Party City

3850 GRAND AVE CHINO, CA 91710

PROJECT CODE INFORMATION

THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING CODES:

2016 CALIFORNIA BUILDING CODE
2016 CALIFORNIA EXISTING BUILDING CODE
2016 CALIFORNIA MECHANICAL CODE
2016 CALIFORNIA PLUMBING CODE
2016 CALIFORNIA ELECTRICAL CODE
2016 CALIFORNIA TITLE 24 ENERGY STANDARDS
2016 CALIFORNIA TITLE 24 ACCESSIBILITY
2016 CALIFORNIA FIRE CODE
2016 CALIFORNIA GREEN BUILDING STANDARDS
2010 AMERICANS WITH DISABILITIES ACT (ADA)
NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS
O.S.H.A.

EXISTING BUILDING INFO

AREA	TYPE	NOTES	SECTION
EXISTING / RENOVATION	ALTERATION LEVEL 3	CONVERT EXISTING "VACANT TENANT SPACE (M)" TO "PARTY CITY (M)"	

OCCUPANCY CLASS

OCCUPANCY	CLASS	NOTES	SECTION
MERCANTILE	M	RETAIL STORE	2016 CBC SECTION 309

OCCUPANCY SEPARATION

OCCUPANCY	ADJCAENT OCCCUPANCY	REQUIRED SEPARATION	SECTION
MERCANTILE (M)	BATH AND BODY WORKS (M) CELEX FURNITURE GALLERY (M)	NO SEPARATION REQUIRED BETWEEN MERCANTILE SPACES	2016 CBC TABLE 508.4

SQUARE FOOTAGE

AREA	OCC.	SQ. FT.	% OF AREA	NOTES	SECTION
UNALTERED	M	00,000	0%	EXISTING SPACE	2016 CBC CHAPTER 5
RENOVATED	M	20,091	100%		
NEW	M	00,000	0%		
TOTAL		**20,091**	**100%**		

CONSTRUCTION TYPE

ELEMENT	TYPE	RATING	NOTES	SECTION
STRUCTURAL FRAME	IIIB	0	EXISTING UNALTERED	2016 CBC TABLE 601
ROOF CONSTRUCTION		0	EXISTING UNALTERED	
BEARING WALLS (INT)		0	NONE	
NON-BEARING WALLS (EXT)		0	EXISTING UNALTERED	
NON-BEARING WALLS (INT)		0	NEW METAL STUD	
FLOOR CONSTRUCTION		0	EXISTING UNALTERED	
BEARING WALLS (EXT)		2	EXISTING UNALTERED	

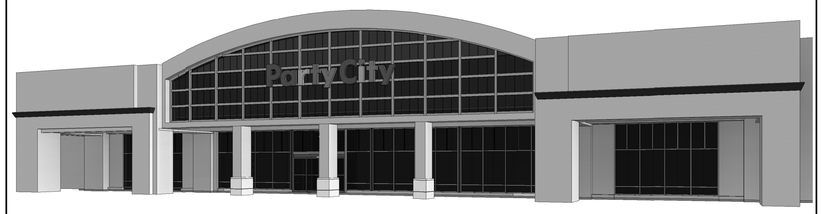
FIRE PROTECTION SYSTEMS

ELEMENT	REQUIRED	PROVIDED	NOTES	SECTION
SPRINKLER SYSTEM	YES	YES		2016 CBC 903
PORT. FIRE EXTINGUISHERS	YES	YES		2016 CBC 906
FIRE ALARM & DETECTION	NO	YES		2016 CBC 907

PLUMBING FIXTURES

OCCUPANTS	MALE	FEMALE	50% OF FIXTURES TO BE MALE / FEMALE				
224	112	112	REQUIRED		PROVIDED		SECTION
FIXTURE	REQUIRED		MALE	FEMALE	MALE	FEMALE	2016 CBC TABLE 2902.1
WATER CLOSETS	1 PER 500		1	1	1	1	
LAVATORIES	1 PER 750		1	1	1	1	
BATHTUBS / SHOWERS	NONE		0		0		
DRINKING FOUNTAINS	1 PER 1000		1		2 (HIGH & LOW HC)		
SERVICE SINK	1		1		1		

CONCEPTUAL RENDERING



SCOPE OF WORK

GENERAL

TENANT FIT-OUT OF EXISTING MERCANTILE SPACE INCLUDING SPACE RECONFIGRUATION, INSTALLATION OF DISPLAY FIXTURES, AND STORAGE RACKS. NO CHANGE IN OCCUPANCY.

CIVIL / SITE

NONE.

ARCHITECTURAL

INSTALLATION OF NEW INTERIOR PARTITIONS FOR VESTIBULE, OFFICE, BREAK ROOM, FITTING ROOMS, AND EGRESS HALLWAY,

STRUCTURAL

NONE.

MECHANICAL

MAINTENANCE ON EXISTING (6) RTU'S. EXISTING DUCTWORK TO REMAIN WITH MINOR MODIFICATIONS PER SPACE RECONFIGURATION.

ELECTRICAL

EXISTING PANELS AND SERVICE TO REMAIN. INSTALL NEW LIGHTS, EXIT SIGNS, & NEW POWER RECEPTACLES AS NOTED.

PLUMBING

INSTALL NEW WATER HEATER, AND MOP SINK. MINOR MODIFICATIONS TO EXISTING RESTROOMS.

SPRINKLER

DEFERRED SHOP DRAWINGS BY CONTRACTOR.

FIRE ALARM

DEFERRED SHOP DRAWINGS BY CONTRACTOR.

SHOP DRAWINGS & SUBMITTALS:

1. G.C. TO SUBMIT SHOP DRAWINGS TO ARCHITECT/ENGINEER OF RECORD (COPY TENANT REPRESENTATIVE) FOR APPROVAL PRIOR TO CONSTRUCTION. SEE SHEET A1.0 FOR FURTHER DIRECTION.

DEFERRED SUBMITTALS

- FIRE SPRINKLER SYSTEM
- EXTERIOR SIGNAGE
- FIRE ALARM

PROJECT DIRECTORY

CLIENT ADDRESS

PARTY CITY
GREEN POND ROAD
ROCKAWAY, NJ 07866

LANDLORD

SHIN YEN MANAGEMENT, INC.
CONTACT: YALE HUANG

3808 GRAND AVE., SUITE B
CHINO, CA 91710
TEL: 909.902.5365
EXT: 106

ARCHITECT

LARSON DESIGN GROUP
ENGINEER: SEREE YENGAI, PE

CONTACT PROJECT MANAGER: BRENT DRESSLER

1000 COMMERCE DRIVE
SUITE 201
WILLIAMSPORT, PA 17701
TEL: 570.323.6603
EXT: 218
FAX: 570.323.9902

ELECTRICAL ENGINEER

PETER A. LEPTUCH ENGINEERING & CONSULTING SERVICE
ENGINEER: PETER A. LEPTUCH, PE

CONTACT PROJECT MANAGER: BRENT DRESSLER

1000 COMMERCE PARK DRIVE
SUITE 201
WILLIAMSPORT, PA 17701
TEL: 570.323.6603
EXT: 218
FAX: 570.323.9902

MECHANICAL ENGINEER

LARSON DESIGN GROUP
CONTACT: MATTHEW NEALIS PE

1000 COMMERCE PARK DRIVE
SUITE 201
WILLIAMSPORT, PA 17701
TEL: 570.323.6603
FAX: 570.323.9902

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION	REV# - XX/XX	REV# - XX/XX	REV# - XX/XX	REV# - XX/XX
COVER					
G1.0	COVER SHEET				
G1.1	EGRESS PLAN				
G1.2	ACCESSIBILITY STANDARDS				
G2.0	CONTRACTOR INFORMATION				
G3.0	SYMBOLS & ABBREVIATIONS				
G4.0	SPECIFICATION / GENERAL NOTES				
G5.0	SITE PLAN				
G6.0	TITLE 24				
G6.1	TITLE 24				
G6.2	TITLE 24				
G6.3	TITLE 24				
DEMOLITION					
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A3.1	ENLARGED OFFICE PLAN				
A4.0	REFLECTED CEILING PLAN				
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A7.5	FIXTURE DETAILS				
A7.6	3D FIXTURE PLAN				
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M0.1	MECHANICAL SPECIFICATIONS				
MD1.0	MECHANICAL DEMOLITION PLAN				
M1.0	MECHANICAL PLAN				
M1.1	MECH. SEISMIC DTLS.				
PLUMBING					
P0.1	PLUMBING SPECIFICATIONS				
P1.0	PLUMBING PLAN				
P2.0	HELIUM SYSTEM				
P2.1	HELIUM PLANS/ ELEVATIONS				
ELECTRICAL					
E0.1	ELECTRICAL SPECIFICATIONS				
E1.0	POWER PLAN				
E1.1	ENLARGED DETAILS				
E1.2	ENLARGED DETAILS				
E1.3	INSRIBE KIOSK DETAILS				
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E2.1	LIGHTING CONTROL PANEL				
E3.0	ELECTRICAL DETAILS & DIAGRAM				
E3.1	PANEL SCHEDULES				
FIRE PROTECTION					
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FP1.1	FIRE SPRINKLER PLAN				
FP1.2	FIRE SPRINKLER NOTES AND DETAILS				
FP1.3	FIRE SPRINKLER SPECIFICATIONS				
FIRE ALARM					
FAD1.1	FIRE ALARM PLAN- DEMOLITION WORK				
FA1.1	FIRE ALARM PLAN - NEW WORK				
FA1.2	FIRE ALARM NOTES AND SITE PLAN				
FA1.3	FIRE ALARM MATRIX, PROGRAMMING, CALCULATIONS & DETAILS				
FA1.4	FIRE ALARM SPECIFICATIONS				

FIRE DEPARTMENT NOTES

1. 2016 CFC CHAPTER 14 - "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION," THE CONTRACTOR MUST ADHERE TO DURING CONSTRUCTION
2. MUST KEEP THE APPROVED FIRE DEPARTMENT PLANS ON THE JOB SITE AT ALL TIMES, WITHOUT APPROVED SET OF PLANS WILL RESULT IN NO FIRE INSPECTION.
3. THE INSPECTOR MAY REQUIRE ADDITIONAL EXIT SIGNS AND FIRE EXTINGUISHERS AT THE TIME OF FINAL INSPECTION.
4. THE ADDRESS NUMBER REQUIREMENTS; NUMBERS MUST BE 12 INCHES TALL AND **AUTOMATICALLY ILLUMINATED** AND FACING THE STREET. (FRONT AND REAR)
5. A "HIGH PILE STOCK (HPS)" REVIEW **WAS NOT** A PART OF THIS APPROVAL, HOWEVER, IT MAY BE REQUIRED BY LOCAL AHJ. ARCHITECT/ ENGINEER OF RECORD TO VERIFY.
6. THE FIRE PREVENTION BUREAU MUST INSPECT THE BUILDING FOR FINAL AND GRANT ACCEPTANCE BEFORE THE BUILDING DEPARTMENT IS SUMMONED FOR THEIR FINAL INSPECTION. PLEASE CALL FIRE PREVENTION BUREAU FOR INSPECTIONS.
7. THE PERSON REQUESTING AN INSPECTION IS RESPONSIBLE FOR MEETING THE INSPECTOR ON TIME, PROVIDING ACCESS TO THE AREA REQUIRING INSPECTION AND PROVIDING AN APPROVED SET OF PLANS AND SUPPORTING DOCUMENTS.
8. ALL EXTERIOR DOORS MUST BE ACCESSIBLE FOR EMERGENCY ACCESS FOR THE FIRE DEPARTMENT. CFC CHAPTER 5 SECTION 504.1
9. LABEL ALL "FIRE ALARM CONTROL PANELS" AND "ELECTRICAL ROOM" WITH 6 INCH LETTERS. CFC 2016 CHAPTER 5 SECTION 510
10. KNOX LOCKING FIRE DEPARTMENT CONNECTION CAPS. LOCKING CAPS TO PREVENT FIRE DEPARTMENT CONNECTION (FDC) THEFT ARE REQUIRED ON ALL FDC FOR WATER-BASED FIRE PROTECTION SYSTEMS. CONTACT THE FIRE DEPARTMENT FOR SPECIFICATIONS AND APPLICATION. CFC 2016 CHAPTER 9 SECTION 912.3.1
11. FIRE DEPARTMENT CONNECTION SIGNAGE. A METAL SIGN WITH RAISED LETTERS AT LEAST 1 INCH IN SIZE (ADDRESS ONLY) SHALL BE MOUNTED ON ALL FIRE DEPARTMENT CONNECTIONS SERVING THE AUTOMATIC SPRINKLER SYSTEM. CFC 2016 CHAPTER 9 SECTION 912.4
12. FDC ACCESS. IMMEDIATE ACCESS TO FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED AT ALL TIMES AND WITHOUT OBSTRUCTION BY FENCES, BUSHES, TREES, WALLS, OR ANY OTHER OBJECTS FOR MINIMUM OF 3 FEET. CFC 2016 CHAPTER 9 SECTION 912.3

SPRINKLER NOTE:

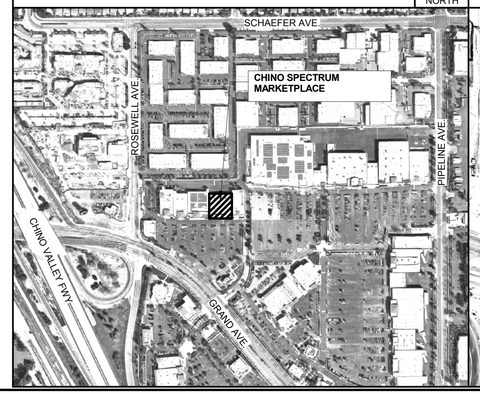
CONTRACTOR TO VERIFY IF EXISTING BUILDING HAS A SPRINKLER SYSTEM. IF A NEW SYSTEM OR MODIFICATIONS TO THE SPRINKLER SYSTEM ARE REQUIRED CONTRACTOR TO RETAIN AND PAY FOR A PROFESSIONAL OF RECORD FOR ALL FIRE SUPPRESSION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS, DESIGN, LAYOUT, DETAILS, DRAWINGS, MATERIALS, LABOR AND ALL REQUIREMENTS TO MEET GOVERNING AUTHORITIES, CODES, REGULATIONS, LANDLORD AND UNDERWRITER REQUIREMENTS FOR ALL WORK.

2016 CGBSC

A. CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING "CITY" FORM, TO BE COMPLETED BEFORE PERMIT ISSUANCE BY THE PROJECT CONTRACTOR (OR PERMIT APPLICANT). FORM CAN BE OBTAINED AT CITY BUILDING DEPARTMENT (CGBSC 5.408)
B. COVER DUCT OPENINGS AND PROTECT MECHANICAL EQUIPMENT DURING CONSTRUCTION (CGBSC 5.504)

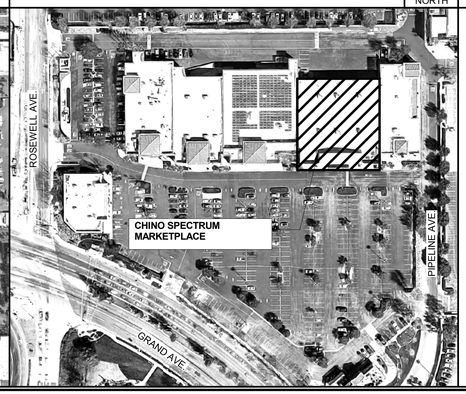
VICINITY MAP

PLAN NORTH



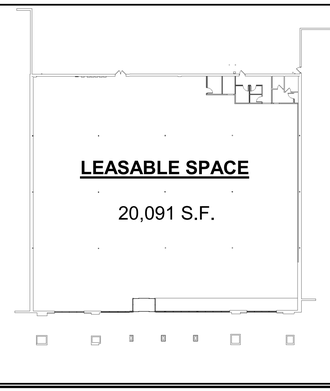
MALL KEY PLAN

PLAN NORTH



KEY PLAN

PLAN NORTH



LEASABLE SPACE

20,091 S.F.

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

Party City
STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE.
CHINO, CA 91710

LDG
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Architects Engineers Surveyors

PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
COVER SHEET
SHEET NO.
G1.0

OCCUPANT LOAD

NAME	AREA	OCCUPANCY	SF PERSON	PERSONS
ASSEMBLY				
BREAK ROOM	69 SF	ASSEMBLY	15	5
BUSINESS				
CHECKOUT	732 SF	BUSINESS	100	8
OFFICE	80 SF	BUSINESS	100	1
MERCHANTILE				
SALES AREA	11251 SF	MERCHANTILE	60	188
STORAGE				
STOCKROOM	6593 SF	STORAGE	300	22
UNOCCUPIED				
RESTROOM 1	66 SF	UNOCCUPIED	0	
RESTROOM 2	66 SF	UNOCCUPIED	0	
HALLWAY	78 SF	UNOCCUPIED	0	
JAN	14 SF	UNOCCUPIED	0	
HALLWAY	150 SF	UNOCCUPIED	0	
VESTIBULE	84 SF	UNOCCUPIED	0	
FITTING	73 SF	UNOCCUPIED	0	
FITTING	26 SF	UNOCCUPIED	0	
FITTING	26 SF	UNOCCUPIED	0	
TOTALS	19307 SF	(NET SQUARE FOOTAGE)		224

OCCUPANCY IBC TABLE 1004.1.1

OCCUPANCY S.F. TYPE	S.F.PER PERSON	S.F UNIT
ASSEMBLY	15	Net
BUSINESS	100	Gross
MECHANICAL	300	Gross
MERCANTILE	60	Gross
STORAGE	300	Gross
UNOCCUPIED	0	

EGRESS PATHS

EXIT PATH	EXIT PATH DISTANCE
'A'	TOTAL PATH LENGTH - 168'-6"
'B'	TOTAL PATH LENGTH - 121'-2"
'C'	TOTAL PATH LENGTH - 93'-10"
'D'	TOTAL PATH LENGTH - 193'-2"
'E'	TOTAL PATH LENGTH - 219'-8"

KEYED NOTES [X]

1	G.C. TO FURNISH & INSTALL NEW FIRE EXTINGUISHERS AS REQ'D BY LOCAL CODES. WHEN MOUNTING ADJACENT TO DOOR OPENING, MAINTAIN 12" CLEAR TO DOOR OPENING FOR ADA COMPLIANCE. FINAL LOCATION, MOUNTING HEIGHT, & QUANTITY BY FIRE INSPECTOR. G.C. TO VERIFY FIRE MARSHALL REQUIREMENTS FOR INSPECTION & TAGGING.
2	TACTILE "EXIT" SIGN. SEE DETAIL 2/G1.2
3	TACTILE "EXIT ROUTE" SIGN. SEE DETAIL 2/G1.2
4	TACTILE ADA ACCESSIBILITY "ENTRY" SIGN. SEE DETAIL 2/G1.2

MEANS OF EGRESS

ELEMENT	REQUIRED	NOTES	PROVIDED
DOORS	0.20" PER OCCUPANT FOR EACH MEANS OF EGRESS REQUIRED 44.8"	36" MINIMUM (SPRINKLERED) 44" MIN AT STOCKROOM AISLE	233"
TRAVEL DISTANCE	250 FT MAX	(SPRINKLERED)	219'-8"
TOTAL EXITS	2 EXITS	51-499 OCCUPANTS = 2 EXITS	3 EXITS
EXIT ACCESS	INTERVENING SPACES	EGRESS MAY PASS THROUGH RECEIVING AREAS AND STOCKROOMS IN M OCCUPANCIES (VERIFY W/ LOCAL CODE)	

EGRESS PLAN LEGEND

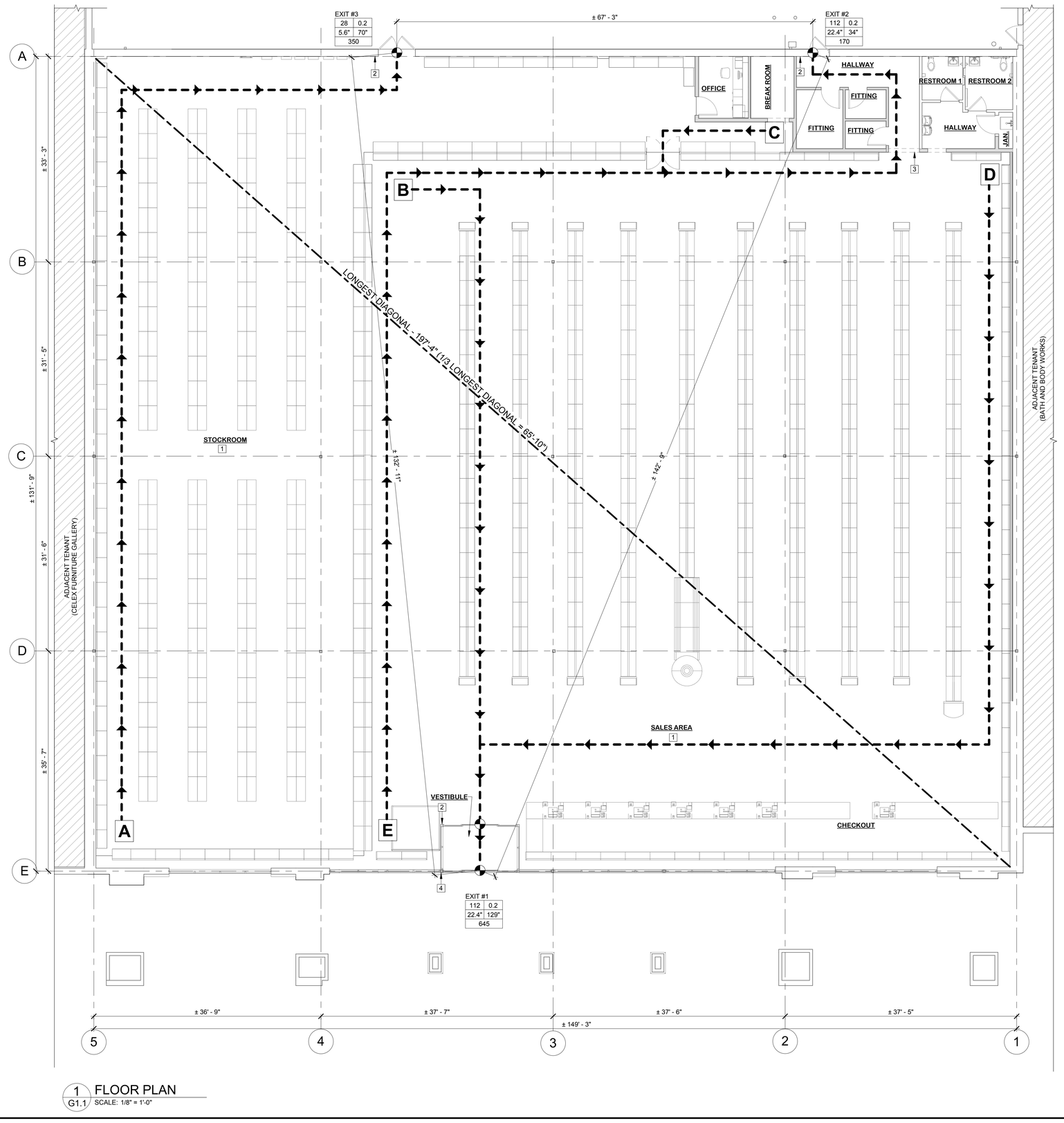
OCCUPANT LOAD ATTRIBUTED TO EXIT — 50 | 0.2 — WIDTH PER OCCUPANT LOAD FACTOR (1005.1)

REQUIRED OPENING WIDTH — 10" | 34" — PROVIDED CLEAR OPENING WIDTH

OPENING CAPACITY — 170

TRAVEL ROUTE FROM SPACE TO EXIT

EXIT DOOR WITH PANIC HARDWARE & TACTILE SIGNAGE



1 G1.1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
CHINO SPECTRUM MARKETPLACE
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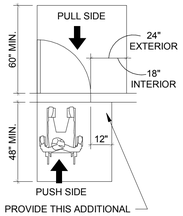
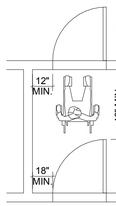
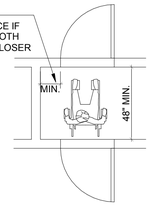


PROVIDE THIS ADDITIONAL SPACE IF THE DOOR HAS BOTH A LATCH AND A CLOSER

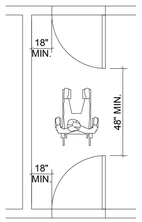
FRONT APPROACH



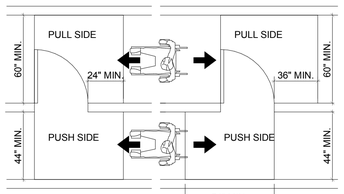
TWO HINGED DOORS IN SERIES



TWO HINGED DOORS IN SERIES



DOORS AT OPPOSITE WALLS

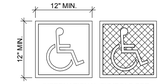


* 48" MIN. IF DOOR HAS BOTH A LATCH AND A CLOSER

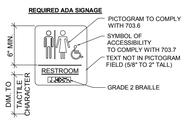
LATCH APPROACH

HINGE APPROACH

1 REQUIRED DOOR CLEARANCES
G1.2 SCALE: 1/4" = 1'-0"



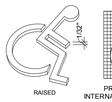
INTERNATIONAL SYMBOLS FOR ACCESSIBILITY



GENERAL RESTROOM SIGNAGE

INTERNATIONAL TDD SYMBOL

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING IMPAIRED



RAISED

PROPORTIONS FOR INTERNATIONAL SYMBOLS FOR ACCESSIBILITY

2 TACTILE SIGNAGE & SYMBOLS
G1.2 SCALE:NTS

LETTERS AND NUMBERS:

1. LETTERS AND NUMERALS SHALL BE RAISED 1/32" (0.8 MM) MINIMUM, UPPERCASE, SANS-SERIF OR SIMPLE SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (16 MM) HEIGHT, BUT NO HIGHER THAN 2" (50 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSIONS OF THE PICTOGRAM SHALL BE 6" (152 MM) MINIMUM IN HEIGHT. (2016 CBC 11B-703.2)
4. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO FOR WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN. AND 110% MAX. OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF 15% MAX. HEIGHT OF CHARACTER (2016 CBC 11B-703.2)
5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. WITH A HORIZONTAL FORMAT PER 2016 CBC 11B-703.5
6. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. (2016 CBC TABLE 11B-703.5.5)
7. BRAILLE SHALL BE CONTRACTED (GRADE 2) BRAILLE AND SHALL COMPLY WITH 2016 CBC 11B-703.3 AND 11B-703.4
8. BRAILLE SHALL BE BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTILINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" (9.5 MM) MIN. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" (9.5 MM) MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS. BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16" (4.8 MM) MIN. EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. (2016 CBC 11B-703.3.2)

SIGN LOCATIONS:

9. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (ICC/IBC SEC. 1110)
10. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACE ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 48" (1219 MM) ABOVE THE FINISH FLOOR TO THE BASELINE OF THE LOWEST BRAILLE CELLS. AND 60" (1524 MM) MAX. ABOVE THE FINISH FLOOR MEASURED TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. SIGNS SHALL HAVE A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN. (2016 CBC 11B-703.4)
11. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED. (ICC/IBC SEC. 1110)
12. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

13. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
14. WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595C.
15. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

BRAILLE: (2016 CBC TABLE 11B-703.3.1)

16. 0.1" (1.5 MM) ON CENTER IN EACH CELL.
17. 0.3" (7.6 MM) SPACE BETWEEN CELLS HORIZONTALLY.
18. 0.395" (10.0 MM) TO 0.4" (10.2 MM) SPACE BETWEEN CELLS HORIZONTALLY.
19. DOTS RAISED 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE BACKGROUND.
20. DOTS BASE DIAMETER TO BE 0.059" (1.5 MM) TO 0.063" (1.6 MM).

MOUNTED SIGNAGE:

A. DOOR MOUNTED SIGNAGE:

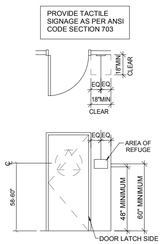
1. (UNISEX) -12" DIAMETER CIRCLE 1/4" THICK WITH 1/4" THICK TRIANGLE SUPERIMPOSED WITHIN CIRCLE.
2. THE CHARACTERS AND BACKGROUND OF THE SIGN IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND THE COLOR AND THE CONTRAST OF THE SIGN DISTINCTIVELY CONTRASTS WITH THE COLOR AND CONTRAST OF THE DOOR.
3. SIGNS ARE CENTERED ON THE DOOR 60" FROM THE FLOOR.

B. WALL MOUNTED SIGNS

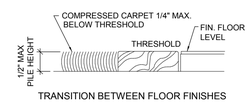
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IS INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. THE BORDER DIMENSION SHALL BE A MINIMUM OF 6" IN HEIGHT. NOTE: IF NO WALL SPACE IS AVAILABLE, SIGN IS TO BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON RIGHT.
2. VERBAL DESCRIPTION AS TO REST ROOM USAGE (I.E. MEN'S REST ROOM) IS TO BE PLACED DIRECTLY BELOW THE SYMBOL OF ACCESSIBILITY.
3. THE CHARACTER AND BACKGROUND OF THE SIGN IS EGGSHELL, MATTE, OR OTHER NON -GLARE FINISH AND THE COLOR AND THE CONTRAST OF THE SIGN DISTINCTIVELY CONTRASTS WITH THE COLOR OF THE WALL.

NOTE: THE REQUIRED COLOR OF THE SYMBOL OF ACCESSIBILITY CONSISTS OF A WHITE FIGURE ON A BLUE BACKGROUND

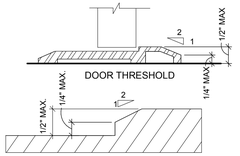
4. SIGNS ARE CENTERED ON THE WALL 60" FROM THE FLOOR.
5. LETTERS AND NUMERALS ARE RAISED 1/32", SANS-SERIF UPPERCASE CHARACTERS AND ARE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS ARE MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH.
6. MOUNTING LOCATION ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



TACTILE SIGNAGE MOUNTING HEIGHTS



TRANSITION BETWEEN FLOOR FINISHES

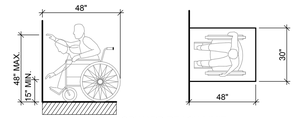


LEVEL CHANGES

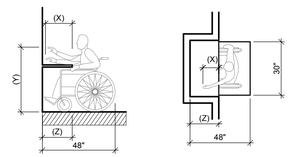
NOTES:

1. 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.
2. 1:2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL.
3. LEVEL CHANGES OF MORE THAN 1/2" MUST BE RAMPED AND COMPLY WITH RAMP REQUIREMENTS.

3 THRESHOLDS & LEVEL CHANGES
G1.2 SCALE:NTS



HIGH FORWARD REACH LIMIT



NOTES:

1. X SHALL BE.< 25 INCHES; Z SHALL BE > X.
2. WHEN X.< 20 INCHES, THEN Y SHALL BE 48 INCHES MAXIMUM.
3. WHEN X IS > 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM.

MAXIMUM FORWARD REACH OVER AN OBSTRUCTION

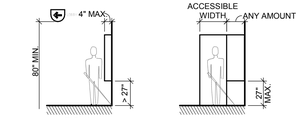


FIG (A) FIG (B)

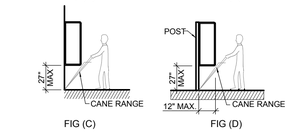
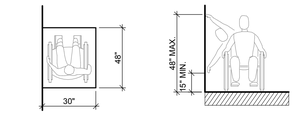
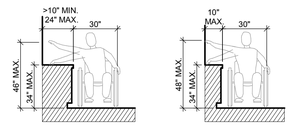


FIG (C) FIG (D)

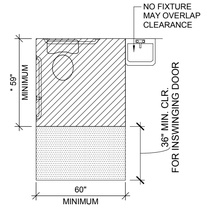
4 PROTRUDING OBJECTS
G1.2 SCALE:NTS



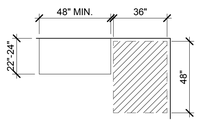


SIDE REACH OVER AN OBSTRUCTION

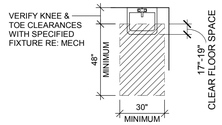
5 REACH REQUIREMENTS
G1.2 SCALE:NTS



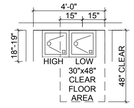
WATER CLOSET CLEARANCE



FIXED BENCH CLEARANCE



LAVATORY CLEARANCE



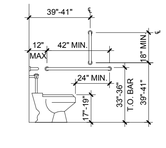
DRINKING FOUNTAIN PLAN

DRINKING FOUNTAIN NOTES FOR LOW DRINKING FOUNTAIN:

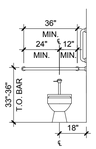
1. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER.
2. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. SPOUTS SHALL BE NO HIGHER THAN 36" MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.
3. WALL AND POST MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27" HIGH, 30" WIDE, AND 17-19" DEEP. SUCH UNITS SHALL HAVE A MINIMUM CLEAR FLOOR SPACE 30" X 48" TO ALLOW A PERSON IN A WHEEL- CHAIR TO APPROACH THE UNIT FACING FORWARD.
4. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE FOUNTAIN: 27" MIN. FROM THE FLOOR TO THE UNDERSIDE OF THE FOUNTAIN WHICH EXTENDS 8" MIN. MEASURED FROM THE FRONT EDGE UNDERNEATH THE FOUNTAIN BACK TOWARDS THE WALL; IF A MIN. 9" OF TOE CLEARANCE IS PROVIDED, A MAX. OF 6" OF THE 48" OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE.

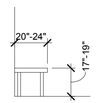
ACCESSIBILITY REQUIREMENTS

1. ALL CONSTRUCTION SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE DESIGN GUIDELINES ESTABLISHED BY THE 2016 CALIFORNIA BUILDING CODE (CALIFORNIA TITLE 24 ACCESSIBILITY) AND ALL STATE AND LOCAL ACCESSIBILITY CODE REQUIREMENTS.
2. UTILIZE EXTREME CARE TO ENSURE THAT ALL TOLERANCES, DIMENSIONS, AND CLEARANCES ARE CONSTRUCTED ACCURATELY.
3. TAKE ANY AND ALL ACTIONS NECESSARY TO CORRECT CONDITIONS WHICH ARE IN THE OPINION OF THE STATE ACCESSIBILITY INSPECTOR IN VIOLATION OF GUILDELINES AS THE DIRECT & SOLO RESULT OF DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS OR INADEQUATE CONSTRUCTION CONTROL &, OR TOLERANCES.

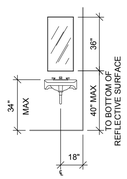


WATER CLOSET

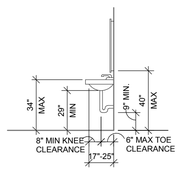




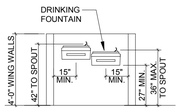
FIXED BENCH



LAVATORIES

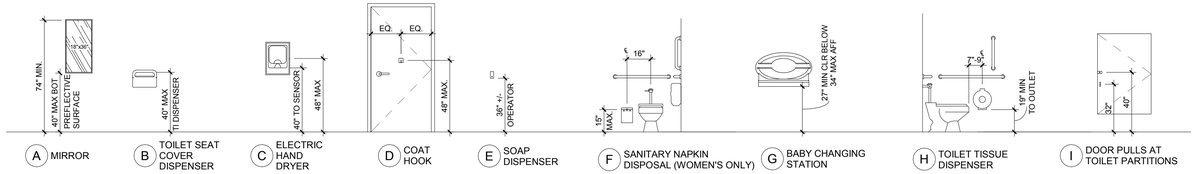


WATER CLOSET



DRINKING FOUNTAIN ELEVATION

6 TOILET ROOM FIXTURE HEIGHTS & CLEARANCES
G1.2 SCALE: 1/4" = 1'-0"



A MIRROR
B TOILET SEAT COVER DISPENSER
C ELECTRIC HAND DRYER
D COAT HOOK
E SOAP DISPENSER
F SANITARY NAPKIN DISPOSAL (WOMEN'S ONLY)
G BABY CHANGING STATION
H TOILET TISSUE DISPENSER
I DOOR PULLS AT TOILET PARTITIONS

7 ACCESSORY MOUNTING DIAGRAM
G1.2 SCALE: 1/4" = 1'-0"

HARDWARE

HARDWARE HAND ACTIVATED DOOR OPENING HARDWARE IS REQUIRED TO BE CENTERED BETWEEN 30 AND 44 INCHES HIGH. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL HAVE TO BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS ARE REQUIRED TO OPERATE AS DESCRIBED ABOVE IN THE DIRECTION OF EGRESS.

CLOSERS THE MAXIMUM EFFORT TO OPERATE DOORS CANNOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. REQUIRED FIRE DOORS MAY REQUIRED UP TO 15 POUNDS PRESSURE. THE PRESSURE IS TO BE MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE REQUIREMENTS. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES (75 mm) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

DOORS

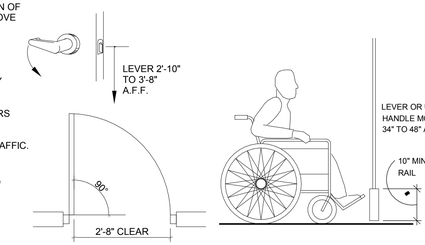
ENTRANCES ALL PRIMARY ENTRANCES TO BUILDINGS AND FACILITIES ARE REQUIRED TO BE MADE ACCESSIBLE. A PRIMARY ENTRANCE IS DEFINED AS, "...ANY ENTRANCE TO A FACILITY WHICH HAS A SUBSTANTIAL FLOW OF PEDESTRIANS TO ANY SPECIFIC MAJOR FUNCTION OF THE FACILITY." REVOLVING DOORS CAN NOT BE USED AS A REQUIRED ENTRANCE FOR THE HANDICAPPED. RECESSED DOORMATS ARE REQUIRED TO BE ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIR TRAFFIC.

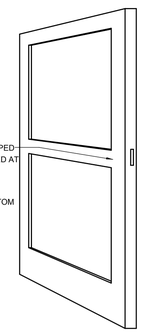
DOOR WIDTHS & HEIGHTS REQUIRED EXIT DOORWAYS ARE REQUIRED TO HAVE A CLEAR OPENING NOT LESS THAN 32 INCHES WIDE. FOR HINGED DOORS, THE OPENING IS MEASURED WITH THE DOOR AT A 90 DEGREE ANGLE FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS, INCLUDING AUTOMATIC DOORS, HAS TO PROVIDE THE 32 INCH CLEAR OPENING. DOOR HEIGHTS ARE REQUIRED TO BE A MINIMUM OF 80 INCHES.

THRESHOLD THRESHOLDS ARE REQUIRED TO BE NO MORE THAN 1/2 INCH HIGH. BEVEL OR SLOPE THE EXPOSED EDGE AT AN ANGLE NOT EXCEEDING 45 DEGREES SO THAT NO SINGLE VERTICAL CHANGE OF ELEVATION EXCEEDS 1/4" INCH.

1. EXIT DOORS, TOILET ROOM AND CHANGING ROOM DOOR TO BE OPERABLE FROM INSIDE WITHOUT SPECIAL KNOWLEDGE, FORCE OR NEED OF KEY.
2. SEE SPECIFICATION SHEET FOR RESPONSIBILITIES.
3. ALL HARDWARE TO BE LEVER TYPE.

ENTRANCE SIGNS ALL BUILDINGS ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PERSONS SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.





NOTE: NOT ALL HANDICAP COMPONECTS MAY BE USED IN THIS PROJECT. THIS SHEET IS PROVIDED FOR GENERAL REFERENCE ONLY.

8 DOOR/HARDWARE DETAIL
G1.2 SCALE: 1/4" = 1'-0"

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE.
CHINO, CA 91710

LDG
Larson Design Group
1000 Commerce Park Dr
Suite 201
Williamsport, PA 17701
PHONE 570.323.6603
FAX 570.323.9902
www.larsondesigngroup.com
Architects Engineers Surveyors

PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB

SHEET TITLE
ACCESSIBILITY STANDARDS

SHEET NO.
G1.2

VENDOR LIST

AUTOMATIC DOOR VENDOR (REQUIRED) MACKENZIE AUTOMATIC DOORS CONTACT: DONALD MATTSON 72 READE STREET NEW YORK, NY 10007 dmattson@mackenzie-group.com TEL:917.613.8621 MINIMUM LEAD TIME: 6 WEEKS	**VCT** INSIDE EDGE CONTACT: VANESSA BECKSTROM 2700 BLUE WATER ROAD SUITE 400 EAGAN, MN 55121 vbeckstrom@iecis.com TEL: 651.389.4238 FAX: 651.389.3901 MINIMUM LEAD TIME: 6 WEEKS	**COLUMN WRAPS & CORNER GUARDS** (REQUIRED) RETAIL SPECIALTY INC. CONTACT: DAN HICKEY RSICEO@YAHOO.COM TEL: 586.566.7716
FRP (REQUIRED) MARLITE CONTACT: KARLIE ANDERSON 202 HARGER STREET DOVER, OH 44622 kanderson@marlite.com TEL: 330.602.2214 FAX: 856.786.1155	**HELIUM SYSTEM** (REQUIRED) WESTERN ENTERPRISES partycityPO@WesternEnterprises.com TEL: 800.783.7890 FAX: 440.835.8283	**ELIASON DOORS** (REQUIRED) ELIASON CONTACT: CHRIS JOHNSON quotes-orders@seneca.com TEL-GENERAL: 800-415-5013 FAX: 440-835-8283 MINIMUM LEAD TIME: 9 WEEKS
PLUMBING ACCESSORIES (REQUIRED) IMPERIAL BAG & PAPER CO. CONTACT: DEBRALUZ HERNANDEZ 255 ROUTE 1 & 9 JERSEY CITY, NJ 07306 TEL: 201.437.7440 EXT. 3702 -OR- AILEEN FONTANEZ AFONTEZ@IMPERIALBAG.COM (201)437-7440 EXT. 3117	**LIGHTING & CONTROLS** (REQUIRED) WIEDENBACH - BROWN CONTACT: LISA PETRO EMAIL QUOTE REQUESTED TO: PCSUPPORT@WBLIGHT.COM TEL: 781.619.6074 MINIMUM LEAD TIME: 4-6 WEEKS	**HVAC UNITS** (REQUIRED) LENNOX CONTACT: NATIONAL ACCOUNTS nationalaccountrequest@lennoxind.com TEL: 800.367.6285 MINIMUM LEAD TIME: 8 WEEKS

RESPONSIBILITY SCHEDULE

GENERAL REQUIREMENTS	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
PERMITS/FEES/TAXES	●	●				
CERTIFICATE OF INSURANCE	●	●				
HAZMAT ABATEMENT	●	●				INCLUDING ASBESTOS REMOVAL
UTILITIES	●	●				TRANSFERRED @ TURNOVER
BARRICADE	●	●				
DEMOLITION	●	●				AS REQUIRED
BUILDING SHELL	●	●				
FINAL CLEAN UP READY FOR OCCUPANCY	●	●				
CERTIFICATE OF OCCUPANCY	●	●				
AS-BUILT/JOB SITE PLANS	●	●				INCLUDING STORAGE TUBE
SEISMIC ENGINEERING AND PERMITS	●	●				

FLOOR CONSTRUCTION	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
COMPACTED FILL	●	●				
GRAVEL BASE	●	●				
VAPOR BARRIER	●	●				
CONCRETE SLAB & CURING SEALER	●	●				FLASH PATCH AS REQUIRED
EXPANSION JOINTS	●	●				IF APPLICABLE
SLAB PREPARATION	●	●				FLASH PATCH AS REQUIRED
SLAB INFILL	●	●				

DEMISING PARTITIONS	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
NEUTRAL PIER(S)	●	●				IF APPLICABLE
FIREPROOFING	●	●				AS REQUIRED BY CODE
FIRESTOPPING	●	●				AS REQUIRED BY CODE
METAL STUDS	●	●				
BLOCKING / STRAPPING	●	●				
MASONRY	●	●				
INSULATION	●	●				
GYPSUM BOARD	●	●				PATCH & REPAIR AS REQ'D
TAPING & SPACKLING	●	●				

INTERIOR PARTITIONS	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
METAL STUDS/GYPSUM BOARD	●	●				PATCH & REPAIR AS REQ'D
BLOCKING	●	●				FIRE RETARDANT TYPE AS REQ'D

CEILINGS	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
GYPSUM BOARD AND SUSPENSION	●	●				
ACOUSTICAL CEILING TILE AND GRID	●	●				
STOREFRONT VESTIBULE	●	●				

OPENINGS	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
ALUMINUM STOREFRONT FRAMING SYSTEM	●	●				
AUTOMATIC SLIDING DOORS & FRAMES	●	●				***
GLAZING: STOREFRONT & SLIDING DOORS	●	●				
STRUCTURAL STEEL FRAMING	●	●				AS REQUIRED
OVERHEAD ROLLING DOORS	●	●				
STOREFRONT SECURITY GRILLE	●	●				
DOORS: ACCESS PANELS/DOORS	●	●				
DOORS: HOLLOW MTL, WOOD, HARDWARE	●	●				INCLUDING FRAMES
DOORS: TRAFFIC & HARDWARE	●	●				INCLUDING FRAMES
LOCKSETS: DETEX	●	●				
LOCKSETS: "BEST" 7-PIN CORES & KEYS	●	●				

SIGNAGE	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
STOREFRONT			●	●		***, UNDER SEPARATE PERMIT
SERVICE DOOR(S)	●	●				
INTERIOR SIGNAGE			●	●		
BLADE SIGN (UNDER CANOPY SIGN)			●	●		
WINDOW DECALS (ADDRESS)	●	●				
TOILET ROOM SIGNAGE	●	●				

FINISHES	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
FLOORS						
CONCRETE SLAB SEALER (TRAFFIC)	●	●				STOCK ROOM ONLY
RESILIENT VINYL TILE FLOORING	●	●				***
RESILIENT SHEET VINYL FLOORING	●	●				
WALLS						
VINYL BASE	●	●				
PRIMER & PAINTING	●	●				
WALLS & CORNER GUARDS	●	●				
FIBERGLASS REINFORCED PANELS (FRP)	●	●				
MIRROR AT TOILET ROOMS	●	●				
CEILINGS						
PRIMER & PAINTING	●	●				

FIXT'R/FURN/EQUIPT	T.G.C. F	T.G.C. I	TENANT F	TENANT I	N/A	REMARKS
CASHWRAP & COUNTERS			●	●		
WALL FIXTURE SYSTEM & HARDWARE			●	●		
FLOOR FIXTURE SYSTEM & HARDWARE			●	●		
STOCK SHELVING SYSTEM & HARDWARE			●	●		
BULLETIN BD, SAFE, LOCKERS, MGR CHAIR			●	●		
BREAK ROOM TABLE & CHAIRS			●	●		
BREAK ROOM REFRIG, MICROWAVE			●	●		
SLATWALL			●	●		
ALL MIRRORS	●	●				
OFFICE MILLWORK & SHELVES	●	●				
CART CORRAL			●	●		
WALK OFF MAT			●	●		

MECHANICAL	T.G.C. F	T.G.C. I	TENANT F	TENANT I	N/A	REMARKS
FLOOR PENETRATIONS / PATCHING	●	●				
ROOF PENETRATIONS / PATCHING	●	●				
FRAMING / SUPPORTS	●	●				
MECHANICAL EQUIPMENT	●	●				***; INCLUDING T-STAT
SMOKE EVACUATION SYSTEM	●	●				AS REQUIRED
DUCTWORK & DIFFUSERS	●	●				
DAMPERS & GRILLES	●	●				
TOILET RM. EXHAUST FAN	●	●				
SMOKE DETECTORS	●	●				
TESTING & BALANCING	●	●				

ELECTRICAL	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
SERVICE TO PREMISES-CONDUIT/PULL WIRE	●	●				INSTALL NEW IF REQUIRED
SERVICE TO PREMISES-SERVICE WIRE	●	●				INSTALL NEW IF REQUIRED
METER	●	●				
METER BASE	●	●				
TEL/DATA TO PREMISE-CONDUIT/WIRE	●	●				INSTALL NEW IF REQUIRED
TEL/DATA IN PREMISE-CONDUIT/PRE WIRE	●	●				CONDUIT, CAT 5E DATA CABLE & CAT 5E PHONE CABLE BY G.C.
TEL/DATA LINES FOR FIRE ALARM EQUIP.	●	●				
TEL/DATA EQUIPMENT			●	●		
TRANSFORMER	●	●				
DISTRIBUTION/WIRING	●	●				
LIGHT FIXTURES & LAMPS-SALES AREA	●	●				***
LIGHT FIXTURES & LAMPS-STOCK AREA	●	●				***
FINAL SIGN CONNECTION(S)	●	●				COORDINATE WITH TENANT VENDOR
EXIT/EMERGENCY LIGHTS	●	●				***
SECURITY SYSTEM			●	●		
MOTION SENSORS			●	●		
SOUND SYSTEM & WIRING			●	●		
SERVICE DOOR BUZZER / ANNUNCIATOR	●	●				RING AT STOCKROOM & CASHWRAP
ELECTRICAL PANELS	●	●				
BUSSWAY	●	●				

PLUMBING	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
SANITARY WASTE TO PREMISES	●	●				
DOMESTIC SUPPLY TO PREMISES	●	●				
VENT PIPE TO PREMISES	●	●				AT MULTI-LEVEL LOCATIONS
SUPPLY, VENT, WASTE PIPING	●	●				EXTEND ALL UTILITY LINES AS REQ'D
WATER HEATER	●	●				
WATER METER	●	●				INSTALL NEW IF DAMAGED, OR AS REQ'D
GAS PIPING	●	●				AS REQUIRED
GAS METER	●	●				AS REQUIRED
FIXTURES/EQUIPMENT	●	●				
LAVATORY ACCESSORIES	●	●				
DRINKING FOUNTAIN	●	●				
FLOOR DRAIN	●	●				
SLOP SINK/MOP SINK/BREAK ROOM SINK	●	●				
HELIUM FILLING STATION @ STOCK AREA	●	●				4'x8' PLYWOOD BACKING BY G.C., ***
HELIUM TUBING FROM STOCK AREA TO CASHWRAP	●	●				PRESSURE TEST AFTER INSTALLATION
INFLATION STATION EQUIP @ CASHWRAP	●	●				***

FIRE PROTECTION	G.C. F	G.C. I	TENANT F	TENANT I	N/A	REMARKS
SPRINKLER MAIN TO PREMISES	●	●				
SPRINKLER BRANCH LINES/DROPS/HEADS	●	●				
MODIFICATIONS TO LINES/DROPS HEADS	●	●				
FIRE ALARM SYSTEM	●	●				INCLUDE AUDIO & VISUAL ALARMS IF REQUIRED BY CODE. FURNISH & INSTALL "SILENT KNIGHT 5808" (NO SUBSTITUTIONS) IN LOCATIONS WHERE PARTY CITY IS RESPONSIBLE FOR FIRE ALARM MONITORING
FIRE EXTINGUISHERS/CABINET	●	●				
FIRE ALARM SYSTEM MODIFICATIONS	●	●				FIRE ALARM AND SPRINKLER
SHOP DRAWINGS REQ'D FOR PERMIT	●	●				AS REQUIRED BY CODE

KEY:

E - EXISTING
G.C. - GENERAL CONTRACTOR
F - FURNISH
I - INSTALL
N/A - NOT APPLICABLE
*** - REFER TO NATIONAL ACCOUNTS LIST

NOTE:
- REFER TO THE VENDOR LIST FOR THE COMPANY/CONTACTS FOR ITEMS REQUIRED BY THE TENANT.
- REFER TO ATTACHED CONSTRUCTION DOCUMENTS FOR SPECIFIC WORK.
- THE RESPONSIBILITY SCHEDULE IS INTENDED TO BE USED AS A GUIDE ONLY, AND IS NOT ALL-INCLUSIVE.
- ALL PERSONS BIDDING WORK OR CONTRACTED FOR WORK ARE TO REVIEW THESE DOCUMENTS, THE LANDLORD CRITERIA, AND THE EXECUTED LEASE AGREEMENT, IN THEIR ENTIRETY.

NOTE:
NOT ALL WORK LISTED MAY BE APPLICABLE. VERIFY W/ ACTUAL PROJECT SCOPE OF WORK - SCHEDULE PROVIDED FOR REFERENCE ONLY

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

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Larson Design Group
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PROTO NO. 1703

PROJECT NO. 8099-196

DRAWN BY BCW

APP'VD BY GWB

SHEET TITLE
CONTRACTOR INFORMATION

SHEET NO.
G2.0

ABBREVIATIONS

A

@	AT
&	AND
A	AMPERE, COMPRESSED AIR
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABAN	ABANDON(ED)
ABT	ABOUT
ABUT	ABUTMENT
ABV	ABOVE
AC	ALTERNATING CURRENT
ACC	ACCESSIBLE
ACI	AMERICAN CONCRETE INSTITUTE
ACS	ACCESS
ACT	ACOUSTICAL CEILING TILE
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHD	AHEAD
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
AMER STD	AMERICAN STANDARD
ANC	ANCHOR, ANCHORAGE
ANOD	ANODIZED
APPD	APPROVED
APPROX	APPROXIMATE
APPV	APPROVE
ARCH	ARCHITECT, ARCHITECTURAL
ARR	ARRANGEMENT
ASAP	AS SOON AS POSSIBLE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWS	AMERICAN WELDING SOCIETY
AZ	AZIMUTH

B

B/B	BACK TO BACK
BC	BOLT CIRCLE
BD	BOARD
BFILL	BACK FILL
BITUM	BITUMINOUS
BK	BACK
BL	BASE LINE, BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM, BENCH MARK
BOC	BOTTOM OF CURB
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BOW	BOTTOM OF WALL
BP	BASE PLATE
BRCG	BRACING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BTWN	BETWEEN
BVL	BEVELED

C

C TO C	CENTER TO CENTER
CANTIL	CANTILEVER
CAP	CAPACITY
CB	CATCH BASIN
CBORE	COUNTERBORE
CC	CUBIC CENTIMETER
CCTV	CLOSED CIRCUIT TELEVISION
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CEM	CEMENT
CER	CERAMIC
CERTS	CERTIFICATES
CFM	CUBIC FOOT (FEET) PER MINUTE
CFS	CUBIC FOOT (FEET) PER SECOND
CG	CENTER OF GRAVITY
CHFR	CHAMFER
CHKD	CHECKED, CHECKERED
CLG HT	CEILING HEIGHT
CI	CAST IRON
CIP	CAST-IN-PLACE, CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLJ	CONTROL JOINT
CLO	CLOSET
CLR	CLEAR, CLEARANCE
CLWG	CLEAR WIRE GLASS
CM	CENTIMETER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAR OPENING
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION, CONNECTOR
CONSTR	CONSTRUCTION
CONT	CONTINUE, CONTINUATION, CONTINUOUS
COORD	COORDINATE
CORP	CORPORATE, CORPORATION
CORR	CORRIDOR, CORRUGATED
CPT	CARPET
CRS	COLD ROLLED STEEL
CS	CARBON STEEL
CSK	COUNTERSINK
CSMT	CASEMENT
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTJ	CONTRACTION JOINT
CTR	CENTER
CTW	CERAMIC TILE WAINSCOT
CTWALK	CATWALK
CU	COPPER
CU IN	CUBIC INCH
CU FT	CUBIC FEET
CU M	CUBIC METER
CU MM	CUBIC MILLIMETER
CUB	CUBICLE
CU YD	CUBIC YARD
CYL	CYLINDER

D

D	DEEP, DEPTH, PENNY(NAIL)
DB	DRY BULB
DBL	DOUBLE
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DEMO	DEMOLISH. DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DFT	DRY FILM THICKNESS
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIFF	DIFFERENCE
DIM	DIMENSION
DL	DEAD LOAD
DMPR	DAMPER
DN	DOWN
DOM	DOMESTIC
DP	DEW POINT
DR	DOOR
DS	DISCONNECT SWITCH, DOWNSPOUT
DWG	DRAWING

E

E	EAST
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EACH FACE
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	EACH LAYER, ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATOR
EMB	EMBANKMENT
EMBED	EMBEDMENT
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
ERV	ENERGY RECOVERY VENTILATOR
ES	EACH SIDE, EDGE OF SHOULDER, ELECTROSTATIC
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERNAL, EXTERIOR
EXT GR	EXTERIOR GRADE

F

FA	FIRE ALARM
FB	FLAT BAR
FC BRK	FACE BRICK
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDMPR	FIRE DAMPER
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISHED FLOOR ELEVATION
FGL	FIBERGLASS
FIN	FINISHED
FIN FLR	FINISHED FLOOR
FL	FLOOR LINE
FLA	FULL LOAD AMPS
FLG	FLANGE, FLOORING
FLJ	FLOOR JOIST
FLR	FLOOR
FLR PL	FLOOR PLATE
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPM	FOOT (FEET) PER MINUTE
FPS	FOOT (FEET) PER SECOND
FR	FRAME
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE, FEDERAL SPECIFICATION
FT	FOOT (FEET)
FTG	FOOTING
FVNR	FULL VOLTAGE NoN-REVERSING
FVR	FULL VOLTAGE REVERSING

G

G	GIRDER, GROUND, GROUND WIRE, NATURAL GAS
GA	GAUGE OR GAGE
GAB	GRADED AGGREGATE BASE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GF	GROUND FACE
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTION
GL	GIRT LINE, GLASS
GND	GROUND, LEVEL
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GR BM	GRADE BEAM
GRTG	GRATING
GT	GIRDER TRUSS, GROUT
GWB	GYPSUM WALLBOARD
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY

H

H	HIGH
HC	HOLLOW CORE
HCA	HEADED CONCRETE ANCHOR
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEX	HEXAGONAL
HEX HD	HEXAGONAL HEAD
HG	HOT GAS, HEAT GAIN, MERCURY
HGR	HANGER
HK	HOOK
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HPT	HIGH POINT
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWY	HIGHWAY
HZ	HERTZ

I

IBC	INTERNATIONAL BUILDING CODE
IBO	INSTALLED BY OTHERS
ID	INSIDE DIAMETER
IE	THAT IS
IF	INSIDE FACE
IJ	ISOLATION JOINT
IN	INCH
INC	INCORPORATED, INCREASE
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATE/INSULATION
INTMD	INTERMEDIATE
INT	INTERIOR
IPS	IRON PIPE SIZE
IR	INSIDE RADIUS

J

J-BOX	JUNCTION BOX
JAN CLO	JANITOR'S CLOSET
JST	JOIST
JT	JOINT

K

K	KIP (THOUSAND POUNDS)
KB	KNEE BRACE
KFT	THOUSAND FT POUNDS
KLF	KIPS PER LINEAR FOOT
KO	KNOCK OUT
KPL	KICK PLATE
KSI	KIPS PER SQUARE INCH
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVAR
KW	KILOWATT

L

L	LEFT
LAD	LADDER
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LH	LEFT HAND
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDE, LONGITUDINAL
LPCR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LPT	LOW POINT
LS	LUMP SUM
LVL	LAMINATED VENEER LUMBER, LEVEL
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE

M

MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBTUH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
	MOMENT CONNECTION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON, MILE
MIL	ONE THOUSANDTH INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING, MOULDING
MLO	MAIN LUGS ONLY
MM	MILLIMETER
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MV	MERCURY VAPOR

N

N	NORTH
NA	NOT APPLICABLE
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MFR.
NATL	NATIONAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE, NECESSARY
NEMA	NATIONAL ELECTRICAL
NF	MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELEC SAFETY CODE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPT	NATIONAL TAPER PIPE (THREAD)
NS	NEAR SIDE
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFM	OUTSIDE FACE OF MASONRY
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OR	OUTSIDE RADIUS
OSB	ORIENTED STRAND BOARD
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVHD	OVERHEAD
OWJ	OPEN-WEB JOIST
OZ	OUNCE

P

/	PER (BETWEEN WORDS)
P	PUMP
PAR	PARALLEL
PB	PUSH BUTTON
PBO	PROVIDED BY OTHERS
PC	PLUMBING CONTRACTOR
	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEC	PHOTO ELECTRIC CELL
PERF	PERFORATED
PERP	PERPENDICULAR
PH	PHASE
PIBO	PROVIDED AND INSTALLED BY OTHERS
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FOOT
PL GL	PLATE GLASS
PLYWD	PLYWOOD
PMF	PRE-MOLDED FILLER, PROBABLE MAXIMUM FLOOD
PNL	PANEL
PR	PAIR
PREFIN	PREFINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PT	PAINT, PRESSURE TREATED
PTD	PAINTED
PTN	PARTITION
PTW	PRESSURE TREATED WOOD
PVC	POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE

Q

QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QT	QUARRY TILE, QUART
QTY	QUANTITY

R

R	RADIUS, RISER
RA	RETURN AIR
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
RE:	REFER TO
RECPT	RECEPTACLE
REINF	REINFORCING
REM	REMOVABLE
REQD	REQUIRED
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
RT	RIGHT
RTU	ROOFTOP UNIT
RWC	RAINWATER CONDUCTOR

S

S	SOUTH
(S)	SLOPES
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SENS	SENSIBLE
SHN	SHOWN
SHT	SHEET
SHT MTL	SHEET METAL
SHTHG	SHEATHING
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLBB	SHORT LEG BACK TO BACK
SP	SPACE (D) (S)
SPEC	SPECIFICATION
SPF	SPRUCE-PINE-FIR
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ MI	SQUARE MILE
SS	SANITARY SEWER
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STIF	STIFFENER
STIR	STIRRUP
STOR	STORAGE
STRUCT	STRUCTURAL
SQ YD	SQUARE YARD
SYMM	SYMMETRICAL

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TC	TERRA COTTA, TOP CHORD
TEMP	TEMPORARY
THD	THREAD
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOG	TOP OF GRATING
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TRS	TRUSS
TRTD	TREATED
TS	TUBE STEEL
TOD	TOP OF DUCT
TOW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL

U

UGND	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UN	UNLESS NOTED
UNC	UNIFIED COARSE THREAD
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNF	UNIFIED FINE THREAD
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL

V

V	VENT, VOLT, VOLTAGE
VAR	VARIABLE, VARIATION, VARIES
VAV	VARIABLE AIR VOLUME BOX
VB	VACUUM BREAKER, VINYL BASE
VCB	VACUUM CIRCUIT BREAKER
	VINYL COVER BASE
VCT	VINYL COMPOSITION TILE
VEL	VELOCITY
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VSD	VARIABLE SPEED DRIVE
VTR	VENT THRU ROOF

W

W	WASTE, WATT, WEST, WIDE
W/	WITH
W/O	WITHOUT
WB	WET BULB, WOOD BASE
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WG	WATER GAUGE, WIRE GUARD
WH	WATER HEATER
WHM	WATT HOUR METER
WL	WIND LOAD
WO	WALL OPENING, WHERE OCCURS, WORK ORDER
WP	WORK POINT
WSCT	WAINSCOT
WU	WINDOW UNIT
WWR	WELDED WIRE REINFORCING

X

X	BY (BETWEEN DIMENSIONS)
XBRA	CROSS BRACING
XMFR	TRANSFORMER
XS	EXTRA STRING
XXS	DOUBLE EXTRA STRONG

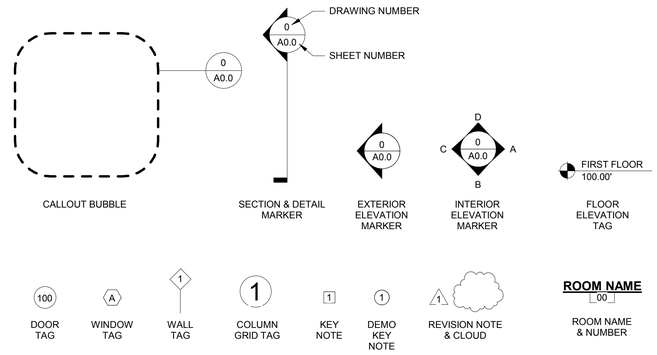
Y

YD	YARD

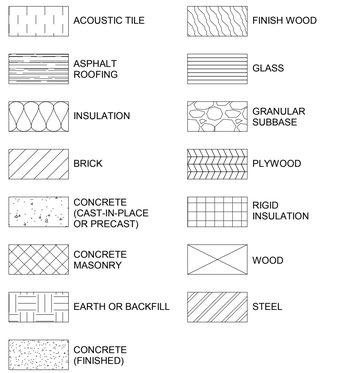
Z

ZD	ZONE DAMPER

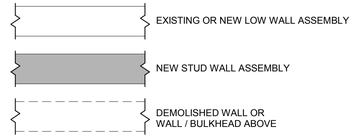
SYMBOLS



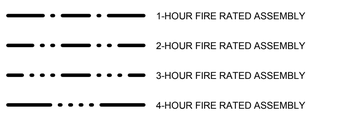
HATCH PATTERNS



WALL LEGEND



FIRE RATINGS



NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS MAY BE USED IN THIS PROJECT. THIS SHEET IS PROVIDED FOR GENERAL REFERENCE ONLY

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET

09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

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PROTO NO. 1703

PROJECT NO. 8099-196

DRAWN BY BCW

APP'D BY GWB

SHEET TITLE
SYMBOLS & ABBREVIATIONS

SHEET NO.
G3.0

GENERAL NOTES

1. VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS. BRING ANY DEVIATIONS THE ATTENTION OF THE TENANT'S PROJECT MANAGER

2. ALL DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCING THE WORK. FAILURE TO DO SO SHALL PLACE FULL RESPONSIBILITY FOR ANY ERRORS UPON THE CONTRACTOR.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, AND/OR EASEMENTS, EXISTING UTILITIES, AND ANY UNDERGROUND OR SURFACE STRUCTURE OR CONDITIONS PRIOR TO COMMENCING TO WORK.

4. UPON COMPLETION OF THE WORK, PROVIDE A WALL FRAME WITH CLEAR PLEXI FACE OVER THE MANAGER'S DESK CONTAINING THE CERTIFICATE OF OCCUPANCY.

5. SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK.

6. SEE RESPONSIBILITY SCHEDULE TO CLARIFY RESPONSIBILITIES FOR SPECIFIED WORK.

SPECIFICATIONS

DIVISION I GENERAL REQUIREMENTS/GENERAL CONDITIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL TENANT SPACE INCLUDING, BUT NOT LIMITED TI ALL FINISHES, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION.

A. COORDINATION:
1. COORDINATE WORK WITH WORK OF OTHER TRADES, THE LANDLORD'S FORCES, OTHER TENANT CONTRACTORS, AND TENANT STORE OPERATIONS IN ORDER TO AVOID CONFLICTS AND EXPEDITE THE COMPLETION OF THE PROJECT.
2. FURNISH LABOR, MATERIALS, EQUIPMENT AND APPLIANCES NECESSARY TO COMPLETE THE INSTALLATION OF ALL ITEMS FURNISHED BY OTHERS.

B. PROTECTION:
1. ERECT A TEMPORARY BARRICADE AT THE STOREFRONT ONLY IF REQUIRED BY THE GUIDELINES.
2. PROTECT THE PROPERTY OF THE ADJACENT TENANTS, COMMON AREAS, AND NEUTRAL PIERS AT ALL TIMES. ANY DAMAGE THAT OCCURS OF A RESULT OF DEMOLITION (OR CONSTRUCTION) IS TO BE REPAIRED TO LIKE NEW CONDITION.

C. CONTRACT CONSIDERATIONS:
1. SCHEDULE OF VALUES
a. SUBMIT A PRINTED SCHEDULE ON FORM INCLUDED WITH BID PROPOSAL
b. INCLUDE A DIRECT PROPORTIONAL AMOUNT OF OVERHEAD AND PROFIT WITH EACH LINE ITEM.
c. REVISE SCHEDULE TO LIST APPROVED CHANGE ORDERS, WITH EACH APPLICATION FOR PAYMENT

2. PAYMENT AND WAIER LIENS
a. PAYMENT APPLICATION FORMS SUBMIT PER THE OWNER'S REPRESENTATIVES REQUIREMENTS.
b. UTILIZE SCHEDULE OF VALUES FOR LISTING ITEMS IN APPLICATION FOR PAYMENTS.
c. ALL PAYMENTS FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY FOR PAYMENTS TO SUB-CONTRACTORS TO PERFORM WORK OR SUPPLE MATERIALS TO THIS PROJECT. SUBMIT PARTIAL WAIVERS OF LIENS INCLUDING SUB-CONTRACTORS AND MATERIAL SUPPLIERS.

3. CHANGE PROCEDURES:
a. OWNERS' REPRESENTATIVE WILL ADVISE OF MINOR CHANGES IN THE WORK NOT INVOLVING AN ADJUSTMENT RO CONTRACT SUM/PRICE OR CONTRACT TIME.
b. MAINTAIN DETAILED RECORDS OF WORK DONE ON TIME AND MATERIAL BASIS TO SUBSTANTIATE COSTS FOR CHANGES IN THE WORK.
c. CHANGE ORDER FORMS: SUBMIT PER THE OWNER'S REPRESENTATIVE'S REQUIREMENTS
d. EXECUTION OF CHANGE ORDERS: OWNER'S REPRESENTATIVE WILL ISSUE CHANGE ORDERS FOR SIGNATURES OF PARTIES AS PROVIDED IN THE CONDITIONS OF THE CONTRACT.
e. SUBMIT AN UPDATED CONSTRUCTION PROGRESS SCHEDULE.

4. ALTERNATIVES:
a. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN OWNER-CONTRACTOR AGREEMENT.
b. ALTERNATIVES MUST BE SUBMITTED WITH BID PROPOSAL, AS SEPARATE AND/OR DEDUCT ITEMS. BASE BID SHALL INCLUDE ALL ITEMS AND MANUFACTURERS AS ENUMERATED ON DRAWINGS AND/OR SPECIFICATIONS.
c. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK AS REQUIRED.

5. CLOSE OUT:
a.THE FINAL TEN PERCENT RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL BY ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS.
b. PROVIDE A LIST OF ALL SUBCONTRACTORS, INCLUDING ADDRESS AND PHONE NUMBERS INSTALLED IN A PICTURE FRAME ON BACK OF THE MANAGER'S OFFICE DOOR.
c. SUBMIT OPERATION MANUALS, MAINTENANCE INSTRUCTIONS, ETC.
d. THE GENERAL CONTRACTOR SHALL PROVIDE AS BUILT DRAWINGS TO THE OWNERS REPRESENTATIVE THAT REFLECTS ALL CHANGES TO THE PROJECT DURING THE COURSE OF CONSTRUCTION AT THE COMPLETION OF PROJECT.
e. LANDLORD AND TENANT ACKNOWLEDGE AND AGREE THAT LANDLORD SHALL SUBMIT A “CLOSE OUT” PACKAGE (IN ELECTRONIC FORMAT) TO TENANT WITHIN FORTY-FIVE (45) DAYS OF THE DATE OF DELIVERY OF POSSESSION WHICH SHALL INCLUDE THE FOLLOWING ITEMS:
·ALL EQUIPMENT WARRANTIES AND CUT SHEETS;
·HVAC BALANCING REPORT;
·PROOF OF HVAC POST CONSTRUCTION FILTER CHANGE(S);
·CERTIFICATE OF OCCUPANCY; (V) AS-BUILT DRAWINGS;
·LIST OF GENERAL CONTRACTOR AND SUBCONTRACTOR INFORMATION AND WORK PERFORMED;
·SLAB MOISTURE TEST RESULTS; AND
·COPY OF SPRINKLER TEST REPORT PERFORMED WITHIN ONE (1) MONTH OF THE DATE OF DELIVERY OF POSSESSION.

D. QUALITY OF WORK:
1. ALL WORK SHALL BE PERFORMED IN A SAFE AND WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION STANDARDS AND O.S.H.A. REQUIREMENTS. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS UNLESS A VARIANCE IS APPROVED BY THE TENANT AND ALL AUTHORITIES HAVING JURISDICTION.
2. ALL EQUIPMENT AND MATERIALS UNDER THE CONTRACT ARE TO BE NEW UNLESS OTHERWISE SPECIFIED IN THE PLANS.

E. CODE COMPLIANCE:
1. OT OS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE CERTAIN THAT ALL WORK IN IN COMPLIANCE WITH ALL CODES, ORDINANCES, AND REGULATIONS OF ALL CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION. THIS INCLUDES BUT IS NOT LIMITED TO LOCAL BUILDING CODE REQUIREMENTS, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, O.S.H.A., AND THE BEST TRADE PRACTICES.

F. DIMENSIONS:
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED FORM FINISHED FACE TO FINISHED FACE OF MATERIALS, FACE OF STOREFRONT, OR LEASE LINE.
2. VERIFY ALL PROPOSED DIMENSIONS WITH FIELD CONDITIONS. ADVISE TENANT'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND ACTUAL JOB CONDITIONS BEFORE BEGINNING THE WORK.
3. ALL ANGLES SHALL BE 90 OR 45 DEGREES UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DOCUMENTS.

G. SHOP DRAWINGS & SUBMITTALS:
1. G.C. TO SUBMIT SHOP DRAWINGS TO ARCHITECT/ENGINEER OF RECORD (COPY TENANT REPRESENTATIVE) FOR APPROVAL PRIOR TO CONSTRUCTION.
2. SUBMIT THE NUMBER OF OPAQUE REPRODUCTIONS WHICH CONTRACTOR REQUIRES, PLUS TWO COPIES, TO ARCHITECT/ENGINEER AND TENANT'S REPRESENTATIVE FOR APPROVAL.
3. SUBMITTALS MUST BE SCHEDULED SO AS NOT TO IMPEDE THE PROGRESS OF THE WORK.
4. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS, AND OTHER DATA. SUPPLEMENT MANUFACTURER'S STANDARD DATA TO PROVIDE INFORMATION SPECIFIC TO THIS PROJECT.
5. INDICATE SPECIAL UTILITY AND ELECTRICAL CHARACTERISTICS, UTILITY CONNECTION REQUIREMENTS, AND LOCATION OF UTILITY OUTLETS FOR SERVICE FOR FUNCTIONAL EQUIPMENT AND APPLIANCES.
6. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS WHICH MAY AFFECT THE CONSTRUCTION PROGRESS.

H. SAMPLES: SUBMIT THREE COPIES OF SAMPLE TO TENANT'S REPRESENTATIVE FOR APPROVAL WHEN REQUIRED BY INDIVIDUAL SPECIFICATION SECTION.
2. INCLUDE IDENTIFICATION ON EACH SAMPLE WITH FULL PROJECT INFORMATION.

DIVISION I GENERAL REQUIREMENTS/GENERAL CONDITIONS (CONT.)

I. GUARANTEE:
1. A WRITTEN GUARANTEE SHALL BE PROVIDED ON ALL LABOR AND MATERIALS FOR A PERIOD OF NO LESS THAN ONE YEAR FROM THE DATE OF THE SUBSTANTIAL COMPLETION OF THE PROJECT.
2. THE TENANT'S REPRESENTATIVES SIGNATURE AND DATE OF ACCEPTANCE IS REQUIRED IN ORDER TO ACTIVATE THIS GUARANTEE. THIS GUARANTEE SHALL COVER ALL OF THE GENERAL AND SUBCONTRACTOR'S WORK. ALL DEFECTS DISCOVERED DURING THIS GUARANTEE PERIOD SHALL BE REPAIRED TO THE OWNER AND/OR TENANT'S SATISFACTION AT CONTRACTOR'S EXPENSE AT NO COST TO THE OWNER AND/OR TENANT.

J. SUPERVISION:
1. PROVIDE A FULL TIME, QUALIFIED SUPERVISOR ON THE JOB SITE. ANY WORK REQUIRED TO BE COMPLETED DURING NON-BUSINESS HOURS SHALL BE INCLUDED IN THE BID.
2. PROVIDE A JOB SITE TELEPHONE AND FAX MACHINE DURING THE CONSTRUCTION PERIOD. NOTIFY TENANT'S REPRESENTATIVE IMMEDIATELY OF TELEPHONE AND FAX NUMBERS.
3. COORDINATE AND SCHEDULE ALL NON-BUSINESS HOUR WORK WITH BUILDING MANAGER.

K. UTILITIES:
1. PROVIDE ALL TEMPORARY UTILITIES (INCLUDING, BUT NOT LIMITED TO, WATER, SEWERAGE, ELECTRICAL POWER, FUEL AND TELEPHONES) AND THE COSTS ASSOCIATED WITH THESE. PROVIDE TENANT'S REPRESENTATIVE WITH ALL UTILITY COMPANY NAMES, NUMBERS, CONTACTS AND ACCOUNT NUMBERS (TENANT WILL TRANSFER ACCOUNTS TO THEIR NAME AT TURNOVER).AL

L. TRASH REMOVAL:
1. PROVIDE FOR DAILY REMOVAL OF ALL TRASH, RUBBISH AND SURPLUS MATERIALS RESULTING FROM CONSTRUCTION, FIXTURING, AND MERCHANDISING OF THE DEMISED PREMISES.

M. CLEAN UP AT TURNOVER:
1. PROVIDE A PROFESSIONAL CLEANING SERVICE FOR ALL AREAS OF THE STORE AT THE COMPLETION OF THE PROJECT AND BEFORE TURNING THE PROJECT OVER TO THE TENANT. WORK TO INCLUDE, BUT NOT BE LIMITED TO ALL CEILING SURFACES, FLOOR AND WALL SURFACES, BOTH INTERIOR AND EXTERIOR. THE STORE IS TO BE CLEAN AND READY FOR MERCHANDISING.
2. STOREFRONT IS TO BE CLEAN OF ALL DUST, GLUE, GROUT, AND MISAPPLIED PAINT.
3. HVAC FILTERS TO BE CHANGED FOLLOWING THE CLEANING.

N. INSURANCE:
1. SECURE, PAY FOR AND MAINTAIN, DURING CONSTRUCTION, ALL OF THE INSURANCE POLICIES REQUIRED. WORK SHALL NOT COMMENCE UNTIL ALL REQUIRED INSURANCE HAS BEEN OBTAINED AND CERTIFICATES OF SUCH INSURANCE HAVE BEEN DELIVERED. LANDLORD MUST BE NAMED AS "ADDITIONAL INSURED". CERTIFICATE OF INSURANCE SHALL COVER WORK PERFORMED BY CONTRACTOR, EACH SUBCONTRACTOR AND ALL MAJOR SUPPLIERS.

O. INDEMNIFICATION:
1. TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS THE LANDLORD, TENANT, AND ARCHITECT AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO, ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY OR TO DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OF USE RESULTING THEREFROM.

P. BACKGROUND COMPUTER-AIDED CONTRACT DESIGN DOCUMENTS:
1. IN THE EVENT THAT THE GENERAL CONTRACTOR OR ANY SUBCONTRACTORS REQUIRE BACKGROUND DRAWINGS, COPIES OF THESE DRAWINGS MAY BE PROVIDED SUBJECT TO THE FOLLOWING CONDITIONS:
a. A SEPARATE AGREEMENT TITLED "USE OF COMPUTER-AIDED DESIGN DOCUMENTS" MUST BE SIGNED BY THE CONTRACTOR/SUBCONTRACTOR BEFORE THE TRANSFER OF THE FILES.
b. CONTRACTOR MUST AGREE TO USE THE PROJECT FILES ONLY FOR THE LIMITED PURPOSE AS DESCRIBED IN THE AGREEMENT.
c. CONTRACTOR MUST AGREE TO REIMBURSE WJCA INC. OR THE TENANT FOR THE USE OF THE DOCUMENTS PER THE AGREEMENT. CONTRACTOR MAY REIMBURSE WJCA INC. DIRECTLY OR MAY AGREE TO CREDIT TENANT AN AMOUNT AGREED UPON WITH ARCHITECT & TENANT'S REPRESENTATIVE.

Q. DAMAGED FREIGHT (TENANT FURNISHED MATERIALS):
1. OPEN BOXES/CARTONS WITH OBVIOUS DAMAGE
2. INSPECT FREIGHT BEFORE SIGNING THE FREIGHT BILL, NOTE SPECIFICALLY THE ITEM(S) DAMAGED.
3. AFTER THE DAMAGE IS NOTED ON THE FREIGHT BILL, HAVE CARRIER'S DRIVER ALSO SIGN IN ORDER TO VERIFY THAT BOTH PARTIES AGREE TO THE EXTENT OF THE DAMAGE.
4. WHEN DAMAGE IS DISCOVERED UPON UNPACKING THE FREIGHT, INSPECT ALL PACKING FOR SIGNS OF DAMAGE OR ABUSE. THE FREIGHT BILL IS TO BE NOTED WITH THE SPECIFIED DAMAGE.
5. CONTACT THE TENANT'S REPRESENTATIVE WITHIN 48 HOURS OF TAKING RECEIPT OF MATERIALS TO INFORM THEM OF ANY LOSS. FAX ALL REQUIRED DOCUMENTATION TO TENANT'S REPRESENTATIVE.
6. IF TENANT'S CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, TENANT'S CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RELATED TO THE REPLACEMENT OF MISSING OR DAMAGED TENANT FURNISHED MATERIALS.

DIVISION II SITE CONSTRUCTION

A. VERIFY EXISTING CONDITIONS AND LOCATIONS OF UTILITIES, ROOF DRAINS, HVAC EQUIPMENT, ETC. PRIOR TO COMMENCING THE WORK.

B. DEMOLITION:
1. SCOPE OF WORK - THIS PORTION OF THE WORK INCLUDES ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR THE REASONABLY INCIDENTAL TO COMPLETE ALL DISMANTLING, DEMOLITION, AND SALVAGE AS SHOWN AND NOTED ON THE DRAWINGS AND SPECIFIED HEREIN. IN GENERAL, THE ITEMS TO BE PERFORMED UNDER THIS SECTION SHALL INCLUDE, BUT ARE NOT LIMITED TO: REMOVAL OF ALL EXISTING ACOUSTICS AND GYPSUM WALL BOARD, CEILING AND FRAMES, LIGHT FIXTURES, FLOORING, DOORS AND WALLS, FURRED OUT COLUMN ENCLOSURES, AND STOREFRONT AND AS SPECIFIED ON THE DRAWINGS.
2. DISCONNECTION OF SERVICES:
a. EXISTING SERVICES THAT WILL BE DISRUPTED BY CONSTRUCTION WORK SHALL BE RE-ROUTED AS NECESSARY TO PROVIDE TEMPORARY CONTINUATION SERVICE.
b. DISCONNECTED SERVICES SHALL BE PLUGGED AND SEALED IN AN APPROVED MANNER
c. SPRINKLER SHUT DOWN SHALL BE COORDINATED WITH THE BUILDING PRIOR TO EXECUTION OF WORK.
3. ABANDONED ELECTRICAL WIRING:
a. CONDUITS AND OTHER UTILITIES ENCOUNTERED IN THE PROGRESS OF THE DEMOLITION THAT ARE TO BE ABANDONED SHALL BE DISCONNECTED AND THE ENDS PLUGGED IN AN APPROVED MANNER. ANY ABANDONED UTILITIES INTERFERING WITH WORK UNDER THIS CONTRACT SHALL BE REMOVED ONLY TO THE EXTENT THAT THEY INTERFERE WITH NEW CONSTRUCTION.

DIVISION III CONCRETE

A. PATCHING (WHEN REQUIRED)
1. INSTALL MINIMUM 3000 PSI CONCRETE FILLER AND PATCHING WHERE EXISTING SLAB HAS BEEN REMOVED FOR UNDER SLAB CONDUITS, PLUMBING, ETC.

B. CONCRETE SLAB
1. INSTALL MINIMUM 3000 PSI CONCRETE WITH 6" X 6" - W1.4 X W1.4 W.W.F. AT MID LEVEL OVER 6 MIL. VAPOR BARRIER (AT SLAB ON GRADE CONDITIONS OR ADHERE TO LOCAL CODE REQUIREMENTS). INSTALL CONTROL JOINTS AT MAXIMUM 200 SF.

DIVISION IV MASONRY

A. NO WORK UNDER THIS SECTION UNLESS REQUIRED FOR PROPER CUTTING AND REPAIR OF BUILDING SHELL. IN THIS EVENT ALL WORK SHALL BE PERFORMED TO THE HIGHEST LEVELS OF QUALITY AND CRAFTSMANSHIP AND SHALL BE COORDINATED WITH LANDLORD'S REPRESENTATIVE.

DIVISION V METALS

A. METAL STUDS
1. 20 GA. MINIMUM AT NON-SALES WALLS, AT STOREFRONT OR WALLS WITH DECKS ABOVE.
2. 25 GA. MINIMUM, AT 16" O.C. MAXIMUM, AT TYPICAL PARTITIONS UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE ALL FASTENERS, SCREWS, BOLTS, CLIPS, ANCHORS, ANGLES, BRIDGES, BRACKETS, SLEEVES, ETC. AS REQUIRED.

B. METAL STANDARDS
1. FURNISH AND INSTALL PER PLANS AND MANUFACTURER'S RECOMMENDATIONS.

C. STRUCTURAL STEEL, AND/OR HEAVY GAUGE METAL FRAMING
1. INSTALL FRAMING, CONNECTION PLATES, SCREWS, BOLTS, ETC. AS SHOWN IN PLANS AND DETAILS.

D. REVEALS
1. INSTALL METAL REVEALS; SIZE AND LENGTH AS INDICATED ON PLANS. PROVIDE BLOCKING OR BACKING AS REQUIRED TO SECURE IN PLACE.
2. PAINT OR FINISH PER PLANS.

E. EXPANSION JOINTS
1. INSTALL PER PLANS AND MANUFACTURER'S RECOMMENDATIONS.
2. USG 093 FOR CEILINGS AND WALLS, AS MAY BE INDICATED IN THE DRAWINGS.
3. 100 OR 200 SERIES AS REQUIRED FOR APPLICATION (OPTIONAL 1" DEPTH) WITH ELASTOMERIC FILLER TO MATCH FINISH AS MANUFACTURED BY CONSPEC SYSTEMS INC., 877-CONSPEC.

F. SUSPENSION SYSTEM
1. PROVIDE AND INSTALL UNISTRUT SPACE FRAME GRID SYSTEM PER MANUFACTURERS SPECIFICATIONS AS REQUIRED FOR LIGHTING, CEILING ACCESSORIES OR MECHANICAL SYSTEMS SUSPENSION.
2. SUPPORT FROM STRUCTURE WITH THREADED RODS AND NUTS AS REQUIRED OR DETAILED.
3. CONTACT UNISTRUT CORPORATION 800-468-9510.

DIVISION VI WOOD & PLASTICS

A. CARPENTRY & BLOCKING:
1. BEFORE USING WOOD FRAMING OR BLOCKING OF ANY TYPE, CONFIRM CODE RESTRICTIONS. IF USE OF WOOD IS PERMITTED BY REQUIREMENTS, ADHERE TO THE FOLLOWING GUIDELINES:
a. USE NEW LUMBER BEARING GRADE AND TRADEMARK OF ASSOCIATION UNDER WHICH IT WAS PRODUCED.
b. LAYOUT, CUT, FIT AND ERECT FRAMING FOR ROUGH AND FINISHED WORK. INSTALL BLOCKING, NAILERS, FURRING AND OTHER ROUGH AND FINISHED MATERIALS AS REQUIRED. BRACE, PLUMB, AND LEVEL MEMBERS IN TRUE ALIGNMENT AND RIGIDLY SECURE IN PLACE WITH SUFFICIENT NAILS, SPIKES, SCREWS AND BOLTS AS NECESSARY.
c. FURNISH AND INSTALL ROUGH AND FINISHED PLYWOOD, FURRING SUPPORTS, ETC.
d. FURNISH AND INSTALL ALL ROUGH HARDWARE, ANCHORS, BOLTS, ETC. AS REQUIRED FOR CARPENTRY WORK.
e. ALL EXISTING OR NEW WOOD SHALL BE FIRE RETARDANT AND MUST BE IDENTIFIED WITH A UL LABEL CERTIFYING THIS CLASSIFICATION.

B. MILLWORK:
1. RECEIVE AND INSTALL ALL OWNER PROVIDED FINISHED MILLWORK, CABINETS, PANELING, DOORS AND FRAMES, ETC., AS SHOWN ON DRAWINGS OR AS DIRECTED.
2. CUT, FIT, AND INSTALL ALL MILLWORK AND SET PLUM AND TRUE IN ACCORDANCE WITH ASSEMBLY/INSTALLATION DRAWINGS PROVIDED.
3. BACK CUT FLAT TRIM TO PREVENT WARPING. DRILL WHERE NECESSARY TO PREVENT SPLITTING.
4. CONFIRM BLOCKING REQUIREMENTS WITH VENDORS PRIOR TO CLOSING UP ALL ASSEMBLIES.

DIVISION VII THERMAL & MOISTURE PROTECTION

A. VAPOR BARRIER:
1. PROVIDE AND INSTALL 6 MIL. POLYETHYLENE BELOW ALL REQUIRED PATCH AREAS AT SLAB ON GRADE CONDITIONS AND 4 MIL. POLYETHYLENE AT WALLS THAT RECEIVE BATT INSULATION.

B. ELASTOMERIC CRACK BRIDGING:
1. PROVIDE AND INSTALL ELASTOMERIC CRACK BRIDGING AS MANUFACTURED BY NATIONAL APPLIED CONSTRUCTION PRODUCTS, INC. 800-633-4622 OR APPROVED EQUAL.

C. BATT INSULATION:
1. PROVIDE AND INSTALL A MINIMUM OF R-13 FRICTION FIT (OR AS DICTATED BY CODE), FULL BATT INSULATION AS MANUFACTURED BY OWENS-CORNING FIBERGLASS OR EQUAL AT ALL EXTERIOR WALLS AND WHERE INDICATED IN THE DRAWINGS.

D. WATERPROOF MEMBRANE:
1. PROVIDE AND INSTALL A (M) 30 MIL. (MIN.) WATERPROOF MEMBRANE.
2. EXTEND A MINIMUM OF 6" UP VERTICAL SURFACES IN TOILET ROOMS OR AS REQUIRED.

E. FIRESTOPPING:
1. PROVIDE AND INSTALL UL TESTED FIRESTOPPING ASSEMBLIES AS ARE APPLICABLE FOR EACH CONDITION ENCOUNTERED. IN THE ABSENCE OF TESTED ASSEMBLIES, PROVIDE FIRESTOPPING ASSEMBLIES AS RECOMMENDED BY THE FIRESTOPPING SYSTEM MANUFACTURER'S STAFF ENGINEERS AND AS APPROVED BY AUTHORITIES HAVING JURISDICTION.
2. PROVIDE FIRESTOPPING MATERIALS AND THICKNESS AS REQUIRED TO MAINTAIN THE FIRE RATINGS OF THE ASSEMBLIES INTO WHICH THE MATERIALS ARE INSTALLED.
3. STRICTLY MATCH UL TESTED ASSEMBLIES.
4. INSTALL FIRESTOPPING WITHOUT GAPS AND VOIDS OF ANY KIND.
5. INSPECT FIRESTOPPING WORK AND REPAIR OR REPLACE WORK WHICH HAS BEEN DAMAGED, DISTURBED, OR REMOVED BEFORE FIRESTOPPING IS CONCEALED OR ENCLOSED.
6. PROVIDE ANCHORAGE ACCESSORIES AND OTHER COMPONENTS AS NEEDED TO PROVIDE COMPLETE, EFFECTIVE FIRESTOPPPING SYSTEMS COMPLYING WITH UL TESTED ASSEMBLIES.

F. FIRE CAULKING:
1. ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL.

G. ACOUSTICAL INSULATION:
1. PROVIDE AND INSTALL ASTM C665, UNFACED, 0.32 K-VALUE, WIDTHS TO COORDINATE WITH FRAMING FOR FRICTION FIL, THICKNESS SHOWN OR IF NOT SHOWN, FILL CAVITY.

DIVISION VIII DOORS & WINDOWS

A. DOORS AND HARDWARE:
1. FURNISH AND INSTALL ALL DOORS, FRAMES, HARDWARE AND RELATED PARTS AND MATERIALS AS INDICATED ON DRAWINGS AND RESPONSIBILITY SCHEDULE.
2. HOLLOW METAL FRAMES: K.D. MINIMUM 16 GA. SIZE, SHAPE AND PARTITION TYPE PER DOOR SCHEDULE.
3. LABELED DOORS: PROVIDE U.L. LABEL DOORS AND FRAMES PER APPLICABLE STATE AND LOCAL BUILDING CODES, WHERE REQUIRED.
4. FABRICATE AND ERECT TRUE, PLUMB, AND SQUARE AS SPECIFIED AND DETAILED AND AS PER MANUFACTURER'S RECOMMENDATIONS.
5. AUTOMATIC SLIDING DOORS, ALUMINUM DOORS AND FRAMES WITH SIDELIGHTS, TRANSOM AND ACTIVE DOOR LEAVES, OVERHEAD OPERATOR AND EMERGENCY BREAKOUT PER APPLICABLE BUILDING CODES.
6. SEE DOOR SCHEDULE FOR SPECIFIC INFORMATION AND HARDWARE.

DIVISION VIII DOORS & WINDOWS (CONT.)

B. ACCESS DOORS:
1. PROVIDE FLUSH TYPE METAL DOORS MIN 16" X 20", OR AS SPECIFIED ON THE DRAWINGS, MANUFACTURED FORM # 16 GA. STEEL, COMPLETE WITH FLUSH FLANGE TYPE FRAMES MANUFACTURED FROM # 16 GA. STEEL, WITH ANCHORS.
2. INSTALL ACCESS DOORS WHERE NECESSARY TO PROVIDE ACCESS TO CONCEALED VALVES, AND OTHER EQUIPMENT REQUIRING SERVICE OR INSPECTION AND AS APPROVED BY THE TENANT'S PROJECT MANAGER.
3. ACCESS DOORS SHALL BE SUITABLE FOR INSTALLATION IN THE SPECIFIED WALL AND CEILING MATERIALS.
4. ACCESS DOORS LOCATED IN FIRE-RATED WALLS, FLOORS, CEILING-FLOOR OR CEILING-ROOF ASSEMBLIES SHALL BE UL FIRE RATED LISTED AND LABELED.
5. FINISH TO MATCH ADJACENT SURFACES.
6. PROVIDE KEYED LOCK AT ALL PANELS IN COMMON AREAS.

C. STOREFRONT:
1. FURNISH ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF FRAMING AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. ALL GLASS FRAMING SHALL BE SET IN CORRECT LOCATIONS AS SHOWN IN THE DETAILS AND SHALL BE LEVEL, SQUARE, PLUMB, AND IN ALIGNMENT WITH OTHER WORK IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
3. PROTECT STOREFRONT FROM DAMAGE BEFORE, DURING, AND AFTER INSTALLATION.

DIVISION IX FINISHES

A. GYPSUM DRYWALL
1. INSTALL ALL GYPSUM DRYWALL SYSTEMS COMPLETE WITH PARTITION FRAMING, CEILING SUSPENSION SYSTEMS, AND RELATED ACCESSORIES, PARTS, MATERIALS, ETC. AS SHOWN ON DRAWINGS AND AS SPECIFIED. INSTALL ALL MATERIALS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
2. GYPSUM DRYWALL: U.S. GYPSUM 5/8" THICK FIRE CODE SHEETROCK (TYPE "X") PANELS OF STANDARD QUALITY OR EQUAL.
3. FASTENERS: DRYWALL SCREWS OF PROPER SIZE AND TYPE.
4. ACCESSORIES AND TRIM: U.S. GYPSUM BOARD OR GOLD BOND SYSTEM OF COMPONENTS AND PERFORATED TAPE. ALL METAL TRIM SHALL BE PERFORATED FLANGE TYPE FOR COMPOUND FINISH.
5. PROVIDE A LEVEL 4 FINISH PRIOR TO THE APPLICATION OF THE FINAL FINISHES. REFER TO THE GYPSUM ASSOCIATION GUIDELINES FOR A DESCRIPTION OF THE DESIRED LEVEL.

B. CEILING SYSTEMS
1. FURNISH AND INSTALL CEILING SYSTEMS COMPLETE WITH SUSPENSION SYSTEM AND RELATED ACCESSORIES AS INDICATED ON DRAWINGS.
2. ALL LIGHT GAUGE METAL FRAMING AND CEILING SUSPENSION COMPONENTS FOR SOFFITS, GYPSUM BOARD AND LAY-IN CEILINGS SHALL BE ANCHORED TO THE STRUCTURAL JOISTS AND BEAMS ONLY. PROVIDE AND INSTALL ANY ADDITIONAL FRAMING REQUIRED.
3. SUSPENSION SYSTEMS SHALL BE ADEQUATE TO SUPPORT LIGHTING FIXTURES, CEILING GRILLES, DIFFUSERS, AND OTHER TYPICAL CEILING ACCESSORIES.
4. PROVIDE SYSTEM COMPONENTS FROM SINGLE MANUFACTURER.
5. INSTALL CEILING AND SUSPENSION SYSTEMS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE BUILDING CODE REQUIREMENTS. FINISHED CEILING SHALL BE LEVEL, WITH JOINTS SNUG AND SQUARE, AND IN PERFECT CONDITION.
6. MATERIALS AND FINISHES:
a. REFER TO REFLECTED CEILING PLAN FOR SPECIFIED MATERIALS AND FINISHES.
b. LEAVE ONE CASE OF CEILING TILES FOR LATER REPLACEMENT.

C. PAINTING AND FINISHING
1. PROVIDE A SATISFACTORY FINISH THROUGHOUT, UNLESS SPECIFICALLY STATED OTHERWISE.
2. USE ONLY THE PAINT AND RELATED MATERIALS SPECIFIED.
3. COVER ALL SURFACES THOROUGHLY. IF THE NUMBER OF COATS SPECIFIED DOES NOT ACCOMPLISH THE INTENT, THEN APPLY ADDITIONAL COATS OF SPECIFIED MATERIAL TO GIVE SATISFACTORY COVERAGE. SEE FINISH SCHEDULE.
4. PREPARE BY CLEANING ALL SURFACES FREE OF LOOSE DIRT AND DUST. PREPARE ALL METAL SURFACES IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN SPECIFICATIONS.
5. PAINTED DRYWALL TO RECEIVE ONE COAT LATEX PRIMER AND TWO COATS OF SPECIFIED PAINT. TINT PRIMER TO APPROXIMATE SHADE OF THE FINAL COAT TO PRODUCE AN EVEN RESULT IN THE FINISH COAT. DRY ALL COATS THOROUGHLY BEFORE APPLYING SUCCEEDING COATS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR RE-COAT TIME.
6. PUTTY ALL NAIL HOLES, COUNTER SUNK SCREWS, BOLTS, CRACKS, ETC. BEFORE APPLYING FINISH.
7. SAND ALL WOOD SURFACES SMOOTH AND EVEN BEFORE APPLYING FINISH.
8. BEFORE STARTING FINISH WORK, REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS, OR PROVIDE AMPLE PROTECTION FOR SUCH ITEMS.
9. PAINT ALL REGISTERS, LOUVERS, GRILLES, EMERGENCY LIGHTS, SPEAKERS, TRIM LIGHTS, EXPOSED PIPING, ACCESS DOORS, VENTS, FIRE EXTINGUISHER CABINETS, EQUIPMENT MOUNTING BOARDS, ETC. UNLESS FACTORY FINISHED. PAINT TO MATCH ADJACENT WORK UNLESS OTHERWISE NOTED OR DIRECTED.
10. MAKE FINISH WORK UNIFORM OR APPROVED FINISH, SMOOTH, FREE OF RUNS, SAGS, AND DEFECTIVE BRUSHING AND CLOGGING. MAKE EDGES OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN WITHOUT OVERLAPPING.

D. CARPET:
1. REFER TO RESPONSIBILITY SCHEDULE AND FINISH SCHEDULE.
2. CARPET AND ADHESIVE SHOULD BE CONDITIONED ON SITE AT A TEMPERATURE OF NO LESS THAN 60 DEGREES. ALL SUBFLOORS MUST BE SMOOTH AND LEVEL, FREE OF DIRT, WAX AND OLD ADHESIVES.
3. PROVIDE PREMIUM MULTI PURPOSE 1000 ADHESIVE TO ASSURE FULL WARRANTY PROTECTION IN ALL DIRECT GLUE APPLICATIONS. USE A MINIMUM OF 1/8 X 1/8 X 1/8 INCH V NOTCHED TROWEL FOR APPLICATION. ONE GALLON WILL HANDLE 10-15 YARDS OF CARPET. A DRYING TIME OF 30-40 MINUTES IS CRITICAL BEFORE PLACING THE CARPET INTO THE ADHESIVE.
4. PROVIDE AND INSTALL TRANSITION STRIPS. TRANSITION STRIPS MUST BE NEW MATERIALS AND MUST CONFORM TO ALL CODE REQUIREMENTS AND INDUSTRY QUALITY STANDARDS.
5. COMPLETED INSTALLATION TO BE FREE OF STAINS OR SNAGS DUE TO CONSTRUCTION WORK.

E. RESILIENT SHEET FLOORING:
1. REFER TO RESPONSIBILITY SCHEDULE AND FINISH SCHEDULE
2. ALL EDGE CONDITIONS AT TRANSITIONS TO BE FLOATED UP FOR SMOOTH EVEN TRANSITION.
3. ALL SUBFLOORS TO BE MOISTURE TESTED AND RESULTS COMPARED TO MANUFACTURERS RECOMMENDED INSTALLATION GUIDELINES. ANY PROBLEMS DUE TO MOISTURE TESTING TO BE REPORTED TO TENANT'S REPRESENTATIVE IMMEDIATELY.
4. RESILIENT SHEET FLOORING WITH INTEGRAL 6" HIGH, RADIUSED COVE BASE. SEE FINISH SCHEDULE.
5. FILL ALL CRACKS, JOINTS, ETC., IN SUB-FLOOR WITH CRACK FILLER APPROVED BY FLOORING MANUFACTURER,
6. INSTALL ALL MATERIALS WITH WEATHERPROOF TYPE ADHESIVES AS RECOMMENDED BY FLOORING MANUFACTURER FOR MATERIALS AND SURFACE INVOLVED.

DIVISION IX FINISHES (CONT.)

F. VINYL COMPOSITION TILE:
1. REFER TO RESPONSIBILITY SCHEDULE AND FINISH SCHEDULE
2. ALL EDGE CONDITIONS AT TRANSITIONS TO BE FLOATED UP FOR SMOOTH EVEN TRANSITION.
3. ALL SUBFLOORS TO BE MOISTURE TESTED AND RESULTS COMPARED TO MANUFACTURERS RECOMMENDED INSTALLATION GUIDELINES. ANY PROBLEMS DUE TO MOISTURE TESTING TO BE REPORTED TO TENANT'S REPRESENTATIVE IMMEDIATELY.
4. 1/8" X 12" X 12" VINYL RESILIENT TILES WITH 4" HIGH X 1/8" THICK, TOP-SET, STRAIGHT VINYL BASE (PRE FORMED CORNERS ARE REQUIRED). SEE FINISH SCHEDULE.
5. FILL ALL CRACKS, JOINTS, ETC., IN SUB-FLOOR WITH CRACK FILLER APPROVED BY FLOORING MANUFACTURER,
6. SUB-FLOOR TO BE PROPERLY PREPPED, SMOOTH, & LEVEL TO WITHIN ±1/8" OVER 10'-0". NO RIDGES OR DEPRESSIONS.
7. INSTALL ALL MATERIALS WITH WEATHERPROOF TYPE ADHESIVES AS RECOMMENDED BY FLOORING MANUFACTURER FOR MATERIALS AND SURFACE INVOLVED.

G. FIBERGLASS REINFORCED PANELS 1/8":
1. REFER TO RESPONSIBILITY SCHEDULE AND FINISH SCHEDULE.
2. PROVIDE AND INSTALL FIBERGLASS REINFORCED PANELS ON SURFACES AS SHOWN ON PLANS.
3. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

H. WALK-OFF MAT
1. REFER TO RESPONSIBILITY SCHEDULE
2. TENANT TO PROVIDE
3. (ROLL-UP TYPE)

DIVISION X SPECIALTIES

A. LAVATORY FIXTURES:
1. REFER TO MECHANICAL DRAWINGS.

B. LAVATORY ACCESSORIES:
1. REFER TO ARCHITECTURAL DRAWINGS.
2. INSTALL IN-WALL BLOCKING AS REQUIRED TO PROVIDE ADEQUATE SUPPORT.
3. INSTALL ACCESSORIES OVER FINISHED WALL SURFACE.

C. SIGNS/SIGNAGE:
1. REFER TO ELECTRICAL PLANS.
2. ALL TEMPORARY SIGNS AND BANNERS ARE PROVIDED BY OTHERS. INSTALL ALL TEMPORARY SIGNS AND BANNERS PER OWNER'S DIRECTION.
3. STOREFRONT SIGN PROVIDED BY OTHERS.
4. COORDINATE INSTALLATION WITH TENANT'S VENDOR.

DIVISION XI EQUIPMENT

A. RECEIVE AND INSTALL PER MANUFACTURER'S INSTRUCTION ALL EQUIPMENT AND FIXTURES.

B. AUDIO SYSTEM
1. REFER TO ELECTRICAL PLANS.
2 PROVIDED BY OTHERS. COORDINATE INSTALLATION WITH TENANT'S VENDOR.

DIVISION XII FURNISHINGS

A. REFER TO THE RESPONSIBILITY SCHEDULE.

B. RECEIVE, ASSEMBLE AND PLACE OFFICE AND NON-SALES EQUIPMENT AND FIXTURES. REFER TO RESPONSIBILITY SCHEDULE.

C. RECEIVE, ASSEMBLE AND PLACE/INSTALL ALL SALES AREA FIXTURES.

DIVISION XIII SPECIAL CONSTRUCTION

A. NO ANTICIPATED WORK UNDER THIS SECTION. CONFIRM WITH TENANT'S REPRESENTATIVE.

DIVISION XIV CONVEYING SYSTEMS

A. NO ANTICIPATED WORK UNDER THIS SECTION. CONFIRM WITH TENANT'S REPRESENTATIVE.

DIVISION XV MECHANICAL

A. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS.

DIVISION XVI ELECTRICAL

A. REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATIONS.

NOTE:
NOT ALL SPECIFICATIONS ARE USED. REFER TO PROJECT SPECIFIC DRAWINGS FOR APPLICABILITY.

PartyCity
25 Green Pond Road
Rockaway, NJ 07866

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REVISIONS

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PartyCity
STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE. CHINO, CA 91710

LDG
Larson Design Group®
1000 Commerce Park Dr
Suite 201
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PHONE 570.323.6603
FAX 570.323.9902
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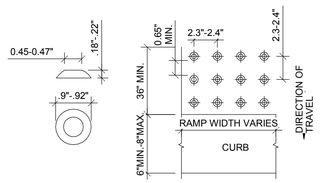
Architects Engineers Surveyors

It is in violation of the law for any person, unless acting under the direction of a licensed Architect, Engineer or Land Surveyor, to alter an item in any way. Plans, maps, specifications, studies, and reports not containing a red ink seal imprint on the cover sheet accompanied by and original signature by the licensed professional may have been fraudulently altered and shall not be considered an orginal copy.

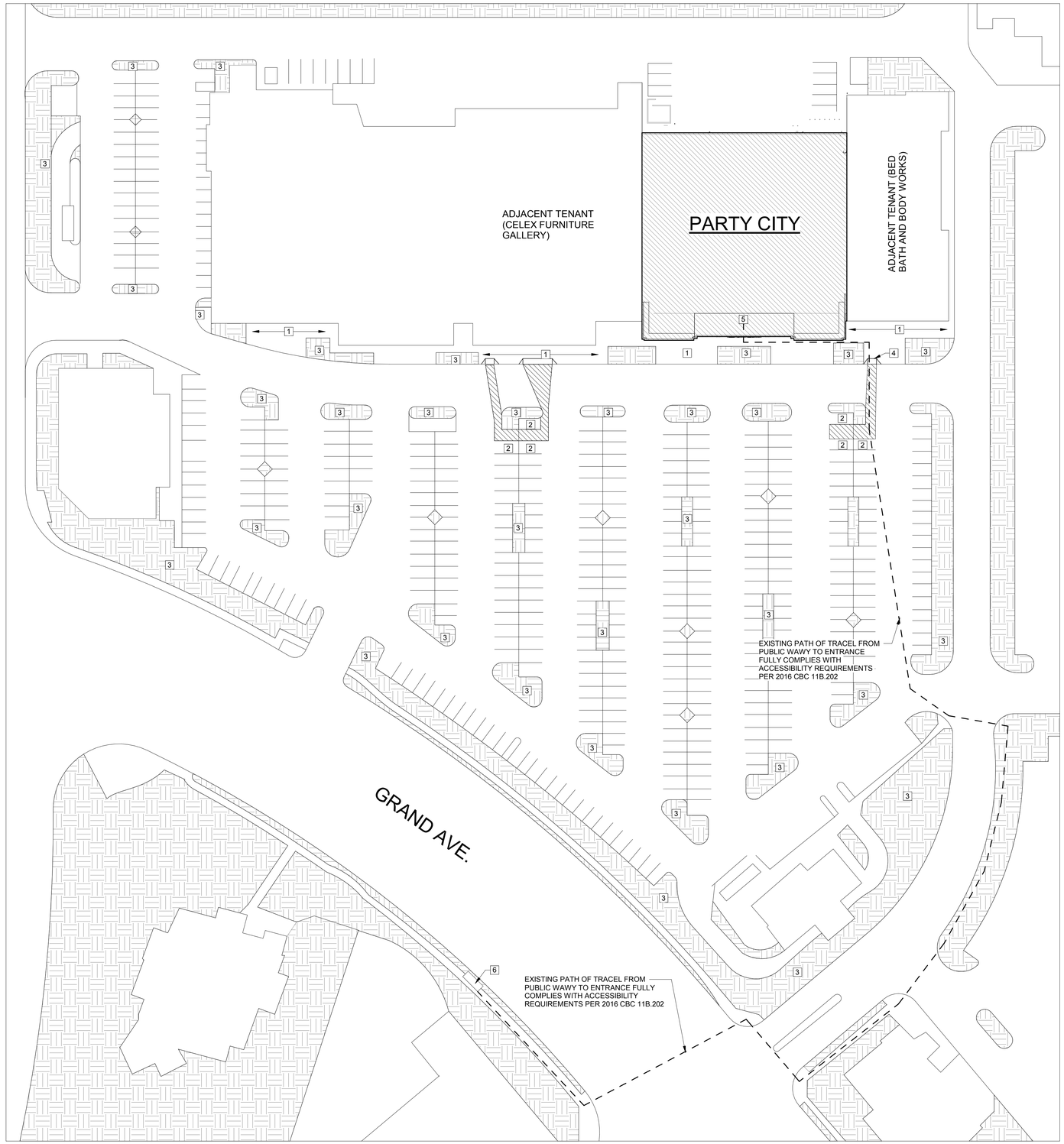
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APPV'D BY GWB
SHEET TITLE
SPECIFICATION / GENERAL NOTES
SHEET NO.
G4.0

KEYED NOTES [X]

1	EXISTING SIDEWALK TO REMAIN. FULLY COMPLIES WITH ACCESSIBILITY REQUIREMENTS PER 2016 CBC 11B.202.
2	EXISTING COMPLIANT PARKING STALL, SIGNAGE, AND SYMBOL TO REMAIN. FULLY COMPLIES WITH ACCESSIBILITY REQUIREMENTS PER 2016 CBC 11B.202 AND 11B.502.
3	EXISTING PLANTER TO REMAIN.
4	EXISTING CONCRETE CURB RAMP WITH DETECTABLE WARNING TO REMAIN. FULLY COMPLIES WITH ACCESSIBILITY REQUIREMENTS PER 2016 CBC 11B.406. REF: DETAIL 2/G5.0 FOR EXISTING DETECTABLE WARNING SURFACE.
5	EXISTING / PROPOSED SLOPES AND TRANSITION/THRESHOLD AT FRONT ENTRY COMPLIES WITH ACCESSIBILITY REQUIREMENTS PER 2016 CBC 11B.202.
6	EXISTING PUBLIC TRANSIT BUS STOP.



2 G5.0 DETECTABLE WARNINGS
SCALE: 3" = 1'-0"



1 G5.0 SITE PLAN
SCALE: 1" = 40'-0"

PLAN NORTH

Party City
25 Green Pond Road
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REVISIONS

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Party City
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CHINO SPECTRUM MARKETPLACE
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PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
SITE PLAN
SHEET NO.
G5.0

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 1 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	Chino	8.	Standards Version	Compliance2016
2.	CA Zip Code	91710	9.	Compliance Software (version)	EnergyPro 7.1
3.	Climate Zone	10	10.	Weather File	CHINO_722899_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	20,091 ft²	11.	Building Orientation (deg)	(S) 180 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	ExistingAlteration
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr) — **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	5.66	4.44	1.22	21.6%
Space Cooling	97.45	104.44	-6.99	-7.2%
Indoor Fans	63.02	63.02	--	0.0%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	20.16	20.16	--	0.0%
Indoor Lighting	80.43	54.44	25.99	32.3%
COMPLIANCE TOTAL	**266.72**	**246.50**	**20.22**	**7.6%**
Receptacle	61.52	61.52	0.0	0.0%
Process	0.67	0.67	0.0	0.0%
Other Ltg	--	--	--	--
TOTAL	**328.91**	**308.69**	**20.2**	**6.1%**

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 2 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
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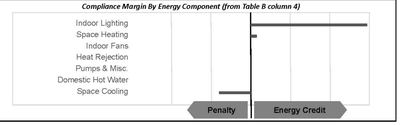
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Lighting: Check lighting
2nd	Space Heating: Check envelope and mechanical
3rd	Indoor Fans: Check envelope and mechanical
4th	Heat Rejection: Check envelope and mechanical
5th	Pumps & Misc.: Check mechanical
6th	Domestic Hot Water: Check mechanical
7th	Space Cooling: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 3 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component		Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☒	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens	☐	Performance	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performance	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 4 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 5 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment. — **Confirmed**

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☐ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 6 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
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Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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DRAWN BY BCW
APP'D BY GWB

SHEET TITLE
TITLE 24

SHEET NO.
G6.0

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	20,091 ft²	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	1,950 ft²	0 ft²	00.0%	☐	☐
East Wall	1,970 ft²	0 ft²	00.0%	☐	☐
South Wall	2,200 ft²	1,300 ft²	59.1%	☐	☐
West Wall	1,900 ft²	0 ft²	00.0%	☐	☐
Total:	**8,020 ft²**	**1,300 ft²**	**16.2%**	☐	☐
Roof	19,926 ft²	0 ft²	00.0%	☐	☐

J. FENESTRATION ASSEMBLY SUMMARY — § 110.6 — Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Pass	Fail
New Storefront Window	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	1216	0.71	0.73	0.77	A	☐	☐
New Storefront Doors	VerticalFenestration GlazedDoor MetalFraming	Default Performance	SiteBuilt	84	0.77	0.70	0.53	A	☐	☐

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY — § 120.7/ § 140.3 — Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Pass	Fail
Slab On Grade7	UndergroundFloor	19478	NA	0	NA	F-Factor: 0.730	E	☐	☐
Existing R-19 Roof to Rem9	Roof	19926	Wood	22	NA	U-Factor: 0.050	E	☐	☐
Tiltup Wall11	ExteriorWall	8020	NA	0	NA	U-Factor: 0.775	E	☐	☐
Metal Framed Demising Wall22	InteriorWall	50	NA	0	NA	U-Factor: 0.345	E	☐	☐
R-13 Wall42	InteriorWall	0	Wood	13	NA	U-Factor: 0.095	A	☐	☐

[1] *Status: N - New, A – Altered, E – Existing*

L. ROOFING PRODUCT SUMMARY — § 140.3 — Confirmed

1. Product Type	2. Product Density (lb/ft²)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
Existing R-19 Roof to Rem9	4.65104	0.08	0.75	NA	No	NA	☐	☐

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) — § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N) — Confirmed

1. Equip Name	2. Equip Type	3. System Type (Simple [2] or Complex [3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtu/h)	8. Total Cooling Output (kBtu/h)	9. Efficiency: Cooling	9. Efficiency: Heating	10. Acceptance Testing Required? (Y/N) [4]	11. Status[5]	Pass	Fail
Existing RTU Units x 6	SZAC (Packaged3Phase)	Simple	6	148	No	0	150	EER-10.8	AFUE-80.0	No	E	☐	☐
Toilets29	Exhaust ((null))	Simple	1	0	No	0	0	NA	NA	No	E	☐	☐
Fitting Rooms35	Exhaust ((null))	Simple	1	0	No	0	0	NA	NA	No	E	☐	☐

[1] *Dry System Equipment includes furnaces, air handling units, heat pumps, etc.*
[2] *Simple Systems must complete NRCC-CXR-03-E commissioning design review form*
[3] *Complex Systems must complete NRCC-CXR-04-E commissioning design review form*
[4] *A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS*
[5] *Status: N - New, A – Altered, E – Existing*

	Wet System Equipment [1]							Pumps					Confirmed	
12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status[2]	Pass	Fail
Existing water heater2	Storage	1	10	15	EF: 0.950	NA	NA	NA	NA	NA	No	E	☐	☐

[1] *Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.*
[2] *Status: N - New, A – Altered, E – Existing*

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F, "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] — § 140.4 — Confirmed

1. Equip Name	2. Outside Air CFM	3. Supply Fan CFM	3. Supply Fan HP	3. Supply Fan BHP	3. Supply Fan TSP (inch WC)	3. Supply Fan Control	4. Return Fan CFM	4. Return Fan HP	4. Return Fan BHP	4. Return Fan TSP (inch WC)	4. Return Fan Control	5. Economizer Type (if present)	Pass	Fail
Existing RTU Units x 6	713	5000	2.000	2.000	1.52	ConstantVolume	NA	NA	NA	NA	NA	DifferentialEnthalpy	☐	☐

[1] *Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section*

O. EQUIPMENT CONTROLS — § 120.2 — Confirmed

1. Equip Name	2. Equip Type	3. Controls	Pass	Fail
Existing RTU Units x 6	SZAC	1 Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler	☐	☐
Toilets29	Exhaust	No DCV Controls Economizer type not properly specified No Supply Air Temp. Control No Optimum Start No Evaporative Cooler	☐	☐
Fitting Rooms35	Exhaust	No DCV Controls Economizer type not properly specified No Supply Air Temp. Control No Optimum Start No Evaporative Cooler	☐	☐
1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY — § 120.4/ § 140.4(l) — Confirmed

		Dry System Distribution				Pass	Fail
1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts: Insulation R-Value	5. Ducts: Location		
Existing RTU Units x 6	SZAC	No	No	4.2	Conditioned	☐	☐

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more Info)[3] — § 140.6 — Confirmed

1. Occupancy Type [1,4]	2. Conditioned Floor Area [2] (ft²)	3. Installed Lighting Power (Watts)	4. Lighting Control Credits (Watts)	5. Additional (Custom) Allowance: Area Category Footnotes (Watts)	5. Additional (Custom) Allowance: Tailored Method (Watts)	Pass	Fail
Commercial and Industrial Storage Areas (conditioned or unconditioned)	6,700	3,120	0	0	0	☐	☐
Corridors, Restrooms, Stairs, and Support Areas	418	195	0	0	0	☐	☐
Kitchen, Commercial Food Preparation	75	39	0	0	0	☐	☐
Locker/Dressing Room	145	117	0	0	0	☐	☐
Office (250 square feet in floor area or less)	90	39	0	0	0	☐	☐
Retail Merchandise Sales, Wholesale Showroom	12,663	9,835	0	0	0	☐	☐
Building Totals:	**20,091**	**13,345**	**0**	**0**	**0**		

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*

[2] *Lighting information for existing spaces modeled is not included in the table*
[3] *Multiple entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] — § 130.0

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)								Confirmed	
Installed Watts (Conditioned)									
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined: CEC Default from NA8	How Wattage is Determined: According to §130.0(c)	Total Number Luminaires	Installed Watts	Pass	Fail
A	A Fixture LED	65	No	Yes	48	3,120	☐	☐
C	C Fixture (4' LED)	39	Yes	No	11	429	☐	☐
D	D Fixture (79w LED)	79	Yes	No	124	9,796	☐	☐

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES — § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS — § 140.9

Space Name	Exhaust Hood Style	Exhaust Hood Duty	Exhaust Length (ft)	Exhaust Flow Rate (cfm)	Confirmed Pass	Confirmed Fail
S-7-Break Room		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS — § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS — § 140.9

This Section Does Not Apply

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET

09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE. CHINO, CA 91710

Party City

LDG
Larson Design Group
1000 Commerce Park Dr
Suite 201
Williamsport, PA 17701
PHONE 570.323.6603
FAX 570.323.9902
www.larsondesigngroup.com
Architects Engineers Surveyors

PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB

SHEET TITLE
TITLE 24

SHEET NO.
G6.1

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 13 of 21
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Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

T. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
2-Office	150	0	150	2091
7-Break Room	150	32.5	150	2150.25

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	--	--	67.8	53.4	14.4
Space Cooling	45.1	49.0	-3.9	--	--	--
Indoor Fans	54.6	54.6	0.0	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	17.2	17.2	0.0	--	--	--
Indoor Lighting	65.8	44.5	21.3	--	--	--
COMPLIANCE TOTAL	182.7	165.3	17.4	67.8	53.4	14.4
Receptacle	50.2	50.2	0.0	--	--	--
Process	0.7	0.7	0.0	--	--	--
Other Ltg	--	--	--	--	--	--
TOTAL	233.6	216.2	17.4	67.8	53.4	14.4

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 14 of 21
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Madison	Signature:
Company: ENERGY CODE WORKS	
Address: 2600 Michelson Drive Suite 1700	Signature Date: 8/28/2017
City/State/Zip: Irvine Ca 92612	CEA Identification (If applicable):
Phone: (949) 240-1867	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Seree Yenjai , PE	Signature:
Company: JYC Service	Date Signed: 9/5/17
Address: 8780 19th St. #401	Declaration Statement
City/State/Zip: Alta Loma, CA 91701	Type: Title: Civil Engineer / License #: C73151
Phone: (626) 241-8551	
Responsible Lighting Designer Name: Peter A. Leptuch, PE	Signature:
Company: Peter A. Leptuch, PE	Date Signed: 09/01/17
Address: 1236 Golden Eagle Ct.	Declaration Statement Type:
City/State/Zip: Aubrey, TX 76227	Title: P.E. / License #: E19072
Phone: (940) 735-5127	
Responsible Mechanical Designer Name: Matthew P. Nealis, PE	Signature:
Company: Larson Design Group	
Address: 1000 Commerce Park Drive #201	Date Signed: 9/5/17
City/State/Zip: Williamsport PA 17701	Declaration Statement Type:
Phone: (570) 323-6603	Title: Mechanical Engineer / License #: M36227

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 15 of 21
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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed Pass	Confirmed Fail
Slab On Grade7	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
Existing R-19 Roof to Rem9	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 3.5in., R-22 Gypsum Board - 1/2 in.		☐	☐
Tiltup Wall11	ExteriorWall	Concrete - 140 lb/ft3 - 6 in.		☐	☐
Metal Framed Demising Wall22	InteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Air - Wall - 3 1/2 in. Gypsum Board - 1/2 in.		☐	☐
R-13 Wall42	InteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status[1]	Confirmed Pass	Confirmed Fail
Metal Door15	MetalUninsulatedDoubleLayerDoor	DefaultPerformance	Swinging	42	0.700	A	☐	☐

[1] *Status: N - New, A – Altered, E – Existing*

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)* Confirmed

CONDITIONED ZONE NAME	1. DESIGN AIR FLOWS: HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DCC CONTROL (Y/N)	2. VENTILATION (§ 120.1): VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	RECD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(c) (Y/N)	Pass	Fail
1-Stock Room	Existing RTU Units x 6	1,667	NA	NA	NA	NA	N	Existing RTU Units x 6	6,700	NA	7	150.0	1,005	1,005	NA	N	NA	☐	☐
2-Office	Existing RTU Units x 6	22	NA	NA	NA	NA	N	Existing RTU Units x 6	90	NA	0	30.0	14	14	NA	N	NA	☐	☐
3-Hallways	Existing RTU Units x 6	65	NA	NA	NA	NA	N	Existing RTU Units x 6	260	NA	1	30.0	39	39	NA	N	NA	☐	☐
4-Toilets	Existing RTU Units x 6	39	NA	NA	NA	NA	N	Existing RTU Units x 6	158	NA	1	30.0	24	24	NA	N	NA	☐	☐
5-Fitting Rooms	Existing RTU Units x 6	36	NA	NA	NA	NA	N	Existing RTU Units x 6	145	NA	1	15.0	22	22	NA	N	NA	☐	☐
6-Sales Area	Existing RTU Units x 6	3,151	NA	NA	NA	NA	N	Existing RTU Units x 6	12,663	NA	211	15.0	3,165	3,165	NA	Y	NA	☐	☐
7-Break Room	Existing RTU Units x 6	19	NA	NA	NA	NA	N	Existing RTU Units x 6	75	NA	0	60.0	11	11	NA	N	NA	☐	☐
								TOTAL	20,091		NA		NA	NA	NA			☐	☐

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 17 of 21
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Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1. System ID	2. System Type	3. Qty	4. Rated Capacity (kBtuh) Heating	4. Rated Capacity (kBtuh) Cooling	5. Economizer	6. Zone Name	7. Airflow (cfm) Design	7. Airflow (cfm) Min.	7. Airflow (cfm) Min. Ratio	8. Fan BHP	8. Fan Cycles	8. Fan ECM Motor	Confirmed Pass	Confirmed Fail
7-Break Room-Trm	Uncontrolled	6	NA	NA	NA	7-Break Room	19	NA	NA	NA	NA	☐	☐	☐
6-Sales Area-Trm	Uncontrolled	6	NA	NA	NA	6-Sales Area	3151	NA	NA	NA	NA	☐	☐	☐
5-Fitting Rooms-Trm	Uncontrolled	6	NA	NA	NA	5-Fitting Rooms	36	NA	NA	NA	NA	☐	☐	☐
4-Toilets-Trm	Uncontrolled	6	NA	NA	NA	4-Toilets	39	NA	NA	NA	NA	☐	☐	☐
3-Hallways-Trm	Uncontrolled	6	NA	NA	NA	3-Hallways	65	NA	NA	NA	NA	☐	☐	☐
2-Office-Trm	Uncontrolled	6	NA	NA	NA	2-Office	22	NA	NA	NA	NA	☐	☐	☐
1-Stock Room-Trm	Uncontrolled	6	NA	NA	NA	1-Stock Room	1667	NA	NA	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY Confirmed

1. System ID	2. Zone Name	3. Qty	4. CFM	5. Motor BHP	6. Total Static Pressure (in H20)	Pass	Fail
Toilets29	4-Toilets	1	150	0.200	5.08	☐	☐
Fitting Rooms35	5-Fitting Rooms	1	150	0.200	5.08	☐	☐

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)* § 110.3 Confirmed

1. DHW Name	2. Heater Element Type	3. Tank Type	4. Qty	5. Tank Vol (gal)	6. Rated Input (kBtu/h)	7. Efficiency	8. Tank Insulation R-value (Int/Ext)	9. Pilot Energy (Btu/h)	10. Standby Loss	11. Heat Pump Type	12. Tank Location or Ambient Condition	Pass	Fail
Existing water heater2	Electricity	Storage	1	10	15	EF: 0.950	NA		0.027	NA	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 18 of 21
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Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed Pass	Confirmed Fail
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve Leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS		
1 - SHW	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Existing RTU Units x 6	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Toilets29	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Fitting Rooms35	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET

09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

Party City
STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE. CHINO, CA 91710

LDG
Larson Design Group
1000 Commerce Park Dr
Suite 201
Williamsport, PA 17701
PHONE 570.323.6603
FAX 570.323.9902
www.larsondesigngroup.com
Architects Engineers Surveyors

PROTO NO. 1703

PROJECT NO. 8099-196

DRAWN BY BCW

APP'D BY GWB

SHEET TITLE

TITLE 24

SHEET NO.

G6.2

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 19 of 21
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Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — **§ 140.6**

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)				Control Credit Calculation			Y If Acceptance Test Required	Confirmed	
Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
S-1-Stock Room	Commercial and Industrial Storage Areas (conditioned or unconditioned)	- none specified -	1		0.00	0		☐	☐
S-2-Office	Office (250 square feet in floor area or less)	- none specified -	1		0.00	0		☐	☐
S-3-Hallways	Corridors, Restrooms, Stairs, and Support Areas	- none specified -	1		0.00	0		☐	☐
S-4-Toilets	Corridors, Restrooms, Stairs, and Support Areas	- none specified -	1		0.00	0		☐	☐
S-5-Fitting Rooms	Locker/Dressing Room	- none specified -	1		0.00	0		☐	☐
S-6-Sales Area	Retail Merchandise Sales, Wholesale Showroom	- none specified -	1		0.00	0		☐	☐
S-6-Sales Area	Retail Merchandise Sales, Wholesale Showroom	- none specified -	1		0.00	0		☐	☐
S-7-Break Room	Kitchen, Commercial Food Preparation	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) — **§ 130.1**

This Section Does Not Apply

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 20 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — **§ 140.6**

Total watts: 0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) — **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed Pass	Confirmed Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces

Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed Pass	Confirmed Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed Pass	Confirmed Fail
0	0	0	0	0	☐	☐

5. Wall Display

This Section Does Not Apply

Project Name:	Party City Store #427	NRCC-PRF-01-E	Page 21 of 21
Project Address:	3850 Grand Ave. Chino 91710	Calculation Date/Time:	15:33, Mon, Aug 28, 2017
Compliance Scope:	ExistingAlteration	Input File Name:	207764.cibd16x

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) — **§ 130.4**

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor			Outdoor	Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A		
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	Pass	Fail
Occupant Sensors	4	☒	☐	☐	☐	☐	☐
Automatic Time Switch	1	☒	☐	☐	☐	☐	☐
Automatic Daylighting	1	☐	☒	☐	☐	☐	☐
Demand Responsive	0	☐	☐	☐	☐	☐	☐
Outdoor Controls	0	☐	☐	☐	☐	☐	☐

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name	Date
Party City Store #427	*8/28/2017*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Metal Building**- The weighted average U-factor of the roof assembly shall not exceed 0.098. **Wood Framed and Others**- The weighted average U-factor of the roof assembly shall not exceed 0.075.
§120.7(b):	The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: **Metal Building**- The weighted average U-factor of the wall assembly shall not exceed 0.113. **Metal Framed**- The weighted average U-factor of the wall assembly shall not exceed 0.151. **Light Mass Walls**- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. **Heavy Mass Walls**- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. **Wood Framed and Others**- The weighted average U-factor of the wall assembly shall not exceed 0.110. **Spandrel Panels and Opaque Curtain Wall**- The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. **Demising Walls**-. The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Raised Mass Floors**- Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. **Other Floors**-The weighted average U-factor of the floor assembly shall not exceed 0.071.

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PROTO NO. 1703

PROJECT NO. 8099-196

DRAWN BY BCW

APP'D BY GWB

SHEET TITLE

TITLE 24

SHEET NO.

G6.3

DEMO LEGEND

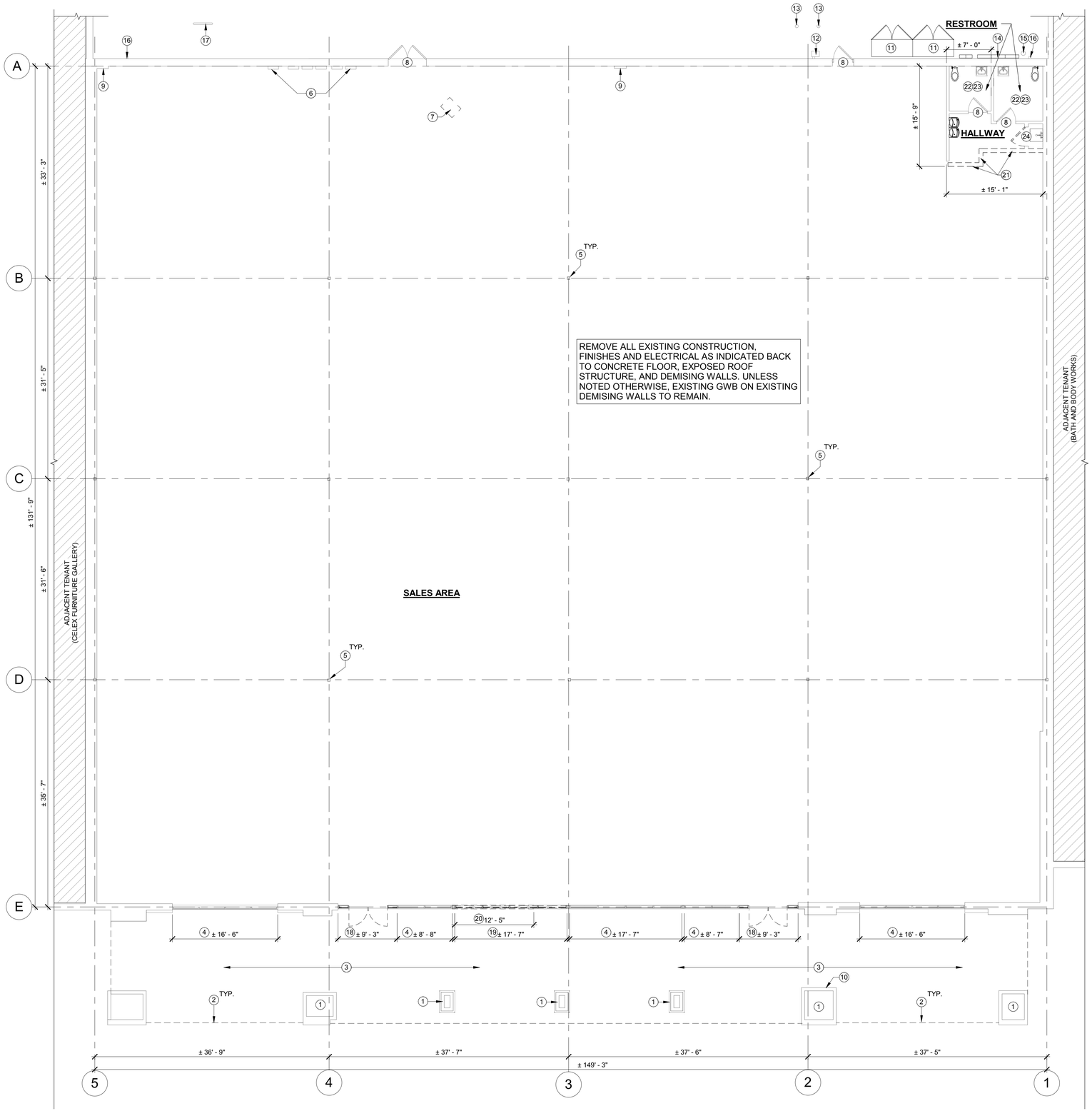
SYMBOL	DESCRIPTION
———	EXISTING WALLS TO REMAIN
- - - - -	EXISTING WALLS/FIXTURES TO BE REMOVED

DEMOLITION NOTES

A. CONTRACTOR BID TO BE BASED IN EXISTING CONDITIONS, CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE BEFORE BIDDING.
B. LEVEL FLOORS TO MATCH EXISTING SPACES THROUGHOUT NO GREATER THAN 1/8" DEVIATION OVER 10'-0"
C. G.C. TO REMOVE ANY & ALL EXISTING UNUSED FIXTURES, FURNITURE, EQUIPMENT, CASEWORK, LIGHTING, FINISHES, ETC. THAT ARE NOT REMOVED BY LANDLORD OR OTHERS. PREPARE ALL EXISTING SURFACES AS REQ'D FOR NEW SALES LAYOUT.
D. ALL DEMOLITION WORK INVOLVING MECHANICAL, ELECTRICAL, OR PLUMBING WORK MUST COMPLY WITH ALL APPLICABLE CODES IN REGARD TO THESE ITEMS.
E. CONTRACTOR IS TO PROTECT ALL EXISTING CONDITIONS THAT ARE TO REMAIN FROM DAMAGE DURING DEMOLITION PHASE OF WORK. ITEMS DAMAGED ARE TO BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
F. CONTRACTOR IS TO VERIFY WITH THE LANDLORD WHICH ITEMS TO BE REMOVED WILL REMAIN THE PROPERTY OF THE LANDLORD. DISPOSE OF OR STORE SUCH ITEMS AS DIRECTED.
G. G.C. TO REMOVE EXISTING FLOOR FINISH AND ADHESIVES AS REQUIRED AND PREPARE EXISTING FLOOR AS REQUIRED TO RECEIVE NEW FLOOR FINISH. PATCH, FILL, LEVEL;, AND GRIND CONCRETE SLAB AS REQUIRED TO PROVIDE A SMOOTH LEVEL SURFACE FOR APPLICATION OF NEW FINISHES. CONFIRM THAT ALL FLOORS THROUGHOUT ARE LEVEL, AT THE SAME ELEVATION FROM SPACE TO SPACE.
H. ALL "IN-FLOOR" DEVICES TO BE DEMOLISHED BY G.C., INCLUDING DRAINS, BOLTS, ELEC FLOOR BOXES, CONDUIT, AND WIRING. ALL FLOOR PATCHING REQUIRED DUE TO FLOOR DEMO TO BE BY THE G.C.
I. REMOVE EXISTING SLAT WALLS THROUGHOUT EXISTING SALES AREA. PATCH & REPAIR AS REQUIRED.
J. REMOVE ALL INTERIOR SIGNAGE & ASSOCIATED ITEMS. PATCH & REPAIR EXISTING FINISHES TO REMAIN.
K. REMOVE EXISTING LIGHTING, WIRING, CONDUITS, ETC. RE: ELECTRICAL
L. REMOVE ALL POWER POLES AND ALL OTHER OUTLETS, CONDUITS, AND WIRING BACK TO ELECTRICAL PANELS.
M. ALL EXISTING HVAC EQUIPMENT AND DUCTWORK TO REMAIN WITH MINOR MODIFICATIONS. COORDINATE HVAC DEMO
N. PATCH AND REPAIR ALL CONCRETE SLAB DAMAGE.
O. PATCH, REPAIR, AND PRIME COAT ALL EXISTING GWB TO REMAIN AND PREPARE FOR NEW FINISHES AS SCHEDULED.
P. G.C. TO PATCH AND REPAIR ALL CONSTRUCTION AND FINISHES TO REMAIN.

KEYED NOTES ⓧ

1	EXISTING FACADE COLUMNS TO REMAIN. NO WORK.
2	EXISTING FACADE OVERHANG. NO WORK.
3	EXISTING SIDEWALK TO REMAIN. NO WORK.
4	EXISTING STOREFRONT GLAZING TO REMAIN. PROTECT DURING DEMO AND CONSTRUCTION. CLEAN AND REPAIR AS NECESSARY TO BRING TO "LIKE-NEW" CONDITION.
5	EXISTING STRUCTURAL COLUMN TO REMAIN. REMOVE ALL COLUMN WRAPS BACK TO STEEL COLUMN. ANY/ALL HOLES IN COLUMN IN ORDER TO PRODUCE A SMOOTH SURFACE FOR PAINT.
6	EXISTING ELECTRICAL SERVICE AND PANELS TO REMAIN. REF: ELECTRICAL DRAWINGS.
7	EXISTING UNIT HEATER TO REMAIN. REF: MECHANICAL DRAWINGS.
8	EXISTING DOOR TO REMAIN. G.C. TO BRING TO "LIKE NEW" CONDITION.
9	EXISTING FURRED OUT ROOF DRAINS TO REMAIN. PATCH AND REPAIR DAMAGED GYP. AS NECESSARY/REQ'D.
10	EXISTING KNOX BOX TO REMAIN.
11	EXISTING ELECTRICAL SERVICE CABINETS TO REMAIN. REF: ELECTRICAL DRAWINGS
12	EXISTING GAS METER TO REMAIN. NO WORK.
13	EXISTING BOLLARD TO REMAIN NO WORK.
14	EXISTING EXTERIOR TELEPHONE BOARD TO REMAIN. REF: ELECTRICAL DRAWINGS.
15	EXISTING FIRE RISER. SPRINKLER WORK IS UNDER A DEFERRED SUBMITTAL.
16	EXISTING HOSE BIB TO REMAIN. REF: PLUMBING DRAWINGS.
17	EXISTING WATER METER TO REMAIN. REF: PLUMBING DRAWINGS.
18	REMOVE EXISTING DOUBLE ENTRY DOORS, FRAME, SIDELITES, AND ADJACENT STOREFRONT GLAZING. PATCH AND REPAIR FLOOR AND SOFFIT IN PREPARATION FOR NEW CONCRETE KNEEWALL AND GLAZING SYSTEM.
19	REMOVE SECTION OF STOREFRONT BETWEEN STEEL COLUMNS. PATCH AND REPAIR SOFFIT AND CONCRETE SILL IN PREPARATION FOR NEW GLAZING SYSTEM AND AUTO ENTRY DOORS. REF: A1.0
20	REMOVE PORTION OF CONCRETE KNEEWALL IN PREPARATION FOR NEW AUTO DOOR, PATCH AND REPAIR INTERIOR FLOOR AND SIDEWALK. NEW OPENING FLOOR TO BE FLUSH WITH EXISTING SIDEWALK.
21	G.C. TO DEMO EXISTING WALL/CONSTRUCTION AS WELL AS ALL COMPONENTS WITHIN THE INDICATED WALL. PATCH AND REPAIR ADJACENT WALLS AND FLOOR AS REQ'D.
22	REMOVE AND PROTECT EXISTING PLUMBING FIXTURES DURING DEMO AND CONSTRUCTION. CLEAN AND REPAIR FIXTURES TO "LIKE-NEW" CONDITION.
23	G.C. TO DEMO EXISTING TOILET ROOMS INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, AND ALL ACCESSORIES.
24	REMOVE DOOR, FRAME, AND ALL HARDWARE.



1 D1.0 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

Party City
25 Green Pond Road
Rockaway, NJ 07866

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PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
DEMOLITION PLAN
SHEET NO.
D1.0

FLOOR PLAN GENERAL NOTES

A. UPON POSSESSION OF THE PREMISES, DIMENSIONS OF SPACE SHALL BE VERIFIED. G.C. SHALL SUBMIT NOTED DISCREPANCIES TO THE ARCHITECT/ENGINEER, TENANT PROJECT MANAGER, AND REQUIRED VENDORS WITHIN 3 DAYS OF THE START OF CONSTRUCTION.

B. WHEN RE-USING EXISTING DRYWALL CONSTRUCTION, PATCH AND REPAIR WALLS AS NECESSARY TO ENSURE REQUIRED RATING. PATCH ALL VOIDS INCLUDING DECK FLUTES WITH NON-COMBUSTIBLE MATERIALS.

C. ALL PENETRATIONS AT EXISTING SLABS MUST BE APPROVED IN WRITING BY THE LANDLORD PRIOR TO THE COMMENCEMENT OF WORK. GENERAL CONTRACTOR SHALL ENSURE THAT ALL SLAB PENETRATIONS WITHIN THE TENANTS PREMISES ARE PROPERLY SEALED AND REMAIN WATERTIGHT TO PREVENT POSSIBLE DAMAGE.

D. ALL DIMENSIONS ON PLAN FOR NEW INTERIOR WALL LAYOUTS ARE FROM FINISHED WALL TO FINISHED WALL UNLESS NOTED OTHERWISE.

E. PATCH & FIRE STOP GYP. BD. PARTITIONS AS REQUIRED BY LOCAL CODES

F. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING ON THE CONSTRUCTION DOCUMENTS. DO NOT SCALE.

G. APPROVED FIRE EXTINGUISHERS SHALL BE FURNISHED AND INSTALLED BY GC AS REQUIRED BY LOCAL AUTHORITY.

H. PROVIDE & INSTALL BROWN PAPER COVERING APPLIED TO THE STOREFRONT GLAZING DURING MERCHANDISING.

I. ALL EXTERIOR WALLS TO HAVE A MINIMUM OF R-15 INSULATION VALUE.

J. VERIFY INTERIOR & EXTERIOR DIMENSIONS, NOTIFY ARCHITECT IMMEDIATELY WITH DISCREPANCIES.

K. REFER TO G5.0 (IF APPLICABLE) FOR SITE INFORMATION & REFERENCES.

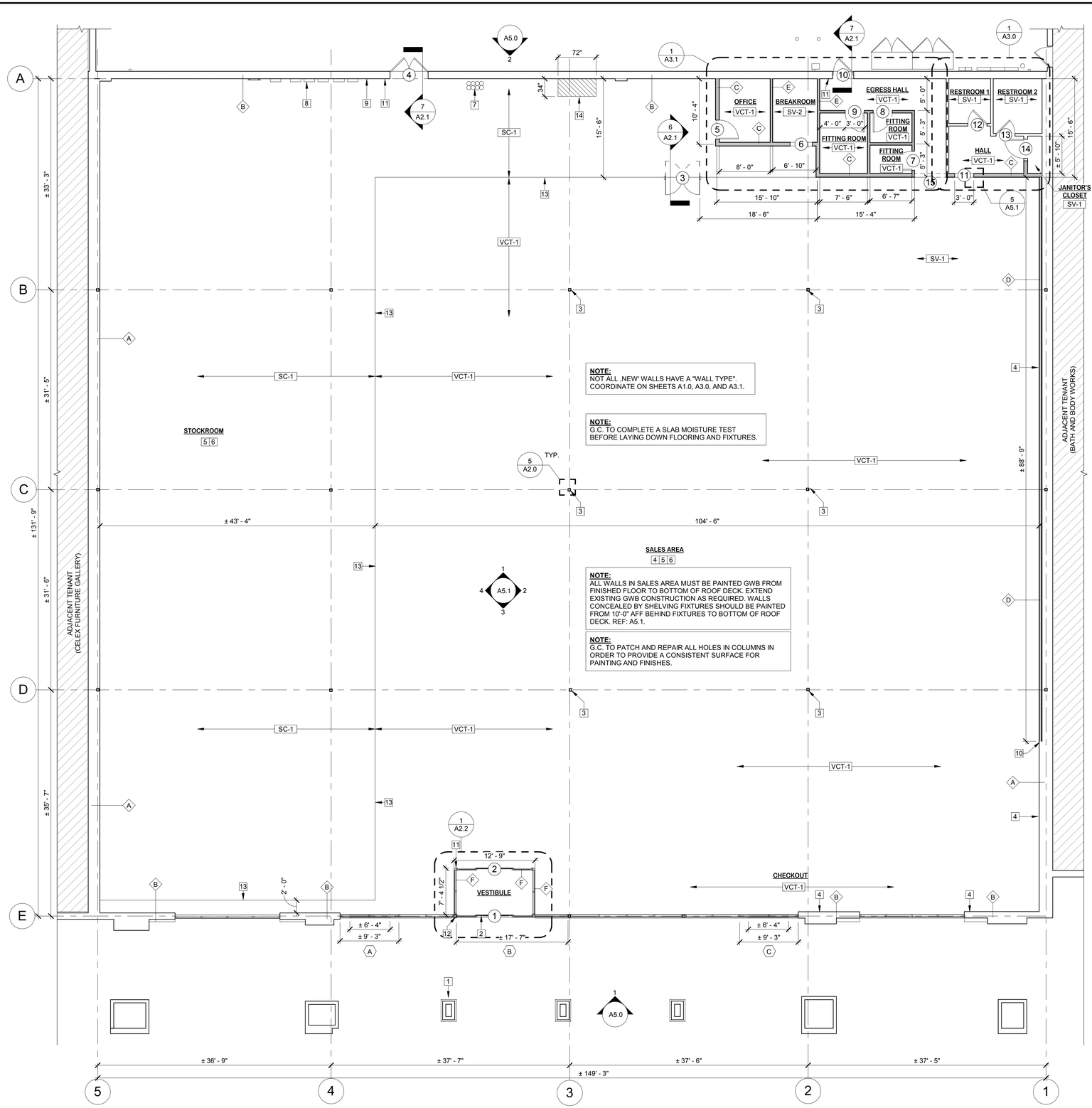
NOTE:
G.C. TO VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. PATCH & REPAIR EXISTING FINISHES AS REQ'D AND/OR SUPPLY NEW GWB AS REQ'D ABOVE AND BELOW CEILING LEVEL TO COVER ALL EXPOSED CMU. ENSURE THAT ALL WALLS IN SALES AREA ARE FLUSH WIITH ANY COLUMNS, BUMP OUTS, OR CHANGE IN PLANE FOR ATTACHMENT OF NEW SHELVING, REF: A7.0.

WALL LEGEND

SYMBOL	DESCRIPTION
	EXISTING DEMISING PARTITION
	NEW WALL CONSTRUCTION
	SOFFIT/BULKHEAD ABOVE.
A	WALL TYPE (SEE WALL TYPE SCHEDULE ON SHEET A2.0)
1	DOOR DESIGNATION (SEE DOOR SCHEDULE ON SHEET A2.1)
A	STOREFRONT DESIGNATION (SEE GLAZING SCHEDULE ON SHEET A2.1)

KEYED NOTES [X]

1	SINGLE GANG BOX MOUNTED IN WALL AT THIS LOCATION FOR KNOX BOX.
2	STORE ADDRESS TO BE CENTERED ABOVE ENTRANCE STOREFRONT W/ 6" VINYL PEEL/STICK WHITE LETTERS. MOUNT ON INTERIOR SIDE.
3	SALES AREA COLUMN SHALL HAVE STAINLESS STEEL COLUMN WRAPS. PAINT COL. P-2 ABOVE WRAP TO BOTTOM OF DECK, REFER TO 5/A2.0.
4	SALES AREA WALLS ARE REQUIRED TO BE FLUSH.
5	G.C. TO FURNISH & INSTALL NEW FIRE EXTINGUISHERS AS REQ'D BY LOCAL CODES. WHEN MOUNTING ADJACENT TO DOOR OPENING, MAINTAIN 12" CLEAR TO DOOR OPENING FOR ADA COMPLIANCE. PREFERRED LOCATIONS SHOWN. FINAL LOCATION, MOUNTING HEIGHT, & QUANTITY BY FIRE INSPECTOR. G.C. TO VERIFY FIRE MARSHALL REQUIREMENTS FOR INSPECTION & TAGGING.
6	G.C. TO INSTALL WALL BLOCKING AT 48" AND 120" O.C. A.F.F. AT ALL WALLS WITH WALL FIXTURES SHOWN ON FIXTURE PLAN INCLUDING THE STOCKROOM. RE: DETAIL SHEETS A5.1 & A7.0
7	HELIUM TANK STORAGE AREA, SEE A7.0 & P2.0
8	EXISTING ELECTRICAL PANELS. RE: ELECTRICAL DRAWINGS.
9	PHONE/EMS BOARD, RE: ELECTRICAL DRAWINGS.
10	NEW FURRING WALL TO ALIGN WITH EXISTING WALL CONSTRUCTION.
11	TACTILE "EXIT" SIGN. SEE DETAIL 2/G1.2
12	TACTILE ADA ACCESSIBILITY "ENTRY" SIGN. SEE DETAIL 2/G1.2
13	LINE OF FLOORING CHANGE UNDER GONDOLAS.
14	APPLY SV-2 AND FRP-1 TO HATCHED AREAS INDICATED FOR UNDER FIXTURE FOR PREPACKAGED CANDY STORAGE. REF: SHEET A3.2



1 A1.0 FLOOR/FINISH PLAN
SCALE: 1/8" = 1'-0"

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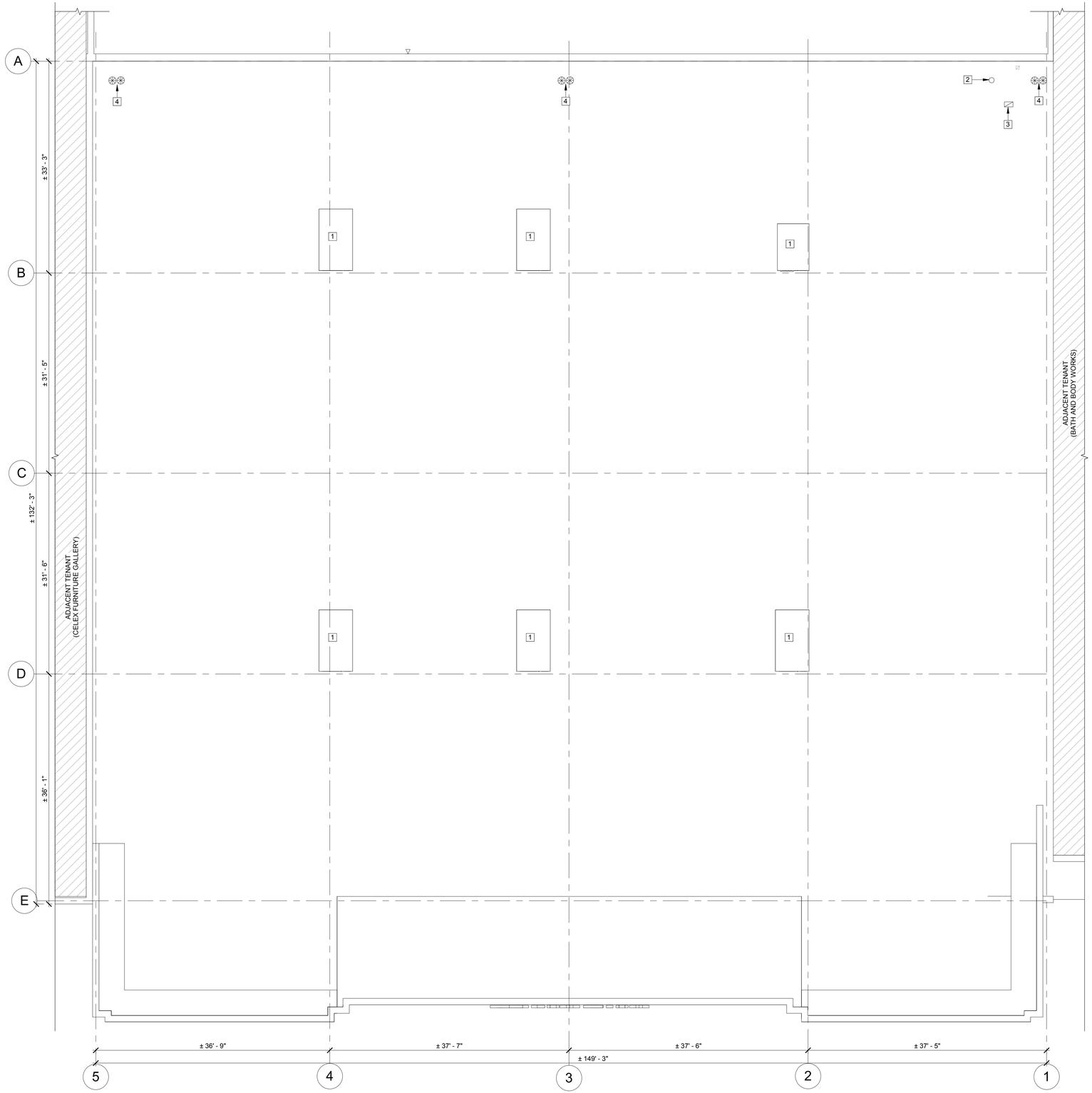
SHEET TITLE
FLOOR / FINISH PLAN

SHEET NO.
A1.0

KEYED NOTES [X]

1	EXISTING RTU UNITS TO REMAIN. REF MECHANICAL DRAWINGS
2	EXISTING PLUMBING VENT TO REMAIN. REF: PLUMBING DRAWINGS
3	EXISTING EXHAUST VENT TO REMAIN. REF: MECHANICAL DRAWINGS
4	EXISTING ROOF DRAINS TO REMAIN.

CONTACT LANDLORD'S ROOFER FOR ALL ROOFING MODIFICATIONS INCLUDING CUTTING ROOF, FLASHING IN ROOF CURBS, & REPAIRING ALL DAMAGE TO ROOF DURING CONSTRUCTION.



1 A1.1 ROOF PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

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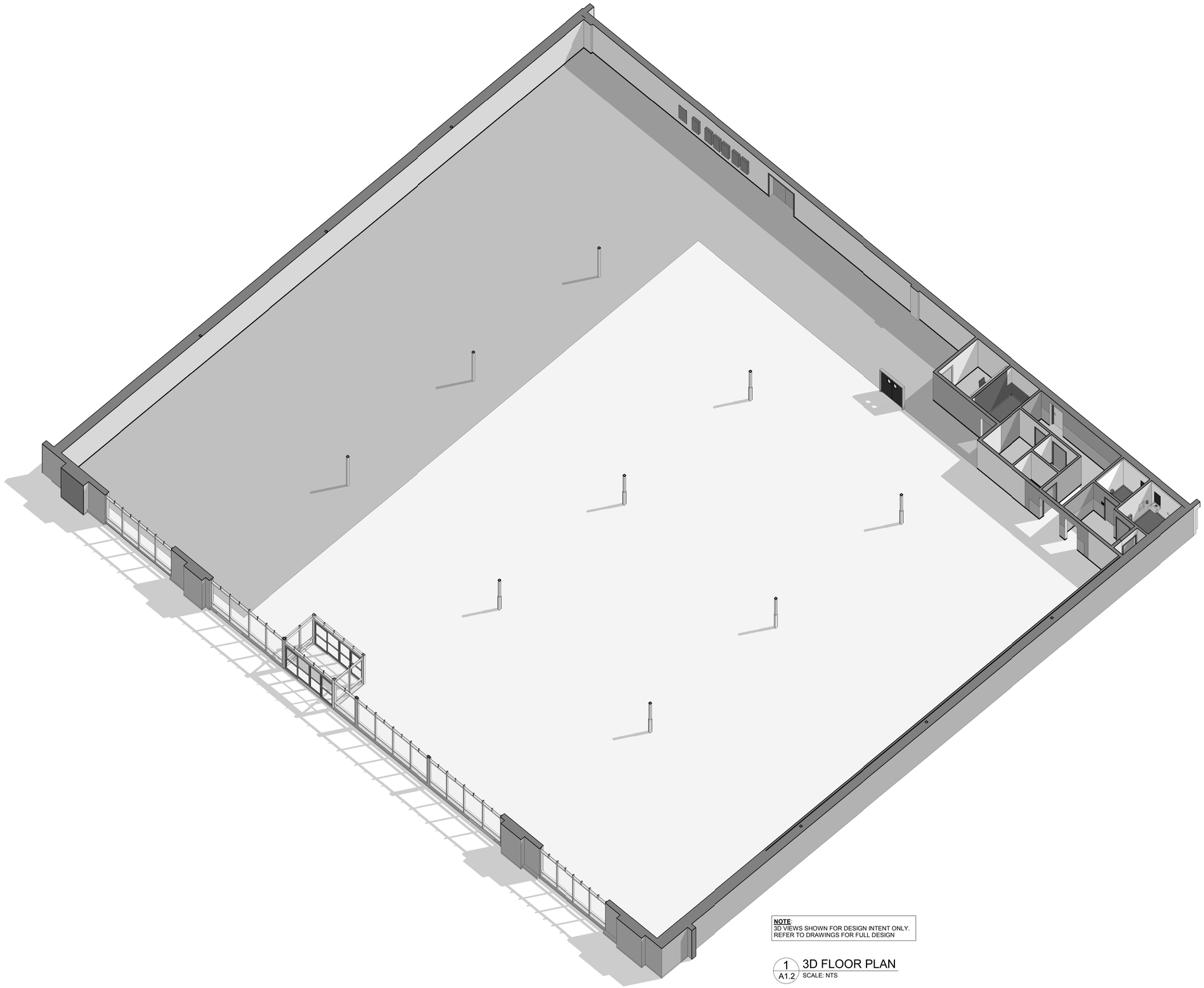
ROOF PLAN
SHEET NO.
A1.1



NOTE:
3D VIEWS SHOWN FOR DESIGN INTENT ONLY.
REFER TO DRAWINGS FOR FULL DESIGN

1 / A1.2 3D FLOOR PLAN
SCALE: NTS

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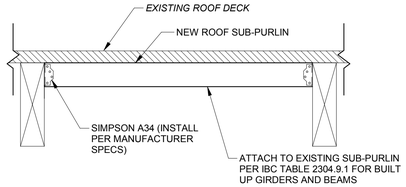
SHEET TITLE

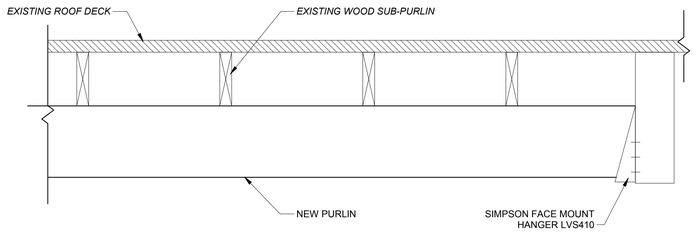
3D FLOOR PLAN

SHEET NO.

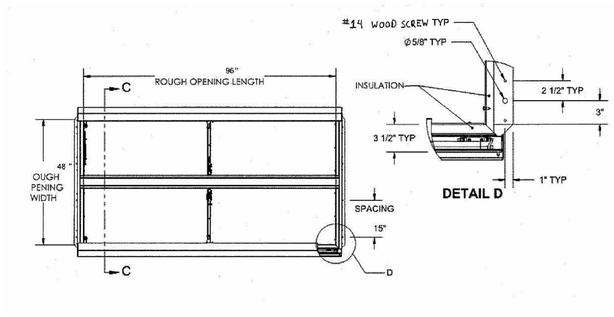
A1.2



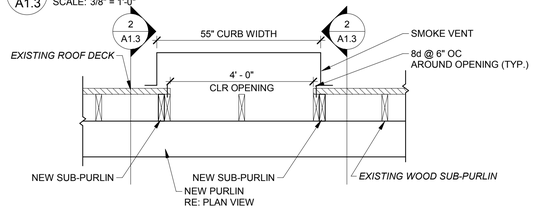
2 A1.3 ROOF OPENING SECTION 1
SCALE: 1" = 1'-0"



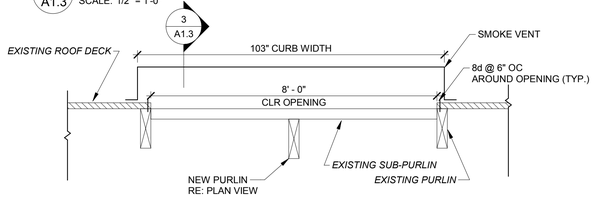
3 A1.3 NEW PURLIN AT ROOF OPENING
SCALE: 1" = 1'-0"



4 A1.3 SMOKE VENT SEISMIC ANCHORAGE
SCALE: 3/8" = 1'-0"



5 A1.3 TYPICAL SECTION THRU SUB-PURLINS @ SMOKE VENTS
SCALE: 1/2" = 1'-0"



6 A1.3 TYPICAL SECTION THRU PURLINS @ SMOKE VENTS
SCALE: 1/2" = 1'-0"

KEYED NOTES [X]

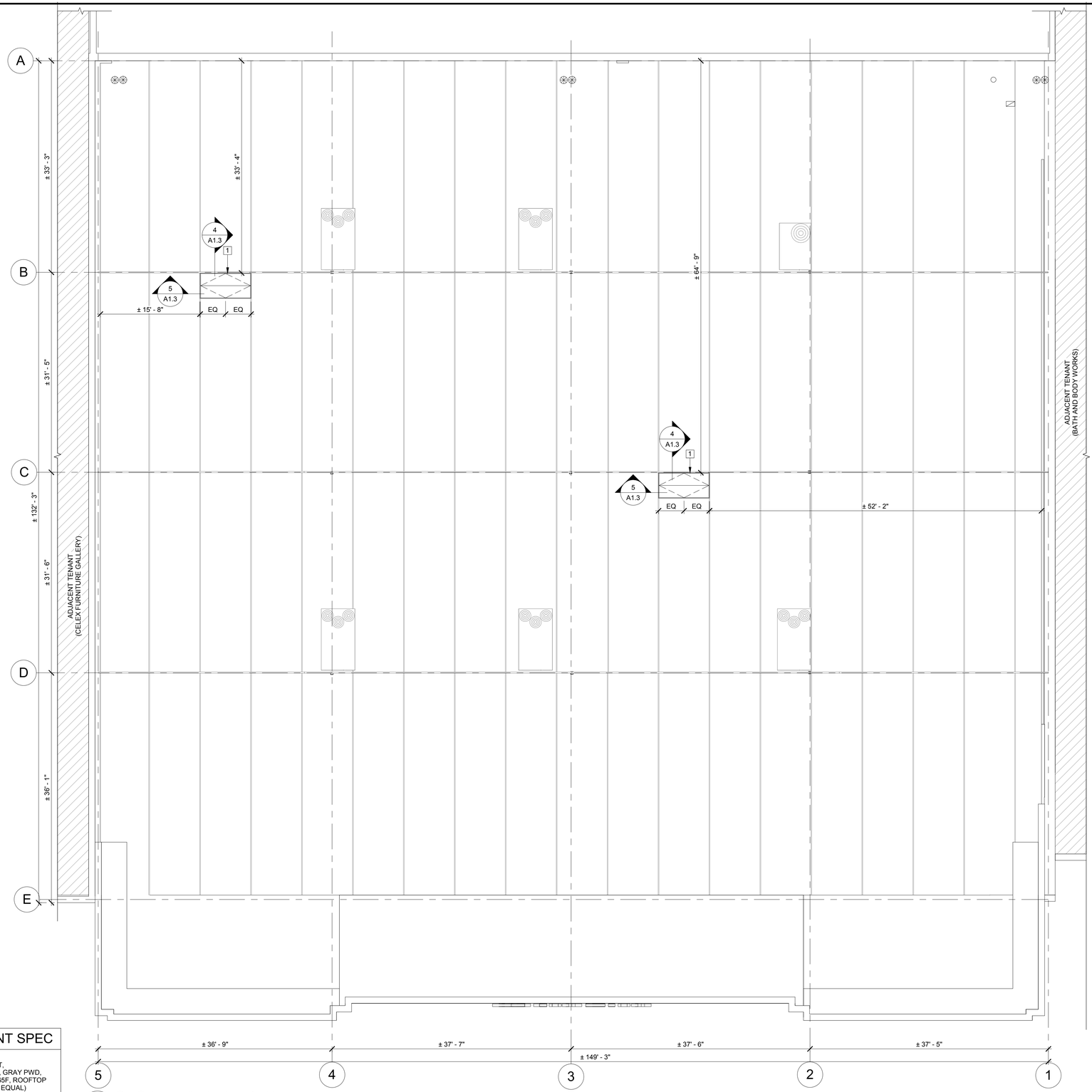
1	INSTALL NEW SMOKE & HEAT VENTS ON NEW CURB WITH BURGLAR BARS AS INDICATED. SEE THIS SHEET FOR SPEC. REF: STRUCTURAL DRAWINGS FOR REQUIRED STRUCTURAL MODIFICATIONS. PATCH & REPAIR ROOF AROUND NEW OPENINGS AS REQUIRED. MATCH EXISTING CONSTRUCTION.

SMOKE & HEAT VENT SPEC

SVSG48X96D1N165R-B1A / WEIGHT IS APPROXIMATELY 600LBS SMOKE VENT, SMOKESCAPE, 48X96, DBL DR, GALVN, GRAY PWD, SNGL WALL CURB, BURGLAR BARS, 165F, ROOFTOP CLOSE, UL793 LISTED (OR APPROVED EQUAL)

MANUFACTURER REP

TARA VANDERWERF
SOUTHWESTERN AREA SALES MANAGER
PH: 800.547.2635 / 763.488.9270
FX: 800.317.8770 / 763.488.9201
TVANDERWERF@NYSTROM.COM



1 A1.3 SMOKE/HEAT VENT PLAN
SCALE: 1/8" = 1'-0"

BID ALTERNATE ITEM #1 - SMOKE & HEAT VENTS
FOR BID PURPOSES ONLY

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE. CHINO, CA 91710

Party City

Larson Design Group
1000 Commerce Park Dr
Suite 201
Williamsport, PA 17701
PHONE 570.323.6603
FAX 570.323.9902
www.larsondesigngroup.com
Architects Engineers Surveyors

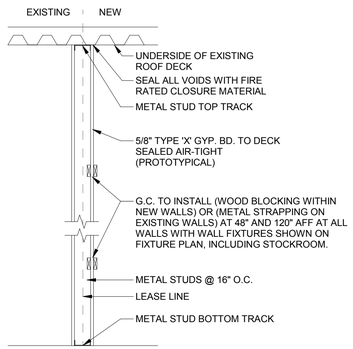
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'V'D BY BMD

SHEET TITLE
SMOKE/HEAT VENT PLAN

SHEET NO.
A1.3

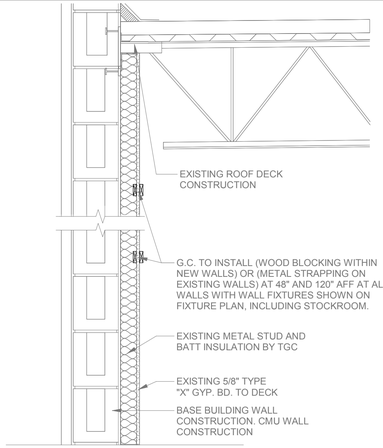
WALL TYPES

WOOD BLOCKING WITHIN WALL SHALL BE SUBSTITUTED WITH 18 GA. METAL STRAPPING ATTACHED TO FACE OF PARTITION AT ALL EXISTING WALL CONDITIONS OR IF WOOD BLOCKING IS NOT ALLOWED PER CODE.



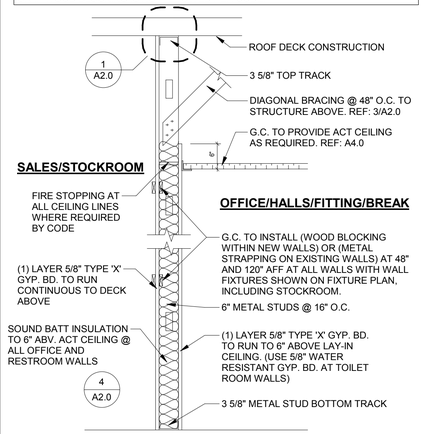
A TYPICAL DEMISING WALL

WOOD BLOCKING WITHIN WALL SHALL BE SUBSTITUTED WITH 18 GA. METAL STRAPPING ATTACHED TO FACE OF PARTITION AT ALL EXISTING WALL CONDITIONS OR IF WOOD BLOCKING IS NOT ALLOWED PER CODE.



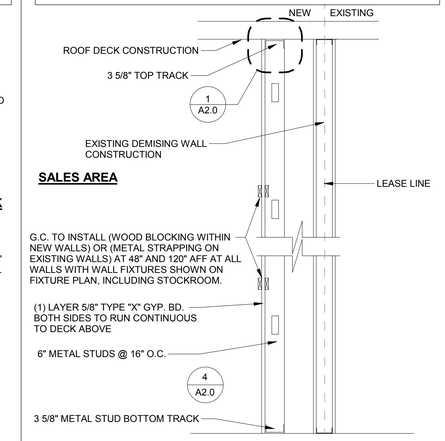
B EXTERIOR WALL

WOOD BLOCKING WITHIN WALL SHALL BE SUBSTITUTED WITH 18 GA. METAL STRAPPING ATTACHED TO FACE OF PARTITION AT ALL EXISTING WALL CONDITIONS OR IF WOOD BLOCKING IS NOT ALLOWED PER CODE.

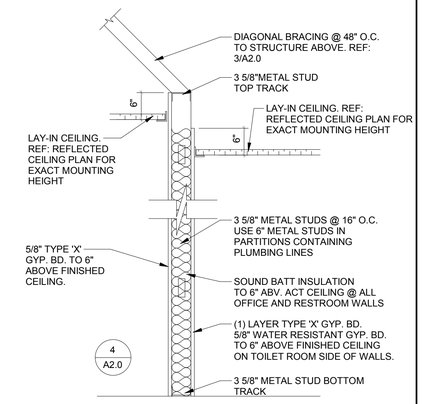


C INTERIOR PARTITION

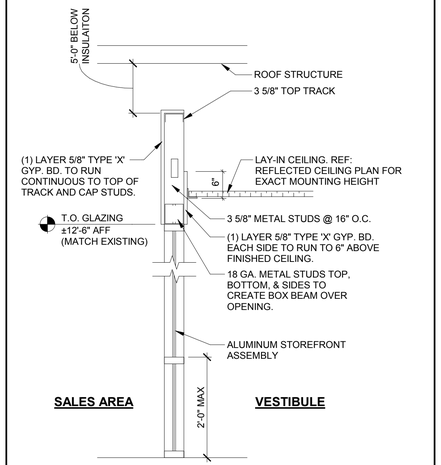
WOOD BLOCKING WITHIN WALL SHALL BE SUBSTITUTED WITH 18 GA. METAL STRAPPING ATTACHED TO FACE OF PARTITION AT ALL EXISTING WALL CONDITIONS OR IF WOOD BLOCKING IS NOT ALLOWED PER CODE.



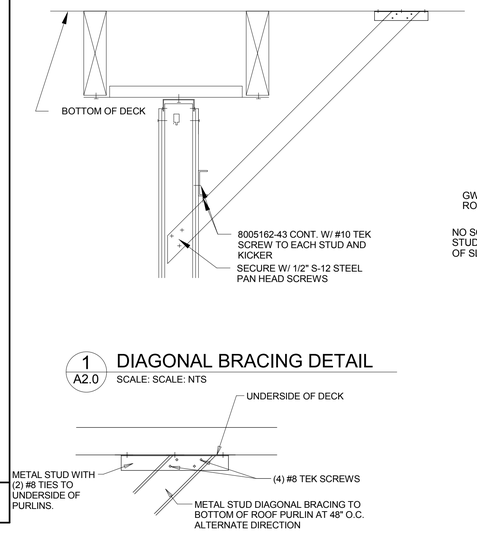
D FURRED-OUT PARTITION



E INTERIOR PARTITION



F VESTIBULE PARTITION

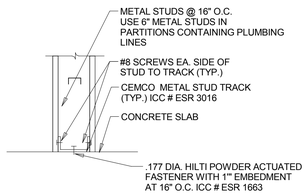


1 A2.0 DIAGONAL BRACING DETAIL

SCALE: SCALE: NTS

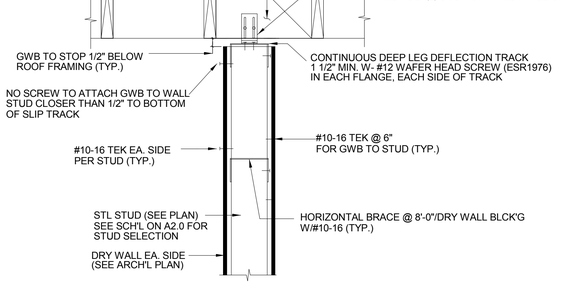
3 A2.0 BRACING ATTACHMENT DETAIL

SCALE: SCALE: NTS



4 A2.0 FLOOR TRACK DETAIL

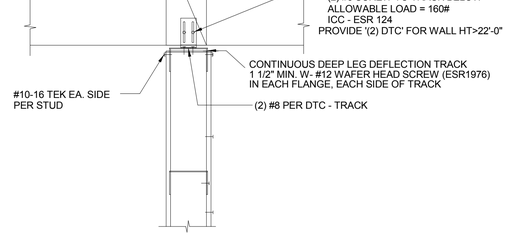
SCALE: SCALE: NTS



INT. WALL PARALLEL TO JOIST TOP CONNECTION DETAIL

2 A2.0 DECK ATTACHMENT DETAIL

SCALE: SCALE: NTS



INT. WALL PERP. TO JOIST TOP CONNECTION DETAIL

METAL STUDS BRACE CHART

METAL STUD SIZE	MAXIMUM UNBRACED HEIGHT
3 5/8" X 25 GA.	11'-3"
3 5/8" X 2O GA.	14'-0"
3 5/8" X 16 GA.	16'-0"
6" X 25 GA.	16'-0"
6" X 20 GA.	21'-0"
6" X 16 GA.	25'-0"

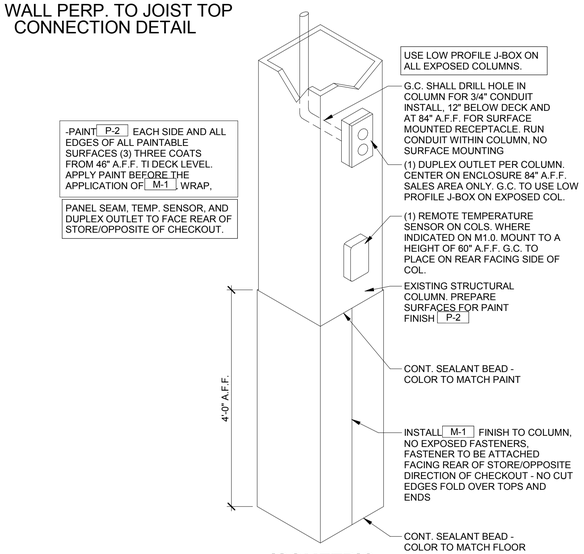
NOTES

1. ALL METAL STUDS TO BE CEMCO ICC ESR# 3016. ALLOWABLE UNBRACED HEIGHT AS PER CHART BELOW.
2. ALL CONNECTION AND FASTENERS TO BE AS PER DETAILS. ALL MANUFACTURERS AND ESR # TO BE STRICTLY ADHERED TO BY G.C. UNLESS APPROVAL FOR EQUAL SUBSTITUTION IS RECEIVED FROM THE BUILDING DEPARTMENT.
3. ALL GYPSUM BOARD TO BE 5/8" TYPE "X" THROUGHOUT. ATTACH WITH 1" TYPE S DRYWALL SCREWS 12" O.C. VERTICALLY AT STUDS AND 8" O.C. AROUND PERIMETER. UNLESS NOTED OTHERWISE

SEE DETAILS 1, 2, & 3/A2.0 FOR STUD WALL BRACING

-PAINT P-2 EACH SIDE AND ALL EDGES OF ALL PAINTABLE SURFACES (3) THREE COATS FROM 46" A.F.F. TI DECK LEVEL. APPLY PAINT BEFORE THE APPLICATION OF M-1 WRAP,

PANEL SEAM, TEMP. SENSOR, AND DUPLEX OUTLET TO FACE REAR OF STORE/OPPOSITE OF CHECKOUT.



ISOMETRIC

5 A2.0 COLUMN ENCLOSURE DETAIL (SQUARE)

SCALE: NTS

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

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REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
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www.larsondesigngroup.com
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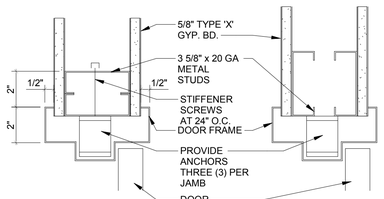
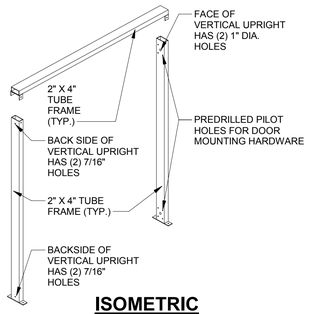
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
WALL TYPES & DETAILS
SHEET NO.
A2.0



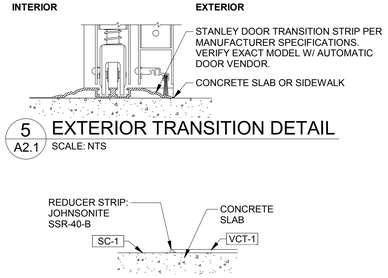
2 A2.1 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"

3 A3.0 NOT USED
SCALE: SCALE: NTS



ISOMETRIC

4 A2.1 ELIASON GONDOLA DOOR FRAME
SCALE: 1/4" = 1'-0"



5 A2.1 EXTERIOR TRANSITION DETAIL
SCALE: NTS

6 A2.1 STOCKROOM TRANSITION DETAIL
SCALE: NTS

7 A2.1 STOCKROOM - EXTERIOR TRANSITION DETAIL
SCALE: NTS

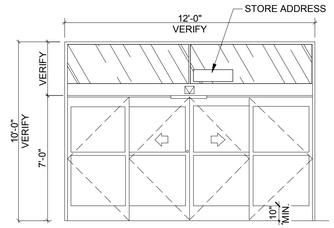
DOOR SCHEDULE - MEDIUM

MARK	SIZE	FIRE RATING	HDW. GROUP	TYPE	DESCRIPTION	NOTES
1	12'-0" X 10'-0"	-	1	A	ALUMINUM AUTOMATIC DOOR SYSTEM - STANLEY - "DURA-GLIDE 3000" BI-PART W/ TRANSOM AND "BEST" CYLINDER. MUST BE ORDERED THROUGH MCKENZIE. RE: G2.0	4
2	12'-0" X 10'-0"	-	1	A	ALUMINUM AUTOMATIC DOOR SYSTEM - STANLEY - "DURA-GLIDE 3000" BI-PART W/ TRANSOM AND "BEST" CYLINDER. MUST BE ORDERED THROUGH MCKENZIE. RE: G2.0	4
3	(2) 2'-8" X 7'-0"	-	2	B	ELIASON DOUBLE DOORS IN CUSTOM THREE PART BREAK AWAY FRAME	5
4	(2) 3'-0" X 7'-0"	-	6	E	EXISTING DOOR TO REMAIN. REPLACE HARDWARE AND BRING TO "LIKE-NEW" CONDITION.	3
5	3'-0" X 7'-0"	-	5	D	HOLLOW METAL DOORS IN METAL FRAME	5
6	3'-6" X 7'-0"	-	-	-	NEW WALL OPENING. PAINT GYP. P-I AND WRAP B-1.	
7	3'-0" X 7'-0"	-	9	G	HOLLOW METAL DOORS IN METAL FRAME	6
8	3'-0" X 7'-0"	-	9	G	HOLLOW METAL DOORS IN METAL FRAME	6
9	3'-0" X 7'-0"	-	9	G	HOLLOW METAL DOORS IN METAL FRAME	6
10	3'-0" X 7'-0"	-	7	F	EXISTING DOOR TO REMAIN. REPLACE HARDWARE AND BRING TO "LIKE-NEW" CONDITION.	2,3
11	3'-0" X 7'-0"	-	-	-	NEW WALL OPENING. PAINT GYP. P-3 AND WRAP FRP-3 AND B-1.	
12	3'-0" X 7'-0"	-	3	C	EXISTING DOOR TO REMAIN. REPLACE HARDWARE AND BRING TO "LIKE-NEW" CONDITION. NO CLOSER	1,2
13	3'-0" X 7'-0"	-	3	C	EXISTING DOOR TO REMAIN. REPLACE HARDWARE AND BRING TO "LIKE-NEW" CONDITION. NO CLOSER	1,2
14	3'-0" X 7'-0"	-	8	C	HOLLOW METAL DOORS IN METAL FRAME	1,2
15	5'-0" X 7'-0"	-	-	-	NEW WALL OPENING. PAINT GYP. P-3 AND WRAP FRP-3 AND B-1.	

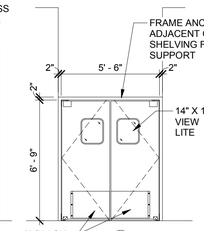
DOOR SCHEDULE NOTES

1. DOOR AND FRAME TO BE PAINTED P-1 ON RESTROOM SIDE, DOOR AND FRAME TO BE PAINTED P-3 ON HALLWAY SIDE.
2. DOOR TO RECEIVE 48" STAINLESS STEEL KICK PLATE.
3. PROVIDE THRESHOLD AS REQUIRED - REF: 7/A2.1
4. INSTALL THRESHOLD AS SUPPLIED BY DOOR MANUFACTURER: REF. 5/A2.1
5. PROVIDE REDUCER STRIP: JOHNSONITE SSR-40-B - REF: 6/A2.1
6. DOOR AND FRAME TO BE PAINTED P-1 ON FITTING ROOM SIDE, DOOR AND FRAME TO BE PAINTED P-3 ON HALLWAY SIDE.

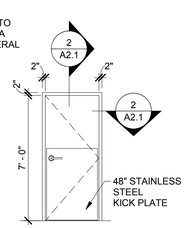
* VERIFY SMOKE AND DRAFT SEAL REQUIREMENTS BEFORE ORDERING DOOR UNITS.



A — STANLEY - DURA-GLIDE 3000 BI-PART W/ TRANSOM



B — ELIASON DOUBLE DOORS IN CUSTOM THREE PART BREAK AWAY FRAME. REF.4/A2.1

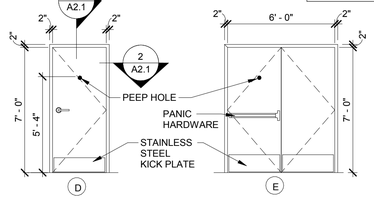


C — METAL DOOR IN METAL FRAME

NOTE:
NEW AUTODOOR SHALL MATCH EXISTING STOREFRONT SIZE, STYLE, & COLOR. G.C. TO VERIFY EXACT EXISTING CONDITIONS IN FIELD PRIOR TO BID & ORDERING W/ VENDOR. G.C. TO FIELD VERIFY EXACT OPENING DIMENSION BEFORE ORDERING OR FABRICATION. PROVIDE SHOP DRAWINGS TO PARTY CITY FOR APPROVAL BEFORE FABRICATION.

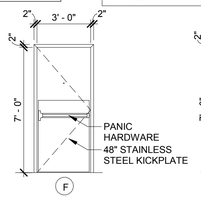
NOTE: ALL NEW GLAZING TO COMPLY WITH MIN. LOCAL ENERGY CODE REQUIREMENTS AND BE TEMPERED SAFETY GLASS.

UNDERCUT 1" AT BOTTOM OF TOILET ROOM DOORS

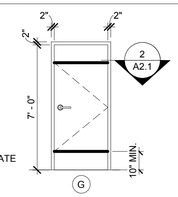


D — METAL DOOR IN METAL FRAME

E — DOUBLE METAL DOORS IN EXTERIOR GRADE METAL FRAME



F — METAL DOOR IN EXTERIOR GRADE METAL FRAME



G — 3/4 METAL DOOR IN METAL FRAME

HARDWARE SCHEDULE

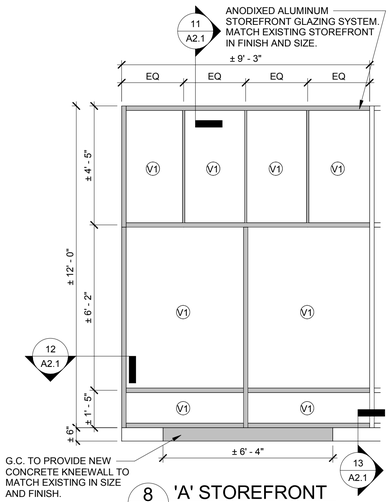
GROUP #1	AUTOMATIC ENTRY DOORS -10" BOTTOM RAILS -ONE POINT ALARM CONTACTS W/ INTERNAL CONTACTS TO ALARM THE ENTIRE DOOR INLCUDING BREAKOUTS -ROTARY KEY SWITCH THAT WILL ALLOW FOR OFF/AUTOMATIC/OPEN/LIMITED OPENING AND DIRECTIONAL TRAFFIC -DOOR POSITION SWITCH -LOCK INDICATOR -BEST CYLINDER LOCK W/ REMOVABLE CONST. CORE -DOUBLE BEVELED GUIDE TRACK -DG 3000 BP SLIDING DOOR W/ FULL BREAKOUT -DS 3000 BP IMPACT SLIDING DOOR WHERE DADE COUNTY REGULATION OR EQUAL APPLY (-MUST BE ORDERED THROUGH MCKENZIE. RE: G2.0)	GROUP #3	TOILET ROOM DOORS 3- HINGES 1- DOOR STOP 1- PRIVACY LOCK SET 1- CLOSER 3- SILENCERS 1- 48" KICK PLATE
		GROUP #4	HALLWAY DOOR 3- HINGES 1- DOOR STOP 3- SILENCERS 1- CLOSER 1- PANIC HARDWARE 1- 48" KICK PLATE
		GROUP #5	OFFICE DOOR 3- HINGES 1- DOOR STOP 1- STOREROOM LOCK SET 1- CLOSER 3- SILENCERS 1- PEEP HOLE
GROUP #2	STOCKROOM/SALES AREA DOUBLE DOORS "ELIASON" "EASY SWING' DOUBLE ACTION DOORS MODEL: HEAVY DUTY HCP-10 1-1/2" THICK POLYMRE CELL CORE W/ HIGH STRENGTH STRUCTURAL PVC FRAME AND 14"X16" WINDOWS. FINISH: .125" THICK HIGH IMPACT THERMOPLASTIC EXTERIOR - BLACK WITH BLACK BUMPERS REQUIRES HM STEEL "KNOCK-DOWN" FRAME WITHOUT STOPS. INSTALL "ELIASON" BRACKET AND JAMB GUARD ASSEMBLIES AND ADDITIONAL REINFORCEMENT PER MANUFATURER'S INSTRUCTIONS	GROUP #6	DOUBLE STOCKROOM EXTERIOR DOORS 6-HINGES 1- PANIC HARDWARE SET 1- WEATHERSTRIPPING 3- SILENCERS 2- SWEEPS 2- 10" KICK PLATES 2- FLUSH BOLTS 1- CLOSER 1- DOUBLE DOOR STRIKE 1- PEEP HOLE 1- EXIT ALARM 1- RAIN DRIP
		GROUP #7	PASSAGE EXTERIOR DOOR 3- HINGES 1- CLOSER 1- PANIC HARDWARE SET 1- WEATHERSTRIPPING 3- SILENCERS 1- SWEEP 1- 48" KICK PLATE 1- PEEP HOLE 1- RAIN DRIP
		GROUP #8	JANITOR DOOR 3- HINGES 3- SILENCERS 1- 48" KICK PLATE 1- DOOR STOP 1- STOREROOM LOCKSET 1- CLOSER
		GROUP #9	FITTING ROOM DOORS 2- SPRING HINGES 1- DOOR STOP 1- PRIVACY LOCK SET 3- SILENCERS

HARDWARE SPECIFICATIONS

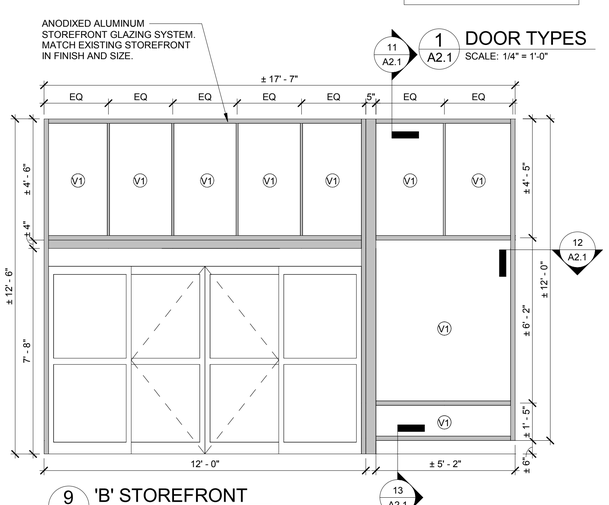
HINGES:	BALL BEARING HINGES: PBB BB81 4 1/2" X 4 1/2" FINISH: SATIN CHROME	KICK PLATE:	HIAWATHA 10" X 34" FINISH: SATIN STAINLESS STEEL (SEE NOTE 11. FOR 48" KICK PLATE)
PASSAGE LATCH SET:	"SCHLAGE" AL10S FINISH: SATIN CHROME	SILENCER:	IVES, NO. 20
PRIVACY LOCK SET:	"SCHLAGE" AL40S FINISH: SATIN CHROME	WEATHERSTRIPPING:	REESE DS75 FINISH: ALUMINUM
STOREROOM LOCK SET:	"SCHLAGE" AL80BD FINISH: SATIN CHROME	SWEEP:	REESE 377 FINISH: ALUMINUM
PANIC HARDWARE SET:	"DETEX" V40xEB BATTERY POWERED - FINISH: BLACK AND RED W/ MORTISE CYLINDER "SCHLAGE 80-102 FINISH: SATIN CHROME	PEEP HOLE:	IVES 698 FINISH: SATIN CHROME
		FLUSH BOLTS:	IVES FB458 FINISH: SATIN CHROME
		DOUBLE DOOR STRIKE:	DETEX 102212-2 FINISH: BLACK
CLOSER:	DOR-O-MATIC SC81 FINISH: ALUMINUM	EXIT ALARM:	DETEX EAX500 FINISH: GRAY
DOOR STOP:	IVES TYPE 436 FINISH: SATIN CHROME	RAIN DRIP:	REESE 535 FINISH: ALUMINUM
SPRING HINGES	PBB SP81 3-KNUCKLE FULL MORTISE		

DOOR NOTES:

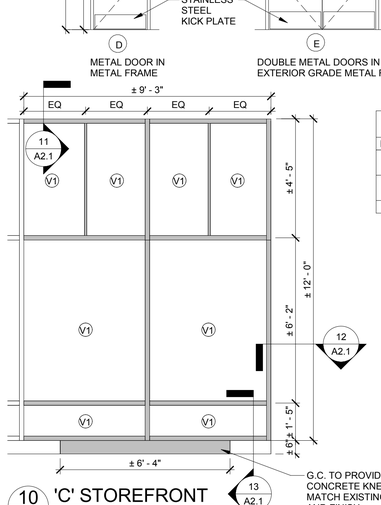
1. ALL HARDWARE REPRESENTS THE INTENDED QUALITY, STYLE AND APPEARANCE. CONTRACTOR TO PROVIDE HARDWARE CUT SHEETS TO TENANT PROJECT MANAGER PRIOR TO CONSTRUCTION.
2. ALL LOCKS TO BE PROVIDED WITH "BEST 7-PIN" INTERCHANGEABLE CORES AND CYLINDERS
3. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
4. AT EXTERIOR DOORS PROVIDE WEATHER STRIPPING, BUTTS WITH TAMPERPROOF PINS AND AN ADA THRESHOLD IF NOT EXISTING - ALL THRESHOLDS SHALL NOT EXCEED 1/2" MAX. HEIGHT.
5. AT EXISTING DOORS-REPLACE DAMAGED OR MISSING HARDWARE, REPLACE LOCK CYLNDERS AND PROVIDE TENANT WITH (2) NEW KEYS
6. PROVIDE ANY REQUIRED SIGNAGE AT EXIT OF SERVICE DOOR. CONTACT LANDLORD REPRESENTATIVE
7. PAINT DOOR & FRAME TO MATCH ADJACENT WALL.
8. INSTALL "PEMKO" SMOKE SEALS AT FIRE RATED DOORS.
9. INSTALL DOOR STOPS WHERE A DOOR WOULD STRIKE A WALL OR OTHER PART OF CONSTRUCTION WHEN OPEN.
10. INSTALL NEW DOOR CLOSING HARDWARE SO THAT CLOSING SPEED FROM 70° OPEN TO 3° FROM THE LATCH IS 3 SECONDS MINIMUM AND THAT THE SPEED FROM 90° OPEN TO 12° FROM THE LATCH IS 5 SECONDS MINIMUM (PER 2010 ADA STANDARDS). IF NECESSARY, ADJUST DOOR CLOSER(S) TO REQUIRE LESS THAN 5 LBS OF FORCE TO OPERATE.
11. INSTALL 48" TALL STAINLESS STEEL KICK PLATES ON DOORS FACING SALES AREA. KICK PLATES TO BE INSTALLED WITH ADHESIVE AND THEN ATTACHED WITH SCREWS @ 12" O.C.



8 A2.1 'A' STOREFRONT
SCALE: 3/8" = 1'-0"



9 A2.1 'B' STOREFRONT
SCALE: 3/8" = 1'-0"

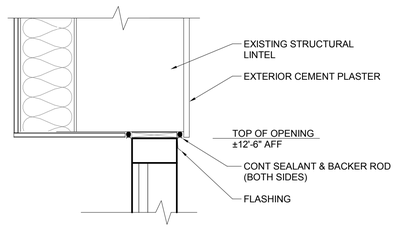


10 A2.1 'C' STOREFRONT
SCALE: 3/8" = 1'-0"

1 A2.1 DOOR TYPES
SCALE: 1/4" = 1'-0"

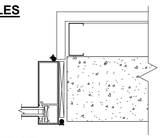
GLASS SCHEDULE

MARK	GLASS TYPE	METAL	COMMENTS
V1	1" INSULATED LOW-E TEMPERED	ALUMINUM	LOW-E ON 3RD FACE
V2	1/4" TEMPERED	ALUMINUM	
STOREFRONT SYSTEM TO HAVE THERMAL BREAK			



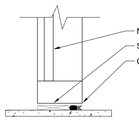
11 A2.1 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

SALES



EXTERIOR

12 A2.1 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



13 A2.1 SILL DETAIL
SCALE: 1 1/2" = 1'-0"

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Architects Engineers Surveyors

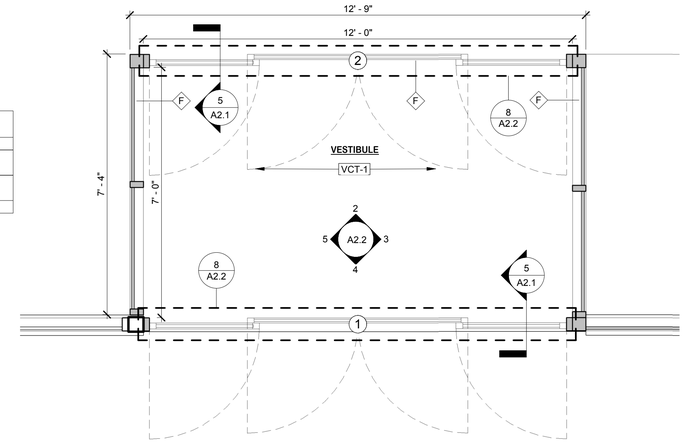
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB

SHEET TITLE
DOOR SCHEDULE

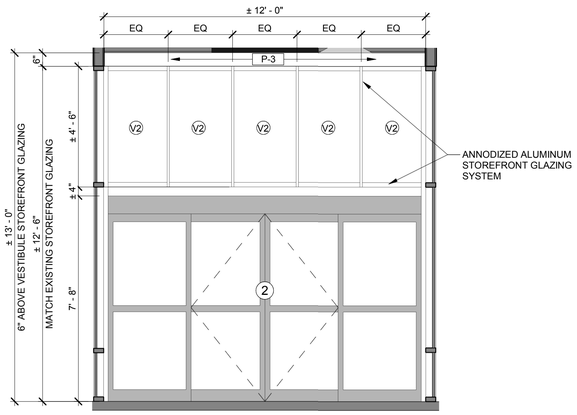
SHEET NO.
A2.1

GLASS SCHEDULE

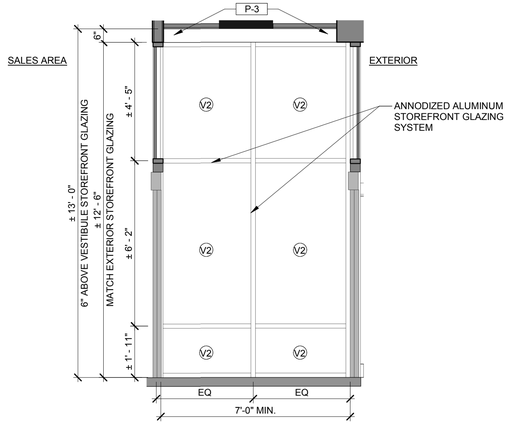
MARK	GLASS TYPE	METAL	COMMENTS
V1	1" INSULATED LOW-E TEMPERED	ALUMINUM	LOW-E ON 3RD FACE
V2	1/4" TEMPERED	ALUMINUM	
STOREFRONT SYSTEM TO HAVE THERMAL BREAK			



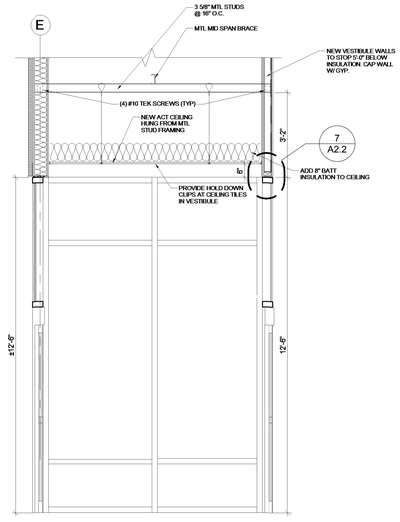
1 A2.2 VESTIBULE PLAN
SCALE: 1/2" = 1'-0"



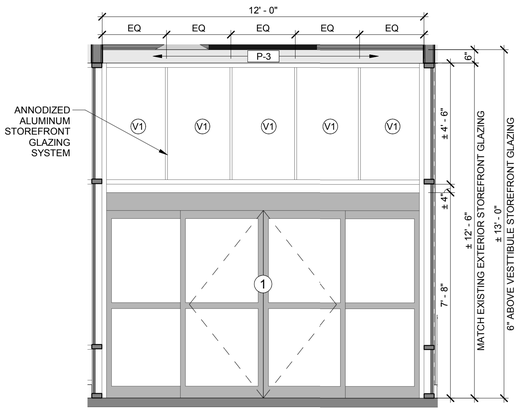
2 A2.2 VESTIBULE ELEVATION
SCALE: 3/8" = 1'-0"



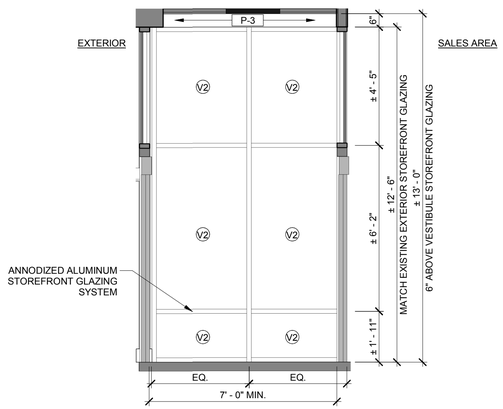
3 A2.2 VESTIBULE ELEVATION
SCALE: 3/8" = 1'-0"



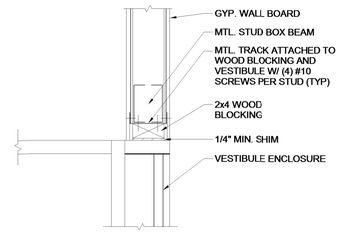
6 A2.2 VESTIBULE SECTION
SCALE: 3/8" = 1'-0"



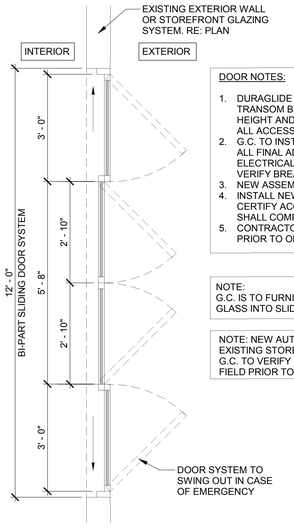
4 A2.2 VESTIBULE ELEVATION
SCALE: 3/8" = 1'-0"



5 A2.2 VESTIBULE ELEVATION
SCALE: 3/8" = 1'-0"



7 A2.2 ENLARGED VESTIBULE DETAIL
SCALE: 1 1/2" = 1'-0"



DOOR NOTES:

1. DURAGLIDE 3000 AUTOMATIC SLIDING DOOR W/ TRANSOM BY STANLEY ACCESS TECHNOLOGIES, VERIFY HEIGHT AND CLEARANCE W/ BUILDING CONSTRUCTION. ALL ACCESSORIES BY DOOR MANUFACTURER.
2. G.C. TO INSTALL TENANT DOOR PACKAGE INCLUSIVE OF ALL FINAL ADJUSTMENTS AND THE RELOCATION OF ELECTRICAL SUPPLY TO DOOR OPERATIONS. G.C. TO VERIFY BREAKAWAY FEATURE IS OPERABLE.
3. NEW ASSEMBLY SHALL MATCH EXISTING STYLE & FINISH.
4. INSTALL NEW ENTRY DOOR ASSEMBLY COMPLETE, TEST, CERTIFY ACCESSIBILITY COMPLIANCE. DOOR ASSEMBLY SHALL COMPLY W/ 2016 CBC TITLE 24
5. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING.

NOTE:
G.C. IS TO FURNISH AND INSTALL GLASS INTO SLIDING DOORS

NOTE: NEW AUTODOOR SHALL MATCH EXISTING STOREFRONT SIZE, STYLE, & COLOR. G.C. TO VERIFY EXACT EXISTING CONDITIONS IN FIELD PRIOR TO BID & ORDERING W/ VENDOR.

8 A2.2 AUTOMATIC DOOR PLAN
SCALE: 1/2" = 1'-0"

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DRAWN BY BCW
APP'D BY GWB

SHEET TITLE
VESTIBULE PLAN AND ELEVATIONS

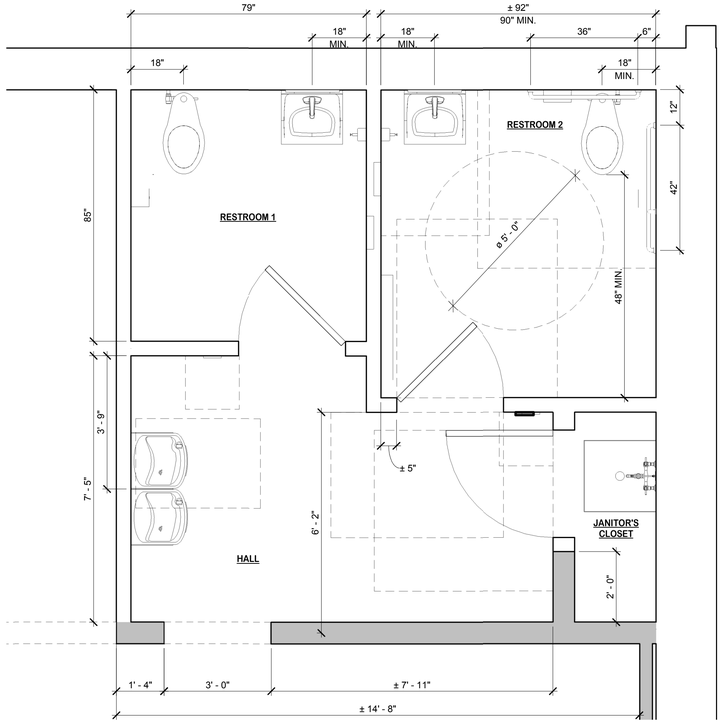
SHEET NO.
A2.2

RESTROOM ACCESSORIES SCHEDULE

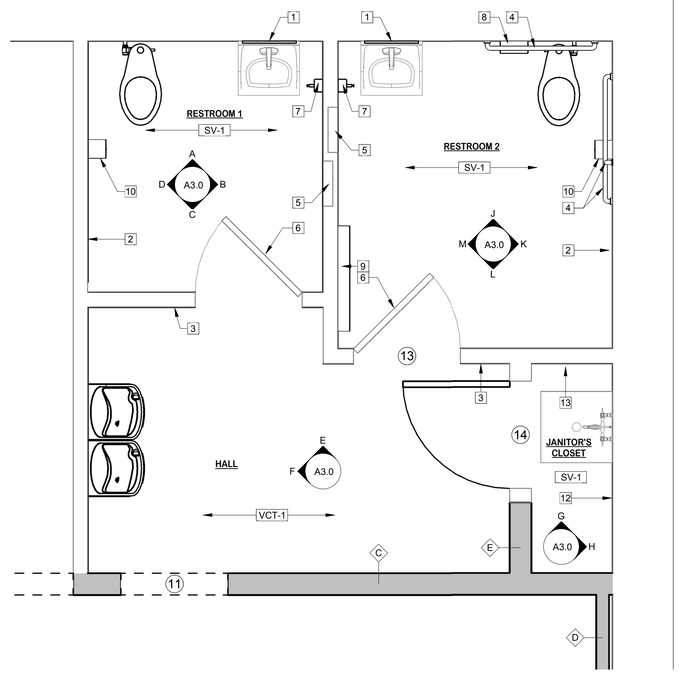
NOTE: ALL PLUMBING ACCESSORIES TO BE SUPPLIED AND INSTALLED BY G.C.

MARK	DESCRIPTION	MANUFACTURER / CATALOG NO.	NOTES
1	MIRROR	BOBRICK #B-290-1836, 36"x 18" MIRROR FINISH: STAINLESS STEEL, SATIN	
2	TOILET SEAT COVER DISPENSER	IMPERIAL BAG & PAPER CO. # 708DISPPK	CONTACT: AILEEN 201-437-7440 X 3117
3	TOILET ROOM SIGNAGE	REFERENCE DETAIL 2/G1.2	
4	GRAB BARS	BOBRICK #B-6806.99, CONCEALED MOUNTING/ SNAP FLANGE, 18 GA. TYPE 304 STAINLESS STEEL 18", 36" AND 42" LENGTHS, STAIN FINISH W/ PEENED NON-SLIP GRIPPING SURFACE.	
5	HAND DRYER	XLERATOR HAND DRYER- MODEL XL-BW, WITH RECESS KIT	110/120 V - 12.5 AMP
6	UTILITY HOOK	BOBRICK #B-670, SURFACE MOUNTED, STAINLESS STEEL, BRIGHT POLISHED FINISH, 1/2"x 2", FLANGE 2"x 2"	
7	SOAP DISPENSER	IMPERIAL BAG & PAPER CO. GOJO CHROME DISPENSER #1919-04	CONTACT: AILEEN 201-437-7440 X 3117
8	SANITARY NAPKIN DISPOSAL	BOBRICK #B-270, SURFACE MOUNTED. FINISH: STAINLESS STEEL, SATIN. SIZE: 8"Wx 11H"x 4"D - WOMEN'S ROOM ONLY	
9	BABY CHANGING STATION	KOALA CORPORATION #KB208-01, SURFACE MOUNTED, BABY CHANGING STATION & IDENTIFYING DOOR PLAQUE. FINISH: GRAY	
10	TOILET PAPER DISPENSER	IMPERIAL BAG & PAPER CO. # R2790TBK	CONTACT: AILEEN 201-437-7440 X 3117
11	UNDERSINK PIPE COVER	TRUEBRO LAV. SHIELD #2018-AS-L1 20"X18"	
12	MOP SINK SUPPLY SHELF	EXISTING TO REMAIN.	INSTALL NEW SHELF.
13	MOP & BROOM HOLDER	BOBRICK #B-223x24. FINISH: STAINLESS STEEL, SATIN. SIZE: 24"W X 5"H X 3-1/4"D.	

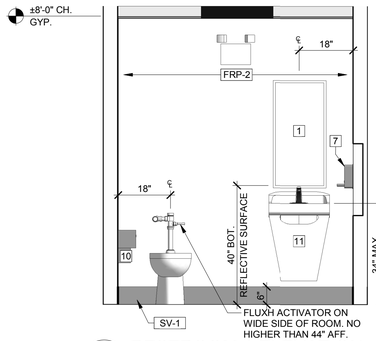
PROVIDE PRESSURE TREATED FIRE RETARDANT WOOD BLOCKING FOR ALL TOILET AND CUSTODIAL ACCESSORIES AS REQUIRED.
NO SUBSTITUTIONS ON ANY TOILET ROOM PLUMBING FIXTURES OR ACCESSORIES.



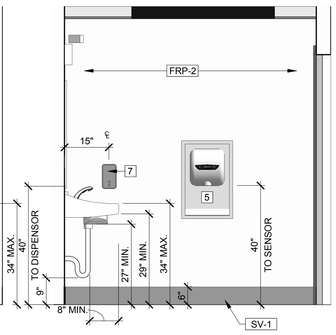
1 A3.0 ENLARGED TOILET ROOM - DIMS
SCALE: 1/2" = 1'-0"



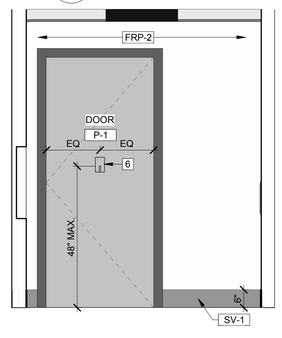
2 A3.0 ENLARGED TOILET ROOM - NOTES
SCALE: 1/2" = 1'-0"



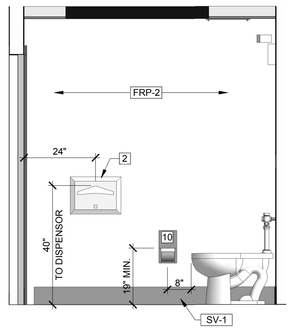
A A3.0 RESTROOM 1 ELEVATION
SCALE: 1/2" = 1'-0"



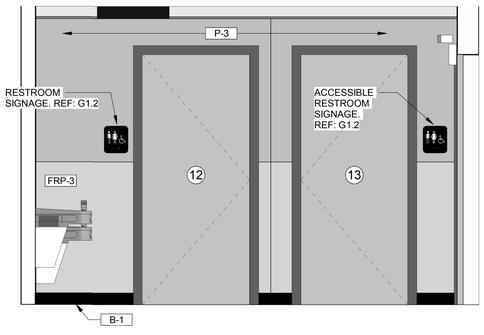
B A3.0 RESTROOM 1 ELEVATION
SCALE: 1/2" = 1'-0"



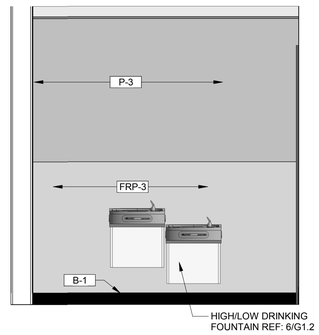
C A3.0 RESTROOM 1 ELEVATION
SCALE: 1/2" = 1'-0"



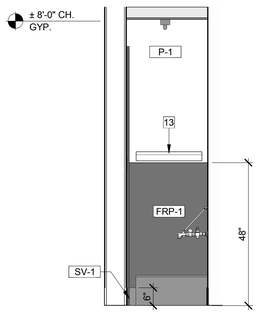
D A3.0 RESTROOM 1 ELEVATION
SCALE: 1/2" = 1'-0"



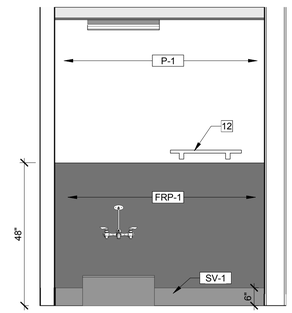
E A3.0 HALLWAY ELEVATION
SCALE: 1/2" = 1'-0"



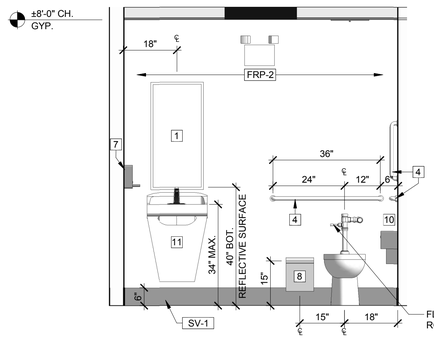
F A3.0 HALLWAY ELEVATION
SCALE: 1/2" = 1'-0"



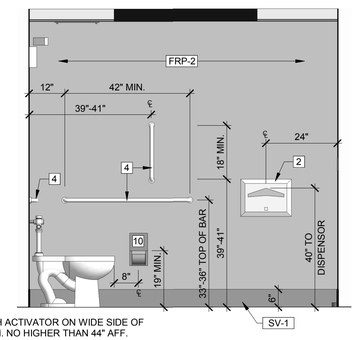
G A3.0 JANITORIAL CLOSET ELEVATION
SCALE: 1/2" = 1'-0"



H A3.0 JANITORIAL CLOSET ELEVATION
SCALE: 1/2" = 1'-0"



J A3.0 RESTROOM 2 ELEVATION
SCALE: 1/2" = 1'-0"



K A3.0 RESTROOM 2 ELEVATION
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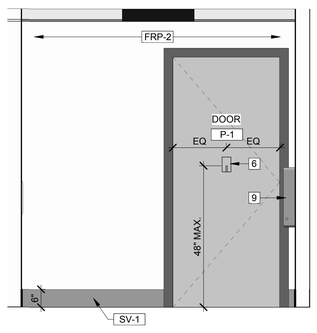
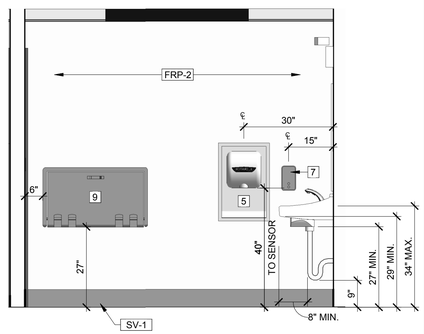


L A3.0 RESTROOM 2 ELEVATION
SCALE: 1/2" = 1'-0"



M A3.0 RESTROOM 2 ELEVATION
SCALE: 1/2" = 1'-0"

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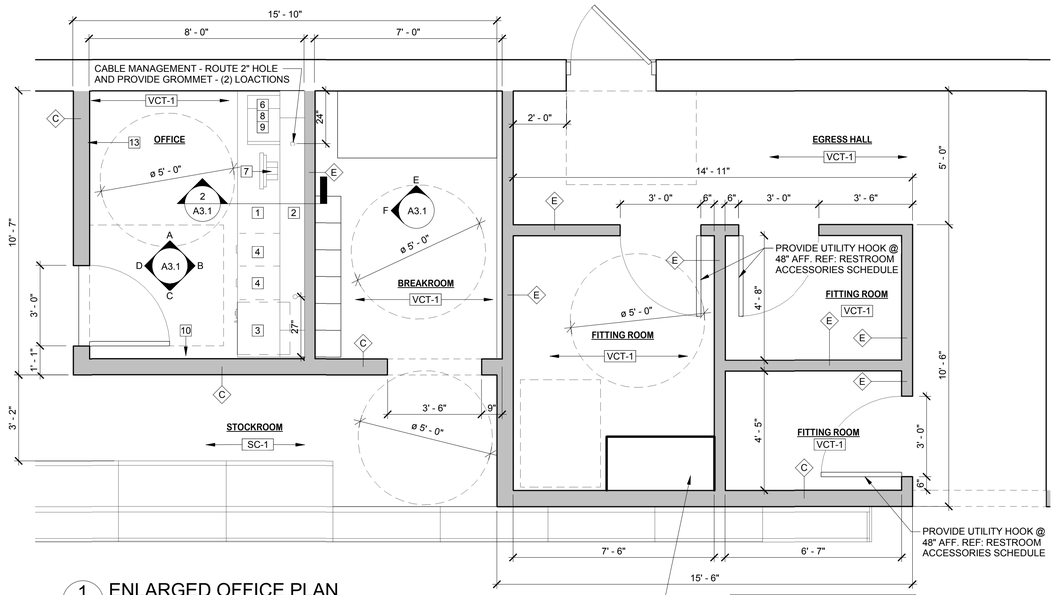
SHEET TITLE
TOILET ROOM & OFFICE DETAILS

SHEET NO.
A3.0

OFFICE ACCESSORIES SCHEDULE

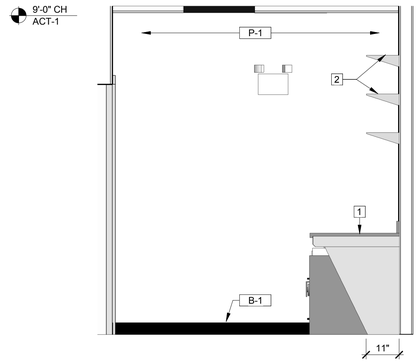
MARK	DESCRIPTION	MANUFACTURER / CATALOG NO.	NOTES
1	COUNTERTOP	30" DEEP COUNTERTOP WITH BACKSPLASH. FINISH-PL-1	
2	SHELVES AND STANDARDS	18" DEEP SHELVES - FINISH: WHITE MELAMINE WITH REEVE 18" 41-18 BRACKETS ON 48"L REEVE 20-4 STANDARDS. FINISH: ZINC PROVIDE BLOCKING AS REQUIRED	
3	SAFE	INSTALL UNDER COUNTER BOLTED TO SLAB	FURNISHED BY TENANT
4	FILE CABINET	INSTALL UNDER COUNTER	FURNISHED BY TENANT
5	OFFICE CHAIR		FURNISHED BY TENANT
6	FAX MACHINE		FURNISHED BY TENANT
7	COMPUTER MONITOR		FURNISHED BY TENANT
8	PRINTER		FURNISHED BY TENANT
9	COPIER		FURNISHED BY TENANT
10	BULLETIN BOARD		FURNISHED BY TENANT
11	MUSIC SYSTEM		FURNISHED BY TENANT
12	SECURITY SYSTEM		FURNISHED BY TENANT
13	WHITE BOARD		FURNISHED BY TENANT



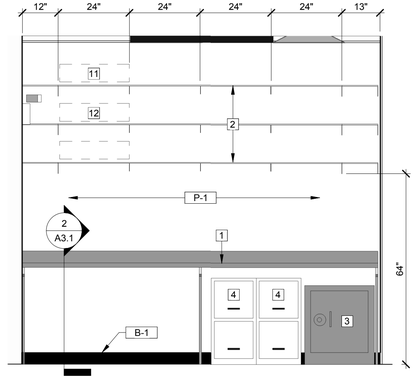
1 A3.1 ENLARGED OFFICE PLAN
SCALE: 3/8" = 1'-0"

G.C. TO PROVIDE 48" W BY 22" DEEP AND 18" IN HEIGHT. PROVIDE A MINIMUM OF 30" CLEARANCE ON SIDE OF BENCH FOR ACCESSIBILITY FINISH: PL-1

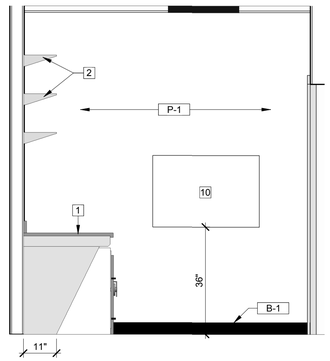
NOTE:
PROVIDE A 3' WIDE X 5' TALL MIRROR IN ALL FITTING ROOMS. SECURE W/ J CHANNEL ON TOP AND BOTTOM



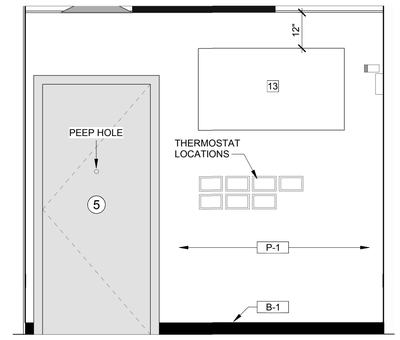
A A3.1 OFFICE ELEVATION
SCALE: 1/2" = 1'-0"



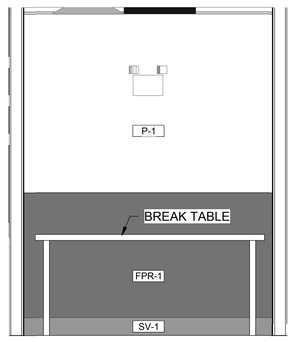
B A3.1 OFFICE ELEVATION
SCALE: 1/2" = 1'-0"



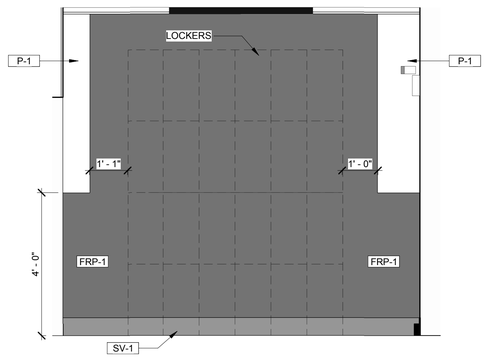
C A3.1 OFFICE ELEVATION
SCALE: 1/2" = 1'-0"



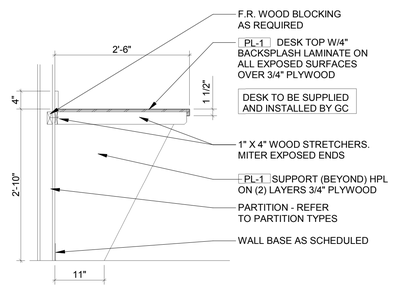
D A3.1 OFFICE ELEVATION
SCALE: 1/2" = 1'-0"



E A3.1 BREAK ROOM ELEVATION
SCALE: 1/2" = 1'-0"



F A3.1 BREAK ROOM ELEVATION
SCALE: 1/2" = 1'-0"



2 A3.1 SECTION AT MANAGER'S DESK
SCALE: 3/4" = 1'-0"

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PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
ENLARGED OFFICE PLAN
SHEET NO.
A3.1

CEILING PLAN NOTES

A. EXPOSED DECK, STRUCTURE AND EXISTING CONDUIT/PIPING AND HVAC DUCTS TO BE PAINTED P-2

B. LIGHT FIXTURES AND ALL HARDWARE ARE TO BE WHITE.

C. CEILING GRID TO BE HUNG WITH #8 WIRES AT ALL FOUR CORNERS OF ALL RECESSED LIGHT FIXTURES, DIFFUSERS, ETC. EXCEPT WHERE CODE REQUIRES BLACK IRON TO BE USED AS A SUSPENSION SYSTEM. ALSO ANY SEISMIC DETAILS AS APPLICABLE.

D. ALL RETURN AIR GRILLES, SUPPLY DIFFUSERS AND ACCESS PANELS TO BE PAINTED TO MATCH THE SURROUNDING AREA.

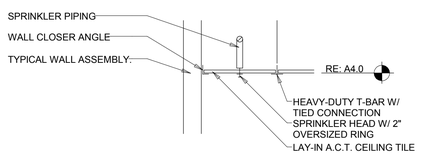
E. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO MILLWORK/FIXTURES/CASHWRAPS IN FIELD.

F. INSTALL CEILING GRID AND ACT-1 CEILING TILES WHERE INDICATED ON PLANS. CENTER ALL LIGHT FIXTURES AS SHOWN, UNLESS NOTED OTHERWISE.

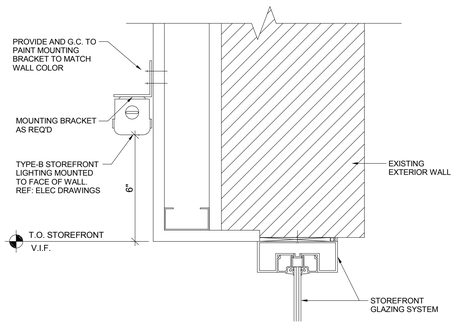
G. G.C. TO AVOID LOCATING DIFFUSERS BLOWING DIRECTLY ON FLUORESCENT LIGHTING.

PROVIDE, INSTALL OR MODIFY EXISTING SPRINKLER SYSTEM IN ACCORDANCE WITH ALL CODES HAVING JURISDICTION, IF REQUIRED. SPRINKLER HEADS SHALL BE LOCATED IN CONJUNCTION WITH THE TENANT'S REFLECTED CEILING PLAN AND FLOOR PLAN. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK WITH ALL OTHER TRADES AND SHALL PROVIDE SHOP DRAWINGS TO BE USED FOR ALL APPROVAL SUBMISSION REQUIRED.

SUSPENDED CEILING
- MANUFACTURER: ARMSTRONG
- SERIES: SEISMIX RX (ESR-1308)
- SEISMIC CLASS: D
- TESTING: COMPLIES W/ ASTM C635, ASTM C636, ASCE 7, & CISCA
- ASSEMBLY
  1. WALL CLOSURE ANGLE: 2" WIDE
  2. GRID SYSTEM: HEAVY DUTY T-BAR W/ TIED CONNECTIONS. 1 SIDE SHALL BE TIED TO CLOSURE ANGLE, OTHER SHALL BE FREE SLIDING, 3/4" CLEARANCE ON ENDS.
  3. 2" OVERSIZED TRIM RINGS FOR SPRINKLER HEADS
  4. LEVEL CEILING PLAN
  5. CABLE TRAYS: N/A
  6. PERIMETER SUPPORT WIRE: WITHIN 8"



3 / A4.0 SEISMIC TYP. CEILING GRID DTL.(IF APPLICABLE)
SCALE: 1/2" = 1'-0"



2 / A4.0 TYPE-B LIGHTING DETAIL
SCALE: 3" = 1'-0"

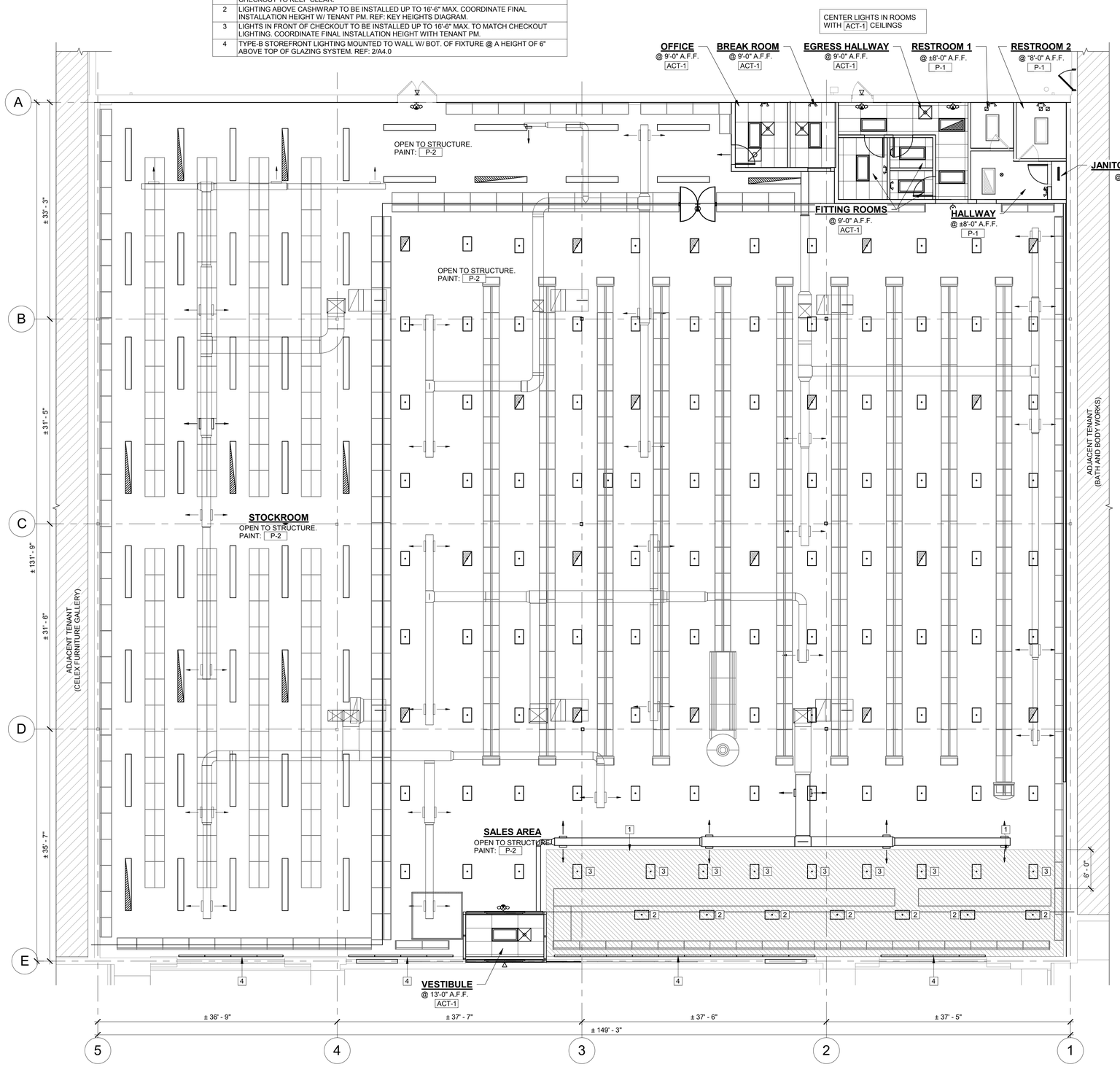
- BTM. OF DECK - ±18'-2 3/4"
- BTM. OF BEAM - ±17'-2 1/4"
- BTM. OF DUCT - ±13'-0"
- BTM. OF CASHWRAP LIGHTING -16'-0"
- BTM. OF SALES LIGHTING - 12'-6"
- BTM. OF STOCKROOM LIGHTING - 12'-6"
- PERIMETER SHELVING - 12'-0"
- INTERIOR SHELVING 10'-6"
- FINISH FLOOR

NOTE:
CONTRACTOR TO VERIFY EXISTING CONDITIONS & MOUNT SPRINKLERS, CONDUIT, AND DUCTWORK AS HIGH AS POSSIBLE WITHIN THE EXISTING CEILING SPACE. NOTIFY ARCHITECT/ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO FABRICATION/INSTALLATION.

KEY HEIGHTS DIAGRAM
SCALE: 1/4" = 1'-0"

KEYED NOTES X

1	NO DUCTWORK TO BE INSTALLED ABOVE CHECKOUT. HATCHED AREA INDICATES AREA ABOVE CHECKOUT TO KEEP CLEAR.
2	LIGHTING ABOVE CASHWRAP TO BE INSTALLED UP TO 16'-6" MAX. COORDINATE FINAL INSTALLATION HEIGHT W/ TENANT PM. REF: KEY HEIGHTS DIAGRAM.
3	LIGHTS IN FRONT OF CHECKOUT TO BE INSTALLED UP TO 16'-6" MAX. TO MATCH CHECKOUT LIGHTING. COORDINATE FINAL INSTALLATION HEIGHT WITH TENANT PM.
4	TYPE-B STOREFRONT LIGHTING MOUNTED TO WALL W/ BOT. OF FIXTURE @ A HEIGHT OF 6" ABOVE TOP OF GLAZING SYSTEM. REF: 2/A4.0



1 / A4.0 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

RE: HVAC FOR EXACT HVAC LAYOUT

RE: ELEC FOR EXACT LIGHTING LAYOUT & DIMENSIONS

Reference Sheet E2.0 For Light Fixture Dims & Schedule

PLAN NORTH

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

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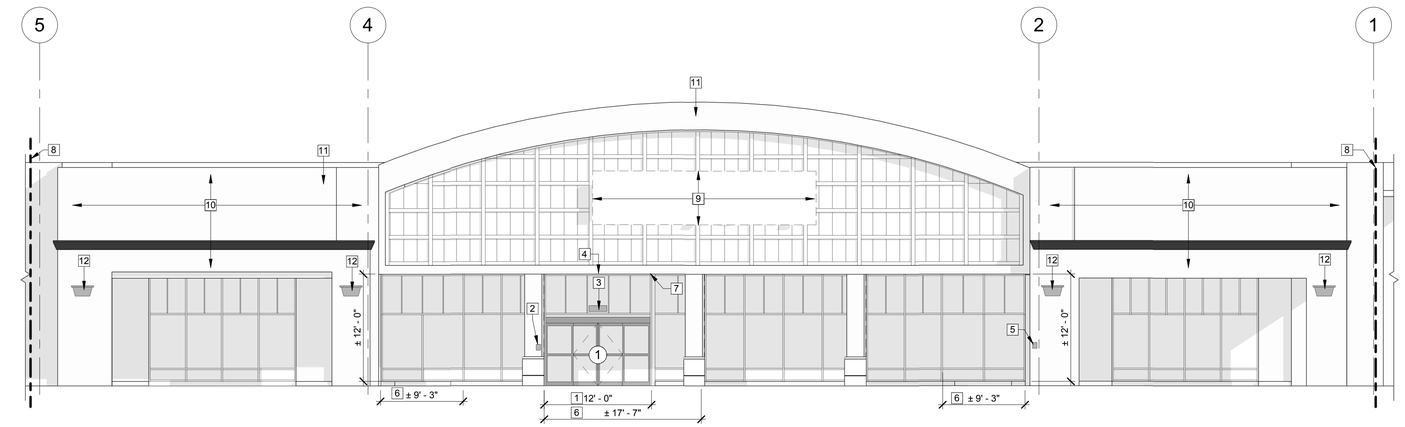
Architects Engineers Surveyors

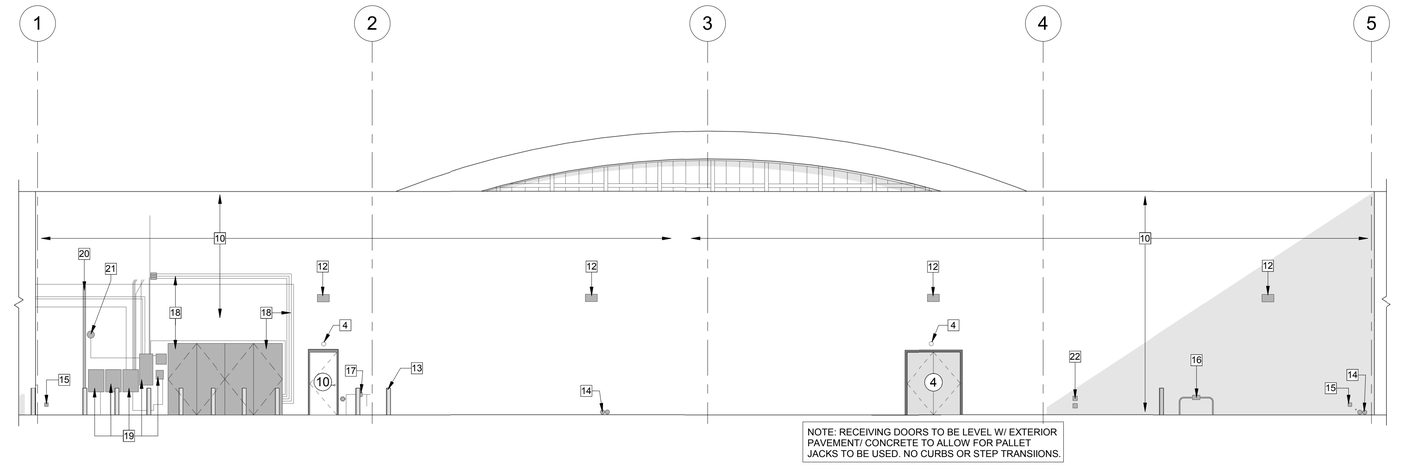
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE: REFLECTED CEILING PLAN
SHEET NO. A4.0



1 A5.0 EXTERIOR FRONT ELEVATION

SCALE: 1/8" = 1'-0"

NOTE:
G.C. TO DEMO ALL EXISTING WINDOW TINTS AND FILMS, AND RESTORE TO CLEAR GLAZING. ALL NEW GLAZING TO BE CLEAR. ALL NEW GLAZING TO MEET LOCAL ENERGY CODES.



NOTE: RECEIVING DOORS TO BE LEVEL W/ EXTERIOR PAVEMENT/ CONCRETE TO ALLOW FOR PALLET JACKS TO BE USED. NO CURBS OR STEP TRANSIIONS.

2 A5.0 EXTERIOR REAR ELEVATION

SCALE: 1/8" = 1'-0"

SIGNAGE NOTES:

1. SIGNAGE BY OTHERS UNDER SEPARATE PERMIT.
2. G.C. SHALL COORDINATE ALL POWER SIGNAL & BLOCKING REQUIREMENTS WITH OTHERS.
3. G.C. TO INSTALL ACCESS PANELS ON INTERIOR WALL BEHIND SIGN AREA TO ALLOW SIGN INSTALLER TO WIRE THE SIGN

KEYED NOTES [X]

1	AUTOMATIC SLIDING DOORS W/ TRANSOM. REF 2/A1.0.
2	ADA APPROVED ENTRANCE SIGN. SEE SHEET G1.2 FOR MOUNTING HEIGHTS.
3	STORE ADDRESS.
4	NEW EMERGENCY LIGHTING.
5	EXISTING SINGLE GANG BOX MOUNTED IN WALL AT THIS LOCATION FOR KNOX BOX, IF REQUIRED BY LOCAL FIRE DEPARTMENT, G.C. TO VERIFY IF REQUIRED.
6	NEW STOREFRONT & TEMPERED SAFETY GLAZING TO MATCH EXISTING. NEW WINDOWS AND DOORS TO BE MIN. 1/4" "TEMPERED SAFETY."
7	PATCH AND REPAIR FINISHES IF/AS REQUIRED FOR NEW STOREFRONT WORK. MATCH ADJACENT FINISHES.
8	FACADE LEASE LINE
9	INTERNALLY ILLUMINATED SIGN - REFER TO SIGN SHOP DRAWINGS FOR DETAILS & MATERIALS. FINAL CONNECTION BY TENANT SIGNAGE CONTRACTOR.
10	EXISTING FACADE TO REMAIN, NO WORK.
11	EXISTING STOREFRONT CANOPY TO REMAIN, NO WORK. PROTECT DURING DEMOLITION AND CONSTRUCTION.
12	EXISTING LIGHTING TO REMAIN
13	EXISTING BOLLARDS TO REMAIN. PATCH AND REPAIR AS REQUIRE TO BRING BACK TO LIKE NEW CONDITION. (TYP. OF 11)
14	EXISTING ROOF DRAIN DOWNSPOUT TO REMAIN.
15	EXISTING HOSE BIB TO REMAIN.
16	EXISTING WATER METER TO REMAIN.
17	EXISTING GAS METER TO REMAIN
18	EXISTING METER BANK AND CONDUIT TO REMAIN. REFERENCE ELECTRICAL DRAWINGS.
19	EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
20	EXISTING SPRINKLER RISER TO REMAIN.
21	EXISTING FIRE ALARM BELL TO REMAIN.
22	EXISTING ELECTRICAL OUTLET TO REMAIN.

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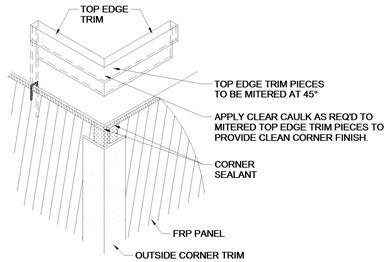
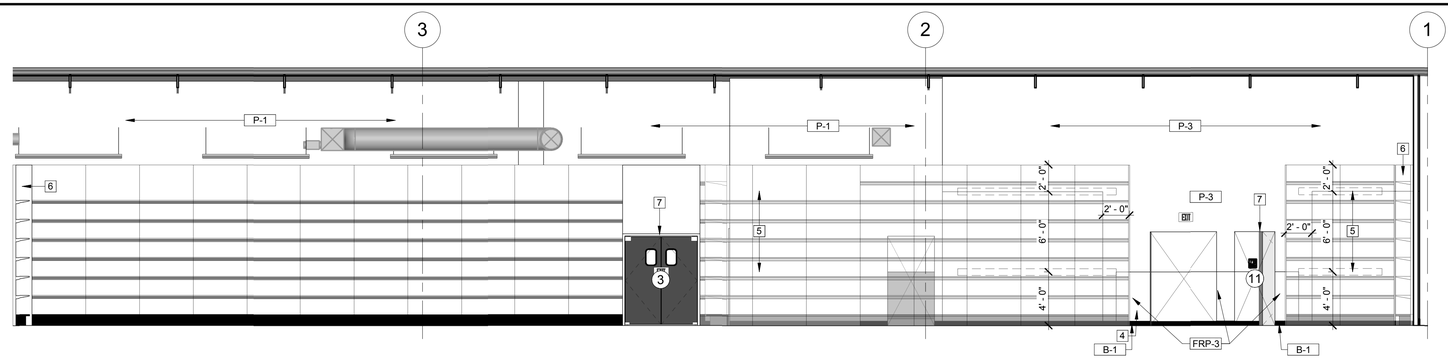
EXTERIOR ELEVATIONS

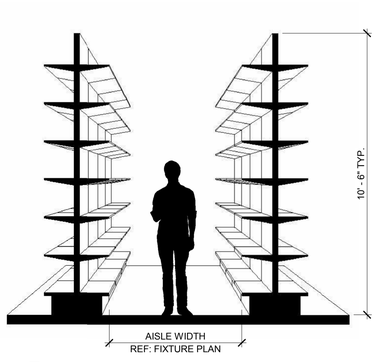
SHEET NO.
A5.0



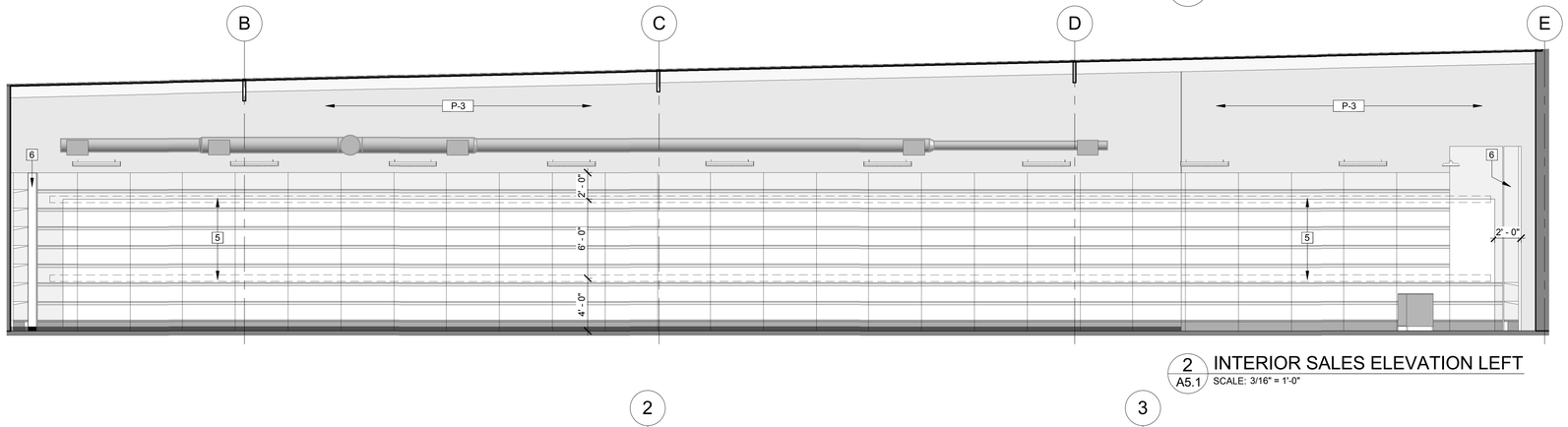
5 A5.1 FRP CORNER INSTALLATION DETAIL
SCALE: 6" = 1'-0"



1 A5.1 INTERIOR SALES ELEVATION REAR
SCALE: 3/16" = 1'-0"



6 A5.1 AISLE HEIGHT DIAGRAM
SCALE: 3/8" = 1'-0"



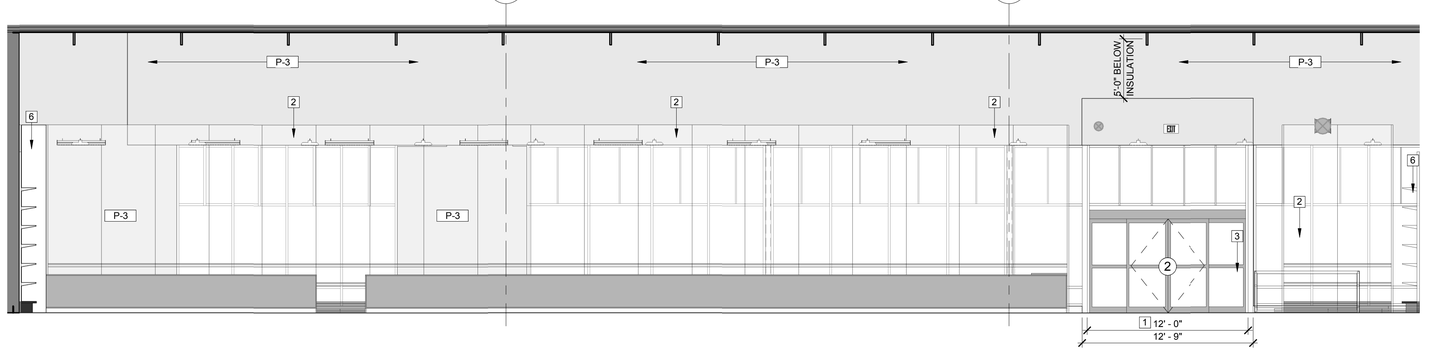
2 A5.1 INTERIOR SALES ELEVATION LEFT
SCALE: 3/16" = 1'-0"

FINISH NOTES

A. EXCEPT WHERE SHELVING FIXTURES ARE NOT INSTALLED. SALES AREA WALLS TO BE PAINTED P-3 (SHOWN HATCHED) FROM 10'-0" AFF TO ROOF DECK AND 2'-0" IN FROM FIXTURE EDGE.
B. FRP-3 TO BE INSTALLED ON ALL EXPOSED WALL IN SALES AREA.

KEYED NOTES

1	NEW ENTRY, DOORS, STOREFRONT, AND TRANSOM.
2	TYPE-B STOREFRONT LIGHTING MOUNTED TO ACT CEILING. KEEP TIGHT TO STOREFRONT, REF: 2/A4.0
3	CART CORRAL. REF 7/7.2
4	FRP-3 TO CONTINUE TO 12" BEHIND FIXTURE
5	PROVIDE BLOCKING BEHIND FIXTURES. REFER TO SHEET A7.2
6	CORNER FILLER.
7	P-3 DOOR AND FRAME.



3 A5.1 INTERIOR SALES ELEVATION FRONT
SCALE: 3/16" = 1'-0"

BTM. OF DECK - ±18'-2 3/4"
BTM. OF BEAM - ±17'-2 1/4"
BTM. OF DUCT - ±13'-0"
BTM. OF CASHWRAP LIGHTING -16'-0"
BTM. OF SALES LIGHTING - 12'-6"
BTM. OF STOCKROOM LIGHTING - 12'-6"
PERIMETER SHELVING - 12'-0"
INTERIOR SHELVING 10'-6"

NOTE:
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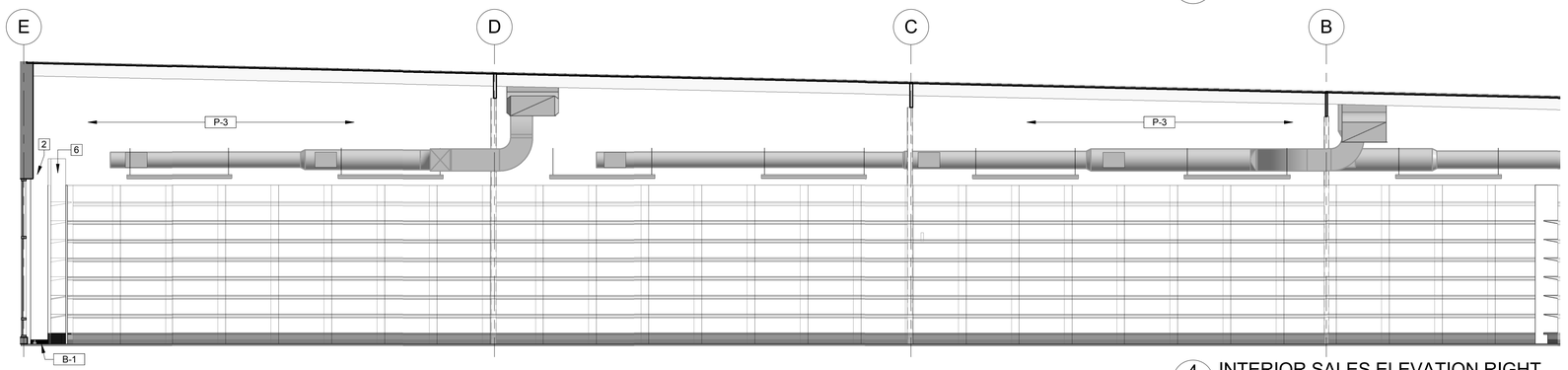
FINISH FLOOR

KEY HEIGHTS DIAGRAM
SCALE: 1/4" = 1'-0"



4 A5.1 INTERIOR SALES ELEVATION RIGHT
SCALE: 3/16" = 1'-0"

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INTERIOR ELEVATIONS

SHEET NO.
A5.1

VOC AND FORMALDEHYDE LIMITS

2016 California Green Building Code

FORM GRN 11

The tables below are taken from the 2016 California Green Building Code
Tables 4.504.1, 4.504.2, 4.504.3, 4.504.5, 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]
Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

COATING CATEGORY[2,3]	CURRENT LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
Specialty Coatings	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings[1]	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs	
Clear	730
Opaque	550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

[1] Grams of VOC per liter of coating, including water and including exempt compounds.
[2] The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
[3] Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million.

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

[1] Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.
[2] Thin medium density fiberboard has a maximum thickness of $\frac{5}{16}$ inches (8 mm).

SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous	250
Porous	775
Modified bituminous 500	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

ADHESIVE VOC LIMIT [1,2]
Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

[1] If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed.
[2] For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.

ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
SALES	VCT-1	B-1	FRP-3 TO 48" AFF ON EXPOSED WALLS P-3 ABOVE	OPEN TO DECK P-2	OPEN TO DECK	STOREFRONT COLUMNS TO BE PAINTED P-3 PAINT ALL OTHERS P-2
STOCKROOM	SC-1	B-1	P-1	OPEN TO DECK P-2	OPEN TO DECK	
RESTROOMS	SV-1	SV-1	FRP-2	EXISTING GYP. P-2	±8'-0"	PATCH AND REPAIR AS REQ'D. EXTEND GYP. CEILING FOR RESTROOM #1
HALLWAY	VCT-1	B-1	FRP-3 TO 48" AFF P-3 ABOVE	EXISTING GYP. P-2	±8'-0"	PATCH AND REPAIR AS REQ'D. EXTEND GYP. CEILING
OFFICE	VCT-1	B-1	P-1	ACT-1	9'-0"	
VESTIBULE	VCT-1	B-1	FRP-3 TO 48" AFF P-3 ABOVE	ACT-1	±13'-0"	• INSTALL ACT WITH HOLD DOWN CLIPS
BREAK ROOM	SV-1	SV-1	FRP-1 TO 48" AFF P-1 ABOVE	ACT-1	9'-0"	
EGRESS HALLWAY	VCT-1	B-1	FRP-3 TO 48" AFF P-3 ABOVE	ACT-1	9'-0"	
FITTING ROOMS	VCT-1	B-1	P-1	ACT-1	9'-0"	
JANITOR'S CLOSET	SV-1	SV-1	FRP-1 TO 48" AFF P-1 ABOVE	EXISTING GYP. P-1	± 8'-0"	

MATERIALS SCHEDULE

MARK	MATERIAL	DESCRIPTION
VCT-1	VINYL TILE	ARMSTRONG- EXCELON COMPANION SQUARE / PARTY WHITE 12" x 12" x 1/8" #51983. 1/4 TURN PATTERN
SC-1	CONCRETE SEALANT	L&M CONSTRUCTION CHEMICAL- DRESS AND SEAL WB30 SEALER, MIN. 2 COATS
SV-1	SHEET VINYL (ALT.)	ARMSTRONG MEDINTONE - H5303 ALMOST BLACK. G.C. TO CURVE UP WALL MIN. OF 6" WITH 3/8" COVE.
P-1	PAINT	BENJAMIN MOORE- NAVAJO WHITE #OC95, EGGSHELL FINISH
P-2	PAINT	BENJAMIN MOORE- WHITE HERON #OC57, FLAT FINISH OR SHERWIN WILLIAMS - BRILLIANT WHITE #B48W61 SUPER SAVE-LITE, DRYWALL FLAT FINISH (ALT)
P-3	PAINT	CALIFORNIA PAINTS- EYE CANDY #DE5943, EGGSHELL FINISH **(NO SUBSTITUTIONS)** OR DUNN EDWARDS - MARDI GRAS DE5943 **(NO SUBSTITUTIONS)**
FRP-1	FIBERGLASS PANEL	MARLITE COMPANY- COLOR: #P-100 WHITE, PEBBLE WITH MATCHING WHITE TRIM AT EDGES, ALL TRIMMED EDGES TO BE MITERED. HOLD FRP CONNECTORS 4" AFF.
FRP-2	FIBERGLASS PANEL	MARLITE COMPANY- SYMMETRIX WITH SANI-COAT, COLOR: C100-G44 WHITE- 4"X4" (MATCH TRIM AT EDGES) ALL TRIMMED EDGES TO BE MITERED. HOLD FRP CONNECTORS 6" AFF.
FRP-3	FIBERGLASS PANEL	MARLITE COMPANY- COLOR: #P619 PURPLE, PEBBLE WITH MATCHING TRIM AT EDGES, ALL TRIMMED EDGES TO BE MITERED. HOLD FRP CONNECTORS 4" AFF.
M-1	BREAK METAL	22 GA. FOR TUBE STEEL COL. WRAPS & 18 GA. FOR CUSTOM WRAPS. (RETAIL SPECIALTY INC.)
PL-1	PLASTIC LAMINATE	WILSONART- #D315 -6 COLOR: PLATINUM
B-1	VINYL BASE	JOHNSONITE- 4" COVE VINYL BASE, COLOR: BLACK
ACT-1	ACOUSTICAL CEILING	ARMSTRONG 24" X 48" X 5/8" "FISSURED" #755 WHITE CLASS 'A' PANEL IN FACTORY WHITE. WITH PRELUDE ML 15/16" EXPOSED TEE GRID - WHITE

FINISH NOTES

A. ALL SURFACES SHALL BE PREPARED AS REQUIRED IN ORDER TO RECEIVE NEW FINISHES.
B. ALL INTERIOR FINISHES SHALL BE CLASS "C" MINIMUM, UNLESS OTHERWISE NOTED.
C. ALL EXTERIOR FERROUS METAL (COLUMNS, DOORS, ETC.) SHALL BE PRIMED AND PAINTED WITH AN ALKYD ENAMEL AND APPROPRIATE PRIMER PER SPECIFIED COLOR.
D. ALL V.C.T. MUST BE DELIVERED CLEAN AND WAXED WITH A 20% SOLID CONTENT OR HIGHER FLOOR FINISH. POLYURETHANE BASED PRODUCTS ARE **NOT** TO BE USED.
E. PROVIDE A SMOOTH LEVEL TRANSITION BETWEEN ALL FLOOR FINISHES. FLASH PATCH AT FLOORING TRANSITIONS WHERE MATERIAL THICKNESS IS GREATER THAN 1/8" (MIN. 36")
F. CONTRACTOR TO PREPARE THE CONCRETE SLAB TO BE SMOOTH AND LEVEL PRIOR TO INSTALLING THE NEW FLOORING FINISHES.
G. ALL RETURN AIR GRILLES, SUPPLY DIFFUSERS AND ACCESS PANELS TO BE PAINTED TO MATCH THE SURROUNDING AREA.
H. ALL FIRE PANELS/BOXES TO BE RED. IF NOT MANUFACTURED TO BE RED, G.C. TO PAINT RED.
J. ALL FRP TO BE MITERED 45° WHEN JOINING AT CORNERS.

PAINT NOTES

WALLS:
- ALL STOCKROOM & OFFICE GYPSUM BOARD SURFACES SHALL BE PRIMED AND PAINTED (2) TWO COATS LATEX EGGSHELL WITH A SMOOTH FINISH. P-1
- ALL SALES AREA GYPSUM BOARD SURFACES SHALL BE PRIMED AND PAINTED (2) TWO COATS LATEX EGGSHELL ENAMEL WITH A SMOOTH FINISH. P-3
- ALL B-1 COVE BASE SHALL HAVE PREMOLDED CORNERS AT ALL 90° CORNERS.

CEILINGS:
- EXPOSED DECK, STRUCTURE AND EXISTING CONDUIT/PIPING AND NEW GALVANIZED CONDUIT. DUCT WORK, SPRINKLER LINES ETC. PAINT FLAT P-2 CEILING FINISH TO BE SMOOTH AND UNIFORM THROUGHOUT.

DOORS AND DOOR FRAMES:
-PAINT EACH SIDE AND ALL EDGES OF ALL PAINTABLE DOORS, FRAMES AND BUCKS, USE SEMI-GLOSS ENAMEL (2 COATS) OVER (1 COAT) OF ENAMEL WITH A SMOOTH FINISH.
SEE ELEVATIONS FOR PAINT COLORS.
-FOR ALL RESTROOM DOORS, PAINT P-1 ON RESTROOM SIDE AND PAINT P-3 ON HALLWAY SIDE.

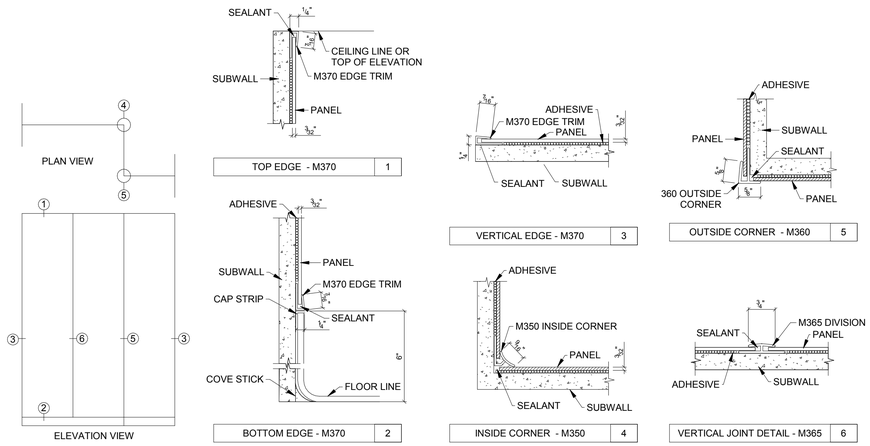
COLUMNS:
-PAINT P-2 EACH SIDE AND ALL EDGES OF ALL PAINTABLE SURFACES (3) THREE COATS FROM 48" A.F.F. TO DECK LEVEL. APPLY PAINT BEFORE THE APPLICATION OF METAL WRAP. M-1

ELECTRICAL DEVICES:
-PAINT ALL COVER PLATES, ETC TO MATCH WALL PAINT COLOR OF ADJACENT WALLS.

INTERIOR MATERIALS FIRE RATINGS

MATERIAL	FLAME SPREAD	SMOKE DENSITY	CLASSIFICATION
PRIMER	10	10	A
PAINT	15	5	A
PLASTIC LAMINATE	80 (BONDED)	95 (BONDED)	C
VINYL TILE	0.45	450 OR LESS	A
SHEET VINYL	0.45	450 OR LESS	A
LAY-IN CEILING	25	10	A
FRP	150	245	C
VINYL BASE	0.45	450 OR LESS	A

PER 803.1 OF THE 2003 INTERNATIONAL BUILDING CODE, INTERIOR FINISHES SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE DEVELOPMENT INDEXES
CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPMENT 0-450
CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPMENT 0-450
CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPMENT 0-450



1 A6.0 SHEET VINYL & FRP INSTALLATION
SCALE: 12" = 1'-0"

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE.
CHINO, CA 91710

LDG
Larson Design Group
1000 Commerce Park Dr
Suite 201
Williamsport, PA 17701
PHONE 570.323.6603
FAX 570.323.9902
www.larsondesigngroup.com
Architects Engineers Surveyors

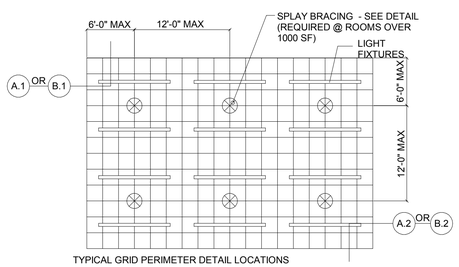
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APPV'D BY GWB

SHEET TITLE
ROOM FINISH SCHEDULE

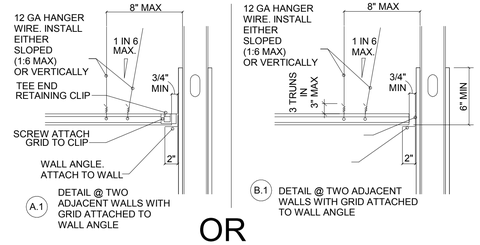
SHEET NO.
A6.0

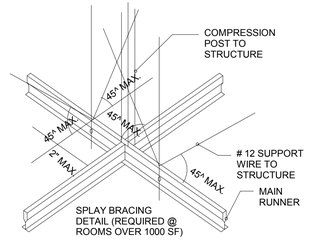
CATEGORY	REQUIREMENTS
CONNECTIONS/HANGERS	NOTE: USE HEAVY DUTY GRID
INTERSECTION STRENGTH	180 LBS
HANGERS	#12 @ 4' O.C./#10 @ 5' O.C.
PLUMB	NOT MORE THAN 1 IN 6 OR 10" FROM VERTICAL
CONNECTION DEVICES	MIN. 100LBS.
PERIMETER WIRES	MAXIMUM 8" FROM WALLS
SPLAY BRACING	NOTE: USE HEAVY DUTY GRID
4 WIRE CLUSTERS	REQUIRED OVER 1000 SF.
FIRST POINT	MAX. 6' FROM PERIMETER WALLS
SPACING	12' O.C.
CONNECTION STRENGTH	MIN. 200LBS.
COMPRESSION POSTS	REQUIRED (CONDUIT/STEEL STUD)
MOLDING/PARTITIONS	NOTE: USE HEAVY DUTY GRID
MOLDING	MIN. 2"
ATTACHMENT(NO MOVEMENT)	REQUIRED @ 2 ADJACENT WALLS
CLEARANCE (FREE TO MOVE)	3/4" @ 2 ADJACENT WALLS
SPACER BARS	REQUIRED
PARTITION ATTACHMENT	ALLOWED WITH BRACING, UNDER 2,500 SF.
LIGHTING/FIXTURES	NOTE: USE HEAVY DUTY GRID
LIGHTS LESS THAN 56LBS	2 CONNECTORS/2 SLACK WIRES
LIGHTS GREATER THAN 56LBS	SUSPEND FROM STRUCTURE, NOT GRID
MECHANICAL LESS THAN 20LBS	ATTACHED TO GRID
MECHANICAL GREATER THAN 20LBS, LESS THAN 56LBS	2 SLACK WIRES
MECHANICAL GREATER THAN 56LBS	SUSPEND FROM STRUCTURE, NOT GRID

GRID: MAX 4 LBS/SF, 1/360 MAX DEFLECTION.



TYPICAL GRID PERIMETER DETAIL LOCATIONS

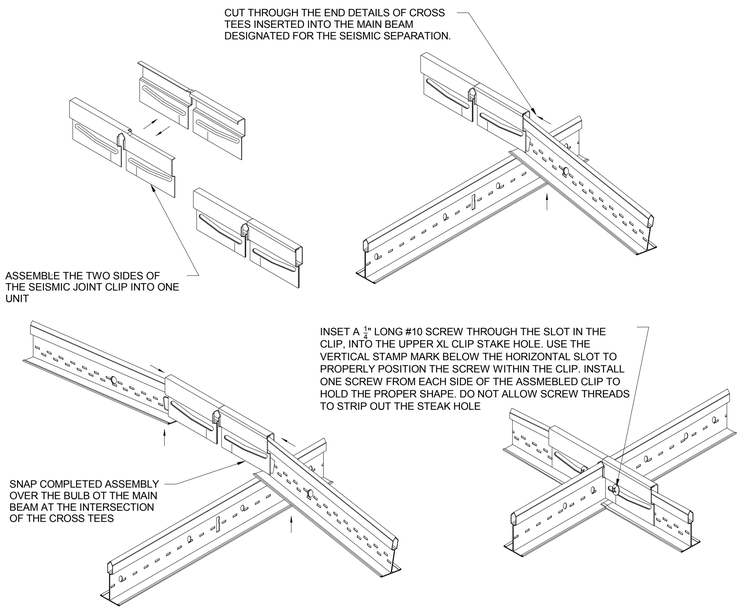




SUSPENSION SYSTEM FOR ACOUSTICAL LAY-IN CEILING TO COMPLY WITH SEISMIC DESIGN CATEGORY D REF: 2009 IBC; ASTM C 635, C 636 & E 580/E 580M; ASCE 7-05 AND CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION (CISCA). CODES LISTED IN ORDER OF PRECEDENCE.

1 A6.1 SEISMIC CEILING DETAIL

SCALE: NTS



2 A6.1 ARMSTRONG SEISMIC JOINT CLIP-CROSS TEE

SCALE: NTS

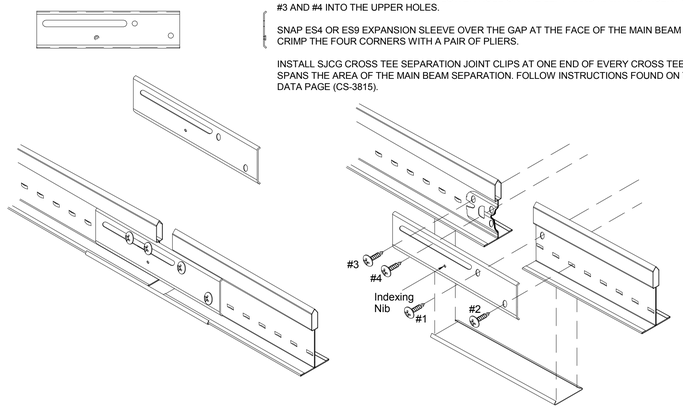
PREPARE THE MAIN BEAM SPLICE TO RECIEVE THE SEPARATION JOINT CLIP BY CUTTING THE LOCKING TAB FROM THE LEFT SIDE OF THE CONNECTION AND REMOVING $\frac{3}{4}$" FROM THE END OF THE BEAM ON THE RIGHT.

INSTALL THE CLIP USING SCREWS #1 AND #2 INSTALL THROUGH THE HOLES IN THE CLIP AND INTO THE RIGHT HAND MAIN BEAM.

ALIGN THE INDEXING NIB WITH THE LOWER HOLE ON THE LEFT HAND MAIN AND INSERT SCREWS #3 AND #4 INTO THE UPPER HOLES.

SNAP ES4 OR ES9 EXPANSION SLEEVE OVER THE GAP AT THE FACE OF THE MAIN BEAM AND CRIMP THE FOUR CORNERS WITH A PAIR OF PLIERS.

INSTALL SJCG CROSS TEE SEPARATION JOINT CLIPS AT ONE END OF EVERY CROSS TEE THAT SPANS THE AREA OF THE MAIN BEAM SEPARATION. FOLLOW INSTRUCTIONS FOUND ON THE SJCG DATA PAGE (CS-3815).



3 A6.1 ARMSTRONG SEISMIC JOINT CLIP-MAIN BEAM

SCALE: NTS

Party City
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DRAWN BY BCW

APP'VD BY GWB

SHEET TITLE

FINISH DETAILS

SHEET NO.

A6.1

STORE DATA

LINEAR FOOTAGE			
SEASONAL:	0	LN FT	28%
EVERYDAY:	0	LN FT	72%
TOTAL:	1,656	LN FT	
PLUS CARDS:	64	LN FT	
PLUS MYLAR DSP:	56	LN FT	
PLUS INSCRIBE/INVs:	ECK	LN FT	
SQUARE FOOTAGE			
SALES AREA:	0	SQ FT	88%
NON-SALES AREA:	0	SQ FT	12%
TOTAL:	19,945	SQ FT	

NOTE: FIXTURE LAYOUT SHOWN IS FOR REFERENCE ONLY AS A PREFERRED LAYOUT. OBTAIN THE APROVED FIXTURE PLAN AND STORE DATA DIRECTLY FROM PARTY CITY.

NOTE:
PROVIDE FIXTURE ANCHORAGE AS REQUIRED BY LOCAL AND STATE CODE.

NOTE:
G.C. TO VERIFY FLOORING ID IN GOOD CONDITION PRIOR TO ANCHORING FIXTURES.

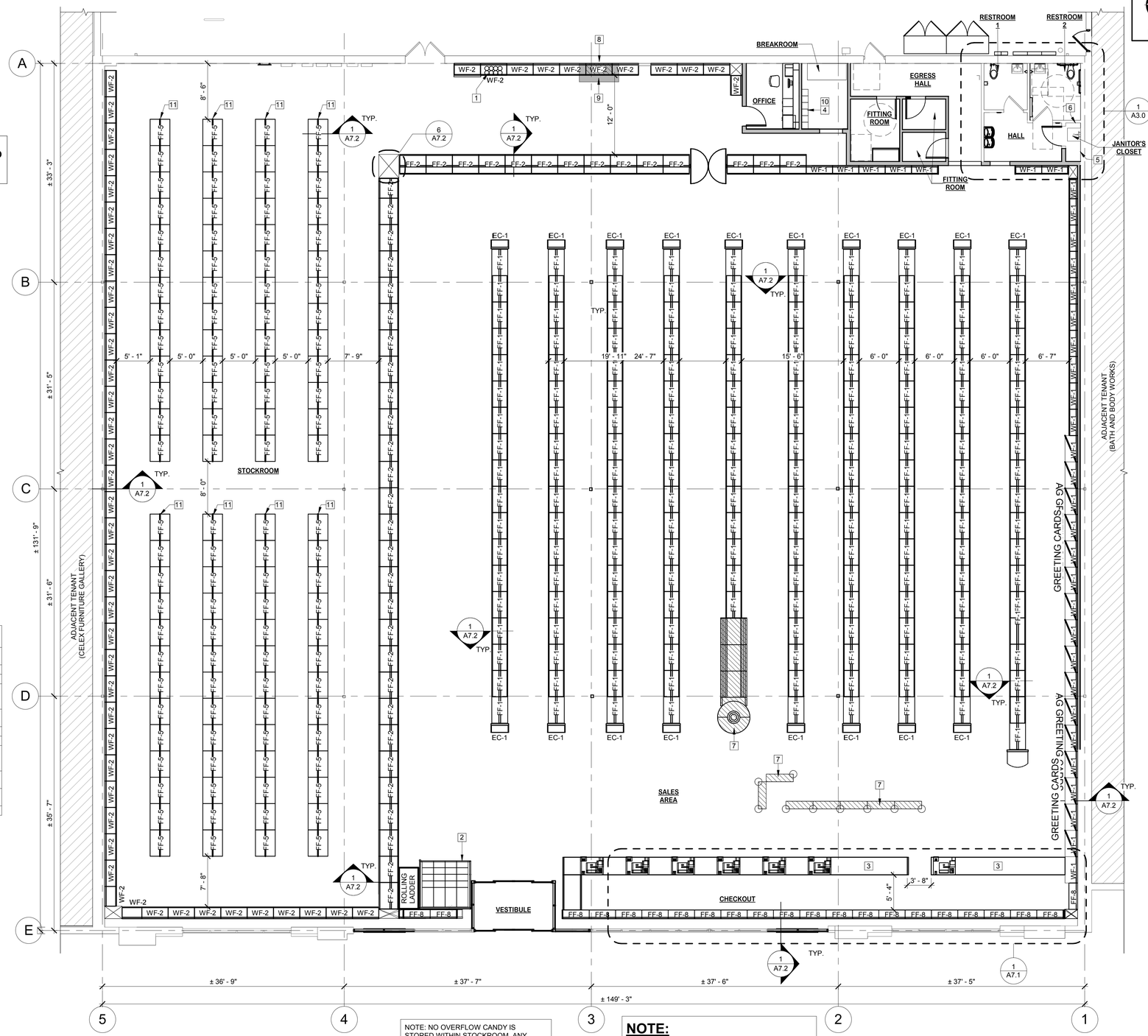
FIXTURE LEGEND

LABEL	SYMBOL	DESCRIPTION
WF-1		48"W X 144"H GONDOLA WALL UNIT (W/ 13" BASE) (AT SALES AREA) ANCHORED TO WALL
WF-2		48"W X 144"H GONDOLA WALL UNIT (W/ 19" BASE) (AT STOCKROOM) ANCHORED TO WALL
FF-1		48"W X 126"H (DOUBLE SIDED) ISLAND GONDOLA UNIT
FF-2		48"W X 144"H (DOUBLE SIDED) ISLAND GONDOLA CARD UNIT,
FF-3		48"W X 102"H (DOUBLE SIDED) ISLAND GONDOLA UNIT
FF-4		48"W X 102"H (SINGLE SIDED) GONDOLA ISLAND UNIT
FF-5	18"x48"	18"W X 48"L X 120"H LOZIER STOCKROOM SHELVING
FF-6	2'-2" 2'-6"	96"H LOZIER BUMP OUT UNIT
FF-7		48"W X 144"H (DOUBLE SIDED) ISLAND GONDOLA (W/ 13"/19" BASE)
FF-8		48"W X 186"H ISLAND GONDOLA (W/ 13" BASE)
FF-9		48"W X 54"H (DOUBLE SIDED) ROLLING ISLAND GONDOLA ON WHEELS NO ANCHORAGE REQ'D
EC-1		126"H GONDOLA ISLAND UNIT ENDCAP BOLTED DIRECTLY TO ISLAND UNIT.

NOTE: CONTACT PARTY CITY STRUCTURAL ENGINEER VENDOR FOR ADDITIONAL INFO AND SEISMIC DRAWINGS ON DETAILS.

KEYED NOTES

1	G.C. TO PROVIDE HEAVY DUTY 1/2" WELDED STEEL CHAIN PERMANENTLY SECURED TO WALL AND 4'X8' PLYWOOD BACKING. PROVIDE PERMANENT ANCHOR AT ONE SIDE AND HOOK AND I-BOLT AT OPPOSITE SIDE FOR SECUREMENT OF TANKS TO WALL.
2	CART CORRAL REF: 7 & 8/A7.2 FURNISHED AND INSTALLED BY TENANT.
3	COUNTER HEIGHT TO BE 34" A.F.F. MAX. FURNISHED AND INSTALLED BY TENANT.
4	TENANT TO PROVIDE (16) BOX LOCKERS BY GRAINGER, ITEM # 4HE43, FOR EMPLOYEE STORAGE OF PERSONAL ITEMS. SV-1 SHEET VINYL FLOORING AND FRP-1 TO BE INSTALLED BELOW AND BEHIND LOCKERS TO A MIN. OF 12" BEYOND AND ABOVE. REF: F/A3.1
5	G.C. TO PROVIDE SUPPLY SHELF AS INDICATED NEXT TO NEW MOP SINK FOR STORAGE OF ALL CLEANING CHEMICALS. BOBRICK, ITEM # B-295X24. SEE DTL. H/A3.0.
6	NEW MOP AND BROOM HOLDER, REF: RESTROOM ACCESSORIES SCHEDULE, SHEET G/A3.0.
7	PREPACKAGED CANDY/FOOD DISPLAY AREA SHOWN HATCHED. 104 SF OF FLOOR AREA.
8	PREPACKAGED CANDY/FOOD STORAGE AREA SHOWN HATCHED, 8 SF OF FLOOR AREA. CHROME WIRE SHELF UNIT TO BE USED FOR STORAGE. EAGLE MODEL # 1848C. AS REQ'D BY AHJ, SV-1 SHEET VINYL FLOORING AND FRP-1 TO BE INSTALLED BELOW AND BEHIND STORAGE AREA TO A MIN. OF 12" BEYOND AND ABOVE. REF: 2/A3.0
9	A MIN. OF 48"X48" SV-1 FLOORING TO BE INSTALLED BELOW MOP SINK. FRP-1 TO BE INSTALLED UP TO 48" AFF AND EXTEND FULL LENGTH OF SV-1 ON ALL WALLS TOUCHING. REF: 2/A3.0,G, & H/A3.0
10	SV-1 FLOORING TO BE INSTALLED BELOW TABLE AND EXTEND 12" BEYOND ON THE SIDES W/ A MIN. DEPTH OF 48". FRP-1 TO BE INSTALLED ON WALL BEHIND UP TO 48" AFF AND EXTEND FULL LENGTH OF SV-1. RED: F/A3.1
11	APPLY A MIN. 3/8" PLYWOOD BACKING BETWEEN FF-5 FIXTURES.



1 A7.0 FIXTURE PLAN
SCALE: 1/8" = 1'-0"

NOTE: NO OVERFLOW CANDY IS STORED WITHIN STOCKROOM. ANY OVERFLOW CANDY IS STORED IN THE CANDY CABINETS ON THE SALES FLOOR.

NOTE:
REFERENCE SHEET A7.2 FOR ALL FIXTURE ANCHORAGE DETAILS.

PLAN NORTH

Party City
25 Green Pond Road
Rockaway, NJ 07866

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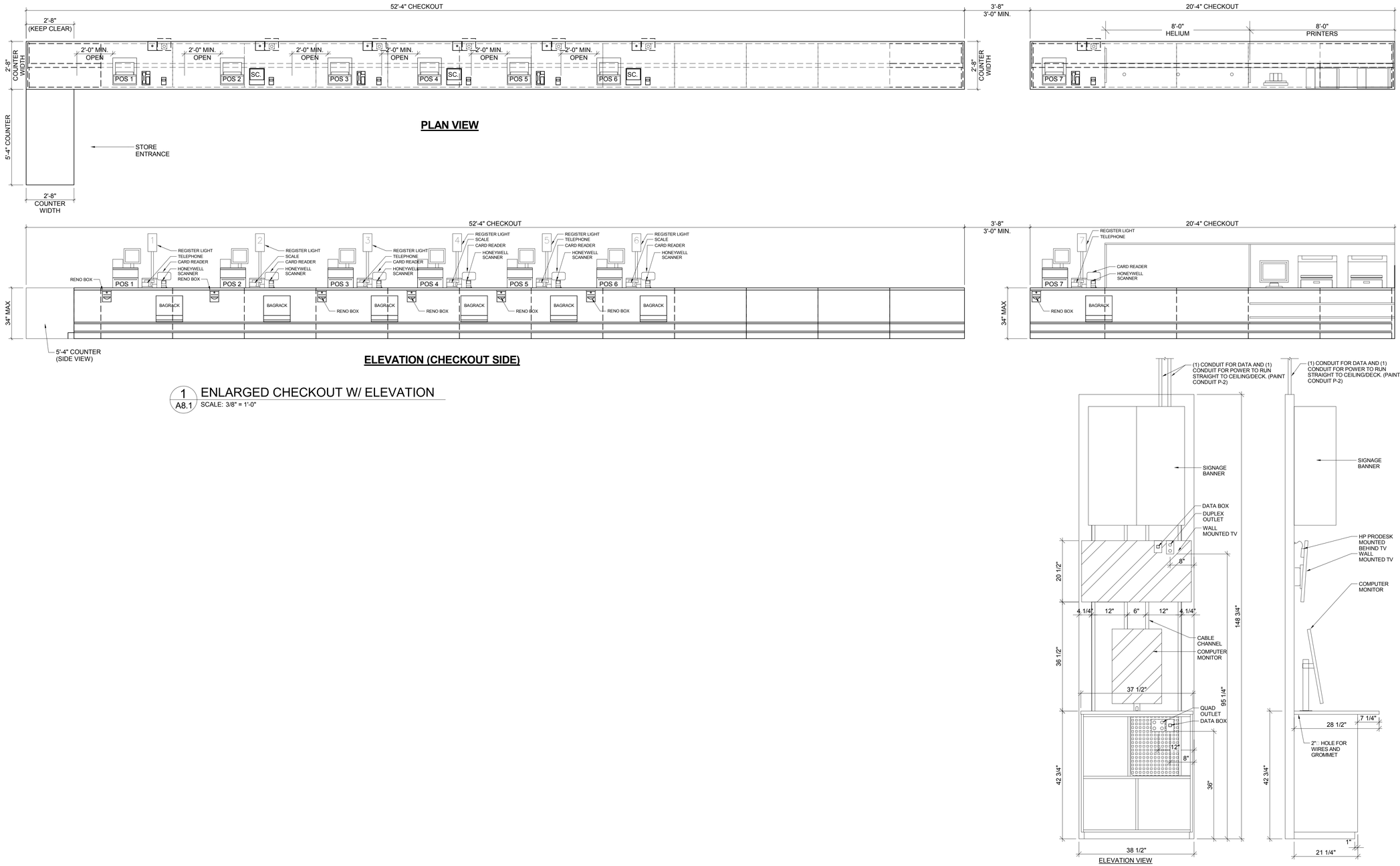
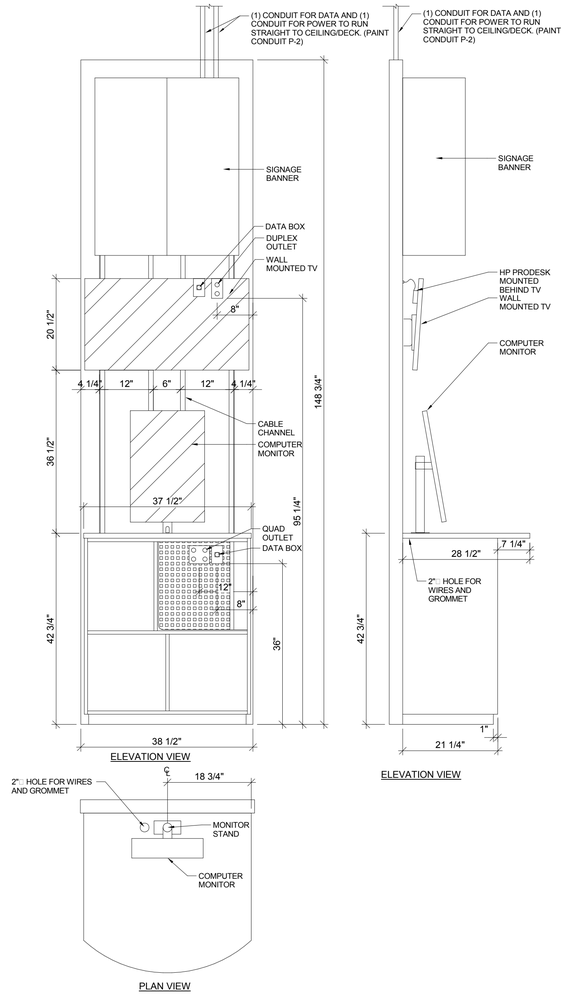
SHEET TITLE
FIXTURE PLAN

SHEET NO.
A7.0



1 A8.1 ENLARGED CHECKOUT W/ ELEVATION

SCALE: 3/8" = 1'-0"



2 A7.1 INSCRIBE KIOSK DETAIL

SCALE: 3/4" = 1'-0"

Party City

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DRAWN BY BCW

APP'D BY GWB

SHEET TITLE
ENLARGED CHECKOUT DETAILS

SHEET NO.
A7.1

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE 2016 CBC AND THESE NOTES.
- ANCHOR ROD SIZE, POSITIONING, AND EMBEDMENT SHALL BE INSPECTED PER HILTI REQUIREMENTS AND ALL APPLICABLE NOTES ON THIS DRAWING DURING AND AFTER CONSTRUCTION.

NOTE: FIXTURING CONTRACTOR TO PROVIDE A PERMANENT INFORMATION PLAQUE IN BOTH SALES AREA & STOCKROOM (50 SQUARE INCHES MIN.) USING CLEAR, LEGIBLE PRINT NOTING THE FOLLOWING:

1. MAX. PERMISSABLE UNIT LOAD AND/OR MAX. UNIFORMLY DISTRIBUTED LOAD PER LEVEL
2. AVERAGE UNIT LOAD IF APPLICABLE
3. MAX TOTAL LOAD PER BAY (EACH BAY BEING EQUAL TO 80 LBS PER LEVEL OF EACH SPECIFIC SHELVING UNIT

SEISMIC DESIGN DATA (SHELVING - ALL)

- Ss = 173.4 %g
- S = 61.9 %g
- SOIL SITE CLASS "D"
- SEISMIC IMPORTANCE FACTOR = 1.50
- RESPONSE MODIFICATION FACTOR = 2.50

- 2016 CALIFORNIA BUILDING CODE (CBC)
- 2015 INTERNATIONAL BUILDING CODE (IBC)
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2010 EDITION (7-10)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATION FOR THE DESIGN, TESTING, AND UTILIZING OF INDUSTRIAL STEEL STORAGE RACK
- 4" THICK CONCRETE FLOOR SLAB WITH f'c = 2500 PSI
- "ACCEPTABLE DESIGN AND ANALYSIS METHODS FOR USE OF SLAB-ON-GRADE AS FOUNDATIONS" BY THE CITY OF LOS ANGELES, EFFECTIVE 5-10-04.

OCCUPANCY

- GROUP "M" CLASSIFICATION
- CATEGORY III

GRAVITY LOADING

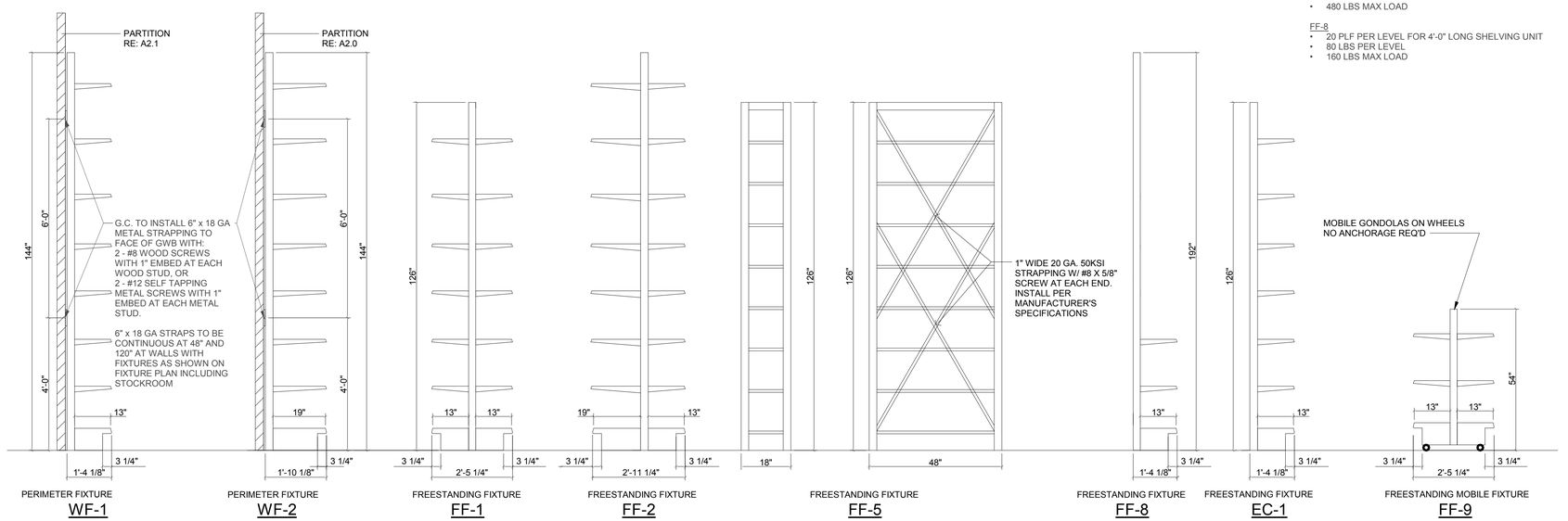
WF-1, WF-2
- 20 PLF PER LEVEL FOR 4'-0" LONG SHELVING UNIT
- 80 LBS PER LEVEL
- 560 LBS MAX LOAD

FF-1
- 20 PLF PER LEVEL FOR 4'-0" LONG SHELVING UNIT
- 160 LBS PER LEVEL
- 960 LBS MAX LOAD

EC-1
- 20 PLF PER LEVEL FOR 2'-6" LONG SHELVING UNIT
- 50 LBS PER LEVEL
- 300 LBS MAX LOAD

FF-6
- 20 PLF PER LEVEL FOR 4'-0" LONG SHELVING UNIT
- 80 LBS PER LEVEL
- 480 LBS MAX LOAD

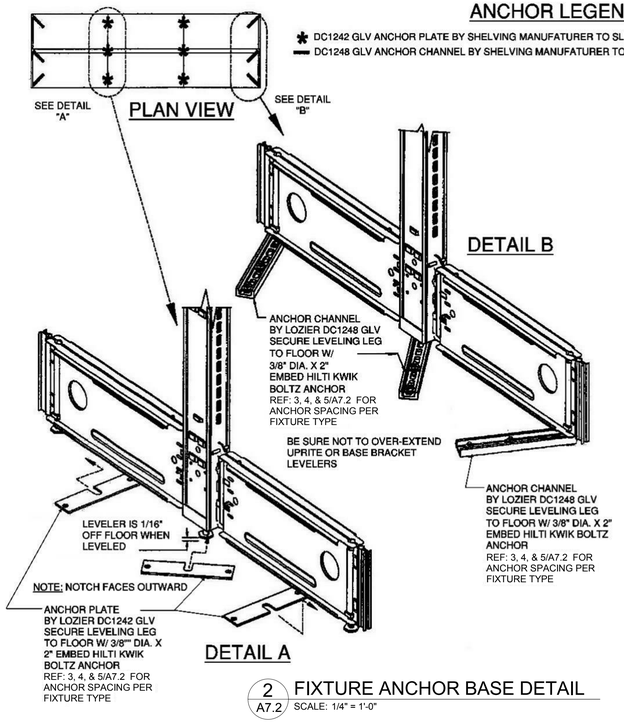
FF-8
- 20 PLF PER LEVEL FOR 4'-0" LONG SHELVING UNIT
- 80 LBS PER LEVEL
- 160 LBS MAX LOAD



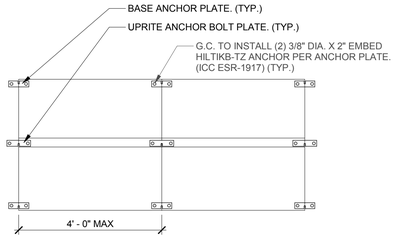
1 / A7.2 DISPLAY FIXTURE SECTIONS - REINFORCED
SCALE: 1/2" = 1'-0"

ANCHOR LEGEND

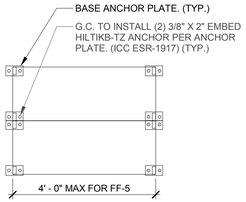
✱ DC1242 GLV ANCHOR PLATE BY SHELVING MANUFATURER TO SLIDE OVER LEVELING LEG
— DC1248 GLV ANCHOR CHANNEL BY SHELVING MANUFATURER TO SLIDE OVER LEVELING LEG



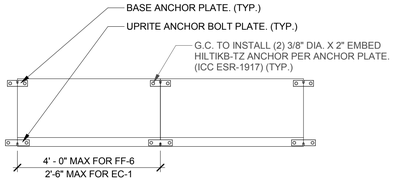
2 / A7.2 FIXTURE ANCHOR BASE DETAIL
SCALE: 1/4" = 1'-0"



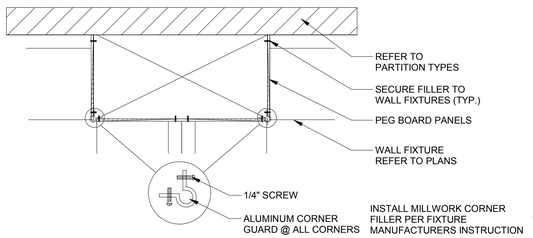
3 / A7.2 ANCHOR DETAIL - FF-1, FF-2
SCALE: 1/2" = 1'-0"



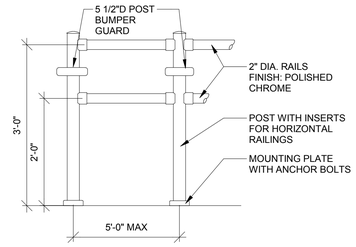
4 / A7.2 ANCHOR DETAIL - FF-5
SCALE: 1/2" = 1'-0"



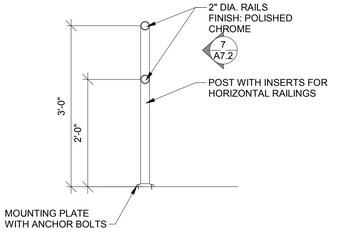
5 / A7.2 ANCHOR DETAIL - WF-1, WF-2, FF-8, EC-1
SCALE: 1/2" = 1'-0"



6 / A7.2 DISPLAY FIXTURE CORNER FILLER SECTION
SCALE: 3/4" = 1'-0"



7 / A7.2 CART CORRAL ELEVATION 1
SCALE: 3/4" = 1'-0"



8 / A7.2 CART CORRAL ELEVATION 2
SCALE: 3/4" = 1'-0"

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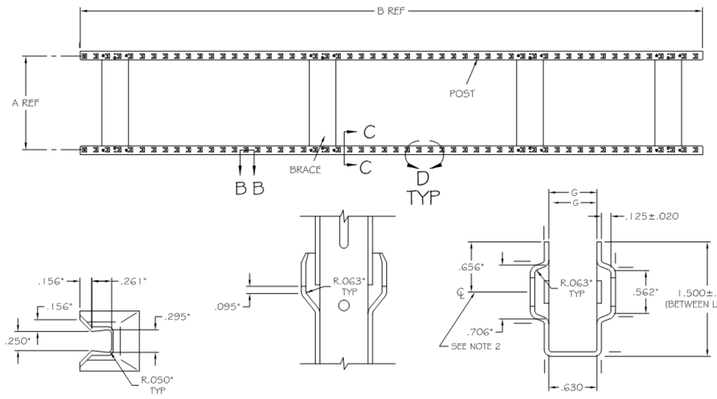
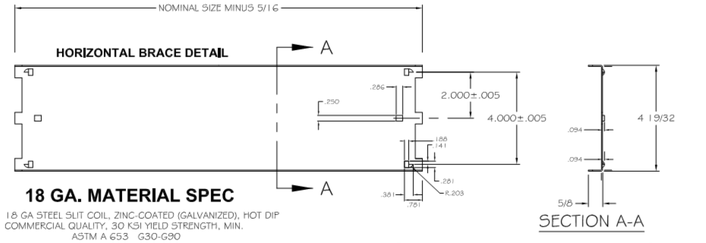
A7.2

16 GA. GALVANIZED MATERIAL

STEEL, COMMERCIAL QUALITY, 30 KSI MINIMUM YIELD STRENGTH,
HOT DIP GALVANIZED PER ASTM A653, GRADE G30 OR BETTER.
THICKNESS: .060 MINIMUM.





18 GA. MATERIAL SPEC

18 GA STEEL SLIT COIL, ZINC-COATED (GALVANIZED), HOT DIP COMMERCIAL QUALITY, 30 KSI YIELD STRENGTH, MIN. ASTM A 653 G30-G90

UPRITE ASSEMBLY DETAILS

LOZIER
6336 PERSHING DR.
OMAHA, NE 68110
1-800-228-9882

S-SERIES STORAGE SHELVING

US PATENT NO. 6,085,918 SHEET 1 OF 3

6	192	28 1/4	55U30192N
6	186	28 1/4	55U30186N
5	180	28 1/4	55U30180N
5	174	28 1/4	55U30174N
5	168	28 1/4	55U30168N
5	162	28 1/4	55U30162N
5	156	28 1/4	55U30156N
5	150	28 1/4	55U30150N
5	144	28 1/4	55U30144N
5	138	28 1/4	55U30138N
4	132	28 1/4	55U30132N
4	126	28 1/4	55U30126N
4	120	28 1/4	55U30120N
4	114	28 1/4	55U30114N
4	108	28 1/4	55U30108N
4	102	28 1/4	55U30102N
3	96	28 1/4	55U30096N
3	90	28 1/4	55U30090N
3	84	28 1/4	55U30084N
3	78	28 1/4	55U30078N
3	72	28 1/4	55U30072N
3	66	28 1/4	55U30066N
3	60	28 1/4	55U30060N
3	54	28 1/4	55U30054N
2	48	28 1/4	55U30048N
2	42	28 1/4	55U30042N
2	40	28 1/4	55U30040N
2	36	28 1/4	55U30036N
2	30	28 1/4	55U30030N
2	24	28 1/4	55U30024N
2	18	28 1/4	55U30018N
1	12	28 1/4	55U30012N
6	192	22 1/4	55U24192N
6	186	22 1/4	55U24186N
5	180	22 1/4	55U24180N
5	174	22 1/4	55U24174N
5	168	22 1/4	55U24168N
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5	150	22 1/4	55U24150N
5	144	22 1/4	55U24144N
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4	132	22 1/4	55U24132N
4	126	22 1/4	55U24126N
4	120	22 1/4	55U24120N
4	114	22 1/4	55U24114N
4	108	22 1/4	55U24108N
4	102	22 1/4	55U24102N
3	96	22 1/4	55U24096N
3	90	22 1/4	55U24090N
3	84	22 1/4	55U24084N
3	78	22 1/4	55U24078N
3	72	22 1/4	55U24072N
BRACE QTY	B	A	PART NUMBER

UPRITE ASSEMBLY DETAIL

LOZIER
6336 PERSHING DR.
OMAHA, NE 68110
1-800-228-9882

S-SERIES STORAGE SHELVING

US PATENT NO. 6,085,918 SHEET 2 OF

3	66	22 1/4	55U24066N
3	60	22 1/4	55U24060N
3	54	22 1/4	55U24054N
2	48	22 1/4	55U24048N
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2	30	22 1/4	55U24030N
2	24	22 1/4	55U24024N
2	18	22 1/4	55U24018N
1	12	22 1/4	55U24012N
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5	180	16 1/4	55U18180N
5	174	16 1/4	55U18174N
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4	108	16 1/4	55U18108N
4	102	16 1/4	55U18102N
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3	54	16 1/4	55U18054N
2	48	16 1/4	55U18048N
2	42	16 1/4	55U18042N
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2	36	16 1/4	55U18036N
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2	18	16 1/4	55U18018N
1	12	16 1/4	55U18012N
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3	84	14 1/4	55U16084N

3	96	12 1/4	55U
6	192	10 1/4	55U
6	186	10 1/4	55U
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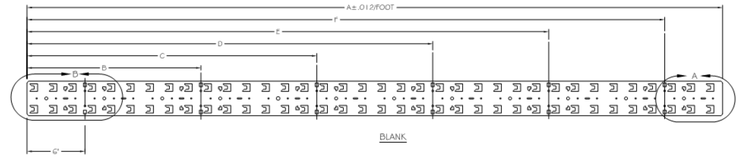
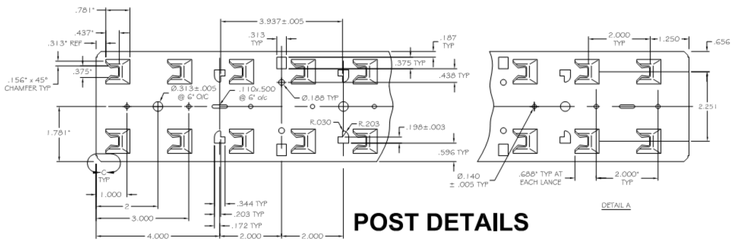
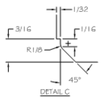
5	168	10 1/4	55U
5	162	10 1/4	55U
5	156	10 1/4	55U
5	150	10 1/4	55U
5	144	10 1/4	55U
4	138	10 1/4	55U
4	132	10 1/4	55U
4	126	10 1/4	55U
4	120	10 1/4	55U
4	114	10 1/4	55U
4	108	10 1/4	55U
4	102	10 1/4	55U
3	96	10 1/4	55U
3	90	10 1/4	55U
3	84	10 1/4	55U
3	78	10 1/4	55U
3	72	10 1/4	55U
3	66	10 1/4	55U
3	60	10 1/4	55U
3	54	10 1/4	55U
2	48	10 1/4	55U
2	42	10 1/4	55U
2	40	10 1/4	55U
2	36	10 1/4	55U
2	30	10 1/4	55U
2	24	10 1/4	55U
2	18	10 1/4	55U
1	12	10 1/4	55U
BRACE QTY	B	A	P NUI

BRACE LOCATIONS





POST DETAILS



186	162	126	90	54	192
180	156	120	84	48	186
---	174	138	102	54	180
---	168	132	96	54	174
---	162	126	90	54	168
---	---	---	---	54	162
F	E	D	C	B	A

---	156	120	84	48	162
---	150	114	78	42	156
---	144	114	78	42	150
---	138	108	78	42	144
---	132	102	72	42	138
---	---	126	90	54	132
---	---	120	84	48	126
---	---	114	78	42	120
---	---	108	78	42	114
---	---	102	72	42	108
---	---	96	66	36	102
---	---	---	90	54	96
---	---	---	84	48	90
F	E	D	C	B	A

---	---	---	78	42	84
---	---	---	72	42	78
---	---	---	66	42	72
---	---	---	60	36	66
---	---	---	54	30	60
---	---	---	48	30	54
---	---	---	---	42	48
---	---	---	---	36	42
---	---	---	---	30	36
---	---	---	---	24	30
---	---	---	---	18	24
---	---	---	---	12	18
---	---	---	---	---	12
F	E	D	C	B	A

LOZIER
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OMAHA, NE 68110
1-800-228-9882

S-SERIES STORAGE SHELVING

US PATENT NO. 6,085,918 SHEET 3 OF 3

LOZIER MATERIAL SPECIFICATIONS
4/28/09

UPRITES
· UPRITE FACE CHANNEL - HOT ROLLED STEEL CHANNEL WITH 3/16 (.187 MINIMUM) THICK FACE

· UPRITE SIDE RAIL - 18 GAGE HIGH STRENGTH LOW ALLOY (HSLA) STEEL IN ACCORDANCE WITH ASTM A607, GRADE 45 (45,000 LB. MINIMUM YIELD STRENGTH)

BASE BRACKETS
· BASE BRACKET HALVES - 18 GAGE HIGH STRENGTH STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A607, GRADE 45 (45,000 LB. MINIMUM YIELD STRENGTH)

· BASE BRACKET HOOK - DOUBLE THICKNESS 12 GAGE COLD ROLLED FULL HARD STEEL, 107,000 P.S.I. MINIMUM TENSILE STRENGTH, 95,000 P.S.I. MINIMUM YIELD STRENGTH

SHELVES AND DECKS
· TOPS - 22 GAGE COLD ROLLED COMMERCIAL QUALITY STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A366.

· HAT CHANNELS - SHELVES AND DECKS USE 24 GAGE COLD ROLLED COMMERCIAL QUALITY STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A366.

· SHELF BRACKETS - 12 GA.(7 D-15 D) OR 11 GA. (16 D AND GREATER) COLD ROLLED FULL HARD STEEL, 107,000 P.S.I. MINIMUM TENSILE STRENGTH, 95,000 P.S.I. MINIMUM YIELD STRENGTH

BACK MATERIAL

· 7/32 MEDIUM DENSITY FIBERBOARD (MDF)

· 150 LB. PER SIDE LOAD CAPACITY WITH STANDARD DUTY BOTTOM RAILS
300 LB. PER SIDE LOAD CAPACITY WITH HEAVY DUTY BOTTOM RAILS

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
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PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

Party City
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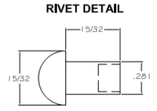
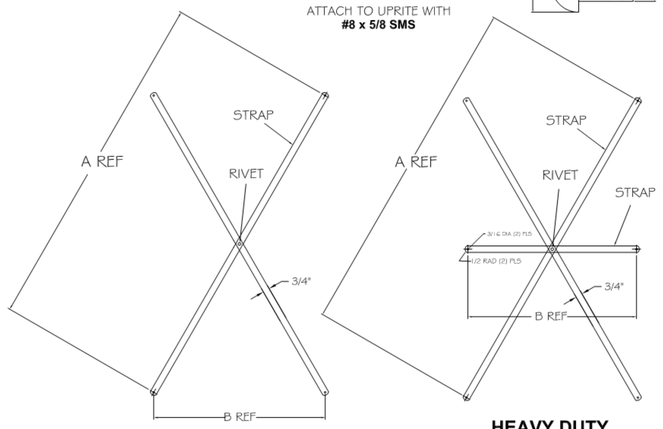
Architects Engineers Surveyors

PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
FIXTURE DETAILS
SHEET NO.
A7.3

RIVET DETAIL



ATTACH TO UPRITE WITH
#8 x 5/8 SMS



REGULAR DUTY

48	80	55X472RD
48	56 19/32	55X436RD
48	51 1/4	55X424RD
48	48 3/4	55X412RD
48	78 1/4	55X4572RD
48	76 1/2	55X4272RD
48	51 5/8	55X423GRD
48	45 11/16	55X4224RD
36	73 7/16	55X372RD
36	46 7/8	55X336RD
36	40 1/4	55X324RD
24	38 13/32	55X236RD
12	18 3/8	55X118RD
B	A	DWG NO

HEAVY DUTY

48	100 1/4	55X48120HD
48	80	55X472HD
48	76 1/4	55X4572HD
42	76 1/2	55X4272HD
36	95 11/16	55X36120HD
36	73 7/16	55X372HD
30	72 1/2	55X3072HD
24	70 7/32	55X272HD
B	A	PART NUMBER

16 G. GALVANIZED MATERIAL

STEEL, COMMERCIAL QUALITY, 30 KSI MINIMUM YIELD STRENGTH, AIM FOR 60 MAXIMUM HARDNESS ON ROCKWELL "B" SCALE.
HOT DIP GALVANIZED PER ASTM A653, GRADE G30 OR BETTER.
THICKNESS: .060 MINIMUM.

CROSSBRACE DETAILS

LOZIER
6336 PERSHING DR.
OMAHA, NE 68110
1-800-228-9882

S-SERIES STORAGE SHELVING

SHEET 1 OF 1

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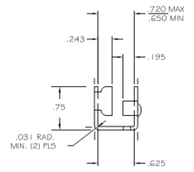
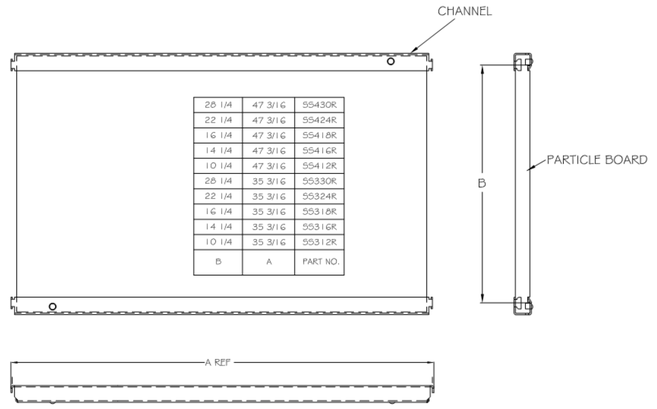
16 GA SHELF CHANNEL

Hot dip galvinized coil steel (grade G30 or better.)

Material to meet ASTM spec. A525
Thickness: .062" min. 2.65 lb/sq. ft.
Hardness: RB60 Max.





28 1/4	47 3/16	55430R
22 1/4	47 3/16	55424R
16 1/4	47 3/16	55418R
14 1/4	47 3/16	55416R
10 1/4	47 3/16	55412R
28 1/4	35 3/16	55330R
22 1/4	35 3/16	55324R
16 1/4	35 3/16	55318R
14 1/4	35 3/16	55316R
10 1/4	35 3/16	55312R
B	A	PART NO.

REGULAR DUTY SHELF DETAILS

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S-SERIES STORAGE SHELVING

SHEET 1 OF 1

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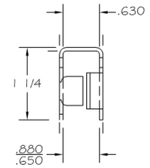
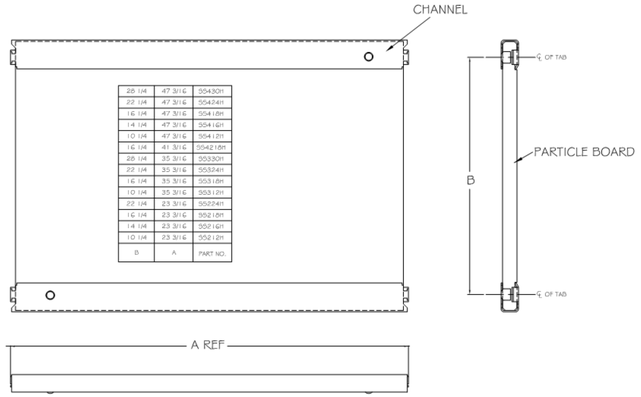
16 GA SHELF CHANNEL

STEEL, COMMERCIAL QUALITY, 30 KSI MINIMUM YIELD STRENGTH, AIM FOR 60 MAXIMUM HARDNESS ON ROCKWELL "B" SCALE.

HOT DIP GALVANIZED PER ASTM A653, GRADE G30 OR BETTER.

THICKNESS: .060 MINIMUM.





28 1/4	47 3/16	55430H
22 1/4	47 3/16	55424H
16 1/4	47 3/16	55418H
14 1/4	47 3/16	55416H
10 1/4	47 3/16	55412H
16 1/4	41 3/16	55421BH
28 1/4	35 3/16	55330H
22 1/4	35 3/16	55324H
16 1/4	35 3/16	55318H
10 1/4	35 3/16	55312H
22 1/4	23 3/16	55224H
16 1/4	23 3/16	55218H
14 1/4	23 3/16	55216H
10 1/4	23 3/16	55212H
B	A	PART NO.

HEAVY DUTY SHELF DETAILS

LOZIER
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OMAHA, NE 68110
1-800-228-9882

S-SERIES STORAGE SHELVING

SHEET 1 OF 1

LOZIER MATERIAL SPECIFICATIONS
4/28/09

UPRITES
· UPRITE FACE CHANNEL - HOT ROLLED STEEL CHANNEL WITH 3/16 (.187 MINIMUM) THICK FACE

· UPRITE SIDE RAIL - 18 GAGE HIGH STRENGTH LOW ALLOY (HSLA) STEEL IN ACCORDANCE WITH ASTM A607, GRADE 45 (45,000 LB. MINIMUM YIELD STRENGTH)

BASE BRACKETS
· BASE BRACKET HALVES - 18 GAGE HIGH STRENGTH STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A607, GRADE 45 (45,000 LB. MINIMUM YIELD STRENGTH)

· BASE BRACKET HOOK - DOUBLE THICKNESS 12 GAGE COLD ROLLED FULL HARD STEEL, 107,000 P.S.I. MINIMUM TENSILE STRENGTH, 95,000 P.S.I. MINIMUM YIELD STRENGTH

SHELVES AND DECKS
· TOPS - 22 GAGE COLD ROLLED COMMERCIAL QUALITY STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A366.

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BACK MATERIAL

· 7/32 MEDIUM DENSITY FIBERBOARD (MDF)

· 150 LB. PER SIDE LOAD CAPACITY WITH STANDARD DUTY BOTTOM RAILS
300 LB. PER SIDE LOAD CAPACITY WITH HEAVY DUTY BOTTOM RAILS

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

Party City
STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE. CHINO, CA 91710

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1000 Commerce Park Dr
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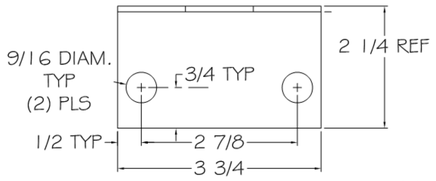
www.larsondesigngroup.com
Architects Engineers Surveyors

PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY BCW
APP'D BY GWB
SHEET TITLE
FIXTURE DETAILS
SHEET NO.
A7.4

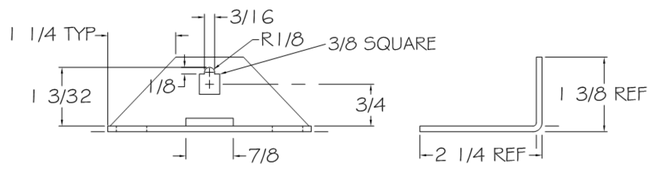
MATERIAL:

12 GA. ASTM A526 COMMERCIAL QUALITY GALVANIZED SHEET OR

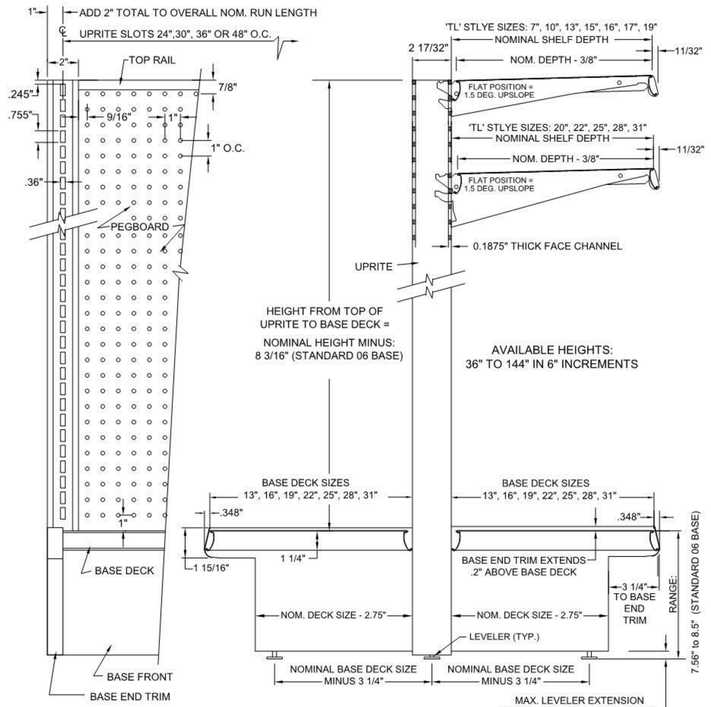
12 GA. HOT ROLLED COMMERCIAL QUALITY SHEET PICKLED AND OILED



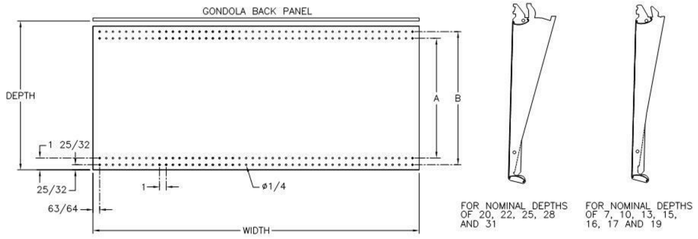
includes #10 x 5/8" sheet metal screw to attach to storage shelving uprite



BASIC SHELVING SYSTEM DIMENSIONS



BASIC SHELF DIMENSIONS AND TOLERANCES



WIDTH INFORMATION

PART NUMBER	NOMINAL WIDTH	ACTUAL WIDTH	# OF HOLES ACROSS
TL24_N	24	23 31/32"	23
TL30_N	30	29 31/32"	29
TL3_N	36	35 31/32"	35
TL4_N	48	47 31/32"	47

DEPTHS: 7", 10", 13", 15", 16", 17", 19", 20", 22", 25", 28", 31"

DEPTH INFORMATION

PART NUMBER	NOMINAL '0' DEPTH	ACTUAL DEPTH	A' DIMENSION	B' DIMENSION
TL_07N	7"	6 5/8"	3"	5"
TL_10N	10"	9 5/8"	6"	8"
TL_13N	13"	12 5/8"	9"	11"
TL_15N	15"	14 5/8"	11"	13"
TL_16N	16"	15 5/8"	12"	14"
TL_17N	17"	16 5/8"	13"	15"
TL_19N	19"	18 5/8"	15"	17"
TL_20N	20"	19 5/8"	16"	18"
TL_22N	22"	21 5/8"	18"	20"
TL_25N	25"	24 5/8"	21"	23"
TL_28N	28"	27 5/8"	24"	26"
TL_31N	31"	30 5/8"	27"	29"

WIDTHS: 24", 30", 36", 48"

LOZIER MATERIAL SPECIFICATIONS
4/28/09

UPRITES
· UPRITE FACE CHANNEL - HOT ROLLED STEEL CHANNEL WITH 3/16 (.187 MINIMUM) THICK FACE

· UPRITE SIDE RAIL - 18 GAGE HIGH STRENGTH LOW ALLOY (HSLA) STEEL IN ACCORDANCE WITH ASTM A607, GRADE 45 (45,000 LB. MINIMUM YIELD STRENGTH)

BASE BRACKETS
· BASE BRACKET HALVES - 18 GAGE HIGH STRENGTH STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A607, GRADE 45 (45,000 LB. MINIMUM YIELD STRENGTH)

· BASE BRACKET HOOK - DOUBLE THICKNESS 12 GAGE COLD ROLLED FULL HARD STEEL, 107,000 P.S.I. MINIMUM TENSILE STRENGTH, 95,000 P.S.I. MINIMUM YIELD STRENGTH

SHELVES AND DECKS
· TOPS - 22 GAGE COLD ROLLED COMMERCIAL QUALITY STEEL IN ACCORDANCE WITH ASTM SPECIFICATION A366.

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BACK MATERIAL

· 7/32 MEDIUM DENSITY FIBERBOARD (MDF)

· 150 LB. PER SIDE LOAD CAPACITY WITH STANDARD DUTY BOTTOM RAILS
300 LB. PER SIDE LOAD CAPACITY WITH HEAVY DUTY BOTTOM RAILS

WIDE SPAN AND STORAGE SHELVING

LOZIER
6336 PERSHING DR.
OMAHA, NE 68110
1-800-228-9882

ANCHOR PLATE DETAILS

SHEET 1 OF 1

LOZIER
6336 PERSHING DR. OMAHA, NE 68110 1-800-228-9882

11-09-01

LOZIER
6336 PERSHING DR. OMAHA, NE 68110 1-800-228-9882

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Architects Engineers Surveyors

PROTO NO. 1703

PROJECT NO. 8099-196

DRAWN BY BCW

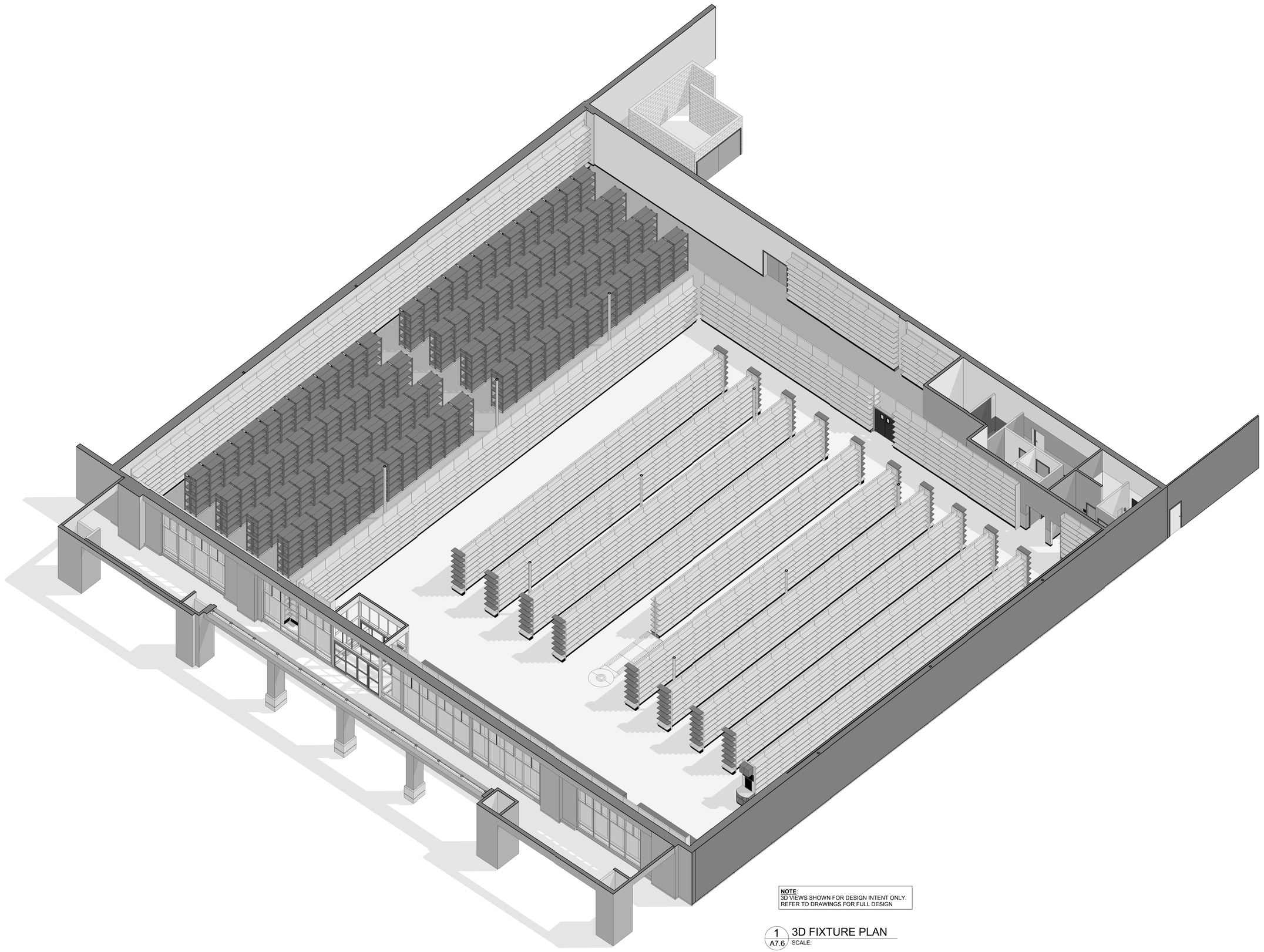
APPV'D BY GWB

SHEET TITLE

FIXTURE DETAILS

SHEET NO.

A7.5



NOTE:
3D VIEWS SHOWN FOR DESIGN INTENT ONLY.
REFER TO DRAWINGS FOR FULL DESIGN

1 A7.6 3D FIXTURE PLAN
SCALE:

Party City
25 Green Pond Road
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PROTO NO. 1703

PROJECT NO. 8099-196

DRAWN BY BCW

APP'D BY GWB

SHEET TITLE

3D FIXTURE PLAN

SHEET NO.

A7.6

GENERAL REQUIREMENTS

A. GENERAL

1. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY ENGINEER'S AND/OR OWNER.
2. VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN BID.
3. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
4. CONTRACTOR SHALL PROVIDE HIS OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
5. CONTRACTOR SHALL PROTECT HIS WORK, HIS EXISTING AND ADJACENT PROPERTY AGAINST WEATHER.
6. CONTRACTOR SHALL PROTECT HIS WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED, SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
7. ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKMEN.
9. NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.
10. THE CONTRACTOR SHALL COORDINATE AND OBTAIN A WRITTEN APPROVAL IDENTIFYING THE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.
11. DURING CONSTRUCTION THE CONTRACTOR MAY UNCOVER AN EXISTING CONDITION THAT WILL HAVE TO BE MODIFIED. ANY SUCH WORK WHICH COMES UNDER THE JURISDICTION OF THIS CONTRACTOR SHALL BE DONE BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER, AS THOUGH FULLY DETAILED ON PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
12. ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE OWNER'S REPRESENTATIVE FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BARE THE COST OF RECTIFYING WORK NOT APPROVED BY THE OWNER'S REPRESENTATIVE, CAUSED BY LACK OF COORDINATION AND OR NOTIFICATION.
13. INSTALL ALL EQUIPMENT IN FULL ACCORDANCE WITH LOCAL CODE REQUIREMENTS, OTHER SPECIFICATION SECTION REQUIREMENTS, AND MANUFACTURER RECOMMENDATIONS.

B. CODES, PERMITS, STANDARDS AND REGULATIONS

1. CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.). GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.
2. OBTAIN PERMITS AND PAY ALL FEES, ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.

C. DRAWINGS

1. THE SYSTEMS AS SHOWN ON MECHANICAL DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT.
2. THE EXACT LOCATIONS FOR FIXTURES, EQUIPMENT AND PIPING WHICH IS NOT COVERED BY DRAWINGS, SHALL BE OBTAINED FROM THE ENGINEER'S OR HIS REPRESENTATIVE IN THE FIELD AND THE WORK SHALL BE LAID OUT ACCORDINGLY.

D. BASE EQUIPMENT, MATERIALS AND SUBSTITUTIONS.

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS AND U.L. LABELED.
2. BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. STATED IN THIS SPECIFICATIONS, WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED, SHALL BE KNOWN AS A "STANDARD".
3. ALL PROPOSALS SHALL BE BASED ON "STANDARDS" SPECIFIED.
4. THE EQUIPMENT SCHEDULES ON THE DRAWINGS INDICATE MANUFACTURERS EQUIPMENT MODEL NUMBERS THAT THIS DESIGN HAS BEEN BASED ON. THE USE OF OTHER MANUFACTURES EQUIPMENT THAT IS LISTED AS ACCEPTABLE ALTERNATES AND REFLECTS ANY ADDITIONAL COST OF SUCH CHANGES SHALL BE PAID BY THE CONTRACTOR.
5. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
6. COORDINATE ALL APPROVED SUBSTITUTIONS. ANY COSTS RESULTING FROM SUBSTITUTION SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.

E. ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONFORM THESE REQUIREMENTS PRIOR TO STARTING WORK.

F. WARRANTY

1. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.
2. EXTEND ALL MANUFACTURERS' WARRANTIES TO OWNER.
3. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD. IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

G. SHOP DRAWING SUBMITTALS

1. SUBMIT SHOP DRAWINGS FOR MECHANICAL AND PLUMBING SYSTEMS, INCLUDING BUT NOT LIMITED TO SHEET METAL, PLUMBING FIXTURES AND EQUIPMENT WITH ADEQUATE DETAILS AND SCALES TO CLEARLY SHOW CONSTRUCTION. INDICATE THE OPERATING CHARACTERISTICS FOR EACH REQUIRED ITEM. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON THE CONSTRUCTION DOCUMENTS.
2. SHEET METAL DRAWINGS SHALL BE FULLY DIMENSIONED AND COORDINATED BASED ON FIELD VERIFIED BUILDING CLEARANCES AND SITE ENGINEER'S CEILING LAYOUTS. INDICATE STRUCTURAL, LIGHTING, DUCTWORK AND PIPING AT ALL CRITICAL LOCATIONS.
3. CONTRACTOR SHALL REVIEW AND INDICATE HIS APPROVAL OF EACH SHOP DRAWINGS PRIOR TO SUBMITTAL FOR REVIEW. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE ENGINEER UNLESS THE CONTRACTOR'S APPROVAL IS NOTED. DO NOT START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR.
4. SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.
5. WHERE SUBMITTALS VARY FROM THE CONTRACT REQUIREMENTS, THE CONTRACTOR SHALL CLEARLY INDICATE ON SUBMITTAL OR ACCOMPANYING DOCUMENTS THE NATURE AND REASON FOR THE VARIATIONS.
6. EACH MANUFACTURER OR HIS REPRESENTATIVE MUST CHECK THE APPLICATION OF HIS EQUIPMENT AND CERTIFY AT TIME OF SHOP DRAWING SUBMITTAL THAT THE EQUIPMENT SPECIFIED HAS BEEN PROPERLY APPLIED AND CAN BE INSTALLED, SERVICED AND MAINTAINED WHERE INDICATED ON THE DRAWINGS. ADVISE ENGINEER IN WRITING WITH SUBMITTAL DRAWINGS OF ANY POTENTIAL PROBLEMS. THE MANUFACTURER SHALL BE RESPONSIBLE FOR ANY CHANGES THAT MIGHT BE NECESSARY BECAUSE OF PHYSICAL CHARACTERISTICS OF EQUIPMENT THAT HAVE NOT BEEN CALLED TO THE ENGINEER'S ATTENTION AT THE TIME OF SUBMITTAL.

BASIC MATERIALS AND METHODS

A. GENERAL

1. THIS SECTION INCLUDES BASIC MECHANICAL MATERIALS AND METHODS TO COMPLEMENT OTHER SECTIONS IN THIS SPECIFICATION AND REQUIREMENTS INDICATED ON THE MECHANICAL DRAWINGS.

B. SUPPORTS AND HANGERS

1. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM BUILDING STRUCTURE. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF MSS SP-69 AND SP-89.

C. CUTTING, PATCHING AND DRILLING

1. PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED OR MODIFIED AS A RESULT OF THE INSTALLATION OF THE MECHANICAL SYSTEMS.
2. EXACT LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPLEMENTAL SUPPORT STEEL FOR EQUIPMENT AND ROOF PENETRATIONS AFTER APPROVAL OF STRUCTURAL ENGINEER.

HVAC SYSTEMS AND EQUIPMENT

A. GENERAL

1. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK. SUBMISSION OF A BID ON THIS PROJECT SHALL BE CONSTRUED AS HAVING SUCH KNOWLEDGE.
2. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.

AIR DISTRIBUTION SYSTEMS

A. GENERAL

1. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK. SUBMISSION OF A BID ON THIS PROJECT SHALL BE CONSTRUED AS HAVING SUCH KNOWLEDGE.
2. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.
3. DETERMINE EXACT LOCATIONS FOR ALL NEW DUCTWORK AND ACCESSORIES IN THE FIELD.
4. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES.
5. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE SITE ENGINEER'S BEFORE PROCEEDING.
6. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

B. DUCTWORK

1. FABRICATE AND ERECT ALL DUCTWORK TO SMACNA STANDARDS FOR GALVANIZED STEEL. COMPLY WITH NFPA 90A REQUIREMENTS.
2. DUCTWORK SHALL BE SMACNA LOW PRESSURE CONSTRUCTION 1" STATIC PRESSURE RATING WITH SEAL CLASS B SEAMS AND JOINTS.
3. INCLUDE ALL ACOUSTIC, AIRFOIL SHAPED PERFORATED ALUMINUM TURNING VANES, MANUAL DAMPERS, FLEXIBLE CONNECTORS, GRILLES AND DIFFUSERS, ACOUSTIC LINING, AND OTHER SHEET METAL ACCESSORIES FOR THE PROJECT.
4. ALL BRANCH CONNECTIONS SHALL BE AS PER THE DETAILS SHOWN ON THE DRAWINGS.
5. EXHAUST DUCT OUTLETS SHALL BE INSTALLED A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES.

C. HVAC INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER, OR CERTAINTEED)

1. INSULATE ALL NON-LINED SUPPLY, RETURN, AND EXHAUST DUCTS IN UNCONDITIONED SPACES WITH 1-1/2" THICK FOIL FACED REINFORCED KRAFT JACKET, FIBERGLASS DUCT WRAP FULLY SECURED TO DUCT. LAP AND TAPE SEAMS AND SECURE TIGHTLY TO THE DUCTS WITH WIRE OR STICK PINS.
   a. INSULATE ALL SUPPLY AND RETURN DUCTS LOCATED OUTSIDE OF BUILDING WITH 3" THICK FOIL FACED REINFORCED KRAFT JACKET,FIBERGLASS DUCT WRAP FULLY SECURED TO DUCT.
   b. INSTALL A PVC JACKET ON ALL INSULATED DUCTWORK LOCATED OUTSIDE OF BUILDING
2. ALL INSULATION TO BE APPLIED IN FULL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND UL 723.
3. INSULATE AIR CONDITIONING CONDENSATE DRAIN PIPING WITH 1" THICK MOLDED FIBER GLASS INSULATION.
4. INSULATE REFRIGERANT PIPING WITH 1" THICK ELASTOMERIC.
   a. COVER ALL EXPOSED REFRIGERANT PIPING ON EXTERIOR OF BUILDING WITH SLIMDUCT

D. DUCT ACCESSORIES

1. FLEXIBLE DUCTWORK (AS MANUFACTURED BY CLEVAFLEX, FLEXMASTER OR WIREMOLD).
2. DAMPERS (AS MANUFACTURED BY RUSKIN, NAILOR OR SAFE-AIR) FABRICATE IN ACCORDANCE WITH SMACNA STANDARDS. PROVIDE END BEARINGS AND LOCKING, INDICATING QUADRANT REGULATORS, BLADE TO BE SINGLE THICKNESS WITH CONTINUOUS HINGE OR ROD.
3. BACKDRAFT DAMPERS (AS MANUFACTURED BY RUSKIN, NAILOR OR SAFE-AIR)
   a. MULTIPLE BLADE, PARALLEL TYPE DAMPER CONSTRUCTED OF GALVANIZED STEEL WITH FELT OR FLEXIBLE VINYL SEALED EDGES, BALL BEARINGS, PIVOT PIN AND ADJUSTMENT DEVICE FOR VARYING PRESSURES.
4. FIRE DAMPERS (AS MANUFACTURED BY RUSKIN, NAILOR OR SAFE-AIR)
   a. FABRICATE IN ACCORDANCE WITH NFPA 90A AND UL555. DAMPERS SHALL BE SUITABLE FOR USE IN THE VERTICAL OR HORIZONTAL POSITION AS INDICATED ON THE DRAWINGS, BE TYPE 'B' WITH BLADES OUT OF AIRSTREAM, AND BE RATED FOR 1-1/2 HOURS MINIMUM (UNLESS NOTED OTHERWISE).
5. PROVIDE DUCT MOUNTED ACCESS DOORS AT ALL FIRE DAMPER LOCATIONS.
6. ACCESS DOORS (AS MANUFACTURED BY RUSKIN, NAILOR OR SAFE-AIR)
   a. FABRICATE IN ACCORDANCE WITH SMACNA STANDARDS. DOORS TO BE FABRICATED OF GALVANIZED STEEL WITH SEALING GASKET AND QUICK LOCKING DEVICE.
   b. FOR INSULATED DUCTWORK, DOORS SHALL HAVE MINIMUM ONE (1) INCH INSULATION WITH SHEET METAL COVER.

HVAC INSTRUMENTS AND CONTROLS

A. GENERAL

1. AFTER INSTALLATION, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. WORK THAT IS SCHEDULED TO BE CONCEALED OR INSULATED SHALL REMAIN UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED. IF THE CONSTRUCTION SCHEDULE REQUIRES, ARRANGE FOR TESTS ON SECTIONS OF THE SYSTEM AT A TIME.
3. BALANCE ALL SYSTEMS, CALIBRATE CONTROLS, CHECK FOR PROPER OPERATION AND SEQUENCE UNDER ALL CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS.
4. SUBMIT AIR AND WATER BALANCE REPORT FROM INDEPENDENT AABC OR NEBB CERTIFIED SUBCONTRACTOR FOR ALL AIR AND WATER SYSTEMS PER AABC OR NEBB STANDARDS.

TESTING, ADJUSTING, AND BALANCING

A. BALANCING, START UP AND INSTRUCTIONS

1. AFTER EQUIPMENT IS PLACED IN OPERATION, SYSTEMS SHALL BE BALANCED TO WITHIN 10% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING SHALL BE PERFORMED BY AN INDEPENDENT AABC OR NEBB CERTIFIED CONTRACTOR.
2. BALANCE THE AIR SYSTEMS PRIOR TO BALANCING HYDRONIC AND REFRIGERANT SYSTEMS.
3. TEST, ADJUST AND BALANCE COOLING SYSTEMS DURING SUMMER SEASON AND HEATING SYSTEMS DURING WINTER SEASON. BALANCE SYSTEMS WHEN THE OUTSIDE AIR CONDITIONS ARE WITHIN 5 DEGREES F WET BULB TEMPERATURE OF THE MAXIMUM SUMMER DESIGN CONDITION AND WITHIN 10 DEGREES F DRY BULB TEMPERATURE OF THE MINIMUM WINTER DESIGN CONDITION.
4. START UP AND PLACE ALL SYSTEMS IN OPERATION AND TAG ALL SWITCHES AND CONTROLS WITH PERMANENT LABELS INSTRUCT OWNER ON PROPER OPERATION AND PREVENTATIVE MAINTENANCE OF SYSTEM.
5. G.C. TO REPLACE ALL RTU FILTERS FOLLOWING CONSTRUCTION, BALANCING, AND INITIAL START-UP.

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET

09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

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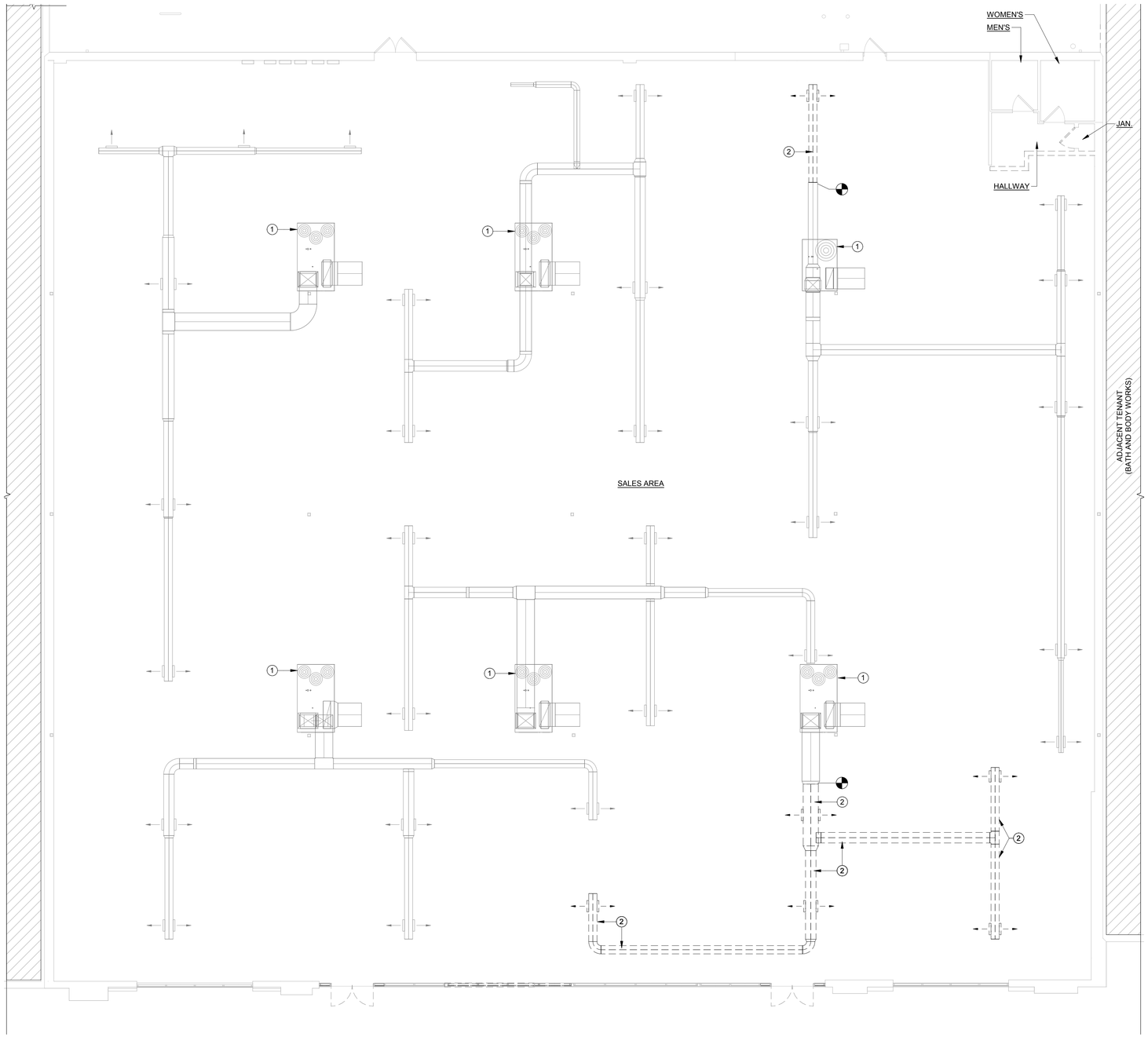
PROJECT NO. 8099-196

DRAWN BY TCR

APP'D BY MPN

SHEET TITLE
MECHANICAL SPECIFICATIONS

SHEET NO.
M0.1



1 MD1.0 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES (#)

1	EXISTING TENANT ROOFTOP UNIT TO REMAIN AS IS.
2	G.C. TO DEMO EXISTING DUCTWORK, DIFFUSERS, AND ALL ACCESSORIES IN AREAS INDICATED ON PLAN IN PREPARATION FOR INSTALLATION OF NEW DUCTWORK. REF: M1.0. FOR LOCATION AND LAYOUT OF NEW DUCTWORK.

MECHANICAL DEMOLITION NOTES

A. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY REMOVAL OR INSTALLATION.
B. ALL EXISTING CONDENSATION LINES TO REMAIN UNLESS NOTED OTHERWISE.
C. EXISTING GAS SERVICE GAS LINES ON INTERIOR OF BUILDING TO REMAIN.

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SHEET TITLE
MECHANICAL DEMOLITION PLAN

SHEET NO.
MD1.0

KEYED NOTES [#]

1	PROVIDE REMOTE TEMPERATURE SENSOR FOR RTU UNIT NOTED (+60"AFF). CONNECT TO THERMOSTAT IN MANAGER'S OFFICE.
2	INSTALL THERMOSTATS AS SPECIFIED IN MANAGERS OFFICE (+48"AFF). PROVIDE PERMANENT PLASTIC LABELS NOTING AHU UNIT SERVED. THERMOSTATS TO BE LABELED DESIGNATING AREA OF COVERAGE. THERMOSTATS TO BE PROGRAMMED FOR "OCCUPIED HOURS": MONDAY-SATURDAY - 8AM-10PM, SUNDAY - 9AM-6PM.
3	INSTALL DUCT SMOKE DETECTOR IN SUPPLY/RETURN OR AS REQUIRED BY LOCAL CODE/JURISDICTION. PROVIDE ACCESS PANEL. DETECTOR TO SHUT DOWN RTU UPON ACTIVATION. CONNECT TO EXISTING ALARM SYSTEM OR PROVIDE AND CONNECT TO AUDIO/VISUAL DEVICE LOCATED IN CONSTANTLY ATTENDED AREA PER CODE.
4	EXISTING DUCT MOUNTED SUPPLY/RETURN DIFFUSER TO REMAIN. CLEAN, PATCH, REPAIR AS REQ'D TO RETURN TO LIKE-NEW CONDITION. G.C. TO REBALANCE AS INDICATED.
5	DIGITAL WALL ADJUSTER FOR THERMAFUSER MOUNTED AT 48" A.F.F..
6	G.C. TO DEMO EXISTING DUCTWORK BEYOND POINT INDICATED IN PREPARATION OF NEW DUCTWORK AND DIFFUSERS LOCATED IN OFFICE, BREAK ROOM, DRESSING ROOMS, AND HALLWAY. INSTALL NEW DUCTWORK AND DIFFUSERS AS INDICATED ON PLAN/SCHEDULE.
7	EXHAUST DUCT UP THRU ROOF AND USE EXISTING ROOF OPENING. PROVIDE WITH ROOF CAP WITH BIRDSCREEN AND WEATHER TIGHT PENETRATION. ENSURE EXHAUST OUTLET IS MIN. 10'-0" FROM ANY FRESH AIR INTAKE, OPERABLE WINDOW, OR EDGE OF ROOF.
8	EXISTING UNIT HEATER TO REMAIN.
9	EXHAUST FANS SHALL OPERATE VIA A SEPARATE OCCUPANCY SENSOR FROM THE RESTROOM LIGHTS. EXHAUST FAN TO BE MOUNTED AS CLOSE TO RESTROOM AS POSSIBLE.
10	G.C. TO DEMO EXISTING DUCTWORK BRANCH BEYOND POINT INDICATED.
11	NEW DUCTWORK/DIFFUSER.
12	BOTTOM OF SUPPLY/RETURN GRILLE TO BE AS HIGH AS POSSIBLE TO BOTTOM. COORDINATE EXACT HEIGHT IN FIELD TO MATCH DUCTWORK HEIGHT. REF: KEY HEIGHTS DIAGRAM
13	NO DUCTWORK TO BE INSTALLED ABOVE CHECKOUT. HATCHED AREA INDICATES AREA ABOVE CHECKOUT TO KEEP CLEAR.
14	CONTRACTOR SHALL SERVICE EXISTING AIR CONDITIONING SYSTEM COMPLETELY INCLUDING, BUT NOT LIMITED TO- CLEANING INTERIOR AND EXTERIOR OF ALL COMPONENTS, TOUCH UP PAINTING, REPLACING AIR FILTERS, INSPECTING AND REPLACING FAN BELTS (IF REQUIRED), CHECKING EVAPORATOR. AND CONDENSER COILS, CHECKING AND TRIMMING REFRIGERANT CHARGE, CHECKING COMPRESSOR AMP DRAW, INSPECTING HEAT EXCHANGER, INSPECTING AND VERIFYING OPERATION OF GAS TRAIN, CHECKING DAMPER OPERATION AND DAMPER MOTORS, CLEANING CONDENSATE TRAP, ETC., TO INSURE PROPER OPERATION. SHOULD ANY REPAIRS BE REQUIRED, CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE AND SUBMIT A WRITTEN COST PROPOSAL INCLUDING COMPLETE COST TO PLACE UNIT IN "LIKE-NEW" CONDITION AND TIME ESTIMATE TO COMPLETE REPAIRS.

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY REMOVAL OR INSTALLATION.
2. ALL DUCTWORK TO BE PAINTED WHITE.
3. COORDINATE DUCTWORK WITH CONDITIONS IN FIELD.
4. LENNOX NATIONAL ACCOUNTS TO PROVIDE EQUIPMENT OPERATION CHECK (ECC).
5. CONDENSATE TRAP PER MANUFACTURER SPECIFICATIONS. CONNECT TO EXISTING CONDENSATE PIPING SYSTEM. MODIFY/REPLACE ANY EXISTING CONDENSATE DRAIN PIPING OR PROVIDE NEW LINES AS REQUIRED TO EXISTING/NEW APPROVED TERMINATION OUTLET. VERIFY WITH LOCAL CODE.

LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	SIDEWALL SUPPLY DIFFUSER
	RETURN AIR GRILLE
	SIDEWALL RETURN GRILLE
	CONCENTRIC DIFFUSER
	EXHAUST AIR GRILLE
	DUCTWORK REDUCER
	THERMOSTAT
	REMOTE TEMPERATURE SENSOR
	BALANCING DAMPER

BTM. OF DECK - ±18'-2 3/4"

BTM. OF BEAM - ±17'-2 1/4"

BTM. OF DUCT - ±13'-0"

BTM. OF CASHWRAP LIGHTING -16'-0"

BTM. OF SALES LIGHTING - 12'-6"

BTM. OF STOCKROOM LIGHTING - 12'-6"

PERIMETER SHELVING - 12'-0"

INTERIOR SHELVING 10'-6"

NOTE:
CONTRACTOR TO VERIFY EXISTING CONDITIONS & MOUNT SPRINKLERS, CONDUIT, AND DUCTWORK AS HIGH AS POSSIBLE WITHIN THE EXISTING CEILING SPACE. NOTIFY ARCHITECT/ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO FABRICATION/INSTALLATION.

FINISH FLOOR

AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER	MODEL #	DESCRIPTION	SIZE	BORDER	COLOR
S-1	TITUS	300RL	SIDEWALL SUPPLY	AS NOTED ON DWG	WALL-MOUNT	WHITE
S-2	TITUS	TMS	SUPPLY AIR DIFFUSER	24x24	LAY-IN	WHITE
S-3	ACUTHERM	TF-HC-8	THERMAFUSER	24x24	LAY-IN	WHITE
R-1	TITUS	355FL	SIDEWALL RETURN	AS NOTED ON DWG	WALL-MOUNT	WHITE
R-2	TITUS	PAR	RETURN AIR GRILLE	24x24	LAY-IN	WHITE
E-1	TITUS	PAR	EXHAUST GRILLE	24x24	LAY-IN	WHITE

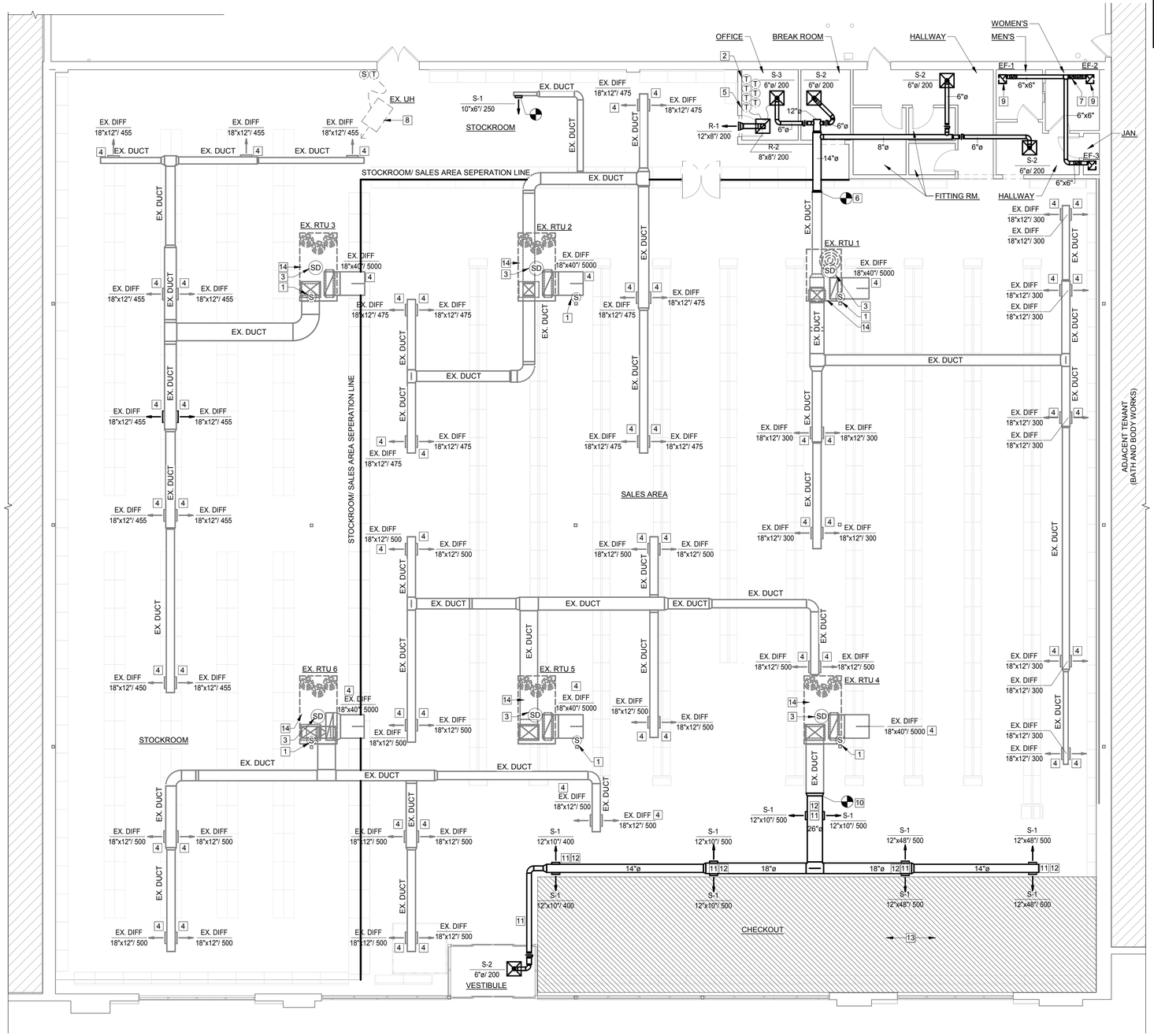
EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	FAN			ELECTRICAL		WEIGHT	NOTES/ ACCESSORIES
			CFM (TOTAL)	T.S.P ("WC)	FAN WATTS	VOLTAGE	AMPS		
EF-1	LOREN COOK	GC-146	75 CFM	.25	35	115/1Ø	.313	-	1,2
EF-2	LOREN COOK	GC-146	75 CFM	.25	35	115/1Ø	.313	-	1,2
EF-3	LOREN COOK	GC-146	75 CFM	.25	35	115/1Ø	.313	-	1,3

NOTES:
1. PROVIDE CEILING MOUNTED EXHAUST FAN WITH TOGGLE DISCONNECT SWITCH, WHITE ALUMINUM GRILLE, DAMPER, AND ROOF CAP WITH BIRDSCREEN. REUSE EXISTING ROOF OPENING.
2. FAN SHALL BE CONTROLLED BY LIGHTING OCCUPANCY SENSOR FOR EACH RESTROOM.
3. FAN SHALL BE RUN CONTINUOUSLY.

UNIT HEATER SCHEDULE (GAS)

MARK	MANUFACTURER	MODEL #	HEATING (NATURAL GAS)			ELECTRICAL			WEIGHT	NOTES/ ACCESSORIES
			INPUT	OUTPUT	EFFICIENCY	VOLTAGE	MCA	MOCP		
EX. UH	REZNOR	EXISTING	EXISTING	EXISTING	EXISTING	120/208V	EXISTING	EXISTING	EXISTING	EXISTING TO REMAIN



1 MECHANICAL PLAN
M1.0 SCALE: 1/8" = 1'-0"

EXISTING RTU WORK:

EXISTING RTU'S TO REMAIN. G.C. TO PERFORM EVALUATION, VERIFY AMPERAGE AND PRESSURE-WASH COILS (NON-CHEMICAL). IN THE EVENT THAT REPAIR SERVICE IS NEEDED, G.C. SHALL PROVIDE "UNIT PRICING" ON THE FOLLOWING ITEMS INCLUDING BUT NOT LIMITED TO:

*REPAIR/REPLACE HEAT EXCHANGERS (TYPICAL LIFESPAN 10-15 YEARS)
*REPAIR/REPLACE COMPRESSORS
*REPLACE BELTS (NORMAL MAINTENANCE ANNUALLY)
*REPLACE FILTERS (NORMAL MAINTENANCE EVERY 3-6 MONTHS)
*REPAIR/REPLACE FAN MOTOR
*REPAIR/REPLACE BLADES
*CLEAN/REPLACE CONDENSER COILS
*REPAIR/REPLACE DRAIN PANS (CHECK FOR RUST, DAMAGE, ETC.)

PER 2016 NONRESIDENTIAL COMPLIANCE MANUAL MECHANICAL SYSTEMS SECTION 4.9.1 EXISTING SYSTEMS OR EQUIPMENT ARE NOT REQUIRED TO MEET THE ENERGY STANDARDS.

EXISTING ROOFTOP HVAC SCHEDULE

MARK	MANUFACTURER	MODEL #	NOMINAL TONS	FAN				COOLING			HEATING (NATURAL GAS)			ELECTRICAL			WEIGHT	NOTES/ ACCESSORIES
				CFM (TOTAL)	CFM (O/A)	T.S.P ("WC)	FAN HP	TOTAL (MBH)	SENSIBLE (MBH)	EFFICIENCY	INPUT	OUTPUT	STAGES	VOLTAGE	MCA	MOCP		
EX. RTU 1	CARRIER	48TCDD1	12.5	5000 CFM	927 CFM	-	2	150	-	10.8 EER	-	-	2	208/120	67	80	EX.	1,2,3
EX. RTU 2	CARRIER	48HJD014	12.5	5000 CFM	938 CFM	-	2	150	-	10.8 EER	-	-	2	208/120	60.6	70	EX.	1,2,3
EX. RTU 3	CARRIER	48HJD014	12.5	5000 CFM	589 CFM	-	2	150	-	10.8 EER	-	-	2	208/120	60.6	70	EX.	1,2,3
EX. RTU 4	CARRIER	48HJD014	12.5	5000 CFM	938 CFM	-	2	150	-	10.8 EER	-	-	2	208/120	60.6	70	EX.	1,2,3
EX. RTU 5	CARRIER	48HJD014	12.5	5000 CFM	940 CFM	-	2	150	-	10.8 EER	-	-	2	208/120	60.6	70	EX.	1,2,3
EX. RTU 6	CARRIER	48HJD014	12.5	5000 CFM	587 CFM	-	2	150	-	10.8 EER	-	-	2	208/120	60.6	70	EX.	1,2,3

NOTES:
1. PROVIDE EXISTING ROOFTOP UNIT WITH FACTORY SMOKE DETECTORS(AS REQUIRED BY CODE), DUAL ENTHALPY ECONOMIZER AND POWER EXHAUST.
2. PROVIDE WITH PROGRAMMABLE THERMOSTAT (HONEYWELL TH8320R1003 VISIONPRO 8000 W/ REMOTE TEMP. SENSOR C7189U1005/U)
   COOLING SETPOINTS - OCCUPIED 74°F, UNOCCUPIED 82°F. OCCUPIED HOURS: MONDAY-SATURDAY 8:00AM-10:00PM, SUNDAY 9:00AM-6:00PM
   HEATING SETPOINTS - OCCUPIED 68°F, UNOCCUPIED 60°F. OCCUPIED HOURS: MONDAY-SATURDAY 8:00AM-10:00PM, SUNDAY 9:00AM-6:00PM
3. THERMOSTATS ARE TO BE LABELED DESIGNATING AREA OF COVERAGE

PLAN NORTH

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

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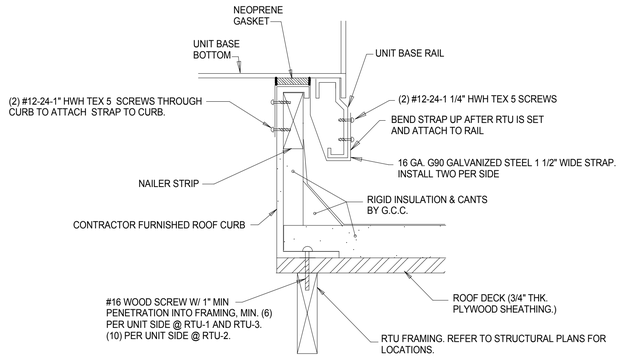
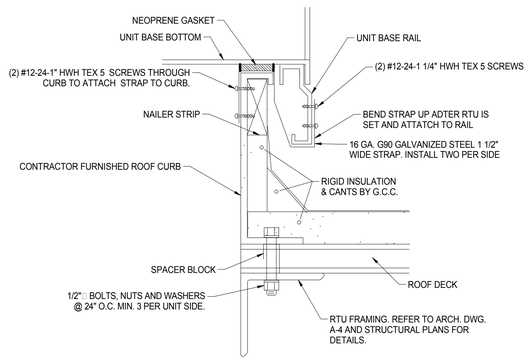
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'VD BY MPN
SHEET TITLE MECHANICAL PLAN
SHEET NO. M1.0



NOTE: ROOF CURB ATTACHMENT TO STRUCTURE VARIES BY TYPE OF STRUCTURE AND BY REQUIREMENTS OF LOCAL CODE AUTHORITIES. CONTRACTOR SHALL VERIFY LOCAL REQUIREMENTS.

ROOFTOP UNIT SEISMIC CURB ATTACHMENT (FOR WOOD STRUCTURE)

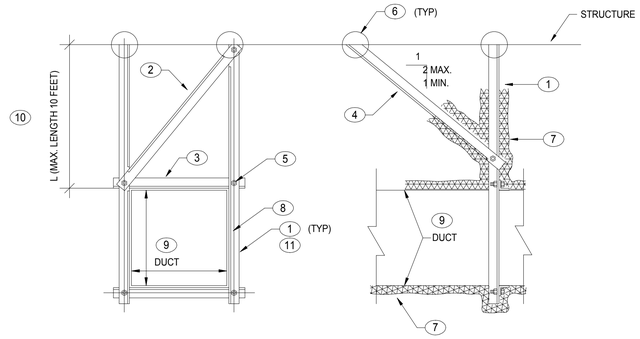
NOT TO SCALE



NOTE: ROOF CURB ATTACHMENT TO STRUCTURE VARIES BY TYPE OF STRUCTURE AND BY REQUIREMENTS OF LOCAL CODE AUTHORITIES. CONTRACTOR SHALL VERIFY LOCAL REQUIREMENTS.

ROOFTOP UNIT SEISMIC CURB ATTACHMENT (FOR STEEL STRUCTURE)

NOT TO SCALE



TRANSVERSE LONGITUDINAL

NOTE:
PROVIDE TRANSVERSE BRACING AT EVERY 40 FEET AND LONGITUDINAL BRACING AT EVERY 80 FEET OF DUCT RUN. PROVIDE BRACING FOR RECTANGULAR DUCT AS SCHEDULED BELOW. THE DUCTS MAXIMUM DIMENSIONS SHALL GOVERN WHAT BRACING IS REQUIRED. FOR EXAMPLE A 48"x30" DUCT SHALL BE BRACED AS A 54"x54" DUCT.
BRACE FLAT OVAL DUCTS THE SAME AS RECTANGULAR DUCTS.

IF "L" IS LESS THAN OR EQUAL TO 6 FEET

DUCT SIZE W x D (in)	VERTICAL HANGERS (in)	DIAGONAL BRACES (in)	HORIZONTAL BRACES (in)	BOLT SIZE (in)	CONNECTION TYPE TO STRUCTURE (in)	MAXIMUM MASS PER FOOT (in)
30X30	4X4X14ga	2-1/2X2-1/2X12ga	2X2X16ga	3/8	B	17
42X42	4X4X12ga	2-1/2X2-1/2X12ga	2-1/2X2-1/2X16ga	3/8	C	29
54X54	3X3X1/4	2-1/2X2-1/2X12ga	2-1/2X2-1/2X16ga	3/8	D	46
60X60	3X3X1/4	3X3X12ga	3X3X16ga	1/2	D	54
84X84	5X3X1/4	3X3X12ga	4X4X14ga	5/8	F	103
96X96	5X3X3/8	4X4X12ga	4X4X12ga	5/8	F	129
54X28	4X4X12ga	2-1/2X2-1/2X12ga	2-1/2X2-1/2X16ga	1/2	E	34
60X30	4X4X12ga	3X3X12ga	3X3X16ga	1/2	E	39
84X42	3X3X1/4	3X3X1/4	4X4X14ga	5/8	G	74
96X48	4X4X1/4	2" PIPE	4X4X12ga	3/4	H	97
108X54	4X4X1/4	2-1/2" PIPE	3X3X1/4	3/4	H	110
120X60	5X3X1/4	2-1/2" PIPE	3X3X1/4	7/8	H	121

IF "L" IS GREATER THAN 6 FEET BUT LESS THAN OR EQUAL TO 10 FEET (NOTE MAXIMUM LENGTH OF "L" IS 10 FEET)

DUCT SIZE W x D (in)	VERTICAL HANGERS (in)	DIAGONAL BRACES (in)	HORIZONTAL BRACES (in)	LONGITUDINAL BRACES (in)	BOLT SIZE (in)	CONNECTION TYPE TO STRUCTURE	MAXIMUM MASS PER FOOT (lb/ft)
30x30	4x4x12ga	4x4x14ga	2x2x16ga	2 1/2" PIPE	3/8	C	17
42x42	4x4x12ga	4x4x14ga	2-1/2x2-1/2x16ga	2 1/2" PIPE	3/8	C	29
54x54	3x3x1/4	14x4x12ga	2-1/2x2-1/2x16ga	2 1/2" PIPE	1/2	C	46
60x60	3x3x1/4	4x4x12ga	3x3x16ga	2 1/2" PIPE	1/2	D	54
84x84	5x3x1/4	4x4x12ga	4x4x14ga	2 1/2" PIPE	5/8	E	103
96x96	5x3x3/8	4x4x12ga	4x4x12ga	2 1/2" PIPE	5/8	F	129
54x28	4x4x12ga	4x4x12ga	2-1/2x2-1/2x16ga	2 1/2" PIPE	1/2	F	34
60x30	4x4x12ga	4x4x12ga	3x3x16ga	2 1/2" PIPE	1/2	E	39
84x42	3x3x1/4	2" PIPE	4x4x14ga	2 1/2" PIPE	5/8	E	74
96x48	4x4x1/4	2 1/2" PIPE	4x4x12ga	2 1/2" PIPE	3/4	F	97
108x54	4x4x1/4	2 1/2" PIPE	3x3x1/4	2 1/2" PIPE	3/4	G	110
120x60	5x3x1/4	2 1/2" PIPE	3x3x1/4	2 1/2" PIPE	7/8	H	121

SEISMIC RECTANGULAR AND FLAT OVAL DUCT

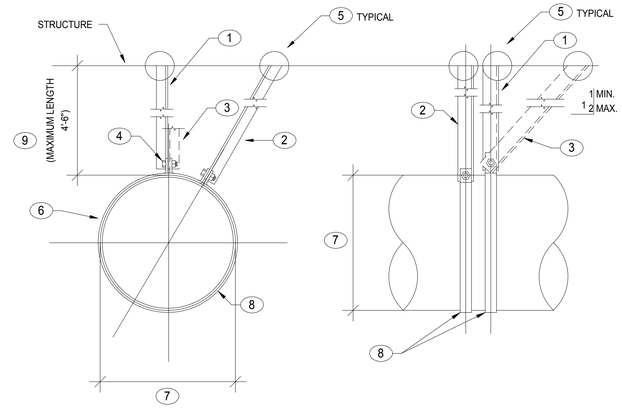
NOTES:

GENERAL NOTES:

1. MULTIPLE STRAND STEEL CABLE IS ACCEPTABLE FOR LONGITUDINAL AND TRANSVERSE BALANCING IN LIEU OF ANGLES INDICATED - SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT GUIDE.

KEY NOTES:

1. VERTICAL HANGER (TYPICAL).
2. DIAGONAL BRACE (TYPICAL).
3. HORIZONTAL BRACE (TYPICAL).
4. LONGITUDINAL BRACE (TYPICAL), PROVIDE AT INTERVALS DESIGNATED ON DETAIL.
5. BOLT (TYPICAL), SEE SCHEDULE FOR BOLT SIZE ON DETAIL.
6. REFER TO SEISMIC CONNECTIONS TO STRUCTURE SCHEDULE FOR TYPICAL CONNECTIONS.
7. INSULATION WHERE REQUIRED.
8. SELF-TAPPING SHEET METAL SCREWS EQUALLY SPACED (10" ON CENTER MAXIMUM), MINIMUM OF TWO PER SIDE.
9. RESTRAINTS NOT REQUIRED FOR RECTANGULAR DUCTS OF LESS THAN A 1.5 SQUARE FOOT AREA.
10. SEISMIC RESTRAINTS NOT REQUIRED IF DUCT IS SUSPENDED BY HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE DUCT TO BOTTOM OF STRUCTURE.
11. FOR INSULATED DUCTWORK - APPLY INSULATION TO EXTERIOR OF DUCT FRAMING ANGLES.



TRANSVERSE LONGITUDINAL

NOTE:

PROVIDE TRANSVERSE BRACING AT EVERY 40 FEET AND LONGITUDINAL BRACING AT EVERY 80 FEET OF DUCT RUN. PROVIDE BRACING FOR ROUND DUCT AS SCHEDULED BELOW:

L MAXIMUM LENGTH ALLOWED IS 4.5 FEET

DUCT SIZE W x D (in)	VERTICAL HANGERS (in)	DIAGONAL BRACES (in)	BOLT SIZE (in)	CONNECTION TYPE TO STRUCTURE	MASS PER FOOT (lb/ft)	REMARKS
OVER 33	2x2x16ga	2x2x16ga	3/8	A	14	SINGLE HANGER
36	2x2x16ga	2x2x16ga	3/8	A	16	SINGLE HANGER
48	2x2x16ga	2x2x16ga	3/8	B	21	DOUBLE HANGER
60	3x3x16ga	4x4x14ga	3/8	D	34	DOUBLE HANGER
84	3x3x16ga	4x4x14ga	1/2	F	69	DOUBLE HANGER

SEISMIC ROUND DUCT

NOTES:

GENERAL NOTES:

1. MULTIPLE STRAND STEEL CABLE IS ACCEPTABLE FOR LONGITUDINAL AND TRANSVERSE BALANCING IN LIEU OF ANGLES INDICATED - SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT GUIDE.

KEY NOTES:

1. VERTICAL HANGER (TYPICAL).
2. DIAGONAL BRACE (TYPICAL).
3. LONGITUDINAL BRACE (TYPICAL), PROVIDE AT INTERVALS DESIGNATED ON DETAIL.
4. BOLT (TYPICAL), SEE SCHEDULE FOR BOLT SIZE ON DETAIL.
5. REFER TO SEISMIC CONNECTIONS TO STRUCTURE SCHEDULE FOR TYPICAL CONNECTIONS.
6. INSULATION WHERE REQUIRED.
7. RESTRAINTS NOT REQUIRED FOR ROUND DUCTS LESS THAN 30" DIAMETER.
8. METAL STRAP, MINIMUM SIZE 2-1/2" x 1/8"
9. SEISMIC RESTRAINTS NOT REQUIRED IF DUCT IS SUSPENDED BY HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE DUCT TO BOTTOM OF STRUCTURE.

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25 Green Pond Road
Rockaway, NJ 07866

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PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'D BY MPN

SHEET TITLE
MECH. SEISMIC DTLS.

SHEET NO.
M1.1

GENERAL REQUIREMENTS

A. GENERAL

1. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY SITE ENGINEER'S AND/OR OWNER.
2. VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN BID.
3. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
4. CONTRACTOR SHALL PROVIDE HIS OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
5. CONTRACTOR SHALL PROTECT HIS WORK, HIS EXISTING AND ADJACENT PROPERTY AGAINST WEATHER.
6. CONTRACTOR SHALL PROTECT HIS WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED, SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
7. ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKMEN.
9. NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.
10. THE CONTRACTOR SHALL COORDINATE AND OBTAIN A WRITTEN APPROVAL IDENTIFYING THE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.
11. DURING CONSTRUCTION THE CONTRACTOR MAY UNCOVER AN EXISTING CONDITION THAT WILL HAVE TO BE MODIFIED. ANY SUCH WORK WHICH COMES UNDER THE JURISDICTION OF THIS CONTRACTOR SHALL BE DONE BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER, AS THOUGH FULLY DETAILED ON PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
12. ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE OWNER'S REPRESENTATIVE FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BEAR THE COST OF RECTIFYING WORK NOT APPROVED BY THE OWNER'S REPRESENTATIVE, CAUSED BY LACK OF COORDINATION AND OR NOTIFICATION.
13. INSTALL ALL EQUIPMENT IN FULL ACCORDANCE WITH LOCAL CODE REQUIREMENTS, OTHER SPECIFICATION SECTION REQUIREMENTS, AND MANUFACTURER RECOMMENDATIONS.

B. CODES, PERMITS, STANDARDS AND REGULATIONS

1. CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.). GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.
2. OBTAIN PERMITS AND PAY ALL FEES, ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.

C. DRAWINGS

1. THE SYSTEMS AS SHOWN ON PLUMBING DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT.
2. THE EXACT LOCATIONS FOR FIXTURES, EQUIPMENT AND PIPING WHICH IS NOT COVERED BY DRAWINGS, SHALL BE OBTAINED FROM THE SITE ENGINEER'S OR HIS REPRESENTATIVE IN THE FIELD AND THE WORK SHALL BE LAID OUT ACCORDINGLY.

D. BASE EQUIPMENT, MATERIALS AND SUBSTITUTIONS.

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS AND U.L. LABELED.
2. BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. STATED IN THIS SPECIFICATIONS, WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED, SHALL BE KNOWN AS A "STANDARD".
3. ALL PROPOSALS SHALL BE BASED ON "STANDARDS" SPECIFIED.
4. THE EQUIPMENT SCHEDULES ON THE DRAWINGS INDICATE MANUFACTURERS EQUIPMENT MODEL NUMBERS THAT THIS DESIGN HAS BEEN BASED ON. THE USE OF OTHER MANUFACTURES EQUIPMENT THAT IS LISTED AS ACCEPTABLE ALTERNATES AND REFLECTS ANY ADDITIONAL COST OF SUCH CHANGES SHALL BE PAID BY THE CONTRACTOR.
5. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
6. COORDINATE ALL APPROVED SUBSTITUTIONS. ANY COSTS RESULTING FROM SUBSTITUTION SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.

E. ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONFORM THESE REQUIREMENTS PRIOR TO STARTING WORK.

F. WARRANTY

1. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.
2. EXTEND ALL MANUFACTURERS' WARRANTIES TO OWNER.
3. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD. IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

G. SHOP DRAWING SUBMITTALS

1. SUBMIT SHOP DRAWINGS FOR PLUMBING SYSTEMS, INCLUDING BUT NOT LIMITED TO FIXTURES AND EQUIPMENT WITH ADEQUATE DETAILS AND SCALES TO CLEARLY SHOW CONSTRUCTION. INDICATE THE OPERATING CHARACTERISTICS FOR EACH REQUIRED ITEM. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON THE CONSTRUCTION DOCUMENTS.
2. CONTRACTOR SHALL REVIEW AND INDICATE HIS APPROVAL OF EACH SHOP DRAWINGS PRIOR TO SUBMITTAL FOR REVIEW. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE ENGINEER UNLESS THE CONTRACTOR'S APPROVAL IS NOTED. DO NOT START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR.
3. SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.
4. WHERE SUBMITTALS VARY FROM THE CONTRACT REQUIREMENTS, THE CONTRACTOR SHALL CLEARLY INDICATE ON SUBMITTAL OR ACCOMPANYING DOCUMENTS THE NATURE AND REASON FOR THE VARIATIONS.
5. EACH MANUFACTURER OR HIS REPRESENTATIVE MUST CHECK THE APPLICATION OF HIS EQUIPMENT AND CERTIFY AT TIME OF SHOP DRAWING SUBMITTAL THAT THE EQUIPMENT SPECIFIED HAS BEEN PROPERLY APPLIED AND CAN BE INSTALLED, SERVICED AND MAINTAINED WHERE INDICATED ON THE DRAWINGS. ADVISE ENGINEER IN WRITING WITH SUBMITTAL DRAWINGS OF ANY POTENTIAL PROBLEMS. THE MANUFACTURER SHALL BE RESPONSIBLE FOR ANY CHANGES THAT MIGHT BE NECESSARY BECAUSE OF PHYSICAL CHARACTERISTICS OF EQUIPMENT THAT HAVE NOT BEEN CALLED TO THE ENGINEER'S ATTENTION AT THE TIME OF SUBMITTAL.

BASIC MATERIALS AND METHODS

A. GENERAL

1. THIS SECTION INCLUDES BASIC PLUMBING MATERIALS AND METHODS TO COMPLEMENT OTHER SECTIONS IN THIS SPECIFICATION AND REQUIREMENTS INDICATED ON THE MECHANICAL DRAWINGS.

B. SUPPORTS AND HANGERS

1. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM BUILDING STRUCTURE. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF MSS SP-69 AND SP-89.

C. ESCUTCHEONS

1. FIT ALL PIPE PASSING THROUGH WALLS, FLOORS OR CEILINGS IN FINISHED ROOMS WITH STEEL OR BRASS ESCUTCHEONS. WHERE SURFACE IS TO RECEIVE A PAINT FINISH, MAKE ESCUTCHEONS PRIME PAINTED; OTHERWISE MAKE ESCUTCHEONS NICKEL OR CHROME PLATED. WHERE PIPING IS INSULATED, FIT ESCUTCHEONS OUTSIDE INSULATION.

D. IDENTIFYING DEVICES AND LABELS

1. PROVIDE METAL EQUIPMENT NAMEPLATES PERMANENTLY FASTENED TO EQUIPMENT WITH PERATIONAL DATA ENGRAVED OR STAMPED.
2. IDENTIFY ALL PIPES AND VALVES UNEXPOSED AREAS, AND ACCESSIBLE CEILINGS AND SHAFTS.
3. COLOR CODE IDENTIFICATION BANDS OR MARKER BACKGROUNDS TO IDENTIFY CONTENTS OF PIPE AND DIRECTION OF FLOW LOCATED NEAR EACH VALVE AND FITTING, ON BOTH SIDES OF PIPE PASSING THROUGH WALLS AND ON LONG RUNS AT NOT OVER 20 FOOT INTERVALS.

E. CUTTING, PATCHING AND DRILLING

1. PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED OR MODIFIED AS A RESULT OF THE INSTALLATION OF THE MECHANICAL SYSTEMS.
2. EXACT LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPLEMENTAL SUPPORT STEEL FOR EQUIPMENT AND ROOF PENETRATIONS AFTER APPROVAL OF STRUCTURAL ENGINEER.

INSULATION

A. PLUMBING INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER OR CERTAINTEED)

1. INSULATE ALL ABOVE GRADE HOT AND COLD WATER PIPING WITH MOLDED FIBER GLASS HAVING AN ALL SERVICE JACKET.

B. INSULATION THICKNESS SCHEDULE: 1) LESS THAN 2" DIAMETER PIPE: 1" THICK-HW AND ½" THICK-CW; 2) 2"-8" DIAMETER PIPE: 1-1/2" THICK.

1. INSULATE ALL ABOVE-GRADE, HORIZONTAL RAIN CONDUCTORS AND ROOF DRAIN SUMPS WITH ONE (1) INCH THICK MOLDED FIBER GLASS HAVING TYPE ASJ JACKET AND MANUFACTURED BY OWENS-CORNING FIBERGLASS COMPANY.
2. INCLUDE INSULATION OF FITTINGS AND VALVES. KEEP VAPOR BARRIERS INTACT. APPLY TO MANUFACTURER'S RECOMMENDATIONS.

PIPING AND VALVES

A. GENERAL

1. LABEL ALL PIPING AND SHOW DIRECTION OF FLOW EVERY 20 FEET ON CENTER.

B. CONNECTIONS TO EQUIPMENT

1. PROVIDE VALVED WATER CONNECTION FOR EQUIPMENT.
2. INCLUDE ACCESSORIES REQUIRED BY CODE, DRAWING OR MANUFACTURER'S INSTRUCTIONS.

C. SANITARY AND STORM SEWERS

1. PVC PIPING SHALL NOT BE INSTALLED UNLESS PERMITTED BY CODE.
2. SANITARY/STORM SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS:
3. AS PART OF THE FINAL INSPECTION PROCESS, THE GENERAL CONTRACTOR SHALL SCHEDULE AND PAY FOR A COMPLETE SEWER LINE VIDEO INSPECTION. PROVIDE A DVD COPY OF THE ENTIRE VIDEO INSPECTION TO THE OWNER.

D. ABOVE GRADE SANITARY/STORM SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS: (EXISTING TIE-IN FOR ROOF DRAIN IS SCH 40 PVC)

1. NO-HUB CAST IRON PIPE CISPI 1-301-78.
2. PVC-DWV PLASTIC ASTM D1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS.
3. SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A120-83 WITH CAST IRON SCREWED FITTINGS ANSI B16.22 1983.

E. SITE STORM AND SANITARY SEWERS

1. UP TO 15" - PVC PLASTIC ASTM D3034 SDR 35 WITH ASTM D3212 GASKET JOINTS.

F. DOMESTIC WATER PIPING

1. INSTALL DOMESTIC WATER PIPING AS INDICATED ON DRAWINGS. INCLUDE ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES INCLUDING WATER METER AND BACKFLOW PREVENTER. EXTEND DOMESTIC WATER PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRED FOR COMPLETE INSTALLATION.
1. INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY NIBCO, CRANE OR MILWAUKEE. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.

2. DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:

   a. ABOVE GRADE - TYPE "L" HARD COPPER ASTM B88-832 WITH WROUGHT COPPER FITTINGS ASTM B16.22 1980 AND NON-LEAD OR ANTIMONY SOLDER JOINTS.
   b. BELOW GRADE - TYPE "K" SOFT COPPER WITHOUT JOINTS.
   c. FLUSH, VENT AND SANITIZE ALL WATER PIPING WITH CHLORINE AS REQUIRED PER AWWA, LOCAL BUILDING DEPARTMENT AND HEALTH DEPARTMENT CODES.
   d. DOMESTIC HOT AND COLD WATER PIPING UNDER CONCRETE FLOOR TO BE COVERED WITH SAND SO THAT PIPING WILL NOT BECOME EMBEDDED IN THE FLOOR SLAB.

4. ALL PIPING UNDER CONCRETE FLOOR SHALL BE TYPE "K" SOFT COPPER, CONTINUOUS. NO SPLICES OR FITTINGS WILL BE ALLOWED.
5. EXTREME CAUTION MUST BE TAKEN SO THAT NO COPPER PIPING AND INSULATION UNDER CONCRETE FLOORS BECOMES CRUSHED, CUT, SPLIT OR DEFORMED DURING THE POURING OF THE FLOOR SLAB.
6. ALL PIPING UNDER CONCRETE FLOORS SHALL BE COVERED INSIDE A PVC PIPE

G. PIPE SUPPORTS

1. PIPE SUPPORTS FOR HOT PIPE SHALL BE ANVIL FIG. 181 OR EQUAL.
2. PIPE SUPPORTS FOR NATURAL GAS SHALL BE ANVIL FIG. 260 OR EQUAL.

PLUMBING SYSTEMS AND EQUIPMENT

A. GENERAL

1. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK. SUBMISSION OF A BID ON THIS PROJECT SHALL BE CONSTRUED AS HAVING SUCH KNOWLEDGE.
2. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.
3. DETERMINE EXACT LOCATIONS FOR ALL EQUIPMENT, PIPING, CONDUITS AND DUCTWORK IN FIELD.
4. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES. CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE SITE ENGINEER'S. SITE ENGINEER'S RESOLUTION TO CONFLICTS SHALL BE FINAL.
5. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE SITE ENGINEER'S BEFORE PROCEEDING.
6. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

B. EQUIPMENT

1. PLUMBING CONTRACTOR TO FURNISH ALL PLUMBING EQUIPMENT INDICATED AND/OR SCHEDULED ON THE DRAWINGS COMPLETE WITH BASES, ISOLATORS, SUPPORTS AND OTHER REQUIRED ACCESSORIES,
2. INSTALL COMPLETE AND PLACE IN PROPER OPERATION PER MANUFACTURER'S RECOMMENDATIONS, LUBRICATE AND ADJUST AS REQUIRED. FURNISH AND INSTALL CLEAN SET OF FILTERS PRIOR TO BALANCING.
3. EQUIPMENT TO BE MADE AND MODEL AS SCHEDULED UNLESS ALTERNATE EQUIPMENT OF EQUIVALENT QUALITY AND PERFORMANCE IS SUBMITTED AS A SUBSTITUTION PRIOR TO BIDDING. ALL SUBSTITUTIONS ARE SUBJECT TO ACCEPTANCE WITHOUT QUALIFICATION BY OWNER, ENGINEER AND SITE ENGINEER'S.

PLUMBING INSTRUMENTS AND CONTROLS

A. GENERAL

1. AFTER INSTALLATION, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. ALL PIPING SHALL BE TESTED AND FREE OF LEAKS AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
3. WORK THAT IS SCHEDULED TO BE CONCEALED OR INSULATED SHALL REMAIN UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED. IF THE CONSTRUCTION SCHEDULE REQUIRES, ARRANGE FOR TESTS ON SECTIONS OF THE SYSTEM AT A TIME.
4. BALANCE ALL SYSTEMS, CALIBRATE CONTROLS, CHECK FOR PROPER OPERATION AND SEQUENCE UNDER ALL CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS.
5. INSTRUCT OWNER IN OPERATION OF SYSTEMS AND SUBMIT OPERATING AND MAINTENANCE MANUAL FOR ALL EQUIPMENT AND SYSTEMS.
6. SUBMIT AIR AND WATER BALANCE REPORT FROM INDEPENDENT AABC OR NEBB CERTIFIED SUBCONTRACTOR FOR ALL AIR AND WATER SYSTEMS PER AABC OR NEBB STANDARDS.

TESTING, ADJUSTING, AND BALANCING

A. BALANCING, START UP AND INSTRUCTIONS

1. AFTER EQUIPMENT IS PLACED IN OPERATION, SYSTEMS SHALL BE BALANCED WITH REPORT SUBMITTED TO OWNER.
2. START UP AND PLACE ALL SYSTEMS IN OPERATION AND TAG ALL SWITCHES AND CONTROLS WITH PERMANENT LABELS INSTRUCT OWNER ON PROPER OPERATION AND PREVENTATIVE MAINTENANCE OF SYSTEM.

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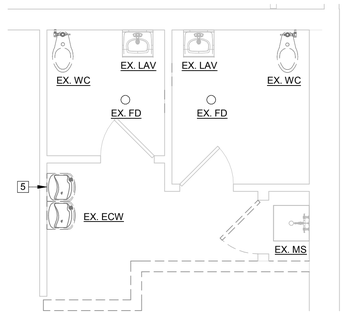
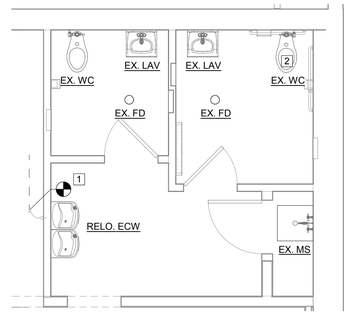
PROJECT NO. 8099-196
DRAWN BY TCR
APPV'D BY MPN
SHEET TITLE
PLUMBING SPECIFICATIONS
SHEET NO.
P0.1

KEYED NOTES [X]

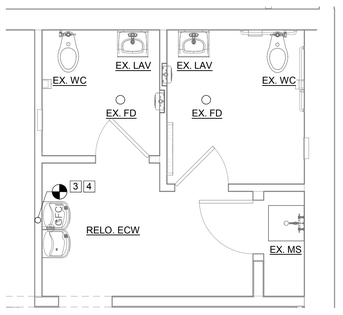
1	G.C. TO CONNECT NEW SANITARY LINE FROM RELOCATED WATER COOLER INTO EXISTING SANITARY LINE FROM WATER COOLER PRIOR TO RELOCATION.
2	G.C. TO CONNECT RELOCATED TOILET INTO EXISTING SANITARY LINE USING AN OFFSET FLANGE. REF: A3.0 FOR INSTALLATION LOCATION OF RELOCATED TOILET.
3	VERIFY SIZE AND POINT OF CONNECTION IN FIELD.
4	G.C. TO CONNECT NEW COLD WATER PIPING INTO EXISTING FROM PRIOR TO RELOCATION. PATCH AND REPAIR ADJACENT SURFACES AFFECTED BY WORK.
5	REMOVE EXISTING FIXTURES AS SHOWN. SAVE FOR RELOCATION. PROPERLY CAP-OFF, TERMINATE, OR REMOVE ALL ASSOCIATED PLUMBING LINES NOT BEING REUSED TO BELOW SLAB, ABOVE CEILING OR WITHIN REMAINING WALLS.



5 P1.0 SANITARY PIPING DEMO PLAN
SCALE: 1/4" = 1'-0"



1 P1.0 SANITARY PIPING PLAN
SCALE: 1/4" = 1'-0"

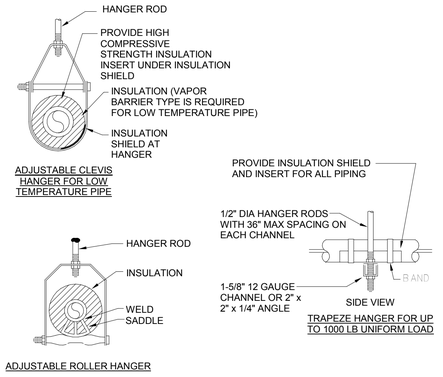


2 P1.0 DOMESTIC WATER PIPING PLAN
SCALE: 1/4" = 1'-0"

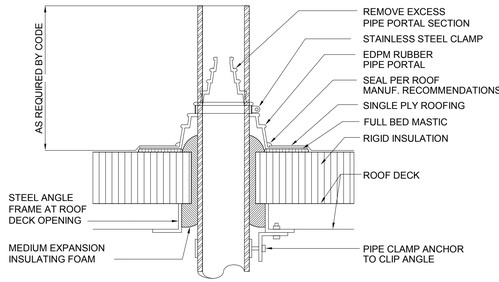
TABLE 5.303.2
FIXTURE FLOW RATES

FIXTURE TYPE	MAXIMUM FLOW RATE >20% REDUCTION
Showerheads	2.0 gpm @ 80 psi
Lavatory faucets, residential	1.5 gpm @ 60 psi[1]
Lavatory faucets, non-residential	0.5 gpm @ 60 psi[3]
Kitchen faucets	1.8 gpm @ 60 psi[2]
Wash fountains	1.8 [rim space (in.)/20 gpm @ 60 psi
Metering faucets	0.2 gallons/cycle
Metering faucets for wash fountains	.20 [rim space (in.)/20 gpm @ 60 psi]
Gravity tank type water closets	1.28 gallons/flush[1]
Flushometer tank water closets	1.28 gallons/flush[1]
Flushometer valve water closets	1.28 gallons/flush[1]
Electromechanical hydraulic water closet	1.28 gallons/flush[1]
Urinals	0.125 gallons/flush

[1] Lavatory faucets shall not have a flow rate less than 0.8 gpm @ 20 psi.
[2] Kitchen faucets may temporarily increase flow above the maximum rate, but not above 2.2 gpm @ 60 psi and must default to a maximum flow rate of 1.8 gpm @ 60 psi.
[3] Where complying faucets are unavailable, aerators rated at .35 gpm or other means may be used to achieve reduction.
[4] Includes single and dual flush water closets with an effective flush of 1.29 gallons or less. Single flush toilets: the effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is the average flush volume when tested in accordance with ASME A112.19.233.2. Dual flush toilets: the effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME A112.19.14.



3 P1.0 PIPING SUPPORT DETAIL
SCALE: 12" = 1'-0"



4 P1.0 PIPE ROOF PENETRATION DETAIL
SCALE: 1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL #	CONNECTIONS				ACCESSORIES	NOTES	ALTERNATE MANUFACTURERS
				VENT	WASTE	COLD	HOT			
EWC	ELECTRIC WATER COOLER	EX.	EX.	-	-	-	-	-	-	-
FCO	FLOOR CLEANOUT	EX.	EX.	-	-	-	-	-	-	-
FD	FLOOR DRAIN	EX.	EX.	-	-	-	-	-	-	-
LAV	LAVATORY	EX.	EX.	-	-	-	-	-	-	-
MS	MOP SINK	EX.	EX.	-	-	-	-	-	-	-
TP	TRAP PRIMER	EX.	EX.	-	-	-	-	-	-	-
TX	POWER TRANSFORMER	EX.	EX.	-	-	-	-	-	-	-
UR	URINAL	EX.	EX.	-	-	-	-	-	-	-
WC	WATER CLOSET	EX.	EX.	-	-	-	-	-	-	-
WCO	WALL CLEANOUT	EX.	EX.	-	-	-	-	-	-	-
WH	WATER HEATER	EX.	EX.	-	-	-	-	-	-	-
WHA	WATER HAMMER ARRESTOR	EX.	EX.	-	-	-	-	-	-	-

PLUMBING GENERAL NOTES

A. ALL PLUMBING LINES NOT BEING REUSED TO BE REMOVED OR CAPPED OFF BELOW SLAB, WITHIN WALL, OR ABOVE CEILING.
B. CONTRACTOR TO VERIFY ALL EXISTING LINES PRIOR TO ANY REMOVAL OR INSTALLATION.
C. THE PLUMBING SYSTEMS (SANITARY, WASTE DISTRIBUTION, AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE PLUMBING CODE.
D. GAS PIPING AND EQUIPMENT WILL BE INSTALLED IN FULL COMPLIANCE WITH THE GAS CODE.

NOTE:
REFERENCE MECHANICAL DRAWINGS FOR GAS PIPING PLANS.

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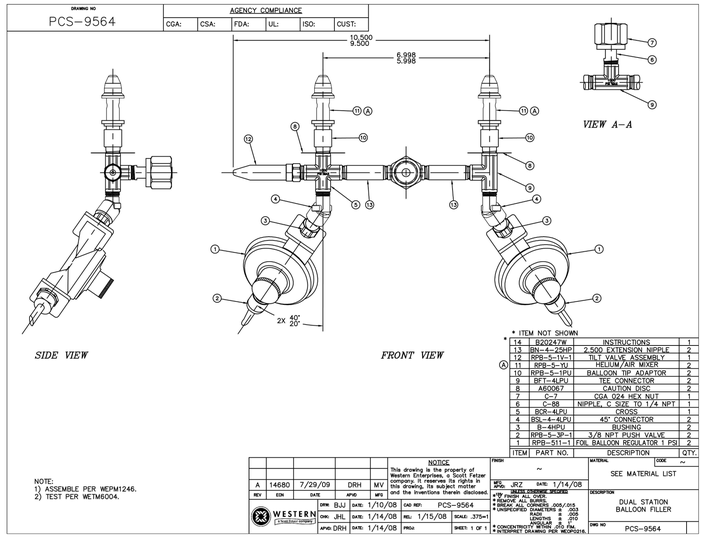
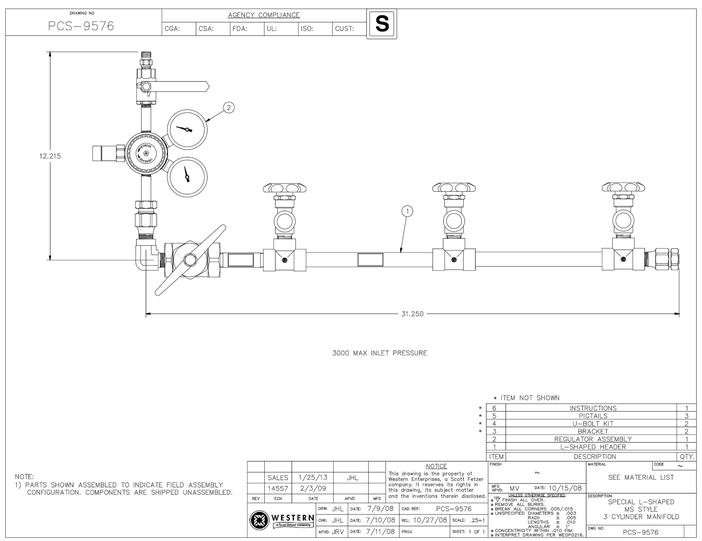
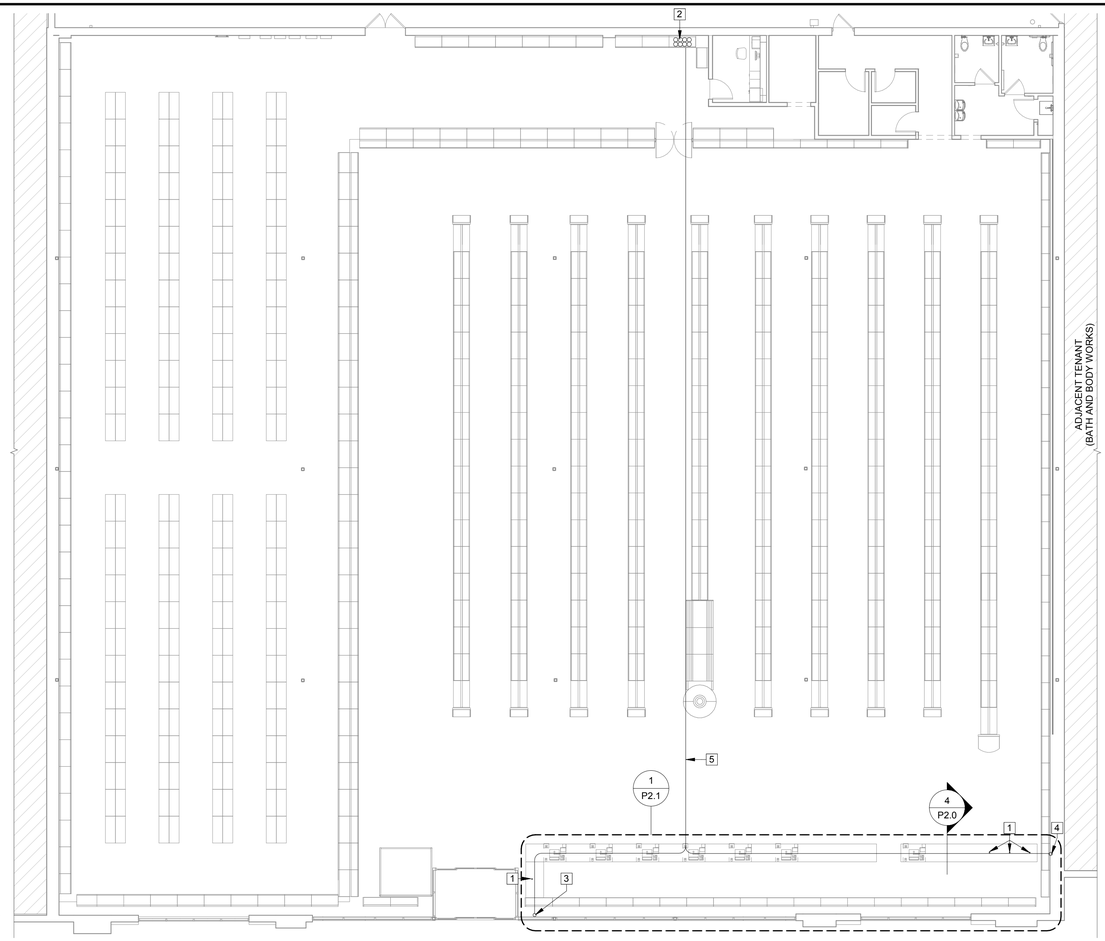


7 P4.0 DUAL-STATION BALLOON FILLER
SCALE: NTS

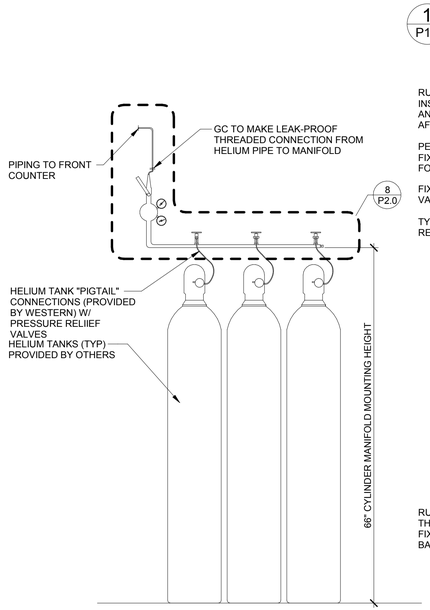


8 P4.0 3 CYLINDER MANIFOLD
SCALE: NTS

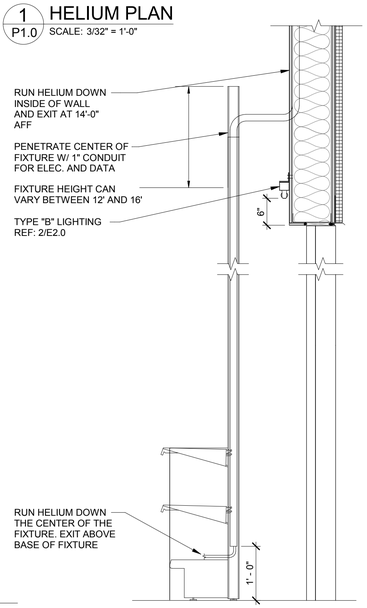
GENERAL NOTES:	
A.	CONTRACTOR TO COORDINATE HELIUM PIPING, MANIFOLD AND BALLOON FILLING STATION LOCATIONS WITH FINAL APPROVED PARTY CITY FIXTURE PLAN AND TENANT PM.
B.	ALL HELIUM MANIFOLD, PIGTAILS, AND FILLING STATIONS ARE PROVIDED BY WESTERN. (INSTALLED BY G.C.) CONTACT PREFERRED VENDER "WESTERN" FOR ALL HELIUM PIPING, FITTING, PART DETAILS, AND INSTALLATION INSTRUCTIONS (SEE CONTRACTOR INFORMATION SHEET).
C.	HELIUM TANKS SHALL BE PROVIDED & INSTALLED BY OTHERS.
D.	HELIUM PIPING ASSEMBLY AND LABELING TO COMPLY WITH ALL STATE, CITY AND LOCAL CODES AND REGULATIONS.
E.	CONTRACTOR TO INCLUDE HELIUM IDENTIFICATION STICKERS ON CONDUIT PIPING AS REQUIRED BY LOCAL CODE
F.	CONTRACTOR TO PERFORM A PRESSURIZED PERFORMANCE TEST OF THE HELIUM ASSEMBLY PRIOR TO PROJECT COMPLETION IN CONFORMANCE WITH ASTM AND ASME SPECIFICATIONS. SYSTEM SHALL MEET OPERATIONAL PRESSURE OF 100 PSI MIN WITH NO LEAKAGE FOR 24 HOURS. PROVIDE TESTING REPORT TO PARTY CITY UPON COMPLETION.



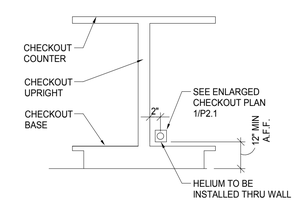
1 P1.0 HELIUM PLAN
SCALE: 3/32" = 1'-0"



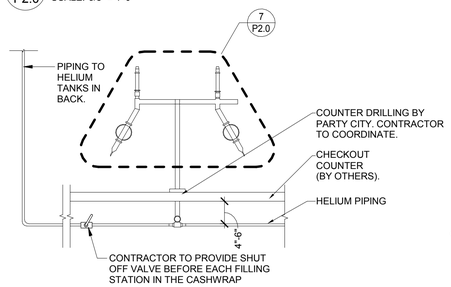
2 P2.0 HELIUM PIPING AT TANKS
SCALE: 1" = 1'-0"



3 P2.0 CHECKOUT HELIUM DETAIL
SCALE: 3/4" = 1'-0"

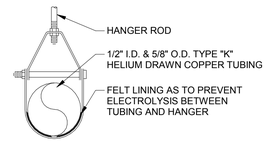


4 P2.0 HELIUM CHECKOUT SECTION
SCALE: 3/8" = 1'-0"



HELIUM PIPING BY G.C. TO RUN UNDER COUNTER TO EACH FILLING STATION INCLUDING FITTINGS, T-CONNECTIONS, AND SHUT-OFF VALVES AS REQ'D.(COORDINATE EXACT PLACEMENT IN FIELD W/ TENANT PM)

5 P2.0 TYP. DUAL HELIUM STATION
SCALE: 1 1/2" = 1'-0"



B3100F - 1 - STANDARD CLEVIS HANGER
FELT LINED FOR COPPER TUBING

6 P2.0 PIPING SUPPORT DETAIL
SCALE: 12" = 1'-0"

KEYED NOTES [X]

1	HELIUM FILLING STATION (NOTE: 3 NOZZLES @ DESIGN STUDIO END OF CASHWRAP NEED TO PLACED 3'-0" APART.) REF: DTL. 5/P2.0.
2	HELIUM TANKS. RE: DTL. 2/P2.0. G.C. TO PROVIDE PLYWOOD BACK & HELIUM TANK ANCHOR AS NOTED ON A8.0.
3	G.C. TO RUN (1) HELIUM PIPE DOWN WALL TO FEED SIDE OF CHECKOUT COUNTER. HELIUM TO BE RUN THROUGH WALL AS REQUIRED TO EXIT WALL AT 14'-0" AFF. INTO BACKSIDE OF GONDOLA, THROUGH GONDOLA FIXTURE TO EXIT AT 14'-0" AFF. AND INTO CASHWRAP. REF: DTL 3/P2.0
4	G.C. TO RUN (1) HELIUM PIPE DOWN WALL TO FEED SIDE OF CHECKOUT COUNTER. HELIUM TO BE RUN THROUGH WALL AS REQUIRED TO EXIT WALL AT 1'-0" AFF AND INTO CASHWRAP. REF: 4/P2.0
5	HELIUM PIPING MATERIAL TO BE 1/2" I.D. & 5/8" O.D. TYPE "K" DRAWN COPPER THROUGHOUT. CONNECT ALL COPPER PIPING WITH SWEAT FITTING "95/5 TIN-ANTIMONY SOLDER" TO ENSURE A CLOSED SYSTEM. REF: 6/P2.0 FOR SUPPORT DETAIL. MINIMIZE ALL BENDS.

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HELIUM SYSTEM
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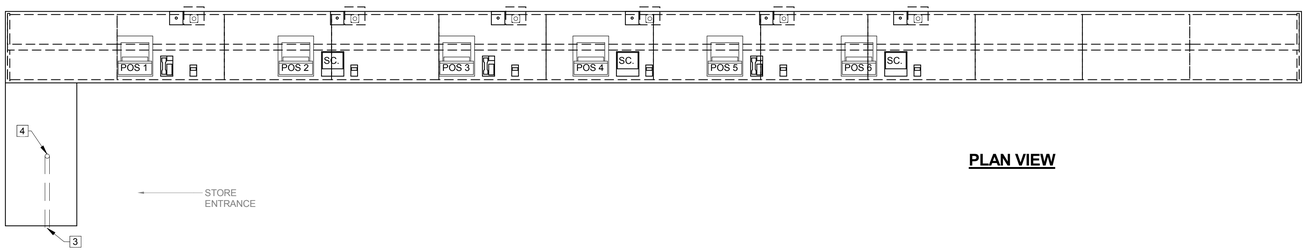
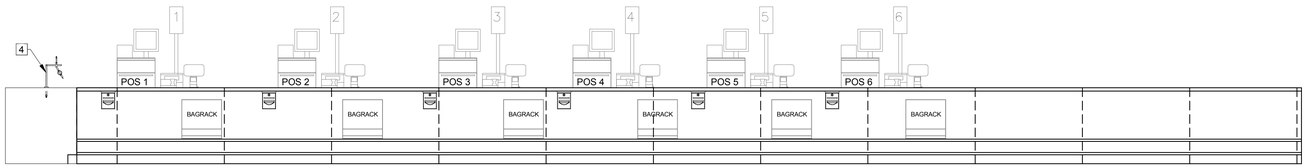
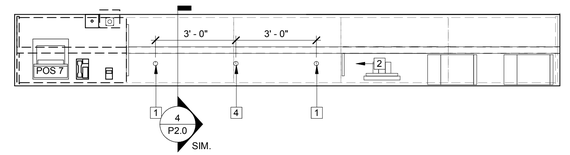
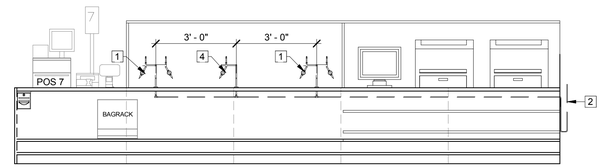
P2.0



PLAN VIEW







ELEVATION (CHECKOUT SIDE)

1 / P2.1 CHECKOUT / DESIGN STUDIO HELIUM PLAN W/ CHECKOUT ON LEFT

SCALE: 3/8" = 1'-0"

KEYED NOTES [X]

1	HELIUM FILLING STATION (NOTE: 2 NOZZLES) REF: DTL. 5/P2.0.
2	G.C. TO RUN (1) HELIUM PIPE DOWN WALL TO FEED SIDE OF CHECKOUT COUNTER. HELIUM TO BE RUN THROUGH WALL AS REQUIRED TO EXIT WALL AT 1'-0" AFF AND INTO CASHWRAP. REF: 3/P2.0.
3	G.C. TO RUN (1) HELIUM PIPE DOWN WALL TO FEED SIDE OF CHECKOUT COUNTER. HELIUM TO BE RUN THROUGH WALL AS REQUIRED TO EXIT WALL AT 14'-0" AFF, INTO BACKSIDE OF GONDOLA, THROUGH GONDOLA FIXTURE TO EXIT AT 14'-0" AFF. AND INTO CASHWRAP. REF: DTL. 3/P2.0.
4	HELIUM FILLING STATION (NOTE: 1 NOZZLE)

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DRAWN BY TCR

APP'D BY MPN

SHEET TITLE
HELIUM PLANS/ ELEVATIONS

SHEET NO.
P2.1

EXISTING WORK

A. PRIOR TO CONSTRUCTION & INSTALLATION, CONTRACTOR TO VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH INSTALLATION AS SET FORTH IN CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBLE FOR ALL NEW FLOOR OPENINGS, EXCAVATIONS, AND PENETRATIONS,UNLESS SPECIFICALLY NOTED. UNLESS SPECIFICALLY NOTED, UPON COMPLETION, ALL PENETRATIONS TO BE SEALED TO MAINTAIN FIRE RATING AS SPECIFIED ON ARCHITECTURAL DRAWINGS.
C. ALL CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
D. COORDINATE ANY NEW ROOF PENETRATIONS WITH THE OTHER TRADES.
E. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
F. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
G. MAINTAIN ACCESS TO EXISTING BOXES AND OTHER INSTALLATIONS REMAINING ACTIVE AND REQUIRING ACCESS. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL.
H. EXTEND EXISTING RACEWAY AND BOX INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
I. CLEAN AND REPAIR EXISTING COMPONENTS TO REMAIN OR TO BE REINSTALLED.
J. PROVIDE ACCESS TO EXISTING WIRING CONNECTIONS REMAINING ACTIVE AND REQUIRING ACCESS. MODIFY INSTALLATION OR INSTALL ACCESS PANEL.
K. EXTEND EXISTING CIRCUITS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
L. RING OUT CIRCUITS IN EXISTING PANEL AFFECTED BY THE WORK. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE. INSTALL NEW BREAKERS.
M. TAG UNUSED CIRCUITS AS SPARE AND SWITCH BREAKER TO THE "OFF" POSITION.
N. WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, USE SENSING MEASURING DEVICES TO VERIFY CIRCUITS FEEDING PROJECT AREA OR ARE NOT IN USE.
O. PROVIDE NEW UPDATED DIRECTORIES WHERE MORE THAN THREE CIRCUITS HAVE BEEN MODIFIED OR REWIRED.
P. IDENTIFY SALVAGE ITEMS IN COOPERATION WITH OWNER. REMOVE AND PROTECT ITEMS TO BE SALVAGED AND TURN OVER TO OWNER.
Q. CAREFULLY REMOVE EQUIPMENT, MATERIALS, OR FIXTURES WHICH ARE TO BE REUSED.

MINOR ELECTRICAL DEMOLITION

A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
B. CEASE OPERATIONS IMMEDIATELY WHEN STRUCTURE APPEARS TO BE IN DANGER AND NOTIFY ARCHITECT/ENGINEER. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
C. VERIFY WIRING AND EQUIPMENT INDICATED TO BE DEMOLISHED SERVE ONLY ABANDONED FACILITIES.
D. PROVIDE TEMPORARY EGRESS SIGNAGE AND EMERGENCY LIGHTING.
E. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
G. REMOVE EXPOSED ABANDONED WIRE, CABLE, CONDUIT, GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED CONDUITS AND SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS. PATCH SURFACES DAMAGED BY REMOVAL OF EXISTING COMPONENTS.
H. DISCONNECT ABANDONED CIRCUITS AND OUTLETS AND REMOVE ABANDONED RACEWAY, OUTLETS, BOXES, WIRE, AND CABLE INCLUDING ABOVE ACCESSIBLE CEILING FINISHES. CUT RACEWAY FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES. REMOVE CONCEALED ABANDONED RACEWAY TO ITS SOURCE.
I. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUED SERVICE TO NEAREST AVAILABLE PANEL. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
J. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN (AFFECTED BY THE SCOPE OF THE PROJECT) OR TO BE REINSTALLED.
L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.
M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS AND MARK AS SPARE.

RACEWAY AND BOXES

A. PROVIDE RACEWAY AND BOXES LOCATED AS INDICATED, AND AT OTHER LOCATIONS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND COMPLIANCE WITH REGULATORY REQUIREMENTS. RACEWAY AND BOXES ARE SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. PROVIDE RACEWAY TO COMPLETE WIRING SYSTEM.
B. UNDERGROUND MORE THAN 5 FEET OUTSIDE FOUNDATION WALL: PROVIDE SCHEDULE 80 PVC. PROVIDE CAST METAL BOXES OR NONMETALLIC HANDHOLES WHERE REQUIRED.
C. UNDERGROUND WITHIN 5 FEET FROM FOUNDATION WALL: PROVIDE RIGID STEEL CONDUIT OR THICKWALL NONMETALLIC CONDUIT (SCHEDULE 80 PVC). PROVIDE CAST METAL OR NONMETALLIC BOXES.
D. IN OR UNDER SLAB ON GRADE: PROVIDE THICK WALL NONMETALLIC CONDUIT. PROVIDE CAST OR NONMETALLIC METAL BOXES.
E. OUTDOOR LOCATIONS, ABOVE GRADE: PROVIDE RIGID STEEL CONDUIT. PROVIDE CAST METAL OR NONMETALLIC OUTLET, PULL, AND NEMA-3R RATED JUNCTION BOXES.
F. IN SLAB ABOVE GRADE: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST NONMETALLIC BOXES.
G. WET AND DAMP LOCATIONS: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST METAL OR NONMETALLIC OUTLET, NEMA-3R RATED JUNCTION, AND PULL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
H. CONCEALED DRY LOCATIONS: PROVIDE ELECTRICAL METALLIC TUBING. PROVIDE SHEET-METAL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS. PROVIDE HINGED ENCLOSURE FOR LARGE PULL BOXES.
I. MINIMUM RACEWAY SIZE: 3/4 INCH UNLESS OTHERWISE SPECIFIED.
J. ARRANGE RACEWAY AND BOXES TO MAINTAIN HEADROOM AND PRESENT NEAT APPEARANCE. GROUP RELATED RACEWAY; SUPPORT USING CONDUIT RACK; PROVIDE SPACE ON EACH FOR 25 PERCENT ADDITIONAL RACEWAYS.
K. RACEWAY ROUTING IS SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. ROUTE TO COMPLETE WIRING SYSTEM.
L. DO NOT SUPPORT RACEWAY WITH WIRE, PERFORATED PIPE STRAPS, CEILING SUPPORT WIRES OR OTHER PIPING SYSTEMS.
M. ROUTE EXPOSED & ABOVE ACCESSIBLE CEILINGS RACEWAY PARALLEL AND PERPENDICULAR TO WALLS.
N. DO NOT CROSS CONDUITS IN SLAB.
O. INSTALL NO MORE THAN EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN BOXES. INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS. INSTALL FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2 INCH SIZE.
P. AVOID MOISTURE TRAPS; INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM.
Q. INSTALL FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE RACEWAY CROSSES SEISMIC, CONTROL AND EXPANSION JOINTS.
R. INSTALL SUITABLE PULL STRING OR CORD IN EACH EMPTY RACEWAY EXCEPT SLEEVES AND NIPPLES.
S. CLOSE ENDS AND UNUSED OPENINGS IN WIREWAY.
T. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.
U. IN ACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING ACCESS PANEL OR FROM REMOVABLE RECESSED LUMINAIRE.
V. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.
W. DO NOT INSTALL FLUSH MOUNTING BOX BACK-TO-BACK IN WALLS; INSTALL WITH MINIMUM 6 INCHES SEPARATION. INSTALL WITH MINIMUM 24 INCHES SEPARATION IN ACOUSTIC RATED WALLS.
X. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES OR OTHER PIPING SYSTEMS.
Y. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
Z. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
AA. SET FLOOR BOXES LEVEL AND FLUSH WITH FINISH FLOORING MATERIAL
AB. INSTALL CONDUIT TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS.
AC. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK OR THROUGH SUITABLE ROOF JACK WITH PITCH POCKET
AD. ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.

ELECTRICAL SPECIFICATIONS

A. ALL ELECTRICAL WORK TO CONFORM TO:
  1. NFPA 70 (NATIONAL ELECTRIC CODE) - CURRENT VERSION
  2. NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) - STANDARD OF INSTALLATION
  3. NETA ATS (INTERNATIONAL ELECTRICAL TESTING ASSOCIATION) - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS.
  4. NFPA 72 (NATIONAL FIRE PROTECTION ASSOCIATION - NATIONAL FIRE ALARM CODE).
  5. ALL APPLICABLE LOCAL CODES.
B. ALL WORK SHOWN ON THIS DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
C. PROVIDE TEMPORARY POWER REQUIRED FOR ALL TRADES.
D. MATCH OWNERS EXISTING STANDARD EQUIPMENT.
E. COORDINATE WORK TO MINIMIZE OUTAGE DURATION.
F. OBTAIN ALL REQUIRED PERMITS & INSPECTIONS.
G. PROVIDE FOR ELECTRICAL INSPECTIONS AND SUBMIT REPORTS TO THE OWNER.
H. SUBMIT O&M MANUALS TO OWNER UPON COMPLETION OF WORK.
I. PROVIDE TRAINING SESSION FOR DESIGNATED MAINTENEANCE PERSONNEL.
J. PROVIDE SUBMITTALS FOR ALL ELECTRICAL EQUIPMENT, EXCLUDING WIRE, CONDUIT, AND FASTENERS.
  1. HANDHOLES.
  2. PANELBOARDS - SHOP DRAWINGS (INDICATE OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPACITY, INTEGRATED SHORT CIRCUIT AMPERE RATING, CIRCUIT BREAKER AND FUSIBLE SWITCH ARRANGEMENT AND SIZES) AND CATALOG DATA SHOWING SPECIFIED FEATURES OF STANDARD PRODUCTS.
  3. ENCLOSED SWITCHES - SWITCH RATINGS AND ENCLOSURE DIMENSIONS.
  4. DEVICES - MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS.
  5. LUMINAIRES (INCLUDING EMERGENCY & EXIT FIXTURES) - CATALOG INFORMATION SHOWING DIMENSIONS, RATINGS, AND PERFORMANCE DATA.
K. SELECT MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS, AND SUPPORTS TO CARRY LOADS OF EQUIPMENT AND RACEWAY, INCLUDING WEIGHT OF WIRE AND CABLE IN RACEWAY.

GROUNDING SYSTEMS

A. GROUNDING SYSTEM RESISTANCE: 25 OHMS.
B. GROUNDING SYSTEMS:
  1. MECHANICAL CONNECTORS: BRONZE CONNECTORS, SUITABLE FOR GROUNDING AND BONDING APPLICATIONS, IN CONFIGURATIONS REQUIRED FOR PARTICULAR INSTALLATION.
C. EXOTHERMIC CONNECTIONS: EXOTHERMIC MATERIALS, ACCESSORIES, AND TOOLS FOR PREPARING AND MAKING PERMANENT FIELD CONNECTIONS BETWEEN GROUNDING SYSTEM COMPONENTS.
D. WIRE: STRANDED COPPER.
E. GROUNDING ELECTRODE CONDUCTOR: SIZE TO MEET NFPA 70 AND LOCAL MUNICIPALITY REQUIREMENTS.
F. INSTALLATION:
  1. EQUIPMENT GROUNDING CONDUCTOR: INSTALL SEPARATE, INSULATED CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE LUG, BUS, OR BUSHING.
  2. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
  3. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE USING POWDER-ACTUATED ANCHORS OR DRILLING OR CUTTING STRUCTURAL MEMBERS.

HANGERS AND SUPPORTS

A. ANCHORS & FASTENERS TO BE CORROSION RESISTANT.
B. ANCHOR AND FASTEN ELECTRICAL PRODUCTS TO BUILDING ELEMENTS AND FINISHES AS FOLLOWS:
  1. CONCRETE STRUCTURAL ELEMENTS: PROVIDE EXPANSION ANCHORS.
  2. STEEL STRUCTURAL ELEMENTS: PROVIDE BEAM CLAMPS AND SPRING STEEL CLIPS.
  3. CONCRETE SURFACES: PROVIDE EXPANSION ANCHORS.
  4. HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD PARTITIONS: PROVIDE TOGGLE BOLTS AND HOLLOW WALL FASTENERS.
  5. SOLID MASONRY WALLS: PROVIDE EXPANSION ANCHORS.
  6. SHEET METAL: PROVIDE SHEET METAL SCREWS.
  7. WOOD ELEMENTS: PROVIDE WOOD SCREWS.
C. SUPPORTS:
  1. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR FORMED STEEL MEMBERS. RIGIDLY WELD MEMBERS OR INSTALL HEXAGON HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. INSTALL SPRING LOCK WASHERS UNDER NUTS.
  2. INSTALL SURFACE MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
  3. IN WET AND DAMP LOCATIONS INSTALL STEEL CHANNEL SUPPORTS TO STAND CABINETS AND PANELBOARDS 1 INCH OFF WALL.
  4. INSTALL SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.

BUILDING WIRE AND CABLE

A. PROVIDE PRODUCTS AS FOLLOWS:
  1. SOLID CONDUCTOR FOR FEEDERS AND BRANCH CIRCUITS 10 AWG AND SMALLER.
  2. STRANDED CONDUCTORS FOR CONTROL CIRCUITS.
  3. CONDUCTOR NOT SMALLER THAN #12 AWG FOR POWER AND LIGHTING CIRCUITS.
  4. CONDUCTOR NOT SMALLER THAN #16 AWG FOR CONTROL CIRCUITS.
  5. 10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET.
  6. 10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.
B. WIRING METHODS: PROVIDE THE FOLLOWING WIRING METHODS:
  1. CONCEALED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
  2. ABOVE ACCESSIBLE CEILINGS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
  3. WET OR DAMP INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
  4. UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
C. WIRE AND CABLE ROUTING INDICATED IS APPROXIMATE UNLESS DIMENSIONED. INCLUDE WIRE AND CABLE LENGTHS WITHIN 10 FT OF LENGTH SHOWN.
D. COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.
E. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
F. SPECIAL TECHNIQUES--BUILDING WIRE IN RACEWAY:
  1. PULL CONDUCTORS INTO RACEWAY AT SAME TIME.
  2. INSTALL BUILDING WIRE 4 AWG AND LARGER WITH PULLING EQUIPMENT.
G. SPECIAL TECHNIQUES - CABLE:
  1. PROTECT EXPOSED CABLE FROM DAMAGE.
  2. SUPPORT CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR CABLE TIES TO SUPPORT CABLES FROM STRUCTURE OR CEILING SUSPENSION SYSTEM. DO NOT REST CABLE ON CEILING PANELS.
  3. USE SUITABLE CABLE FITTINGS AND CONNECTORS.
H. SPECIAL TECHNIQUES - DIRECT BURIAL CABLE:
  1. TRENCH AND BACKFILL FOR DIRECT BURIAL CABLE INSTALLATION. INSTALL WARNING TAPE ALONG ENTIRE LENGTH OF DIRECT BURIAL CABLE, WITHIN 3 INCHES OF GRADE.
  2. USE SUITABLE DIRECT BURIAL CABLE FITTINGS AND CONNECTORS.
I. SPECIAL TECHNIQUES - WIRING CONNECTIONS:
  1. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND CONNECTORS.
  2. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE RISE.
  3. TAPE UNINSULATED CONDUCTORS AND CONNECTORS WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
  4. INSTALL SPLIT BOLT CONNECTORS OR MULTI-TAP BLOCKS FOR COPPER CONDUCTOR SPLICES AND TAPS, 6 AWG AND LARGER.
  5. INSTALL SOLDERLESS PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPS, 8 AWG AND SMALLER.
  6. INSTALL INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, 10 AWG AND SMALLER.
  7. TERMINATE EXISTING ALUMINUM CONDUCTORS WITH TIN-PLATED, ALUMINUM-BODIED COMPRESSION CONNECTORS ONLY. FILL WITH ANTI-OXIDANT COMPOUND BEFORE INSTALLING CONDUCTOR.
  8. INSTALL SUITABLE REDUCING CONNECTORS OR MECHANICAL CONNECTOR ADAPTORS FOR CONNECTING ALUMINUM CONDUCTORS TO COPPER CONDUCTORS.
J. GROUND CONDUCTORS:
  1. FOR 6 AWG AND SMALLER: GREEN.
  2. FOR 4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE POINTS INCLUDING JUNCTION BOXES.
K. ALL WIRING SHALL BE #12 CU UNLESS SPECIFIED OTHERWISE.

IDENTIFICATION

A. IDENTIFY ELECTRICAL COMPONENTS AS FOLLOWS:
  1. ENGRAVED LAMINATED PLASTIC NAMEPLATE FOR EACH ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT ENCLOSURE, AND COMMUNICATION CABINET.
  2. CLOTH TYPE WIRE MARKER FOR EACH CONDUCTOR AT PANELBOARD GUTTERS, AND PULL BOXES.
  3. RACEWAY MARKER FOR EACH RACEWAY WHERE IT STUBS ABOVE THE CEILING OR BELOW THE FLOOR.
  4. UNDERGROUND WARNING TAPE ALONG LENGTH OF EACH UNDERGROUND RACEWAY OR CABLE, 3" BELOW FINISHED GRADE. TAPE TO BE 4-INCH WIDE PLASTIC TAPE, DETECTABLE TYPE, COLORED YELLOW WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES.

SEALING AND FIREPROOFING

A. INSTALL FIRESTOPPING TO MAINTAIN ALL RATINGS AT ALL FIRE SEPARATIONS.
B. FIRE RATED SURFACE:
  1. SEAL OPENING AT AS FOLLOWS:
C. INSTALL 12 GAGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
D. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
E. PACK VOID WITH BACKING MATERIAL.
F. SEAL ENDS OF SLEEVE WITH UL LISTED FIRE RESISTIVE SILICONE COMPOUND TO MEET FIRE RATING OF STRUCTURE PENETRATED.
  1. WHERE CABLE TRAY, BUS, CABLE BUS, CONDUIT, WIREWAY, OR TROUGH PENETRATES FIRE RATED SURFACE, INSTALL FIRESTOPPING PRODUCT IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
G. NON-RATED SURFACES:
  1. SEAL OPENING THROUGH NON-FIRE RATED ROOF OPENING AS FOLLOWS:
H. INSTALL 12 GAGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
I. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
J. INSTALL TYPE OF FIRESTOPPING MATERIAL RECOMMENDED BY MANUFACTURER.
  1. EXTERIOR WALL OPENINGS BELOW GRADE: ASSEMBLE RUBBER LINKS OF MECHANICAL SEAL TO SIZE OF CONDUIT AND TIGHTEN IN PLACE, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

PANELBOARDS

A. MANUFACTURERS:
  1. EATON/CUTLER-HAMMER.
  2. GE ELECTRICAL.
  3. SIEMENS/ITE.
  4. SQUARE D MODEL.
B. BOLT-ON CIRCUIT BREAKER TYPE, DISTRIBUTION ,LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
C. PANELBOARD BUS: COPPER CURRENT CARRYING COMPONENTS, RATINGS AS INDICATED ON DRAWINGS. FURNISH COPPER GROUND BUS IN EACH PANELBOARD; FURNISH INSULATED GROUND BUS AS INDICATED ON DRAWINGS.
D. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 22,000 AMPERES RMS SYMMETRICAL FOR 240 VOLT PANELBOARDS; 65,000 AMPERES RMS SYMMETRICAL FOR 480 VOLT PANELBOARDS.
E. MOLDED CASE CIRCUIT BREAKERS: NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS, TYPE HACR FOR AIR CONDITIONING EQUIPMENT CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. DO NOT USE TANDEM CIRCUIT BREAKERS.
F. ENCLOSURE: NEMA PB 1, TYPE 1
G. CABINET BOX: 6 INCHES DEEP, 20 INCHES WIDE FOR 240 VOLT AND LESS PANELBOARDS, 20 INCHES WIDE FOR 480 VOLT PANELBOARDS.
H. CABINET FRONT: SURFACE DOOR-IN-DOOR TYPE, FASTENED WITH HINGE AND LATCH, HINGED DOOR WITH FLUSH LOCK, METAL DIRECTORY FRAME, FINISHED IN MANUFACTURER'S STANDARD GRAY ENAMEL. OUTER PANELBOARD TRIMS SHALL COVER ALL LIVE PARTS. SWITCHING DEVICE HANDLES SHALL BE ACCESSIBLE.
I. SURFACE TRIMS SHALL BE SAME HEIGHT AND WIDTH AS BOX. FLUSH TRIMS SHALL OVERLAP THE BOX BY 3/4 OF AN INCH ON ALL SIDES.
J. INSTALL RECESSED PANELBOARDS FLUSH WITH WALL FINISHES.
K. HEIGHT: 6 FEET TO TOP OF PANELBOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET WITH BOTTOM NO MORE THAN 4 INCHES ABOVE FLOOR.
L. INSTALL FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.
M. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD PER ARICHTECTURAL ROOM DESIGNATIONS. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES TO BALANCE PHASE LOADS.
N. MARK UNUSED CIRCUIT BREAKERS AS SPARE AND SWITCH TO OFF POSITION.
O. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD FEEDER; REARRANGE CIRCUITS IN PANELBOARD TO BALANCE PHASE LOADS TO WITHIN 20 PERCENT OF EACH OTHER. MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.

ENCLOSED SWITCHES

A. MANUFACTURERS:
  1. CUTLER-HAMMER. 2. SQUARE D. 3. GE ELECTRICAL. 4. SIEMENS.
B. PRODUCT DESCRIPTION: NEMA KS 1, TYPE HD WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, ENCLOSED LOAD INTERRUPTER KNIFE SWITCH. HANDLE LOCKABLE IN OFF POSITION, WITH PROVISIONS FOR THREE PADLOCKS.
C. SWITCH MECHANISM: TO BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION OF THE SWITCH, THE OPERATION OF THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OR OPENING ACTION OF THE CONTACTS HAS STARTED.
D. FUSE CLIPS: DESIGNED TO ACCOMMODATE NEMA FU 1, CLASS R, J FUSES.
E. ENCLOSURE: NEMA CONFIGURATION TO MEET CONDITIONS
  1. INTERIOR DRY LOCATIONS: TYPE 1.
  2. EXTERIOR LOCATIONS: TYPE 3R.
  3. INDUSTRIAL LOCATIONS: TYPE 4X.
F. SERVICE ENTRANCE: SWITCHES IDENTIFIED FOR USE AS SERVICE EQUIPMENT ARE TO BE LABELED FOR THIS APPLICATION. FURNISH SOLID NEUTRAL ASSEMBLY AND EQUIPMENT GROUND BAR.
G. FURNISH SWITCHES WITH ENTIRELY COPPER CURRENT CARRYING PARTS.
H. SWITCH RATING: HORSEPOWER RATED FOR AC AS INDICATED ON DRAWINGS.
I. SHORT CIRCUIT CURRENT RATING: 200,000 RMS SYMMETRICAL AMPERES WHEN USED WITH OR PROTECTED BY CLASS R OR CLASS J FUSES (30-600 AMPERE SWITCHES EMPLOYING APPROPRIATE FUSE REJECTION SCHEMES).
J. HEIGHT: 5 FEET TO OPERATING HANDLE.
K. INSTALL FUSES FOR FUSIBLE DISCONNECT SWITCHES.

WIRING DEVICES

A. MANUFACTURERS:
  1. PASS & SEYMOUR LEGRAND. 2. HUBELL. 3. LEVITON. 4. GENERAL ELECTRIC.
B. PRODUCT DESCRIPTION: NEMA WD 1, HEAVY-DUTY, AC ONLY SPECIFICATION GRADE SWITCH/RECEPTACLE. ALL DEVICES TO BE SPECIFICATION GRADE OR BETTER.
C. BODY / HANDLE: IVORY PLASTIC WITH TOGGLE HANDLE.
D. RATINGS: MATCH BRANCH CIRCUIT AND LOAD CHARACTERISTICS, MINIMUM 20A.
E. GFCI RECEPTACLE: CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS.
F. WP RECEPTACLE: (WEATHERPROOF) TO BE GFI PROTECTED.

WALL PLATES

A. MANUFACTURERS:
  1. PASS & SEYMOUR LEGRAND.
  2. TAYMAC 20510 (WEATHERPROOF-IN-USE).
  3. HUBELL (BELL/RACO).
  4. LEVITON.
  5. GENERAL ELECTRIC.
B. INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS. DECORATIVE COVER PLATE: NYLON.
C. INSTALL JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS. JUMBO COVER PLATE: NYLON.
D. WEATHERPROOF COVER PLATE (RECEPTACLE): IMPACT RESISTANT PLASTIC PLATE WITH HINGED AND GASKETED DEVICE COVER. COVER TO BE RATED FOR WET LOCATION WHILE IN USE, AND TO BE LOCKABLE.
E. WEATHERPROOF COVER PLATE (SWITCH): GASKETED CAST METAL PLATE WITH HINGED AND GASKETED DEVICE COVER OR LEVER SWITCH MECHANISM. (P&S CA-31G/HUBBELL/BELL/RACO 5125 OR EQUAL)
F. KITCHEN AREAS: 302/430 STAINLESS STEEL, WEATHERPROOF FOR STARTUPS.
G. INSTALL GALVANIZED (STAMPED) STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE MOUNTED OUTLETS.
H. INSTALL DEVICES PLUMB AND LEVEL.
I. INSTALL SWITCHES WITH OFF POSITION DOWN.
J. INSTALL RECEPTACLES WITH GROUNDING POLE ON TOP, OR TO THE LEFT (IF MOUNTED HORIZONTALLY.
K. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
L. CONNECT WIRING DEVICES BY WRAPPING SOLID CONDUCTOR AROUND SCREW TERMINAL. INSTALL STRANDED CONDUCTOR FOR BRANCH CIRCUITS 10 AWG AND SMALLER. WHEN STRANDED CONDUCTORS ARE USED IN LIEU OF SOLID, USE CRIMP ON FORK TERMINALS FOR DEVICE TERMINATIONS. DO NOT PLACE BARE STRANDED CONDUCTORS DIRECTLY UNDER DEVICE SCREWS.
M. ADJUST DEVICES AND WALL PLATES TO BE FLUSH AND LEVEL.

INTERIOR LUMINAIRES

A. ALL FIXTURES TO BE SPECIFICATION GRADE OR BETTER.
B. PERFORMANCE REQUIREMENTS: FOR AREAS OF ASSEMBLY, SUBMIT POINT-BY-POINT LIGHT LEVEL CALCULATIONS TO VERIFY COMPLIANCE WITH DESIGN LEVELS.
C. PROVIDE COMPLETE INTERIOR LUMINAIRE ASSEMBLIES, WITH FEATURES, OPTIONS, AND ACCESSORIES AS SCHEDULED.
D. INSTALL SUSPENDED LUMINAIRES USING PENDANTS SUPPORTED FROM SWIVEL HANGERS OR CABLE SUPPORTS. INSTALL PENDANT LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.
E. SUPPORT LUMINAIRES LARGER THAN 2 X 4 FOOT SIZE INDEPENDENT OF CEILING FRAMING.
F. INSTALL SURFACE MOUNTED LUMINAIRES PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PREVENT MOVEMENT.
G. EXPOSED GRID CEILINGS: SUPPORT SURFACE-MOUNTED LUMINAIRES ON GRID CEILING DIRECTLY FROM BUILDING. FASTEN SURFACE MOUNTED LUMINAIRES TO CEILING GRID MEMBERS USING BOLTS, SCREWS, RIVETS, OR SUITABLE CLIPS.
H. INSTALL RECESSED LUMINAIRES TO PERMIT REMOVAL FROM BELOW.
I. INSTALL RECESSED LUMINAIRES USING ACCESSORIES AND FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.
J. INSTALL CLIPS TO SECURE RECESSED GRID-SUPPORTED LUMINAIRES IN PLACE.
K. CONNECT LUMINAIRES TO BRANCH CIRCUIT OUTLETS USING FLEXIBLE CONDUIT. MAXIMUM LENGTH FIXTURE WHIP TO BE 5 FEET.
L. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE.
M. INSTALL SPECIFIED LAMPS IN EACH LUMINAIRE.
N. AIM AND ADJUST LUMINAIRES TO PROVIDE LIGHT LEVELS CONSISTENT WITH DESIGN.

FLOURESCENT BALLASTS

A. MANUFACTURERS:
  1. ADVANCE TRANSFORMER. 2. OSRAM SYLVANIA QUIKTRONIC. 3. GE/MAGNETEK.
B. PRODUCT DESCRIPTION: HIGH FREQUENCY ELECTRONIC BALLAST, INSTANT START, LESS THAN 20 PERCENT THD, SUITABLE FOR LAMPS SPECIFIED, WITH VOLTAGE TO MATCH LUMINAIRE VOLTAGE.

HIGH INTENSITY DISCHARGE (HID) BALLASTS

A. MANUFACTURERS:
  1. VENTURE LIGHTING INTERNATIONAL INC OPTI-WAVE.
  2. ADVANCE TRANSFORMER.
  3. OSRAM SYLVANIA.
  4. GE/MAGNETEK.
B. PRODUCT DESCRIPTION: ANSI C82.4, HIGH PRESSURE SODIUM, SUITABLE FOR LAMP SPECIFIED WITH UNIVERSAL VOLTAGE.
C. PRODUCT DESCRIPTION: ANSI C82.4 PULSE START METAL HALIDE LAMP BALLAST, SUITABLE FOR LAMP SPECIFIED, WITH UNIVERSAL/MULTI-TAP VOLTAGE CAPABILITIES. PROVIDE PULSE START SYSTEM, WITH THE BULB AND THE BALLAST AS THE SYSTEM.

FLOURESCENT LAMPS

A. MANUFACTURERS:
  1. PHILIPS LIGHTING COMPANY ALTO PLUS
  2. OSRAM SYLVANIA ECOLOGIC
  3. GE LIGHTING ECOLUX

HID LAMPS

A. MANUFACTURERS:
  1. VENTURE LIGHTING INTERNATIONAL INC UNI-FORM.
  2. PHILIPS LIGHITNG COMPANY
  3. SYLVANIA
  4. GE LIGHTING
B. HID LAMPS TO BE SELF EXTINGUISHING TYPE.
C. HID LAMPS TO MEET FEDERAL STANDARD 21 CFR 1040.30 AND TO HAVE A TWO YEAR WARRANTY.

LED LIGHT FIXTURES

A. MANUFACTURERS:
  1. AS SPECIFIED IN LIGHT FIXTURE SCHEDULE.
B. CRI OF 80. CCT OF 4000K
C. RATED LAMP LIFE OF MIN. 50,000 HRS
D. LAMPS DIMMABLE FROM 100 PERCENT TO 0 PERCENT OF MAXIMUM LIGHT OUTPUT
E. INTERNAL DRIVER
F. NOMINAL OPERATING VOLTAGE 120/277V AC

EMERGENCY FLOURESCENT LIGHTING

A. MANUFACTURERS:
  1. AS SPECIFIED BY LIGHT FIXTURE SCHEDULE.
B. PRODUCT DESCRIPTION: SELF-CONTAINED INCANDESCENT (HALOGEN) EMERGENCY LIGHTING UNIT, WITH SELF-TEST DIAGNOSTICS.
C. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
D. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
E. LAMPS: 12 WATT MINIMUM, SEALED BEAM TYPE IN NICKEL OR CHROME PLATED STEEL HOUSING.
F. HOUSING: WHITE PLASTIC.
G. INDICATORS: LAMPS TO INDICATE AC ON AND RECHARGING. VOLTMETER TO INDICATE BATTERY VOLTAGE.
H. TEST SWITCH: TRANSFERS UNIT FROM EXTERNAL POWER SUPPLY TO INTEGRAL BATTERY SUPPLY.
I. AIM AND ADJUST LAMP FIXTURES TO PROVIDE OPTIMAL COVERAGE.

EMERGENCY LED LIGHTING

A. MANUFACTURERS:
  1. AS SPECIFIED BY LIGHT FIXTURE SCHEDULE.
B. PRODUCT DESCRIPTION: SELF-CONTAINED LED EMERGENCY LIGHTING UNIT, WITH SELF-TEST DIAGNOSTICS.
C. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
D. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
E. HOUSING: WHITE PLASTIC.
F. INDICATORS: LAMPS TO INDICATE AC ON AND RECHARGING. VOLTMETER TO INDICATE BATTERY VOLTAGE.
G. TEST SWITCH: TRANSFERS UNIT FROM EXTERNAL POWER SUPPLY TO INTEGRAL BATTERY SUPPLY.
H. AIM AND ADJUST LAMP FIXTURES TO PROVIDE OPTIMAL COVERAGE.

EXIT SIGNS

A. MANUFACTURERS:
  1. AS SPECIFIED IN LIGHT FIXTURE SCHEDULE.
B. PRODUCT DESCRIPTION: EXIT SIGN FIXTURE, WITH SELF-TEST DIAGNOSTICS.
C. FACE: STENCIL FACE WITH RED LETTERS.
D. DIRECTIONAL ARROWS: UNIVERSAL TYPE FOR FIELD ADJUSTMENT.
E. MOUNTING: AS INDICATED ON DRAWINGS OR UNIVERSAL, FOR FIELD SELECTION.
F. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
G. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
H. LAMPS: LED.
I. INPUT VOLTAGE: 120 VOLTS.
G. POSITION EXIT SIGN DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.

FIRE ALARM SYSTEM

A. SYSTEM DESCRIPTION: NONCODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.
B. SUBMITTALS
  1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
  2. SHOP DRAWINGS: FOR FIRE-ALARM SYSTEM. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
C. FIELD QUALITY-CONTROL REPORTS
  1. OPERATION AND MAINTENANCE DATA: FOR FIRE-ALARM SYSTEMS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.
D. INSTALLER QUALIFICATIONS:
  1. PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS.
  2. INSTALLATION SHALL BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM LEVEL II TECHNICIAN.
E. OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
F. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
  1. MANUAL STATIONS.
  2. HEAT DETECTORS.
  3. SMOKE DETECTORS.
  4. AUTOMATIC SPRINKLER SYSTEM WATER FLOW.
G. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
H. IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.
I. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION
J. GENERAL REQUIREMENTS FOR FIRE-ALARM CONTROL UNIT:
  1. FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, COMPLYING WITH UL 864 AND LISTED AND LABELED BY AN NRTL.
  2. ADDRESSABLE CONTROL CIRCUITS FOR OPERATION OF MECHANICAL EQUIPMENT.
  3. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM, SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU.
  4. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY, AND CONTROL COMMANDS AND TO INDICATE CONTROL COMMANDS TO BE ENTERED INTO THE SYSTEM FOR CONTROL OF SMOKE-DETECTOR SENSITIVITY AND OTHER PARAMETERS.
K. ADDRESSABLE INITIATION DEVICES THAT COMMUNICATE DEVICE IDENTITY AND STATUS.
L. SMOKE SENSORS SHALL ADDITIONALLY COMMUNICATE SENSITIVITY SETTING AND ALLOW FOR ADJUSTMENT OF SENSITIVITY AT FIRE-ALARM CONTROL UNIT.
M. TEMPERATURE SENSORS SHALL ADDITIONALLY TEST FOR AND COMMUNICATE THE SENSITIVITY RANGE OF THE DEVICE.
N. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE, 1 LINE(S) OF 40 CHARACTERS, MINIMUM.
O. INITIATING DEVICE, NOTIFICATION APPLIANCE, AND SIGNALING LINE CIRCUITS: NFPA 72, CLASS B.
P. AUTOMATICALLY TRANSMIT ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION.
Q. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES SHALL BE FINISHED IN RED WITH MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; SHALL SHOW VISIBLE INDICATION OF OPERATION; AND SHALL BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.
R. DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE AN ALARM, PULL-LEVER] TYPE; WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
S. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
T. GENERAL REQUIREMENTS FOR SYSTEM SMOKE DETECTORS:
  1. INTEGRAL ADDRESSABLE MODULE: ARRANGED TO COMMUNICATE DETECTOR STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
  2. BASE MOUNTING: DETECTOR AND ASSOCIATED ELECTRONIC COMPONENTS SHALL BE MOUNTED IN A TWIST-LOCK MODULE THAT CONNECTS TO A FIXED BASE. PROVIDE TERMINALS IN THE FIXED BASE FOR CONNECTION TO BUILDING WIRING.
  3. SELF-RESTORING: DETECTORS DO NOT REQUIRE RESETTING OR READJUSTMENT AFTER ACTUATION TO RESTORE THEM TO NORMAL OPERATION.
  4. INTEGRAL VISUAL-INDICATING LIGHT: LED TYPE INDICATING DETECTOR HAS OPERATED AND POWER-ON STATUS
  5. PHOTOELECTRIC SMOKE DETECTORS:
  6. DETECTOR ADDRESS SHALL BE ACCESSIBLE FROM FIRE-ALARM CONTROL UNIT AND SHALL BE ABLE TO IDENTIFY THE DETECTOR'S LOCATION WITHIN THE SYSTEM AND ITS SENSITIVITY SETTING.
U. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:
  1. PRIMARY STATUS.
  2. DEVICE TYPE.
  3. PRESENT AVERAGE VALUE.
  4. PRESENT SENSITIVITY SELECTED.
  5. SENSOR RANGE (NORMAL, DIRTY, ETC.).
V. HEAT DETECTORS, GENERAL REQUIREMENTS FOR HEAT DETECTORS: COMPLY WITH UL 521.
W. REMOTE ANNUNCIATOR
  1. ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, ESETTING, AND TESTING.
  2. MOUNTING: FLUSH CABINET, NEMA 250, TYPE 1.
  3. DISPLAY TYPE AND FUNCTIONAL PERFORMANCE: ALPHANUMERIC DISPLAY AND LED INDICATING LIGHTS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT. PROVIDE CONTROLS TO ACKNOWLEDGE, SILENCE, RESET, AND TEST FUNCTIONS FOR ALARM, SUPERVISORY, AND TROUBLE SIGNALS.
X. EQUIPMENT INSTALLATION
  1. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT.
  2. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE THE FINISHED FLOOR.
Y. LOCATE DETECTORS NOT CLOSER THAN 3 FEET (1 M) FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.
Z. LOCATE DETECTORS NOT CLOSER THAN 12 INCHES (300 MM) FROM ANY PART OF A LIGHTING FIXTURE.
AA. FIRE-ALARM CONTROL UNIT: SURFACE MOUNTED, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE THE FINISHED FLOOR.
AB. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.
AC. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.

PartyCity
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PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APPV'D BY PL
SHEET TITLE ELECTRICAL SPECIFICATIONS
SHEET NO. E0.1

KEYED NOTES [x]

1	ELECTRICAL DISTRIBUTION EQUIPMENT. SEE RISER DIAGRAM SHEET E3.0.
2	TELEPHONE TERMINAL BOARD. 2'X4'X3/4" FIRE RATED PLYWOOD. VERIFY EXACT LOCATION. COORDINATE EXACT REQUIREMENTS WITH THE PHONE CO. PROVIDE TWO SURFACE MOUNTED DUPLEX RECEPTACLES.
3	IN LOCATIONS IN WHICH PARTY CITY IS RESPONSIBLE FOR THE FIRE ALARM MONITORING, THE G.C. TO FURNISH & INSTALL A "SILENT KNIGHT 5808" (NO SUBSTITUTIONS) FIRE ALARM CONTROL PANEL (FACP).
4	PROVIDE (4) 1" CONDUITS WITH PULLSTRING ROUTED AT STRUCTURE AS SHOWN, (2) FOR TELEPHONE CABLE, AND (2) FOR DATA CABLE. USE LONG RADIUS SWEEPS FOR ALL CHANGES IN DIRECTION. INSTALL JUNCTION BOXES FOR EVERY 270° IN BENDS.
5	PROVIDE REAR DOOR BUZZER SYSTEM WITH (1) BUZZER AT STOCKROOM WALL AND (1) BUZZER AT CASHWRAP AREA. REFER TO DETAIL 3/E3.0.
6	WIRELESS ACCESS POINT. PROVIDE (1) DATA OUTLET AT EACH LOCATION. TENANT TO PULL CABLE AS REQUIRED TO LOCATIONS AS INDICATED AND/OR DESIRED. (8 MIN. REQ'D)
7	TENANT TO RUN SEPARATE CAT 5E DATA CABLE FROM MANAGER'S OFFICE TO EACH DATA RECEPTACLE LOCATION. LEAVE 10'-0" SLACK AND LABEL PULLED CABLES AT EACH END. PUNCHDOWNS BY TENANT. G.C. TO PROVIDE/INSTALL CONDUIT AND ELECTRICAL BOXES FOR DATA/PHONE JACKS AS INDICATED.
8	TENANT TO RUN SEPARATE CAT 5E PHONE CABLE FROM TELEPHONE TERMINAL BOARD TO EACH TELEPHONE RECEPTACLE LOCATION. LEAVE 10'-0" SLACK AND LABEL PULLED CABLES AT EACH END. PUNCHDOWNS BY TENANT. G.C. TO PROVIDE/INSTALL CONDUIT AND ELECTRICAL BOXES FOR DATA/PHONE JACKS AS INDICATED.
9	G.C. TO RUN (1) CONDUIT FOR POWER (1) FOR DATA, AND (1) FOR TELEPHONE DOWN WALL TO FEED LEFT SIDE (PLAN VIEW) OF CHECKOUT COUNTER. WIRING TO BE RUN THROUGH WALL AS REQUIRED TO EXIT WALL AT 14'-0" AFF, INTO BACKSIDE OF GONDOLA, THROUGH GONDOLA FIXTURES AND INTO CASHWRAP.
10	G.C. TO RUN (1) CONDUIT FOR POWER (1) FOR DATA AND (1) FOR TELEPHONE DOWN WALL TO FEED DESIGN STUDIO AND CHECKOUT COUNTER. CONDUIT TO EXIT WALL @ 1'-0" AFF.
11	LIGHTING AND EXHAUST FAN IN RESTROOM TO BE CONTROLLED VIA SAME OCCUPANCY SENSOR.
12	EXHAUST FAN IN JAN. CLOSET TO RUN CONTINUOUSLY.
13	PROVIDE POWER WIRING AND MEANS OF DISCONNECT FOR STOREFRONT SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SIGN VENDOR PRIOR TO INSTALLATION. J-BOX MUST BE WITHIN 5FT OF SIGN LOCATION.
14	PROVIDE A MINIMUM ONE (1) INCH UNDERGROUND CONDUIT WITH PULL STRING FOR FIRE ALARM CABLING CONNECTIONS TO THE EXTERIOR BACKFLOW PREVENTER.

BTM. OF DECK - ±18'-2 3/4"

BTM. OF BEAM - ±17'-2 1/4"

BTM. OF DUCT - ±13'-0"

BTM. OF CASHWRAP LIGHTING -16'-0"

BTM. OF SALES LIGHTING - 12'-6"

BTM. OF STOCKROOM LIGHTING - 12'-6"

PERIMETER SHELVING - 12'-0"

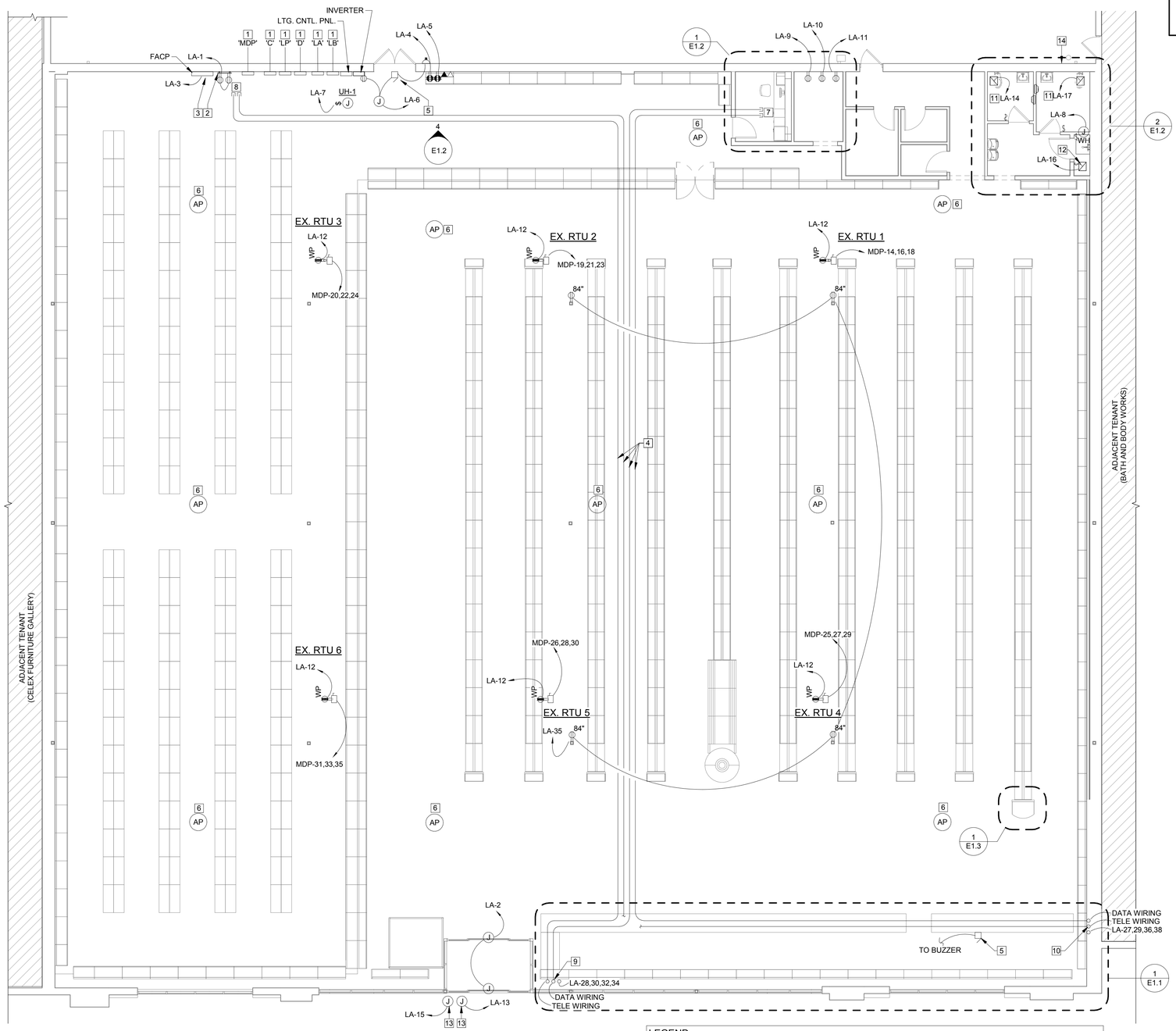
INTERIOR SHELVING 10'-6"

NOTE:
CONTRACTOR TO VERIFY EXISTING CONDITIONS & MOUNT SPRINKLERS, CONDUIT, AND DUCTWORK AS HIGH AS POSSIBLE WITHIN THE EXISTING CEILING SPACE. NOTIFY ARCHITECT/ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO FABRICATION/INSTALLATION.

FINISH FLOOR

NOTE:
PAINT ALL ELECTRICAL COVER PLATES TO MATCH WALL PAINT COLOR OF ADJACENT WALLS.

ALL CAT5E CABLES TO BE "WHITE"



1 E1.0 POWER PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE		BUZZER
	QUAD RECEPTACLE		PUSHBUTTON (WEATHERPROOF)
	DUPLEX RECEPTACLE (W/ GFIC)	$	SWITCH
	DUPLEX RECEPTACLE (W/ ISOLATED GROUND)		JUNCTION BOX
	QUAD RECEPTACLE (W/ ISOLATED GROUND)		DISCONNECT SWITCH
	DATA RECEPTACLE		FUSED DISCONNECT SWITCH
	TELEPHONE RECEPTACLE		EXHAUST FAN
CM	CEILING MOUNTED (MOUNTED TO STRUCTURE WHERE NO CEILING)		CIRCUIT HOMERUN
OC	OCCUPANCY SENSOR	AP	WIRELESS ACCESS POINT
OS	OVERRIDE SWITCH	OC	CEILING MOUNTED OCCUPANCY SENSOR
WP	WEATHERPROOF	PC	PHOTOCELL

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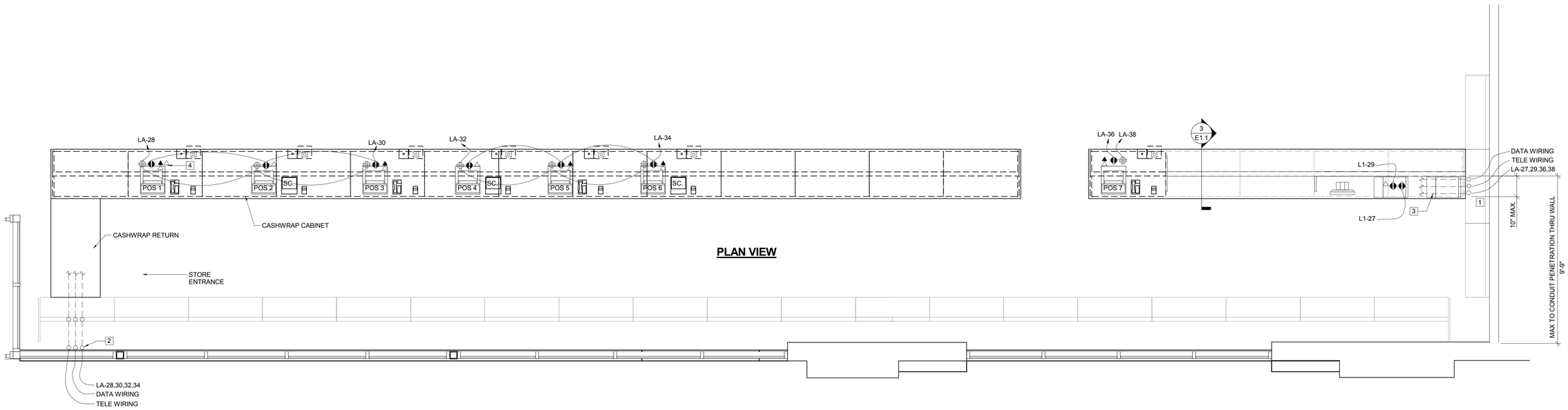
Architects Engineers Surveyors

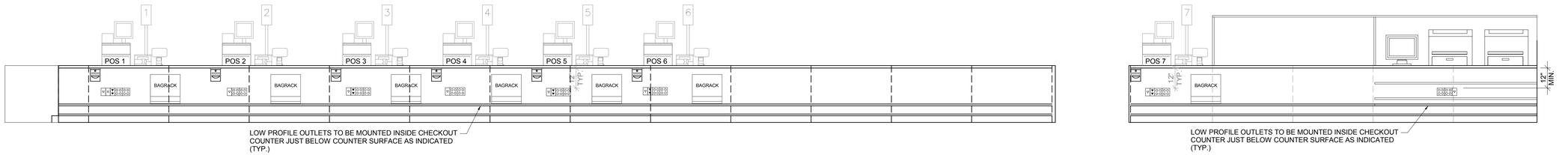
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'D BY PL

SHEET TITLE
POWER PLAN

SHEET NO.
E1.0



PLAN VIEW



1 E1.1 ENLARGED CHECKOUT POWER PLAN/ELEVATION

SCALE: 3/8" = 1'-0"

KEYED NOTES

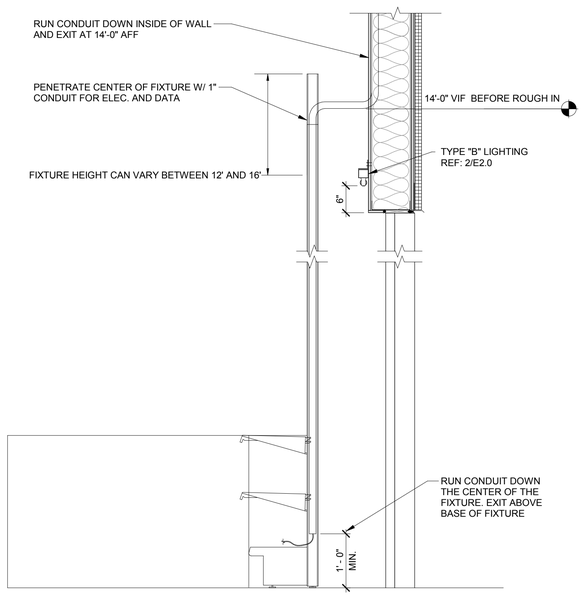
1.	G.C. TO RUN (1) CONDUIT FOR POWER (1) FOR DATA AND (1) FOR TELEPHONE DOWN WALL TO FEED CHECKOUT COUNTER. CONDUIT TO EXIT WALL @ 1'-0" AFF. REF: 3/E1.1.
2.	G.C. TO RUN (1) CONDUIT FOR POWER (1) FOR DATA AND (1) FOR TELEPHONE DOWN WALL TO FEED CHECKOUT COUNTER. WIRING TO BE RUN THROUGH WALL AS REQUIRED TO EXIT WALL AT 14'-0" AFF, INTO BACKSIDE OF GONDOLA, THROUGH GONDOLA FIXTURES AND INTO CASHWRAP. REF: 2/E1.1.
3.	G.C. TO ROUTE CONDUIT CONCEALED THRU CASHWRAP CABINETS TO FINAL LOCATION. DRILL/MODIFY CASHWRAP CABINETS AS REQUIRED TO PROVIDE A CONCEALED ROUTING OF UTILITIES.
4.	DATA OUTLET FOR "3G CREDIT BACKUP" SYSTEM TO BE INSTALLED AT FIRST REGISTER FOR CAT5E CABLE PULLED FROM MANAGER'S OFFICE.

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE		BUZZER
	QUAD RECEPTACLE		PUSHBUTTON (WEATHERPROOF)
	DUPLEX RECEPTACLE (W/ GFIC)	$	SWITCH
	DUPLEX RECEPTACLE (W/ ISOLATED GROUND)		JUNCTION BOX
	QUAD RECEPTACLE (W/ ISOLATED GROUND)		DISCONNECT SWITCH
▽	DATA RECEPTACLE		FUSED DISCONNECT SWITCH
▼	TELEPHONE RECEPTACLE		EXHAUST FAN
CM	CEILING MOUNTED (MOUNTED TO STRUCTURE WHERE NO CEILING)		CIRCUIT HOMERUN
OC	OCCUPANCY SENSOR	AP	WIRELESS ACCESS POINT
OS	OVERRIDE SWITCH	OC	CEILING MOUNTED OCCUPANCY SENSOR
WP	WEATHERPROOF	PC	PHOTOCELL

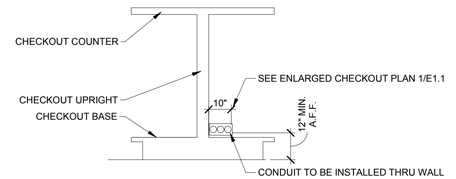
NOTE:
PAINT ALL ELECTRICAL COVER PLATES. TO MATCH WALL PAINT COLOR OF ADJACENT WALLS.

ALL CAT5E CABLES TO BE "WHITE"



2 E1.1 CHECKOUT WIRING DETAIL

SCALE: 3/4" = 1'-0"



3 E1.1 CHECKOUT SECTION

SCALE: 3/8" = 1'-0"

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ENLARGED DETAILS

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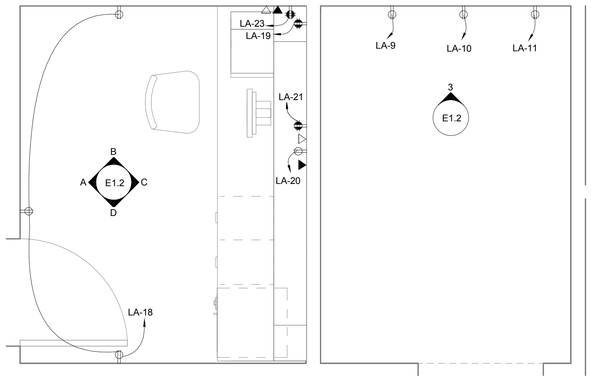
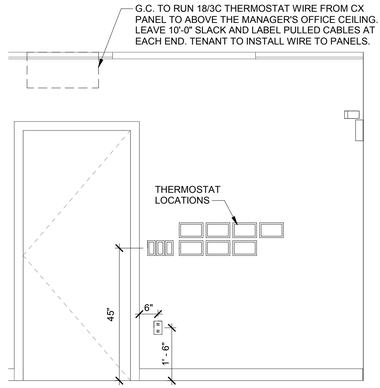
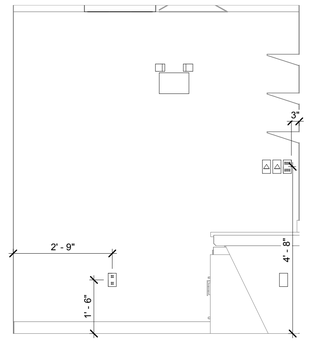


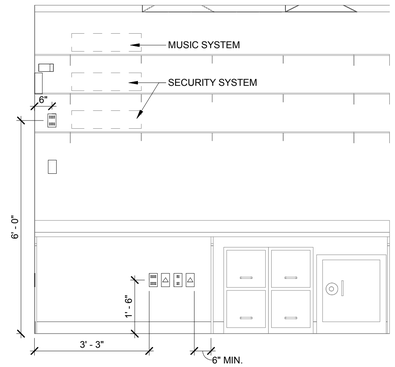
1 E1.2 OFFICE/BREAKROOM ENLARGED PLAN
SCALE: 1/2" = 1'-0"



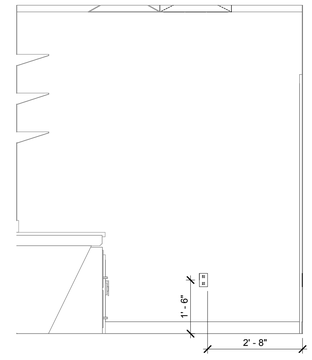
A E1.2 OFFICE ELEVATION A
SCALE: 1/2" = 1'-0"



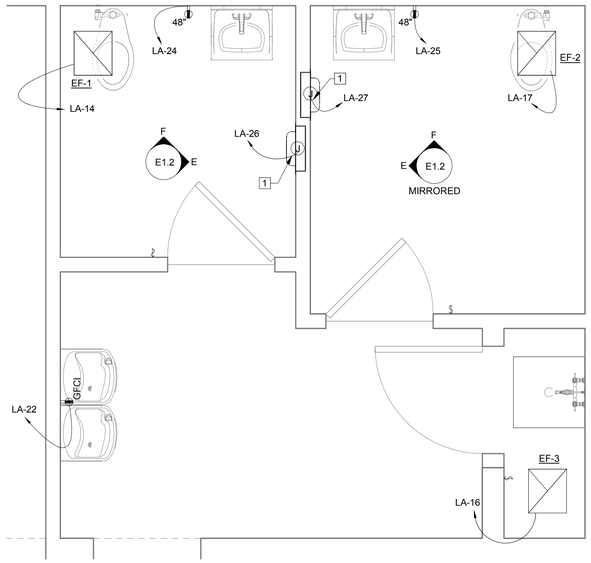
B E1.2 OFFICE ELEVATION B
SCALE: 1/2" = 1'-0"



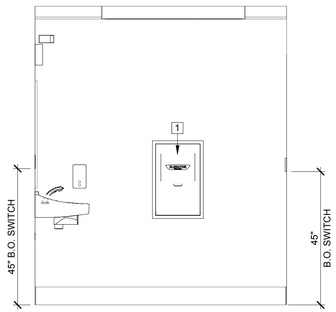
C E1.2 OFFICE ELEVATION C
SCALE: 1/2" = 1'-0"



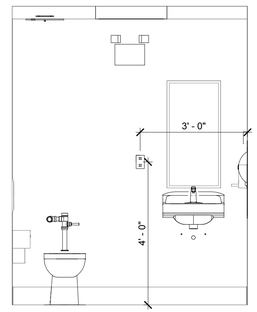
D E1.2 OFFICE ELEVATION D
SCALE: 1/2" = 1'-0"



2 E1.2 TOILET ROOM ENLARGED PLAN
SCALE: 1/2" = 1'-0"



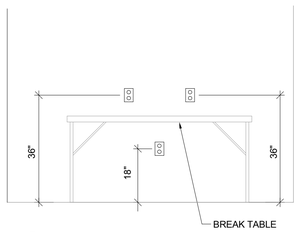
E E1.2 RESTROOM ELEVATION E
SCALE: 1/2" = 1'-0"



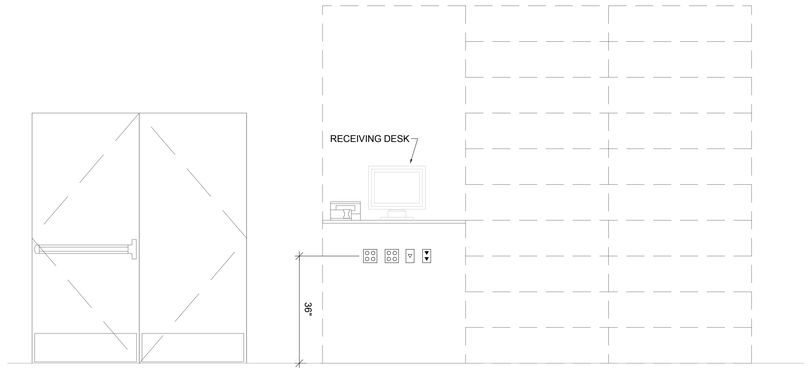
F E1.2 RESTROOM ELEVATION F
SCALE: 1/2" = 1'-0"

KEYED NOTES

1	PROVIDE POWER WIRING FOR HAND DRYER. COORDINATE ROUGH-IN LOCATION WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER'S REQUIREMENTS.



3 E1.2 BREAK TABLE ELEVATION
SCALE: 1/2" = 1'-0"



4 E1.2 RECEIVING DESK ELEVATION
SCALE: 1/2" = 1'-0"

Party City
25 Green Pond Road
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09/05/17

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REVISIONS

#	DATE	DESCRIPTION	BY

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3850 GRAND AVE. CHINO, CA 91710
STORE #427

LDG
Larson Design Group
1000 Commerce Park Dr
Suite 201
Williamsport, PA 17701
PHONE 570.323.6603
FAX 570.323.9902
www.larsondesigngroup.com
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PROJECT NO. 8099-196
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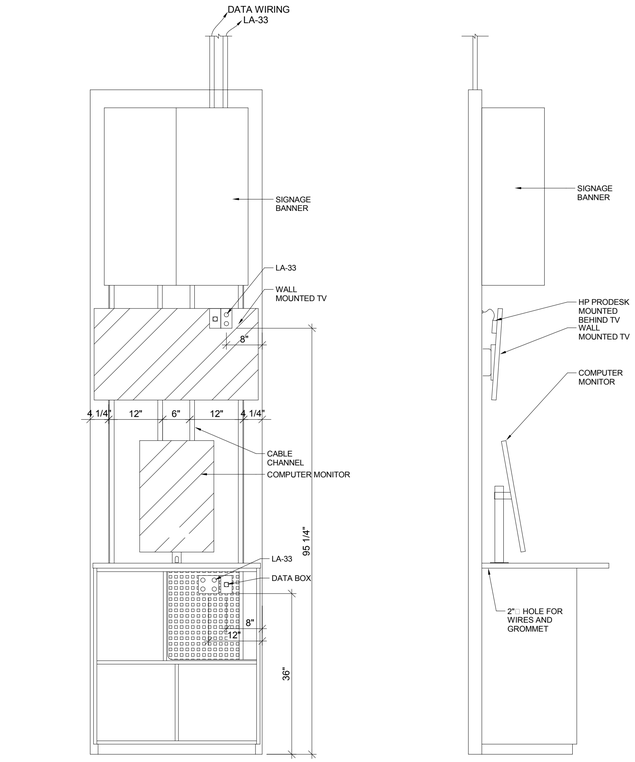
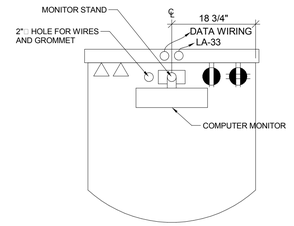
SHEET TITLE
ENLARGED DETAILS

SHEET NO.
E1.2





1 E1.3 ELEC. INSRIBE KIOSK DETAILS
SCALE: 3/4" = 1'-0"

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APPV'D BY PL

SHEET TITLE
INSRIBE KIOSK DETAILS

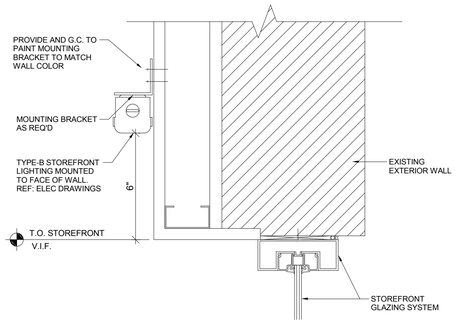
SHEET NO.
E1.3

HIGH-BAY LED LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL #	DESCRIPTION	VOLTAGE	WATTS	LAMPS (NOTE 6)	NOTES
A	LITHONIA	TZL1N L96 6000LM 40K FST	8FT STRIPLIGHT WITH LENS 6000LM 80CRI 4000K	120/277	65	LED(4000K)	1
AE	LITHONIA	TZL1N L96 6000LM 40K FST	8FT STRIPLIGHT WITH LENS 6000LM 80CRI 4000K	120/277	65	LED(4000K)	1,2
B	LITHONIA	ZL1N-L48-3000LM-MVOLT-40K-L/LENS	4FT LED STRIP	120/277	32	LED(4000K)	5
B2	LITHONIA	ZL1N-L24-3000LM-MVOLT-40K-L/LENS	2FT LED STRIP	120/277	32	LED(4000K)	5
C	LITHONIA	2GTL4LP840	2X4 LED TROFFER	120/277	39	LED(4000K)	
CE	LITHONIA	2GTL4LP840	2X4 LED TROFFER	120/277	39	LED(4000K)	2
D	LITHONIA	IBG-15000LM-HEF-AFL-GND-MVOLT-OZ10-40K-80CRI-DWH	16" X 26" LED HIGH BAY	120/277	79	LED(4000K)	1
DE	LITHONIA	IBG-15000LM-HEF-AFL-GND-MVOLT-OZ10-40K-80CRI-DWH	16" X 26" LED HIGH BAY	120/277	79	LED(4000K)	1,2
EM1	LITHONIA	EU2 LED M12	EMERGENCY LIGHT (W/ BATTERY BACKUP)	120/277	1.8	-INCLUDED-	2,3
EM2	LITHONIA	ELA LED WP M12	REMOTE EMERGENCY HEADS SINGLE, WEATHER-PROOF	9.6	1	-INCLUDED-	4
X1	LITHONIA	EXR LED M6	RED EXIT SIGN (W/ BATTERY BACKUP)	120/277	2	-INCLUDED-	2
X2	LITHONIA	ECR LED HO M6	COMB. RED EXIT SIGN/EMERG. LIGHT (W/ REMOTE CAPABILITY)	120/277	3.8	-INCLUDED-	2,3
	APPROVED LIGHTING FIXTURES: WIEDENBACH - BROWN CONTACT: LISA PETRO TEL: 781.619.6074 EMAIL QUOTE REQUESTS TO: PCSUPPORT@WBLIGHT.COM MINIMUM LEAD TIME: 5-6 WEEKS						

NOTES

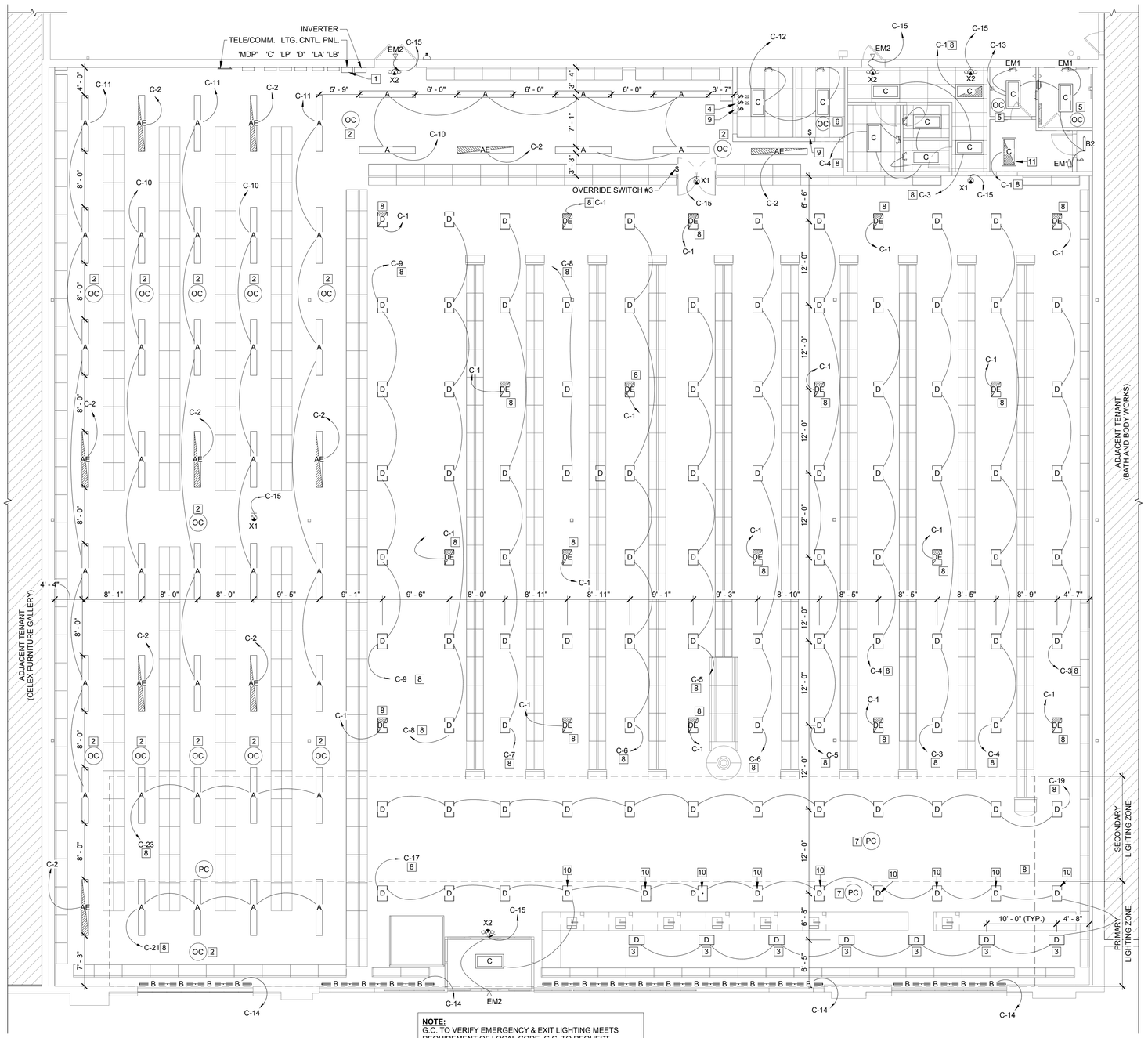
1. WIRE HANG FIXTURES LITHONIA #AC120
2. CONNECT TO LOCAL AREA LIGHTING CIRCUIT VIA UNSWITCHED CONDUCTOR.
3. BATTERY RATED FOR USE WITH REMOTE EMERGENCY HEAD (EM2)
4. SHALL BE POWERED VIA EMERGENCY PACK OF FIXTURE 'X2'
5. MOUNT FIXTURES TO WALL 6" ABOVE TOP OF GLAZING SYSTEM. NO 0-10V CABLES REQUIRED TO CX PANEL-NO DIM REQ'D



2 / E2.0 TYPE-B LIGHTING DETAIL
SCALE: 3" = 1'-0"

KEYED NOTES [X]

1	PROVIDE HUBBEL CX LIGHTING CONTROL PANEL WITH 30FT OF THE 18/3C THERMOSTAT WIRE COILED UP AT THE TOP FOR TIE-IN TO ALARM PANEL. REFERENCE NORMALLY CLOSE ALARM INPUT DETAIL FOR TERMINATION. WIRE COLOR CODING MUST MATCH "RED/WHITE/GREEN". REF: SHEET E2.1.
2	PROVIDE MOTION SENSOR FOR LIGHTING CONTROLS - APPLICABLE FOR STOCKROOM. PART NUMBER: WSP-SM-UNV/WSPLENS360LMWH. REF: SHEET E2.1 MANUFACTURED BY HBA. MOUNT AT SAME HEIGHT AS FIXTURE.
3	LIGHTING ABOVE CASHWRAP TO BE INSTALLED UP TO 16'-6" MAX. COORDINATE FINAL INSTALLATION HEIGHT W/ TENANT PM. REF: KEY HEIGHTS DIAGRAM.
4	PROVIDE (1) SALES AREA SWITCH IN MANAGER'S OFFICE AND (1) STOCKROOM SWITCH . REF: SHEET 2.1 FOR INFORMATION REGARDING BUTTON SETTINGS.
5	PROVIDE (1) CEILING MOUNTED OCCUPANCY SENSOR OMNI DT BP 500 TO CONTROL THE LIGHTING AND EXHAUST FAN. SENSOR SHOULD TIME OUT AT 15 MINUTES.
6	PROVIDE (1) CEILING MOUNTED OCCUPANCY SENSOR OMNI DT BP 500 TO CONTROL THE LIGHTING AND EXHAUST FAN. PROVIDE (1) DIMMING SWITCH BY DOOR TO CONTROL THE LIGHT FIXTURES. SENSOR SHOULD TIME OUT AT 15 MINUTES.
7	PROVIDE DAYLIGHT SENSOR FOR LIGHTING CONTROL SENSOR SWITCH HUBBELL # LUXSTATLS. MOUNT AT A HEIGHT OF CASHWRAP LIGHTING IN CASHWRAP AREA AS SHOWN/REQ'D. REF: SHEET E2.1
8	PROVIDE CABLE FROM LIGHTING TO CX PANEL USING 18/2 PURPLE/GRAY 0-10V WIRING PER CIRCUIT. MC LUMINARY CABLE IS ACCEPTABLE WHERE ALLOWED BY CODE.
9	PROVIDE (1) LIGHTHAWK2 WALL SWITCH OCCUPANCY SENSOR HUBBELL# LHMTS1-G-WH.
10	LIGHTS IN FRONT OF CHECKOUT TO BE INSTALLED UP TO 16'-6" MAX. TO MATCH CHECKOUT LIGHTING. COORDINATE FINAL INSTALLATION HEIGHT WITH TENANT PM.
11	G.C. TO PROVIDE FRAME AND HARDWARE FOR MOUNTING 2X4 TROFFER LIGHT INTO GWB CEILING AS INDICATED.



1 / E2.0 LIGHTING PLAN
SCALE: 1/8" = 1'-0"

- BTM. OF DECK - ±18'-2 3/4" ___
- BTM. OF BEAM - ±17'-2 1/4" ___
- BTM. OF DUCT - ±13'-0" ___
- BTM. OF CASHWRAP LIGHTING -16'-0"
- BTM. OF SALES LIGHTING - 12'-6"
- BTM. OF STOCKROOM LIGHTING - 12'-6"
- PERIMETER SHELVING - 12'-0" ___
- INTERIOR SHELVING 10'-6" ___

NOTE:
CONTRACTOR TO VERIFY EXISTING CONDITIONS & MOUNT SPRINKLERS, CONDUIT, AND DUCTWORK AS HIGH AS POSSIBLE WITHIN THE EXISTING CEILING SPACE. NOTIFY ARCHITECT/ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO FABRICATION/INSTALLATION.

- FINISH FLOOR ____ ___ ___ ___

NOTE:
G.C. TO VERIFY EMERGENCY & EXIT LIGHTING MEETS REQUIREMENT OF LOCAL CODE. G.C. TO REQUEST COURTESY WALKTHROUGH FROM FIRE MARSHAL.

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	8 FT STRIPLIGHT		REMOTE EMERGENCY HEAD
	8 FT EMERGENCY STRIPLIGHT		EXIT SIGN W/ EMERGENCY LIGHT
	HIGH BAY FIXTURE		EMERGENCY LIGHT
	HIGH BAY EMERGENCY FIXTURE	$	SWITCH
	2X4 TROFFER LIGHT	J	JUNCTION BOX
		OC	OCCUPANCY SENSOR
		OS	OVERRIDE SWITCH
	2X4 TROFFER EMERGENCY LIGHT		EXHAUST FAN
			CIRCUIT HOMERUN
	TYPE "B" STRIP LIGHTING	OC	CEILING MOUNTED OCCUPANCY SENSOR
	EXIT SIGN	PC	PHOTOCELL

PLAN NORTH

Party City
25 Green Pond Road
Rockaway, NJ 07866

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PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'D BY PL

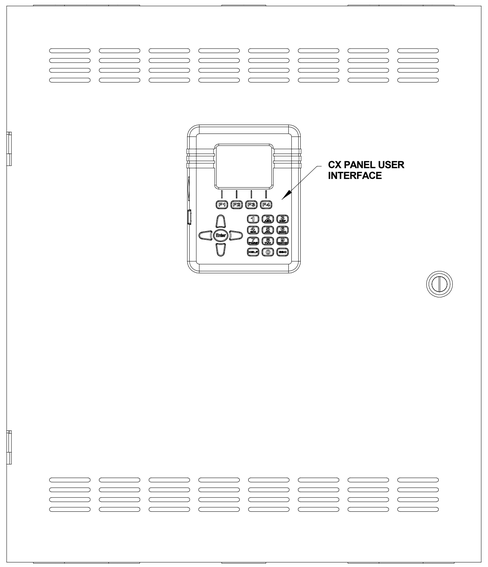
SHEET TITLE
LIGHTING PLAN

SHEET NO.
E2.0

CONTRACTOR NOTES:

CONTRACTOR SHALL NOT POWER-UP THE HUBBELL "CX" LIGHTING CONTROL PANEL TO PREVENT INTERNAL 24V DAMAGE.

WB ELECTRICAL SERVICES WILL PROVIDE ON-SITE COMMISSIONING. CONTRACTOR SHALL NOT TERMINATE LINE-VOLTAGE CIRCUITS ON THE LIGHTING CONTROL PANEL RELAYS, THIS WILL COMPLETED BY THE WB COMMISSIONING AGENT. EXTEND, CUT, STRIP WIRE, AND WIRENUT EACH CIRCUIT AT EACH RELAY PER E2.1. CONTRACTOR MUST TERMINATE ALL LOW VOLTAGE WIRES INCLUDING 0-10V, WALL SWITCH STATIONS, DAYLIGHT SENSORS, AND OCCUPANCY SENSORS. ALL LINE-VOLTAGE AND LOW-VOLTAGE CABLES WILL BE WIRE MARKED WITH PANEL CIRCUIT OR ASSOCIATED DEVICE. CONTRACTOR SHALL CALL OR EMAIL WB ELECTRICAL SERVICES TO REQUEST COMMISSIONING SERVICE FIVE DAYS PRIOR TO ON SITE REQUIREMENT.
EMAIL: PCSUPPORT@WBLIGHT.COM
CALL: LISA 781-619-6074 / RON DOYLE 714-952-1538

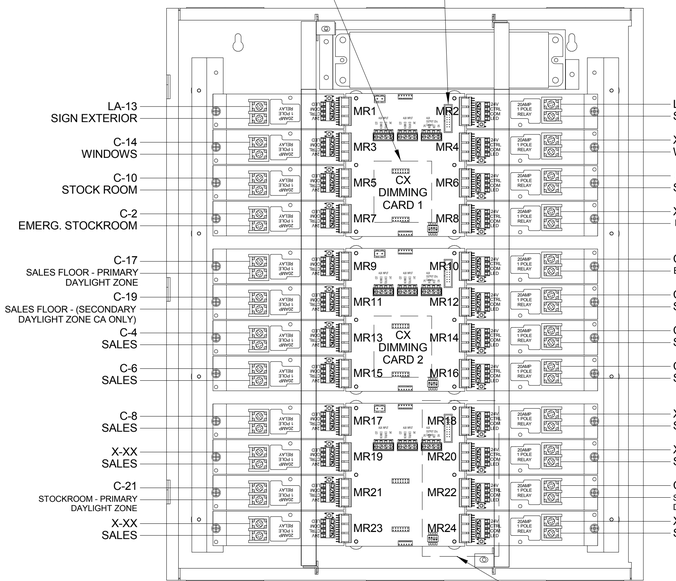


CX24 Door

THE CX RIBBON CABLE THAT INTERCONNECTS THE CONTROLLER AND THE MOTHERBOARD IS TO BE PLACED IN THE MOTHERBOARD #1 LOCATION. POWER MUST BE *OFF* TO THE CX PANEL IF REMOVING OR REATTACHING THE RIBBON CABLE.

INSTALL CX DIMMING CARD ON THE NUMBER 1 AND NUMBER 2 MOTHERBOARDS OF THE CX24 RELAY PANEL, (THE TOP MOST MOTHERBOARDS). SEE DIMMING CARD DETAIL

CX24



CX24 Circuiting Detail

NOTE TO INSTALLER:
Please read this drawing completely prior to installation. If the Panel/Circuits/Inputs are not wired exactly as shown, then the programming will not operate the panel as specified. This may incur charges and require additional work to rectify.

RELAY PANEL SCHEDULE

RELAY	LOCATION	CONTROL	CIRCUIT
1	SIGN/EXTERIOR	SCHEDULE/SWITCH	LA-13
2	SIGN/EXTERIOR	SCHEDULE/SWITCH	LA-15
3	WINDOWS	SCHEDULE/SWITCH	C-14
4	WINDOWS	SCHEDULE/SWITCH	X-XX
5	STOCK ROOM	OCCUPANCY SENSOR	C-10
6	STOCK ROOM (SPARE)	OCCUPANCY SENSOR	C-11
7	EMERGENCY STOCKROOM	STAND ALONE OCCUPANCY SENSORS	C-2
8	EMERGENCY SALES FLOOR	SCHEDULE/SWITCH	X-XX
9	SALES FLOOR - PRIMARY DAYLIGHT ZONE	SCHEDULE/PHOTO SENSOR	C-17
10	EMERGENCY SALES FLOOR	SCHEDULE/SWITCH	C-1
11	SALES FLOOR - SECONDARY DAYLIGHT ZONE	SCHEDULE/PHOTO SENSOR	C-19
12	SALES FLOOR	SCHEDULE/SWITCH	C-3
13	SALES FLOOR	SCHEDULE/SWITCH	C-4
14	SALES FLOOR	SCHEDULE/SWITCH	C-5
15	SALES FLOOR	SCHEDULE/SWITCH	C-6
16	SALES FLOOR	SCHEDULE/SWITCH	C-7
17	SALES FLOOR	SCHEDULE/SWITCH	C-8
18	SALES FLOOR	SCHEDULE/SWITCH	X-XX
19	SALES FLOOR	SCHEDULE/SWITCH	X-XX
20	SALES FLOOR	SCHEDULE/SWITCH	X-XX
21	STOCKROOM - PRIMARY DAYLIGHT	SCHEDULE/SWITCH	C-21
22	STOCKROOM - SECONDARY DAYLIGHT	SCHEDULE/SWITCH	C-23
23	SALES FLOOR	SCHEDULE/SWITCH	X-XX
24	SALES FLOOR	SCHEDULE/SWITCH	X-XX

NOTES:

1. Caution: ALWAYS remove supply power to the Panel control Transformer prior to making any connections between dimming boards and panel processor board. Failure to do so may result in personnel injury, damage to the panel, and void its warranty.
2. Contractor shall identify all line and low voltage cable in the panel with permanent wire markers.

CX24 Relay Schedule

Sequence of Operations:

Sign/Exterior Lighting, Nov.-Sept.:
Mon-Sun: ON-30 Minutes Before Sunset / OFF Midnight
Sign/Exterior Lighting, October:
Mon-Sun: ON-30 Minutes Before Sunset / OFF 2AM

Storefront Window Lighting, Nov.-Sept.:
Mon-Sun: ON-30 Minutes Before Sunset / OFF-Midnight
Storefront Window Lighting, October:
Mon-Sun: ON-30 Minutes Before Sunset / OFF-2AM

Sales Area, Nov.-Sept. Open Times are 15 minutes past the time shown. 15 minutes prior to Open time the Fixtures are to go to 100% except in the Daylight Areas:

M-W 9:15AM to 8:30PM
TH-F 9:15AM to 9PM
SAT 8:15AM to 8:30PM
SUN 9:45AM to 6PM

Sales Area, October. Open Time for fixtures to go to 100%, except in the Daylight Areas and Closing time for fixtures to go to 30% will be scheduled as:

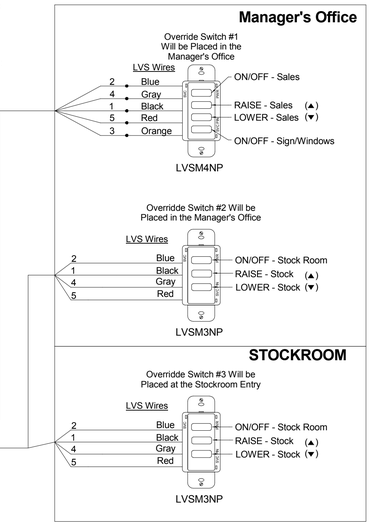
ALL DAYS 7:00AM to 1:00AM

Morning Daily Alarm Sales Area, Open:
When activated at the beginning of the Business Day the fixtures will turn ON and maintain 30% output until the ON Schedule runs, turning the fixtures to Operational Levels.

Evening Daily Alarm Sales Area, Close:
The Lights will dim to 30% after 30 minutes past closing time, then Off based on the Alarm Panel input.

Stock Room:
Controlled by Occupancy Sensors w/override switch controlled via the CX Panel Programming. The stockroom is in vacancy controlled.

For any Questions Contact Hubbell Control Solutions, (800)-888-8006 Option #2



APPROVED LIGHTING CONTROLS

WIEDENBACH - BROWN
CONTACT: LISA PETRO
TEL: 781.619.6074

EMAIL QUOTE REQUESTS TO:
PCSUPPORT@WBLIGHT.COM

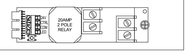
MINIMUM LEAD TIME: 3-4 WEEKS ARO
FIELD PROGRAMMING AND FINAL COMMISSIONING REQUIRED

NOTE:

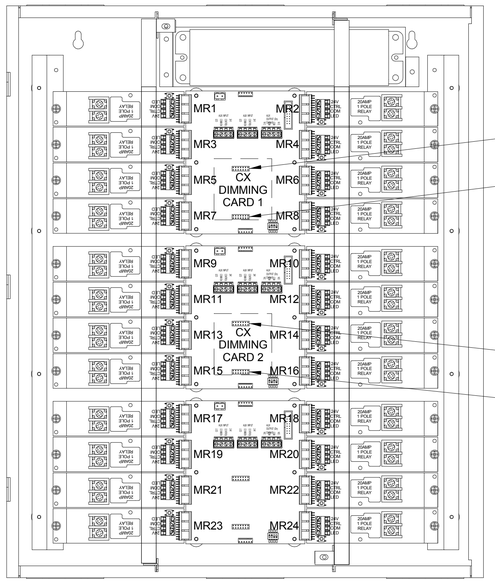
DIFFERENT CX PANEL DESIGNS ARE AVAILABLE FOR AREAS OF THE COUNTRY WITH VARYING ENERGY CODE REQUIREMENTS.

PLEASE CONTACT:
RON DOYLE
WEIDENBACH - BROWN
TEL: 714.982.1538
EMAIL: RON.DOYLE@WBLIGHT.COM

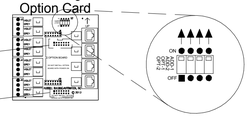
USE 2 POLE RELAYS WHEN DESIGNED CIRCUITS EXCEED THE NUMBER OF RELAYS AVAILABLE.



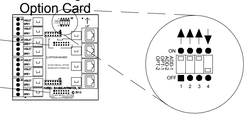
CX24



CX Dimming Option Card



CX Dimming Option Card

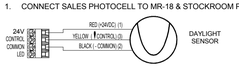


Orientate the Keyed Template located on the CX Dimming Option Board to the Keyed Template on the Mother Board of the CX Panel. For the Party City Job Project only 2 Dimming Cards are needed only use the 1 & 2 location.

Dimming Card Detail

INSTALLATION WIRING FOR A PHOTO SENSOR IN A CX PANEL, (TYPICAL).

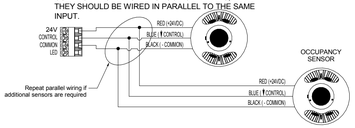
1. CONNECT SALES PHOTOCELL TO MR-18 & STOCKROOM PHOTOCELL TO MR-19



Daylight Sensor Input

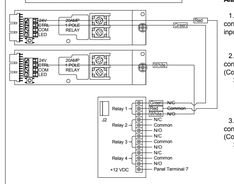
TYPICAL INSTALLATION WIRING FOR A "VACANCY MODE" OCCUPANCY SENSOR IN A CX PANEL FOR STOCK AREA, (TYPICAL).

1. CONNECT TO INPUT MR5 & MR6 INPUT
2. IF MULTIPLE OCCUPANCY SENSORS ARE CONTROLLING THE SAME GROUP OR RELAYS, THEN THEY SHOULD BE WIRED IN PARALLEL TO THE SAME INPUT.



Occupancy Sensor Input

Note:
Use #18AWG 3-conductor, solid thermostat wire with colors Green, Red, and White



Alarm System Input Connection Detail:

1. Using Relay 1 of the 860 Relay Module, connect the **Common** terminal to the **24V** input on CX Relay #22:
   1.1. This Input will serve to provide voltage .
2. Using Relay 1 of the 860 Relay Module, connect the **N/C** terminal to the **CTRL.** (Control), input on CX Relay #22.
   2.1. In the Closed position the alarm panel is deactivated and the Interior lights will turn on according to plan. The Open state will have no function.
3. Using Relay 1 of the 860 Relay Module, connect the **N/O** terminal to the **CTRL.** (Control), input on CX Relay #24
   3.1. In the Closed position the alarm panel is activated and all the Interior lights will turn off according to plan. The Open state will have no function.

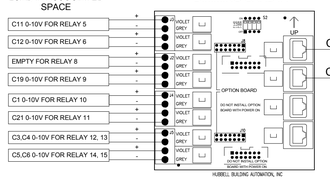
860 Relay Alarm Input

Input Detail

These Switches will function normally 24 hrs a day. Connect the LVS Switches to a CAT5 cable. (See Diagram Below)

DIMMING WIRES CONNECT TO LIGHTING LOAD IN ASSOCIATED SPACE

DIMMING CARD #1

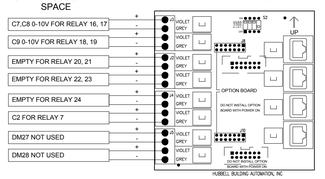


CAT5 Cable
CAT5 Cable

SWITCHES WITH THE SAME FUNCTION MUST BE WIRED IN PARALLEL.

DIMMING WIRES CONNECT TO LIGHTING LOAD IN ASSOCIATED SPACE

DIMMING CARD #2



Input Detail

RJ45 is T568B Standard

RJ45 Connects to CX Dimming Card

Number used to Define CAT5 Color	CX Designation	CAT5 Wire Colors	LVS Switch Functions	LVS Wire Colors
		Orange/White	+24V	Black
2	A	Orange	On/Off	Blue
3	B	Green/White	On/Off	Orange
4	C	Blue	Raise Dimmed Level	Gray
5	D	Blue/White	Lower Dimmed Level	Red
6		Green	Not Used	
7		Brown/White	Not Used	
8		Brown	Not Used	

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET

09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

STORE #427
CHINO SPECTRUM MARKETPLACE
3850 GRAND AVE. CHINO, CA 91710

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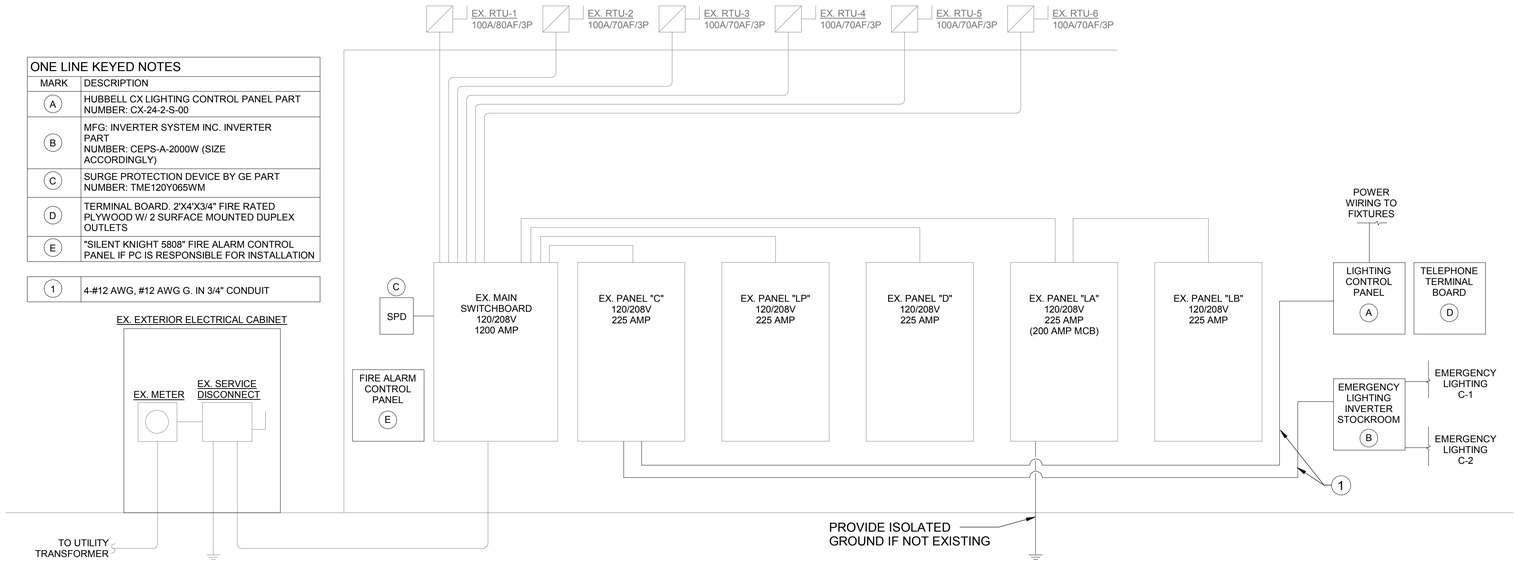
Architects Engineers Surveyors

PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'D BY PL

SHEET TITLE
LIGHTING CONTROL PANEL

SHEET NO.
E2.1

ONE LINE KEYED NOTES	
MARK	DESCRIPTION
A	HUBBELL CX LIGHTING CONTROL PANEL PART NUMBER: CX-24-2-S-00
B	MFG: INVERTER SYSTEM INC. INVERTER PART NUMBER: CEPS-A-2000W (SIZE ACCORDINGLY)
C	SURGE PROTECTION DEVICE BY GE PART NUMBER: TME120Y065WM
D	TERMINAL BOARD, 2'X4'X3/4" FIRE RATED PLYWOOD W/ 2 SURFACE MOUNTED DUPLEX OUTLETS
E	"SILENT KNIGHT 5808" FIRE ALARM CONTROL PANEL IF PC IS RESPONSIBLE FOR INSTALLATION
1	4-#12 AWG, #12 AWG G. IN 3/4" CONDUIT

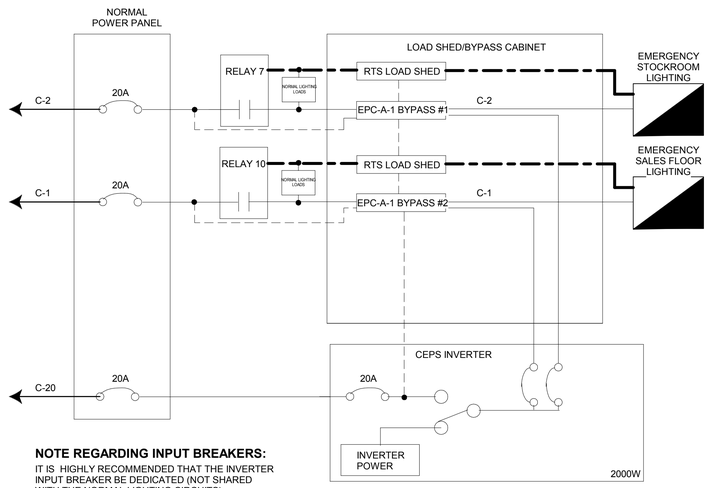


1 E3.0 120/208V ELECTRICAL RISER DIAGRAM
SCALE: NTS

NOTE:
ALL EQUIPMENT AND CIRCUIT BREAKERS SHALL BE INSTALLED AND LABELED ACCORDING TO THESE DRAWINGS. NO DEVIATION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT OR ENGINEER.

NOTE:
VERIFY CURRENT GROUNDING MEETS CURRENT CODE REQUIREMENTS. MODIFY AS REQ'D.

DETAILED SYSTEM OVERVIEW



NOTE REGARDING INPUT BREAKERS:
IT IS HIGHLY RECOMMENDED THAT THE INVERTER INPUT BREAKER BE DEDICATED (NOT SHARED WITH THE NORMAL LIGHTING CIRCUITS).

HOWEVER, THE NORMAL LIGHTING CIRCUITS MAY SHARE THE SAME BREAKER IF LOADING ALLOWS (ABOVE THERE IS 4 NORMAL LIGHTING CIRCUITS, BUT THE MIGHT ALL BE ON THE SAME BREAKER).

- 120V/277V SENSE LINES
- 120V/277V POWER LINES
- 0-10V (18/2 PURPLE/GRAY WIRING)

NOTE REGARDING OUTPUT BREAKERS:
INVERTER IS PROVIDED WITH A DEDICATED OUTPUT BREAKER FOR EACH ZONE (2 TOTAL).

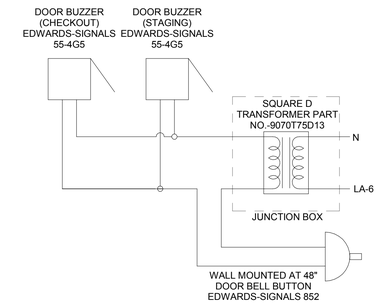
ALL LINES REPRESENT 2 CONDUCTORS/WIRE UNLESS OTHERWISE NOTED.

NOTE REGARDING INPUT BREAKERS:
INVERTER IS PROVIDED WITH ONE 20A INPUT BREAKER

A DEDICATED LOAD NEUTRAL IS REQ'D FOR EACH EMERGENCY LIGHTING ZONE

MODEL CEPS-A-2000-(120V)-(120V)-C2-CV10-OB-SB

2 E3.0 INVERTER DETAIL
SCALE: 1/4" = 1'-0"



3 E3.0 DOOR BUZZER DETAIL
SCALE: 1/8" = 1'-0"

Party City
25 Green Pond Road
Rockaway, NJ 07866

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PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'D BY PL
SHEET TITLE ELECTRICAL DETAILS & DIAGRAM
SHEET NO. E3.0

Panelboard: MDP

Location: STOCKROOM | **Volts:** 120/208 | **A.I.C. Rating:**
Supply From: SERVICE IN | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 1200 A
Enclosure: Type 1

RMK	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	RMK
	MDP-1				4.8 kVA			0.0 kVA						MDP-2	
	MDP-3	PANEL 'C'	200 A	3		4.5 kVA			0.0 kVA		3	200 A	PANEL 'LP'	MDP-4	
	MDP-5						5.3 kVA			0.0 kVA				MDP-6	
	MDP-7				0.0 kVA			10.4 kVA						MDP-8	
	MDP-9	PANEL 'D'	200 A	3		0.0 kVA			8.4 kVA		3	200 A	PANEL 'LA'	MDP-10	
	MDP-11						0.0 kVA			6.0 kVA				MDP-12	
	MDP-13				0.0 kVA			7.6 kVA						MDP-14	
	MDP-15	PANEL 'LB'	200 A	3		0.0 kVA			7.6 kVA		3	80 A	EX. RTU 1	MDP-16	
	MDP-17						0.0 kVA			7.6 kVA				MDP-18	
	MDP-19				7.3 kVA			7.3 kVA						MDP-20	
	MDP-21	EX. RTU 2	70 A	3		7.3 kVA			7.3 kVA		3	70 A	EX. RTU 3	MDP-22	
	MDP-23						7.3 kVA			7.3 kVA				MDP-24	
	MDP-25				7.3 kVA			7.3 kVA						MDP-26	
	MDP-27	EX. RTU 4	70 A	3		7.3 kVA			7.3 kVA		3	70 A	EX. RTU 5	MDP-28	
	MDP-29						7.3 kVA			7.3 kVA				MDP-30	
	MDP-31				7.3 kVA									MDP-32	
	MDP-33	EX. RTU 6	70 A	3		7.3 kVA								MDP-34	
	MDP-35						7.3 kVA							MDP-36	
	MDP-37													MDP-38	
	MDP-39													MDP-40	
	MDP-41													MDP-42	
			Total Load:		59244 VA		56903 VA		55415 VA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2100 VA	100.00%	2100 VA		
Lighting	12964 VA	100.00%	12964 VA	**Total Conn. Load:**	171562 VA
Power	144700 VA	100.00%	144700 VA	**Total Est. Demand:**	169186 VA
Receptacle	11880 VA	80.00%	9504 VA	**Total Conn. Current:**	476 A
				Total Est. Demand...	470 A

L = BREAKER WITH LOCK ON DEVICE
WP = A NEMA 3R RATED...
GFI = GROUND FAULT

* = DEDICATED CIRUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS:
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE

Panelboard: C

Location: STOCKROOM | **Volts:** 120/208 | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

RMK	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	RMK
	C-1	LTG - EMERG SALES	20 A	1	1.3 kVA			0.7 kVA			1	20 A	LTG - EMERG STOCKRM	C-2	
	C-3	LTG SALES	20 A	1		0.9 kVA			1.1 kVA		1	20 A	LTG SALES	C-4	
	C-5	LTG SALES	20 A	1			0.7 kVA			0.8 kVA	1	20 A	LTG SALES	C-6	
	C-7	LTG SALES	20 A	1	0.5 kVA			0.7 kVA			1	20 A	LTG SALES	C-8	
	C-9	LTG SALES	20 A	1		0.3 kVA			1.0 kVA		1	20 A	LTG STOCKRM	C-10	
	C-11	LTG STOCKRM	20 A	1			1.0 kVA			0.3 kVA	1	20 A	LTG - MGR/BRKRM	C-12	
	C-13	LTG - TOILET RM	20 A	1	0.3 kVA			0.6 kVA			1	20 A	LTG - STOREFRONT	C-14	
	C-15	LTG - EMERGENCY	20 A	1		0.4 kVA			0.6 kVA		1	20 A	LTG CNTRL PANEL	C-16	
	C-17	LTG - DAYLIGHT 1	20 A	1			1.3 kVA			1.0 kVA	1	20 A	EMERG. INVERTER	C-18	
	C-19	LTG - DAYLIGHT 2	20 A	1	0.8 kVA									C-20	
	C-21	LTG - STK DAYLIGHT 1	20 A	1		0.3 kVA								C-22	
	C-23	LTG - STK DAYLIGHT 2	20 A	1			0.3 kVA							C-24	
	C-25													C-26	
	C-27													C-28	
	C-29													C-30	
	C-31													C-32	
	C-33													C-34	
	C-35													C-36	
	C-37													C-38	
	C-39													C-40	
	C-41													C-42	
			Total Load:		4776 VA		4467 VA		5318 VA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	12964 VA	100.00%	12964 VA		
Power	1600 VA	100.00%	1600 VA	**Total Conn. Load:**	14555 VA
				Total Est. Demand:	14555 VA
				Total Conn. Current:	40 A
				Total Est. Demand...	40 A

L = BREAKER WITH LOCK ON DEVICE
WP = A NEMA 3R RATED...
GFI = GROUND FAULT

* = DEDICATED CIRUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS:
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE

Panelboard: LP

Location: STOCKROOM | **Volts:** 120/208 | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

RMK	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	RMK
	1	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	2	
	3	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	4	
	5	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	6	
	7	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	8	
	9	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	10	
	11	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	12	
	13	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	14	
	15	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	16	
	17	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	18	
	19	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	20	
	21	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	22	
	23	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	24	
	25	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	26	
	27	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	28	
	29	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	30	
	31								0.0 kVA		1	20 A	Spare	32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
			Total Load:		0 VA		0 VA		0 VA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand...	0 A

L = BREAKER WITH LOCK ON DEVICE
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GFI = GROUND FAULT

* = DEDICATED CIRUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS:
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE

Panelboard: D

Location: STOCKROOM | **Volts:** 120/208 | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

RMK	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	RMK
	1	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	2	
	3	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	4	
	5	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	6	
	7	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	8	
	9	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	10	
	11	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	12	
	13	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	14	
	15	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	16	
	17	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	18	
	19	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	20	
	21	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	22	
	23	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	24	
	25	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	26	
	27	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	28	
	29	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	30	
	31	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	32	
	33	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	34	
	35	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	36	
	37	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	38	
	39								0.0 kVA		1	20 A	Spare	40	
	41													42	
			Total Load:		0 VA		0 VA		0 VA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand...	0 A

L = BREAKER WITH LOCK ON DEVICE
WP = A NEMA 3R RATED...
GFI = GROUND FAULT

* = DEDICATED CIRUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS:
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE

Panelboard: LA

Location: STOCKROOM | **Volts:** 120/208 | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 225 A

RMK	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	RMK
	LA-1	REC - TELEPHONE	20 A	1	0.4 kVA			1.0 kVA			1	20 A	AUTO ENTRY DOORS	LA-2	
	LA-3	FACP PANEL	20 A	1		0.6 kVA			0.4 kVA		1	20 A	ISO - RECEIVER	LA-4	*
*	LA-5	ISO - RECEIVER	20 A	1			0.4 kVA			0.7 kVA	1	20 A	REC/STCKRM/BUZZER	LA-6	
	LA-7	UNIT HEATER UH-1	20 A	1	1.0 kVA			1.5 kVA			1	20 A	WATER HEATER	LA-8	
	LA-9	REC - BRKRM	20 A	1		0.2 kVA			0.2 kVA		1	20 A	REC - BRKRM	LA-10	
	LA-11	REC - BRKRM	20 A	1			0.2 kVA			1.1 kVA	1	20 A	RTU MAINT.	LA-12	
	LA-13	SIGN	20 A	1	1.5 kVA			1.0 kVA			1	20 A	EXHAUST FAN 1 (EF-1)	LA-14	
	LA-15	SIGN 2	20 A	1		1.5 kVA			1.0 kVA		1	20 A	EXHAUST FAN 3 (EF-3)	LA-16	
	LA-17	EXHAUST FAN 2 (EF-2)	20 A	1			0.1 kVA			0.5 kVA	1	20 A	REC - MGR OFFICE	LA-18	
*/L	LA-19	ISO - SECURITY	20 A	1	0.4 kVA			0.2 kVA			1	20 A	REC - MGR OFFICE	LA-20	
*	LA-21	ISO - MGR OFFICE	20 A	1		0.4 kVA			0.2 kVA		1	20 A	WATER COOLER	LA-22	
*	LA-23	ISO - MUSIC	20 A	1			0.4 kVA			0.2 kVA	1	20 A	REC - TOILET RM	LA-24	
	LA-25	REC - TOILET RM	20 A	1	0.2 kVA			1.5 kVA			1	20 A	HAND DRYER	LA-26	
	LA-27	HAND DRYER	20 A	1		1.5 kVA			1.1 kVA		1	20 A	REC - CASHWRAP	LA-28	
*	LA-29	ISO - PRINTER	20 A	1			0.4 kVA			1.1 kVA	1	20 A	ISO - CASHWRAP	LA-30	*
*	LA-31	ISO - PRINTER	20 A	1	0.4 kVA			1.1 kVA			1	20 A	REC - CASHWRAP	LA-32	
*	LA-33	ISO - INSCRIBE	20 A	1		0.4 kVA			1.1 kVA		1	20 A	ISO - CASHWRAP	LA-34	*
	LA-35	REC - GEN	20 A	1			0.7 kVA			0.4 kVA	1	20 A	ISO - CASHWRAP	LA-36	*
	LA-37							0.4 kVA			1	20 A	REC - CASHWRAP	LA-38	
	LA-39													LA-40	
	LA-41													LA-42	
			Total Load:		10380 VA		8380 VA		6020 VA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2100 VA	100.00%	2100 VA		
Power	10800 VA	100.00%	10800 VA	**Total Conn. Load:**	24780 VA
Receptacle	11880 VA	80.00%	9504 VA	**Total Est. Demand:**	22404 VA
				Total Conn. Current:	69 A
				Total Est. Demand...	62 A

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CIRCUIT BREAKER RATINGS:
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ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE

Panelboard: LB

Location: STOCKROOM | **Volts:** 120/208 | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

RMK	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	RMK
	1	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	2	
	3	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	4	
	5	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	6	
	7	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	8	
	9	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	10	
	11	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	12	
	13	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	14	
	15	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	16	
	17	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	18	
	19	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	20	
	21	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	22	
	23	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	24	
	25	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	26	
	27	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	28	
	29	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	30	
	31	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	32	
	33	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	34	
	35	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	36	
	37	Spare	20 A	1	0.0 kVA			0.0 kVA			1	20 A	Spare	38	
	39	Spare	20 A	1		0.0 kVA			0.0 kVA		1	20 A	Spare	40	
	41	Spare	20 A	1			0.0 kVA			0.0 kVA	1	20 A	Spare	42	
			Total Load:		0 VA		0 VA		0 VA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand...	0 A

L = BREAKER WITH LOCK ON DEVICE
WP = A NEMA 3R RATED...
GFI = GROUND FAULT

* = DEDICATED CIRUIT WITH AN ISOLATED GROUND
CIRCUIT BREAKER RATINGS:
ALL CIRCUIT BREAKERS ARE 1P/20A SWITCHING DUTY BOLT-ON, UNLESS NOTED OTHERWISE
ALL CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE

Party City
25 Green Pond Road
Rockaway, NJ 07866

BID SET
09/05/17

PERMIT ISSUE DATE 09/05/17

REVISIONS

#	DATE	DESCRIPTION	BY

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Architects Engineers Surveyors

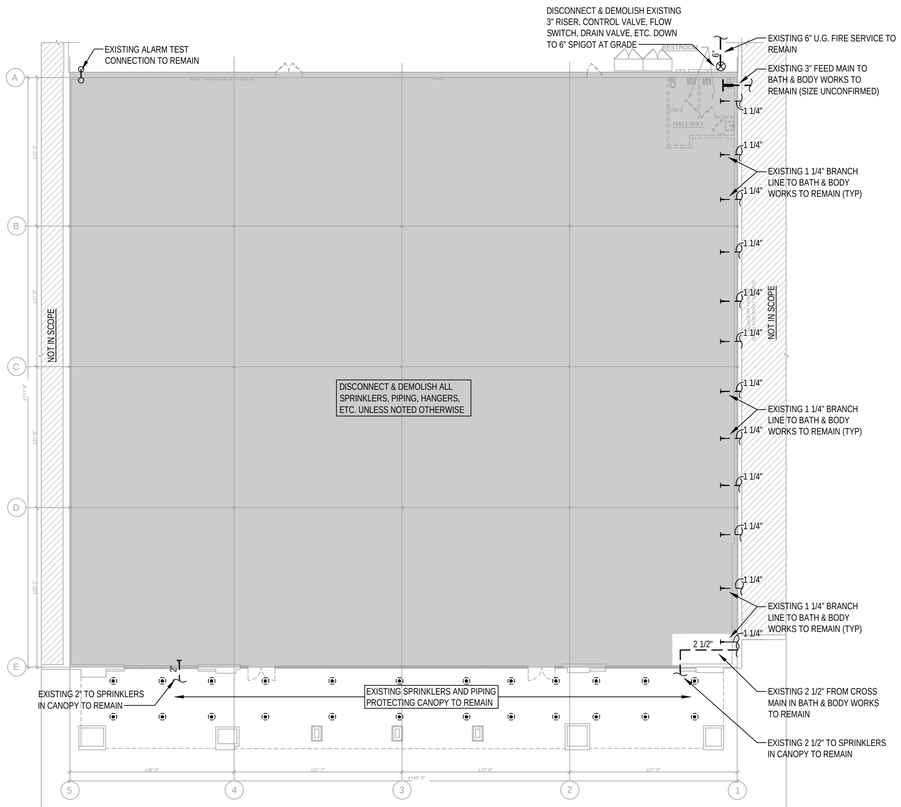
PROTO NO. 1703
PROJECT NO. 8099-196
DRAWN BY TCR
APP'D BY SNW

SHEET TITLE
PANEL SCHEDULES

SHEET NO.
E3.1

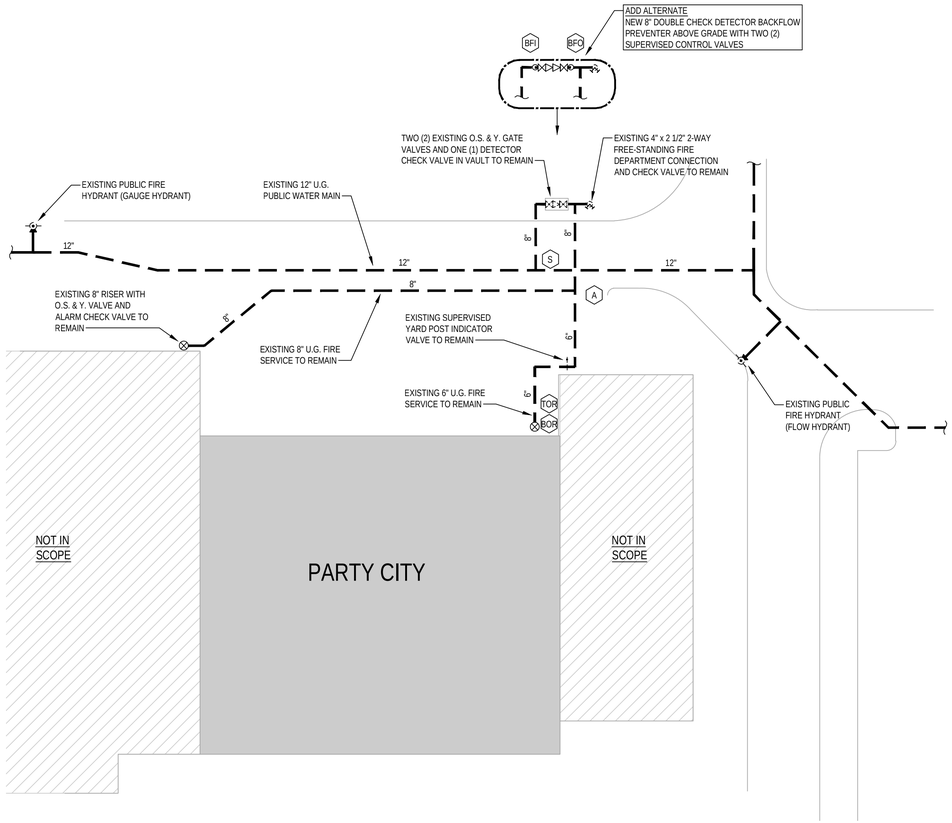
FIRE SPRINKLER DEMOLITION NOTES

1. FIRE SPRINKLER CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE:
   - SHUT DOWN AND DRAINING OF ALL EXISTING SYSTEMS.
2. DEMOLITION CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE:
   - DEMOLITION OF EXISTING SPRINKLERS, PIPING, HANGERS, ETC. WHERE INDICATED ON THE PLANS.
3. FIRE SPRINKLER AND/OR DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PIPE OR FITTINGS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THEIR WORK AT NO COST TO THE OWNER.



FIRE SPRINKLER DEMOLITION PLAN

SCALE: 1/16" = 1'-0" FIN. FLOOR ELEV. = 100'-0"



SITE PLAN

SCALE: 1" = 30'-0"

UNDERGROUND PIPING NOTE

ALL UNDERGROUND PIPING, VALVES, FITTINGS, DIMENSIONS, ETC. ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS, TYPES, AND SIZES OF ALL COMPONENTS IN ADDITION TO DETAILS OF CONSTRUCTION.

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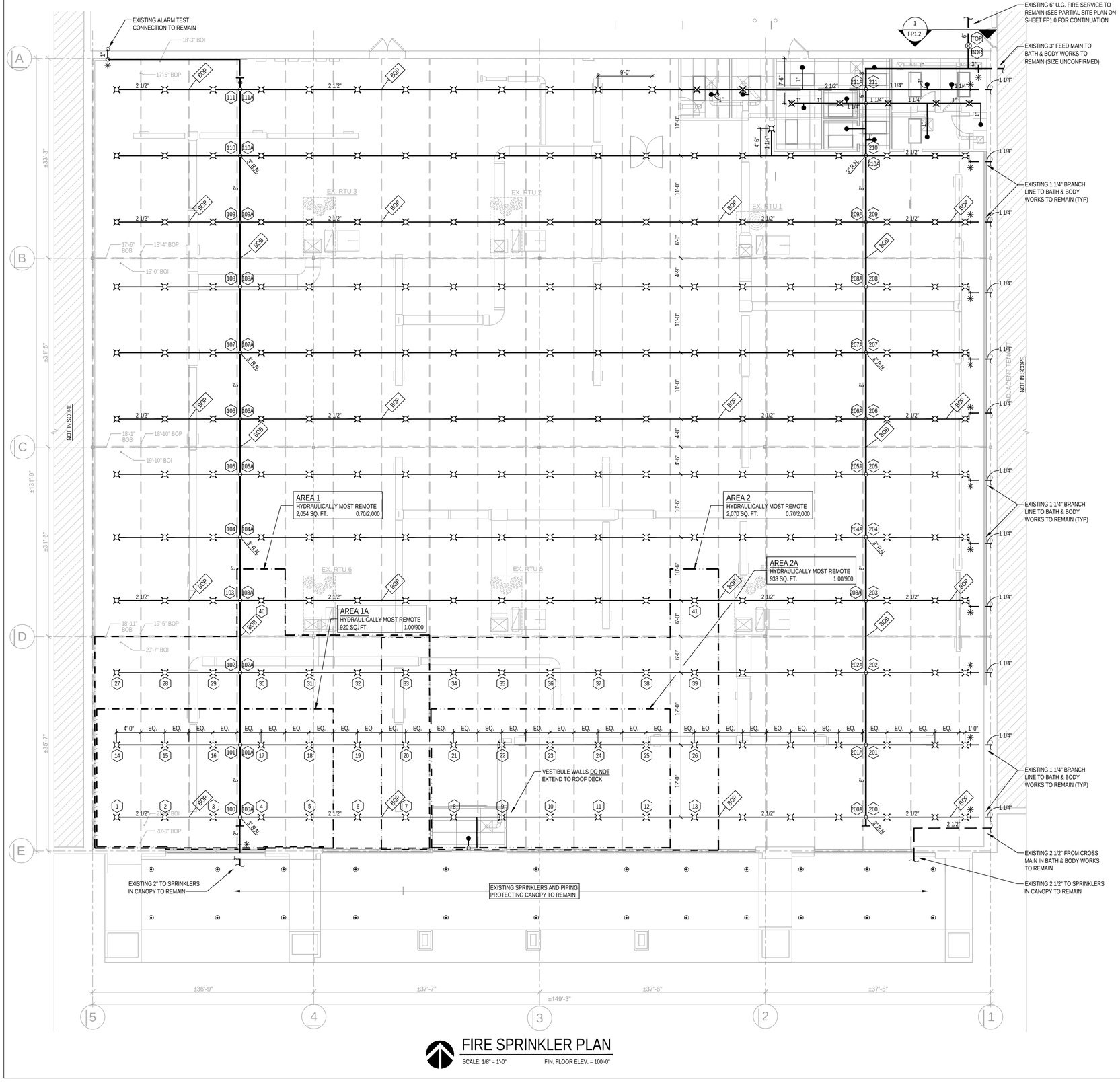
PROTO NO. 1703
PROJECT NO. 170744.06
DRAWN BY DKK
APP'D BY WBS

SHEET TITLE
FIRE SPRINKLER DEMOLITION AND SITE PLAN

SHEET NO.
FP1.0



FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0" FIN. FLOOR ELEV. = 100'-0"

SYMBOL KEY

- EXISTING PIPING TO REMAIN
- NEW PIPING
- RECONNECT EXISTING PIPE
- CHROME RECESSED — ORD/5.6/QR
- BRASS UPRIGHT — INT/25.2/SR
- BRASS UPRIGHT — INT/5.6/QR
- EXISTING CHROME RECESSED
- CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.
- RECOMMENDED CENTER LINE ELEVATION OF NEW PIPE TIGHT TO BOTTOM OF SOLD BEAM OR SOLID PURLIN
- RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT
- CAPPED PIPE
- HYDRAULIC REFERENCE POINT
- AUX DRAIN WITH 3/4" HOSE END ADAPTER
- NOT IN SCOPE

GENERAL NOTES

1. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE DRAWINGS.
2. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.
3. ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADES' WORK.
4. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE DRAWINGS ARE 100% CAD. THE HYDRAULIC CALCULATIONS HAVE BEEN PREPARED USING HASS. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY.
5. SUPPLY ONLY ONE (1) SPRINKLER FROM A SINGLE BRANCH LINE OUTLET. PROVIDE NEW BRANCH LINES AS REQUIRED.
6. SPRINKLERS NEAR A HEAT SOURCE (UNIT HEATERS, DIFFUSERS, STEAM MAINS, SKYLIGHTS, ETC.) SHALL HAVE TEMPERATURE RATINGS IN ACCORDANCE WITH NFPA 13.
7. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE BID DOCUMENTS WILL BE USED.
8. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PIPING OR FITTINGS DAMAGED AS A RESULT OF HIS WORK AT NO COST TO THE OWNER.

DESIGN CRITERIA

SALES AREA, STOCKROOM AND STORAGE ROOMS (HIGH PILED STORAGE WET PIPE FIRE SPRINKLER SYSTEM)

PRIMARY AREA
- DENSITY - 0.70 GPM/SQ FT (PER NFPA 13 - SECTION 20.3.6, 0.49 GPM/SQ FT IS REQUIRED)
- OPERATING AREA - 2,000 SQ FT
- TEMPERATURE CLASS / NOMINAL K-FACTOR / RESPONSE TYPE - INT / 25.2 / SR
- HOSE STREAM ALLOWANCE - 500 GPM
- DURATION - 2 HRS

SECONDARY AREA
- DENSITY - 1.00 GPM/SQ FT (PER NFPA 13 - SECTION 20.3.6, 0.55 GPM/SQ FT IS REQUIRED)
- OPERATING AREA - 900 SQ FT (PER NFPA 13 - SECTION 20.3.6, (4) SPRINKLERS ARE REQUIRED)
- TEMPERATURE CLASS / NOMINAL K-FACTOR / RESPONSE TYPE - INT / 25.2 / SR
- HOSE STREAM ALLOWANCE - 500 GPM
- DURATION - 2 HRS

WATER SUPPLY:

FIRE PROTECTION WATER SUPPLY HAS BEEN OBTAINED FROM A HYDRANT FLOW TEST PERFORMED ON 08/22/2017 AT BY CITY OF CHINO PUBLIC WORKS. THE WATER SUPPLY SHALL BE CONSIDERED EFFECTIVE AT THE POINT OF CONNECTION TO THE 12" PUBLIC WATER MAIN. THE APPROXIMATE WATER SUPPLY ELEVATION IS APPROXIMATELY EVEN WITH THE FINISH FLOOR. NO SUBSTITUTIONS OF WATER SUPPLY DATA OR ITS EFFECTIVE POINT WILL BE ALLOWED.

ACTUAL STATIC:	95 PSI
ACTUAL RESIDUAL:	70 PSI
ACTUAL FLOW:	1,953 GPM

THE ABOVE WATER SUPPLY COORDINATES DO NOT INCLUDE THE REQUIRED 10% OF THE STATIC PRESSURE SAFETY FACTOR THAT SHALL BE ENFORCED. THE FOLLOWING WATER SUPPLY COORDINATES HAVE BEEN ADJUSTED -10 PSI FOR THE REQUIRED SAFETY FACTOR.

DESIGN STATIC:	85 PSI
DESIGN RESIDUAL:	60 PSI
DESIGN FLOW:	1,953 GPM

FIRE PROTECTION ENGINEER OF RECORD:
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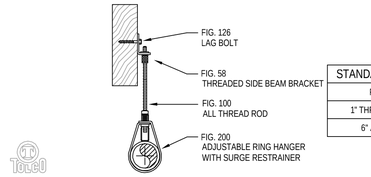
PROTO NO.	1703
PROJECT NO.	170744.06
DRAWN BY	DKK
APPV'D BY	WBS

SHEET TITLE: FIRE SPRINKLER PLAN

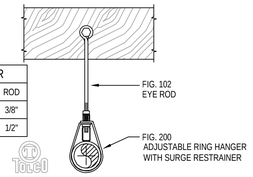
SHEET NO.: FP1.1



STANDARD HANGER	
PIPE	ROD
1" THROUGH 4"	3/8"
6" AND 8"	1/2"

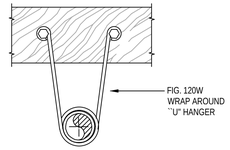
THREADED SIDE BEAM ROD & RING

NOT TO SCALE



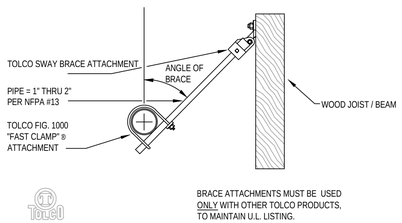
EYE ROD & RING

NOT TO SCALE



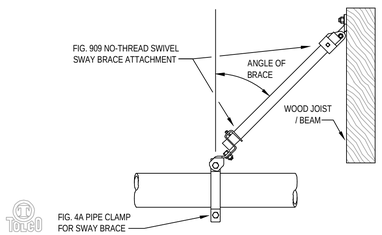
WRAP AROUND "U" HANGER

NOT TO SCALE



LATERAL EARTHQUAKE BRACE

NOT TO SCALE

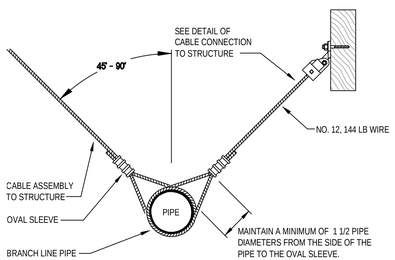


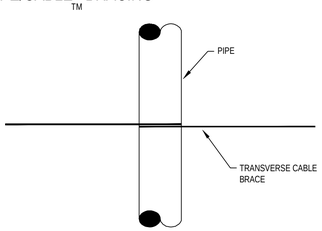
LONGITUDINAL EARTHQUAKE BRACE

NOT TO SCALE

Break Strength Certified-Color Coded-Prestretched

SEISMIC WIRE ROPE/CABLE BRACING™

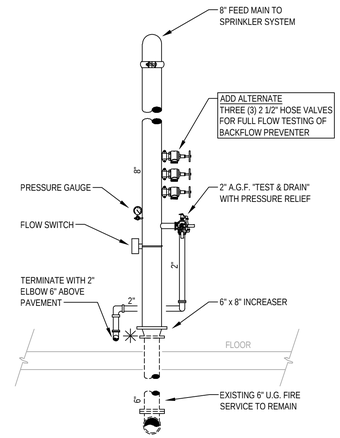




PLAN VIEW

BRANCH LINE RESTRAINT DETAIL FOR PIPING

NOT TO SCALE



1 / FP1.1 ELEVATION AT NEW RISER

NOT TO SCALE

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BID SET

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PROTO NO.	1703
PROJECT NO.	170744.06
DRAWN BY	DKK
APPV'D BY	WBS

SHEET TITLE

FIRE SPRINKLER NOTES AND DETAILS

SHEET NO.

FP1.2

SECTION 15300 - FIRE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

A. RELATED DOCUMENTS: CONDITIONS OF THE CONTRACT, DIVISION 1 - GENERAL REQUIREMENTS AND DRAWINGS APPLY TO THE WORK OF THIS SECTION.

1.02 DESCRIPTION OF WORK

A. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TESTING AND SERVICES NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE PROTECTION SYSTEM FOR THE BUILDING AND SITE AS HEREINAFTER DESCRIBED AND AS SHOWN ON THE ENGINEERING DRAWINGS.

B. WORK SHALL BEGIN AT THE EXISTING 6 IN. FIRE SERVICE SPIGOT BEHIND BUILDING AND SHALL INCLUDE THE FOLLOWING:

1. NEW WET PIPE SPRINKLER SYSTEM.
2. DISCONNECTION AND DEMOLITION OF EXISTING SPRINKLERS, PIPING AND OTHER EQUIPMENT AS SHOWN ON THE ENGINEERING DRAWINGS.
3. COORDINATION OF WORK AND SCHEDULES WITH OTHER TRADES.

C. SITE WORK - PROVIDE THE FOLLOWING: (ADD ALTERNATE)

1. ABOVE GRADE BACKFLOW PREVENTER.
2. THRUST BLOCKING AS REQUIRED.
3. BACKFILL AND COMPACTION.

D. INTERIOR WORK - PROVIDE THE FOLLOWING:

1. PRESSURE GAUGES.
2. FLOW SWITCH.
3. OVERHEAD PIPE, FITTINGS, HANGERS AND SPRINKLERS.
4. TEST CONNECTIONS, MAIN DRAINS AND AUXILIARY DRAINS.

E. IT IS INTENDED THAT THE ENGINEERING DRAWINGS AND SPECIFICATION SHALL DESCRIBE AND PROVIDE FOR A WORKING INSTALLATION COMPLETE IN EVERY DETAIL AND ALL ITEMS NECESSARY FOR SUCH COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE ENGINEERING DRAWINGS.

1.03 REFERENCES

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS:

1. CALIFORNIA BUILDING CODE - 2016 EDITION
2. CALIFORNIA FIRE CODE - 2016 EDITION
3. NFPA 13, SPRINKLER SYSTEMS - 2016 EDITION
4. NFPA 24, PRIVATE FIRE SERVICE MAINS - 2016 EDITION

1.04 SYSTEM DESCRIPTION

A. FIRE SPRINKLER SYSTEM DESIGN CRITERIA SHALL BE STRICTLY PER THIS SPECIFICATION.

B. FIRE SPRINKLER SYSTEM TO PROVIDE FIRE PROTECTION FOR THE AREAS INDICATED ON THE ENGINEERING DRAWINGS.

C. INTERFACE FIRE SPRINKLER SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.

D. OFFICE AREAS, RESTROOMS, VESTIBULE, ETC. (LIGHT HAZARD WET PIPE FIRE SPRINKLER SYSTEM):

- DENSITY - 0.10 GPM/SQ FT
- OPERATING AREA - 1,500 SQ FT
- TEMPERATURE CLASS / NOMINAL K-FACTOR / RESPONSE TYPE - ORD / 5.6 / QR
- HOSE STREAM ALLOWANCE - 100 GPM
- DURATION - 0.50 HRS

E. SALES AREA, STOCKROOM AND STORAGE ROOMS (HIGH PILED STORAGE WET PIPE FIRE SPRINKLER SYSTEM)

PRIMARY AREA
- DENSITY - 0.70 GPM/SQ FT
  (PER NFPA 13 - SECTION 20.3.6, 0.49 GPM/SQ FT IS REQUIRED)
- OPERATING AREA - 2,000 SQ FT
- TEMPERATURE CLASS / NOMINAL K-FACTOR / RESPONSE TYPE - INT / 25.2 / SR
- HOSE STREAM ALLOWANCE - 500 GPM
- DURATION - 2 HRS

SECONDARY AREA
- DENSITY - 1.00 GPM/SQ FT
  (PER NFPA 13 - SECTION 20.3.6, 0.55 GPM/SQ FT IS REQUIRED)
- OPERATING AREA - 900 SQ FT
  (PER NFPA 13 - SECTION 20.3.6, (4) SPRINKLERS ARE REQUIRED)
- TEMPERATURE CLASS / NOMINAL K-FACTOR / RESPONSE TYPE - INT / 25.2 / SR
- HOSE STREAM ALLOWANCE - 500 GPM
- DURATION - 2 HRS

F. WATER SUPPLY:

FIRE PROTECTION WATER SUPPLY HAS BEEN OBTAINED FROM A HYDRANT FLOW TEST PERFORMED ON 08/22/2017 AT BY CITY OF CHINO PUBLIC WORKS. THE WATER SUPPLY SHALL BE CONSIDERED EFFECTIVE AT THE POINT OF CONNECTION TO THE 12" PUBLIC WATER MAIN. THE APPROXIMATE WATER SUPPLY ELEVATION IS APPROXIMATELY EVEN WITH THE FINISH FLOOR. NO SUBSTITUTIONS OF WATER SUPPLY DATA OR ITS EFFECTIVE POINT WILL BE ALLOWED.

ACTUAL STATIC:	95 PSI
ACTUAL RESIDUAL:	70 PSI
ACTUAL FLOW:	1,953 GPM

THE ABOVE WATER SUPPLY COORDINATES DO NOT INCLUDE THE REQUIRED 10% OF THE STATIC PRESSURE SAFETY FACTOR THAT SHALL BE ENFORCED. THE FOLLOWING WATER SUPPLY COORDINATES HAVE BEEN ADJUSTED -10 PSI FOR THE REQUIRED SAFETY FACTOR.

DESIGN STATIC:	85 PSI
DESIGN RESIDUAL:	60 PSI
DESIGN FLOW:	1,953 GPM

G. SPRINKLER SPACING SHALL BE AS SHOWN ON THE ENGINEERING DRAWINGS.

1. ACOUSTICAL TILE - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. NOT MORE THAN A 3 IN. RADIUS TOLERANCE ABOUT THE POINT IDENTIFIED BY DIMENSION WILL BE ACCEPTED. WHERE ROWS OF SPRINKLERS ARE PROVIDED WITHIN THE SAME CEILING PLANE, ANY PART OF THE TOLERANCE USED FOR ONE SPRINKLER SHALL BE THE SAME FOR ALL OTHERS IN THAT SAME ROW.
2. HARD CEILINGS - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. SPRINKLERS SHALL BE IN LINE WITH LIGHT FIXTURES AND OTHER SPRINKLERS WHERE INDICATED ON THE DRAWINGS. COORDINATE CLOSELY WITH THE ELECTRICAL CONTRACTOR.
3. UNFINISHED AREAS - LOCATE SPRINKLERS AS SHOWN ON THE ENGINEERING DRAWINGS.

H. EXISTING FREE-STANDING FIRE DEPARTMENT CONNECTION TO REMAIN.

I. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN MAIN OR BRANCH LINE PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE ENGINEERING DRAWINGS.

J. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.

K. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE ENGINEERING DRAWINGS WILL BE USED.

1.05 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS:

1. INSTALLER'S RESPONSIBILITIES INCLUDE PREPARING SHOP DRAWING SUBMITTAL, FABRICATING AND INSTALLING SPRINKLER SYSTEMS. BASE CALCULATIONS ON WATER SUPPLY COORDINATES PROVIDED HEREIN.
   a. INSTALLER SHALL BE STATE AND LOCALLY LICENSED.

B. EQUIPMENT AND COMPONENTS NOT SPECIFICALLY SPECIFIED SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. FOR FIRE PROTECTION SYSTEMS INSTALLATION.

C. ALL FIRE SPRINKLER SYSTEM COMPONENTS SHALL BE INSTALLED FREE OF ANY RUST, CORROSION OR VISIBLE DAMAGE. ALL ITEMS NOT COMPLYING WITH THIS REQUIREMENT SHALL BE REPLACED WITHOUT COST TO THE OWNER.

1.06 PROJECT CONDITIONS

A. INTERRUPTION OF EXISTING SPRINKLER SERVICE: DO NOT INTERRUPT SPRINKLER SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY SPRINKLER SERVICE ACCORDING TO REQUIREMENTS INDICATED:

1. NOTIFY CONSTRUCTION MANAGER IN ADVANCE OF PROPOSED INTERRUPTION OF SPRINKLER SERVICE.
2. DO NOT PROCEED WITH INTERRUPTION OF SPRINKLER SERVICE WITHOUT CONSTRUCTION MANAGER'S WRITTEN PERMISSION.
3. PROVIDE TEMPORARY PIPING, FITTINGS AND VALVES AS REQUIRED TO MAINTAIN SPRINKLER SERVICE.

1.07 REGULATORY REQUIREMENTS

A. ALL WORK SHALL MEET THE REQUIREMENTS OF SECTION 1.03.

B. THE FIRE SPRINKLER CONTRACTOR SHALL NOT PURSUE ANY APPROVALS OR INTERPRETATIONS OF CCI'S CONSTRUCTION DOCUMENTS EXCEPT THROUGH CCI.

C. SPRINKLER PIPING SHALL NOT BE CONCEALED WHERE IT IS INACCESSIBLE UNLESS IT IS FIRST INSPECTED AND ACCEPTED BY A REPRESENTATIVE OF THE AUTHORITY HAVING JURISDICTION.

D. ANY WORK PERFORMED PRIOR TO THE SATISFACTORY REVIEW BY CCI AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION AND THE INSURANCE UNDERWRITER WILL BE SOLELY AT THE FIRE SPRINKLER CONTRACTOR'S RISK.

E. THE SYSTEM WILL NOT BE ACCEPTABLE UNTIL FINAL TESTING AND RECEIPT OF THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE HAS BEEN OBTAINED.

1.08 SUBMITTALS

A. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE ENGINEERING DRAWINGS ARE 100% CAD. THE HYDRAULIC CALCULATIONS HAVE BEEN PREPARED USING HASS. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY. UTILIZATION OF THESE DOCUMENTS FOR THE DEVELOPMENT OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE FIRE SPRINKLER CONTRACTOR FROM ANY OF HIS RESPONSIBILITIES REQUIRED HEREIN.

B. SUBMIT THE FOLLOWING:

1. SHOP DRAWINGS. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF EACH DRAWING. DRAWINGS WILL BE RETURNED IN THE SAME FORMAT RECEIVED. SUBMITTAL MUST BE COMPREHENSIVE OF ENTIRE PROJECT, COMPLETE IN ALL DETAIL AND THE SAME SCALE AS THE ENGINEERING DRAWINGS.
2. HYDRAULIC CALCULATIONS. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF EACH CALCULATION. CALCULATIONS WILL BE RETURNED IN THE SAME FORMAT RECEIVED. CALCULATIONS SHALL INCLUDE PEAKING INFORMATION.
3. MANUFACTURER'S LITERATURE ON ALL SYSTEM EQUIPMENT. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF THE LITERATURE. LITERATURE WILL BE RETURN IN THE SAME FORMAT AS RECEIVED. LITERATURE SHALL CLEARLY IDENTIFY EXACTLY WHAT COMPONENTS ARE BEING PROVIDED WHICH SHALL INCLUDE: FINISH, SIZE, TYPE, OPTIONS, ETC. LITERATURE WHICH IS NOT CLEARLY IDENTIFIED WILL BE REJECTED.

C. CCI WILL REVIEW THIS SUBMITTAL FOR CONSISTENCY WITH CCI'S CONSTRUCTION DOCUMENTS.

D. AFTER THE SATISFACTORY REVIEW BY CCI, PROVIDE SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION AND THE INSURANCE UNDERWRITER FOR APPROVAL.

E. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING, IN WRITING, TO ANY COMMENTS FROM THE AUTHORITY HAVING JURISDICTION OR THE INSURANCE UNDERWRITER WITHIN TEN (10) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS. COPIES OF THE RESPONSE SHALL BE SENT TO THE GENERAL CONTRACTOR AND CCI.

1.09 AS-BUILT DRAWINGS

A. PROVIDE AS-BUILT DRAWINGS IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT AND NFPA 13.

1.10 OPERATION AND MAINTENANCE DATA

A. PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS TO THE OWNER IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT AND NFPA 13.

1.11 WARRANTY

A. REPAIR ALL DEFECTIVE WORKMANSHIP OR REPLACE ALL DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. WORKMANSHIP OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.

PART 2 - PRODUCTS

2.01 PIPING

A. UNDERGROUND PIPING: (ADD ALTERNATE) PER LOCAL REQUIREMENTS AND NFPA 13 AND NFPA 24. PIPE SHALL HAVE A MINIMUM RATED WORKING PRESSURE OF 150 PSI. NOTE: ALL PIPE PRIOR TO THE "BACKFLOW PREVENTION DEVICE" SHALL BE ACCEPTABLE FOR USE IN POTABLE WATER SYSTEMS PER LOCAL REQUIREMENTS (E.G., CEMENT LINED DUCTILE IRON, GALVANIZED, ETC.).

B. OVERHEAD PIPE: PER LOCAL REQUIREMENTS AND NFPA 13. ALL PIPE SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) EQUAL TO OR GREATER THAN 1.00. REFER TO THE CURRENT UL FIRE PROTECTION EQUIPMENT DIRECTORY - STEEL SPRINKLER PIPE FOR ACCEPTABLE MANUFACTURERS, SIZES, AND JOINING METHODS.

C. THE ENGINEER'S HYDRAULIC CALCULATIONS ANTICIPATES THAT ALL WET PIPE SYSTEM RISERS, FEED AND CROSS MAINS AND BRANCH LINES SHALL HAVE HYDRAULIC CHARACTERISTICS EQUAL TO OR GREATER THAN SCHEDULE 10 PIPE.

2.02 JOINING OF PIPE AND FITTINGS

A. ALL PIPE SHALL BE JOINED IN ACCORDANCE WITH NFPA 13 AND NFPA 24 AND MANUFACTURER'S RECOMMENDATIONS.

B. FITTINGS SHALL BE 175 PSI SCREWED OR FLANGED BLACK CAST IRON OR APPROVED EQUAL SUCH AS MECHANICAL, GROOVED, PLAIN END OR WELDED CONNECTIONS. WHERE GROOVED FITTINGS AND COUPLINGS ARE USED TOGETHER THEY SHALL BE OF THE SAME MANUFACTURER. NOTE: ALL FITTINGS PRIOR TO THE "BACKFLOW PREVENTION DEVICE" SHALL BE ACCEPTABLE FOR USE IN POTABLE WATER SYSTEMS PER LOCAL REQUIREMENTS (E.G., CEMENT LINED DUCTILE IRON, GALVANIZED, ETC.).

C. BUSHINGS SHALL NOT BE USED.

D. FLEXIBLE COUPLINGS SHALL BE IDENTIFIED ON THE SHOP DRAWINGS.

2.03 HANGERS AND SLEEVES

A. SLEEVES SHALL BE SET FOR ALL PIPES PASSING THROUGH CONCRETE FLOORS, FOUNDATIONS AND MASONRY WALLS.

B. PROVIDE PRIMED ESCUTCHEON PLATES AT ALL WALL PENETRATIONS WHERE THE HOLE WOULD OTHERWISE BE EXPOSED TO VIEW.

C. ALL HANGERS TO BE OF APPROVED MATERIALS AND SPACED IN ACCORDANCE WITH NFPA 13 AND THE PIPING MANUFACTURER'S SPECIFICATIONS.

D. THE SECTION MODULUS REQUIRED BY NFPA 13 SHALL BE PROVIDED FOR ALL TRAPEZE MEMBERS SUPPORTING PIPING.

E. PROTECT PIPING AGAINST DAMAGE DUE TO EARTHQUAKE IN ACCORDANCE WITH NFPA 13, WHICH SHALL INCLUDE THE FOLLOWING:

1. FLEXIBLE COUPLINGS, MINIMUM CLEARANCES, LATERAL AND LONGITUDINAL BRACING, FOUR-WAY BRACING AND RETAINING STRAPS.
2. VERTICAL AND LATERAL RESTRAINT SHALL BE PROVIDED ON **ALL** BRANCH LINES, INCLUDING END OF LINE, PER NFPA 13. EXCEPTION: BRANCH LINES SUPPORTED BY RODS LESS THAN 6 IN. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE, AS DEFINED BY NFPA 13, REQUIRE VERTICAL RESTRAINT ONLY.
3. WIRE USED FOR RESTRAINT SHALL BE LOCATED WITHIN 24 IN. OF A HANGER. HANGER SHALL BE OF A TYPE THAT RESISTS UPWARD MOVEMENT OF THE BRANCH LINE.
4. SPRIGS 4 FT OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT.

2.04 BACKFLOW PREVENTION (ADD ALTERNATE)

A. 8 IN. DOUBLE CHECK DETECTOR BACKFLOW PREVENTER WITH TWO SUPERVISED INDICATING VALVES AND PRESSURE GAUGES.

1. ACCEPTABLE MANUFACTURERS: EQUAL TO WILKINS MODEL 450 DA.

2.05 VALVES

A. EXTERIOR VALVES: NONE.

B. INTERIOR VALVES:

1. GLOBE VALVE: BRONZE THREADED; RENEWABLE COMPOSITION DISC; 175 PSI RATED WORKING PRESSURE.
   a. ACCEPTABLE MANUFACTURERS: CRANE, MILWAUKEE, NIBCO, STOCKHAM OR APPROVED EQUAL.

2.06 WATERFLOW SWITCH

A. VANE TYPE: SHALL BE MOUNTED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTRUCTIONS; DESIGNED TO SIGNAL ANY FLOW OF WATER THAT EQUALS OR EXCEEDS 10 GPM; DETECTOR SWITCH MECHANISM SHALL INCORPORATE AN INSTANTLY RECYCLING PNEUMATIC RETARD ELEMENT WITH AN ADJUSTABLE RANGE OF 0 TO 60 SECONDS; TWO SINGLE POLE, DOUBLE THROW SWITCHES SHALL BE PROVIDED SUITABLE FOR OPERATION ON 24-VOLT D.C. OR 110-VOLT A.C.; DUST TIGHT CONSTRUCTION; TAMPER RESISTANT SCREWS ON ENCLOSURE; CORROSION RESISTANT COMPONENTS WITHIN WATERWAY.

1. ACCEPTABLE MANUFACTURERS: GUARDIAN, POTTER ELECTRIC, STARFIRE, SYSTEM SENSOR OR APPROVED EQUAL.

B. THE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR AND WIRED COMPLETE BY THE FIRE ALARM CONTRACTOR.

2.07 SPRINKLERS

A. TYPES:

1. CHROME RECESSED - GLASS BULB QUICK RESPONSE RECESSED SPRINKLER WITH POLISHED CHROME RECESSED ESCUTCHEON.
2. BRASS UPRIGHT - GLASS BULB STANDARD RESPONSE UPRIGHT SPRINKLER.

B. ACCEPTABLE MANUFACTURERS: GLOBE, RELIABLE, TYCO, VICTAULIC AND VIKING.

C. ONLY SPRINKLERS MANUFACTURED AFTER JANUARY 1, 2017 WILL BE ACCEPTED FOR USE.

D. ONLY SPRINKLERS MANUFACTURED UTILIZING BELLEVILLE SPRING SEALS WILL BE ACCEPTABLE FOR USE.

E. PROVIDE INSIDE THE BUILDING BY THE FIRE ALARM CONTROL PANEL ONE (1) TWELVE (12) HEAD SPARE SPRINKLER CABINETS STOCKED WITH SPRINKLERS AND ESCUTCHEON ASSEMBLIES PROPORTIONATE TO THOSE PROVIDED IN THE BUILDING AND ALL NECESSARY SPRINKLER WRENCHES.

F. IF FLEXHEAD, OR A SIMILAR PRODUCT, IS USED, HYDRAULIC CALCULATIONS SHALL BE REVISED TO INCLUDE THE ADDITIONAL FRICTION LOSS, AND PIPE SIZES ADJUSTED IF REQUIRED AT NO ADDITIONAL COST.

2.08 SIGNS

A. APPROVED ENAMELED METAL SIGNS SHALL BE SECURELY ATTACHED AT ALL MAIN DRAINS, AUXILIARY DRAINS AND ALARM TEST CONNECTIONS.

B. PROVIDE A PERMANENTLY ATTACHED PLACARD INDICATING HYDRAULIC DESIGN INFORMATION IN ACCORDANCE WITH NFPA 13 AND PLACED BY THE FIRE ALARM CONTROL PANEL. A MOCK-UP OF PLACARD SHALL BE INCLUDED WITH EQUIPMENT LITERATURE.

C. PROVIDE A PERMANENTLY ATTACHED PLACARD INDICATING GENERAL INFORMATION IN ACCORDANCE WITH NFPA 13 AND PLACED BY THE FIRE ALARM CONTROL PANEL. A MOCK-UP OF PLACARD SHALL BE INCLUDED WITH EQUIPMENT LITERATURE.

D. PROVIDE BY THE FIRE ALARM CONTROL PANEL A PLAN INDICATING THE AREAS SERVED BY EACH CONTROL VALVE. THE PLAN SHALL ALSO INCLUDE THE LOCATION OF EACH LOW POINT OR AUXILIARY DRAIN VALVE. THE PLAN SHALL CLEARLY IDENTIFY THE SYSTEM ASSOCIATED WITH EACH LOW POINT AND AUXILIARY DRAIN VALVE, AND MANUAL AIR VENT. THIS PLAN SHALL BE FRAMED WITH A PLEXIGLASS COVER AND SHALL BE PERMANENTLY ATTACHED TO A WALL. PLAN SHALL BE LARGE ENOUGH TO CLEARLY DEFINE THE AREAS PROTECTED BY THE SYSTEM.

2.09 TEST AND DRAIN CONNECTIONS

A. PROVIDE COMBINATION ALARM TEST/MAIN DRAIN VALVE WITH PRESSURE RELIEF EQUAL TO THE AGF MANUFACTURING CO. MODEL 1011A, 2 IN. SIZE WITH ½ IN. TEST ORIFICE WHERE INDICATED ON DRAWINGS.

B. AUXILIARY DRAINS CONSISTING OF PLUGS, OR GLOBE VALVES AND PLUGS WHERE CAPACITY OF TRAPPED PIPE SECTION EXCEEDS 5 GALLONS, SHALL BE PROVIDED TO DRAIN ALL POINTS IN THE SYSTEM THAT CANNOT BE DRAINED BACK TO MAIN RISER.

PART 3 - EXECUTION

3.01 COORDINATION WITH OTHER TRADES

A. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCE.

3.02 PAINTING AND PATCHING

A. PAINTING OF SPRINKLER PIPING IS NOT INCLUDED IN THIS CONTRACT. ALL SPRINKLER PIPING SHALL BE THOROUGHLY CLEANED, REMOVING ALL DIRT, OIL, ETC. AND MADE READY TO RECEIVE PAINT IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT.

B. HOLES IN WALLS OR FLOORS CUT DURING THE PERFORMANCE OF THIS WORK SHALL BE PATCHED IF THE HOLES CANNOT BE COVERED BY STANDARD ESCUTCHEON PLATES SO AS TO COMPLETELY CONCEAL THE CUTS WHERE THEY WOULD OTHERWISE BE EXPOSED TO VIEW.

C. FIRE STOP ALL PENETRATIONS OF FIRE RATED ASSEMBLIES.

3.03 SYSTEM TESTS

A. HYDROSTATICALLY TEST ENTIRE ALL SYSTEMS IN ACCORDANCE WITH NFPA 13 AND NFPA 24.

B. WHEN THE SYSTEM IS INITIALLY COMMISSIONED (FILLED WITH WATER), USE THE MANUAL AIR VENT VALVE AND HOSE-END ADAPTER AT THE END OF THE SYSTEM. ATTACHED TO A HOSE TO THE EXTERIOR AND OPEN THE VALVE UNTIL WATER IS DISCHARGED THROUGH HOSE. THIS PROCEDURE SHALL BE USED ANY TIME THE SYSTEM IS DRAINED AND REFILLED.

C. FLUSH UNDERGROUND IN ACCORDANCE WITH NFPA 13 TO ENSURE ALL FOREIGN MATTER HAS BEEN PURGED FROM UNDERGROUND PIPE BEFORE CONSTRUCTING NEW RISER.

D. TESTS SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION AND OWNER'S AUTHORIZED AGENT.

E. PRELIMINARY TESTING PROCEDURES SHALL BE CONDUCTED AS MENTIONED ABOVE TO ASSURE PROPER OPERATION WHEN THE FINAL TESTING IS PERFORMED.

F. THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES AS SHOWN IN NFPA 13 MUST BE COMPLETED AND SUBMITTED TO THE ENGINEER BEFORE FINAL ACCEPTANCE MAY BE GIVEN.

END OF SECTION

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PROJECT NO.	170744.06
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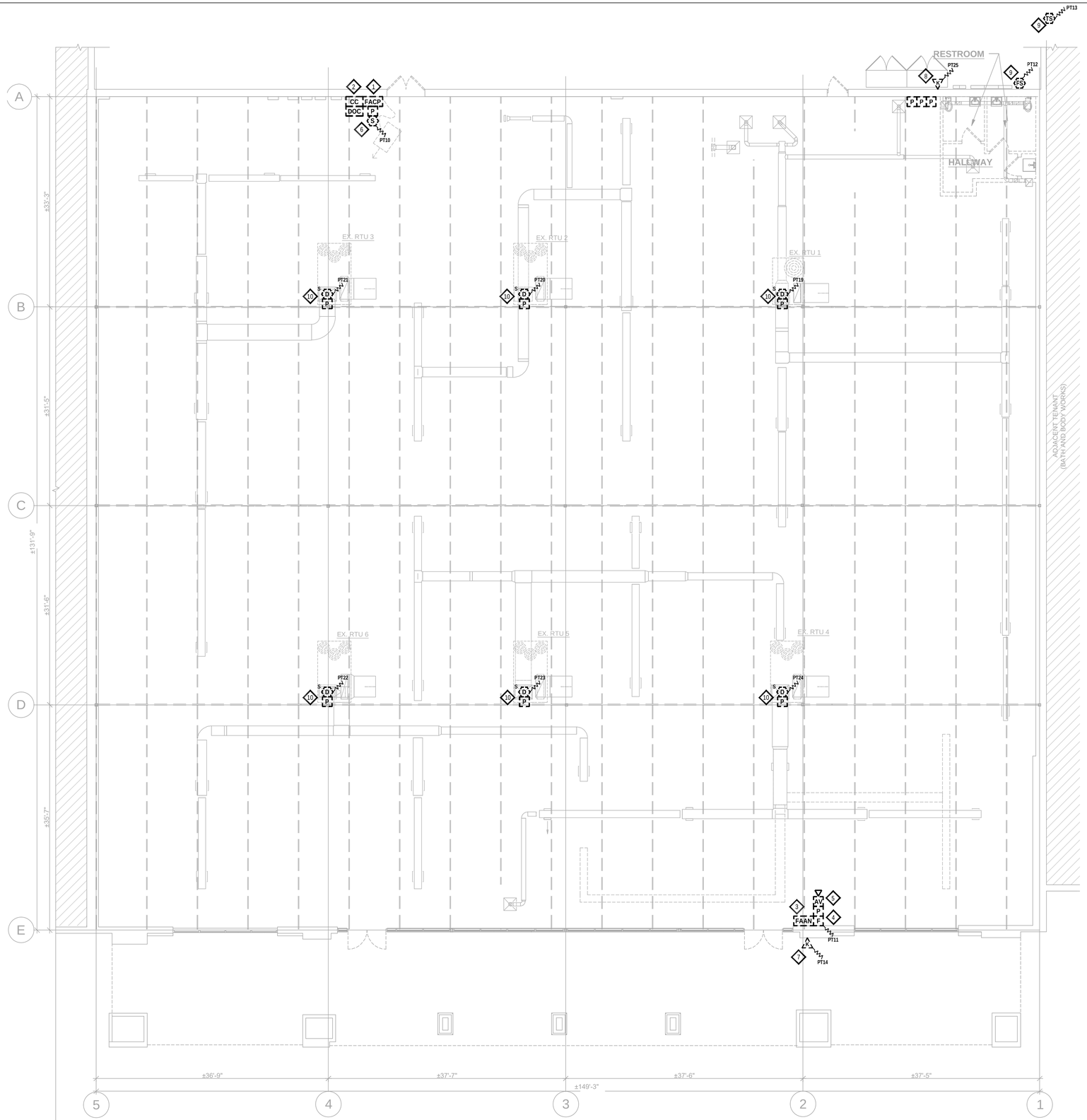
APPV'D BY	WBS

SHEET TITLE
FIRE SPRINKLER SPECIFICATIONS

SHEET NO.
FP1.3



FIRE ALARM PLAN - DEMOLITION WORK

SCALE: 1/8" = 1'-0"

FIRE ALARM SYMBOL KEY		QTY.
FACP	EXISTING FIRE ALARM CONTROL PANEL (BOSCH 9412GV4)	
FAAN	EXISTING FIRE ALARM ANNUNCIATOR (BOSCH D1256)	
CC	EXISTING CELLULAR COMMUNICATOR (DMP UNIVERSAL FIRE COMMUNICATOR (12V)	
DOC	EXISTING DOCUMENTATION CABINET (RED ENCLOSURE)	
F	EXISTING MANUAL PULL STATION (EDWARDS SIGNALS 270-SPO)	
S	EXISTING SMOKE DETECTOR (SYSTEM SENSOR 2W-B)	
D_S	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (S = SUPPLY SIDE)	
P_{XX}	EXISTING POINT OF PROTECTION INPUT TRANSPONDER (POPIT) (BOSCH D9127T) (XX = POPIT POINT ADDRESS)	
P_{XX}	NEW POINT OF PROTECTION INPUT TRANSPONDER (POPIT) (BOSCH D9127T) (XX = POPIT POINT ADDRESS)	1
R	NEW RELAY MODULE (BOSCH D130)	1
FS	EXISTING FLOW SWITCH	
TS	EXISTING TAMPER SWITCH	
TS	NEW TAMPER SWITCH (BY OTHERS)	2
TSM	NEW TRANSIENT SUPPRESSION MODULE (DITEK DTK-1LVLP-X)	1
AV_{XX}	EXISTING WALL MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (WHEELOCK AS-121575W-FR)	
———	FIRE ALARM CONDUCTORS (MATCH EXISTING)	
- - -	NEW FIRE ALARM CONDUCTORS LISTED FOR WET LOCATION IN UNDERGROUND CONDUIT (1 INCH MINIMUM)	
—·—·—	NEW FIRE ALARM CONDUCTORS LISTED FOR WET LOCATION IN EXTERIOR CONDUIT (1 INCH MINIMUM)	
J	JUNCTION BOX	
~W~	END OF LINE RESISTOR	

DEMOLITION KEYED NOTES (THIS SHEET ONLY)

1. EXISTING FIRE ALARM CONTROL PANEL AND ASSOCIATED FIRE ALARM EQUIPMENT LOCATED IN THE STOCK ROOM SHALL REMAIN AS CURRENTLY CONFIGURED AND KEPT IN GOOD WORKING CONDITION. THE EXISTING FIRE ALARM CONTROL PANEL TO BE RE-USED TO MONITOR THE FIRE ALARM EQUIPMENT THROUGHOUT THE BUILDING.
2. EXISTING CELLULAR COMMUNICATOR LOCATED IN THE STOCK ROOM SHALL REMAIN AS CURRENTLY CONFIGURED AND KEPT IN GOOD WORKING CONDITION. THE CELLULAR COMMUNICATOR SHALL BE RE-USED TO TRANSMIT SIGNAL TO OFF-SITE MONITORING FACILITY AS CURRENTLY CONFIGURED.
3. THE FIRE ALARM CONTRACTOR SHALL DISCONNECT THE EXISTING FIRE ALARM ANNUNICATOR (FAAN) LOCATED AT THE FRONT ENTRANCE. THE EXISTING FAAN SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY. THE ASSOCIATED CABLING AND CONDUIT CONNECTED TO THE FAAN SHALL BE REMAIN AND BE REUSED/ EXTENDED TO THE NEW LOCATION.
4. THE FIRE ALARM CONTRACTOR SHALL DISCONNECT THE EXISTING MANUAL PULL STATION AND ASSOCIATED POPIT MODULE. THE EXISTING MANUAL PULL STATION AND ASSOCIATED POPIT MODULE SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY. THE ASSOCIATED CABLING AND CONDUIT CONNECTED TO THE MANUAL PULL STATION SHALL BE REMAIN AND BE REUSED/ EXTENDED TO THE NEW LOCATION.
5. THE FIRE ALARM CONTRACTOR SHALL DISCONNECT THE EXISTING WALL MOUNTED AUDIBLE/VISUAL NOTIFICATION APPLIANCE. THE EXISTING WALL MOUNTED AUDIBLE/VISUAL NOTIFICATION APPLIANCE SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY. THE ASSOCIATED CABLING AND CONDUIT CONNECTED TO THE AUDIBLE/VISUAL NOTIFICATION APPLIANCE SHALL BE REMAIN AND BE REUSED/ EXTENDED TO THE NEW LOCATION.
6. EXISTING SMOKE DETECTOR AND ASSOCIATED POPIT MODULE SHALL REMAIN AS CURRENTLY CONFIGURED AND KEPT IN GOOD WORKING CONDITION.
7. THE FIRE ALARM CONTRACTOR SHALL DISCONNECT THE EXISTING KNOX BOX AND ASSOCIATED POPIT MODULE AT THE MAIN ENTRANCE. THE EXISTING KNOX BOX AND ASSOCIATED POPIT MODULE SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY. THE ASSOCIATED CABLING AND CONDUIT CONNECTED TO THE KNOX BOX SHALL BE REMAIN AND BE REUSED/ EXTENDED TO THE NEW LOCATION.
8. EXISTING KNOX BOX AND ASSOCIATED POPIT MODULE SHALL REMAIN AS CURRENTLY CONFIGURED AND KEPT IN GOOD WORKING CONDITION.
9. THE EXISTING MONITORING CONNECTIONS TO THE EXTERIOR CONTROL VALVES AND WATERFLOW SWITCH SHALL REMAIN AS CURRENTLY CONFIGURED AND KEPT IN GOOD WORKING CONDITION.
10. EXISTING DUCT SMOKE DETECTOR AND ASSOCIATED POPIT MODULE SHALL REMAIN AS CURRENTLY CONFIGURED AND KEPT IN GOOD WORKING CONDITION.

FIRE ALARM SHEET INDEX

SHEET #	DESCRIPTION
FAD1.1	FIRE ALARM PLAN - DEMOLITION WORK
FA1.1	FIRE ALARM PLAN - NEW WORK
FA1.2	FIRE ALARM NOTES AND SITE PLAN
FA1.3	FIRE ALARM MATRIX, PROGRAMMING, CALCULATIONS & DETAILS
FA1.4	FIRE ALARM SPECIFICATIONS

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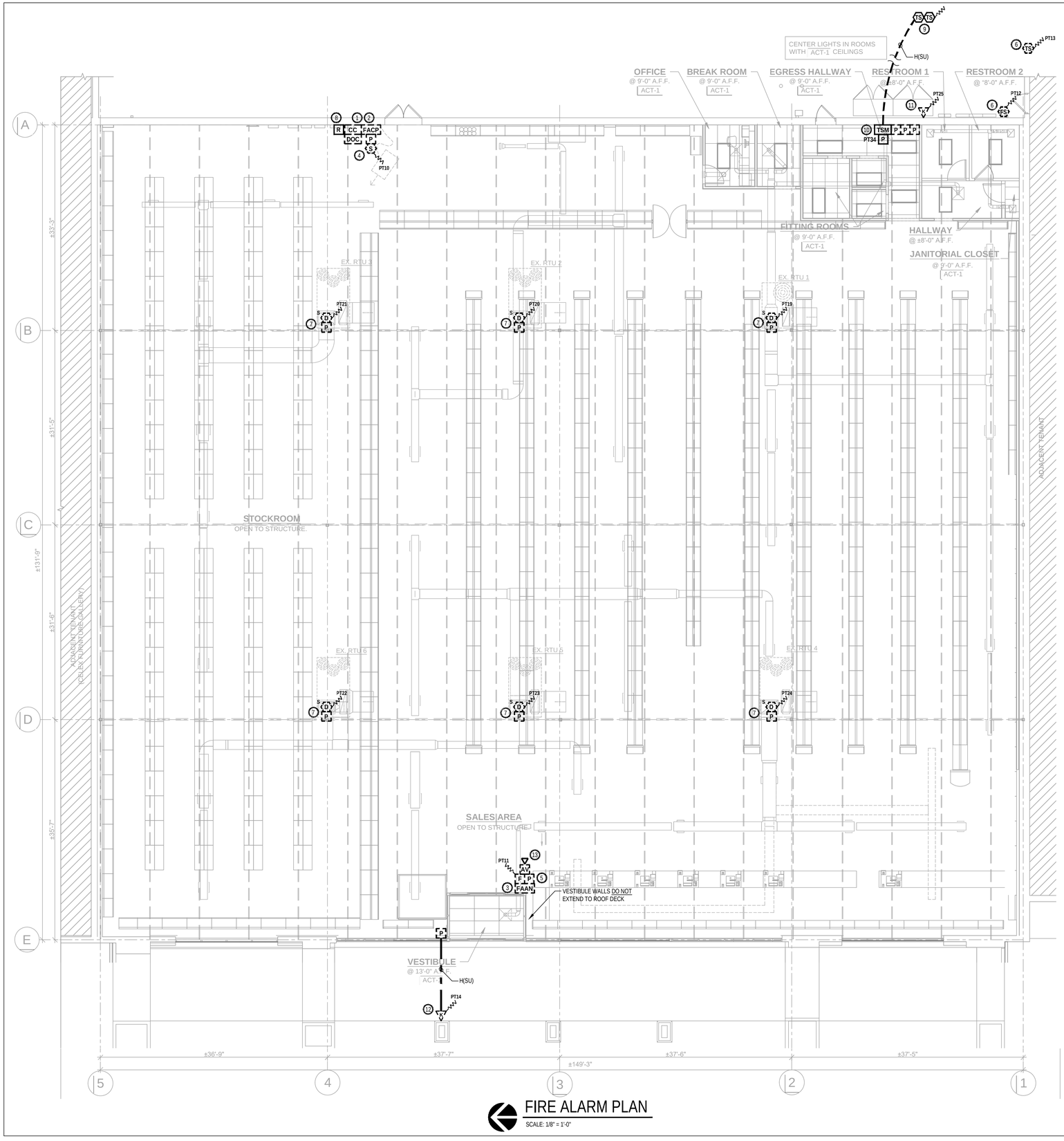
PROJECT NO. 170744.07
DRAWN BY JLS
APP'D BY PTK
SHEET TITLE
FIRE ALARM PLAN - DEMOLITION WORK
SHEET NO.
FAD1.1



FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

FIRE ALARM KEYED NOTES (THIS SHEET ONLY)

1. THE EXISTING FIRE ALARM CONTROL PANEL, CELLULAR COMMUNICATOR AND ASSOCIATED FIRE ALARM EQUIPMENT LOCATED IN THE STOCKROOM SHALL REMAIN AS CURRENTLY CONFIGURED.
2. THE INSTALLING FIRE ALARM CONTRACTOR SHALL FIELD VERIFY EXISTING FIRE ALARM CONTROL PANEL (FACP) HAS SUFFICIENT STANDBY SECONDARY BATTERY CAPACITY TO ACCOMMODATE THE NEW FIRE ALARM EQUIPMENT. IF ADEQUATE SECONDARY BATTERY CAPACITY IS NOT PROVIDED, CONTRACTOR WILL PROVIDE LARGER BATTERIES WITHOUT EXCEEDING EXISTING FACP AND APS MANUFACTURERS CHARGING CAPABILITIES. BATTERY CABINET WILL BE PROVIDED AS NEEDED.
3. RELOCATE THE EXISTING REMOTE LCD ANNUNCIATOR TO THE NEW FRONT ENTRANCE. THE FIRE ALARM CABLING SHALL BE "FISHED" THROUGH THE MULLION FROM THE TOP OF THE VESTIBULE. PROVIDE NEW CABLING AND CONDUIT AS NEEDED TO EXTEND THE CIRCUIT FROM PREVIOUS LOCATION TO THE NEW ENTRY VESTIBULE. COORDINATE EXACT MOUNTING LOCATION WITH THE GENERAL CONTRACTOR, OWNER, AND AHJ PRIOR TO INSTALLATION.
4. THE EXISTING SMOKE DETECTOR SHALL REMAIN AS CURRENTLY CONFIGURED. THE FIRE ALARM CONTRACTOR SHALL FIELD VERIFY THE SMOKE DETECTOR IS IN GOOD WORKING CONDITION. IF THE SMOKE DETECTOR IS NOT IN GOOD WORKING CONDITION, THE FIRE ALARM CONTRACTOR SHALL DISCONNECT THE EXISTING SMOKE DETECTOR AND MOUNT A NEW SMOKE DETECTOR ON THE BOTTOM OF THE DECK (NOT ON THE BOTTOM OF STRUCTURAL MEMBERS) AND LOCATED MORE THAN THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AS INDICATED IN NFPA 72.
5. RELOCATE THE EXISTING MANUAL PULL STATION AND ASSOCIATED POPIT TO THE NEW FRONT ENTRANCE VESTIBULE. LOCATE THE MANUAL PULL STATION DIRECTLY BELOW THE FIRE ALARM ANNUNCIATOR. PROVIDE NEW CABLING AND CONDUIT AS NEEDED TO EXTEND THE CIRCUIT FROM PREVIOUS LOCATION TO THE NEW ENTRY VESTIBULE. THE FIRE ALARM CABLING SHALL BE "FISHED" THROUGH THE MULLION FROM THE TOP OF THE VESTIBULE.
6. THE EXISTING FIRE SPRINKLER WATERFLOW SWITCHES AND TAMPER SWITCHES ARE CURRENTLY MONITORED BY THE EXISTING FIRE ALARM SYSTEM AND WILL REMAIN AS CURRENTLY CONFIGURED.
7. THE MONITORING OF THE EXISTING DUCT SMOKE DETECTOR SHALL REMAIN AS CURRENTLY CONFIGURED. IF THE DUCT SMOKE DETECTOR IS NOT IN GOOD WORKING CONDITION, THE FIRE ALARM CONTRACTOR COORDINATE WITH THE MECHANICAL CONTRACTOR TO DISCONNECT THE EXISTING DUCT SMOKE DETECTOR AND INSTALL A NEW DUCT SMOKE DETECTOR. THE NEW DUCT SMOKE DETECTOR SHALL BE MONITORED AND TRANSMIT SIGNALS AS PREVIOUS CONDITIONS.
8. PROVIDE A SIGNAL TO MUTE THE STORE BACKGROUND MUSIC SOUND SYSTEM UPON ACTIVATION OF A FIRE ALARM CONDITION. PROVIDE CABLING FROM THE FIRE ALARM CONTROL PANEL TO THE BACKGROUND MUSIC SOUND SYSTEM CONTROLLER. LOCATE THE RELAY MODULE WITHIN THREE (3) FEET FROM THE BACKGROUND MUSIC SOUND SYSTEM CONTROLLER. COORDINATE INTERFACE CONNECTIONS WITH THE SOUND SYSTEMS CONTRACTOR.
9. PROVIDE A SEPARATE BID: TO COORDINATE INSTALLATION OF A MINIMUM ONE (1) INCH UNDERGROUND CONDUIT, WITH PULL STRING, FOR FIRE ALARM CABLING CONNECTIONS TO ANY EXTERIOR BACKFLOW PREVENTER ASSOCIATED WITH THE PARTY CITY SPACE. PROVIDE MONITORING OF ALL TAMPER SWITCHES (BY OTHERS) ON THE ASSOCIATED BACKFLOW PREVENTER. COORDINATE ANY REQUIRED UNDERGROUND CONDUIT AND INTERFACE CONNECTIONS WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, FIRE SPRINKLER CONTRACTOR, AND SITE CIVIL CONTRACTOR.
10. PROVIDE A SEPARATE BID: PROVIDE TRANSIENT SUPPRESSION ON ALL FIRE ALARM CIRCUITS LOCATED IN EXTERIOR CONDUIT. PROVIDE ONE (1) TRANSIENT SUPPRESSION MODULE FOR EACH FIRE ALARM CIRCUIT. FIRE ALARM CABLING IN EXTERIOR CONDUIT SHALL BE LISTED FOR WET LOCATIONS.
11. THE EXISTING KNOX BOX IS CURRENTLY MONITORED BY THE EXISTING FIRE ALARM SYSTEM AND WILL REMAIN AS CURRENTLY CONFIGURED.
12. RELOCATE POPIT ASSOCIATED WITH THE KNOX BOX TO THE NEW FRONT ENTRANCE VESTIBULE. THE POPIT MODULE SHALL BE LOCATED INSIDE THE PARTY CITY SPACE. PROVIDE CONDUIT FOR ALL EXTERIOR CABLING. PROVIDE NEW CABLING AND CONDUIT AS NEEDED TO EXTEND THE CIRCUIT FROM PREVIOUS LOCATION TO THE ENTRY VESTIBULE COLUMN. COORDINATE ANY REQUIRED INTERFACE CONNECTIONS WITH THE OWNER'S REPRESENTATIVE, AND ELECTRICAL CONTRACTOR.
13. RELOCATE THE EXISTING WALL MOUNTED AUDIBLE/VISUAL NOTIFICATION APPLIANCE TO THE NEW FRONT ENTRANCE VESTIBULE. LOCATE THE AUDIBLE/VISUAL NOTIFICATION APPLIANCE DIRECTLY ABOVE THE FIRE ALARM ANNUNCIATOR. PROVIDE NEW CABLING AND CONDUIT AS NEEDED TO EXTEND THE CIRCUIT FROM PREVIOUS LOCATION TO THE THE NEW ENTRY VESTIBULE. THE FIRE ALARM CABLING SHALL BE "FISHED" THROUGH THE MULLION FROM THE TOP OF THE VESTIBULE.

ADD ALTERNATE

1. PROVIDE ADD ALTERNATE PRICING TO INCLUDE ELECTRONIC MONITORING OF THE NEW EXTERIOR BACKFLOW PREVENTER. SEE KEYED NOTES 9 AND 10 FOR MORE INFORMATION.

FIRE ALARM SYMBOL KEY

		QTY.
FACP	EXISTING FIRE ALARM CONTROL PANEL (BOSCH 9412GV4)	
FAAN	EXISTING FIRE ALARM ANNUNCIATOR (BOSCH D1256)	
CC	EXISTING CELLULAR COMMUNICATOR (DMP UNIVERSAL FIRE COMMUNICATOR (12V)	
DOC	EXISTING DOCUMENTATION CABINET (RED ENCLOSURE)	
P	EXISTING MANUAL PULL STATION (EDWARDS SIGNALS 270-SPO)	
S	EXISTING SMOKE DETECTOR (SYSTEM SENSOR 2W-B)	
D_S	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (S = SUPPLY SIDE)	
P_{XX}	EXISTING POINT OF PROTECTION INPUT TRANSPONDER (POPIT) (BOSCH D9127T) (XX = POPIT POINT ADDRESS)	
P_{XX}	NEW POINT OF PROTECTION INPUT TRANSPONDER (POPIT) (BOSCH D9127T) (XX = POPIT POINT ADDRESS)	1
R	NEW RELAY MODULE (BOSCH D130)	1
FS	EXISTING FLOW SWITCH	
TS	EXISTING TAMPER SWITCH	
TS	NEW TAMPER SWITCH (BY OTHERS)	2
TSM	NEW TRANSIENT SUPPRESSION MODULE (DITEK DTK-1LVLP-X)	1
AV XX	EXISTING WALL MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (WHEELOCK AS-12157SW-FR)	
	FIRE ALARM CONDUCTORS (MATCH EXISTING)	
	NEW FIRE ALARM CONDUCTORS LISTED FOR WET LOCATION IN UNDERGROUND CONDUIT (1 INCH MINIMUM)	
	NEW FIRE ALARM CONDUCTORS LISTED FOR WET LOCATION IN EXTERIOR CONDUIT (1 INCH MINIMUM)	
J	JUNCTION BOX	
	END OF LINE RESISTOR	

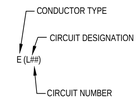
WIRING LEGEND

CONDUCTOR TYPE:

D = 14/4 TP FPLP SHIELDED
E = 18/2 TP FPLP
F = 14/2 TP FPLP
G = AS REQ'D BY MANF.
J = 18/2 WET LOCATION

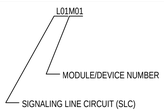
CIRCUIT DESIGNATION:

L = INITIATION DATA CIRCUIT
AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT
AN = ANNUNCIATOR CIRCUIT
RT = REMOTE TEST STATION POWER
SY = MULTIPLE SYNC CONNECTION
SU = SUPERVISORY ZONE CIRCUIT
SPARE - SPARE CIRCUIT



SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE A DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.

ADDRESSING LEGEND



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BID SET

09/05/17

PERMIT ISSUE DATE 09/05/17

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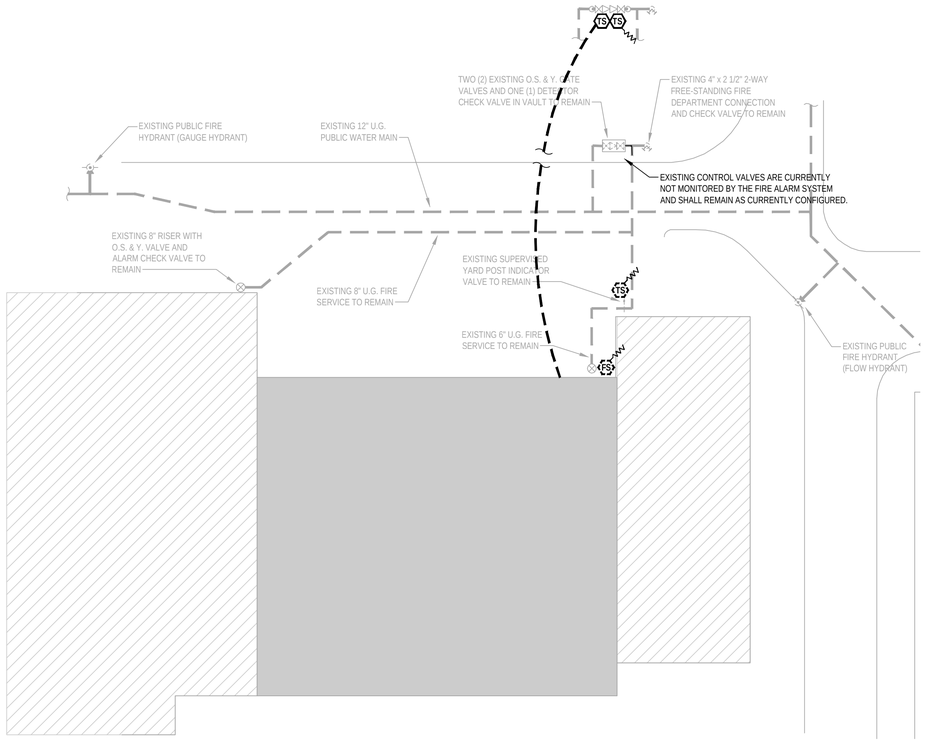
PROTO NO.	1703
PROJECT NO.	170744.07
DRAWN BY	JLS
APPV'D BY	PTK

SHEET TITLE
FIRE ALARM PLAN - NEW WORK

SHEET NO.
FA1.1



SITE FIRE ALARM PLAN

SCALE: 1" = 30'-0"

GENERAL NOTES

1. THE EXISTING FIRE ALARM SYSTEM INSTALLED THROUGHOUT THE PARTY CITY AND ADJACENT TENANT SPACES SHALL REMAIN AS CURRENTLY CONFIGURED UNLESS NOTED OTHERWISE ON THE ENGINEERING DRAWINGS. ANY NEW FIRE ALARM SYSTEM COMPONENTS ASSOCIATED WITH THE PARTY CITY SHALL BE AN EXTENSION OF THE EXISTING BOSCH FIRE ALARM SYSTEM.
2. THE FIRE ALARM SYSTEM SHALL OPERATE AS A STANDALONE LOW VOLTAGE SYSTEM AND SHALL BE AN INTELLIGENT ADDRESSABLE SUPERVISED SYSTEM. CIRCUITS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   - INITIATION DEVICE CIRCUITS (IDC) - CLASS B
   - SIGNALING LINE CIRCUITS (SLC) - CLASS B
   - NOTIFICATION APPLIANCE CIRCUITS (NAC) - CLASS B
   - CIRCUITS FOR RELAY COIL OPERATION SHALL BE 24 VDC MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE.
3. THE INSTALLING FIRE ALARM CONTRACTOR WILL FIELD VERIFY EXISTING FIRE ALARM CONTROL PANEL (FACP) HAS SUFFICIENT STANDBY SECONDARY BATTERY CAPACITY TO ACCOMMODATE THE NEW FIRE ALARM EQUIPMENT. IF ADEQUATE SECONDARY BATTERY CAPACITY IS NOT PROVIDED, CONTRACTOR WILL PROVIDE LARGER BATTERIES WITHOUT EXCEEDING EXISTING FACP MANUFACTURERS CHARGING CAPABILITIES. BATTERY CABINET WILL BE PROVIDED AS NEEDED.
7. COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDING OF THE FACP AND EACH APS WITH THE ELECTRICAL CONTRACTOR.
8. THE EXISTING FIRE SPRINKLER WATERFLOW SWITCHES AND TAMPER SWITCHES ARE CURRENTLY MONITORED BY THE EXISTING FIRE ALARM SYSTEM AND WILL REMAIN AS CURRENTLY CONFIGURED.
9. PROVIDE MONITORING CONNECTIONS TO ANY NEW SPRINKLER WATERFLOW SWITCHES AND TAMPER SWITCHES (SWITCHES ARE BY OTHERS). PROVIDE ALL CABLING TO SWITCHES, FINAL WIRING CONNECTIONS AT SWITCHES, AND SUPERVISION OF ALL WIRING CONNECTIONS. COORDINATE ALL CONNECTIONS WITH THE SPRINKLER CONTRACTOR.
10. DEVICES AND APPLIANCE LOCATIONS AS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR EXACT INSTALLATION. COORDINATE EXACT PLACEMENT OF ALL DEVICES AND APPLIANCES WITH THE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
11. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES' WORK.
12. IF A NEW SMOKE DETECTOR IS INSTALLED, MOUNT SMOKE DETECTORS AT THE CEILING/DECK, AND NOT ON THE BOTTOM OF BEAMS OR JOISTS. LOCATE ALL SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AND AS REQUIRED BY NFPA 72. COORDINATE SMOKE DETECTOR LOCATIONS WITH LIGHTING, MECHANICAL, SPRINKLER AND BACKGROUND MUSIC EQUIPMENT.
13. IF A NEW SMOKE DETECTOR IS INSTALLED, THE SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL.
14. ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
15. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR SERVICE. PROVIDE ANY REQUIRED ACCESS PANELS.
16. NOTIFICATION APPLIANCE CIRCUITS (NAC) HAVE BEEN DESIGNED FOR A MAXIMUM 1.6 AMPS, MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC. SEE FIRE ALARM NAC VOLTAGE DROP CALCULATIONS ON THIS SHEET.
17. ALL AUDIBLE APPLIANCES SHALL BE SET TO THE HIGH DBA SETTING AND SHALL SOUND A THREE-PULSE TEMPORAL PATTERN EVACUATION SIGNAL.
18. THE EXISTING AUDIBLE/VISUAL AND VISUAL NOTIFICATION APPLIANCE SHALL BE KEPT IN GOOD WORKING CONDITION AND REINSTALLED WITHIN THE PARTY CITY.
19. NOTIFICATION APPLIANCE POLARITY SHALL BE OBSERVED.
20. WHERE POSSIBLE, PROVIDE FLUSH MOUNTING OF NOTIFICATION APPLIANCES. WHERE SURFACE-MOUNTED NOTIFICATION APPLIANCES ARE NECESSARY, PROVIDE DECORATIVE BACKBOX SKIRT COVERING THE APPLIANCE BACKBOX.
21. DEVICES AND APPLIANCE LOCATIONS AS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR EXACT INSTALLATION. COORDINATE EXACT PLACEMENT OF ALL DEVICES AND APPLIANCES WITH THE ARCHITECTURAL PLANS, APPLICABLE TRADES, AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
22. PROVIDE ANY REQUIRED SEISMIC BRACING FOR ALL FIRE ALARM SYSTEM DEVICES, CONDUIT AND BACKBOXES.
23. ALL SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72.

INSTALLATION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND ALL LOCAL ADOPTED CODES.
2. FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE. SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.
3. ALL FIRE ALARM CABLING SHALL BE FPL, FPLR OR FPLP AS REQUIRED BY THE ELECTRICAL CODE. SEE WIRING LEGEND FOR CABLE TYPES AND SIZES.
4. PROVIDE ALL REQUIRED CONDUIT, BACKBOXES, AND FITTINGS FOR THE FIRE ALARM SYSTEM CABLING.
5. THE COLOR OF THE FIRE ALARM CABLING SHALL MATCH THE EXISTING CABLING ALL READY INSTALLED.
6. FIRE ALARM CABLING SHALL NOT BE PAINTED.
7. CABLE ROUTING SHOWN ON DRAWINGS IS FOR INTENT. EXACT ROUTING SHALL BE COORDINATED WITH OTHER TRADES IN THE FIELD. SEE DRAWING NOTES AND DETAILS FOR ACCEPTABLE INSTALLATION METHODS.
8. ALL CABLE RUNS SHALL BE NEATLY BUNDLED, WRAPPED TIGHT AND PROPERLY SECURED. ANY CABLING NOT INSTALLED IN A NEAT AND PROFESSIONAL MANNER SHALL BE PULLED OUT AND RE-RUN BY INSTALLER AT NO ADDITIONAL COST TO OWNER.
9. CONTRACTOR RUNNING CABLING MUST MARK BOTH ENDS OF CABLING, PROVIDE A WIRE LEGEND FOR ALL LOCATIONS, AND PROVIDE A CONTINUITY TEST LOG FOR EACH CABLE.
10. EXPOSED CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. EXPOSED CABLING SHALL NOT BE RUN IN A "SPAN" FASHION BETWEEN BAR JOISTS OR BEAMS (I.E.: CABLING SHALL BE ROUTED ALONG PATH OF JOISTS AND BEAMS). ALL CABLING SHALL BE SECURED TO THE STRUCTURAL CEILING BETWEEN JOISTS OR BEAMS.
11. ALL CABLING SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM GRID, TILES, OR SUPPORT WIRES. EXPOSED CABLING SHALL BE SUPPORTED BY BUILDING STRUCTURE AT NO MORE THAN FIVE (5) FOOT INTERVALS.
12. ALL FIRE ALARM CABLING BELOW THE STRUCTURE, IN ELECTRICAL AND MECHANICAL ROOMS (SUBJECT TO PHYSICAL DAMAGE), CONCEALED ABOVE CEILINGS OR IN PARTITIONS (SUBJECT TO PHYSICAL DAMAGE) SHALL BE INSTALLED IN METALLIC CONDUIT.
13. ALL POWER LIMITED FIRE ALARM CABLING ABOVE THE STRUCTURE, ABOVE LAY-IN CEILINGS, OR CONCEALED ABOVE CEILINGS OR IN PARTITIONS (NOT SUBJECT TO PHYSICAL DAMAGE) ARE NOT REQUIRED TO BE INSTALLED IN CONDUIT.
14. ALL NON-POWER LIMITED FIRE ALARM CABLING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT.
15. ALL CONDUIT SHALL BE TERMINATED AT THE BAR JOIST LEVEL WITH SOME FORM OF GROMMET OR BOX CONNECTOR.
16. ALL CONDUIT LOCATED IN DRYWALL SHALL BE TERMINATED NO LESS THAN SIX (6) INCHES ABOVE THE CEILING TILE.
17. FOR DRYWALL APPLICATIONS, ALL CONDUIT AND BACKBOXES SHALL BE RECESSED INSIDE THE WALL.
18. ALL FIRE ALARM CABLING IN FINISHED AREAS SHALL BE CONCEALED.
19. COORDINATE DRILLING OF ANY HOLES (I.E. COLUMN PENETRATIONS) WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES PRIOR TO INSTALLATION.
20. ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX.
21. ALL CABLING, CONDUIT, AND BACKBOXES SHALL BE PROPERLY SUPPORTED AND SEISMICALLY BRACED, AS REQUIRED BY ALL APPLICABLE CODES AND THE LOCAL JURISDICTION.
22. CONDUIT AND CABLING SHALL ENTER INTO THE FACP AND EACH APS ONLY AS APPROVED BY THE EQUIPMENT MANUFACTURER.
23. CONDUIT FILL SHALL NOT EXCEED 40%.
24. ALL FIRE ALARM JUNCTION BOXES SHALL BE RED IN COLOR.

PROJECT INFORMATION

PROJECT NAME:	PARTY CITY - CHINO, CALIFORNIA
LOCATION:	3850 GRAND AVE CHINO, CA 91710
FIRE PROTECTION:	100% SPRINKLERED
OCCUPANCY:	MERCANTILE
AREA OF WORK:	20,091 SQ. FT.
OCCUPANT LOAD:	224 OCCUPANTS
SYSTEM TYPE:	PROTECTED PREMISE FIRE ALARM SYSTEM WITH CENTRAL STATION SERVICE

APPLICABLE CODES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

2016 CALIFORNIA BUILDING CODE

2016 CALIFORNIA FIRE CODE

2016 CALIFORNIA MECHANICAL CODE

2016 CALIFORNIA ELECTRICAL CODE

2016 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE WITH CALIFORNIA STATE AMENDMENTS

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF FIRE PROTECTION ENGINEER (CCI) FOR RESOLUTION.

GENERAL PROGRAMMING NOTES

1. CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN SHOP DRAWING SUBMITTAL.
2. COORDINATE SPECIFIC ALPHANUMERIC DESCRIPTIONS WITH THE OWNER PRIOR TO SYSTEM PROGRAMMING.

FIRESTOP NOTES

1. ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
2. FIRE-RATED GYPSUM BOARD WALLS CONSTRUCTED AS DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY (GENERALLY DOUBLE THICKNESS WALLBOARD) SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.
3. ALL REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOORS OR WALLS, AND ALL U.L. CLASSIFIED CONCRETE BLOCK WALLS SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.

SPRINKLER NOTE

1. THE PARTY CITY SPACE WILL BE FULLY SPRINKLERED. THE SPRINKLER SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH NFPA 13.

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09/05/17

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PROTO NO. 1703

PROJECT NO. 170744.07

DRAWN BY JLS

APP'D BY PTK

SHEET TITLE
FIRE ALARM NOTES AND SITE PLAN

SHEET NO.
FA1.2

FIRE ALARM MATRIX

	ACTUATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES ALARM CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR PANEL	TRANSMITS ALARM SIGNAL TO APPROVED U.L. LISTED CENTRAL MONITORING STATION	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES SUPERVISORY CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR PANEL	TRANSMITS SUPERVISORY SIGNAL TO APPROVED U.L. LISTED CENTRAL MONITORING STATION	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES TROUBLE CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR PANEL	TRANSMITS TROUBLE SIGNAL TO APPROVED U.L. LISTED CENTRAL MONITORING STATION	ACTIVATES INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE FACILITY AND ADJACENT TENANT SPACES	ACTIVATES EXTERIOR NOTIFICATION APPLIANCE	SHUTS DOWN AFFECTED HVAC UNITS	SHUTS DOWN MUA/AHU SYSTEMS
FIRE SPRINKLER SYSTEMS													
- WATERFLOW SWITCH	●	●	●							●	●		●
- CONTROL VALVE TAMPER SWITCH				●	●	●							
MANUAL PULL STATION	●	●	●							●	●		●
SMOKE DETECTION DEVICES													
- ABOVE FACP	●	●	●							●	●		●
- AIR HANDLING UNIT - SUPPLY				●	●	●						●	
KNOX BOX TAMPER SWITCHES				●	●	●							
LOSS OF PRIMARY POWER AT THE FACP AND CELLULAR COMMUNICATOR							●	●	●				
ABNORMAL CIRCUIT OR DEVICE							●	●	●				

ON-BOARD POPIT MODULES LISTING

PANEL POPITS	ALPHANUMERIC LABEL
PT01	SPARE
PT02	SPARE
PT03	SPARE
PT04	SPARE
PT05	SPARE
PT06	SPARE
PT07	EXTERIOR BELL CIRCUIT TROUBLE
PT08	SPARE

FIRE ALARM POPEX MODULE LISTING

POPIT ADDRESS	ALPHANUMERIC LABEL OF DEVICE
PT09	SPARE
PT10	SMOKE DETECTOR ABOVE FACP
PT11	MANUAL PULL STATION @ SUITE 3850 ENTRY LOBBY
PT12	WATERFLOW @ BACK OF BUILDING
PT13	PIV @ BACK OF BUILDING
PT14	KNOX BOX @ SUITE 3850 ENTRY
PT15	DUCT DETECTOR @ AC-1 3860 SUITE C
PT16	DUCT DETECTOR @ AC-2 3860 SUITE B
PT17	SPARE
PT18	SPARE
PT19	DUCT DETECTOR @ AC-5 3850
PT20	DUCT DETECTOR @ AC-6 3850
PT21	DUCT DETECTOR @ AC-7 3850
PT22	DUCT DETECTOR @ AC-8 3850
PT23	DUCT DETECTOR @ AC-9 3850
PT24	DUCT DETECTOR @ AC-10 3850
PT25	SPARE
PT26	MANUAL PULL STATION @ 3860 SUITE C ENTRY LOBBY
PT27	MANUAL PULL STATION @ 3860 SUITE B ENTRY LOBBY
PT28	MANUAL PULL STATION @ 3860 SUITE A ENTRY LOBBY
PT29	KNOX BOX @ OUTSIDE SUITE 3860 SUITE A
PT30	SPARE
PT31	DUCT DETECTOR @ 3860 SUITE A
PT32	SPARE
PT33	SPARE
PT34	NEW EXTERIOR BACKFLOW PREVENTER
PT35	SPARE
PT36	SPARE
PT37	SPARE
PT38	SPARE
PT39	SPARE
PT40	SPARE
PT41	SPARE
PT42	SPARE
PT43	SPARE
PT44	SPARE
PT45	SPARE
PT46	SPARE
PT47	SPARE
PT48	SPARE
PT49	SPARE
PT50	SPARE
PT51	SPARE
PT52	SPARE
PT53	SPARE
PT54	SPARE
PT55	SPARE
PT56	SPARE
PT57	SPARE
PT58	SPARE
PT59	SPARE
PT60	SPARE
THRU	
PT99	SPARE

FIRE ALARM CONTROL PANEL BATTERY CALCULATIONS (BOSCH D9412GV4 - 12 VDC)

			STANDBY POWER		IN ALARM			
MODEL NUMBER	DESCRIPTION	QUANTITY	CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)	CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)	STANDBY BATTERIES (12-VOLT)	CURRENT (mA)
D9412GV4	FIRE ALARM CONTROL PANEL	1	225	225	300	300		
D125B	DUAL INITIATING MODULE	1	12	12	75	75	STANDBY CURRENT	451.25
D1256RB	ANNUNCIATOR	1	104	104	225	225	HOURS	24
D192G	INDICATING CIRCUIT MODULE	1	35	35	100	100	STANDBY mAH	10,830
D8125	POPEX MODULE	1	50	50	50	50	ALARM CURRENT	1,365.2
D9127T	POPIT MODULE	19	0.8	15.2	0.8	15.2	HOURS	0.083
MDL3	SYNC CIRCUIT MODULE	1	10	10	50	50	ALARM mAH	113
ZW-8	SMOKE DETECTOR	1	0.05	0.05	130	130	TOTAL mAH	10,943
AS-121575W-FR	NOTIFICATION APPLIANCES	1	0	0	360	360	TOTAL AH	10.9
D130	RELAY MODULE	1	0	0	60	60	CONTINGENCY	20%
							BATTERY TOTAL (AH)	13.2
TOTAL				451.25		1,365.2	BATTERY PROVIDED (AH)	18.0

NOTES:

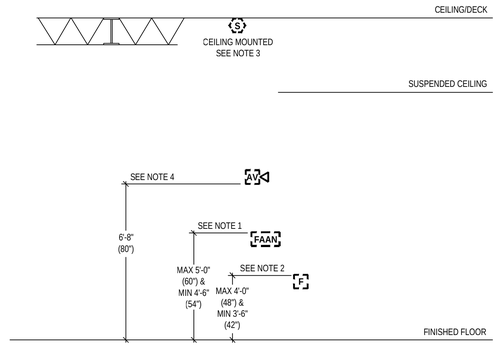
1. PROVIDE ONE (1) 12 VOLT 18 AH BATTERY.
2. BATTERY SHALL BE INSTALLED IN THE FIRE ALARM CONTROL PANEL CABINET.
3. BATTERY CALCULATIONS WERE BASED ON THE AS-BUILT DRAWINGS DATED 01/27/17 AND INCLUDES NEW FIRE ALARM EQUIPMENT.

FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATIONS

SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	ACTUAL ALARM CURRENT (AMPS)	MAXIMUM DISTANCE TO LAST APPLIANCE	
			12 AWG CABLING (FEET)	14 AWG CABLING (FEET)
FACP	LOCATION OF FACP / APS			
AV01	INTERIOR A/V AT EACH MAIN ENTRANCE	0.360	3,166	1,991

NOTES:

1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.6 AMPS, MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.
3. NOTIFICATION APPLIANCE CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CURRENT AND VOLTAGE CRITERIA USING WHEELOCK NOTIFICATION APPLIANCE CRITERIA.

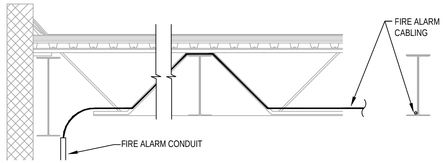


NOTES:

1. COORDINATE EXACT MOUNTING HEIGHT OF ANNUNCIATORS WITH THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND AHJ PRIOR TO INSTALLATION.
2. MEASURED TO THE OPERABLE PART OF THE PULL STATION.
3. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED NOTIFICATION APPLIANCES ON BOTTOM OF BEAMS OR JOISTS; WITH CLEAR LINE OF SITE IN ALL DIRECTIONS; AND AS INDICATED IN NFPA 72.
4. WHERE INDICATED ON THE DRAWINGS - MEASURED TO THE BOTTOM OF THE LENS.

TYPICAL MOUNTING HEIGHT DETAIL

NOT TO SCALE

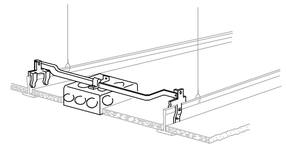


NOTES:

1. ALL OPEN FIRE ALARM CABLING SHALL BE CONCEALED FROM PUBLIC VIEW.

OPEN FIRE ALARM CABLING DETAIL

NOT TO SCALE

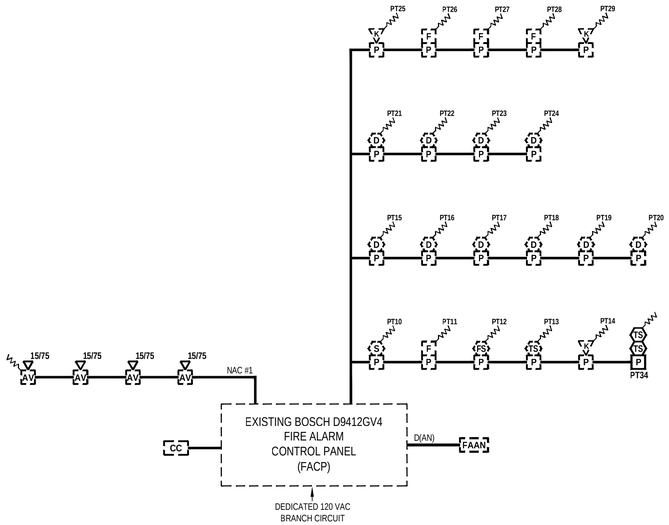


NOTES:

1. DEVICES AND APPLIANCES SHALL NOT BE SUPPORTED BY CEILING TILES.
2. DEVICES AND APPLIANCES MUST BE ATTACHED TO A MANUFACTURE APPROVED BACKBOX SUPPORTED BY THE CEILING GRID UTILIZING AN APPROPRIATE SUPPORT BAR.
3. THE CEILING MOUNTED DEVICES AND APPLIANCES SHALL BE INSTALLED ALIGNED AESTHETICALLY WITH THE CEILING LIGHTING, SPRINKLERS, AND OTHER FIXTURES AS SHOWN ON FLOOR PLANS.
4. DETECTORS SHALL BE LOCATED MORE THAN THREE (3) FEET FROM AIR SUPPLY DIFFUSERS OR RETURN AIR OPENINGS AS INDICATED IN NFPA 72.

JUNCTION BOX MOUNTING DETAIL

NOT TO SCALE



NOTES:

1. THE EXISTING FIRE ALARM EQUIPMENT IS BASED ON AS-BUILT DRAWINGS DATED 01/27/17. EXACT LOCATION OF FIRE ALARM EQUIPMENT MAY VERY IN THE FIELD.

FIRE ALARM RISER DIAGRAM

NOT TO SCALE

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SHEET TITLE
FIRE ALARM MATRIX, PROGRAMMING, CALCULATIONS & DETAILS

SHEET NO.
FA1.3

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. CONDITIONS OF THE CONTRACT, DRAWINGS, GENERAL AND SUPPLEMENTRY CONDUTIONS APPLY TO THE WORK OF THIS SECTION. / DRAWINGS.

1.02 SUMMARY

A. PROVIDE ALL REQUIRED LABOR, WARRANTY LABOR, MATERIALS, EQUIPMENT, SYSTEM PROGRAMMING, TESTING, SUBMITTALS AND SERVICES NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM AS HEREINAFTER DESCRIBED, AND AS SHOWN ON THE ENGINEERING DRAWINGS.

B. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. ADDRESSABLE FIRE ALARM CONTROL PANELS
2. DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT)
3. CIRCUITS
4. DETECTION DEVICES
5. MANUAL PULL STATIONS
6. ADDRESSABLE INTERFACE MODULES
7. NOTIFICATION APPLIANCES
8. ALARM VERIFICATION
9. HVAC SHUTDOWN
10. REMOTE ANNUNCIATOR

C. PROVIDE A MINIMUM OF ONE (1) HOUR TRAINING, FOR STAFF PERSONNEL, IN THE OPERATION AND USE OF THE SYSTEM.

D. IT IS INTENDED THAT THE ENGINEERING DRAWINGS AND SPECIFICATIONS SHALL DESCRIBE AND PROVIDE FOR A WORKING INSTALLATION COMPLETE IN EVERY DETAIL AND ALL ITEMS NECESSARY FOR SUCH COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE ENGINEERING DRAWINGS.

E. PROVIDE SUFFICIENT LABOR FOR ONE (1) COMPLETE SYSTEM REPROGRAMMING. THIS ALLOTTED REPROGRAMMING TIME SHALL BE CONDUCTED FOR CHANGES AFTER PROJECT CONDITIONS, SYSTEM INTERCONNECTIONS, AND REQUIRED TEXT ARE FINALIZED AND REVIEWED BY THE ENGINEER. PROVIDE UNIT PRICING FOR EACH ADDITIONAL REPROGRAMMING.

1.03 REFERENCES

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

B. IF THERE IS A CONFLICT BETWEEN THE APPLICABLE CODES, REFERENCED DESIGN STANDARDS, OR LOCAL AMENDMENTS AND THIS SPECIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY BRING THE CONFLICT TO THE ENGINEER FOR RESOLUTION.

1.04 SYSTEM DESCRIPTION

A. THE SYSTEM SHALL OPERATE AS A LOW VOLTAGE FIRE ALARM SYSTEM AND SHALL BE A COMPLETE INTELLIGENT ADDRESSABLE SUPERVISED FIRE ALARM SYSTEM AS HEREINAFTER SPECIFIED. INITIATING DEVICE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B. NOTIFICATION APPLIANCE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B. SIGNALING LINE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B. AUXILIARY CIRCUITS, WHERE NOT INSTALLED AS SIGNALING LINE CIRCUITS, SHALL MEET THE MINIMUM REQUIREMENTS OF A CLASS B NOTIFICATION APPLIANCE CIRCUIT. CIRCUITS FOR RELAY COIL OPERATION SHALL BE 24 VOLT MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE.

B. THE CONTROL PANELS SHALL RECEIVE THEIR POWER FROM 120 VOLT AC DEDICATED BRANCH CIRCUITS. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS “FIRE ALARM CIRCUIT”. THE 24 VOLT DC POWER FOR ALL SYSTEM INITIATION, SUPERVISORY, NOTIFICATION AND CONTROL CIRCUITS SHALL BE PROVIDED BY THE FIRE ALARM CONTROL PANEL POWER SUPPLIES.

C. UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES OF EVACUATION ALARM OPERATION AT MAXIMUM CONNECTED LOAD.

E. UPON LOSS OF PRIMARY POWER TO THE CONTROL PANELS, OR ACTIVATION OF THE FIRE ALARM SYSTEM, ALL LOCKED EXIT DOORS SHALL AUTOMATICALLY BE UNLOCKED.

F. SYSTEM OPERATION SHALL BE AS FOLLOWS:

1. ABNORMAL CIRCUIT CONDITIONS OR DEVICES, AS REQUIRED FOR THE CLASS OF THE CIRCUIT, SHALL INITIATE A "TROUBLE" CONDITION AT THE CONTROL PANELS AND REMOTE ANNUNCIATORS FOR THAT SPECIFIC CIRCUIT OR DEVICE. THE “TROUBLE” INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION ON THE AFFECTED CIRCUIT OR DEVICE. THE FIRE ALARM SYSTEM SHALL TRANSMIT A POINT SPECIFIC "TROUBLE" CONDITION TO AN APPROVED UL CENTRAL STATION AS CURRENTLY CONFIGURED.

2. ACTIVATION OF ANY SUPERVISORY DEVICE AS INDICATED ON THE ENGINEERING DRAWINGS SHALL INITIATE A "SUPERVISORY" CONDITION AT THE CONTROL PANELS AND REMOTE ANNUNCIATORS FOR THAT SPECIFIC DEVICE. THE "SUPERVISORY" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION AND SPECIFIC ADDRESS AND ALPHANUMERIC DESCRIPTION OF THE DEVICE AFFECTED. THE FIRE ALARM SYSTEM SHALL TRANSMIT A POINT SPECIFIC "SUPERVISORY" CONDITION TO AN APPROVED UL CENTRAL STATION AS CURRENTLY CONFIGURED.

3. ACTIVATION OF ANY ALARM DEVICE AS INDICATED ON THE ENGINEERING DRAWINGS SHALL INITIATE AN "ALARM" CONDITION AT THE CONTROL PANELS AND REMOTE ANNUNCIATORS FOR THAT SPECIFIC DEVICE. THE "ALARM" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION AND SPECIFIC ADDRESS AND ALPHANUMERIC DESCRIPTION OF THE DEVICE AFFECTED. THE FIRE ALARM SYSTEM SHALL TRANSMIT A POINT SPECIFIC “ALARM” CONDITION TO AN APPROVED UL CENTRAL STATION AS CURRENTLY CONFIGURED.

4. INITIATION OF AN "ALARM" CONDITION SHALL RESULT IN THE FOLLOWING FUNCTIONS TO BE PERFORMED BY THE SYSTEM:

A. INITIATE AN ALARM INDICATION ON THE CONTROL PANEL BY TONE AND ILLUMINATE THE CORRESPONDING DEVICE SPECIFIC ALPHANUMERIC LCD DESCRIPTION. MANUALLY ACTIVATING THE "ALARM SILENCE" SHALL SILENCE THE TONE AT THE PANEL. THE ALARM ALPHANUMERIC DISPLAY SHALL REMAIN "ON" AT THE CONTROL PANEL UNTIL THE CONDITION CAUSING THE ALARM HAS BEEN CLEARED AND RESET. AN ADDITIONAL ALARM REPORTED TO THE PANEL SUBSEQUENT TO ACTIVATING THE "ALARM SILENCE" SHALL REACTIVATE THE CONTROL PANEL TONE.

B. ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING.

C. TRANSMIT A GENERAL “ALARM” SIGNAL TO THE APPROVED REMOTE MONITORING STATION.

5. ACTUATION OF ALARM NOTIFICATION APPLIANCES, FIRE SAFETY FUNCTIONS, AND ANNUNCIATION AT THE PROTECTED PREMISES SHALL OCCUR WITHIN TEN (10) SECONDS AFTER THE ACTIVATION OF AN INITIATING DEVICE.

1.05 QUALITY ASSURANCE

A. ALL WORK SHALL MEET THE REQUIREMENTS OF THE OWNER, ARCHITECT, ENGINEER AND AUTHORITY HAVING JURISDICTION (AHJ).

B. ALL EQUIPMENT AND COMPONENTS SHALL BE UL LISTED FOR THE ACTUAL INTENDED USE, UNLESS HEREINAFTER SPECIFICALLY EXCLUDED FROM SUCH A LISTING.

C. INSTALLATION AND SUPERVISION OF INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE REGULATIONS, LICENSES, AND PERMITS FOR FIRE ALARM SYSTEM INSTALLERS IN THIS JURISDICTION.

D. INSTALLER MUST HAVE BEEN ACTIVELY ENGAGED IN THE BUSINESS OF SELLING, INSTALLING, AND SERVICING FIRE ALARM SYSTEMS FOR AT LEAST FIVE (5) YEARS.

E. INSTALLER MUST BE AN AUTHORIZED REPRESENTATIVE OF THE FIRE ALARM EQUIPMENT MANUFACTURER (FAEM) AND HAVE TECHNICAL FACTORY TRAINING SPECIFICALLY FOR THE SYSTEM PROPOSED.

F. THE FAEM SHALL HAVE A REPRESENTATIVE SUPERVISE THE FINAL CONNECTION OF DEVICES, WIRING, AND PROGRAMMING OF THE CONTROL PANELS. THE FAEM REPRESENTATIVE SHALL BE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) CERTIFIED AS LEVEL II OR HIGHER FIRE ALARM PROTECTION / FIRE ALARM SYSTEMS ENGINEERING TECHNICIAN.

1.06 REGULATORY REQUIREMENTS

A. ALL WORK SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

B. NO APPROVALS OR INTERPRETATIONS OF THE DESIGN DOCUMENTS SHALL BE PURSUED EXCEPT THROUGH THE ENGINEER.

C. ANY WORK PERFORMED PRIOR TO THE SATISFACTORY REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER, APPROVAL BY THE AHJ, AND DETERMINED TO BE NONCOMPLIANT WITH THE CONTRACT DOCUMENTS OR APPLICABLE CODES BY THE OWNER OR AHJ WILL BE REPLACED AT THE CONTRACTORS' EXPENSE.

D. THE SYSTEM WILL NOT BE ACCEPTABLE UNTIL FINAL TESTING AND RECEIPT OF THE INSPECTION AND TESTING FORM HAS BEEN OBTAINED.

1.07 SUBMITTALS

A. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THESE DOCUMENTS WILL BE MADE AVAILABLE EITHER IN ELECTRONIC OR HARD COPY FORM. UTILIZATION OF THESE DOCUMENTS FOR THE DEVELOPMENT OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITIES REQUIRED HEREIN.

B. IN THE SUBMITTALS, THE CONTRACTOR MUST CLEARLY IDENTIFY ALL AREAS AND SECTIONS OF THIS SPECIFICATION TO WHICH THEY TAKE EXCEPTION OR ARE NOT CAPABLE OF PROVIDING.

C. SUBMITTALS WILL BE DISAPPROVED UNLESS REQUIRED EQUIPMENT LITERATURE, CALCULATIONS, AND COMPLETE SHOP DRAWINGS ARE SUBMITTED TOGETHER AS ONE PACKAGE FOR REVIEW.

D. THE ENGINEER SHALL REVIEW THE CONTRACTOR'S SUBMITTALS TO VERIFY CONFORMANCE TO THE PROJECT SPECIFICATIONS AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF SUCH SUBMITTALS IS NOT CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF DETAILS AND DIMENSIONS, OR SUBSTANTIATING INSTALLATION OR PERFORMANCE OF EQUIPMENT AND SYSTEMS DESIGNED BY THE CONTRACTOR, ALL OF WHICH REMAIN THE CONTRACTOR'S RESPONSIBILITY TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OF CONSTRUCTION, MEANS, METHODS, TECHNIQUES, SEQUENCES OF PROCEDURES, OR APPROVAL OF A SPECIFIC ASSEMBLY.

E. PRIOR TO RELEASE OF EQUIPMENT FOR SHIPMENT OR INSTALLATION, SUBMIT TO THE ENGINEER THE FOLLOWING:

1. SHOP DRAWINGS. THE SPECIFIC QUANTITY TO BE SUBMITTED SHALL BE CONFIRMED WITH THE GENERAL CONTRACTOR AND OWNER. ELECTRONIC SUBMITTALS ARE ACCEPTABLE. SUBMITTAL MUST BE COMPREHENSIVE OF THE ENTIRE PROJECT, COMPLETE IN ALL DETAIL, AND INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

A. FLOOR PLANS SHOWING EQUIPMENT PLACEMENT, POINT TO POINT WIRING, WIRING TYPES AND SIZES, CONDUIT TYPES AND SIZES, WIRING AND RACEWAY ROUTES, AND PROPOSED MOUNTING METHODS FOR CONDUIT AND BACKBOXES. FLOOR PLANS SHALL BE AUTOCAD GENERATED.

B. SEQUENCE OF OPERATIONS IN MATRIX FORM TO INCLUDE A DETAILED DESCRIPTION OF THE OPERATION OF EACH SYSTEM FUNCTION FOR ALL POSSIBLE CONDITIONS.

C. RISER DIAGRAM SHOWING TYPICAL WIRING CONNECTIONS FOR EACH TYPE OF DEVICE AND MODULE.

D. SUPERVISORY AND ALARM CURRENT CALCULATIONS FOR PRIMARY POWER AND EMERGENCY BATTERY SIZING OF ALL CONTROL PANELS AND AUXILIARY POWER SUPPLIES.

1) BATTERY CALCULATIONS SHALL LIST THE TYPE OF DEVICES AND MODULES, QUANTITIES, AMPERAGE DRAW FOR STANDBY AND ALARM CONDITIONS FOR EACH DEVICE, THE TOTAL AMPERAGE DRAW FOR EACH PANEL, AND EACH PANEL'S BATTERY AMP/HOUR RATING.

2) THE CALCULATED LOAD SHALL BE THE DESIGN LOAD, INCLUDING ALL REQUIRED SPARE CAPACITY.

3) THE BATTERY CAPACITY USED TO MEET THE CALCULATED LOAD SHALL BE A MAXIMUM OF EIGHTY (80) PERCENT OF THE AMP/HOUR LISTED BY THE MANUFACTURER.

E. A COMPLETE LIST OF ALL PROPOSED ALPHANUMERIC DESCRIPTIONS AND THEIR ASSOCIATED POINT ADDRESS AND CIRCUIT NUMBER.

F. VOLTAGE DROP CALCULATIONS FOR ALL NOTIFICATION APPLIANCE CIRCUITS.

1) CALCULATIONS SHALL FOLLOW THE VOLTAGE DROP CALCULATION CRITERIA AS OUTLINED IN NFPA 72 AND UL 864.

2) CALCULATIONS SHALL USE THE WORST CASE OPERATING VOLTAGE OF EACH CONTROL PANEL OR POWER SUPPLY AS A STARTING VOLTAGE. THE STARTING VOLTAGE SHALL BE 20.4 VDC, UNLESS WRITTEN DOCUMENTATION IS PROVIDED CONFIRMING THAT THE SPECIFIC CONTROL PANEL OR POWER SUPPLY IS CAPABLE OF MAINTAINING A VOLTAGE HIGHER THAN 20.4 VDC.

3) CALCULATIONS SHALL USE THE LOWEST OPERATING VOLTAGE OF THE NOTIFICATION APPLIANCES AND THE ASSOCIATED INCREASED CURRENT DRAW. THE LOWEST OPERATING VOLTAGE SHALL BE THE UL STANDARD OPERATING VOLTAGE OF 16 VDC, UNLESS APPROVED OTHERWISE BY THE ENGINEER.

2. MANUFACTURER'S LITERATURE ON ALL SYSTEM EQUIPMENT. THE SPECIFIC QUANTITY TO BE SUBMITTED SHALL BE CONFIRMED WITH THE GENERAL CONTRACTOR AND OWNER. ELECTRONIC SUBMITTALS ARE ACCEPTABLE. LITERATURE WHICH IS NOT CLEARLY IDENTIFIED WILL BE REJECTED.

A. LITERATURE SHALL INCLUDE SPECIFICATION AND DESCRIPTION OF RECOMMENDED SUPPORTING METHODS, ENCLOSURES OR BOXES, AND WIRING CONNECTIONS.

B. THE EXACT COMPONENTS TO BE UTILIZED ON THIS SPECIFIC PROJECT SHALL BE INDICATED, BY HIGHLIGHTING OR ARROWS, ON EACH DATA SHEET OF THE EQUIPMENT LITERATURE.

1. QUALIFICATIONS AND AUTHORIZATION OF THE REPRESENTATIVE OF THE FAEM.

F. THE ENGINEER SHALL REVIEW FOR ACCURACY ALL SUBMITTALS REQUIRED TO BE RECEIVED BY THE ENGINEER PRIOR TO EQUIPMENT RELEASE OR INSTALLATION. THE OWNER, OWNER'S REPRESENTATIVE, OR DESIGN FIRMS RETAINED BY THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM REPLACEMENT OF EQUIPMENT OR MATERIALS NOT REVIEWED PRIOR TO INSTALLATION.

G. FORWARD TO THE ENGINEER A COPY OF THE TRANSMITTAL OF THE PERMIT APPLICATION.

H. FORWARD TO THE ENGINEER, IN WRITING, ANY COMMENTS FROM THE AHJ OR THE INSURANCE UNDERWRITER WITHIN FIVE (5) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS.

I. FORWARD TO THE ENGINEER A COPY OF THE UL CENTRAL STATION SUPERVISORY CENTER CERTIFICATE.

1.08 PROJECT RECORD DOCUMENTS

A. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON SITE AN UP-TO-DATE RECORD SET OF SATISFACTORY SHOP DRAWINGS WHICH SHALL BE MARKED TO SHOW EACH AND EVERY CHANGE MADE TO THE FIRE ALARM SYSTEM FROM THE ORIGINAL APPROVED SHOP DRAWINGS. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION TO DEVIATE FROM OR MAKE CHANGES TO THE SHOP DRAWINGS REVIEWED BY THE ENGINEER WITHOUT WRITTEN INSTRUCTIONS FROM THE ENGINEER IN EACH CASE. THIS SET OF DRAWINGS SHALL BE ISSUED ONLY AS A RECORD SET. THESE DRAWINGS SHALL BE MADE AVAILABLE TO THE OWNER, OR THE OWNER'S REPRESENTATIVE, UPON REQUEST.

B. THE CONTRACTOR SHALL CONTINUALLY DOCUMENT SOFTWARE AND PROGRAMMING CHANGES. THIS DOCUMENTATION SHALL INCLUDE:

1. A COMPLETE PRINTOUT OF THE SYSTEM PRIOR TO THE CHANGE.

2. A COMPLETE PRINTOUT OF THE SYSTEM PROGRAM SUBSEQUENT TO THE CHANGE, WITH ALL MODIFICATIONS HIGHLIGHTED.

3. A LETTER PREPARED AND SIGNED BY THE INDIVIDUAL WHO MADE THE CHANGES, DESCRIBING EACH CHANGE MADE AND THE REASON FOR THE CHANGE. THIS LETTER SHALL CERTIFY THAT THE PROGRAMMER HAS PERSONALLY REVIEWED AND COMPARED THE BEFORE AND AFTER PROGRAM PRINTOUT AND VERIFIED THE CORRECTNESS OF THE MODIFICATION(S).

4. AN EQUIVALENT MEANS PERFORMED AUTOMATICALLY IN COMPUTER SOFTWARE, WHICH VERIFIED THE RESULTS OF CHANGES MADE IS ACCEPTABLE.

C. ONCE THE FIRE ALARM SYSTEM IS PUT INTO SERVICE, IN WHOLE OR IN PART, AND THE ASSOCIATED BUILDING(S) ARE PARTIALLY OR WHOLLY OCCUPIED, NO SOFTWARE CHANGES SHALL BE PERFORMED WITHOUT PRIOR WRITTEN PERMISSION OF THE OWNER, OR OWNER'S REPRESENTATIVE.

D. ONLY A CERTIFIED MANUFACTURER'S REPRESENTATIVE TRAINED IN THE SPECIFIC PROGRAMMING SOFTWARE SHALL MAKE CHANGES TO THE FIRE ALARM SYSTEM SOFTWARE ONCE THE SYSTEM IS IN SERVICE.

E. EACH REVISION TO THE SOFTWARE SHALL BE IDENTIFIED BY A UNIQUE VERSION NUMBER AND DATE.

F. PRIOR TO FINAL PAYMENT FOR THE FIRE ALARM SYSTEM AND THE BEGINNING OF THE WARRANTY PERIOD, SUBMIT A CD ROM AND TWO (2) SETS (OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE) OF THE FOLLOWING COMPLETED PROJECT RECORD DOCUMENTS TO THE OWNER'S REPRESENTATIVE:

1. COPIES OF ALL TEST AND INSPECTION REPORTS AS REQUIRED BY THE AHJ AND NFPA 72:

A. THE RECORD OF COMPLETION FORM SHALL BE IN THE FORMAT AS OUTLINED IN NFPA 72.

B. THE INSPECTION AND TESTING FORM SHALL BE IN THE FORMAT AS OUTLINED IN NFPA 72.

1. ALL PERMITS AND LICENSES REQUIRED TO BE IN THE POSSESSION OF THE OWNER BY THE AHJ.

2. ACCURATE RECORD (AS-BUILT) DRAWINGS OF THE COMPLETE INSTALLATION TO INCLUDE, BUT NOT BE LIMITED TO, THE INFORMATION REQUIRED FOR THE SHOP DRAWINGS. RECORD DRAWINGS OF THE FLOOR PLANS SHALL BE AUTOCAD GENERATED.

3. ORIGINAL WARRANTY DOCUMENTS INCLUDING, BUT NOT LIMITED TO, THOSE OF THE FAEM. WARRANTY DOCUMENTS SHALL REFERENCE AND BE BINDING TO THE WARRANTY PROVISIONS SPECIFIED IN THE WARRANT PORTION OF THIS SPECIFICATION.

4. SUBMIT TO THE ENGINEER A COPY OF THE TRANSMITTAL TO THE OWNER'S REPRESENTATIVE FOR ALL FINAL COMPLETE PROJECT RECORD DOCUMENTS.

G. UPON COMPLETION OF CONSTRUCTION, SUBMIT TWO (2) SETS AND A CD ROM OF EQUIPMENT WARRANTIES AND TWO (2) SETS AND A CD ROM OF INSTALLATION, OPERATIONS AND MAINTENANCE INSTRUCTIONS TO THE OWNER'S REPRESENTATIVE. THIS MANUAL SHALL REFLECT THE COMPLETED INSTALLATION AND INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING INFORMATION:

1. A DETAILED NARRATIVE DESCRIPTION OF THE SYSTEMS ARCHITECTURE, INPUTS, EVACUATION SIGNALING, AUXILIARY FUNCTIONS, ANNUNCIATION, SEQUENCE OF OPERATION, EXPANSION CAPABILITY, APPLICATION CONSIDERATIONS AND LIMITATIONS.

2. A DETAILED DESCRIPTION OF ROUTINE MAINTENANCE REQUIRED OR RECOMMENDED, OR AS WOULD BE PROVIDED UNDER A MAINTENANCE CONTRACT, INCLUDING A TESTING SCHEDULE AND DETAILED MAINTENANCE INSTRUCTIONS FOR EACH TYPE OF DEVICE INSTALLED.

3. DETAILED TROUBLESHOOTING INSTRUCTIONS FOR EACH POSSIBLE TROUBLE CONDITION.

4. AN EQUIPMENT LIST/SCHEDULE DETAILING ALL EQUIPMENT AND QUANTITIES INSTALLED. THE MANUFACTURER'S PRODUCT MODEL/IDENTIFICATION NUMBER SHALL BE SHOWN NEXT TO EACH PIECE OF EQUIPMENT ON THE LIST.

5. UPDATED MANUFACTURER'S DATA SHEETS AND INSTALLATION MANUALS/INSTRUCTIONS FOR ALL EQUIPMENT INSTALLED.

6. A DETAILED DESCRIPTION OF THE OPERATION OF THE SYSTEMS, INCLUDING OPERATOR RESPONSES. COPIES OF THE APPROVED SEQUENCE OF OPERATION SHALL BE PLACED IN OR ADJACENT TO THE CONTROL PANEL.

H. A COPY OF ALL SOFTWARE DOCUMENTATION REQUIRED BY THIS SECTION SHALL BE MAINTAINED ON-SITE BY THE CONTRACTOR, IN A BINDER, ARRANGED IN CHRONOLOGICAL ORDER. THIS BINDER SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT.

1.9 WARRANTY

A. REPAIR ALL DEFECTIVE WORKMANSHIP OR REPLACE ALL DEFECTIVE MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. WORKMANSHIP OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

B. THE WARRANTY OR ANY PART OF THE WARRANTY SHALL NOT BE MADE VOID BY ANY REQUIRED OPERATION OR INSPECTION OF THE SYSTEM AFTER ACCEPTANCE DURING THE WARRANTY PERIOD. THE OWNER MAY SELECT QUALIFIED FIRMS OTHER THAN WARRANTOR TO PROVIDE REQUIRED TESTS AND INSPECTIONS. SYSTEM TESTING AND INSPECTIONS WILL BE CONDUCTED ONLY BY A DULY LICENSED COMPANY UNDER CONTRACT WITH THE OWNER TO PERFORM SCHEDULED TESTING AND INSPECTIONS AS REQUIRED BY THE AHJ. THE OWNER MAY ELECT TO HAVE A REPRESENTATIVE PRESENT AT THE SCHEDULED TESTING DURING THE WARRANTY PERIOD.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. EXISTING BOSCH D9412GV4

2.02 CONTROL PANELS

A. EXISTING FIRE ALARM CONTROL PANEL TO BE KEPT IN GOOD WORKING CONDITION AND REUSED.

2.03 FIELD DEVICES

A. MONITOR MODULES (POPIT)

1. PROVIDE ADDRESSABLE MONITOR MODULES (POPIT) WHERE REQUIRED TO INTERFACE WITH CONTACT ALARM DEVICES, OR TO CONNECT A SUPERVISED ZONE OF CONVENTIONAL INITIATING DEVICES (ANY NORMALLY OPEN DRY CONTACT DEVICE) TO AN INTELLIGENT DATA LOOP.

2. PROVIDE ADDRESS-SETTING MEANS AND STORE AN INTERNAL IDENTIFICATION CODE WHICH THE CONTROL PANEL SHALL USE TO IDENTIFY.

3. ACCEPTABLE MANUFACTURER IS BOSCH D9127U.

B. PHOTOELECTRIC SMOKE DETECTORS

1. THE EXISTING SMOKE DETECTOR SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY.

C. MANUAL PULL STATIONS

1. THE EXISTING MANUAL PULL STATION SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY.

D. AUDIBLE/VISUAL NOTIFICATION APPLIANCES - WALL MOUNTED

1. THE EXISTING AUDIBLE/VISUAL NOTIFICATION APPLIANCE SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY.

E. REMOTE ANNUNCIATORS

1. THE EXISTING FIRE ALARM ANNUNICATOR SHALL BE KEPT IN GOOD WORKING CONDITION AND BE RE-USED WITHIN PARTY CITY.

F. AUXILIARY RELAY MODULES

1. PROVIDE RELAYS FOR ALL AUXILIARY CONTROL INTERFACE. PROVIDE HEAVY DUTY TYPE RATED UP TO TEN (10) AMPS AT 24 VOLT DC. PROVIDE WITH NEMA I DUST COVER ASSEMBLY AND DPDT CONTACTS.

2. RELAYS SHALL BE MOUNTED WITHIN THREE (3) FEET OF THE CONTROLLED CIRCUIT OR DEVICE.

3. ACCEPTABLE MANUFACTURER IS BOSCH D130.

2.04 CONDUCTORS

A. INITIATION, NOTIFICATION AND AUXILIARY DEVICE CIRCUIT CONDUCTORS FOR POWER LIMITED CIRCUITS SHALL BE TYPE FPL, FPLP, OR FPLR WHERE THE SIZE OR TYPE OF CONDUCTOR HEREINAFTER SPECIFIED CONFLICTS WITH THE FAEM'S REQUIREMENTS, THE LARGER SIZE OR MORE SPECIALIZED CONDUCTOR TYPE WILL BE USED.

B. CONDUCTORS FOR ANY NON-POWER LIMITED CIRCUITS SHALL BE TYPE NPLF, NPLFP, NPLFR OR THHN.

C. CONDUCTORS FOR WET LOCATIONS SHALL BE AS FOLLOWS:

1. TYPES RHW, TW, THW, THHW, THWN, XHHW OR OTHER TYPE LISTED FOR USE IN WET LOCATIONS.
2. TYPE LISTED FOR DIRECT BURIAL.

D. ALL ELECTRICAL CHARACTERISTICS (CONDUCTOR-TO-CONDUCTOR CAPACITANCE, DC RESISTANCE, ETC.) OF THE FIRE ALARM CONDUCTORS SHALL MEET THE REQUIREMENTS OF THE SELECTED FAEM FOR THE INTENDED APPLICATION.

E. ALL FIRE ALARM CONDUCTORS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 760 OF THE NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES AND STANDARDS.

2.05 RACEWAY

A. THE FOLLOWING RACEWAY TYPES SHALL BE PERMITTED:

1. EMT CONDUIT (3/4 INCH MINIMUM).
2. RIGID CONDUIT (3/4 INCH MINIMUM).
3. NON-METALLIC CONDUIT FOR WET LOCATIONS (3/4 INCH MINIMUM).
4. SURFACE MOUNTED METALLIC RACEWAY WITH A MINIMUM SIZE EQUIVALENT TO THREE QUARTER (3/4) INCH NOMINAL CONDUIT.

B. ALL RACEWAY TYPES SHALL BE NEW. INSTALLING USED RACEWAY IS UNACCEPTABLE.

C. USING EXISTING RACEWAY IS UNACCEPTABLE WITHOUT PRIOR WRITTEN PERMISSION OF THE ENGINEER OR OWNER'S REPRESENTATIVE.

D. BOXES, SUPPORTS, AND OTHER ACCESSORIES FOR THE RACEWAY INSTALLATION SHALL BE LISTED FOR THE INTENDED APPLICATION.

PART 3 - EXECUTION

3.01 COORDINATION WITH OTHER TRADES

A. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION, ACCURATELY INTERFACE WITH RELATED SYSTEMS AND AVOID INTERFERENCES.

3.02 INSTALLATION / APPLICATION

A. FURNISH AND INSTALL ALL CONTROL WIRING, RACEWAY AND OUTLET BOXES FOR THE FIRE ALARM SYSTEM.

B. FURNISH AND INSTALL ALL BACKBOXES, EQUIPMENT AND DEVICES FOR THE FIRE ALARM SYSTEM.

1. BACKBOXES SHALL BE OF THE EXACT TYPE RECOMMENDED BY THE FAEM AS SHOWN ON THE EQUIPMENT AND DEVICE SUBMITTALS.

2. BACKBOXES SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

3. DEVICES AND EQUIPMENT MUST BE INSTALLED BY PERSONNEL LEGALLY PERMITTED AND CURRENTLY LICENSED TO INSTALL THE DEVICES AND EQUIPMENT. THE COST OF INSTALLATION, WARRANTY OF INSTALLATION AND EQUIPMENT, COORDINATION OF THE INSTALLATION, AND SUPERVISION OF THE INSTALLATION ARE RESPONSIBILITIES OF THE CONTRACTOR.

C. ALL FIRE ALARM CONDUIT, JUNCTION BOXES, PULL BOXES, CABLE SPLICES AND TERMINAL CABINETS SHALL BE ACCESSIBLE, PAINTED RED OR CLEARLY MARKED “FIRE ALARM”. THE CONTRACTOR SHALL COMPLY WITH ANY LOCAL CODES OR AHJ REQUIREMENTS FOR CIRCUIT IDENTIFICATION. ANY ACCESS PANELS REQUIRED FOR THE ACCESSIBILITY TO THE JUNCTION BOXES, PULL BOXES, CABLE SPLICES AND TERMINAL CABINETS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.

D. ALL WIRING CONDUCTORS AND CONDUITS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AT RIGHT ANGLES TO THE BUILDING WALLS, FLOORS AND CEILINGS, AND SUPPORTED FROM THE BUILDING STRUCTURE AT INTERVALS COMPLIANT WITH NEC REQUIREMENTS.

E. ALL POWER LIMITED WIRING CONDUCTORS FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT IN THE FOLLOWING LOCATIONS:

1. SEVEN (7) FEET OR LESS ABOVE THE FINISHED FLOOR.
2. ELECTRICAL AND MECHANICAL ROOMS.
3. ELEVATOR HOISTWAYS AND ELEVATOR MACHINE ROOMS.
4. CONCEALED ABOVE CEILINGS OR IN PARTITIONS.
5. AREAS SUBJECT TO PHYSICAL DAMAGE.
6. WHERE REQUIRED BY APPLICABLE CODES.
7. WIRING CONDUCTORS IN FINISHED AREAS THAT CANNOT BE CONCEALED ARE ALLOWED TO BE INSTALLED IN SURFACE-MOUNTED METALLIC RACEWAY ONLY UPON APPROVAL OF THE OWNER'S REPRESENTATIVE.

F. ALL NON-POWER LIMITED WIRING CONDUCTORS FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT.

G. POWER LIMITED WIRING CONDUCTORS FOR THE FIRE ALARM SYSTEM ARE NOT REQUIRED TO BE INSTALLED IN CONDUIT IN THE FOLLOWING LOCATIONS:

1. MORE THAN SEVEN (7) FEET ABOVE THE FINISHED FLOOR.
2. ABOVE LAY-IN CEILINGS.
3. CONCEALED IN CEILINGS OR PARTITIONS NOT SUBJECT TO DAMAGE.

H. EXPOSED WIRING CONDUCTORS AND CONDUITS SHALL BE CONCEALED FROM PUBLIC VIEW AT ALL LOCATIONS BY ROUTING ON THE INSIDE OF JOISTS, ABOVE LAY-IN CEILINGS, OVER GIRDERS, WITHIN PARTITIONS OR IN ANY OTHER MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

I. WIRING CONDUCTORS AND CONDUITS INSTALLED ABOVE LAY-IN CEILINGS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT BE PERMITTED LESS THAN NINE (9) INCHES ABOVE OR BEHIND REMOVABLE PANELS OR CEILING TILES.

J. EXPOSED WIRING CONDUCTORS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AT INTERVALS OF NO MORE THAN FIVE (5) FEET.

K. ALL WIRING CONDUCTORS SHALL BE TAGGED AT ALL JUNCTION POINTS AND SHALL TEST FREE FROM GROUNDS OR CROSSES BETWEEN CONDUCTORS.

L. POWER-LIMITED WIRING CONDUCTORS SHALL NOT BE INSTALLED IN CONDUITS WITH ELECTRIC LIGHT, POWER CLASS 1, NON-POWER-LIMITED FIRE ALARM AND MEDIUM POWER NETWORK-POWERED BROADBAND COMMUNICATIONS CIRCUITS.

M. FINAL CONNECTIONS BETWEEN EQUIPMENT AND THE WIRING SYSTEM SHALL BE MADE UNDER DIRECT SUPERVISION OF A REPRESENTATIVE OF THE FAEM. IF OTHER PERSONNEL ARE REQUIRED BY THE AHJ TO BE PRESENT DURING FINAL CONNECTIONS, THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING A REPRESENTATIVE OF THE FAEM FOR DIRECT SUPERVISION.

N. FIRE ALARM CABLING SHALL NOT BE PAINTED.

O. CONDUITS SHALL ENTER THE CONTROL PANEL ENCLOSURES ONLY IN THE APPROVED LOCATIONS, AS IDENTIFIED IN THE FAEM INSTALLATION INSTRUCTIONS.

3.03 EQUIPMENT MOUNTING

A. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE ALARM EQUIPMENT.

B. THE REMOTE ANNUNCIATOR SHALL BE MOUNTED SO THAT NO SWITCH, MANUALLY OPERATED DEVICE, DISPLAY, OR LED IS GREATER THAN SIXTY (60) INCHES ABOVE THE FINISHED FLOOR. THE REMOTE ANNUNCIATOR SHALL BE LOCATED AT THE ENTRANCE DESIGNATED FOR RESPONDING PERSONNEL OR AS OTHERWISE ACCEPTABLE TO THE AHJ.

C. MANUAL PULL STATIONS SHALL BE SECURELY MOUNTED WITH THE OPERABLE PART OF THE MANUAL PULL STATION NO GREATER THAN FORTY-EIGHT (48) INCHES ABOVE THE FINISHED FLOOR AND NO LESS THAN FORTY-TWO (42) INCHES ABOVE THE FINISHED FLOOR. PROVIDE SEMI-FLUSH MOUNTED ON STANDARD ELECTRICAL BOXES.

D. WALL MOUNTED VISUAL APPLIANCES SHALL BE SURFACE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN EIGHTY (80) INCHES AND NOT GREATER THAN NINETY-SIX (96) INCHES ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE-BASED ALTERNATIVE. WHERE LOW CEILING HEIGHTS DO NOT PERMIT WALL MOUNTING AT A MINIMUM OF EIGHTY (80) INCHES, WALL MOUNTED APPLIANCES SHALL BE MOUNTED WITHIN SIX (6) INCHES OF THE CEILING.

E. ALL INITIATING DEVICES AND ADDRESSABLE MODULES SHALL BE MOUNTED IN A LOCATION ACCESSIBLE FOR TESTING AND MAINTENANCE.

F. PROVIDE A LABEL FOR EACH INITIATING DEVICE INDICATING THE SPECIFIC ADDRESS FOR THAT DEVICE. THE LABEL SHALL INCLUDE THE NODE NUMBER, LOOP NUMBER AND DEVICE NUMBER WHERE APPLICABLE. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL DETECTORS AND THE COVER PLATES OF ADDRESSABLE MODULES. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

G. TRANSIENT SUPPRESSION MODULES SHALL BE LOCATED WITHIN AN APPROVED JUNCTION BOX OR CABINET AS INDICATED ON THE ENGINEERING DRAWINGS.

3.04 RESTORATION OF SITE

A. WHERE SIDEWALKS, CURBS, AND LAWNS ARE EXCAVATED BY THE FIRE ALARM CONTRACTOR, THESE AREAS SHALL BE BACKFILLED AND REPLACED TO THE ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, ARCHITECT AND AHJ.

3.05 PAINTING AND PATCHING

A. ALL FIRE ALARM CONDUIT SHALL BE THOROUGHLY CLEANED, REMOVING ALL DIRT, OIL, ETC. AND MADE READY TO RECEIVE PAINT.

B. HOLES IN WALLS OR FLOORS CUT DURING THE PERFORMANCE OF THIS WORK SHALL BE PATCHED OR COVERED WITH STANDARD ESCUTCHEON PLATES SO AS TO COMPLETELY CONCEAL THE CUTS WHERE THEY WOULD OTHERWISE BE EXPOSED TO VIEW.

C. HOLES IN WALLS AND CEILINGS CREATED BY THE REMOVAL OF FIRE ALARM EQUIPMENT NO LONGER USED SHALL BE PATCHED AND PAINTED TO MATCH THE EXISTING WALLS AND CEILINGS, OR COVERED WITH STANDARD ESCUTCHEON PLATES SO AS TO COMPLETELY CONCEAL THE “HOLES” WHERE THEY WOULD OTHERWISE BE EXPOSED TO VIEW.

D. ALL PENETRATIONS OF FIRE RATED ASSEMBLIES (WALL OR FLOOR CONSTRUCTION) SHALL BE FIRESTOPPED TO PRESERVE THE ORIGINAL FIRE RESISTANCE AND SMOKETIGHT INTEGRITY OF THE ASSEMBLY. ALL FIRESTOPPING METHODS SHALL BE UL LISTED THROUGH PENETRATION FIRESTOP SYSTEMS OR OTHERWISE APPROVED BY THE OWNER, ARCHITECT, ENGINEER, AND AHJ. SPECIFIC FIRESTOP ASSEMBLY SHALL BE IDENTIFIED AT THE PENETRATION LOCATION WITH A STICKER OR OTHER APPROVED IDENTIFICATION MEANS.

3.06 SYSTEM TESTS

A. ALL TEST AND INSPECTIONS SPECIFIED IN THIS SECTION SHALL BE REPORTED IN WRITING AND SUBMITTED IN ACCORDANCE WITH THIS SPECIFICATION SECTION.

B. THE SYSTEM SHALL MEET ALL THE REQUIREMENTS OF THE LISTED APPLICABLE CODES AND THE REQUIREMENTS OF THE AHJ. THE SYSTEM TESTS AND TEST DOCUMENTS, INCLUDING THOSE REQUIRED FOR AND BY THE APPROVED REMOTE MONITORING STATION, SHALL MEET THE REQUIREMENTS OF THE AHJ.

C. PROVIDE ONE HUNDRED (100) PERCENT INITIAL ACCEPTANCE TESTING OF THE ENTIRE FIRE ALARM SYSTEM PRIOR TO THE REQUIRED AHJ ACCEPTANCE TESTING. BEFORE REQUESTING THE AHJ ACCEPTANCE TESTING, FURNISH A WRITTEN STATEMENT TO THE OWNER'S REPRESENTATIVE INDICATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED DOCUMENTS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE APPLICABLE NFPA REQUIREMENTS. THE RECORD OF COMPLETION SHALL BE COMPLETED AND SUBMITTED AS PART OF THE WRITTEN STATEMENT.

D. ALL TESTING, INSPECTION AND RETESTING REQUIRED FOR CERTIFICATION AND REQUIRED FOR ALL WARRANTY WORK OR REPLACEMENTS SHALL MEET THE REQUIREMENTS OF THE AHJ. THIS CERTIFICATION, INSPECTION, OR TESTING SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.

E. PROVIDE THE TESTING DATE IN WRITING TO THE OWNER A MINIMUM OF TWO (2) WEEKS BEFORE THE DATE. THE OWNER MAY ELECT TO HAVE A REPRESENTATIVE PRESENT FOR TESTING.

F. THE FIRE ALARM SYSTEM WILL NOT BE ACCEPTABLE UNTIL FINAL TESTING AND RECEIPT OF THE TESTING CERTIFICATES HAVE BEEN OBTAINED.

G. A PROPOSAL TO PERFORM ANNUAL TESTING AND/OR INSPECTION SERVICES SHALL BE SUBMITTED TO THE OWNER A MINIMUM OF THREE (3) WEEKS BEFORE THE DATE OF INITIAL ACCEPTANCE TESTING. THE PROPOSAL SHALL INCLUDE ALL TESTING AND/OR INSPECTION SERVICES REQUIRED BY THE AHJ FOR THE TWO (2) YEAR PERIOD BEGINNING AT FINAL ACCEPTANCE OF THE SYSTEM. THE OWNER HAS THE OPTION TO ACCEPT OR REJECT THE PROPOSAL.

END OF SECTION

SHOP DRAWING SUBMITTAL NOTES

THE ENGINEERING DRAWINGS WERE PREPARED USING AUTOCAD AND WILL BE MADE AVAILABLE TO THE FIRE ALARM CONTRACTOR IN ELECTRONIC (.DWG) FORMAT. THE ENGINEERING DRAWINGS WERE PREPARED FOR BIDDING PURPOSES ONLY.

THE AWARDED FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING SHOP DRAWINGS FOR THE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SECTION 907.1.2 OF THE 2016 CALFIORNIA FIRE CODE.

SHOP DRAWINGS FOR THE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION. WHERE INSTALLATION CHANGES FROM THE APPROVED SHOP DRAWINGS, CORRECTED SHOP DRAWINGS SHOWING THE SYSTEM AS ACTUALLY INSTALLED SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO INSPECTION.

FIRE PROTECTION
ENGINEER OF RECORD:
JACOB P. HEMKE, PE
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