FEEDERS.
- WIRE ALL NIGHT LIGHTING, EXIT SIGNS, EMERGENCY FIXTURES AHEAD OF LOCAL SWITCHING, UNLESS OTHERWISE NOTED.

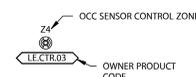
KEY NOTES

- ALL FIXTURE TAGS BEGINNING WITH A SHADED REGION SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BATTERY PACK. WIRE ALL EMERGENCY FIXTURES AHEAD OF LIGHTING CONTROL, UNLESS OTHERWISE NOTED. THE BATTERY PROVIDES EMERGENCY POWER TO EACH FIXTURE TO ILLUMINATE THE MEANS OF EGRESS FOR A DURATION OF NOT LESS THAN 90 MINUTES.
- EXTEND EXISTING BRANCH CIRCUIT WIRING TO LIGHT FIXTURE LOCATION AS INDICATED ON PLAN. PROVIDE NEW WIRING WHERE REQUIRED. VERIFY EXISTING CIRCUIT LOAD DOES NOT EXCEED 80% OF THE CIRCUIT BREAKER RATING.

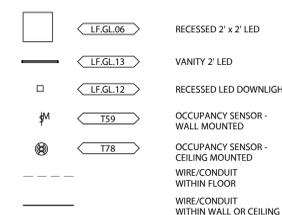
FIXTURE LABELING LEGEND



OCC SENSOR/KEYPAD LABELING LEGEND



SYMBOLS



Apple Inc.
One Apple Park Way
Cupertino, CA
95014

Architect:
MBH Architects
www.mbharch.com

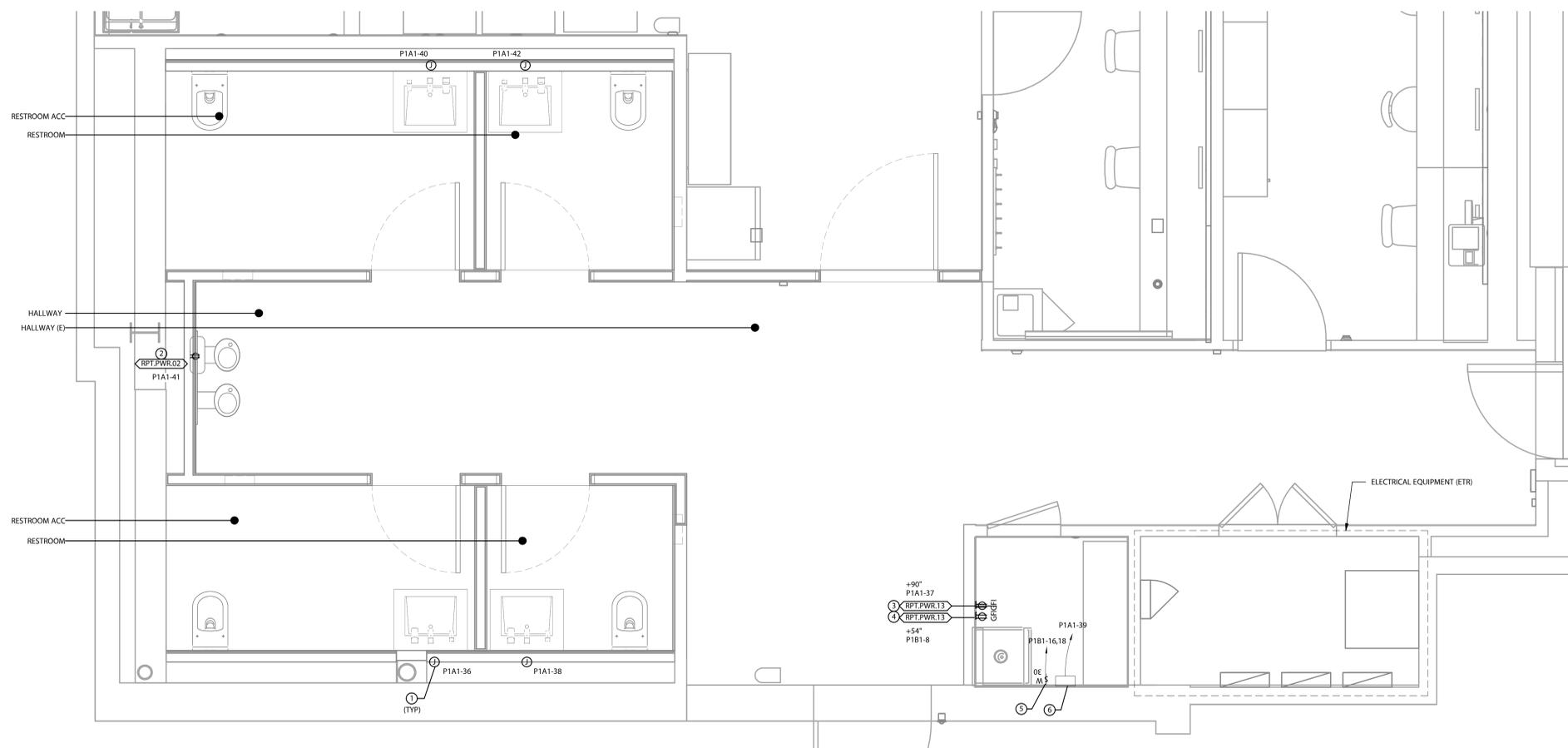
Consultant:
TES Engineering
www.tesengineering.com

Apple Store
West Town Mall
Nanuet, NY

Project Number:
This set originated using
Apple Imperial Bulletin 9
Dated 04/16/2021
Printed Full (30"x42"), Half (15"x21")
Issued/Revised Date
90% CD SET 12/3/2021

BACKSTAGE - LIGHTING
PLAN

E-161



2 BACKSTAGE - POWER PLAN
1/2" = 1'-0"

Apple Inc.
One Apple Park Way
Cupertino, CA
95014

Architect:
MBH Architects
www.mbharch.com

Consultant:
TES Engineering
www.tesengineering.com

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BACKSTAGE - POWER
PLAN

E-241

SHEET NOTES

- GENERAL CONTRACTOR / ELECTRICAL CONTRACTOR MUST VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS, AND SHALL THOROUGHLY REVIEW THE COMPLETE DRAWINGS SET BEFORE FILLING THE BID FORM. IN THE BID, THE CONTRACTOR SHALL ACCOUNT FOR THE FURNISHING AND INSTALLATION OF CONDUIT, BOXES, AND WIRING NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR SO THAT INTERFERENCE WITH OTHER TRADES CAN BE AVOIDED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INCREASED WIRE SIZES DUE TO FIELD CONDITIONS RESULTING IN EXTENDED CONDUIT PATHS. GROUND WIRE SIZES ARE REQUIRED TO BE ADJUSTED PER ARTICLE 250 OF THE NEC WHEN WIRES ARE INCREASED FOR VOLTAGE DROPS.
- ALL LOW VOLTAGE WIRING SHALL BE SUPPORTED BY J-HOOKS OR RUN IN CABLE TRAYS OR WIRE BASKETS PER THE SPECIFICATIONS UNLESS OTHERWISE REQUIRED BY CODE TO BE RUN IN CONDUIT. VERIFY ALL REQUIREMENTS PRIOR TO BID.
- CONTRACTOR MAY COMBINE THREE (3) CIRCUITS PER NEUTRAL AND GROUND WIRE, WHERE NEUTRAL SERVES MORE THAN ONE PHASE FOR COMPUTER CIRCUITS. THE NEUTRAL SHALL BE SIZED AT TWICE THE CURRENT CARRYING CAPACITY OF THE PHASE WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMMON TRIP FOR ALL UNGROUNDED CONDUCTORS SHARING THE SAME NEUTRAL. THE COMMON TRIP MAY BE A TWO OR THREE POLE CIRCUIT BREAKER, OR APPROVED HANDLE TIE.

KEY NOTES

- PROVIDE RECEPTACLE FOR POWER TO SOAP DISPENSER. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE 120V CIRCUIT FOR WATER FOUNTAIN BOTTLE FILLING RECEPTACLE AND JUNCTION BOX. VERIFY EXACT LOCATION WITH ARCHITECT.
- PROVIDE RECEPTACLE FOR RECIRCULATION DOMESTIC HOT WATER PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- PROVIDE RECEPTACLE FOR CHEMICAL DISPENSER. COORDINATE LOCATION WITH ARCHITECT AND MANUFACTURER'S INSTRUCTIONS.
- E.C. TO PROVIDE DISCONNECT SWITCH FOR WATER HEATER. WIRE WITH #10, 110GND-3/4" C TO CIRCUIT INDICATED.
- PROVIDE 120V CIRCUIT FOR DOMESTIC HOT WATER ENERGY METER LOCATED AT 10'-0" AFF. VERIFY EXACT LOCATION WITH ARCHITECT.

SYMBOLS

	RPT.PWR.02	20A/125V DUPLEX RECEPTACLE
	RPT.PWR.13	30A/125V GFI DUPLEX RECEPTACLE
	30	30A DOUBLE POLE SWITCH
	JB	JUNCTION BOX - CEILING MOUNTED
	---	WIRE/CONDUIT WITHIN FLOOR
	---	WIRE/CONDUIT WITHIN WALL OR CEILING





PANEL NAME		CIRCUIT BREAKER REMARKS		PANEL CHARACTERISTICS				CIRCUIT BREAKER TYPE/ACCESSORY		OPTIONS	
P1A1		CC=CONTROLLED CIRCUIT, EX=EXISTING LOAD TO REMAIN, ML=MODIFIED LOAD ON EXISTING BREAKER, CL=CIRCUIT WIRED THROUGH CURRENT LIMITER		225	200	208 / 120	10K	A=AFICI, S=SHUNT TRIP, H=HACR, G=GFCL, L=CIB LOCK, HT=HANDLE TIE, NB=NEW CIRCUIT BREAKER	MOUNTING SURFACE	BUS MATERIAL COPPER	
Ckt No	Breaker (Remarks)	LOAD DESCRIPTION	Load Type	Load VA	Phasing (L1, L2, L3)	Load VA	Load Type	LOAD DESCRIPTION	Breaker (Remarks)	Ckt No	
1	201 EX	SHOW WINDOW RECEIPT	R	360		360	R	SHOW WINDOW RECEIPT	EX 201 2	2	
3	201 EX	SHOW WINDOW RECEIPT	R	540		540	R	SHOW WINDOW RECEIPT	EX 201 4	4	
5	201 EX	T8B A-BAY	X	1,920		1,920	X	T8B A-BAY	EX 201 6	6	
7	201 EX	T8B A-BAY	X	1,920		1,920	X	T8B A-BAY	EX 201 8	8	
9	201 EX	T8C A-BAY	X	1,920		1,920	X	T8C A-BAY	EX 201 10	10	
11	201 EX	T8C A-BAY	X	1,920		1,920	R	DISPLAY TABLE FLOORBOX	EX 201 12	12	
13	201 EX	DISPLAY TABLE FLOORBOX	R	960		960	R	DISPLAY TABLE FLOORBOX	EX 201 14	14	
15	201 EX	DISPLAY TABLE FLOORBOX	R	960		1,920	R	DISPLAY TABLE FLOORBOX	EX 201 16	16	
17	201 EX	DISPLAY TABLE FLOORBOX	R	1,920			X	SPARE	EX 201 18	18	
19	201 EX	DISPLAY TABLE FLOORBOX	R	960		1,920	R	ROLLING GRILLE	EX 201 20	20	
21	201 EX	DISPLAY TABLE FLOORBOX	R	1,920		1,920	R	DISPLAY TABLE FLOORBOX	EX 201 22	22	
23	201 EX	DISPLAY TABLE FLOORBOX	R	960			X	SPARE	EX 201 24	24	
25	201 EX	DISPLAY TABLE FLOORBOX	R	1,920		960	R	PERSONAL TRAINING FLOORBOX	EX 201 26	26	
27	201 EX	PERSONAL TRAINING FLOORBOX	R	1,920			X	SPARE	EX 201 28	28	
29	201 EX	KIDS TABLE FLOORBOX	R	1,920		1,420	R	GENIUS BAR	EX 201 30	30	
31	201 EX	GENIUS BAR	X	1,420			X	SPARE	EX 201 32	32	
33	201 EX	TS C-BAY	X	1,920		300	X	DOOR OPERATOR	EX 201 34	34	
35	201 EX	TS C-BAY	R	1,920		1,560	X	RR FAUCET/DRYERS/OAP RECEIPT	NB.G 201 36	36	
37	201 ML	RR CIRCUIT PUMP	R	180		1,560	X	RR FAUCET/DRYERS/OAP RECEIPT	NB.G 201 38	38	
39	201 ML	HOT WATER METER	R	100		1,560	X	RR FAUCET/DRYERS/OAP RECEIPT	NB.G 201 40	40	
41	201 NB.G	WATER COOLER	R	180		1,560	X	RR FAUCET/DRYERS/OAP RECEIPT	NB.G 201 42	42	
PANEL NOTES: EXISTING PANEL TO REMAIN. ITEMS IN BOLD HAVE BEEN UPDATED				4,837		5,070		PANEL P1A2		SUBFEED LUGS	
Lighting Load				Total Lighting Load "L" (KVA)		14.12	22.15		Total Connected Load in KVA - Phase A		
Demand %				Total Track Lighting Load "D" (KVA)		0.00	21.84		Total Connected Load in KVA - Phase B		
Show Window				Total Receptacle Load "R" (KVA)		30.56	23.75		Total Connected Load in KVA - Phase C		
Length (FT)				Total Show Window Load "C" (KVA)		0.00	67.84		Total Connected Load in KVA - All Phases		
HVAC Load				Total Motor Load "M" (KVA)		0.00	188.3		Total Connected Load in Amps		
Demand %				Total Electric Heat Load "H" (KVA)		0.00	61.09		Total NEC Demand Load in KVA - All Phases		
Misc Load				Total Misc Load "X" (KVA)		23.16	189.6		Total NEC Demand Load in Amps		
Demand %				Kitchen Appliance Load "K" (KVA)		0.00					

PANEL NAME		CIRCUIT BREAKER REMARKS		PANEL CHARACTERISTICS				CIRCUIT BREAKER TYPE/ACCESSORY		OPTIONS	
H1A1		CC=CONTROLLED CIRCUIT, EX=EXISTING LOAD TO REMAIN, ML=MODIFIED LOAD ON EXISTING BREAKER, CL=CIRCUIT WIRED THROUGH CURRENT LIMITER		400	400	480 / 277	65K	A=AFICI, S=SHUNT TRIP, H=HACR, G=GFCL, L=CIB LOCK, HT=HANDLE TIE, NB=NEW CIRCUIT BREAKER	MOUNTING SURFACE	BUS MATERIAL COPPER	
Ckt No	Breaker (Remarks)	LOAD DESCRIPTION	Load Type	Load VA	Phasing (L1, L2, L3)	Load VA	Load Type	LOAD DESCRIPTION	Breaker (Remarks)	Ckt No	
1											
5	503 EX	RTU-1	H	11,839		39,567	PNL	PANEL P1B1 & P1A1 VIA 112.5KVA XFMR	EX 1753 2	2	
7											
9	603 EX	RTU-2	H	11,839		42,170	PNL		EX 1753 4	4	
11											
13											
15											
17											
19											
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
PANEL NOTES: EXISTING PANEL TO REMAIN. ITEMS IN BOLD HAVE BEEN UPDATED				78.92		79.69		Total Connected Load in KVA - Phase A			
Lighting Load				Total Track Lighting Load "D" (KVA)		0.00	81.52		Total Connected Load in KVA - Phase B		
Demand %				Total Receptacle Load "R" (KVA)		77.98	240.13		Total Connected Load in KVA - Phase C		
Show Window				Total Show Window Load "C" (KVA)		0.00	281.6		Total Connected Load in KVA - All Phases		
Length (FT)				Total Motor Load "M" (KVA)		0.00	209.67		Total Connected Load in Amps		
HVAC Load				Total Electric Heat Load "H" (KVA)		118.05	252.2		Total NEC Demand Load in KVA - All Phases		
Demand %				Total Misc Load "X" (KVA)		29.66			Total NEC Demand Load in Amps		
Misc Load				Kitchen Appliance Load "K" (KVA)		0.00					
Demand %											

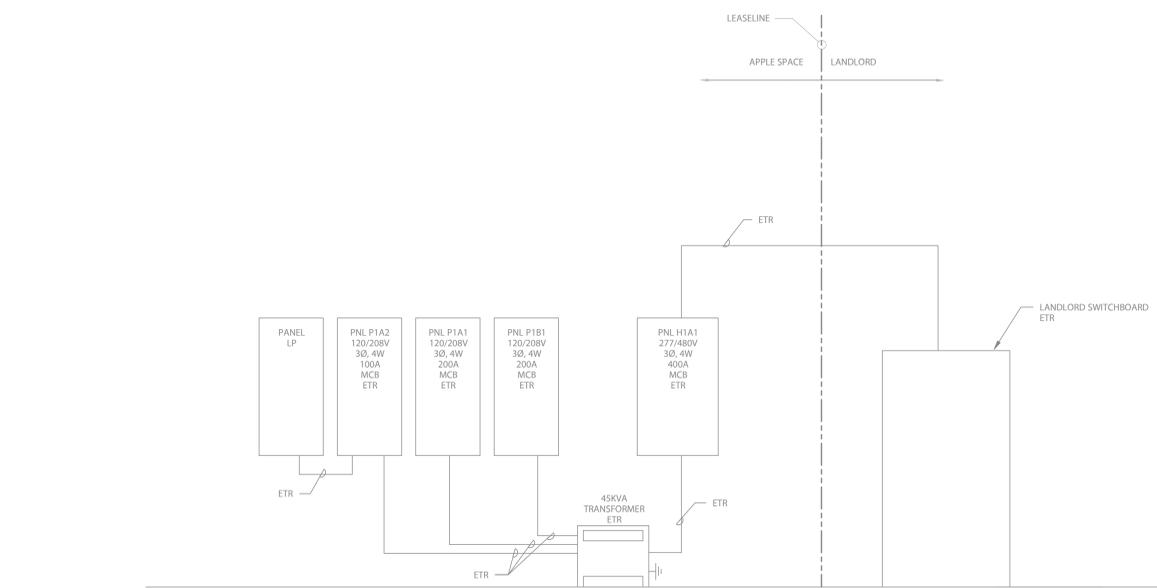
PANEL NAME		CIRCUIT BREAKER REMARKS		PANEL CHARACTERISTICS				CIRCUIT BREAKER TYPE/ACCESSORY		OPTIONS	
P1A2		CC=CONTROLLED CIRCUIT, EX=EXISTING LOAD TO REMAIN, ML=MODIFIED LOAD ON EXISTING BREAKER, CL=CIRCUIT WIRED THROUGH CURRENT LIMITER		225	100	208 / 120	10K	A=AFICI, S=SHUNT TRIP, H=HACR, G=GFCL, L=CIB LOCK, HT=HANDLE TIE, NB=NEW CIRCUIT BREAKER	MOUNTING SURFACE	BUS MATERIAL COPPER	
Ckt No	Breaker (Remarks)	LOAD DESCRIPTION	Load Type	Load VA	Phasing (L1, L2, L3)	Load VA	Load Type	LOAD DESCRIPTION	Breaker (Remarks)	Ckt No	
1	201 EX	LIGHTING PANEL MOD 1-1	L	1,900		1,260	L	LIGHTING PANEL MOD 1-2	EX 201 2	2	
3	201 EX	LIGHTING PANEL MOD 1-3	L	1,260		1,260	L	LIGHTING PANEL MOD 1-4	EX 201 4	4	
5	201 EX	LIGHTING PANEL MOD 2-1	L	1,731		1,731	L	LIGHTING PANEL MOD 2-2	EX 201 6	6	
7	201 EX	LIGHTING PANEL MOD 2-3	L	1,154		864	L	LIGHTING PANEL MOD 3-1	EX 201 8	8	
9	201 EX	LIGHTING PANEL MOD 3-2	L	864		140	L	LIGHTING PANEL MOD 3-3	EX 201 10	10	
11	201 ML	LIGHTING PANEL MOD 3(A)	L	1,698			X	SPARE	EX 201 12	12	
13	201 ML	LIGHTING PANEL MOD 3-4	L	228		236	L	LIGHTING PANEL MOD 4-3	EX 201 14	14	
15	201 EX	LIGHTING PANEL MOD 4-1	L	265		330	L	LIGHTING PANEL MOD 4-2	EX 201 16	16	
17	201 EX	SPARE	X				X	SPARE	EX 201 18	18	
19	201 EX	LIGHTING PANEL MOD 2-4	X	60			X	SPARE	EX 201 20	20	
21	201 EX	LIGHTING PANEL MOD 4-4	X	660			X	SPARE	EX 201 22	22	
23	201 EX	SPARE	X				X	SPARE	EX 201 24	24	
25	201 EX	SPARE	X				X	SPARE	EX 201 26	26	
27	201 EX	SPARE	X				X	SPARE	EX 201 28	28	
29	201 EX	SPARE	X				X	SPARE	EX 201 30	30	
31	EX	SPACE	X				X	SPARE	EX 201 32	32	
33	EX	SPACE	X				X	SPARE	EX 201 34	34	
35	EX	SPACE	X				X	SPARE	EX 201 36	36	
37	201 EX	EXIT LIGHTS	L	35			X	SPARE	EX 201 38	38	
39	201 EX	SPARE	X				X	SPARE	EX 201 40	40	
41	201 EX	SPARE	X				X	SPARE	EX 201 42	42	
PANEL NOTES: EXISTING PANEL TO REMAIN. ITEMS IN BOLD HAVE BEEN UPDATED				4.84		5.07		NO SUBFEED LOAD		SUBFEED LUGS	
Lighting Load				Total Lighting Load "L" (KVA)		14.12	4.84		Total Connected Load in KVA - Phase A		
Demand %				Total Track Lighting Load "D" (KVA)		0.00	4.93		Total Connected Load in KVA - Phase B		
Show Window				Total Receptacle Load "R" (KVA)		0.00	5.07		Total Connected Load in KVA - Phase C		
Length (FT)				Total Show Window Load "C" (KVA)		0.00	14.84		Total Connected Load in KVA - All Phases		
HVAC Load				Total Motor Load "M" (KVA)		0.00	41.2		Total Connected Load in Amps		
Demand %				Total Electric Heat Load "H" (KVA)		0.00	18.37		Total NEC Demand Load in KVA - All Phases		
Misc Load				Total Misc Load "X" (KVA)		0.72	51.0		Total NEC Demand Load in Amps		
Demand %				Kitchen Appliance Load "K" (KVA)		0.00					

PANEL NAME		CIRCUIT BREAKER REMARKS		PANEL CHARACTERISTICS				CIRCUIT BREAKER TYPE/ACCESSORY		OPTIONS	
P1B1		CC=CONTROLLED CIRCUIT, EX=EXISTING LOAD TO REMAIN, ML=MODIFIED LOAD ON EXISTING BREAKER, CL=CIRCUIT WIRED THROUGH CURRENT LIMITER		225	200	208 / 120	10K	A=AFICI, S=SHUNT TRIP, H=HACR, G=GFCL, L=CIB LOCK, HT=HANDLE TIE, NB=NEW CIRCUIT BREAKER	MOUNTING SURFACE	BUS MATERIAL COPPER	
Ckt No	Breaker (Remarks)	LOAD DESCRIPTION	Load Type	Load VA	Phasing (L1, L2, L3)	Load VA	Load Type	LOAD DESCRIPTION	Breaker (Remarks)	Ckt No	
1	301 EX	UPS-NETWORK RACK	R	2,700		2,700	R	UPS-AV RACK	EX 301 2	2	
3	301 EX	UPS-NETWORK RACK	R	2,700		2,700	R	UPS-AV RACK	EX 301 4	4	
5	301 EX	UPS-NETWORK RACK	R	2,700		2,700	R	UPS-AV RACK	EX 301 6	6	
7	151 EX	DSI BOARD	X	600		360	R	JANITOR ROOM RECEIPT	ML 201 8	8	
9	201 EX	CAMERA POWER SUPPLY	X	500		1,500	R	COUNTERTOP RECEIPT	EX 201 10	10	
11	201 EX	MONR RECEIPT	R	180		600	R	REFRIGERATOR	EX 201 12	12	
13	201 EX	GENIUS RM WIREMOLD	R	960		800	R	REFRIGERATOR	EX 201 14	14	
15	201 EX	GENIUS RM WIREMOLD	R	1,920		2,000	X	ELECTRIC WATER HEATER	NB 201 16	16	
17	201 EX	GENIUS RM WIREMOLD	R	1,920		2,000	X	GENIUS RM RECEIPT	EX 201 18	18	
19	201 EX	GENIUS RM WIREMOLD	R	1,920		1,260	R	EXHAUST FAN	EX 201 20	20	
21	201 EX	GENIUS RM DATA TRANSFER	R	1,440		323	M	VAR VOLUME ZONE DAMPER	EX 201 22	22	
23	201 EX	MONR OFFICE WIREMOLD	R	1,440		400	X	MICROWAVE	EX 201 24	24	
25	201 EX	BUSINESS WIREMOLD	R	1,920		1,200	R	BREAK AREA WIREMOLD	EX 201 26	26	
27	201 EX	BUSINESS RECEPTACLE	R	180		1,440	R	BREAK AREA WIREMOLD	EX 201 28	28	
29	201 EX	FLEX WIREMOLD	R	1,920		960	R	BREAK AREA WIREMOLD	EX 201 30	30	
31	201 EX	ROOF TOP RECEIPT	R	540		960	R	RECEIVING AREA WIREMOLD	EX 201 32	32	
33	201 EX	DETEX SYSTEM	R	400		1,800	R	TECHNOLOGY WIREMOLD	EX 201 34	34	
35	201 EX	MICROWAVE	R	1,200		1,800	R	TECHNOLOGY WIREMOLD	EX 201 36	36	
37	201 EX	ALARM PANEL	X	600		900	R	TECHNOLOGY WIREMOLD	EX 201 38	38	
39	201 EX	COUNTERTOP RECEIPT	R	1,500			X	SPARE	EX 201 40	40	
41	201 EX	SPARE	X			400	X	DOORBELL SYSTEM	EX 201 42	42	
PANEL NOTES: EXISTING PANEL TO REMAIN. ITEMS IN BOLD HAVE BEEN UPDATED				17.42		18.40		Total Connected Load in KVA - Phase A			
Lighting Load				Total Track Lighting Load "D" (KVA)		0.00	18.42		Total Connected Load in KVA - Phase B		
Demand %				Total Receptacle Load "R" (KVA)		47.42	54.24		Total Connected Load in KVA - Phase C		
Show Window				Total Show Window Load "C" (KVA)		0.00	150.6		Total Connected Load in KVA - All Phases		
Length (FT)				Total Motor Load "M" (KVA)		0.32	35.53		Total Connected Load in Amps		
HVAC Load				Total Electric Heat Load "H" (KVA)		0.00	98.6		Total NEC Demand Load in KVA - All Phases		
Demand %				Total Misc Load "X" (KVA)		6.50			Total NEC Demand Load in Amps		
Misc Load				Kitchen Appliance Load "K" (KVA)		0.00					
Demand %											

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1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

- ### SHEET NOTES
- ALL ELECTRICAL SYSTEMS MUST BE FIELD VERIFIED PRIOR TO BIDDING, SO THAT THE PROPER ELECTRICAL EQUIPMENT IS ADDED TO THE STORE PER THE ELECTRICAL REQUIREMENTS.
 - ELECTRICAL CONTRACTOR SHALL THOROUGHLY INSPECT AND TEST ALL EXISTING EQUIPMENT THAT WILL BE REUSED. REPORT TO THE GENERAL CONTRACTOR ANY REQUIRED MAINTENANCE OR REPAIR ITEMS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS TO THE LANDLORD POINT OF SERVICE WITH THE GENERAL CONTRACTOR. IN ADDITION, THE CONTRACTOR SHALL COORDINATE ALL INCOMING SERVICES WITH THE RESPECTIVE OWNERS UTILITIES CONSULTANT AND DIRECTOR OF MALL CONSTRUCTION AND OPERATIONS.
 - ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRICAL SERVICE. ANY NECESSARY MODIFICATIONS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
 - ELECTRICAL PANELBOARDS MAY BE RECESSED OR SURFACE MOUNTED. WHERE RECESSED PANELS ARE INSTALLED, THE ELECTRICAL CONTRACTOR MUST MAINTAIN THE INTENDED FIRE RATING OF THE WALL. MOUNTING HEIGHTS FOR PANELBOARDS SHALL BE PER CODE.
 - ALL EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE REVIEWED FOR CAPACITIES MEETING OR EXCEEDING THE OWNERS REQUIREMENTS. THIS INCLUDES CONFIRMING AVAILABLE TRANSFORMER KVA CAPACITY, AMPERAGE OF ALL PANELS, 30/4W PANELS, AND APPROPRIATE VOLTAGES.

Apple Store
West Town Mall
Nanuet, NY

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90% CD SET 12/3/2021

ELECTRICAL RISER
DIAGRAM

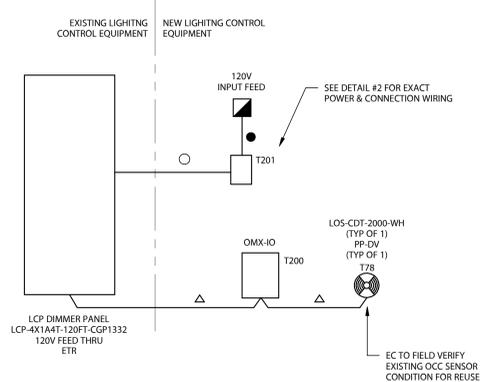


ROOM NAME	EQUIPMENT INDICATOR		LOAD TYPE	CONTROLLER	AUTOMATIC CONTROLS		MANUAL CONTROLS	
	OWNER PRODUCT CODE	IDENTIFIER			OCC SENSOR (OCCUPIED)	OCC SENSOR (UNOCCUPIED)	WALL SWITCH ON	WALL SWITCH OFF
JANITORS CLOSET	LF.GL.10	-	LED	WS	100%	OFF	100%	OFF
RESTROOMS	LF.LF.12/AF.GL.13	-	LED	WS	100%	OFF	100%	OFF

WS: WALL SENSOR
 TS: TOGGLE SWITCH
 IS: INTEGRATED SENSOR

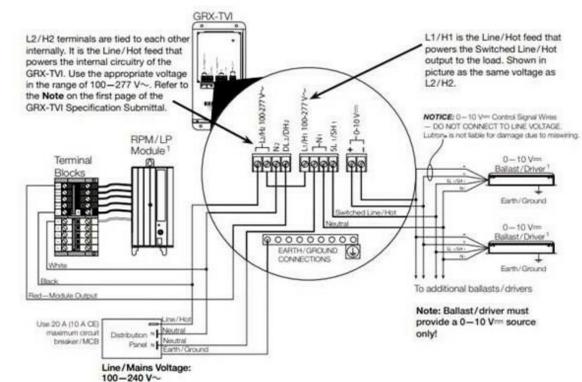
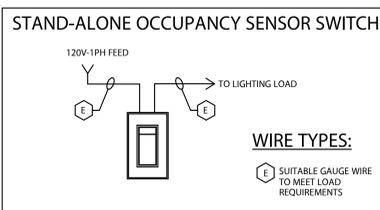
NOTES:
 1. STAND-ALONE ROOMS ARE NOT CONNECTED OR CONTROLLED BY THE LIGHTING CONTROL SYSTEM.

SWITCHING/DIMMING LOAD SCHEDULE										Panel Model Number: LCP-4X1A4T-120FT-CGP-1332				PANEL ID #1			
INPUT: NA										VOLTAGE: 120V-FEED THROUGH				1PH-2W (x17)			
Room/Area Name	Circuit Number	Lutron Zone	Load Description	No. of Fixt.	Load Type	Fixt Load	Phase L1 (W)	Phase L2 (W)	Phase L3 (W)	Module Load (W)	Maximum Load (W)	Module Type					
Front of Store	1	3	Apple Logo	1	D-LED	1000	1000				1920						
Sales Area Ceiling	2	3	Tag L5	12	D-LED	105	1260				1920	1(X)					
Sales Area Ceiling	3	3	Tag L5	12	D-LED	105		1260			1920						
Sales Area Ceiling	4	2	Tag L5	12	D-LED	105					1920						
Right Side Graphic Bays	5	2	Graphic Panel	3	D-LED	577				1731	1920						
Left Side Graphic Bays	6	2	Graphic Panel	3	D-LED	577				1731	1920	2(X)					
Graphic Bays Back of the Store	7	2	Graphic Panel	2	D-LED	577	1154				1920						
Back Door	8	1	Exterior Light	1	FND	60	60				1920						
Sales area Trough Ceiling	9		Tag L9	36	MH	24	864				1920						
Right, Left & Back Side Soffit Bays	10		Tag L9s	41	MH	24		984			1920						
Spare	11		Spare							2216	1920	3(X)					
Spare	12		Spare								1920						
Manager Office/Business Oper.	13	8	Tag L14	5	FND	59		295			1920						
Break Room	14	9	Tag L11	11	FND	30		330			1920						
Genius Room	15	9	Tag L14	4	FND	59	236			1521	1920	4(X)					
Stock Rm/Flex/Rec	16		Tag L11	22	FND	30		660			1920						
Front Display First Row Tracks	17	6	Tag L1	10	ELV	75				750	1200/Line						
Front Display Second Row Tracks	18	7	Tag L1	10	ELV	75				750	1920 Tot	5(A)					
Corridor	19		Tag LF.GL.06	6	0-10V	18				1608							
Spare	20		Spare														



WIRING LEGEND

- △ OS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
- OS CONTROL LINK (SEE WIRE DESCRIPTION BELOW) CONNECT WIRES 1,3 AND 4. DO NOT CONNECT WIRE #2
- OS WIRING AS REQUIRED BY CONTROL LINK LENGTH (REFER TO OS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHAVE WIRING NOTES)
- INPUT POWER (NORMAL-EMERGENCY)
- 2#12AWG (2.5 mm²)
- 3#12AWG (2.5 mm²)



1 LIGHTING CONTROL LINE DRAWING

12" = 1'-0"

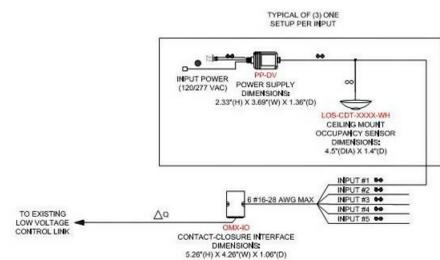
3 TYPICAL TVI TO 0-10V WIRING DIAGRAM

WIRING LEGEND:

- △ OS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
- OS CONTROL LINK (SEE WIRE DESCRIPTION BELOW) CONNECT WIRES 1,3 AND 4. DO NOT CONNECT WIRE #2
- OS WIRING AS REQUIRED BY CONTROL LINK LENGTH (REFER TO OS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHAVE WIRING NOTES)

TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (153 m)	POWER (TERMINALS 1,3,4) 1 PAIR 18 AWG (1.0 mm ²) DATA (TERMINALS 2,5) 1 PAIR 22 AWG (0.33 mm ²), TWISTED AND BARE/SHIELDED	GRX-CBL-3465 OR GRX-PCBL-3465
500ft (153 m) TO 2,000ft (609 m)	POWER (TERMINALS 1,3,4) 1 PAIR 12 AWG (3.3 mm ²) DATA (TERMINALS 2,5) 1 PAIR 22 AWG (0.33 mm ²), TWISTED AND BARE/SHIELDED	GRX-CBL-4465 OR GRX-PCBL-4465

- *ALL TERMINATE DATA ONLY CABLES USE APPROVED DATA LINK CABLE (22 AWG (0.5 mm²)) TWISTED/SHIELDED FROM BELDEN MODEL #84871
- **TOTAL LENGTH OF THE OS LINK MUST NOT EXCEED 2,000 ft (609 m).
- INPUT POWER (NORMAL)
- 2 #12AWG (4 mm²)
- 2 #16AWG (1.0 mm²)
- 3 #16AWG (1.0 mm²)



2 OCCUPANCY SENSOR TO IO FOR ZONE CONTROL DETAIL

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LIGHTING CONTROL
 PROGRAMMING