PROJECT SUMMARY (Description)

5 STORY HOTEL WITH 106 UNITS
WITH 612 SQ FT POOL AND BBQ LOUNGE AREA

CODES

ALL CONSTRUCTION SHALL COMPLY WITH CURRENTLY ADOPTED CODES AND GUIDELINES, INCLUDING :

FLORIDA BUILDING CODE 7th EDITION (2020)
- Accessibility
- Building
- Energy Conservation
- Fuel Gas
- Mechanical
- Plumbing

Florida Fire Prevention Code 7th EDITION (2020)
Fire Code - NFPA 1 - 2020 EDITION
The Life Safety Code - NFPA 101 - 2020 EDITION
The National Electrical Code - NFPA 70 - 2020 EDITION

TOWNEPLACE SUITES BY MARRIOTT GEN 5 DESIGN GUIDELINE DRAWINGS AND SPECIFICATIONS

CODE REVIEW

Florida Building Code:

CONSTRUCTION TYPE:
II-B TABLE 601 (SPRINKLERED PER SEC. 903.3.1 - NFPA 13)

OCCUPANCY:
R-1: PRIMARY OCCUPANCY
B: NON-SEPARATED 508.3
A-2/3: SEPARATED 1 HR PER 508.4

MAX TRAVEL DISTANCE ALLOWED:
R-1 = 250' (TABLE 1016.2)
B = 300' (TABLE 1016.2)
A = 250' (TABLE 1016.2)

ALLOWABLE BUILDING HEIGHT:
75'-0" (TABLE 504.3 TYPE II-B)

ACTUAL BUILDING HEIGHT:
68' - 2"

ALLOWABLE STORIES:
R-1: 12 (TABLE 504.4 TYPE II-B)

ACTUAL STORIES:
R-1 5

NFPA:

CONSTRUCTION TYPE:
II-000 SPRINKLERED PER NFPA 13

OCCUPANCY:
HOTEL: PRIMARY OCCUPANCY
BUSINESS: MIXED USE 6.1.14.1.3
MERCANTILE: MIXED USE 6.1.14.1.3
ASSEMBLY: SEPARATED 1 HR [TABLE 6.1.14.4.1(a)]

MAX TRAVEL DISTANCE ALLOWED:
R-1 = 250' (TABLE 1016.2)
B = 300' (TABLE 1016.2)
A = 250' (TABLE 1016.2)

ADDRESS NUMBER SIGNAGE

PROPERTY ADDRESS NUMBERS SHALL BE PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET FRONTING THE PROPERTY. ADDRESS NUMBERS MUST BE AT LEAST SIX [6] INCHES IN HEIGHT, ARABIC NUMERALS OR ALPHABET LETTERS WITH CONTRASTING COLOR OF ITS BACKGOUND.

PERMITS

GENERATOR PERMIT - SEPARATE
SITE LIGHTING PERMIT - SEPARATE

POOL BUILDING PERMIT - SEPARATE
DUMPSTER ENCLOSURE PERMIT - SEPARATE
SIGNAGE PERMIT - SEPARATE

FIRE STOP SYSTEMS AND FIRE PROTECTION COATINGS SHALL BE INSPECTED AND CERTIFIED BY AN APPROVED 3RD PARTY
STRUCTURAL WORK SHALL BE INSPECTED AND CERTIFIED BY AN APPROVED INDEPENDENT INSPECTOR AS REQUIRED BY THRESHOLD BUILDING STRUCTURAL INSPECTION SPECIFICATION

STRUCTURAL DESIGN CRITERIA

Section 1609, FBC

ULTIMATE WIND SPEED.....160 MPH
NOMINAL WIND SPEED.....124 MPH
USE COEFFICIENTS FROM CHAPTER 16 F.B.C.
RISK CATEGORY.....2 EXPOSURE CATEGORY.....C

COMPONENTS AND CLADDING DESIGN WIND PRESSURE (INCLUDING DOORS AND WINDOWS)..... NOMINAL +23.7, -25.7

FOUNDATION DESIGN BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF.

DIRECTORY

OWNER
LAKE CITY HOTELS INC.
ADDRESS: 450 SW Fl Gateway Dr, Lake City, Fl - 32024
TELEPHONE: 386-365-1157
FAX NUMBER: 386-487-0590
NICK PATEL
EMAIL: Nrjdpatel@lakecityhotels.com

STRUCTURAL
HB ASSOCIATES, L.L.C.
ADDRESS: 377 MAITLAND AVE., SUITE 2007, ALTAMONTE SPRINGS, FL 32701
TELEPHONE: (407) 740-5444
FAX NUMBER: (407) 740-7900
ENGINEER: HARRY BRUMLEY
EMAIL: HBAssociatesLLC@aol.com

ARCHITECT
HARTER - ADAMS P.A.
ADDRESS: 377 MAITLAND AVE., SUITE 2010, ALTAMONTE SPRINGS, FL 32701
TELEPHONE: (407) 647-5767
FAX NUMBER: (407) 647-2062
ARCHITECT: TOM ADAMS
E-MAIL: tom.adams1370@gmail.com

MECHANICAL/ELECTRICAL/PLUMBING
JOSEPH, LAWRENCE AND CO.
ADDRESS: 1180 HARWOOD AVE. SUITE 3000, ALTAMONTE SPRINGS, FL 32714
TELEPHONE: (321) 972-4466
FAX NUMBER:
ENGINEER: ADAM BARNEY
adam.barney@jlceng.com

DECLARATIVE STATEMENT

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND CHAPTER 633, FLORIDA STATUTES.

TOWNEPLACE SUITES®

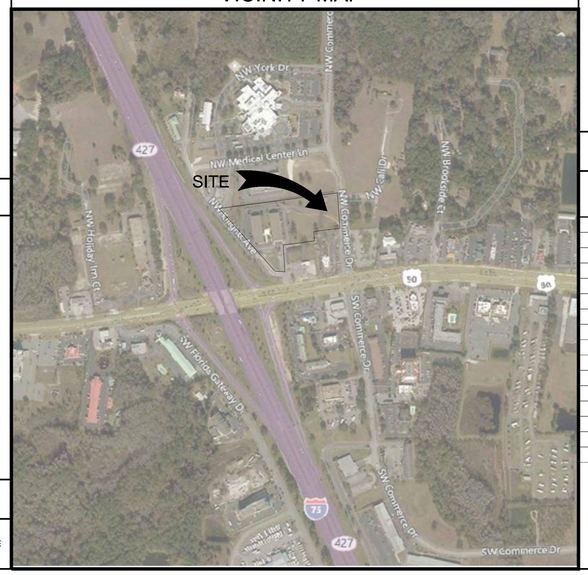
BY MARRIOTT

HIGHWAY 90 & NW COMMERCE DRIVE
LAKE CITY, FLORIDA

PERMIT SET

FEBRUARY 21, 2022

VICINITY MAP



GUEST UNITS SCHEDULE

UNIT TYPE	DIMENSIONS			TOILET FIXTURES			UNIT BREAKDOWN					FLOOR UNITS TOTAL	HEARING IMPAIRED UNITS
	LENGTH	WIDTH	AREA	LAV	WC	SHO/ TUB	1ST	2ND	3RD	4TH	5TH		
KING - STUDIO	21'-3"	14'-7"	307 SQ FT	1	1	SHO	2	7	7	7	7	30	U-103; U-223; U-323; U-423
KING - STUDIO-WIDE	33'-6"	14'-11"	454 SQ FT	1	1	SHO		1	1	2	2	6	
KING - STUDIO-ADA-TUB	33'-6"	14'-11"	450 SQ FT	1	1	TUB		1	1			2	U-205; U-305
KING - SUITE-LOCKOUT	27'-11"	22'-5"	478 SQ FT	1	1	TUB		2	1	1	1	5	
KING - SUITE-LOCKOUT LEFT	27'-11"	22'-5"	478 SQ FT	1	1	TUB		2	2	1	1	6	
KING - SUITE LOCKOUT - LEFT - SP ACC			SQ FT	1	1	TUB			1	1	1	3	
KING-SUITE LOCKOUT-ADA-TUB	27'-11"	22'-5"	478 SQ FT	1	1	TUB					1	1	U-524
KING-SUITE LOCKOUT-ADA-SHO	27'-11"	22'-5"	491 SQ FT	1	1	SHO	2					2	U-102; U-106
QQ - STUDIO CENTER	27'-3"	14'-7"	392 SQ FT	1	1	TUB		7	7	7	7	28	
QQ - STUDIO-END	34'-4"	14'-7"	457 SQ FT	1	1	TUB	2	2	2	2	2	10	
QUEEN - STUDIO LEFT - END			SQ FT	1	1	TUB		2	2	2	2	8	
QQ - STUDIO-WIDE - SP ACC	29'-3"	14'-11"	438 SQ FT	1	1	TUB			1	1	1	3	U-321
QQ - STUDIO - ADA-TUB	29'-3"	14'-11"	438 SQ FT	1	1	TUB		1				1	U-221
QQ - SUITE-LOCKOUT-TUB - ADA	27'-11"	22'-5"	491 SQ FT	1	1	TUB				1		1	U-402
TOTAL			SQ FT				6	25	25	25	25		12 Hearing Impaired GR

106 GUEST UNITS

NOTE: ALL HEARING IMPARED GUESTROOM UNITS ARE ALSO TAGGED ON BUILDING FLOOR PLANS TO SHOW LOCATION

INDEX

GENERAL INFORMATION	
A0.0	COVER SHEET
ARCHITECTURAL	
A0.1	BUILDING ANALYSIS
A0.2	VICINITY PLAN
A0.3	SITE PLAN
A1.1	WALL SCHEDULE
A1.2	WALL SCHEDULE
A2.1	1ST FLOOR BUILDING PLAN
A2.2	2ND FLOOR BUILDING PLAN
A2.3	3RD FLOOR BUILDING PLAN
A2.4	4TH FLOOR BUILDING PLAN
A2.5	5TH FLOOR BUILDING PLAN
A2.6	1ST & TYP UPPER FLOOR FINISH PLANS
A2.7	1ST FLR REFLECTED CEILING PLAN
A2.8	TYP 2ND - 5TH FLR RCP
A2.9	ROOF PLAN
A2.10	POOL PLAN
A2.11	POOL FURNITURE PLAN
A3.1	BUILDING ELEVATIONS
A3.2	BUILDING ELEVATIONS
A4.1	BUILDING SECTIONS
A5.1	WALL SECTIONS
A5.2	STAIR PLANS- SECTIONS
A5.3	ELEVATOR CHUTE PLANS
A5.4	PORTE COCHERE DETAILS
A5.5	DUMPSTER PLAN AND DETAILS
A6.1	ENLARGED 1ST FLR LOBBY AREAS PLAN
A6.2	ENLARGED 1ST FLR PUBLIC AREAS PLAN
A6.3	ENLARGED 1ST FLR LOBBY AREAS-FF PLAN
A6.4	ENLARGED 1ST FLR PUBLIC AREAS-FF PLAN
A6.5	ENLARGED 1ST FLR LOBBY AREAS-RCP PLAN
A6.6	ENLARGED 1ST FLR PUBLIC AREAS-RCP PLAN
A6.7	ENLARGED 1ST FLR LOBBY AREA FURNISHINGS PLAN
A6.8A	INTERIOR ELEVATIONS
A6.8B	INTERIOR ELEVATIONS
A6.9	KING STUDIO SHO
A6.10	KING - STUDIO-WIDE
A6.11	KING - STUDIO-ADA-TUB
A6.12	KING - SUITE-LOCKOUT
A6.13	KING - SUITE-LOCKOUT LEFT
A6.14	KING - SUITE LOCKOUT - LEFT - SP ACC
A6.15	KING-SUITE LOCKOUT-ADA-TUB
A6.16	KING-SUITE LOCKOUT-ADA-SHO
A6.17	QQ - STUDIO CENTER
A6.18	QQ - STUDIO-END
A6.19	QUEEN - STUDIO LEFT - END
A6.20	QQ - STUDIO-WIDE - SP ACC
A6.21	QQ - STUDIO - ADA-TUB
A6.22	QQ - SUITE-LOCKOUT-TUB - ADA
A7.1	DOOR SCHEDULE
A7.2	INTERIOR DOOR DETAILS
A7.3	EXTERIOR DOOR DETAILS
A7.4	WINDOW SCHEDULE
A7.5	WINDOW DETAILS
A8.1	DETAILS
A8.2	DETAILS
A8.3	DETAILS
A8.4	DETAILS
A8.5	DETAILS
A9.1	MILLWORK
A9.2	MILLWORK
A9.3	MILLWORK
A9.4	MILLWORK
A9.5	MILLWORK
A9.6	MILLWORK
A9.7	MILLWORK
A10.1	SPECS
A10.2	SPECS
A10.3	SPECS
LS1.1	LIFE SAFETY PLAN - 1ST FLR
LS1.3	ADA DETAILS
LS1.4	UL DETAILS
LS1.5	UL DETAILS
LS1.6	UL DETAILS
LS1.7	UL DETAILS
LS1.8	UL DETAILS
LS1.9	UL DETAILS
LS1.10	UL DETAILS
STRUCTURAL	
S1	FOUNDATION PLAN
S2	2ND FLR FRAMING PLAN
S2.1	SECTIONS
S2.2	SECTIONS
S2.3	DETAILS
S3	3RD-5TH FLR FRAMING PLAN
S4	ROOF FRAMING PLAN
S5	PARAPET FRAMING PLAN
S5.1	PARAPET DETAILS
S6	DETAILS
S7	DETAILS
S8	DETAILS
S9	DETAILS
S10	DETAILS
S11	DETAILS
S12	CANOPY FRAMING PLAN
ELECTRICAL	
E0.1	SYMBOLS & LEGEND
E1.1	SITE PLAN - ELECTRICAL
E1.3	SITE PLAN - PHOTOMETRICS
E1.4	SITE LIGHTING DETAILS
E2.1	FIRST FLR - POWER & SYSTEMS
E2.2	SECOND FLR - POWER & SYSTEMS
E2.3	THIRD FLR - POWER & SYSTEMS
E2.4	FOURTH FLR - POWER & SYSTEMS
E2.5	FIFTH FLR - POWER & SYSTEMS
E2.6	ROOF PLAN - ELECTRICAL
E3.1	FIRST FLR - LIGHTING
E3.2	SECOND FLR - LIGHTING
E3.3	THIRD FLR - LIGHTING
E3.4	FOURTH FLR - LIGHTING
E3.5	FIFTH FLR - LIGHTING
E4.1	ENLARGED GUESTROOM - KING STUDIO ADA TUB
E4.2	ENLARGED GUESTROOM - KING SUITE LOCKOUT ADA TUB
E4.3	ENLARGED GUESTROOM - QQ STUDIO END
E4.4	ENLARGED GUESTROOM - QQ SUITE LOCKOUT ADA TUB
E5.1	ENLARGED PLANS - MECH-ELEC RMS
E5.2	ENLARGED PLANS - FOOD PREP / BUFFET
E5.3	ENLARGED - ELEVATORS
E6.1	POWER RISER DIAGRAM
E6.2	FIRE ALARM DIAGRAM
E7.1	PANEL DIAGRAM
E7.2	PANEL DIAGRAM
E7.3	PANEL DIAGRAM
E7.4	PANEL DIAGRAM
E7.5	LIGHTING DIAGRAM
E8.1	ROOF
E9.1	ELECTRICAL SPECIFICATIONS
MECHANICAL	
M0.1	SYMBOLS & LEGEND
M2.1	FIRST FLR - MECHANICAL
M2.2	SECOND FLR - MECHANICAL
M2.3	THIRD FLR - MECHANICAL
M2.4	FOURTH FLR - MECHANICAL
M2.5	FIFTH FLR - MECHANICAL
M2.6	ROOF PLAN - MECHANICAL
M3.1	SCHEDULES
M3.2	SCHEDULES
M4.1	DETAILS
M4.2	DETAILS
M4.3	DETAILS
M4.4	DETAILS
M4.5	DETAILS
M5.1	EXHAUST VENT DIAGRAM
M5.2	O/A SHAFT DUCTWORK DIAGRAM
M6.1	MECHANICAL SPECIFICATIONS
M7.1	ENERGY CALCULATIONS
PLUMBING	
P0.1	SYMBOLS & LEGEND
P1.1	SITE PLAN - PLUMBING
P2.1	FIRST FLR - SANITARY PLUMBING
P2.1A	FIRST FLR - WATER/GAS PLUMBING
P2.2	SECOND FLR - PLUMBING
P2.3	THIRD FLR - PLUMBING
P2.4	FOURTH FLR - PLUMBING
P2.5	FIFTH FLR - PLUMBING
P2.6	ROOF PLAN - PLUMBING
P4.1	ENLARGED GUESTROOM - KING STUDIO ADA TUB
P4.2	ENLARGED GUESTROOM - KING SUITE LOCKOUT ADA TUB
P4.3	ENLARGED GUESTROOM - QQ STUDIO END
P4.4	ENLARGED GUESTROOM - QQ SUITE LOCKOUT ADA TUB
P5.1	ENLARGED PLANS - SERVICE AREAS
P6.1	SANITARY RISER DIAGRAMS
P6.2	WATER RISER DIAGRAMS
P6.3	NATURAL GAS RISER DIAGRAMS
P7.1	PLUMBING SCHEDULES
P8.1	PLUMBING DETAILS
P8.2	PLUMBING DETAILS
P8.3	PLUMBING DETAILS

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE FACILITY AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND EACH OF HIS SUBCONTRACTORS TO REVIEW ALL DRAWINGS, PROJECT MANUAL, ADDENDA ETC. TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED.
2. EXISTING CONDITIONS - ALL DIMENSIONS FOR EXISTING CONDITIONS ARE TO BE VERIFIED IN FIELD (V.I.F.) BY THE CONTRACTOR. THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO THE ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE AND NOTIFY THE ARCHITECT OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO INSTALLATION. ANY DISCREPANCIES IN DIMENSIONS OR SPECIAL MODIFICATIONS REQUIRED DUE TO FIELD CONDITIONS SHALL BE REPORTED IN WRITING TO THE ARCHITECT FOR CLARIFICATION, APPROVAL OR MODIFICATION PRIOR TO COMMENCEMENT OF WORK INVOLVED. THE RESPONSIBILITY FOR ANY CHANGES MADE IN FIELD WITHOUT PRIOR NOTIFICATIONS TO THE ARCHITECT, SHALL REST WITH THE CONTRACTOR OR ANY PERSON APPROVING SUCH CHANGE.
3. SITE USAGE - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER. TAKE CARE NOT TO BLOCK OR ADVERSELY AFFECT ANY PUBLIC OR ADJACENT OWNER AREAS, OR OTHER AREAS NOT WITHIN THE CONSTRUCTION LIMITS.
4. EXIT ACCESS - MAINTAIN FREE, SAFE AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION AND ANY OCCUPIED BUILDING(S) IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.
5. ITEMS NOT IN CONTRACT - ALL ITEMS IDENTIFIED AS NOT IN CONTRACT (N.I.C.) ARE TO BE FURNISHED BY THE OWNER. CONSULT THE OWNER FOR ANY ADDITIONAL REQUIRED INFORMATION NOT SHOWN.
6. COORDINATION - CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK ALL REQUIRED ITEMS SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR.
7. SPECIFICATIONS - REQUIREMENTS OF THE SPECIFICATIONS APPLY TO ALL ASPECTS OF THE WORK AND ARE INCLUDED AS ADDITIONAL INFORMATION FOR EACH ITEM SO SPECIFIED. IF DISCREPANCIES EXIST BETWEEN SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT REQUIREMENT(S) SHALL PREVAIL. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES TO OBTAIN CLARIFICATION.
8. CONTRACTOR SHALL VERIFY CONSTRUCTION IS COMPLETE AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS PRIOR TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS AND APPROVALS IN ALL FIELDS OF HIS WORK. NOTIFY THE ARCHITECT PRIOR TO INSPECTION OF ANY DEFICIENCES OBSERVED.
9. GENERAL CONSTRUCTION PROCEDURES, INCLUDING BUT NOT LIMITED TO, INSURANCE AND BONDS, CONTRACT BIDDING AND NEGOTIATIONS, LIENS, CHANGE ORDERS, TESTING PROCEDURES, SUBMITTALS, UBCI AND OTHER REQUIRED INSPECTIONS, WARRANTIES, ETC., SHALL COMPLY WITH CURRENT FLORIDA BUILDING CODE, LATEST EDITION. PRIOR TO COMMENCING WITH ANY WORK, THE CONTRACTOR SHALL FILE WITH THE OWNER, EVIDENCE OF INSURANCE WHICH SHALL CONTAIN ENDORSEMENTS AS REQUIRED BY THE FLORIDA BUILDING CODE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF ALL MATERIALS STORED ON SITE UNTIL FINAL ACCEPTANCE OF WORK BY OWNER.
11. ALL WORK AND MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S AND INDUSTRY'S RECOMMENDATIONS OR SPECIFICATIONS. SUBMIT SHOP DRAWINGS AS REQUIRED.
12. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS, WORKMANLIKE MANNER MATCHING AND ALIGNING ALL SURFACES, WHERE APPLICABLE, TO AFFORD A FINISHED AND CLEAN APPEARANCE. THE CONTRACTOR SHALL CLEAN ALL SURFACES AND REMOVE ALL DIRT AND REFUSE CAUSED BY DEBRIS FROM INSTALLATION TECHNIQUES OF EACH TRADE. ADJACENT EXISTING SURFACES SHALL BE LEFT AS THEY APPEARED PRIOR TO THE COMMENCEMENT OF WORK UNDER THIS CONTRACT.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS AT THE JOB SITE SO AS TO MEET THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.), DURING THE THE ENTIRE CONSTRUCTION PERIOD. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL ADVISE AND INFORM HIS EMPLOYEES, SUBCONTRACTORS, AND SUPPLIERS OF ALL O.S.H.A. REQUIREMENTS.
14. CONTRACTOR SHALL PROVIDE GALVANIC INSULATION BETWEEN ALL DISSIMILAR METALS TO BE USED WITHIN THE SCOPE OF WORK.
15. NO SUBSTITUTIONS ARE ALLOWED FOR MATERIALS WHERE SPECIFIC MANUFACTURERS ARE INDICATED, UNLESS APPROVED BY THE OWNER / ARCHITECT. WHERE APPROVED EQUAL IS USED, IT SHALL BE UNDERSTOOD THAT THE SUBSTITUTE SHALL BE PER JUDGMENT AND APPROVAL OF THE OWNER / ARCHITECT. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN WRITING PRIOR TO ORDERING MATERIALS OR COMMENCING WORK. SUCH REQUESTS SHALL INCLUDE THE DATE, SCOPE OF WORK, ANY ADDITIONAL COSTS OR SAVINGS TO THE OWNER, AND ANY ANTICIPATED DELAYS TO THE CONSTRUCTION SCHEDULE CAUSED BY SUCH CHANGES.
16. UNLESS OTHERWISE NOTED, PROVIDE ALL MISCELLANEOUS FASTENERS, HARDWARE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION, EVEN THOUGH SUCH ITEMS MAY NOT HAVE BEEN SPECIFICALLY MENTIONED IN THE DRAWINGS AND SPECIFICATIONS. NOTIFY THE ARCHITECT OF ANY REVISIONS OR ADDITIONAL INFORMATION OBTAINED FROM THE MANUFACTURER OF SPECIFIED MATERIALS OR EQUIPMENT WHICH MAY AFFECT THE CONTRACT TIME, COST OR QUALITY OF WORK.
17. QUALITY STANDARDS - ALL MATERIAL FURNISHED AND INCORPORATED IN THE WORK SHALL BE NEW AND UNUSED. ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS FROM THE CERTIFICATE OF OCCUPANCY DATE, UNLESS SPECIFIED FOR A LONGER PERIOD OF TIME ON SPECIFIED ITEMS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING HIS OWN DEFECTIVE WORK AS WELL AS ALL COSTS INCIDENTAL THERETO INCLUDING DAMAGE TO OTHER WORK, FURNISHINGS, MATERIALS, AND/OR EQUIPMENT. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO THE OWNERS' WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL BE SO WRITTEN THAT SUCH GUARANTEES OR WARRANTIES SHALL INSURE TO THE BENEFIT OF THE OWNER.

CONTRACTOR SHALL MOCK-UP UNIT LAYOUT FOR ALL TRADES

Digitally signed by Thomas D Adams
Date: 2022.03.18 '14:16:16 -04'00

STATE OF FLORIDA · THOMAS DALE ADAMS · 12261 · REGISTERED ARCHITECT

This item has been electronically signed and sealed by Thomas D. Adams, Arch, using a digital signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

AA C000606
HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-647-5767 FAX 407-647-2062

TOWNEPLACE SUITES® BY MARRIOTT

TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET
A0.0
OF

FIRE RATING ANALYSIS

EXTERIOR BEARING WALLS	0 HOURS	GUESTROOM PARTY WALLS	1 HOUR
STAIRWELL SHAFTS, ELEV SHAFT & LAUNDRY CHUTE SHAFT	2 HOURS	DOORS IN 2 HOUR RATED WALLS	90 MINUTES
HOLLOW CORE FLOOR / CEILING ASSEMBLY BETWEEN FLOORS	1 HOUR	DOORS IN 1 HOUR RATED WALLS	45 MINUTES
SEPARATION WALLS	1 HOUR	GUESTROOM ENTRANCE DOOR	20 MINUTES

NOTE:
1. REFER TO UL DETAILS FOR RATED ASSEMBLY REQUIREMENTS
2. WALL RATINGS ALSO REFLECTED ON FLOOR PLAN (LIFE SAFETY PLAN)

CEILING WALL FIRE RESISTANT CLASS

EXIT ENCLOSURES	CLASS A	ROOMS AND ENCLOSED SPACES	CLASS A,B,C
LOBBYS AND CORRIDORS	CLASS A, B		

FLOOR FIRE RESISTANT CLASS

EXITS, CORRIDORS AND NOT ENCLOSED SPACES	CLASS II	ROOMS AND ENCLOSED SPACES	CLASS I, II

STC RATING REQUIREMENTS

HOLLOW CORE FLOOR ASSEMBLY (WITH OR WITHOUT CEILING)	57 IIC MIN	GUESTROOM PARTY WALLS	STC 55 MIN.
	STC 55 MIN.	GUESTROOM TO CORRIDOR WALL	STC 55 MIN.
SHAFT WALLS	STC 38 MIN.	GUESTROOM TO PUBLIC AREA SEPARATION WALL	STC 55 MIN.
CORRIDOR WALLS	STC 50 MIN.		

AREA AND OCCUPANCY SCHEDULE

BUILDING CONSTRUCTION: TYPE II-B (SPRINKLERED) BLDG HEIGHT: 68'-2"

LEVEL	AREA	SPACE	AREA	% OCC	OCCUPANCY
1ST FLOOR	15,621 SQ FT				
		GUEST UNITS (R1)	2,742 SQ FT	1/200 SQ FT	14 PERSONS
		LOBBY/BKFST/BAR (A2)	2,190 SQ FT	1/15 SQ FT	146 PERSONS
		ASSEMBLY AREA (A3)	3,239 SQ FT	1/15 SQ FT	216 PERSONS
		GUEST LAUNDRY (R/S)	247 SQ FT	1/200 SQ FT	2 PERSONS
		OFFICE (B)	646 SQ FT	1/150 SQ FT	4 PERSONS
		FITNESS CENTER (A3)	754 SQ FT	1/50 SQ FT	16 PERSONS
		LAUNDRY (B)	735 SQ FT	1/150 SQ FT	5 PERSONS
		KITCHEN (B)	334 SQ FT	1/150 SQ FT	4 PERSONS
		STORAGE/MECH (S1)	1111 SQ FT	1/300 SQ FT	4 PERSONS
				TOTAL	411 PERSONS
2ND FLOOR	14,161 SQ FT				
		GUEST UNITS (R1)	10,856 SQ FT	1/200 SQ FT	55 PERSONS
		HSKPG/STOR (R/S)	668 SQ FT	1/200 SQ FT	4 PERSONS
				TOTAL	59 PERSONS
3RD FLOOR	14,161 SQ FT				
		GUEST UNITS (R1)	10,856 SQ FT	1/200 SQ FT	55 PERSONS
		HSKPG/STOR (R/S)	668 SQ FT	1/200 SQ FT	4 PERSONS
				TOTAL	59 PERSONS
4TH FLOOR	14,161 SQ FT				
		GUEST UNITS (R1)	10,856 SQ FT	1/200 SQ FT	55 PERSONS
		HSKPG/STOR (R/S)	668 SQ FT	1/200 SQ FT	4 PERSONS
				TOTAL	59 PERSONS
5TH FLOOR	14,161 SQ FT				
		GUEST UNITS (R1)	10,856 SQ FT	1/200 SQ FT	55 PERSONS
		HSKPG/STOR (R/S)	668 SQ FT	1/200 SQ FT	4 PERSONS
				TOTAL	59 PERSONS

TOTAL BLDG AREA: 72,265 SQ FT MAX OCCUPANCY: 647 PERSONS

FIXTURE CALCULATIONS SCHEDULE

WATERCLOSET

OCCUPANCY	FBC CODE	OCC LOAD	REQUIRED	REMARKS
(A2) ASSEMBLY (FIXED SEATS)	1 PER 75 FEMALE	51 FEMALE	0.68 FEMALE	
(A2) ASSEMBLY (NON-FIXED SEATS)	1 PER 65 FEMALE	19 FEMALE	0.29 FEMALE	
(A2) FITNESS ROOM	1 PER 65 FEMALE	5 FEMALE	0.08 FEMALE	
(S) STORAGE	1 PER 100 FEMALE	1 FEMALE	0.01 FEMALE	
(F-1) LAUNDRY	1 PER 100 FEMALE	4 FEMALE	0.04 FEMALE	
(B) OFFICE	1 PER 25 FEMALE	2 FEMALE	0.08 FEMALE	
(A2) ASSEMBLY (FIXED SEATS)	1 PER 75 MALE	51 MALE	0.68 MALE	
(A2) ASSEMBLY (NON-FIXED SEATS)	1 PER 125 MALE	19 MALE	0.15 MALE	
(A2) FITNESS ROOM	1 PER 125 MALE	5 MALE	0.04 MALE	
(S) STORAGE	1 PER 100 MALE	1 MALE	0.01 MALE	
(F-1) LAUNDRY	1 PER 100 MALE	4 MALE	0.04 MALE	
(B) OFFICE	1 PER 25 MALE	2 MALE	0.08 MALE	

REQUIRED TOTAL: 2.18 4 WATERCLOSETS AND 1 URINAL PROVIDED

LAVATORY

OCCUPANCY	FBC CODE	OCC LOAD	REQUIRED	REMARKS
(A2) ASSEMBLY (FIXED SEATS)	1 PER 200 FEMALE	51 FEMALE	0.26 FEMALE	
(A2) ASSEMBLY (NON-FIXED SEATS)	1 PER 200 FEMALE	19 FEMALE	0.10 FEMALE	
(A2) FITNESS ROOM	1 PER 200 FEMALE	5 FEMALE	0.03 FEMALE	
(S) STORAGE	1 PER 100 FEMALE	1 FEMALE	0.01 FEMALE	
(F-1) LAUNDRY	1 PER 100 FEMALE	4 FEMALE	0.04 FEMALE	
(B) OFFICE	1 PER 25 FEMALE	2 FEMALE	0.08 FEMALE	
(A2) ASSEMBLY (FIXED SEATS)	1 PER 200 MALE	51 MALE	0.26 MALE	
(A2) ASSEMBLY (NON-FIXED SEATS)	1 PER 200 MALE	19 MALE	0.10 MALE	
(A2) FITNESS ROOM	1 PER 200 MALE	5 MALE	0.03 MALE	
(S) STORAGE	1 PER 100 MALE	1 MALE	0.01 MALE	
(F-1) LAUNDRY	1 PER 100 MALE	4 MALE	0.04 MALE	
(B) OFFICE	1 PER 25 MALE	2 MALE	0.08 MALE	

REQUIRED TOTAL: 1.01 4 LAVATORIES PROVIDED

DRINKING FOUNTAIN

OCCUPANCY	FBC CODE	OCC LOAD	REQUIRED	REMARKS
(A2) ASSEMBLY (FIXED SEATS)	1 PER 500 FEMALE	51 FEMALE	0.10 FEMALE	
(A2) ASSEMBLY (NON-FIXED SEATS)	1 PER 500 FEMALE	19 FEMALE	0.04 FEMALE	
(A2) FITNESS ROOM	1 PER 500 FEMALE	5 FEMALE	0.01 FEMALE	
(S) STORAGE	1 PER 1000 FEMALE	1 FEMALE	0.001 FEMALE	
(F-1) LAUNDRY	1 PER 400 FEMALE	4 FEMALE	0.01 FEMALE	
(B) OFFICE	1 PER 100 FEMALE	2 FEMALE	0.02 FEMALE	
(A2) ASSEMBLY (FIXED SEATS)	1 PER 200 MALE	51 MALE	0.26 MALE	
(A2) ASSEMBLY (NON-FIXED SEATS)	1 PER 200 MALE	19 MALE	0.10 MALE	
(A2) FITNESS ROOM	1 PER 200 MALE	5 MALE	0.03 MALE	
(S) STORAGE	1 PER 1000 MALE	1 MALE	0.001 MALE	
(F-1) LAUNDRY	1 PER 400 MALE	4 MALE	0.01 MALE	
(B) OFFICE	1 PER 100 MALE	2 MALE	0.02 MALE	

REQUIRED TOTAL: 0.59 1 PROVIDED

FBC TABLE 224.2 GUESTROOM W/ MOBILITY FEATURES

ROOMS PER FBC TABLE	ROOMS PROVIDED	ROLL-IN SHO		W/O ROLL-IN SHO		TOTAL
		FBC REQ	PROVIDED	FBC REQ	PROVIDED	
101-150	105	2	2	5	5	7

FBC TABLE 224.4 GUESTROOM W/ COMMUNICATIONS FEATURES

ROOMS PER FBC TABLE	ROOMS PROVIDED	FBC REQUIREMENT	PROVIDED	TOTAL
101-150	105	12	12	12

CODE CRITERIA

ALL CONSTRUCTION SHALL COMPLY WITH CURRENTLY ADOPTED CODES INCLUDING:

FLORIDA BUILDING CODE 7th EDITION (2020)
- Accessibility
- Building
- Energy Conservation
- Fuel Gas
- Mechanical
- Plumbing

The National Electrical Code, NFPA 70 - 2020 EDITION
Florida Fire Prevention Code 7th EDITION (2020)
Fire Code - NFPA 1 - 2020 EDITION WITH FLORIDA AMENDMENTS
The Life Safety Code - NFPA 101 - 2020 EDITION WITH FLORIDA AMENDMENTS

USE & OCCUPANCY CLASSIFICATION:

FBC - R1 (HOTEL); NFPA - HOTEL

TYPE OF CONSTRUCTION:

FBC - II B; NFPA - II (000)
SPRINKLERED

CODE REVIEW

CONSTRUCTION TYPE:
II-B TABLE 601 (SPRINKLERED PER SEC. 903.3.1 - NFPA 13)

OCCUPANCY:
R-1: PRIMARY OCCUPANCY
B: NON-SEPARATED 1-HR PER 508.3
A-2/3: NON-SEPARATED 1 HR PER 508.3

MAX TRAVEL DISTANCE ALLOWED:
R-1 = 250' (TABLE 1016.2)
B = 300' (TABLE 1016.2)
A = 250' (TABLE 1016.2)

ALLOWABLE BUILDING HEIGHT:
75'-0" (TABLE 504.3 TYPE II-B)

ACTUAL BUILDING HEIGHT:
68' - 1"

ALLOWABLE STORIES:
R-1: 5 (TABLE 504.33 TYPE II-B)

ACTUAL STORIES:
R-1 5

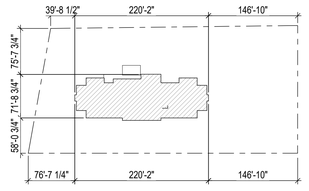
BUILDING AREA CALCS

ALLOWABLE BUILDING AREAS:
R-1 ALLOWABLE PER FLOOR = 48,000 s.f. per floor
(TABLE 503 TABULAR AREA)

ACTUAL BUILDING AREAS (GROSS):

FLOOR	AREA/FLR.	ALLOWABLE AREA
1ST FLOOR	15,621 S.F.	48,000 S.F.
2ND FLOOR	14,161 S.F.	48,000 S.F.
3RD FLOOR	14,161 S.F.	48,000 S.F.
4TH FLOOR	14,161 S.F.	48,000 S.F.
5TH FLOOR	14,161 S.F.	48,000 S.F.
TOTAL	72,265 S.F.	240,000 S.F.

DISTANCE FROM PROPERTY LINES



MEANS OF EGRESS

1. AREAS INCLUDED FOR OCCUPANT LOAD CALCULATION DO NOT INCLUDE CORRIDORS, STAIRS, RESTROOMS AND UNOCCUPIED AREAS.

2. THE NUMBER OF OCCUPANTS HAVE BEEN ROUNDED UP TO THE NEAREST WHOLE OCCUPANT

3. DESIGN OCCUPANT LOADPER FBC TABLE 1004.1.2: SEE CALCULATIONS BY OCCUPANCY THIS SHEET.
A. ACCESSORY STORAGE AREAS = 300 SF / OCCUPANT (GROSS)
B. ASSEMBLY W/O FIXED SEATS = 15 SF / OCCUPANT (NET)
C. BUSINESS AREAS = 100 SF / OCCUPANT (GROSS)
D. RESIDENTIAL = 200 SF/ OCCUPANT (GROSS)

4. NUMBER OF EXITS (FBC 1006):TWO EXITS SHALL BE REQUIRED FROM ANY SPACE WHERE THE OCCUPANT LOAD EXCEEDS THE FOLLOWING VALUES PER IBC TABLE 1015.1: SEE EXITING PLANS THIS SHEET.
A. GROUP A = 49 OCCUPANTS
B. GROUP B = 49 OCCUPANTS
C. GROUP R = 10 OCCUPANTS

5. SEPARATION OF EXITS (FBC 1007.1.1) WHERE TWO EXITS ARE REQUIRED THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/3 THE DIAGONAL DIMENSION OF THE AREA SERVED (EXCEPTION 2 SPRINKLERED BUILDING). SEE EXITING PLANS THIS SHEET FOR SEPARATION DIMENSIONS.

6. COMMON PATH OF EGRESS TRAVEL (FBC TBL. 1006.2.1):
SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
A. GROUP A, R = 75 FT MAXIMUM.
B. GROUP B = 100 FT MAXIMUM.

7. EXIT ACCESS TRAVEL DISTANCE (FBC TBL. 1017.2):
A. GROUP A,R = 250 FT (SPRINKLERED)
B. GROUP B = 300 FT (SPRINKLERED)

EXIT ACCESS TRAVEL DISTANCE (FFPC-LSC 28.2.6.3.3.1):
A. GROUP NEW HOTEL = 200 FT (SPRINKLERED)
FROM GUEST ROOM TO EXIT

8. DEAD-END CORRIDORS (FFPC-LSC 39.2.5.2; 28.2.5.6)
A. GROUP B, R-1 (SPRINKLERED) = 50 FT.

9. EGRESS WIDTH (FBC 1005.1)SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPIED BY:
A. (SPRINKLERED EXCEPTION) .2 INCHES / OCCUPANT FOR STAIRS. PROPOSED STAIR WIDTH = 48" /.2 = 240 OCCUPANTS / STAIR ACCOMMODATED.
B. (SPRINKLERED EXCEPTION) .15 INCHES PER OCCUPANT FOR OTHER COMPONENTS
- PROPOSED 36" DOOR = 34"/.15 = 227 OCCUPANTS ACCOMMODATED
- PROPOSED RESIDENTIAL CORRIDOR WIDTH = 63" CLEAR/.15 = 420 OCCUPANTS ACCOMMODATED.
C. SEE EXITING PLANS FOR ACTUAL NUMBER OF OCCUPANTS.

10. MEANS OF EGRESS ILLUMINATION (IBC 1008)
A. PROVIDE ILLUMINATION LEVEL OF NOT LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES THE SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
B. POWER SUPPLY TO BE PROVIDED BY PREMISES' ELECTRICAL SUPPLY. IN EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE AREAS REQUIRED PER FBC 1008.3 INCLUDING: CORRIDORS, EXIT ENCLOSURES, EXIT PASSAGEWAYS, INTERIOR EXIT DISCHARGE ELEMENTS AND EXTERIOR LANDINGS FOR EXIT DISCHARGE DOORWAYS.
C. REFER TO ELECTRICAL PLANS OR BIDDER/DESIGN PLANS FOR SYSTEM DESIGN.

11. EXIT SIGNS (FBC 1013):
A. PROVIDE AN APPROVED EXIT SIGN AT ALL EXITS AND EXIT ACCESS DOORWAYS (FROM SPACES REQUIRING TWO EXITS) IN A LOCATION THAT IS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. PLACE SIGNS SUCH THAT NO POINT IN CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FT FROM THE NEAREST VISIBLE EXIT SIGN.
B. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED PER IBC 1011.4 AND 1011.5.
C. PROVIDE A TACTILE EXIT SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, EXTERIOR AREA FOR ASSISTED RESCUE, EXIT STAIRWAY, EXIT RAMP, EXIT PASSAGEWAY AND EXIT DISCHARGE.

12. POSTING OF OCCUPANT LOAD (FBC 1004.3):
EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE SPACE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED. SEE OCCUPANCY & EGRESS PLANS THIS SHEET FOR OCCUPANT LOADS.

13. ALL AUDIBLE AND VISUAL ALARMS SHALL COMPLY WITH PROVISIONS OF NFPA 72.

NOTE

PER F.A.C. 64E-9.006 (2) (f) - POOLS WITH BATHING LOAD OF 20 PERSONS OR LESS MAY UTILIZE A UNISEX RESTROOM. THIS PROPERTY HAS 102 UNITS, 1 GPM PER UNIT, BATHING LOAD IS 1 PERSON PER 5 GPM OR 102/5=20 PERSONS

PER F.A.C. 64E-9.006 (2) (f) 4. - POOLSIDE SANITARY FACILITIES ARE NOT REQUIRED IF ALL LIVING UNITS ARE WITHIN A 200' HORIZONTAL RADIUS OF THE NEAREST WATERS EDGE . THIS BUILDING COMPLIES.

FBC TABLE 454.1.6.1 SWIMMING POOL FIXTURES

POOL SIZE	URINAL	MEN		WOMEN		HOSE BIBB	SHOWER
		WC	LAV	WC	LAV		
0-2500	1	1	1	1	1	1	1

AA C0006606

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BY MARRIOTT

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

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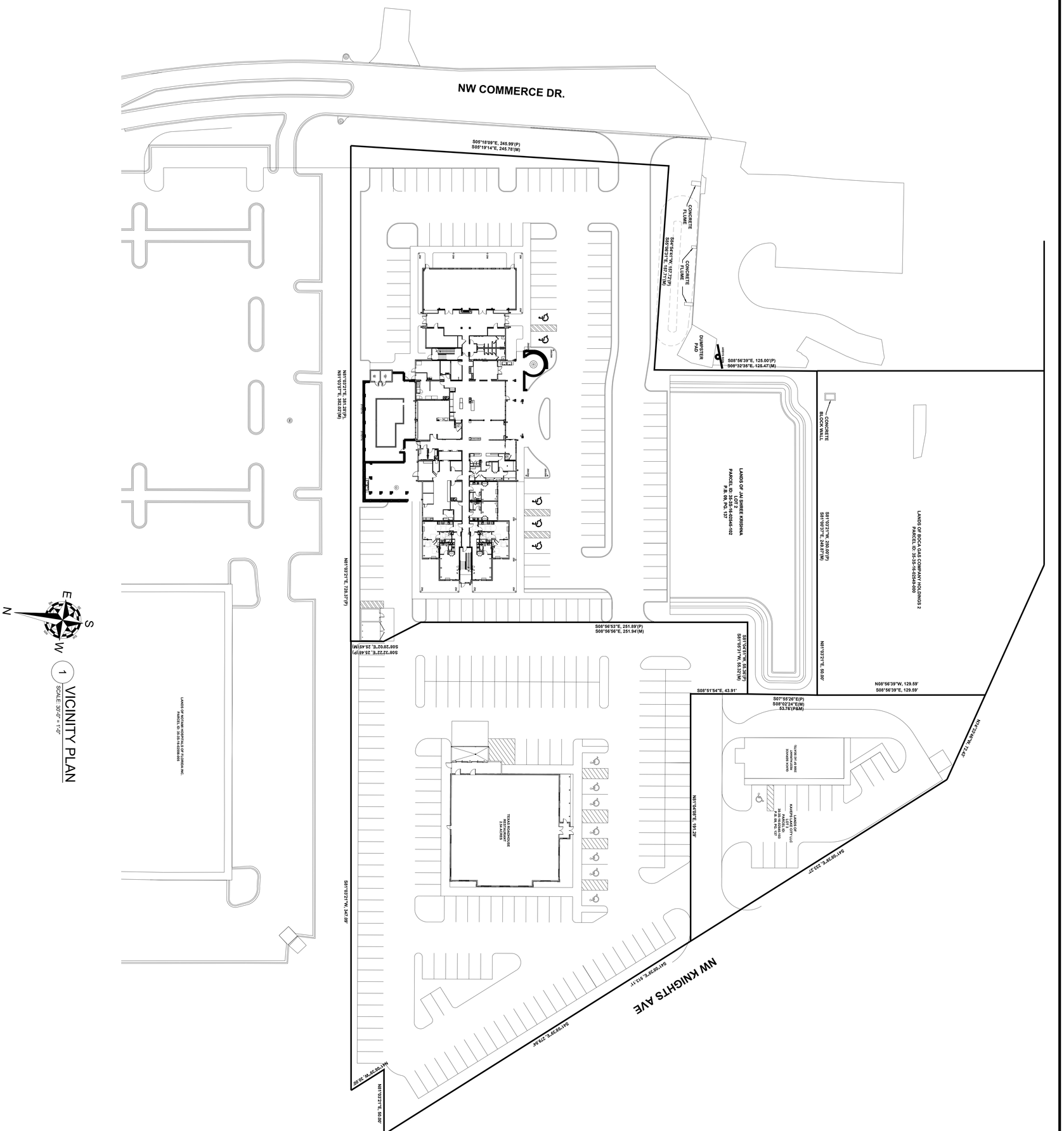

1 VICINITY PLAN
SCALE: 30'-0" = 1'-0"

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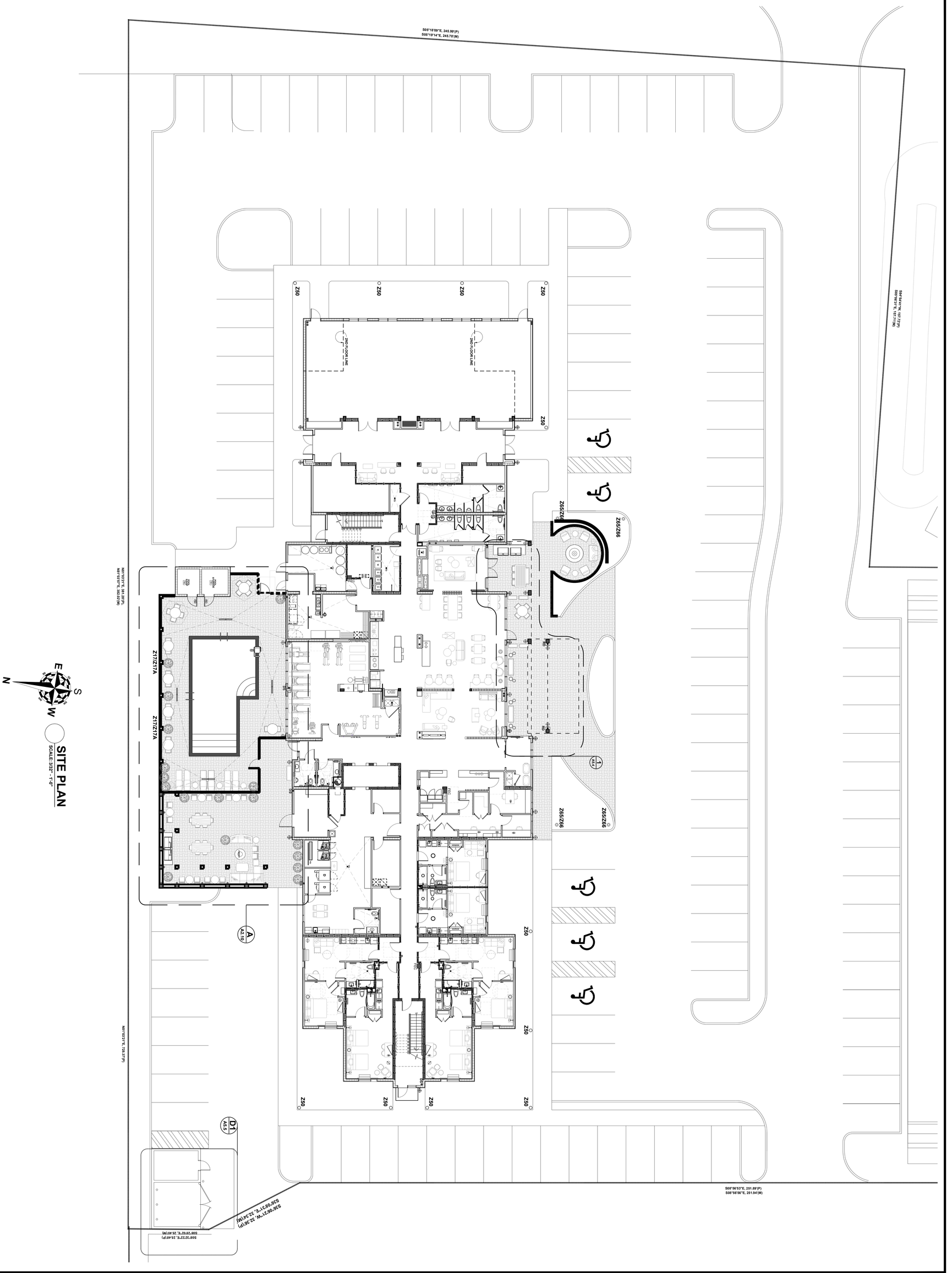

N E S W

SITE PLAN

SCALE: 3/32" - 1'-0"

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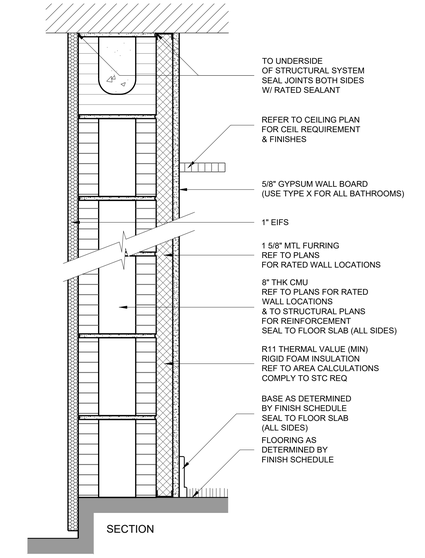
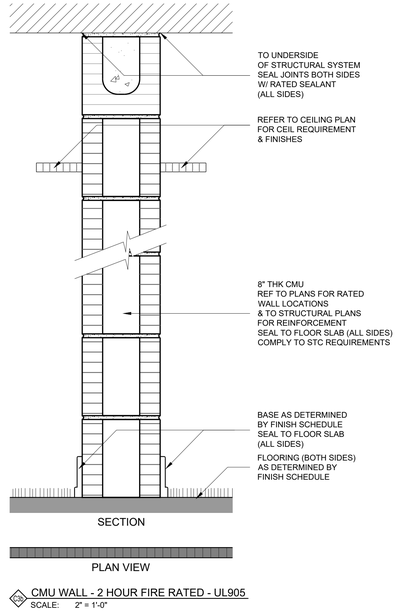
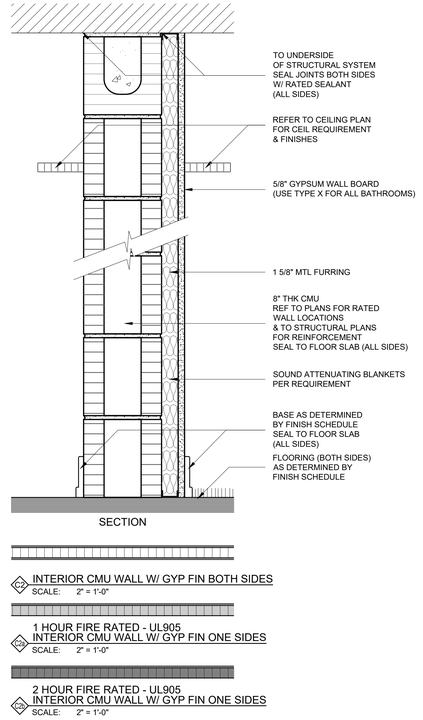
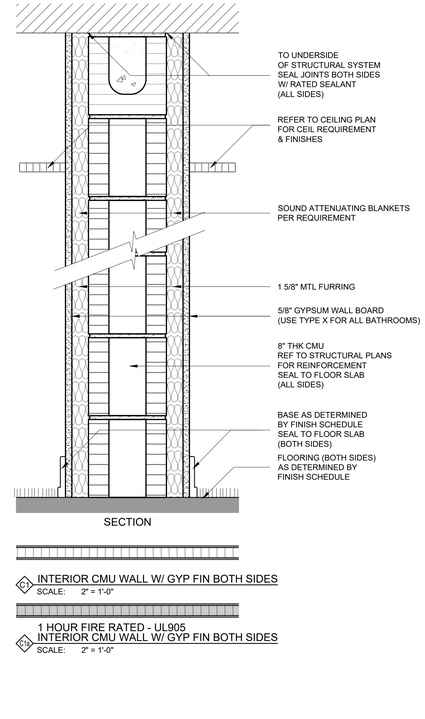




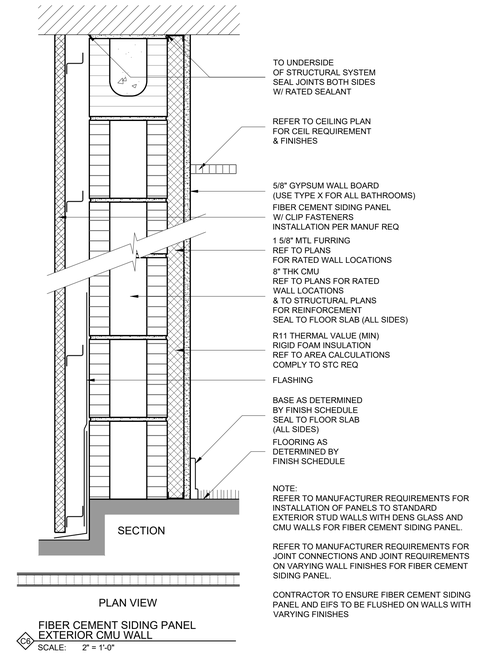


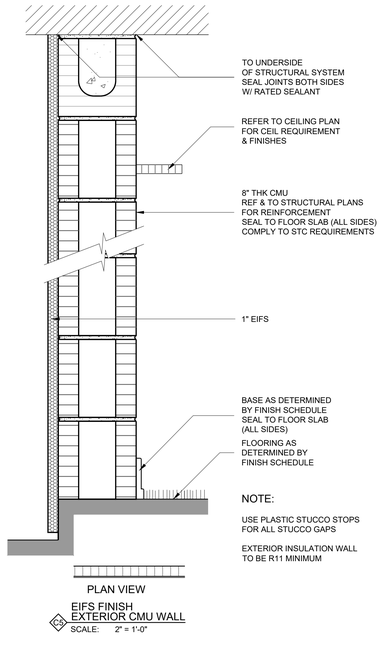


NOTES

1. ALL PENETRATIONS PIPES, CONDUITS, ETC., MUST BE SEALED TO MAINTAIN FIRE RATING. DO NOT INSTALL ELECTRICAL OUTLETS BACK-TO-BACK

2. ALL WALLS TO COMPLY WITH REQUIRED STC REQUIREMENTS.





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OF

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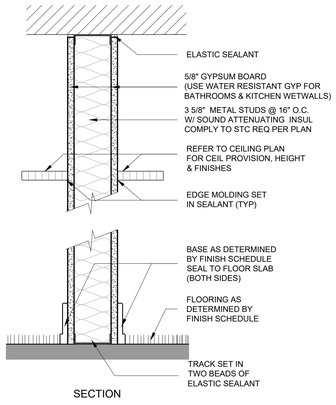
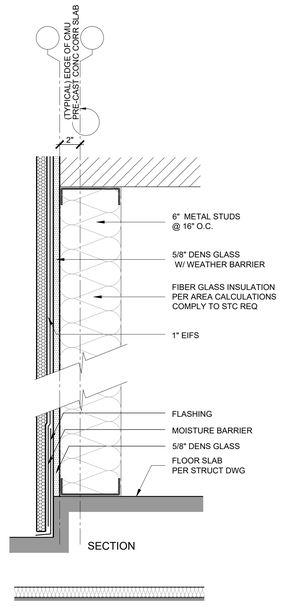
2. ALL WALLS TO COMPLY WITH REQUIRED STC REQUIREMENTS.



S9 INT STUD WALL W/ GYP FIN BOTH SIDES
SCALE: 2" = 1'-0"



S10 6" EXTERIOR STUD WALL
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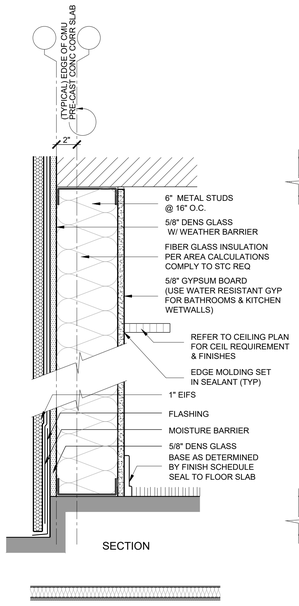
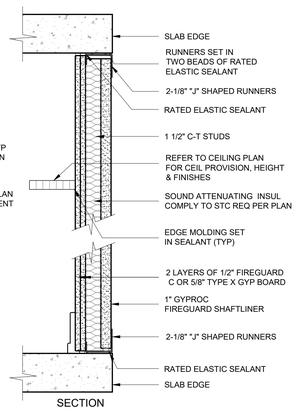
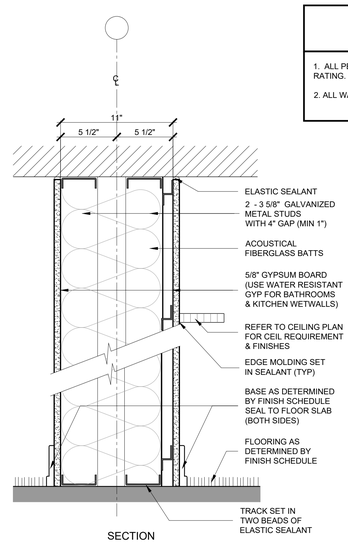


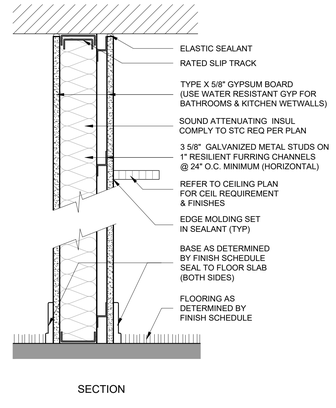
S11 6" EXTERIOR STUD WALL W/ INT GYP FIN
SCALE: 2" = 1'-0"



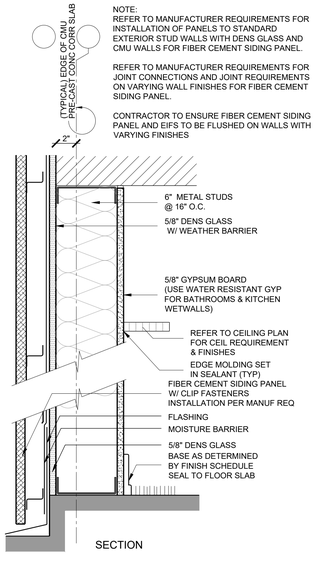
S12 2 HOUR FIRE RATED - U 438
INT STUD SHAFT WALL
SCALE: 2" = 1'-0"



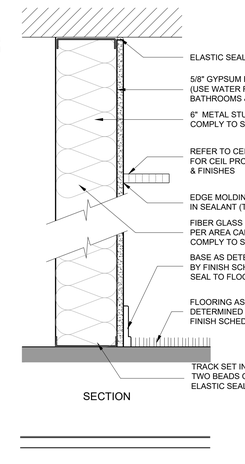
S2 1 HOUR FIRE RATED - UL 263
INT STUD WALL W/ GYP FIN BOTH SIDES
SCALE: 2" = 1'-0"



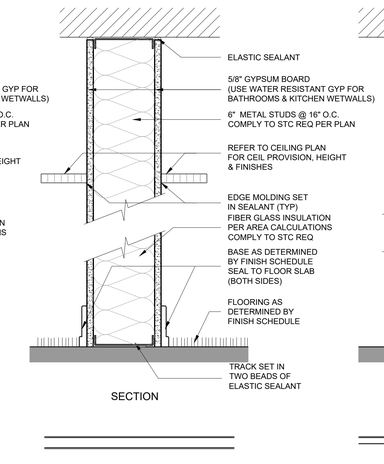
S1 1 HOUR FIRE RATED - U 419
INT STUD WALL W/ GYP FIN BOTH SIDES
SCALE: 2" = 1'-0"



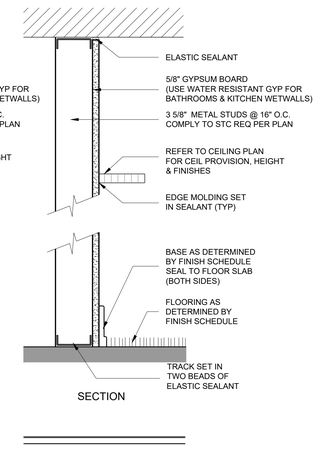
S13 FIBER CEMENT SIDING PANEL
6" EXTERIOR STUD WALL W/ INT GYP FIN
SCALE: 2" = 1'-0"



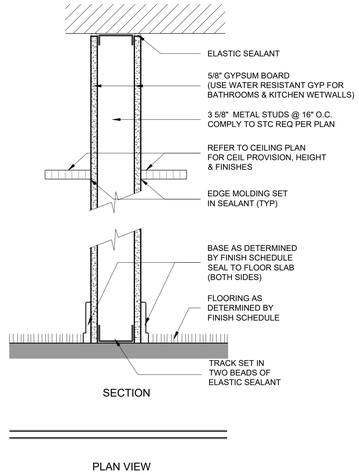
S17 6" INT STUD WALL W/ GYP FIN ONE SIDE
SCALE: 2" = 1'-0"



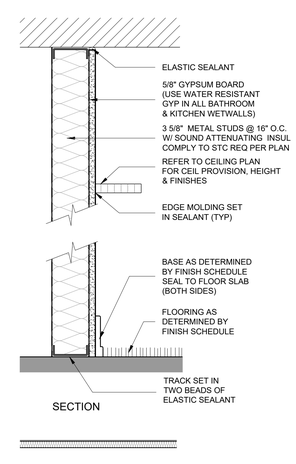
S16 6" INT STUD WALL W/ GYP FIN BOTH SIDES
SCALE: 2" = 1'-0"



S15 INT STUD WALL W/ GYP FIN ONE SIDE
SCALE: 2" = 1'-0"



S18 INT STUD WALL W/ GYP FIN BOTH SIDES
SCALE: 2" = 1'-0"



S7 INT STUD WALL W/ GYP FIN ONE SIDES
SCALE: 2" = 1'-0"

AA C0006606

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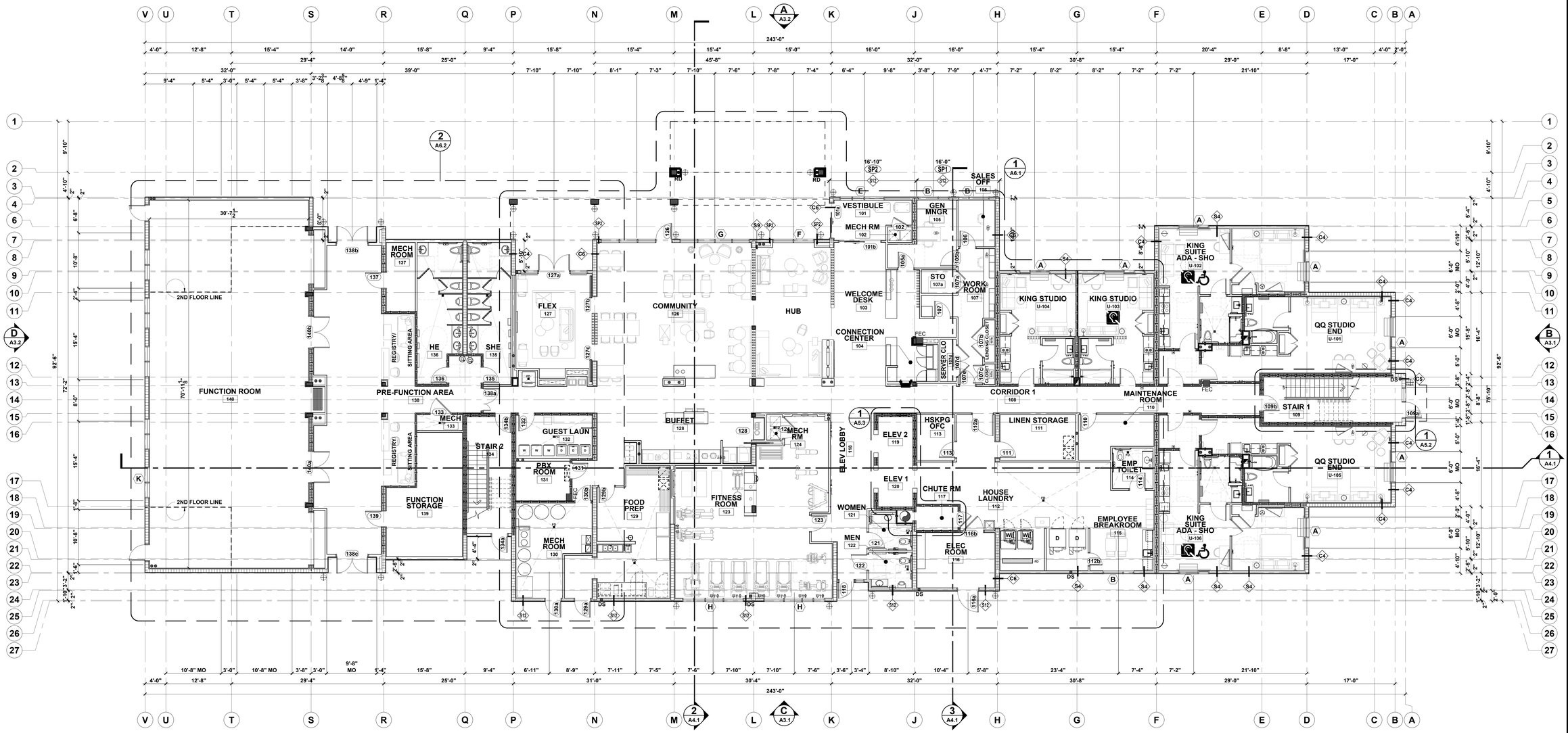

A 1ST FLOOR BUILDING PLAN
SCALE: 1/8" = 1'-0"

1ST FLOOR UNIT DATA

UNIT TYPE	TOTAL	SHO/TUB	ADA UNIT/S	SPECIAL ACCESSIBILITY	HEARING IMPAIRED UNITS
QUEEN - STUDIO END	2 UNITS	SHO			
KING - STUDIO	2 UNITS	TUB			U-103
KING-SUITE LOCKOUT-ADA-SHO	2 UNITS	SHO	U-102; U-106		U-102; U-106
	6 UNITS				
TOTAL UNITS: 6 UNITS			2 UNITS	2 UNITS	3 UNITS

TOTAL AREA: 15,621 SQ. FT.

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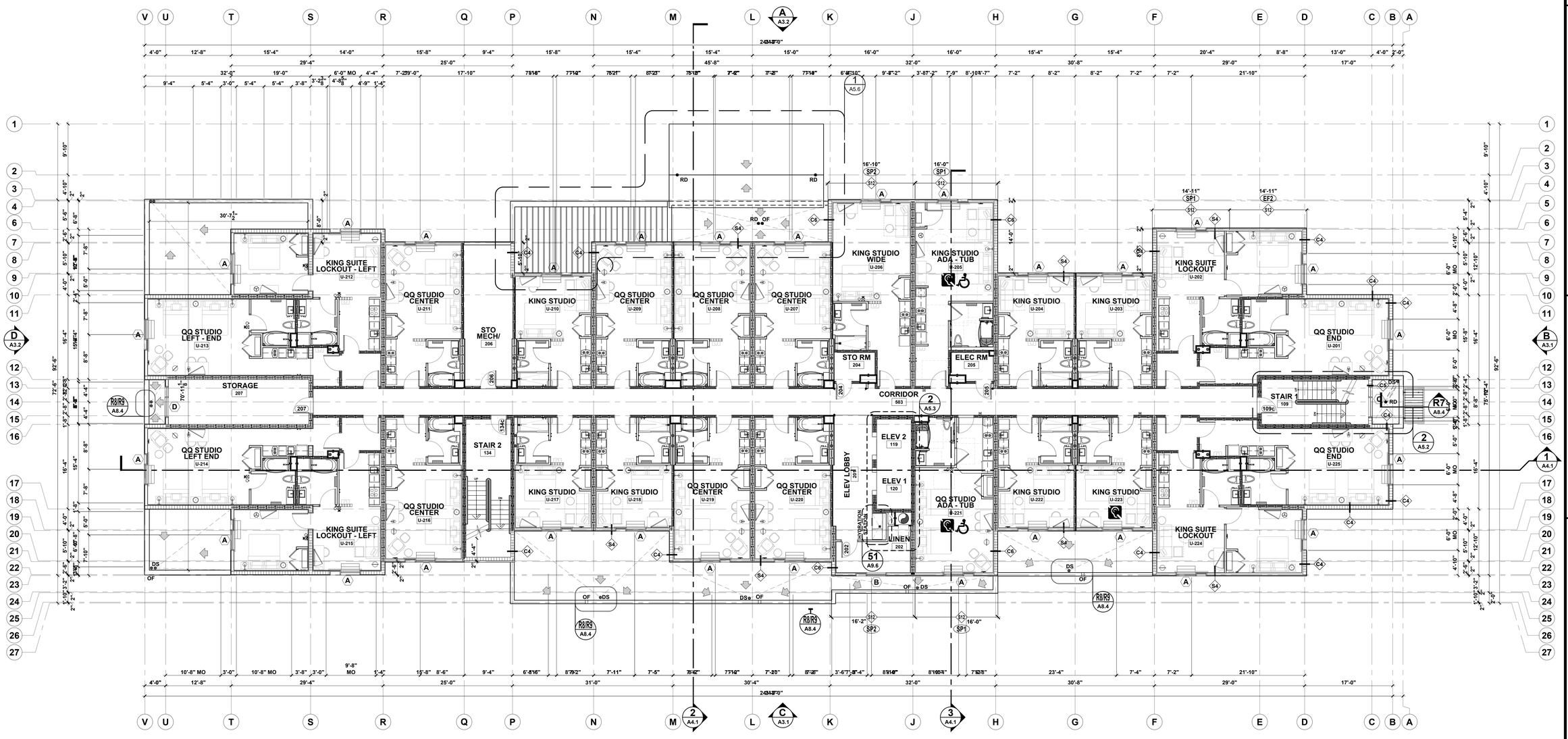

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B 2ND FLOOR BUILDING PLAN

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

2ND FLOOR UNIT DATA

UNIT TYPE	TOTAL	SHO/TUB	ADA UNIT/S	SPECIAL ACCESSIBILITY	HEARING IMPAIRED UNITS
QQ - STUDIO CENTER	7 UNITS	TUB			
QUEEN - STUDIO END	2 UNITS	TUB			
QUEEN - STUDIO LEFT - END	2 UNITS	TUB			
QQ - STUDIO ADA TUB	1 UNIT	TUB	U-221		U-221
KING - STUDIO	7 UNITS	SHO			U-223
KING - STUDIO WIDE	1 UNIT	SHO			
KING - SUITE LOCKOUT	2 UNITS	TUB			
KING - SUITE LOCKOUT - LEFT	2 UNITS	TUB			
KING - STUDIO - ADA TUB	1 UNIT	TUB	U-205		U-205
TOTAL UNITS: 25 UNITS			1 UNIT	1 UNIT	2 UNITS

TOTAL AREA: 14,161 SQ. FT.

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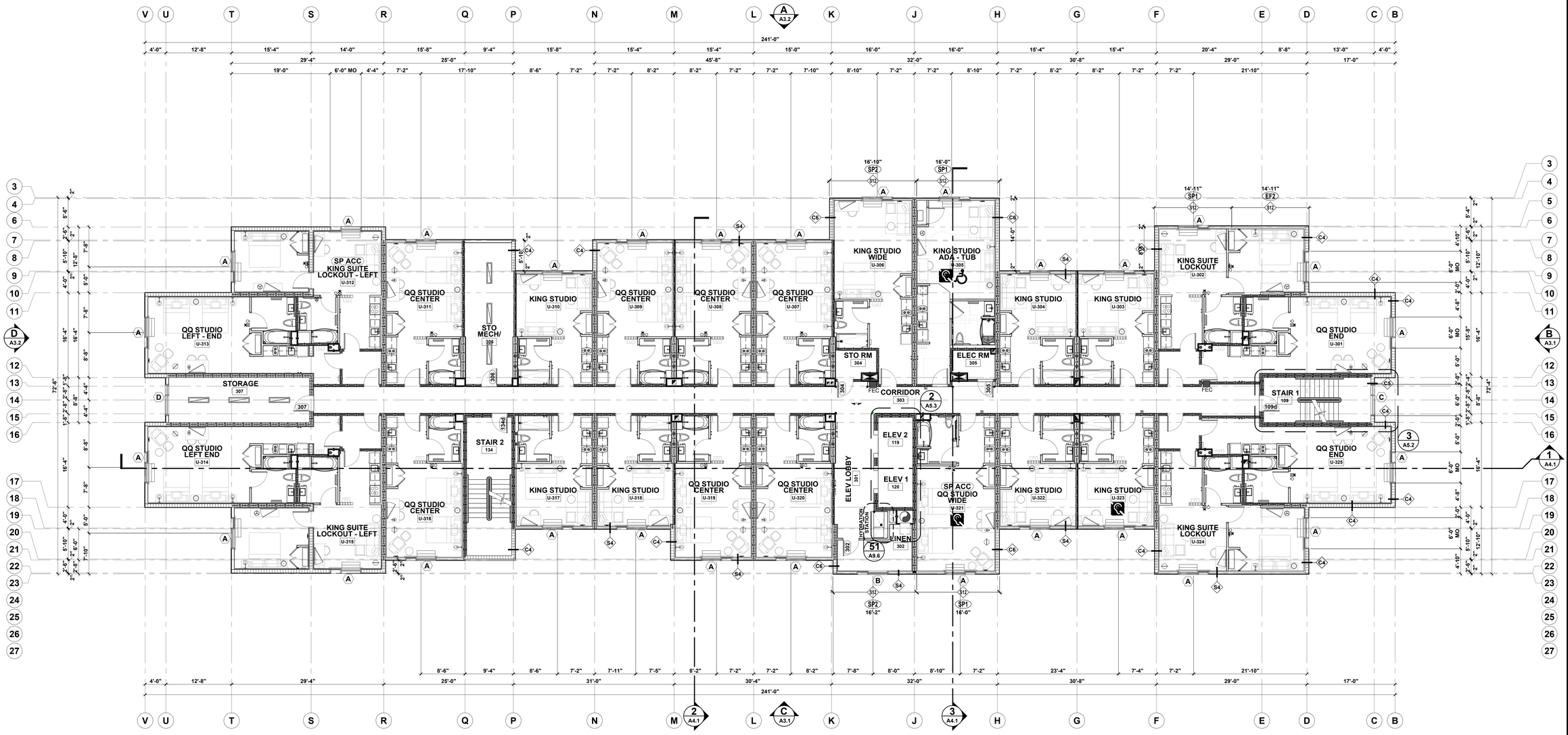

N

C 3RD FLOOR BUILDING PLAN

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

3RD FLOOR UNIT DATA

UNIT TYPE	TOTAL	SHO/TUB	ADA UNIT/S	SPECIAL ACCESSIBILITY	HEARING IMPAIRED UNITS
QQ - STUDIO CENTER	7 UNITS	TUB			
QQ - STUDIO WIDE - SP ACC	1 UNIT	TUB		U-321	U-321
QUEEN - STUDIO END	2 UNITS	TUB			
QUEEN - STUDIO END - LEFT	2 UNITS	TUB			
KING - STUDIO	7 UNITS	SHO			U-323
KING - STUDIO WIDE	1 UNIT	SHO			
KING - SUITE LOCKOUT	2 UNITS	TUB			
KING - SUITE LOCKOUT - LEFT	1 UNIT	TUB			
KING - SUITE LOCKOUT - SP ACC - LEFT	1 UNIT	TUB		U-312	
KING - STUDIO - ADA TUB	1 UNIT	TUB	U-305		U-305
TOTAL UNITS: 25 UNITS			1 UNIT	2 UNITS	3 UNITS

TOTAL AREA: 14,161 SQ. FT.

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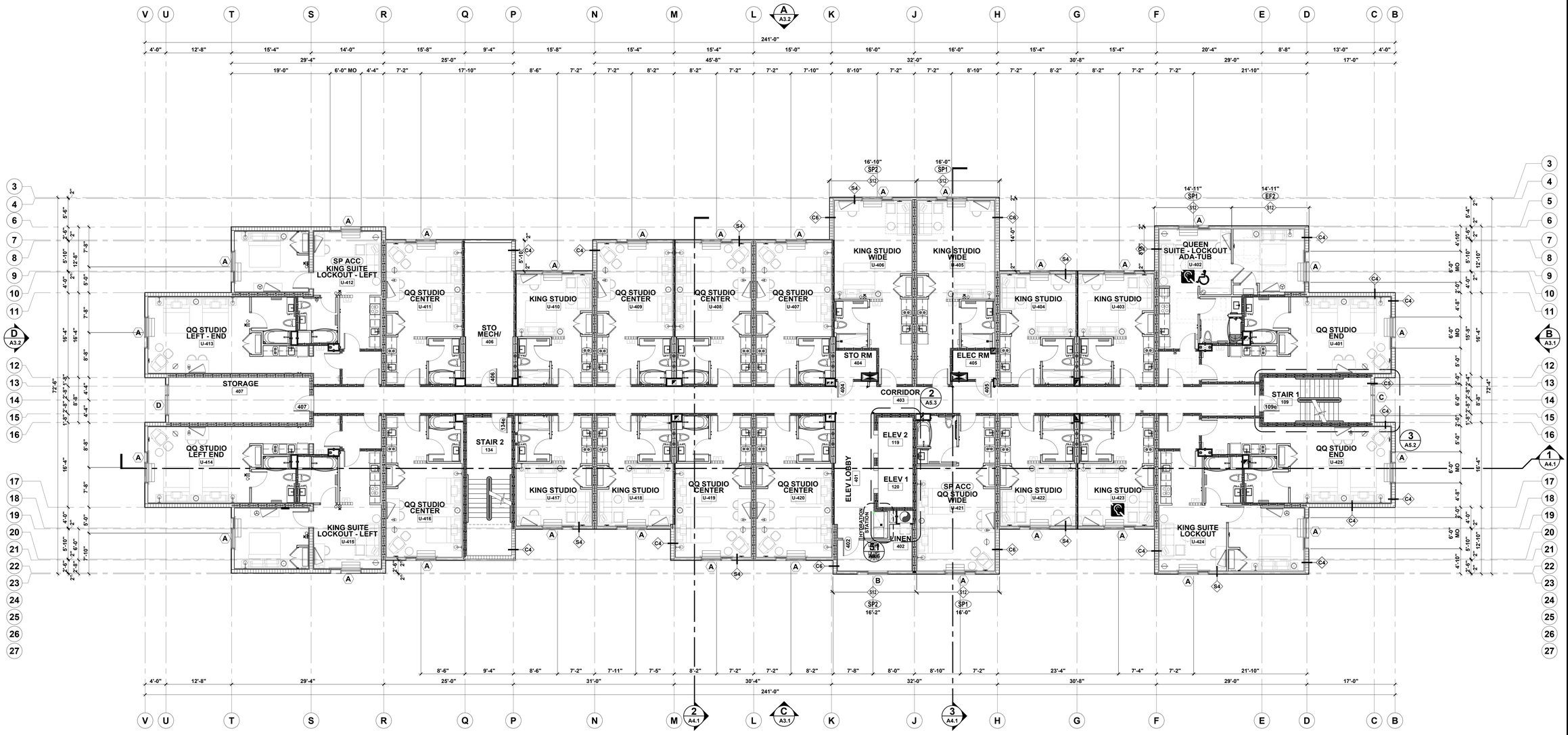

N

D 4TH FLOOR BUILDING PLAN

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

4TH FLOOR UNIT DATA

UNIT TYPE	TOTAL	SHO/TUB	ADA UNIT/S	SPECIAL ACCESSIBILITY	HEARING IMPAIRED UNITS
QQ - STUDIO CENTER	7 UNITS	TUB			
QQ - STUDIO WIDE - SP ACC	1 UNIT	TUB		U-421	
QUEEN - STUDIO END	2 UNITS	TUB			
QUEEN - STUDIO LEFT - END	2 UNITS	TUB			
QUEEN - SUITE LOCKOUT - TUB -ADA	1 UNIT	TUB	U-402		U-402
KING - STUDIO	7 UNITS	SHO			U-423
KING - STUDIO WIDE	2 UNITS	SHO			
KING - SUITE LOCKOUT	1 UNIT	TUB			
KING - SUITE LOCKOUT - LEFT	1 UNIT	TUB			
KING - SUITE LOCKOUT - LEFT - SP ACC	1 UNIT	TUB		U-412	
TOTAL UNITS: 25 UNITS			1 UNIT	2 UNITS	2 UNITS

TOTAL AREA: 14,161 SQ. FT.

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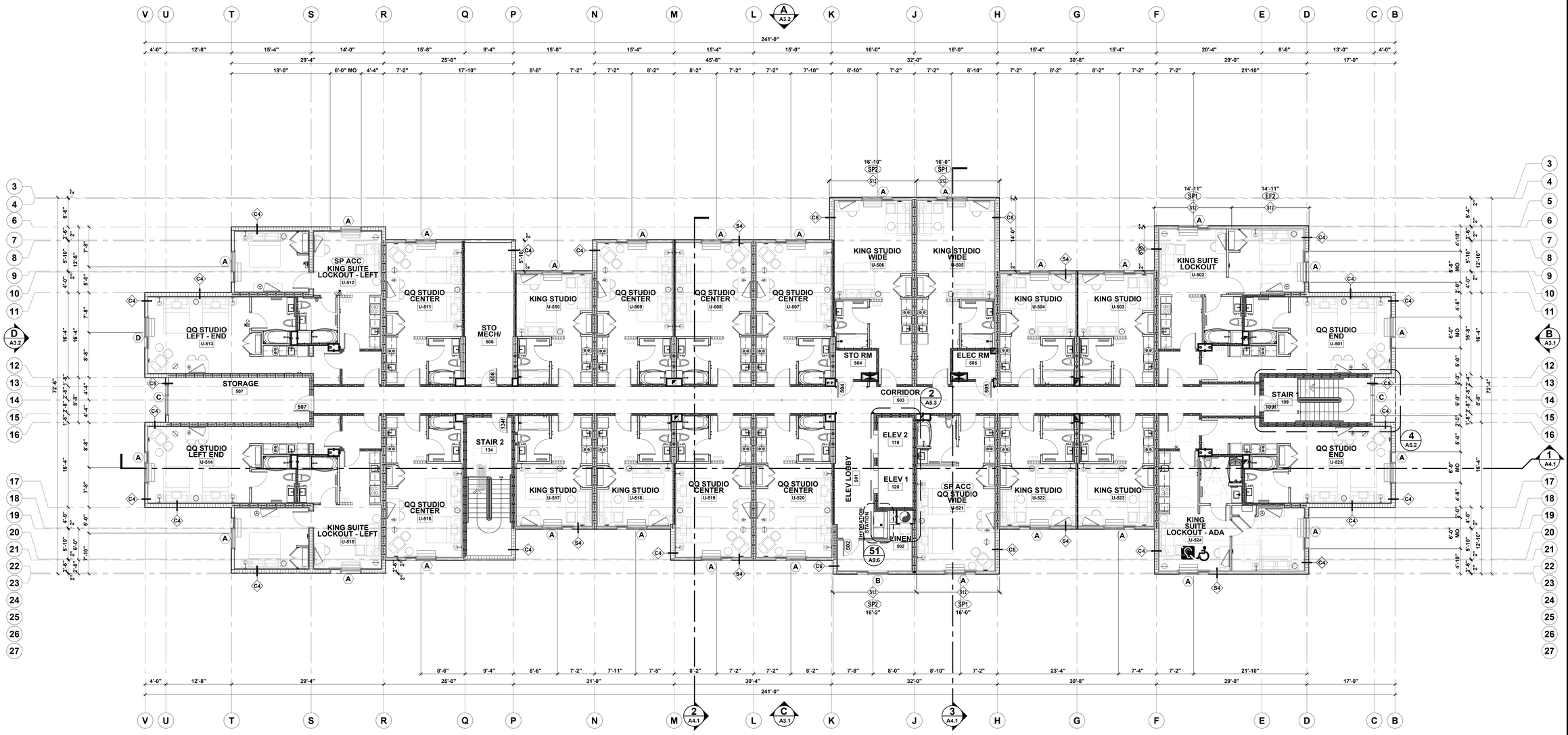

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E 5TH FLOOR BUILDING PLAN

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

5TH FLOOR UNIT DATA

UNIT TYPE	TOTAL	SHO/TUB	ADA UNIT/S	SPECIAL ACCESSIBILITY	HEARING IMPAIRED UNITS
QQ - STUDIO CENTER	7 UNITS	TUB			
QQ - STUDIO WIDE - SP ACC	1 UNIT	TUB		U-521	
QUEEN - STUDIO END	2 UNITS	TUB			
QUEEN - STUDIO END LEFT	2 UNITS	TUB			
KING - STUDIO	7 UNITS	SHO			
KING - STUDIO WIDE	2 UNITS	SHO			
KING - SUITE LOCKOUT	1 UNIT	TUB			
KING - SUITE LOCKOUT - LEFT	1 UNIT	TUB			
KING - SUITE LOCKOUT - LEFT - SP ACC	1 UNIT	TUB		U-512	
KING - SUITE LOCKOUT - ADA - TUB	1 UNIT	TUB	U-524		U-524
TOTAL UNITS: 25 UNITS			1 UNIT	2 UNITS	1 UNIT

TOTAL AREA: 14,161 SQ. FT.

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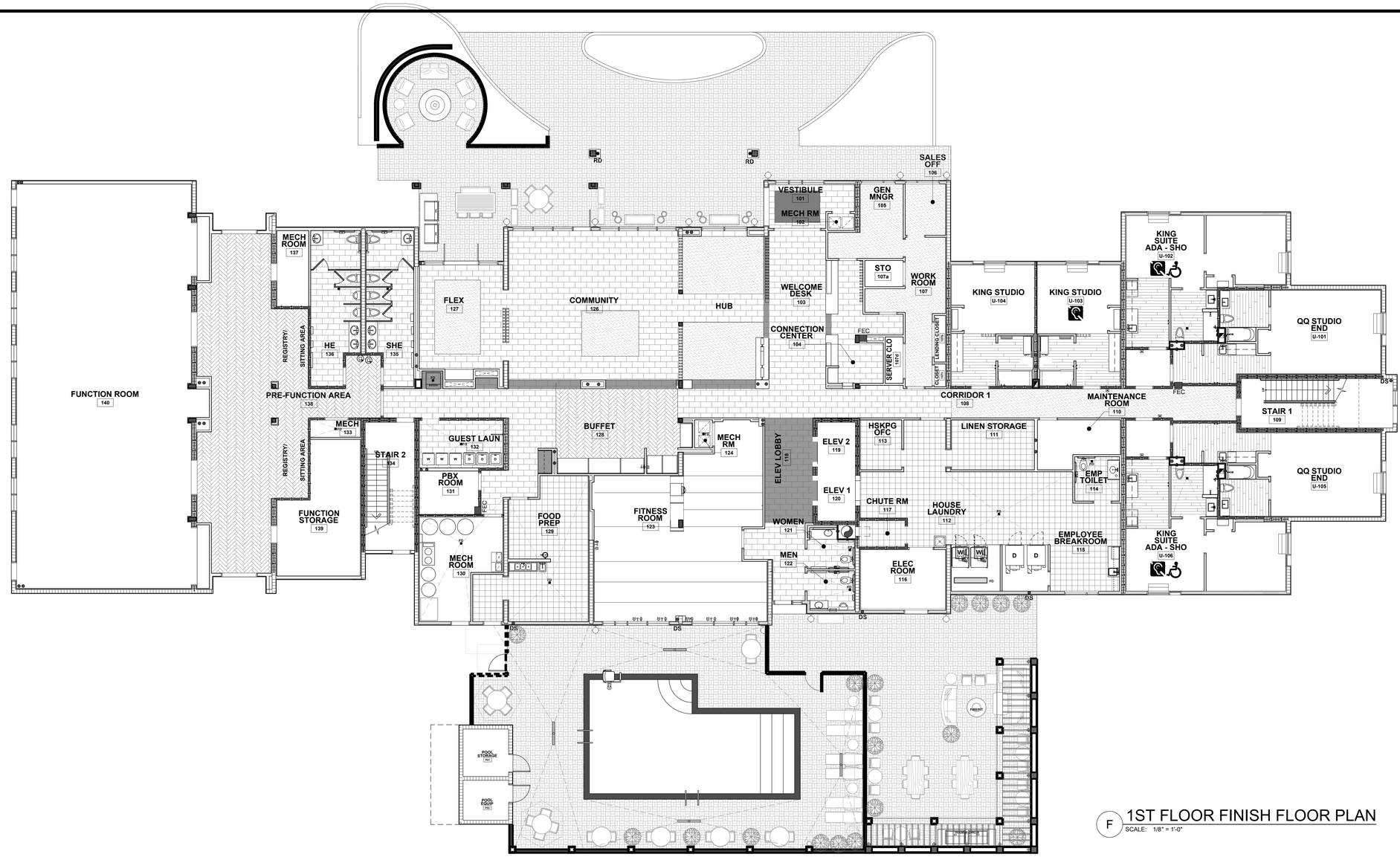
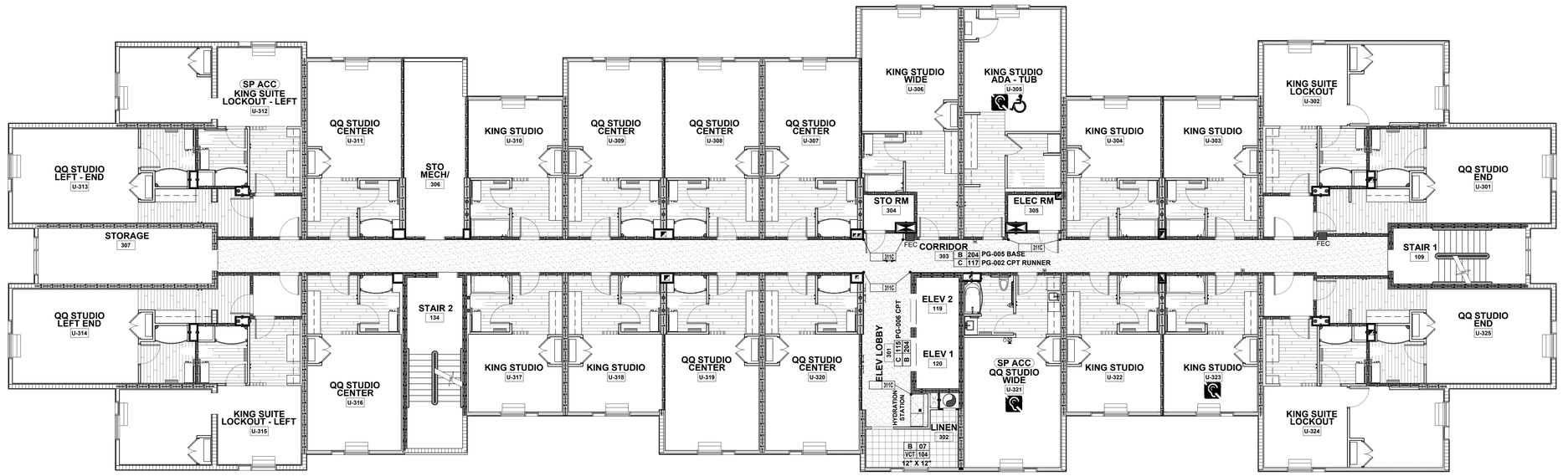


F 1ST FLOOR FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"



G TYPICAL UPPER FLOOR FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

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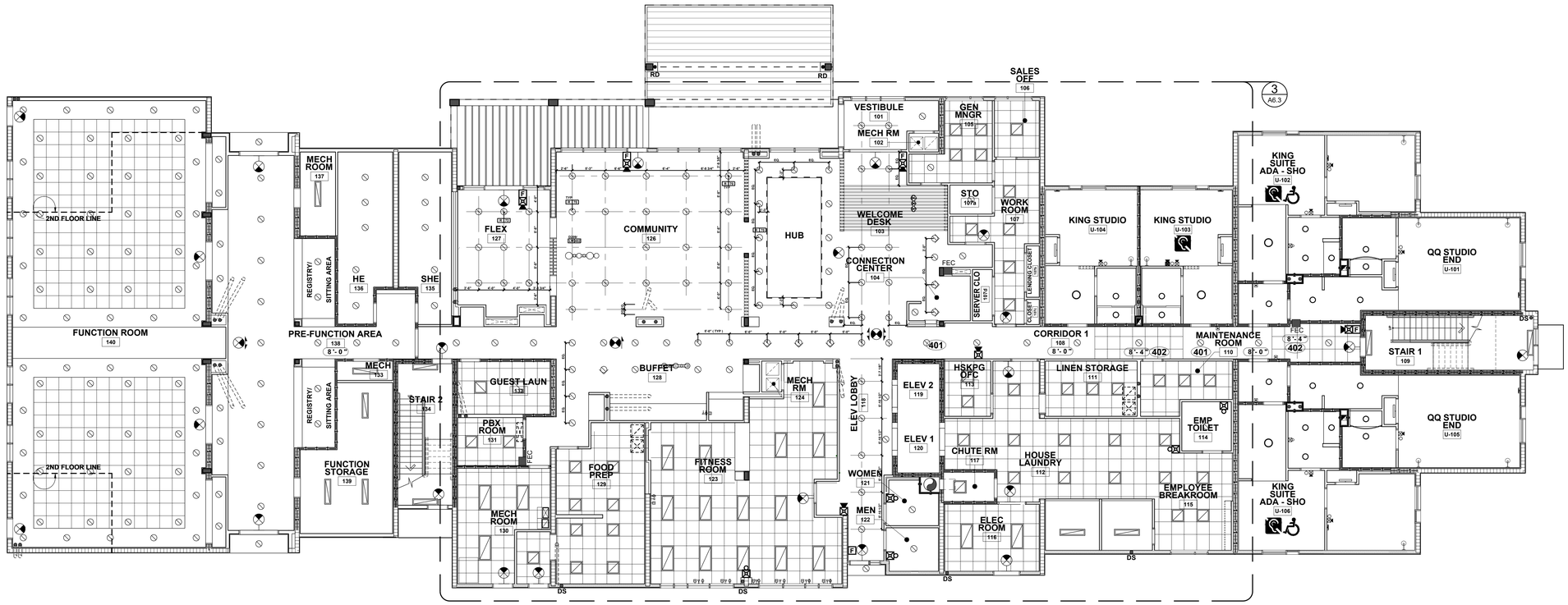

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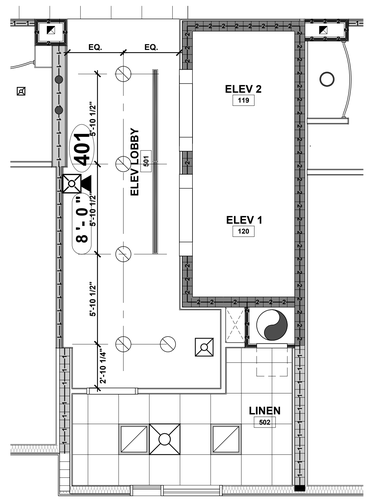
H 1ST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



J TYP UPPER FLOOR LOBBY REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

CEILING SCHEDULE

CEILING HEIGHT
9'-6" / CEILING FINISH

A	PRIMED & PAINTED GYPSUM BOARD
B	PRIMED & PAINTED GYPSUM BOARD MOISTURE RESISTANT
C	PAINTED EXPOSED UNDERSIDE STRUCTURE
D	2x2 LAY-IN ACOUSTICAL CEILING TILE SUSPENDED FROM STRUCTURAL
E	2x4 LAY-IN ACOUSTICAL CEILING TILE SUSPENDED FROM STRUCTURAL
F	2x4 LAY-IN ACOUSTICAL CEILING TILE SUSPENDED FROM STRUCTURAL INFILLED W/ ¾" VINYL FACED GYP BOARD PANEL
G	LARGE FORMAT ACOUSTIC TILE WITH EDGE TRIM (ACT-01)
H	LARGE FORMAT ACOUSTIC TILE WITH EDGE TRIM (ACT-02)

CEILING LEGEND

	EMERGENCY EXIT LIGHT PER ELECTRICAL PLAN
	2' x 2' RECESSED FIXTURE
	2' x 2' RECESSED DIRECT / INDIRECT FIXTURE
	2' x 4' RECESSED FIXTURE
	1' x 4' SURFACE MOUNTED FLOURESCENT LIGHT
	4' STRIP LIGHTING FIXTURE SURFACE MOUNTED
	WALL MOUNTED LIGHT FIXTURE
	DECORATIVE WALL MOUNTED SCONCE.
	RECESSED LIGHTING FIXTURE
	SURFACE MOUNTED CAN LIGHTING FIXTURE
	PENDANT LIGHT - SEE PLANS FOR CONFIGURATION & SIZE
	TRACK W/ ADJUSTABLE TRACK HEADS
	LED COVE LIGHTING STRIP FIXTURE
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	EXHAUST FAN
	LINEAR DIFFUSER
S	SPEAKER

CEILING DIMENSION

CENTER FIXTURE IN SPACE
- CENTER THE FIXTURE IN SPACE IDENTIFIED BY DIAGONAL LINE.

ALIGN FIXTURES
- ALIGN FIXTURES ALONG CENTERLINE SHOWN

CENTER OVER
- CENTER FIXTURE OVER CENTERLINE OF ADJACENT CONSTRUCTION

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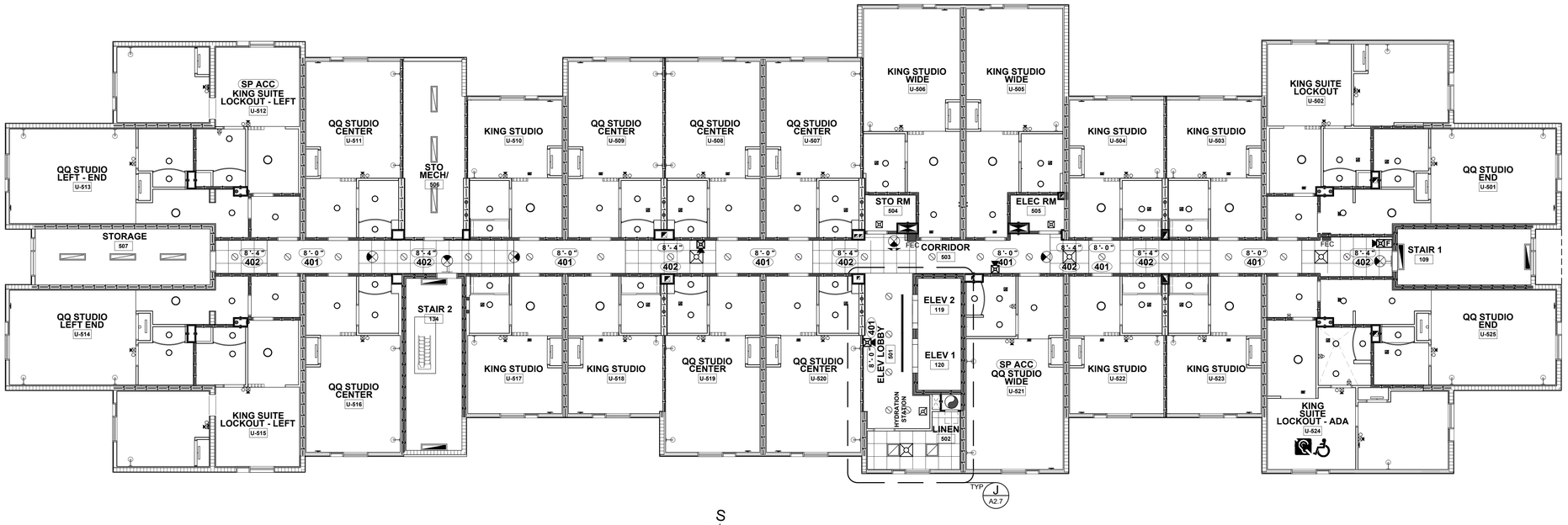
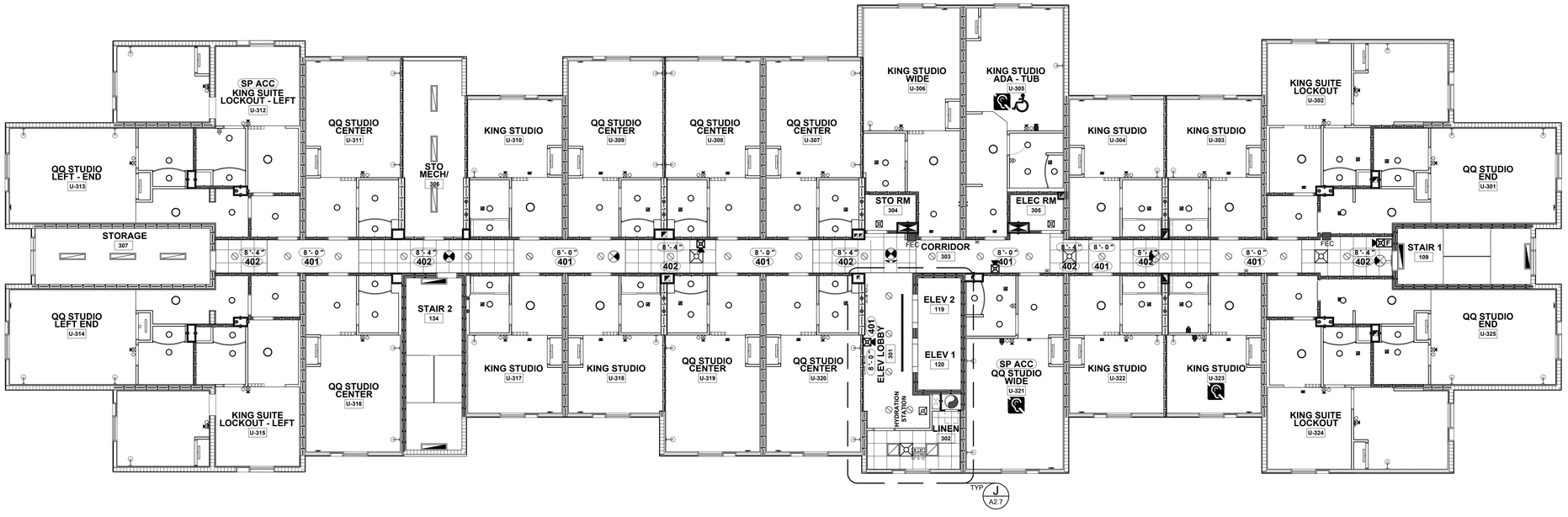


K 5TH FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



J TYP 2ND - 4TH FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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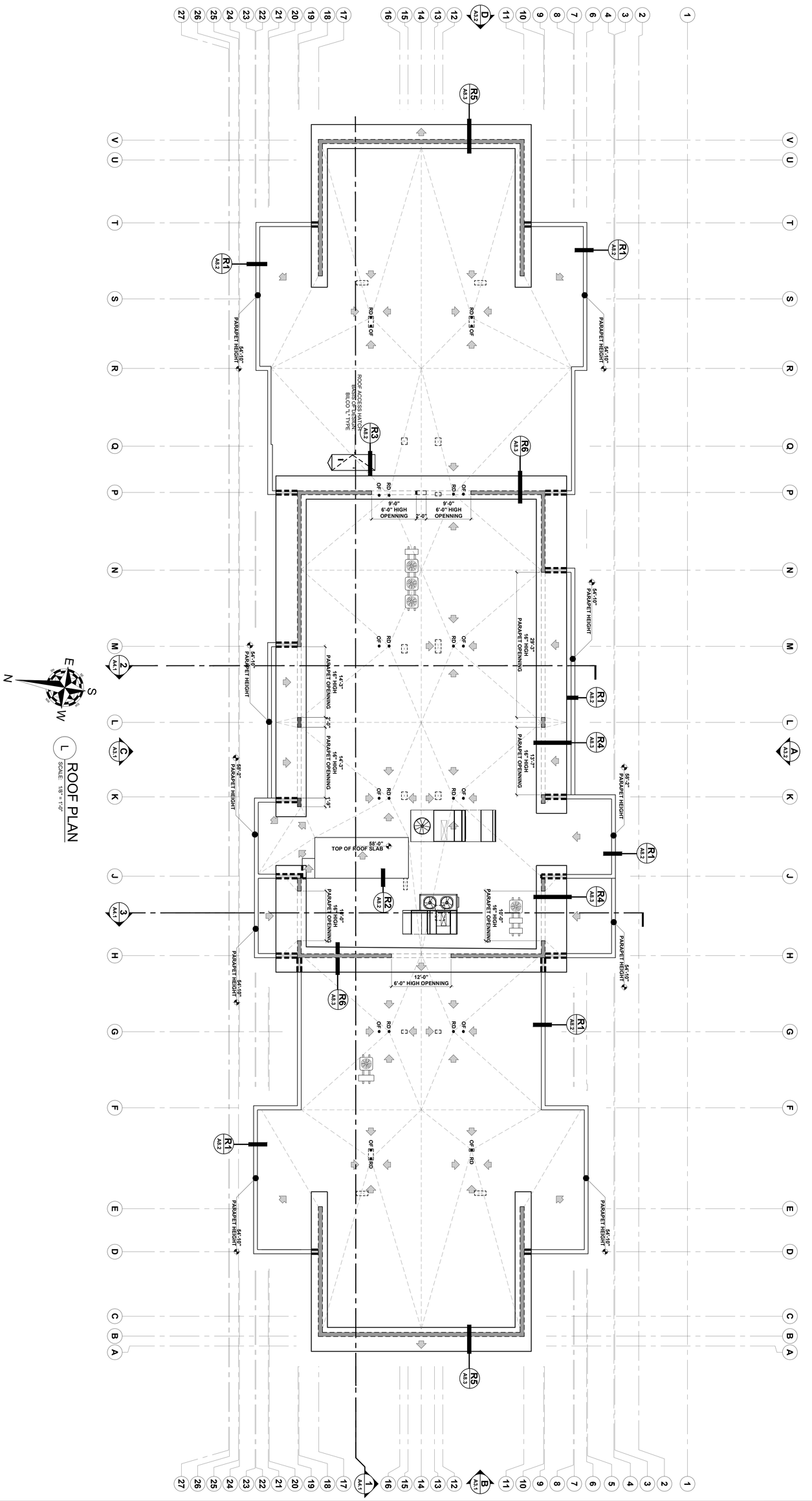

N E S W

L ROOF PLAN

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

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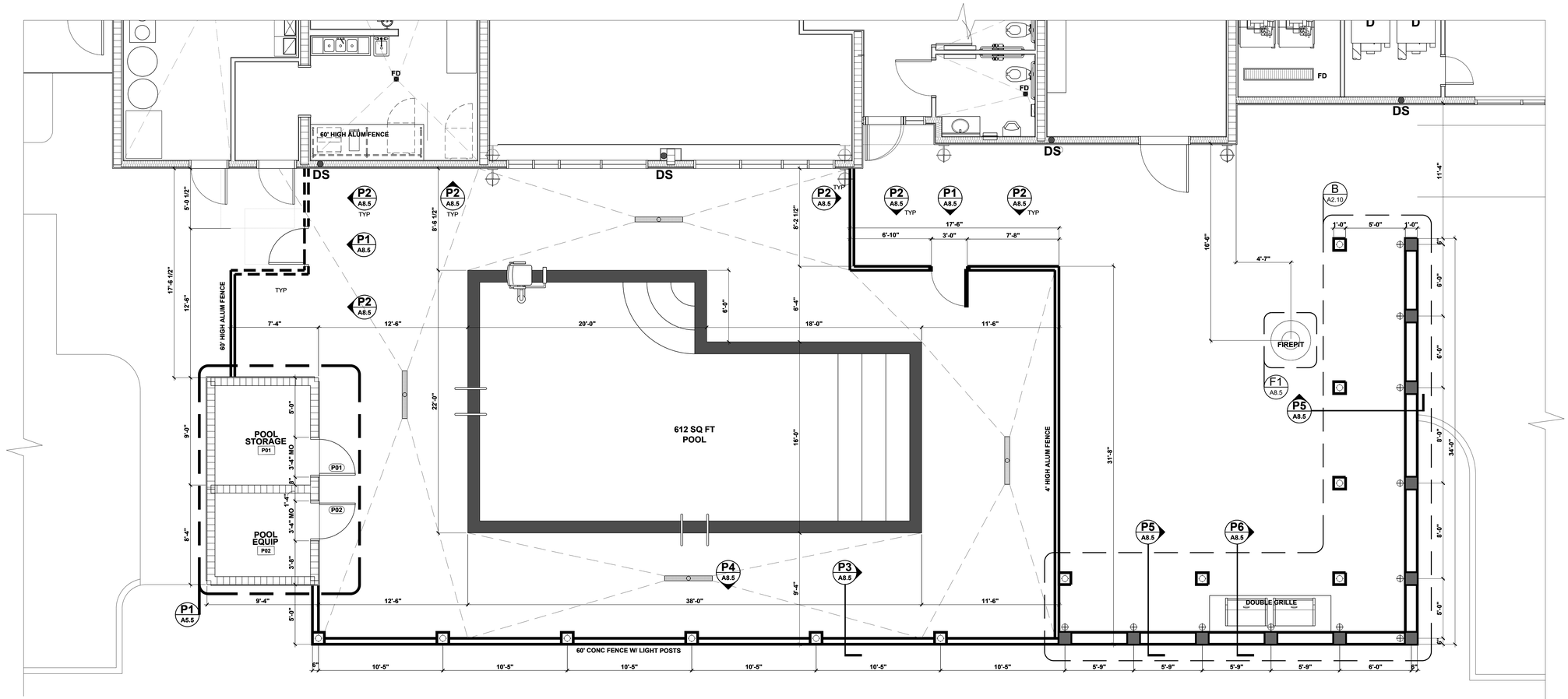
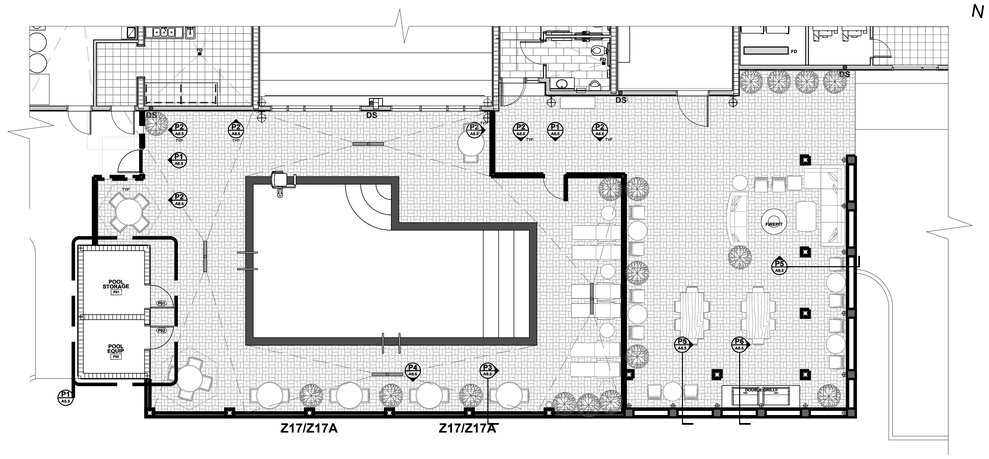


S E W N

A A2.10 POOL PLAN SCALE: 1/4" = 1'-0"

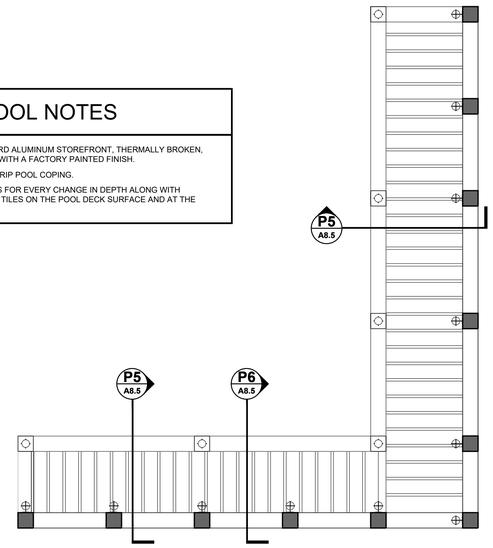


S E W N

C A2.10 FURNITURE LAYOUT AND POOL FLOOR FINISH PLAN SCALE: 1/8" = 1'-0"

POOL NOTES

1. WINDOWS MUST BE STANDARD ALUMINUM STOREFRONT, THERMALLY BROKEN, WITH CLEAR DUAL GLAZING WITH A FACTORY PAINTED FINISH.
2. PROVIDE CONCRETE HANDGRIP POOL COPING.
3. PROVIDE DEPTH INDICATORS FOR EVERY CHANGE IN DEPTH ALONG WITH INTERNATIONAL "NO DIVING" TILES ON THE POOL DECK SURFACE AND AT THE WATERLINE BAND OF TIME.



S E W N

B A2.10 POOL TRELLIS ROOF PLAN SCALE: 1/4" = 1'-0"

AA C000606

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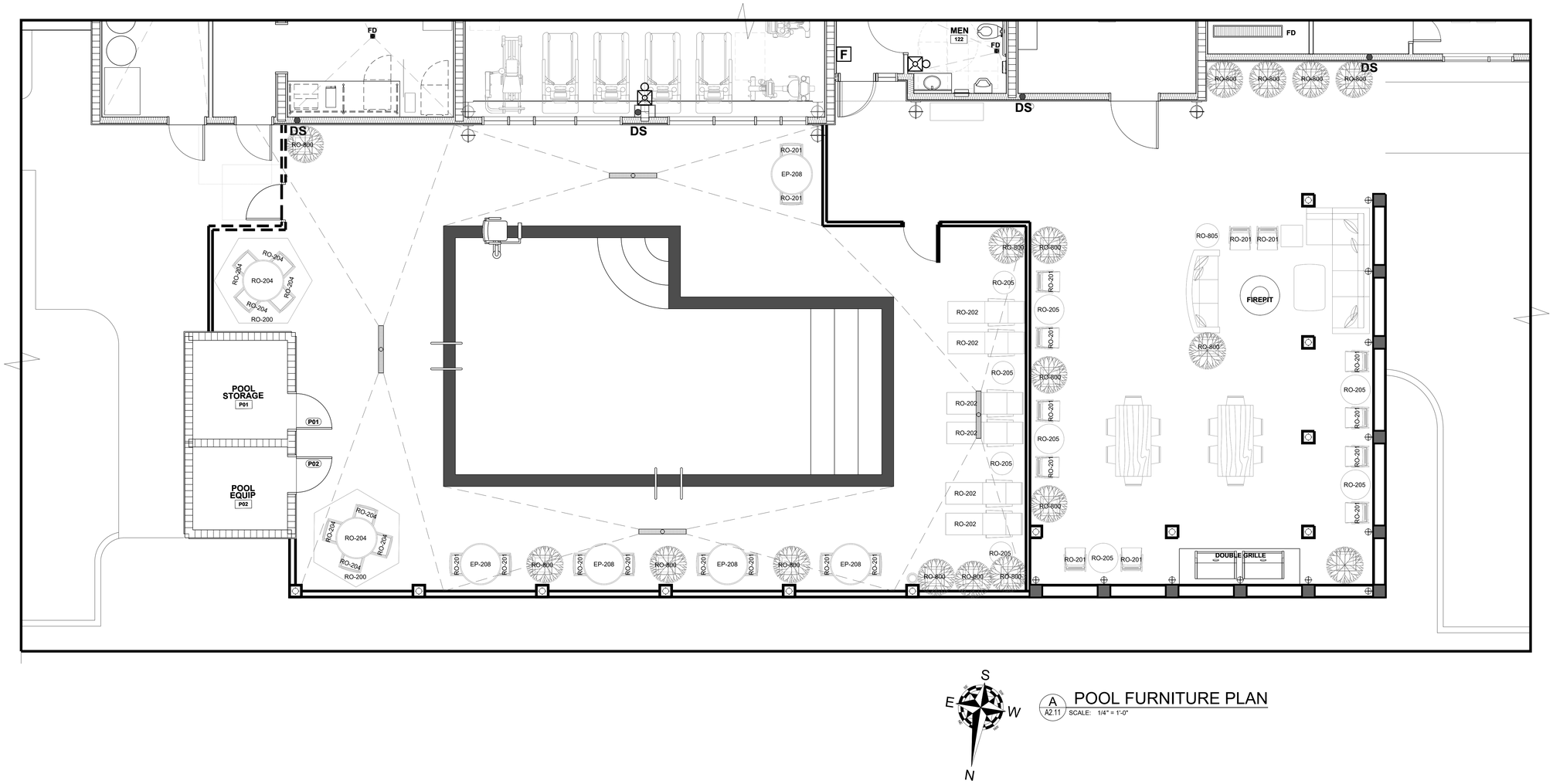

A2.11 POOL FURNITURE PLAN

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

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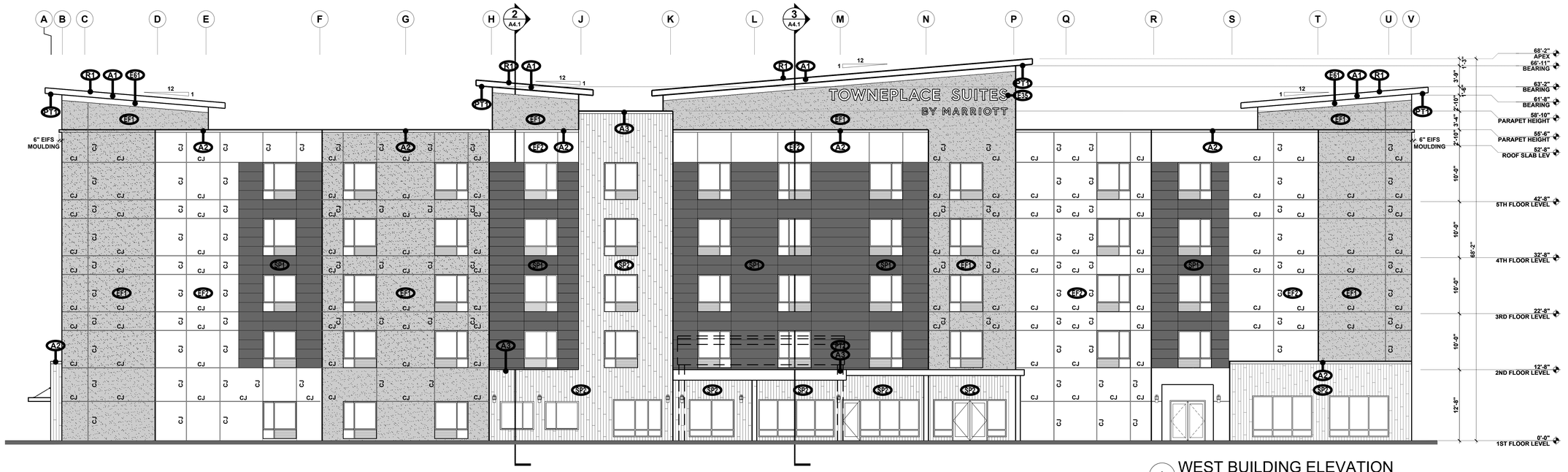


A WEST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

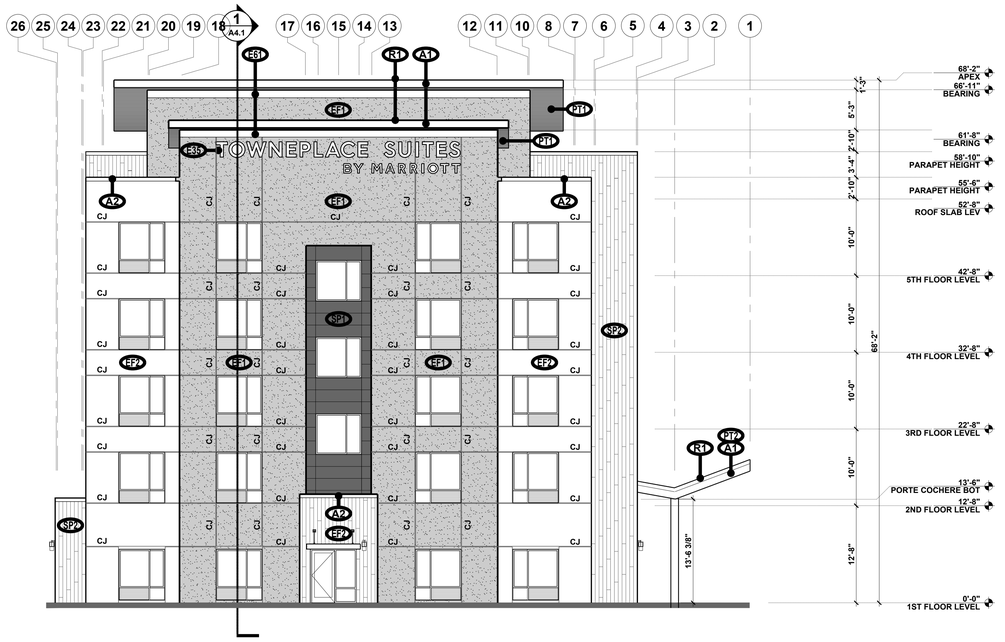
MATERIAL SCHEDULE

	EF1	EIFS 1
	EF2	EIFS 2
	EF3	EIFS 3
	SP1	FIBER CEMENT SIDING PANEL
	SP2	FIBER CEMENT SIDING PANEL
	A1	ALUMINUM COPING
	A2	ALUMINUM COPING COLOR TO MATCH ADJACENT SURFACE
	A3	ALUMINUM COPING
	RT1	SLOPED MEMBRANE ROOFING
	PT1	PAINTED SURFACE
	PT2	PAINTED SURFACE
	ES1	EXTERIOR SIGNAGE PROVIDE ACCESS MOUNTING & BLOCKING REF TO ELECTRICAL PLANS
	LF1	BOTTOM OF SOFFIT LINEAR LIGHT FIXTURE

1. PTAC LOUVERINTEGRAL WITH WINDOW FRAME TO MATCH FINISH

2. CONTINUE FINISH TO INSIDE CORNER VERSUS FINISH TRANSITIONS AT OUTSIDE CORNER.

3. ALL DOWNSPOUTS MUST HAVE CLEANOUTS.



B NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

AA C000606

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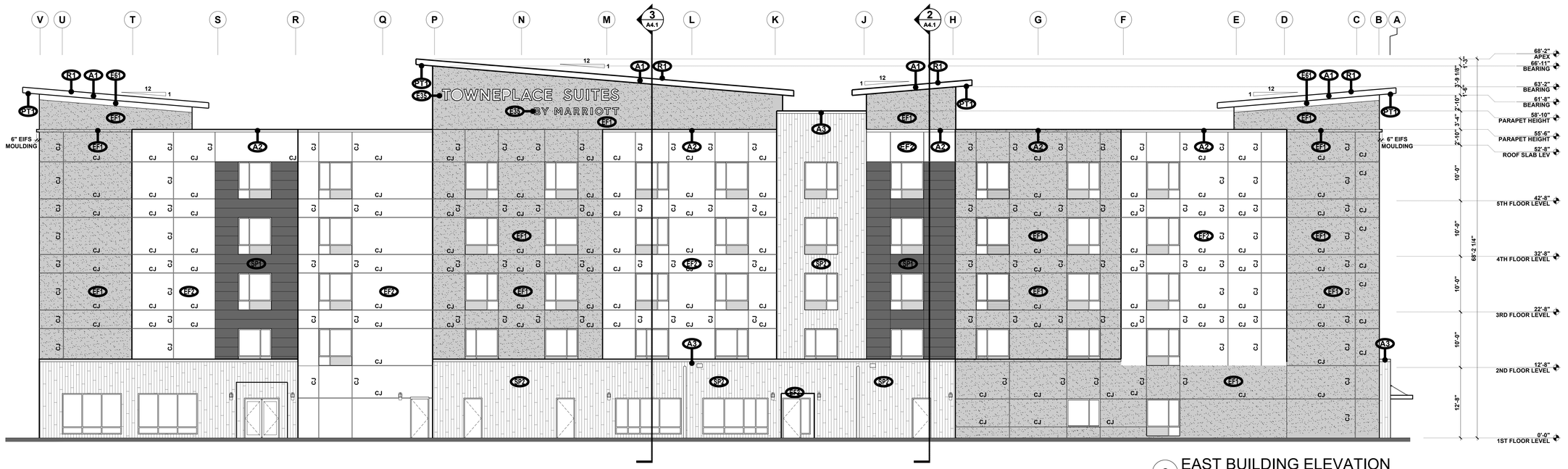


C EAST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

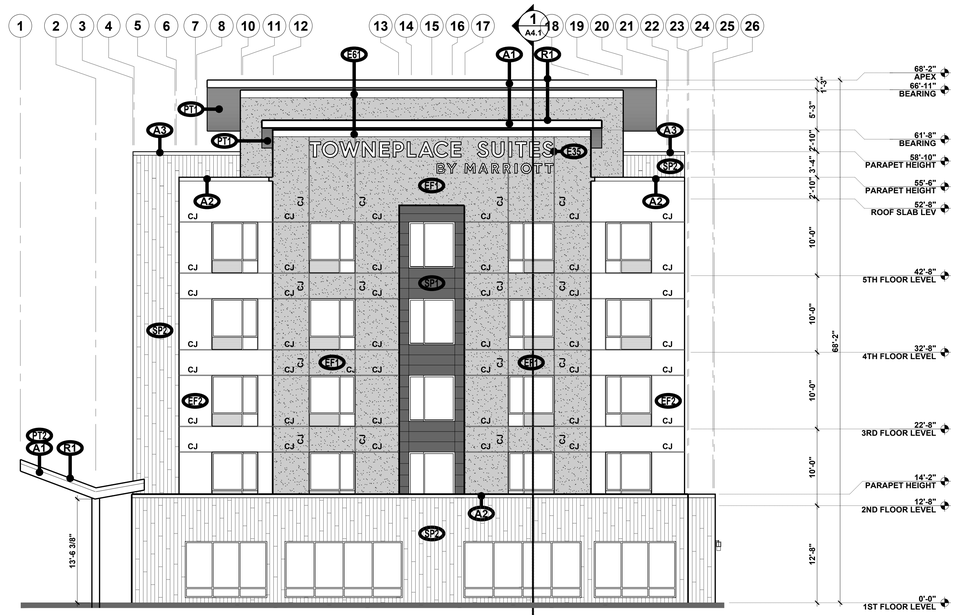
MATERIAL SCHEDULE

	EFS1	EIFS 1
	EFS2	EIFS 2
	EFS3	EIFS 3
	SP1	FIBER CEMENT SIDING PANEL
	SP2	FIBER CEMENT SIDING PANEL
	A1	ALUMINUM COPING
	A2	ALUMINUM COPING COLOR TO MATCH ADJACENT SURFACE
	A3	ALUMINUM COPING
	RT1	SLOPED MEMBRANE ROOFING
	PT1	PAINTED SURFACE
	PT2	PAINTED SURFACE
	ES1	EXTERIOR SIGNAGE PROVIDE ACCESS MOUNTING & BLOCKING REF TO ELECTRICAL PLANS
	EF1	BOTTOM OF SOFFIT LINEAR LIGHT FIXTURE

1. PTAC LOUVERINTEGRAL WITH WINDOW FRAME TO MATCH FINISH

2. CONTINUE FINISH TO INSIDE CORNER VERSUS FINISH TRANSITIONS AT OUTSIDE CORNER.

3. ALL DOWNSPOUTS MUST HAVE CLEANOUTS.



D SOUTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

AA C000606

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NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

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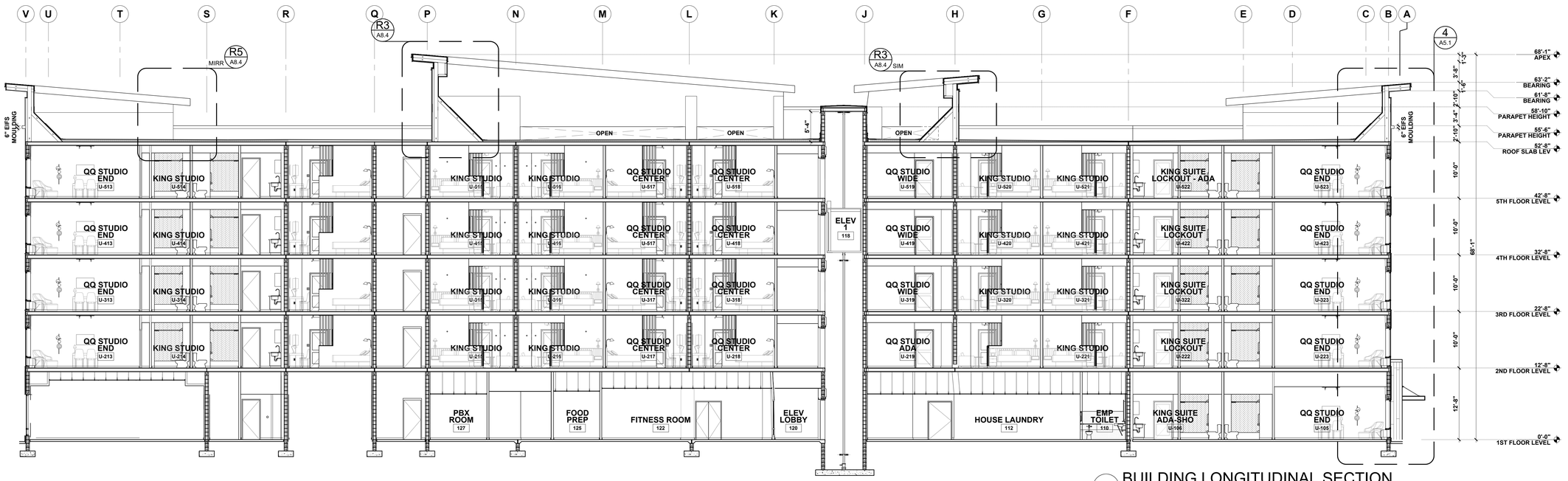
A3.2

OF



1 BUILDING LONGITUDINAL SECTION
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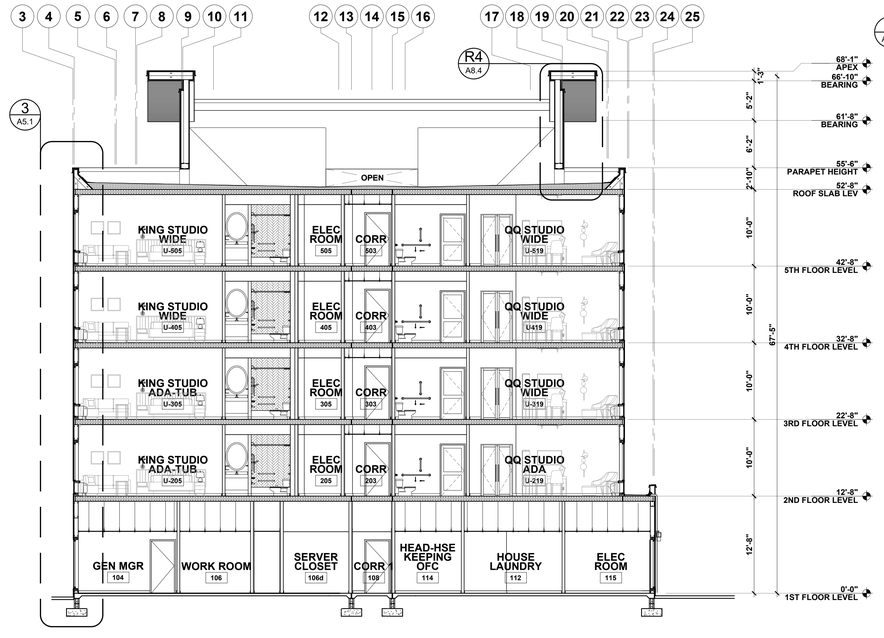

3 BUILDING CROSS SECTION
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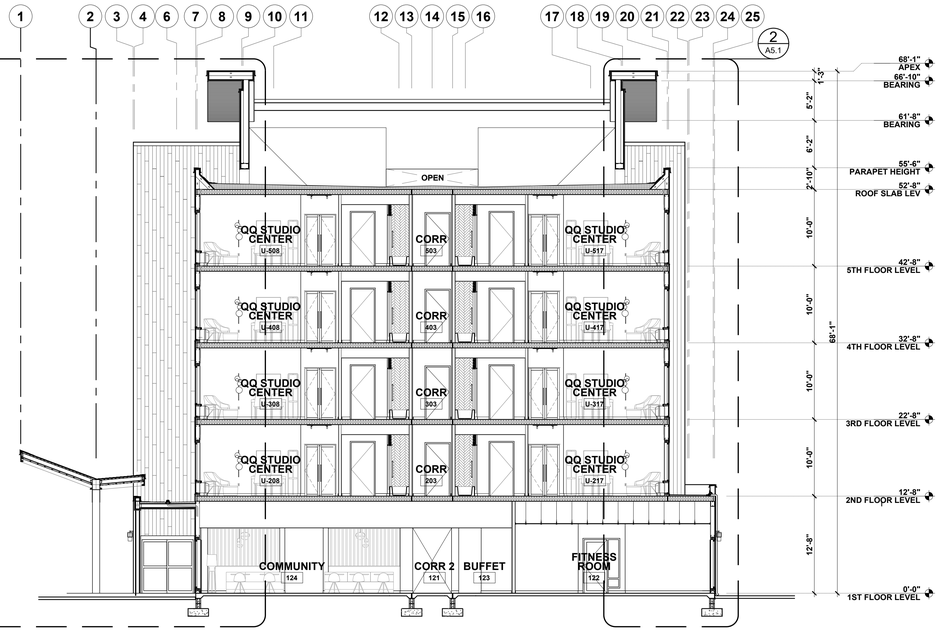

2 BUILDING CROSS SECTION
SCALE: 1/8" = 1'-0"

AA C000606

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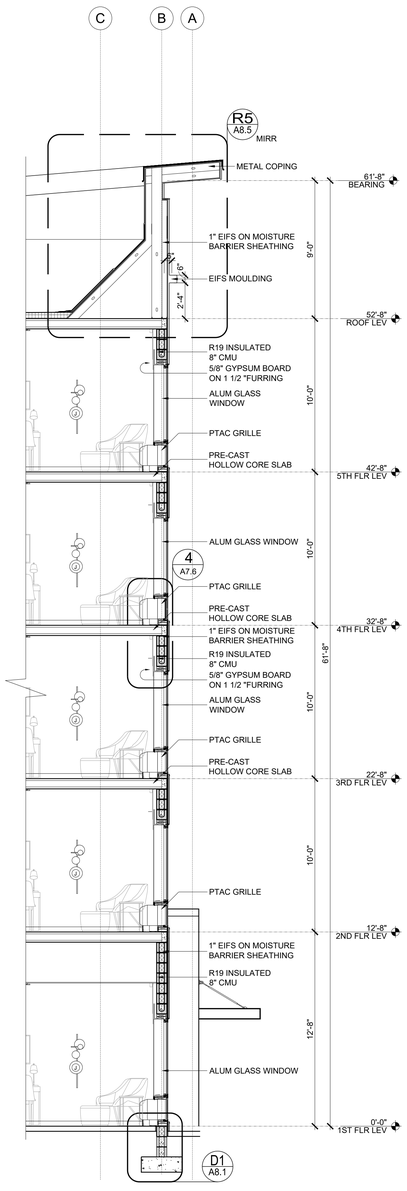

4 A5.1 WALL SECTION
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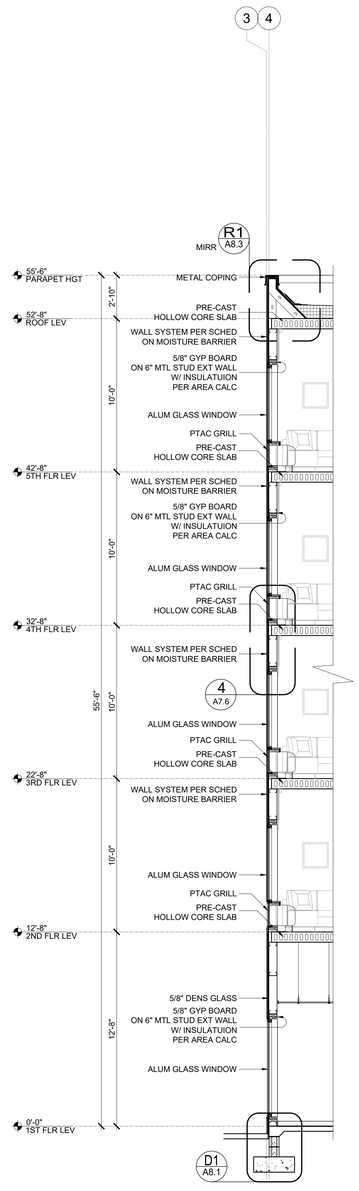

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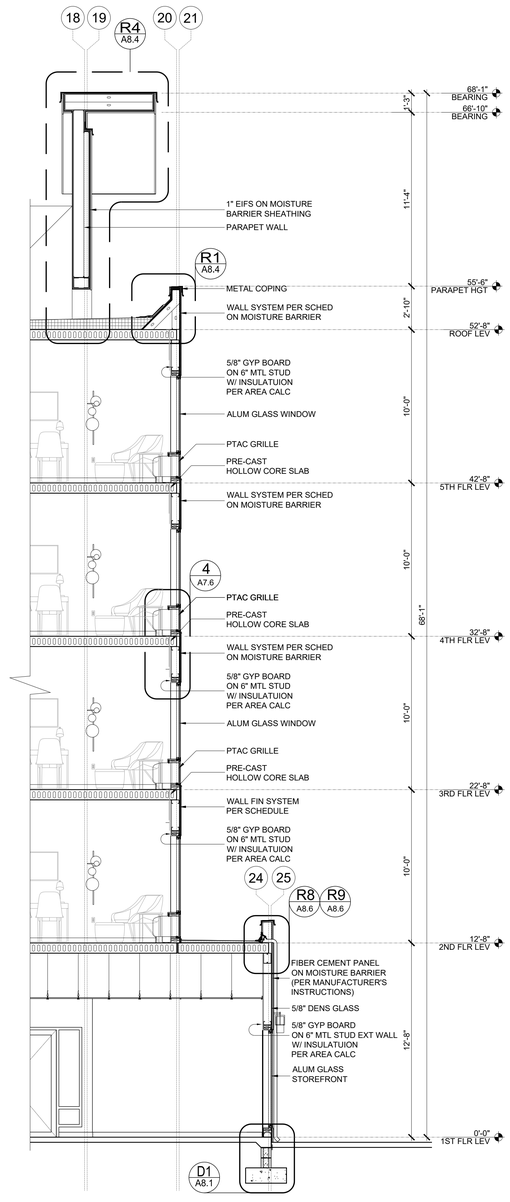
SCALE: 1/4" = 1'-0"



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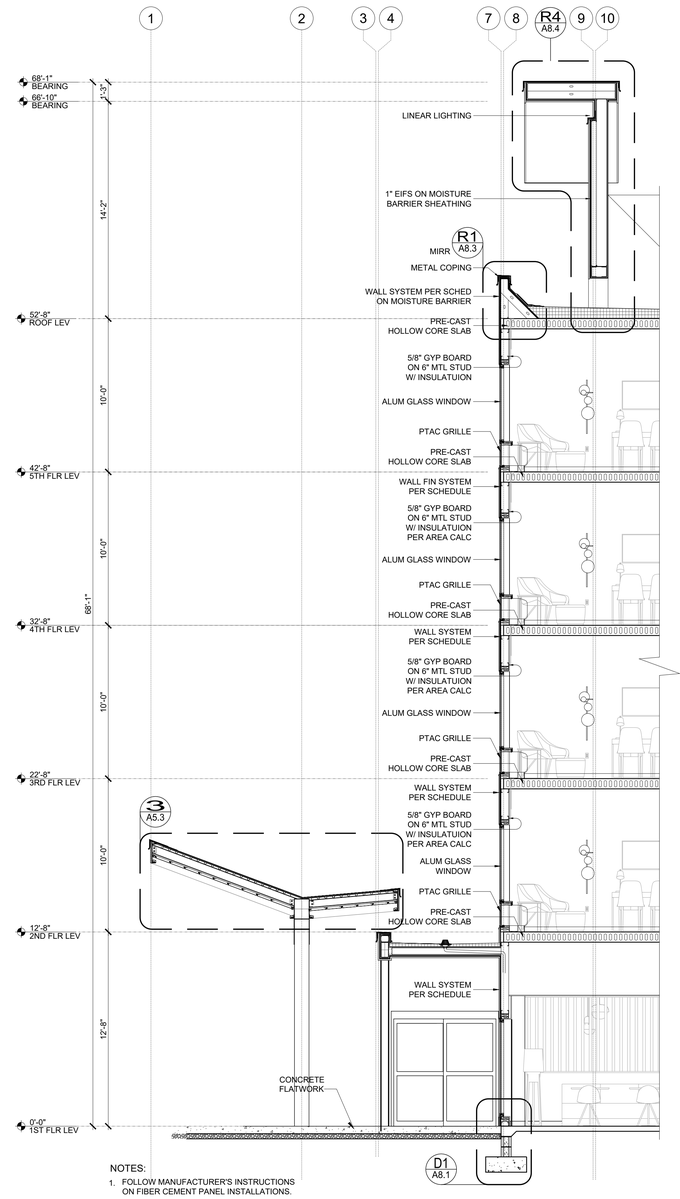

NOTES:
1. FOLLOW MANUFACTURER'S INSTRUCTIONS ON FIBER CEMENT PANEL INSTALLATIONS.
2. PROVIDE EXTRUDED ALUMINUM CHANNEL TRANSITION CLIP ON EFIS AND FIBER CEMENT PANEL TRANSITION.
3. PROVIDE 2 LAYERS OF SHEATHING TO ALLOW ALLIGNMENT OF FIBER CEMENT PANEL TO ADJACENT EIFS ASSEMBLY.

1 A5.1 WALL SECTION
SCALE: 1/4" = 1'-0"

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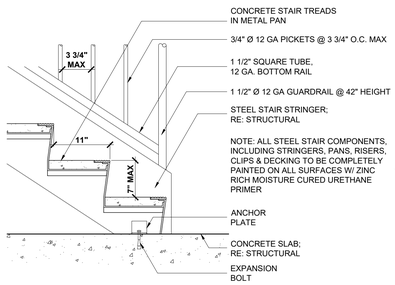
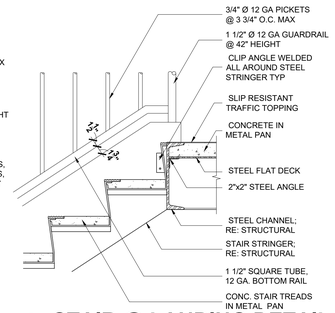
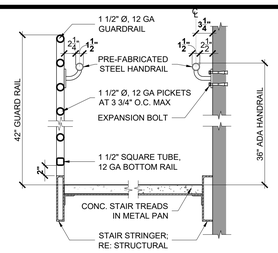


14 STAIR @ GROUND DETAIL
A5.2 SCALE: 1 " = 1'-0"



13 STAIR @ LANDING DETAIL
A5.2 SCALE: 1 " = 1'-0"



12 STAIR @ SECTION DETAIL
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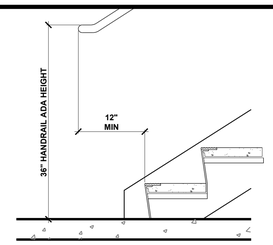
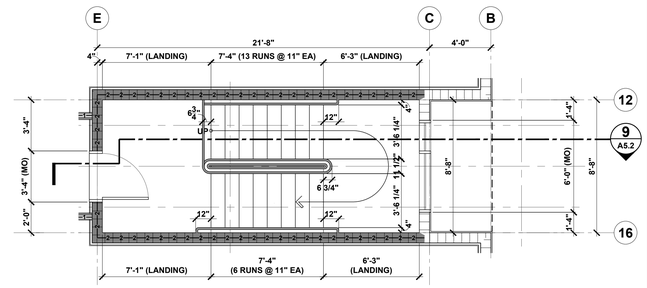
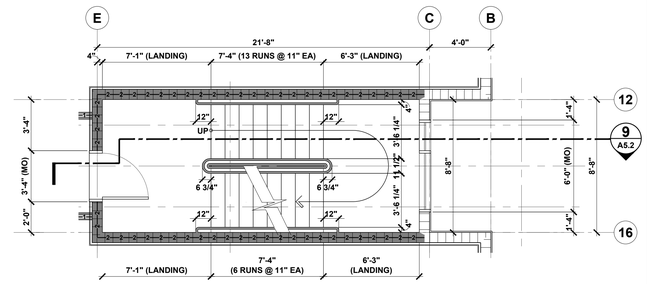


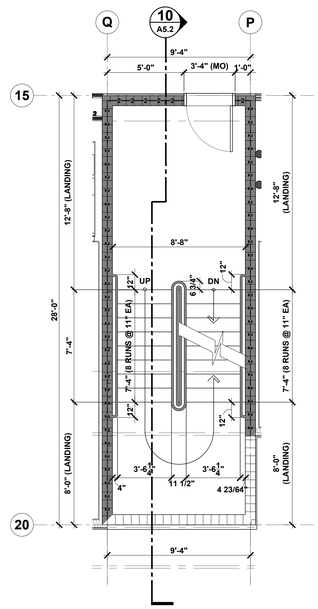
11 HANDRAIL REQ
A5.2 SCALE: 1 " = 1'-0"



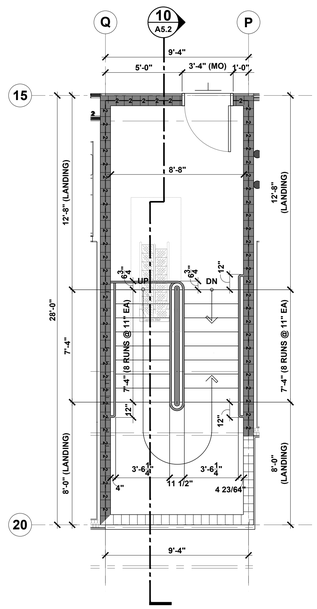
4 5TH FLR STAIR 1 PLAN
A5.2 SCALE: 1/4" = 1'-0"



3 TYP 3RD & 4TH FLR STAIR 1 PLAN
A5.2 SCALE: 1/4" = 1'-0"



STAIR 2 PLAN TYP 3RD & 4TH FLRS
A5.2 SCALE: 1/4" = 1'-0"



STAIR 2 PLAN TYP 3RD & 4TH FLRS
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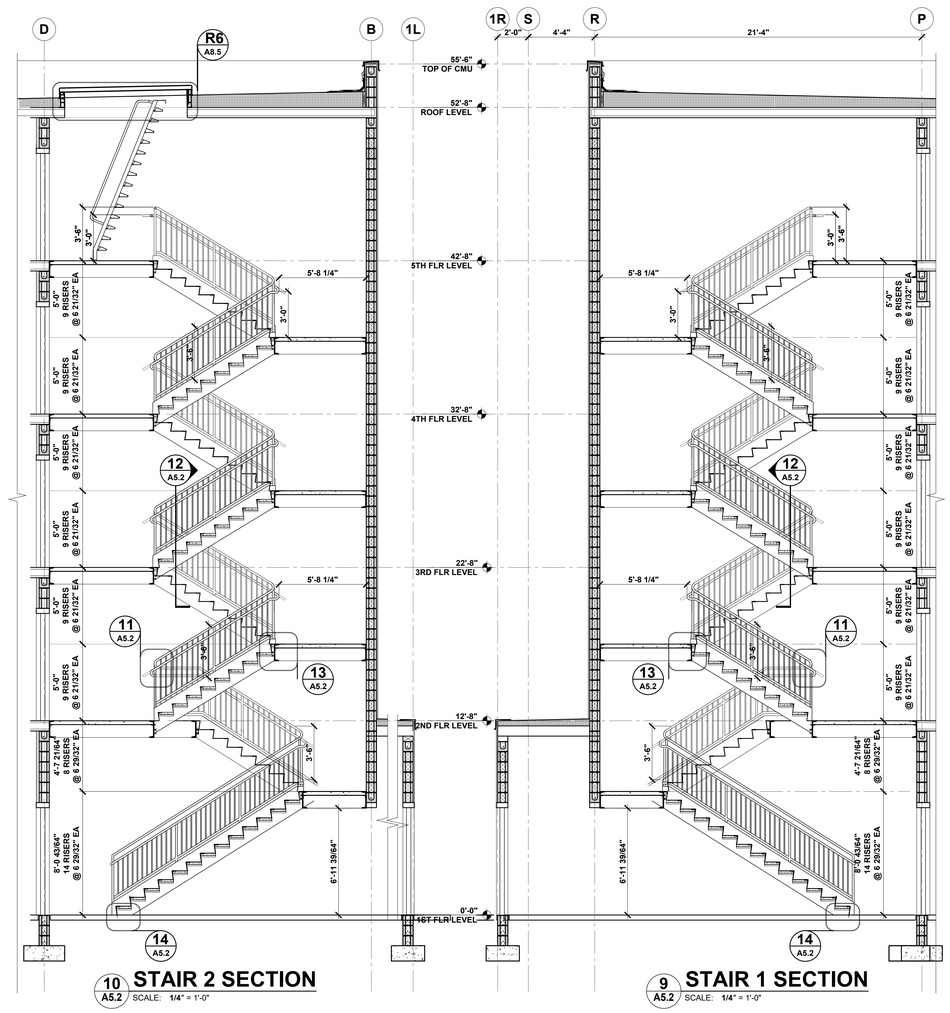
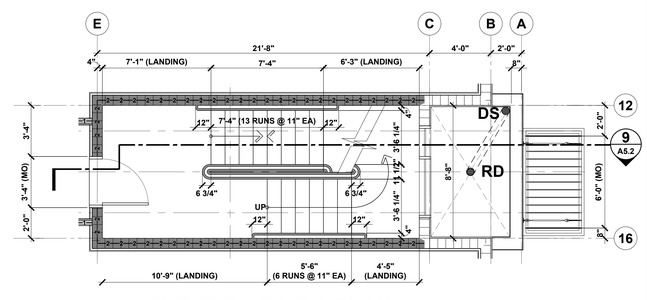
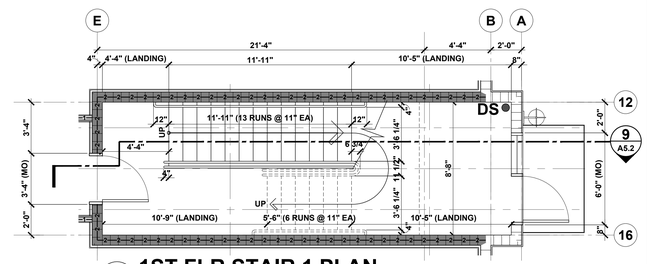


10 STAIR 2 SECTION
A5.2 SCALE: 1/4" = 1'-0"

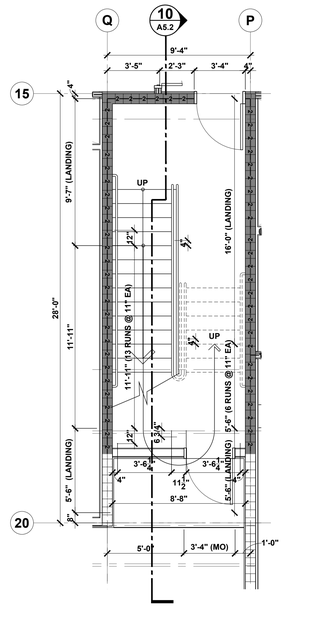
9 STAIR 1 SECTION
A5.2 SCALE: 1/4" = 1'-0"



2 2ND FLR STAIR 1 PLAN
A5.2 SCALE: 1/4" = 1'-0"



1 1ST FLR STAIR 1 PLAN
A5.2 SCALE: 1/4" = 1'-0"



5 1ST FLR STAIR 2 PLAN
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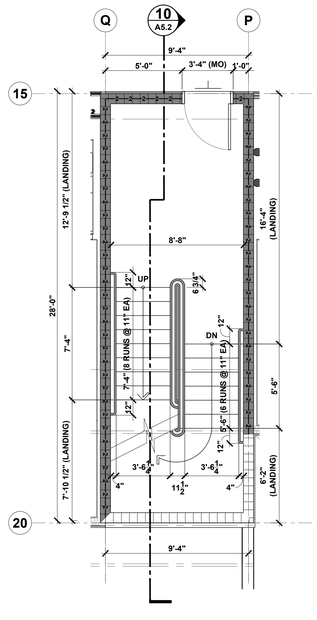

6 2ND FLR STAIR 2 PLAN
A5.2 SCALE: 1/4" = 1'-0"

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GENERAL REQUIREMENTS

1. PROPERLY FRAMED AND ENCLOSED LEGAL HOISTWAY INCLUDING VENTING AS REQUIRED BY THE GOVERNING CODE AND HOISTING BEAM AS SHOWN.
2. ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS NOT TO EXCEED THE VERTICAL SPACING SHOWN ON THE RAIL BRACKET CHART. SEPARATOR BEAMS WHERE REQUIRED.
3. PROVISIONS FOR GUARDING AND PROTECTING THE HOISTWAY DURING CONSTRUCTION TO BE ERECTED, MAINTAINED, AND REMOVED BY OTHERS.
4. ALL CUTTING OR PATCHING TO ACCOMMODATE ELEVATOR INSTALLATION.
5. HOISTWAY WALLS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE W/ THE REQUIRED FIRE RATING (2 HOUR), INCLUDING WHERE PENETRATED BY ELEVATOR FIXTURE BOXES, AND TO INCLUDE ADEQUATE FASTENINGS TO HOISTWAY ASSEMBLIES. A HORIZONTAL SUPPORT MUST BE PROVIDED 12" ABOVE THE CLEAR OPENING AT EACH LANDING TO SUPPORT THE DOOR FRAME ASSEMBLY. THE ENTRANCE WALL AND THE FINISHED FLOOR MUST NOT BE CONSTRUCTED UNTIL THE FRAMES AND SILLS ARE SET.
6. FOR PRECAST OR POURED CONCRETE WALLS, PROVIDE THE ROUGH OPENING FOR HOISTWAY AS SHOWN ON LAYOUT, AND ANY GROUTING AROUND ENTRANCE FRAMES IF REQUIRED.
7. WHERE HOISTWAY CONTAINS ELEVATOR CONTROL EQUIPMENT AND ARE PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM A MEANS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, SECTION 21.4 TO DISCONNECT AUTOMATICALLY THE MAIN LINE POWER SUPPLY TO THE AFFECTED ELEVATOR PRIOR TO THE APPLICATION OF WATER. THIS MEANS SHALL NOT BE SELF RE-SETTING, THE ACTIVATION OF AUTOMATIC SPRINKLERS OUTSIDE THE HOISTWAY SHALL NOT DISCONNECT THE MAIN LINE POWER SUPPLY.
8. WHERE STANDBY POWER IS REQUIRED OR FURNISHED TO OPERATE THE ELEVATOR, THE OPERATION SHALL BE IN ACCORDANCE WITH FBC SECTIONS 3003.1.1 THRU 3003.1.4
9. STANDBY POWER SHALL BE MANUALLY TRANSFERABLE TO ALL ELEVATORS IN EACH BANK
9. FOR EACH ELEVATOR, A THREE PHASE ELECTRICAL FEEDER SYSTEM WITH A SEPARATE EQUIP GROUNDING CONDUCTOR AND A SINGLE PHASE 120 VOLT LIGHTING SUPPLY. EACH WITH A FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER, LOCATED IN THE MACHINE ROOM & WIRED TO EACH CONTROLLER.
10. IN THE PIT, A SEPARATE BRANCH CIRCUIT FOR CONVENIENCE G.F.C.I. OUTLET & LIGHT FIXTURE WITH LIGHT SWITCH ADJACENT TO THE PIT LADDER.
11. ALL ELECTRIC POWER FOR TOOLS, LIGHT, HOIST, ETC., DURING ERECTION AS WELL AS ELECTRIC CURRENT FOR STARTING & ADJUSTING THE ELEVATOR.
12. DRY PIT REINFORCED TO SUSTAIN VERTICAL FORCES OF UP TO:
    11,393/51 LBS/KN AT EACH BUFFER AND
    25,232/113 LBS/KN AT THE CYLINDER HEAD
    THE ACCUMULATION OF WATER MUST BE PREVENTED.
13. A FIXED VERTICAL STEEL LADDER TO PIT EXTENDING 3' 6" ABOVE THE SILL OF THE BOTTOM ENTRANCE AS LOCATED IN THE PLAN VIEW. LADDER WIDTH AND PROJECTION FROM WALL PER LOCAL CODE.
14. IF PIT FLOOR IS TO BE POURED BEFORE WELL HOLE OR CASING IS INSTALLED, A 30" X 30" CUTOUT IN PIT FLOOR SHALL BE PROVIDED. CUTOUT AND PATCHING OF FLOOR NOT BY ELEVATOR MFGR. WHEN THE WELL HOLE IS NOT THE RESPONSIBILITY OF MFGR., THE DRILLING CONTRACTOR SHALL DRILL A WELL HOLE AND INSTALL CASING W/ PLUG AND END CAP. CLEAR HOLE TO BE OF ADEQUATE DEPTH AND Ø FOR MFGR. TO INSTALL A _____ Ø ASSEMBLY PERFECTLY PLUMB AT THE LOCATION INDICATED ON THIS DRAWING.
15. ELEVATOR CAB FLOORING MUST NOT EXCEED A THICKNESS OF 5/16".
16. TELEPHONE CONNECTION TO EACH CONTROLLER. TELEPHONE INSTRUMENT ALSO BY OTHERS.
17. ALL 125 VOLT, 15 OR 20 AMP, SINGLE PHASE DUPLEX RECEPTACLES INSTALLED IN PITS, MACHINE ROOMS OR MACHINERY SPACES, SHALL BE OF THE GROUND-FAULT- CIRCUIT-INTERRUPTER TYPE.
18. ELEVATOR LOBBY SMOKE DETECTORS, LOCATED AS REQUIRED, WITH WIRING FROM THE SENSING DEVICES TO A CONTROLLER DESIGNATED BY MANUFACTURER FOR EACH GROUP OF ELEVATORS, A NORMALLY CLOSED CONTACT FROM THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING. ALSO A NORMALLY CLOSED CONTACT REPRESENTING ALL OTHER SMOKE DETECTORS AT LOBBIES, MACHINE ROOMS, AND HOISTWAY SMOKE DETECTORS. IF A SMOKE DETECTOR IS LOCATED IN THE HOISTWAY AT OR BELOW THE LOWER OF THE TWO DESIGNATED RETURN LANDINGS, IT SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR LOCATED IN THE LOBBY AT THE LOWER OF THE TWO DESIGNATED RETURN LANDINGS.
19. SMOKE DETECTORS SHALL NOT BE USED TO ACTIVATE SPRINKLERS IN HOISTWAYS, MACHINE ROOMS OR MACHINERY SPACES OR TO DISCONNECT THE MAIN LINE POWER SUPPLY.
20. ELEVATOR CAR DESIGNATED FOR EMERGENCY OPERATIONS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES. THE SYMBOL SHALL BE A MIN. OF 3" AND LOCATED INSIDE THE CAR ON BOTH SIDES OF THE DOOR JAMB.
21. ELEVATOR DOORS: INSTALLATION OF SMOKE DOORS SHALL BE IN ACCORDANCE WITH NFPA 10 PER FBC SECTION 716.5.3.1

ELEVATOR REQUIREMENTS

MODEL: SCHINDLER 3300 MRL
GENERAL PURPOSE
TRACTION

- ELEV. #1 3000 LBS. ; 150 F.P.M.
- ELEV. #2 2500 LBS. ; 150 F.P.M.

THE TOP OF ELEVATOR/LIFT CONTROLS ARE MOUNTED NO MORE THAN 48"/1.2 M ABOVE THE FINISHED FLOOR.

EACH ELEVATOR CONTROL PANEL MUST BE EQUIPPED WITH A "DOOR OPEN" BUTTON

ELEVATOR/LIFT WALLS HAVE A HANDRAIL MOUNTED 32"/810 MM ABOVE THE FINISHED FLOOR ON THE BACK WALL OR HAVE HANDRAILS ON BOTH SIDE WALLS.

ELEV PIT REQUIREMENTS

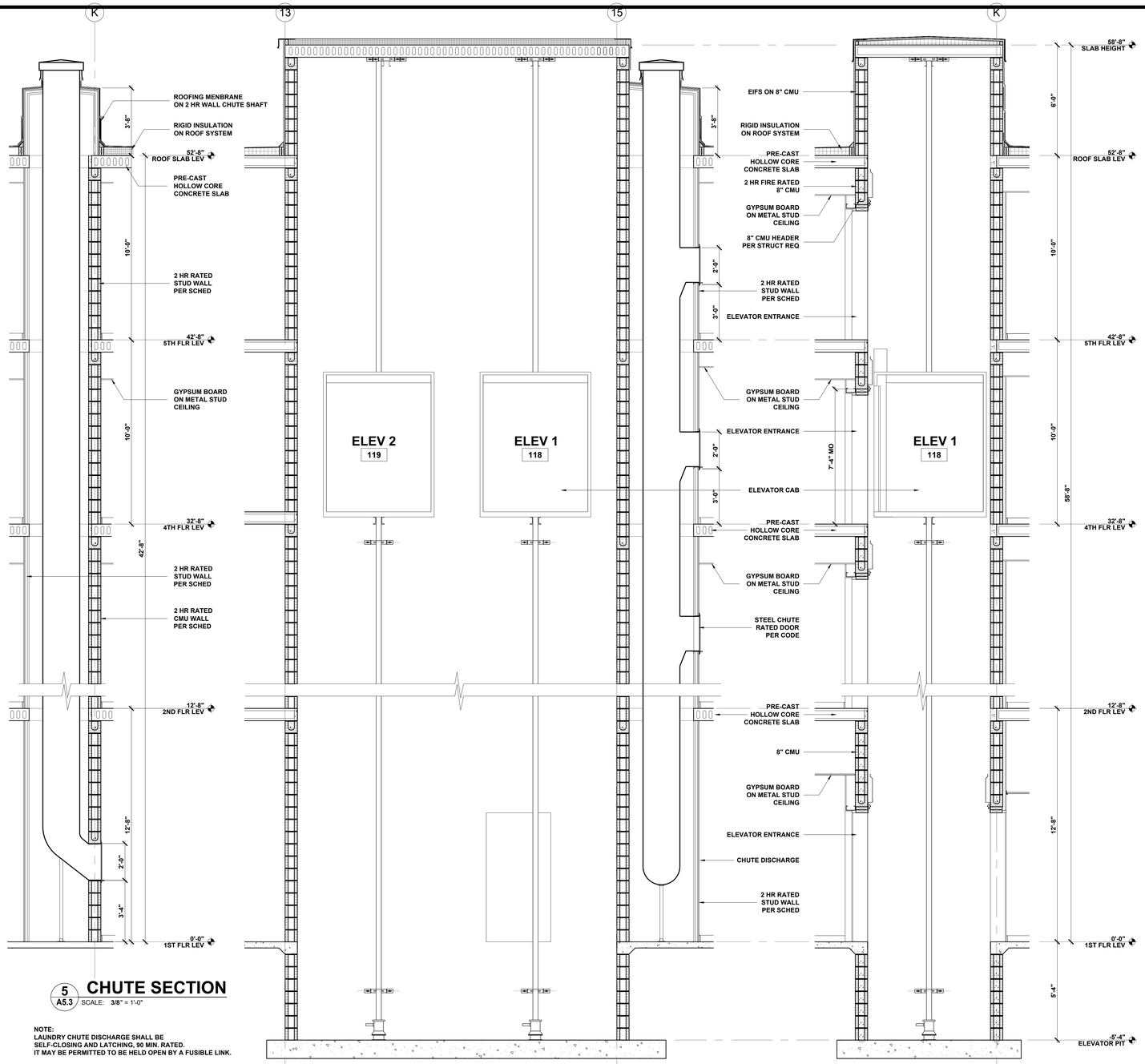
1. CONSTRUCTION LOCATION: UNITED STATES
2. SUMP OR DRAIN REQUIRED IN PIT (BY OTHERS). LOCATION TO BE COORDINATED WITH SCHINDLER TO AVOID ELEVATOR COMPONENTS AND ACCESS AREA.

HOISTWAY VENTILATION

1. VENTS SHALL BE LOCATED NEAR THE TOP OF THE HOISTWAY AND OPEN DIRECTLY TO THE OUTSIDE.
2. AREA OF VENT SHALL BE NOT LESS THAN 6 SQ. FT.

COMMUNICATION

1. EACH ELEVATOR LANDING SHALL BE PROVIDED WITH A TWO-WAY COMMUNICATION SYSTEM FOR COMMUNICATION BETWEEN THE ELEVATOR LANDING AND THE FIRE COMMAND CENTER OR A CENTRAL CONTROL POINT APPROVED BY THE AUTHORITY HAVING JURISDICTION
2. DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM, INSTRUCTIONS FOR SUMMONING ASSISTANCE VIA THE TWO-WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM
3. THE TWO-WAY COMMUNICATION SYSTEM SHALL INCLUDE BOTH AUDIBLE AND VISIBLE SIGNALS

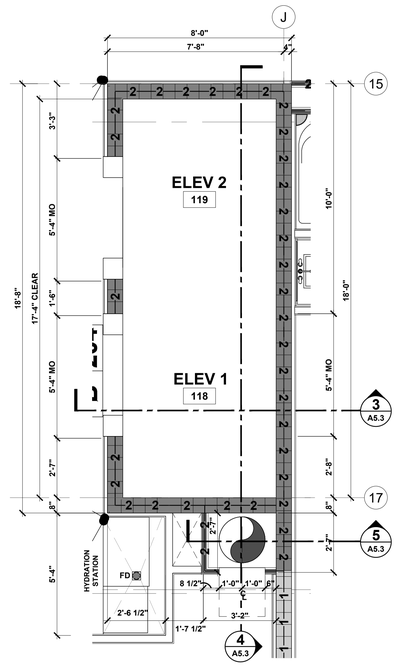


5 A5.3 CHUTE SECTION
SCALE: 3/8" = 1'-0"

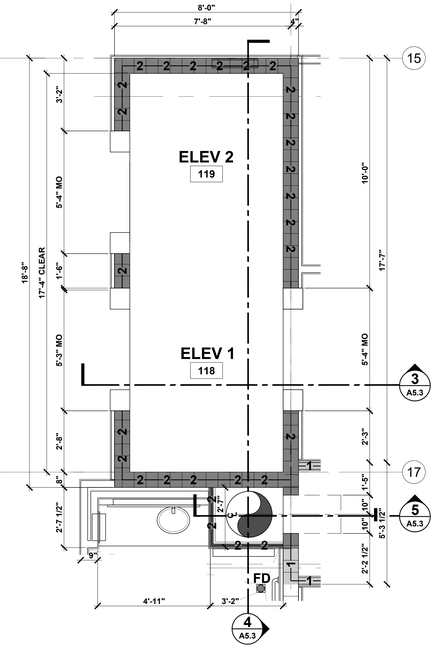
NOTE:
LAUNDRY CHUTE DISCHARGE SHALL BE SELF-CLOSING AND LATCHING, 90 MIN. RATED. IT MAY BE PERMITTED TO BE HELD OPEN BY A FUSIBLE LINK.

4 A5.3 ELEVATOR & CHUTE SECTION
SCALE: 3/8" = 1'-0"

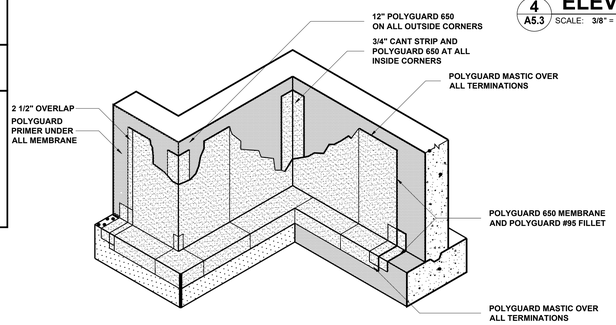
3 A5.3 ELEVATOR SECTION
SCALE: 3/8" = 1'-0"



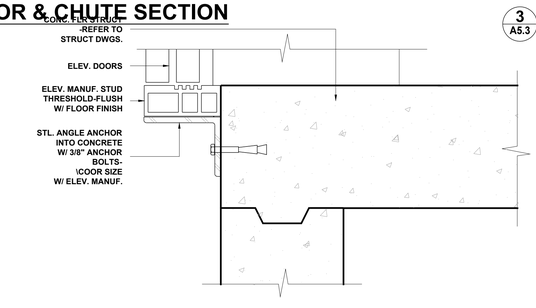
2 A5.3 TYPICAL UPPER ELEVATOR & CHUTE PLAN
SCALE: 3/8" = 1'-0"



1 A5.3 1ST FLOOR ELEVATOR & CHUTE PLAN
SCALE: 3/8" = 1'-0"



A2 A5.3 WATERPROOFING DETAIL
SCALE: NTS" = 1'-0"



A1 A5.3 ELEVATOR SILL DETAIL
SCALE: 3" = 1'-0"

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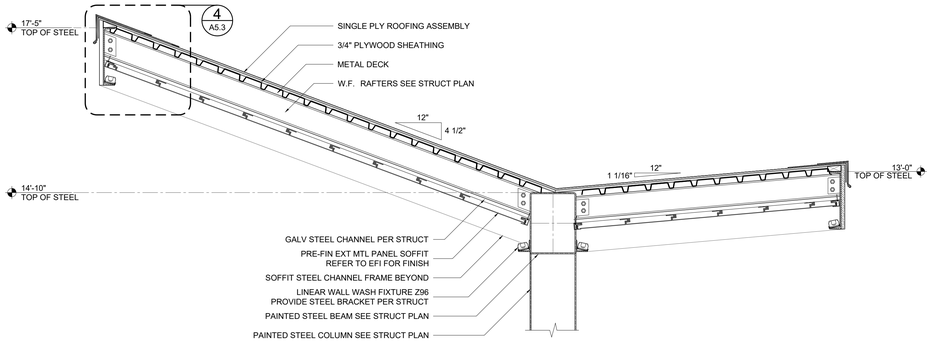
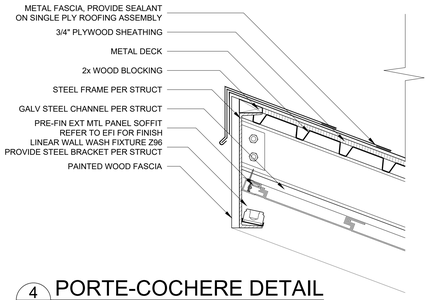


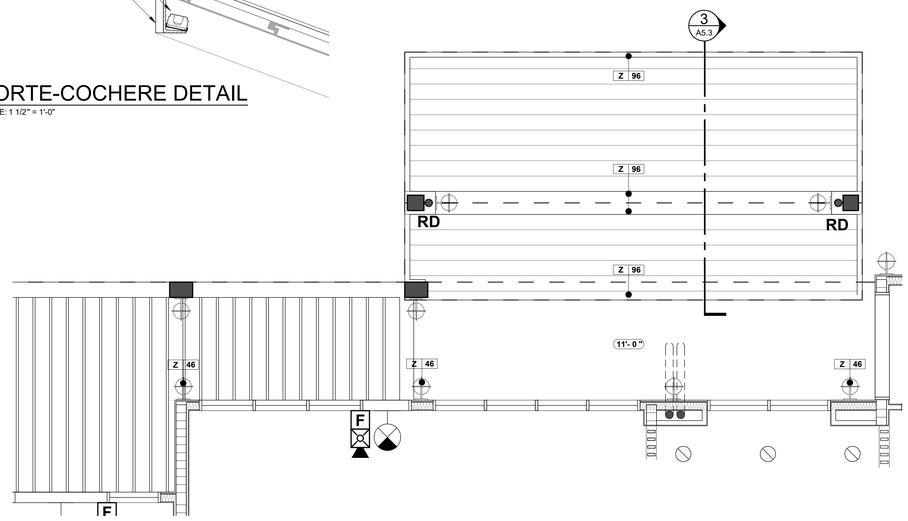
3 A5.3 PORTE-COCHERE SECTION

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



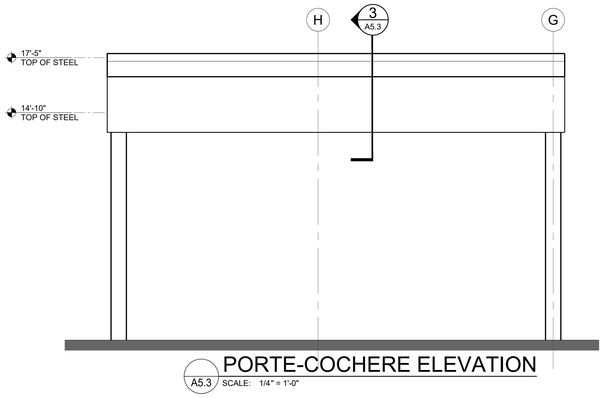
4 A5.3 PORTE-COCHERE DETAIL

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



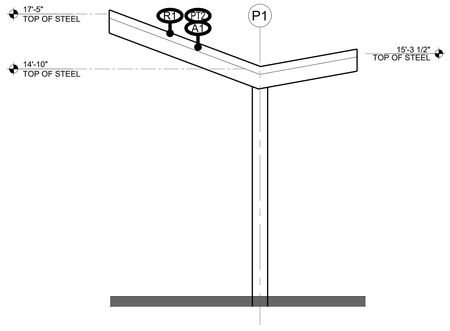
2 A5.3 PORTE-COCHERE REFLECTED CEILING PLAN

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



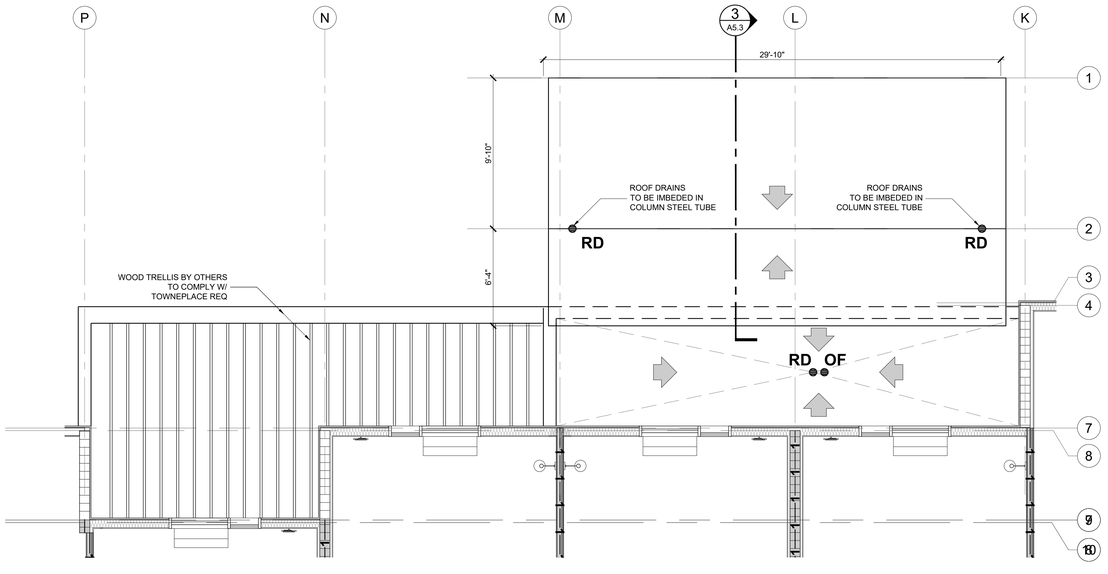
A5.3 PORTE-COCHERE ELEVATION

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



A5.3 PORTE-COCHERE ELEVATION

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



1 A5.3 PORTE-COCHERE ROOF PLAN

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

AA C000606

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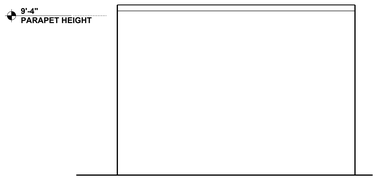
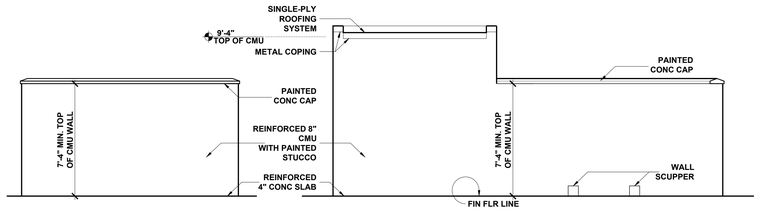
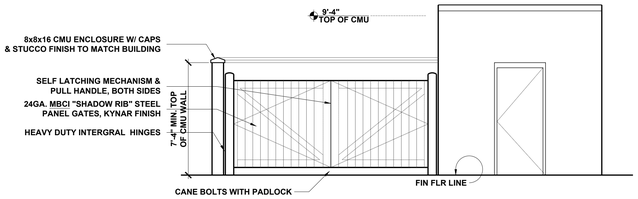


A6 DUMPSTER SIDE ELEVATION
A5.4 SCALE: 1/2" = 1'-0"

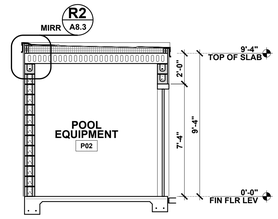


A5 DUMPSTER REAR ELEVATION
A5.5 SCALE: 1/2" = 1'-0"

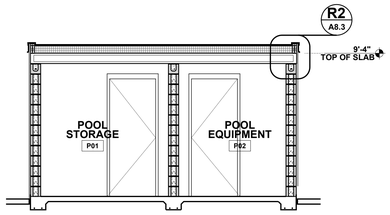
D4 DUMPSTER SIDE ELEVATION
A5.4 SCALE: 1/2" = 1'-0"



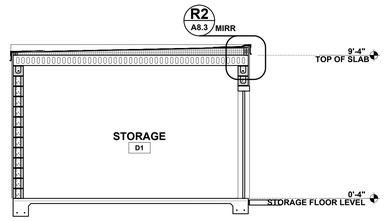
D3 DUMPSTER ELEVATION
A5.5 SCALE: 1/4" = 1'-0"



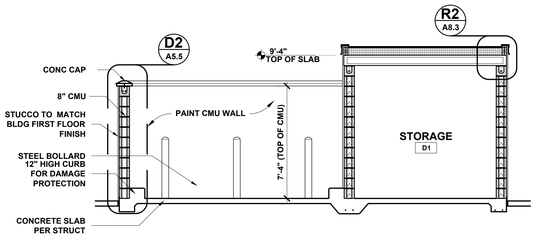
P6 POOL EQUIPMENT FRONT SECTION
A5.5 SCALE: 1/2" = 1'-0"



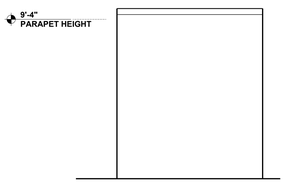
P5 POOL EQUIPMENT FRONT SECTION
A5.5 SCALE: 1/2" = 1'-0"



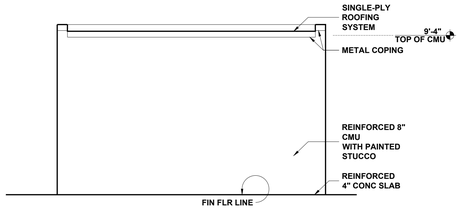
D8 STORAGE SECTION
A5.5 SCALE: 1/4" = 1'-0"



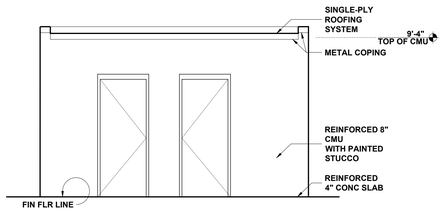
D7 STORAGE & TRASH ENCLOSURE SECTION
A5.5 SCALE: 1/4" " = 1'-0"



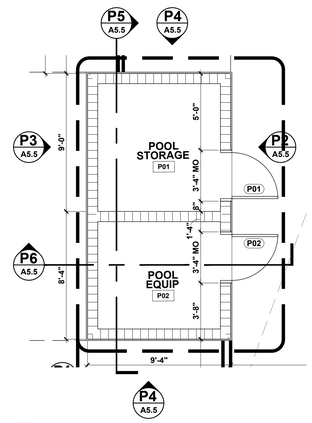
P4 POOL EQUIPMENT TYP SIDE ELEVATION
A5.4 SCALE: 1/2" = 1'-0"



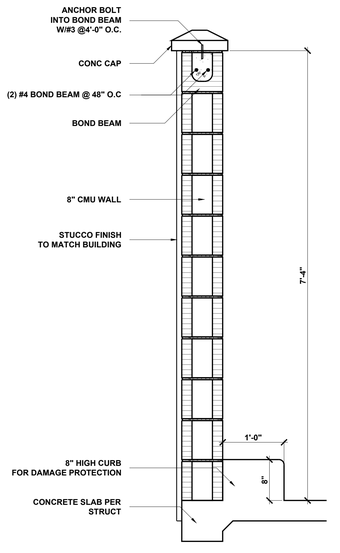
P3 POOL EQUIPMENT REAR ELEVATION
A5.5 SCALE: 1/2" = 1'-0"



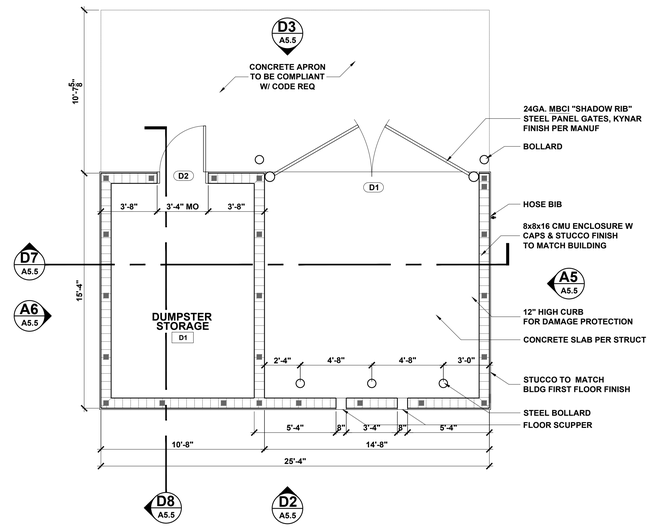
P2 POOL EQUIPMENT FRONT ELEVATION
A5.5 SCALE: 1/2" = 1'-0"



P1 POOL EQUIPMENT PLAN
A5.5 SCALE: 1/2" = 1'-0"



D2 WALL SECTION
A5.5 SCALE: 1" = 1'-0"



D1 DUMPSTER FLOOR PLAN
A5.5 SCALE: 1/4" = 1'-0"

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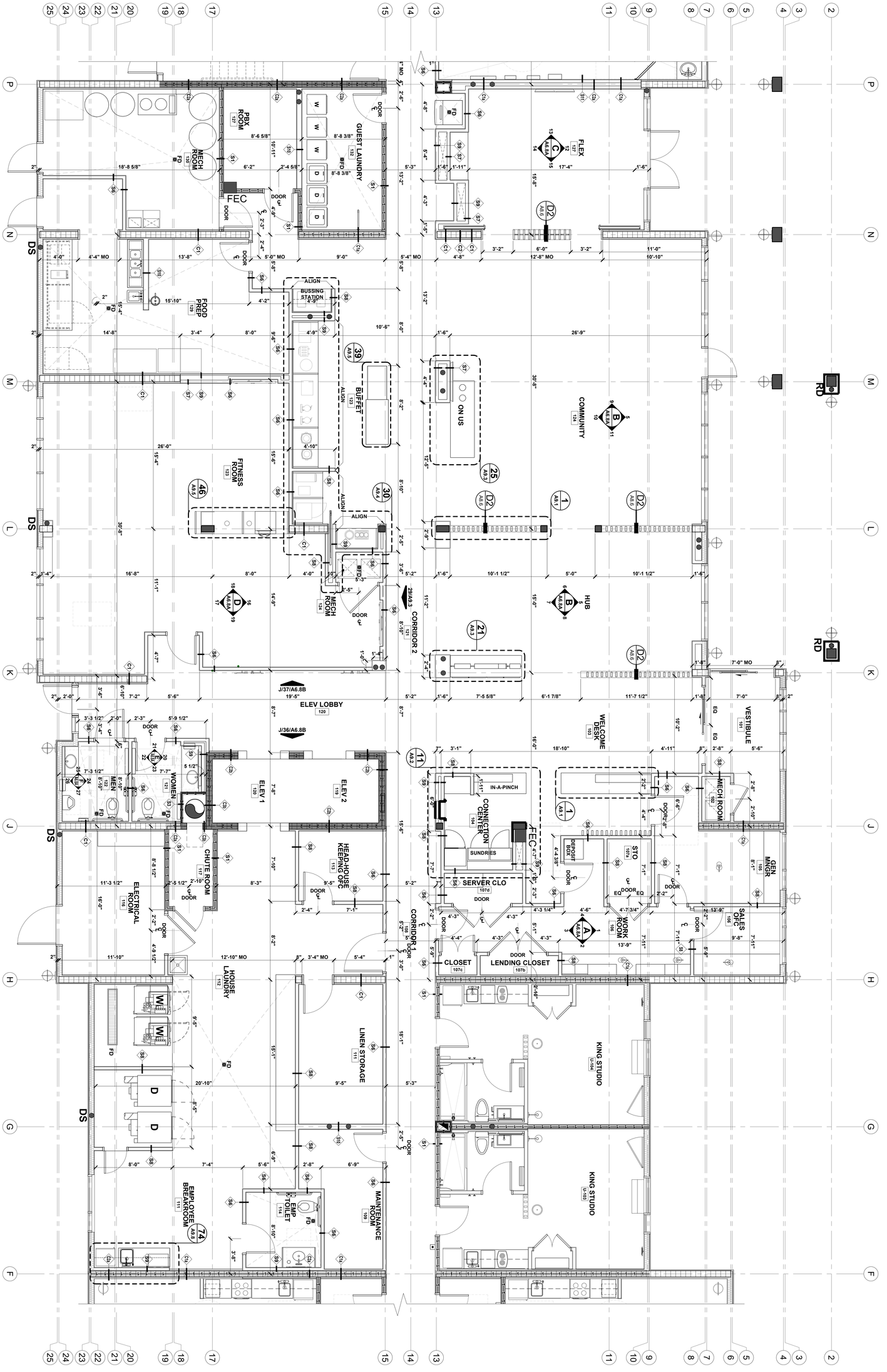

1 ENLARGED GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

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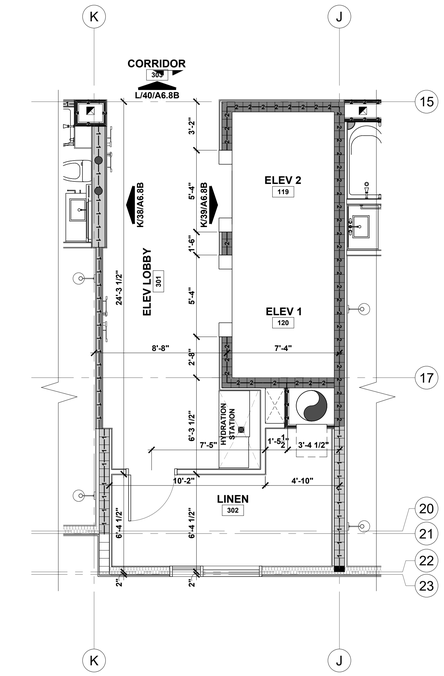
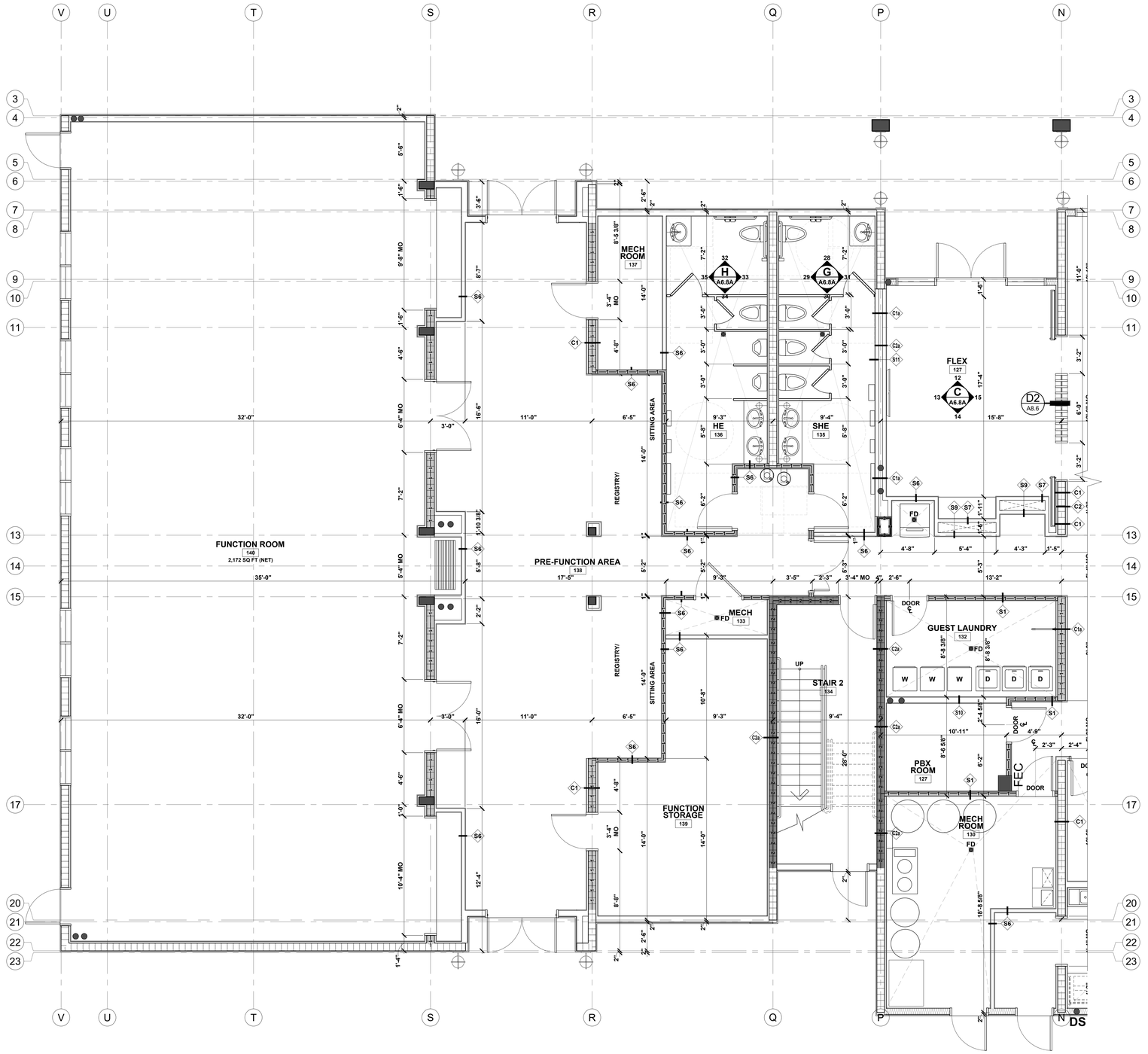


TYPICAL ELEVATOR LOBBY AREA
ENLARGED UPPER FLOOR PLAN

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



ENLARGED GROUND FLOOR PLAN

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

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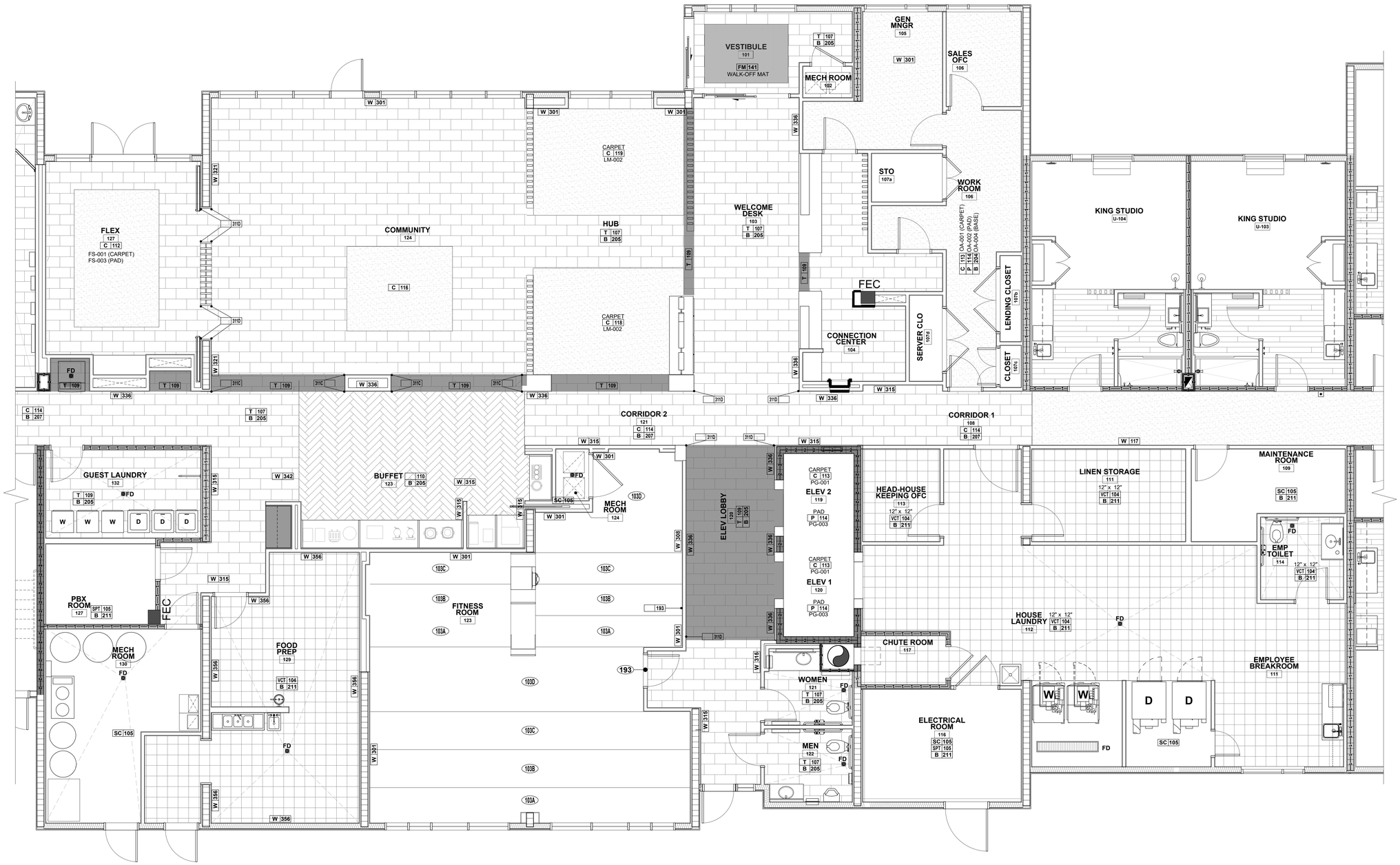

4 ENLARGED GROUND LOBBY FLOOR FINISHPLAN

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

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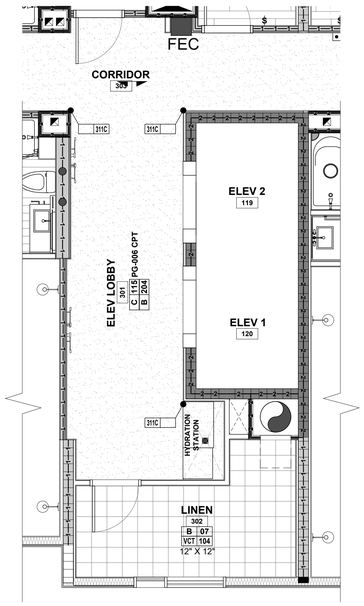
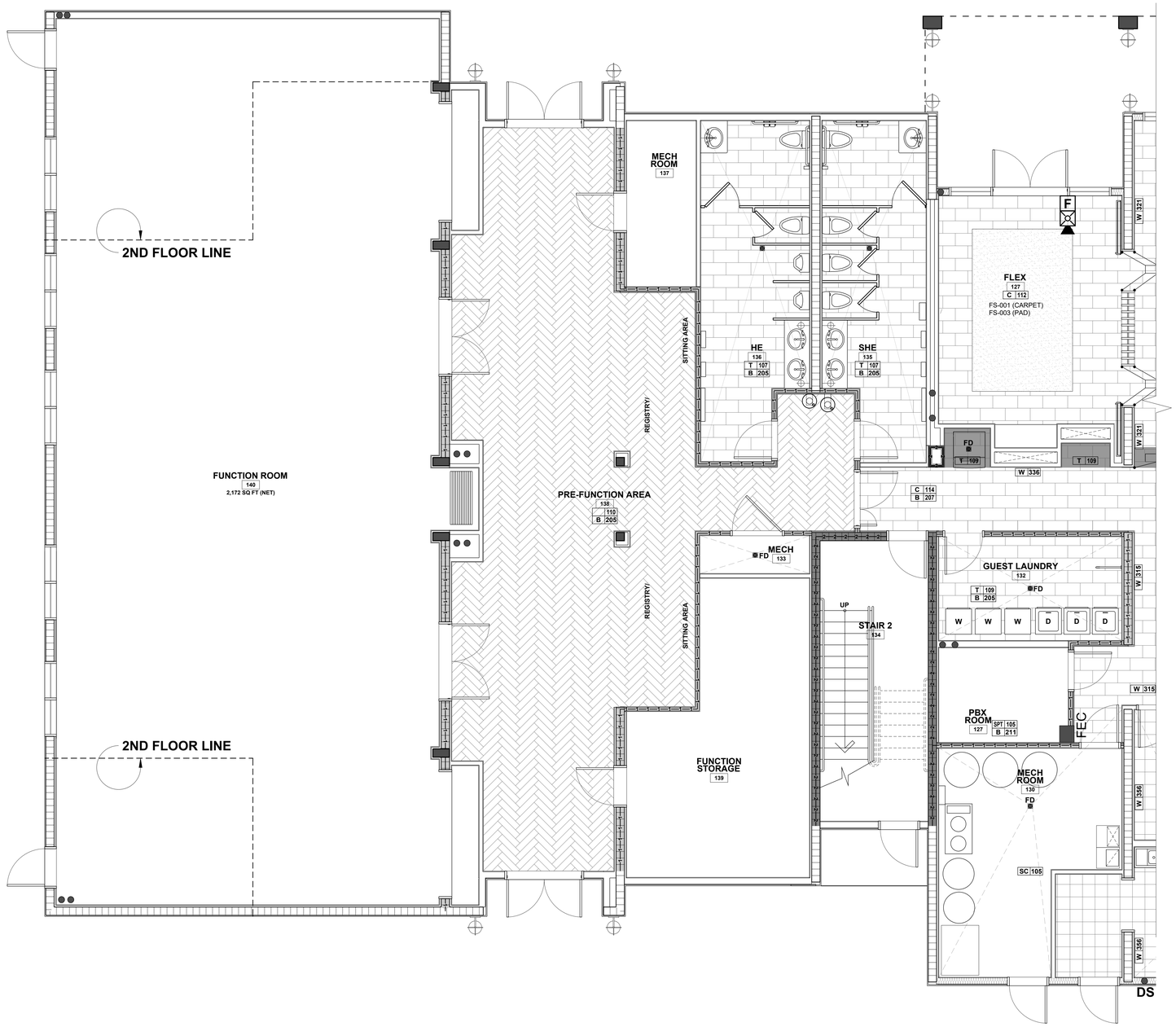


6 LOBBY AREA
ENLARGED UPPER FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"



5 ENLARGED GROUND FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

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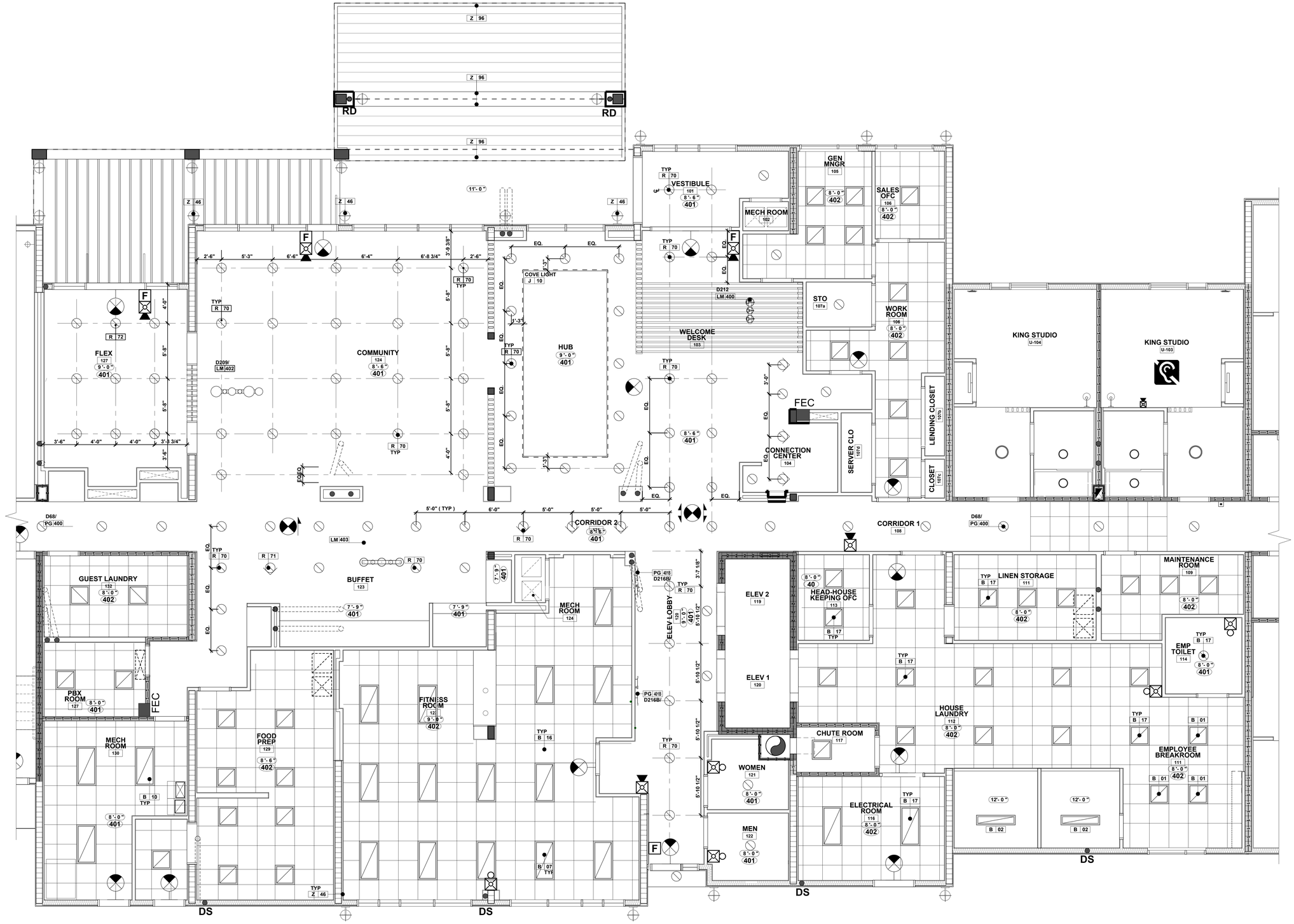

7 ENLARGED GROUND FLOOR RCP PLAN

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

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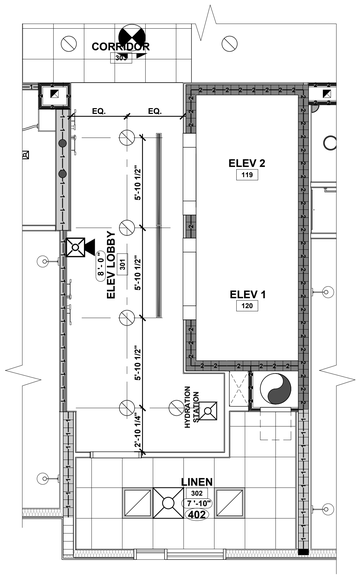
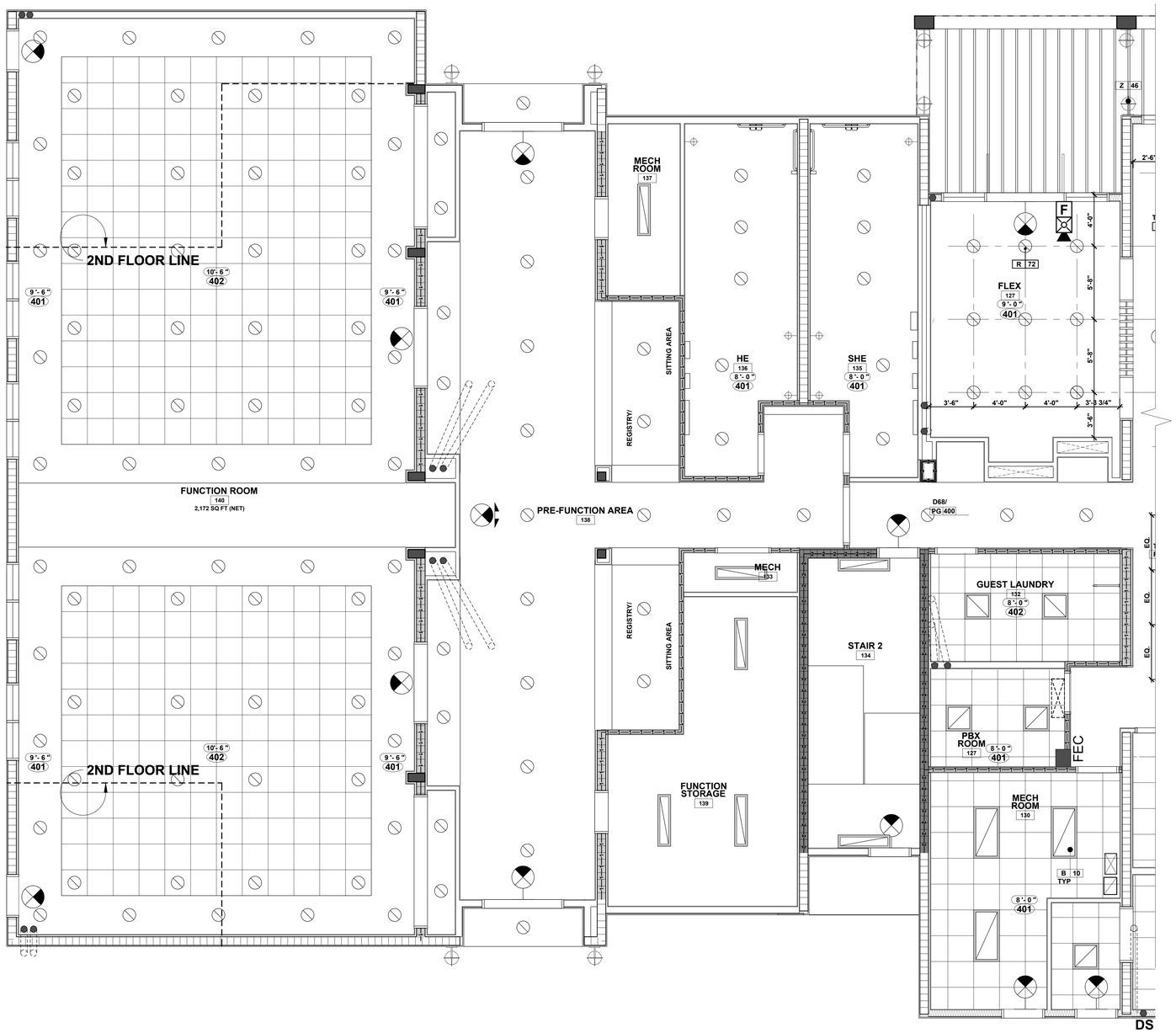


9 TYPICAL ELEVATOR LOBBY AREA
ENLARGED UPPER FLOOR RCP PLAN
SCALE: 1/4" = 1'-0"



8 ENLARGED GROUND FLOOR RCP PLAN
SCALE: 1/4" = 1'-0"

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GENERAL NOTES

A. ALL LOBBY PARTITIONS TO RECEIVE LEVEL 5 FINISH PRIOR TO WALL COVERING INSTALLATION.

B. LOCATE FLOOR TRANSITIONS AT DOOR INSIDE ROOM, NONPUBLIC SIDE, EDGE OF DOOR STOP. INSTALL TRANSITION STRIPS SO THAT THE DOOR IN THE CLOSED POSITION COVERS THE TRANSITION.

C. ALL SWITCH AND RECEPTACLE DEVICES IN THE LOBBY SHALL BE SIMILAR TO "DECORA" STYLE, OR ACCEPTED SUBSTITUTION BY LISTED MANUFACTURERS. COLOR OF THE DEVICES AND COVER PLATES AS SPECIFIED IN DESIGN GUIDE PROJECT MANUAL MASTER.

D. DIMENSIONS AT DRAPERIES INDICATE FINISH FLOOR TO FINISH CEILING SEE INTERIOR SPECIFICATIONS MANUAL FOR TRACK DIMENSIONS AND HEIGHT OF BOTTOM HEM FROM FINISH FLOOR. COORDINATE DIMENSIONS WITH ACTUAL CEILING HEIGHT.

REFERENCE NOTES

A. REFER TO DESIGN STANDARDS "LOBBY AREAS" CHAPTER FOR MAIN REQUIREMENTS RELATED TO THIS SHEET. ARCHITECT IS RESPONSIBLE FOR DESIGNING PROJECT IN ACCORDANCE WITH THE ENTIRE DESIGN STANDARDS.

B. REFER TO THE INTERIOR FINISH INDEX (IFI) IN THE DESIGN GUIDE PROJECT MANUAL MASTER FOR INFORMATION ON FINISHES.

C. REFER TO THE INTERIOR DESIGN SPECIFICATION MANUAL FOR INFORMATION ON FURNISHINGS.

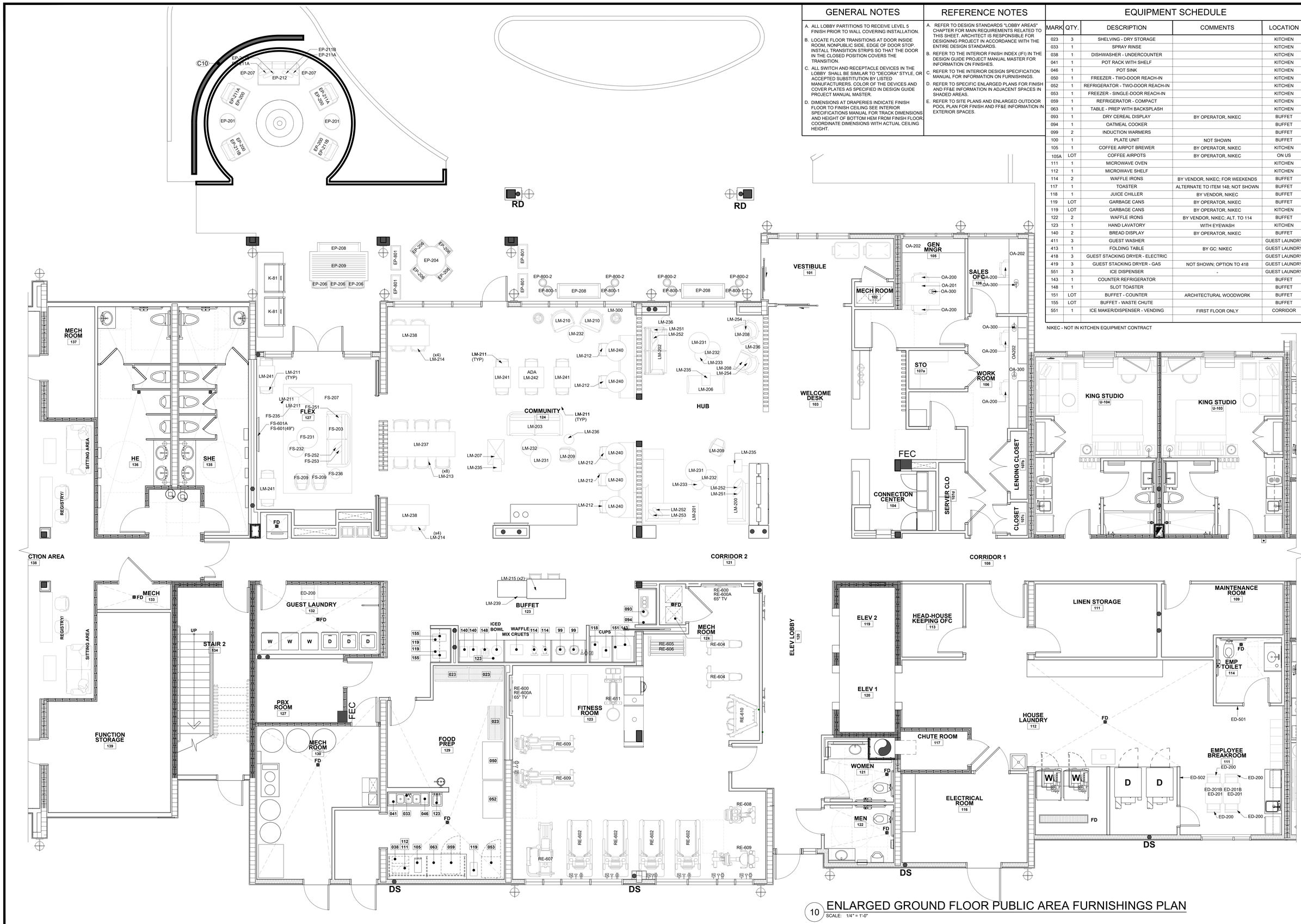
D. REFER TO SPECIFIC ENLARGED PLANS FOR FINISH AND FF&E INFORMATION IN ADJACENT SPACES IN SHADED AREAS.

E. REFER TO SITE PLANS AND ENLARGED OUTDOOR POOL PLAN FOR FINISH AND FF&E INFORMATION IN EXTERIOR SPACES.

EQUIPMENT SCHEDULE

MARK	QTY.	DESCRIPTION	COMMENTS	LOCATION
023	3	SHELVING - DRY STORAGE		KITCHEN
033	1	SPRAY RINSE		KITCHEN
038	1	DISHWASHER - UNDERCOUNTER		KITCHEN
041	1	POT RACK WITH SHELF		KITCHEN
046	1	POT SINK		KITCHEN
050	1	FREEZER - TWO-DOOR REACH-IN		KITCHEN
052	1	REFRIGERATOR - TWO-DOOR REACH-IN		KITCHEN
053	1	FREEZER - SINGLE-DOOR REACH-IN		KITCHEN
059	1	REFRIGERATOR - COMPACT		KITCHEN
063	1	TABLE - PREP WITH BACKSPLASH		KITCHEN
093	1	DRY CEREAL DISPLAY	BY OPERATOR, NIKEC	BUFFET
094	1	OATMEAL COOKER		BUFFET
099	2	INDUCTION WARMERS		BUFFET
100	1	PLATE UNIT	NOT SHOWN	BUFFET
105	1	COFFEE AIRPOT BREWER	BY OPERATOR, NIKEC	KITCHEN
105A	LOT	COFFEE AIRPOTS	BY OPERATOR, NIKEC	ON US
111	1	MICROWAVE OVEN		KITCHEN
112	1	MICROWAVE SHELF		KITCHEN
114	2	WAFFLE IRONS	BY VENDOR, NIKEC; FOR WEEKENDS	BUFFET
117	1	TOASTER	ALTERNATE TO ITEM 148; NOT SHOWN	BUFFET
118	1	JUICE CHILLER	BY VENDOR, NIKEC	BUFFET
119	LOT	GARBAGE CANS	BY OPERATOR, NIKEC	BUFFET
119	LOT	GARBAGE CANS	BY OPERATOR, NIKEC	KITCHEN
122	2	WAFFLE IRONS	BY VENDOR, NIKEC; ALT. TO 114	BUFFET
123	1	HAND LAVATORY	WITH EYEWASH	KITCHEN
140	2	BREAD DISPLAY	BY OPERATOR, NIKEC	BUFFET
411	3	GUEST WASHER		GUEST LAUNDRY
413	1	FOLDING TABLE	BY GC: NIKEC	GUEST LAUNDRY
418	3	GUEST STACKING DRYER - ELECTRIC		GUEST LAUNDRY
419	3	GUEST STACKING DRYER - GAS	NOT SHOWN; OPTION TO 418	GUEST LAUNDRY
551	3	ICE DISPENSER	-	GUEST LAUNDRY
143	1	COUNTER REFRIGERATOR		BUFFET
148	1	SLOT TOASTER		BUFFET
151	LOT	BUFFET - COUNTER	ARCHITECTURAL WOODWORK	BUFFET
155	LOT	BUFFET - WASTE CHUTE		BUFFET
551	1	ICE MAKER/DISPENSER - VENDING	FIRST FLOOR ONLY	CORRIDOR

NIKEC - NOT IN KITCHEN EQUIPMENT CONTRACT



10 ENLARGED GROUND FLOOR PUBLIC AREA FURNISHINGS PLAN
SCALE: 1/4" = 1'-0"

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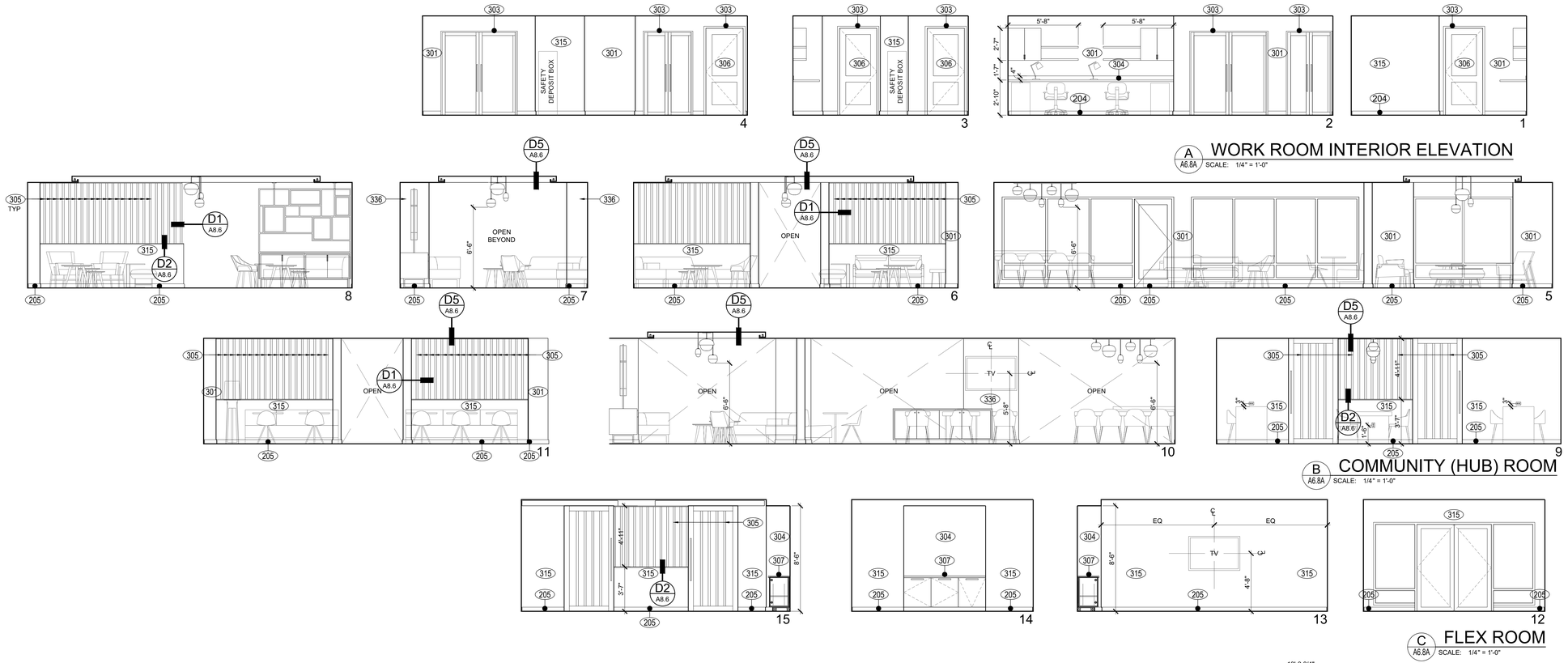

A A6.8A SCALE: 1/4" = 1'-0"
WORK ROOM INTERIOR ELEVATION

B A6.8A SCALE: 1/4" = 1'-0"
COMMUNITY (HUB) ROOM

C A6.8A SCALE: 1/4" = 1'-0"
FLEX ROOM

D A6.8A SCALE: 1/4" = 1'-0"
FITNESS INTERIOR ELEVATION

E A6.8A SCALE: 1/4" = 1'-0"
WOMEN - PUBLIC RESTROOM

F A6.8A SCALE: 1/4" = 1'-0"
MEN - PUBLIC RESTROOM

G A6.4 SCALE: 1/4" = 1'-0"
WOMEN - PUBLIC RESTROOM

H A6.4 SCALE: 1/4" = 1'-0"
MEN - PUBLIC RESTROOM

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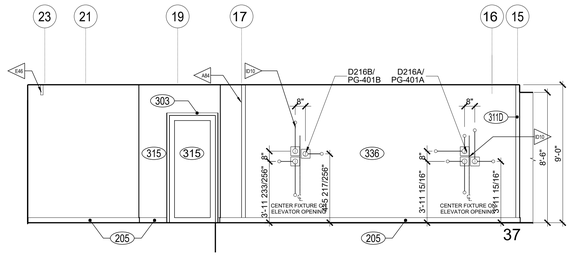
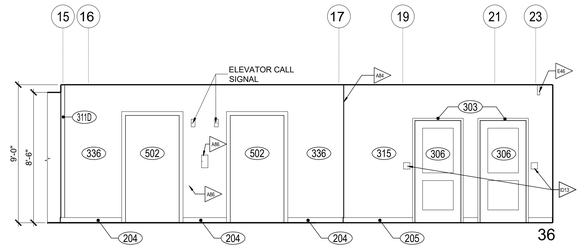
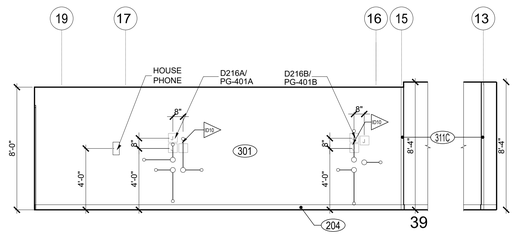
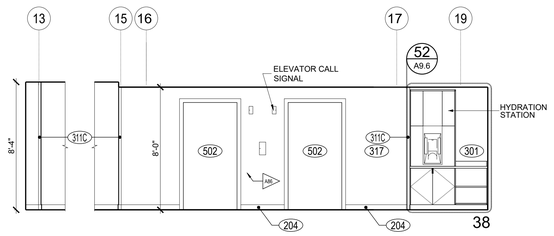


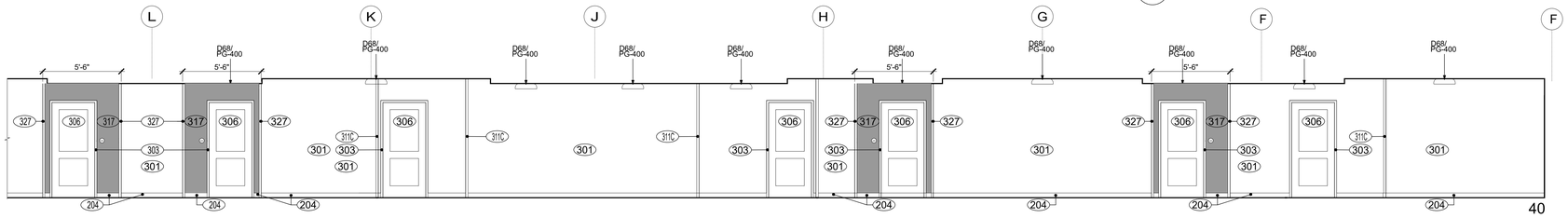


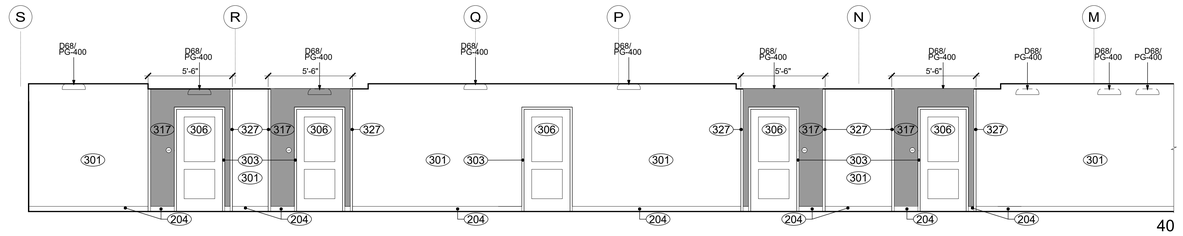
J A6.8B 1STFLOOR - ELEVATOR LOBBY SCALE: 1/4" = 1'-0"





K A6.8B TYP UPPER FLOOR - ELEVATOR LOBBY SCALE: 1/4" = 1'-0"





L A6.8B TYP UPPER FLOOR - GUEST ROOM CORRIDOR - ALONG GRID 13 SCALE: 1/4" = 1'-0"

AA C000606

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377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
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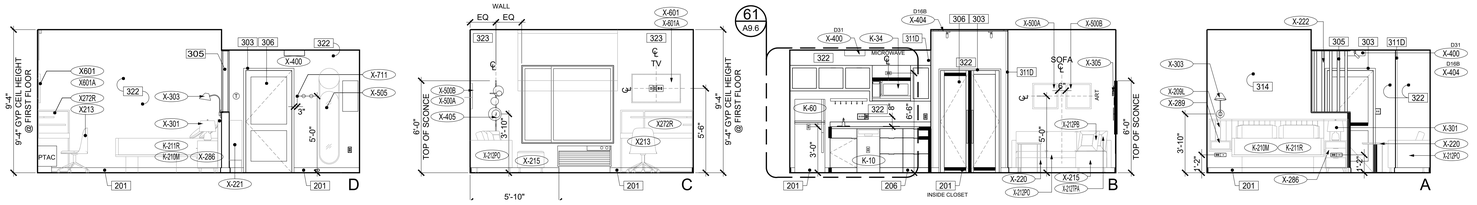
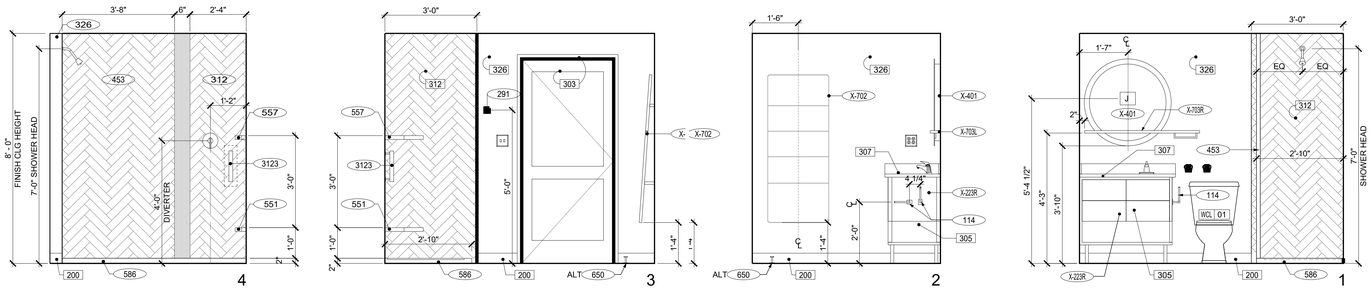
A6.8B

OF



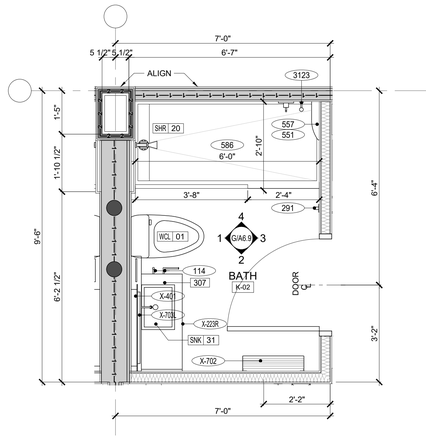
H A6.6 TYP KING STUDIO UNIT INTERIOR ELEVATIONS

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



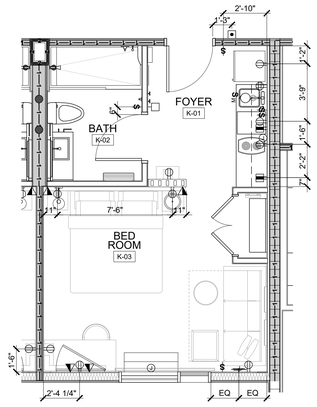
G A6.6 TYP KING STUDIO UNIT BATHROOM ELEVATIONS

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



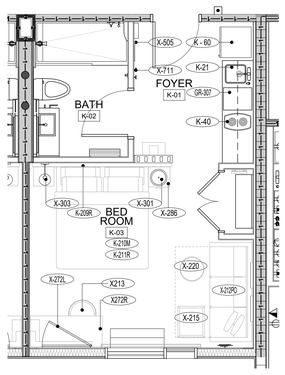
F A6.6 TYP KING STUDIO UNIT BATHROOM PLAN

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



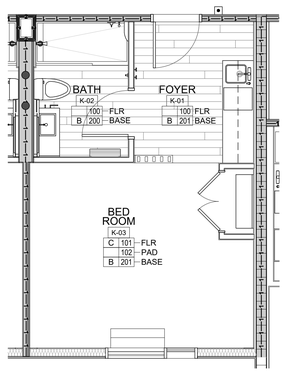
E A6.9 TYP KING STUDIO UNIT OUTLET PLAN

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



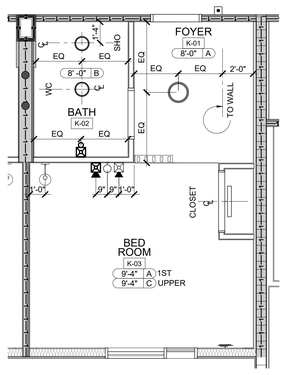
D A6.9 TYP KING STUDIO UNIT FURNITURE PLAN

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



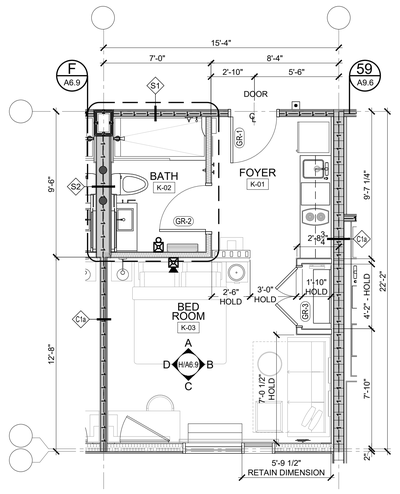
C A6.9 TYP KING STUDIO UNIT FINISH PLAN

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



B A6.9 TYP KING STUDIO UNIT REFLECTED CEILING PLAN

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



A A6.9 TYP KING STUDIO UNIT FLOOR PLAN

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

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A2 LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT

A3 CUTOUT FOR MICROWAVE OUTLET TO BE MADE IN FIELD BY INSTALLER OF MILLWORK

A4 HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE DRAWER

A5 ALTERNATE FLOOR STOP, TOILET ACCESSORY #650 ALT, TO BE USED IN LIEU OF WALL BASE STOP. TOILET ACCESSORY #650, WHERE DOOR CANNOT OPEN 90-DEGREES. LOCATE FLOOR STOP MAXIMUM OF 1" FROM WALL. REFER TO SPECIFICATION 08 71 00 DOOR HARDWARE

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A10 PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS

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- WALL MTD LT FIXTURE
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- LIGHT SWITCH
- M MASTER SWITCH
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- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE
- TELEPHONE OUTLET
- DATA
- TV TV OUTLET
- RACEWAY AND WIRING
- J JUNCTION BOX

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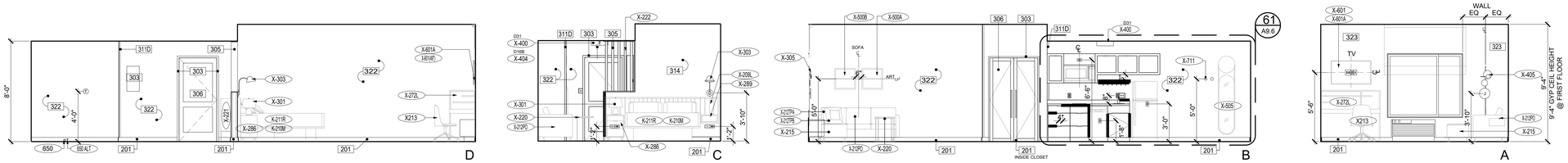
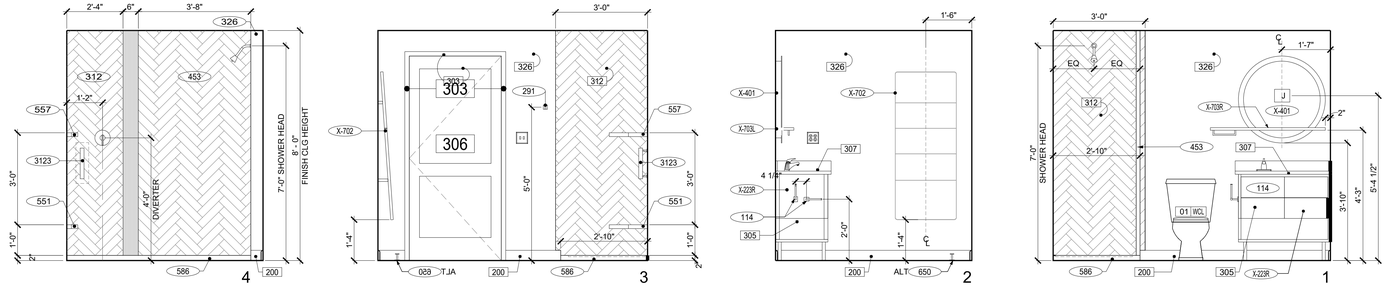
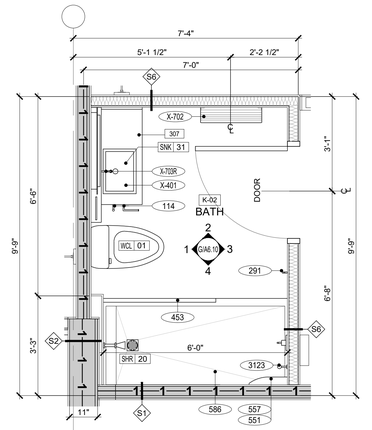


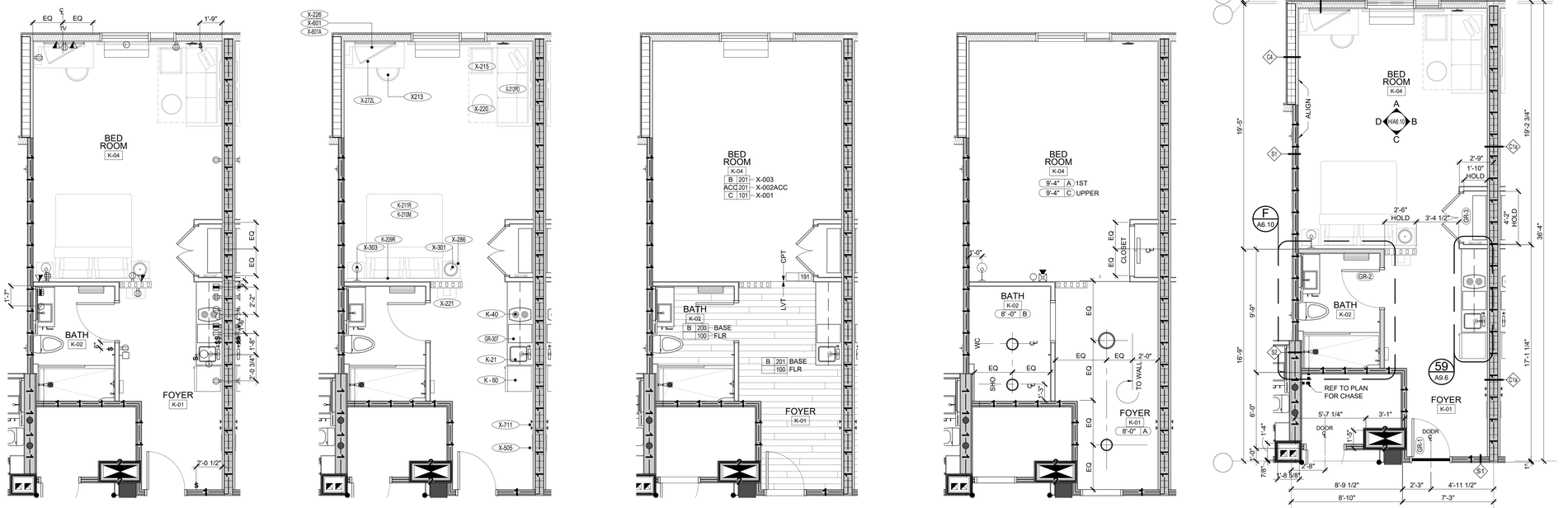
H A6.10 KING STUDIO WIDE - TYP UNIT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



G A6.10 KING STUDIO WIDE - TYP UNIT BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



F A6.10 KING STUDIO WIDE - TYP UNIT BATHROOM PLAN
SCALE: 1/2" = 1'-0"



E A6.8 KING STUDIO WIDE - TYP UNIT OUTLET PLAN
SCALE: 1/4" = 1'-0"

D A6.8 KING STUDIO WIDE - TYP UNIT FURNITURE PLAN
SCALE: 1/4" = 1'-0"

C A6.8 KING STUDIO WIDE - TYP UNIT FINISH PLAN
SCALE: 1/4" = 1'-0"

B A6.8 KING STUDIO WIDE - TYP UNIT REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

A A6.10 KING STUDIO WIDE - TYP UNIT FLOOR PLAN
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CEILING LT FIXTURE	DATA
LIGHT SWITCH	TV OUTLET
MASTER SWITCH	RACEWAY AND WIRING
THERMOSTAT	JUNCTION BOX
DUPLEX RECEPTACLE	
DOUBLE DUPLEX RECEPTACLE	
GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE	

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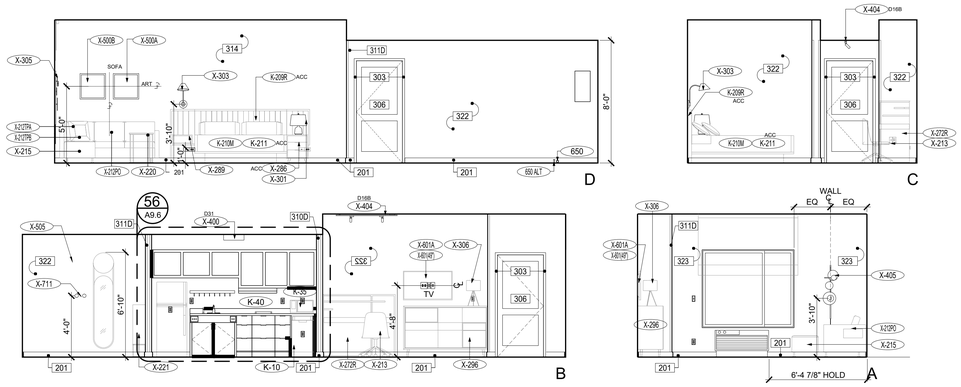
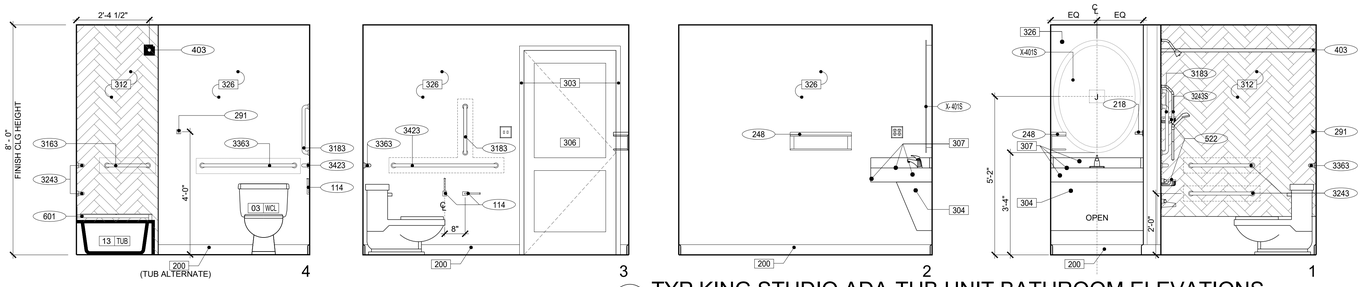


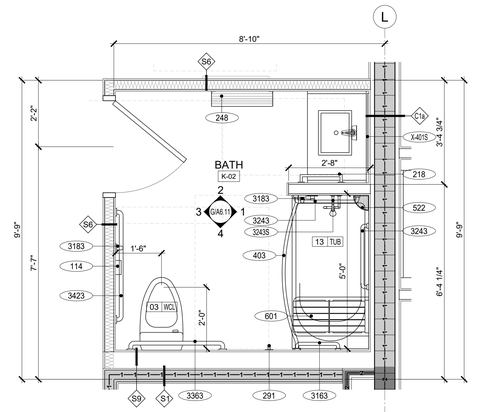
H A6.11 TYP KING STUDIO ADA-TUB UNIT INTERIOR ELEVATIONS

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



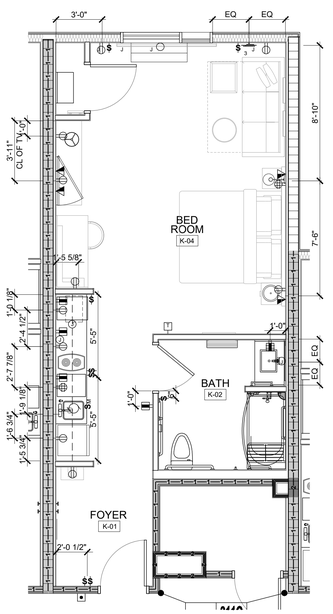
G A6.11 TYP KING STUDIO ADA-TUB UNIT BATHROOM ELEVATIONS

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



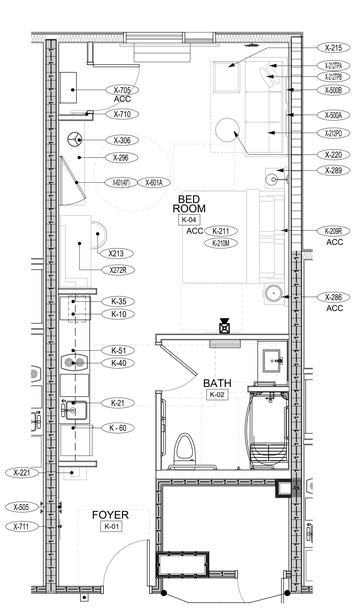
F A6.11 TYP KING STUDIO ADA-TUB UNIT BATHROOM PLAN

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



E A6.11 KING STUDIO ADA-TUB UNIT OUTLET PLAN

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



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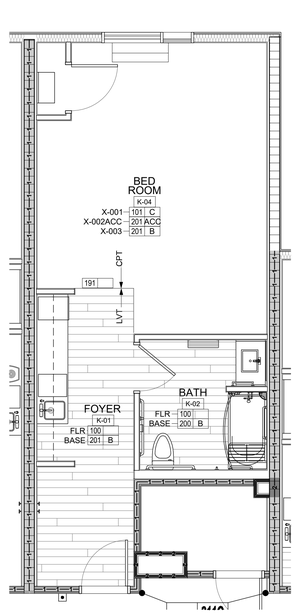
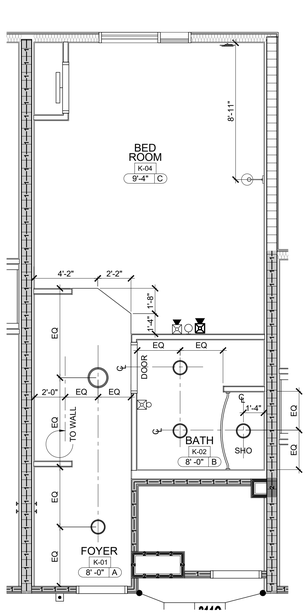
SCALE: 1/4" = 1'-0"



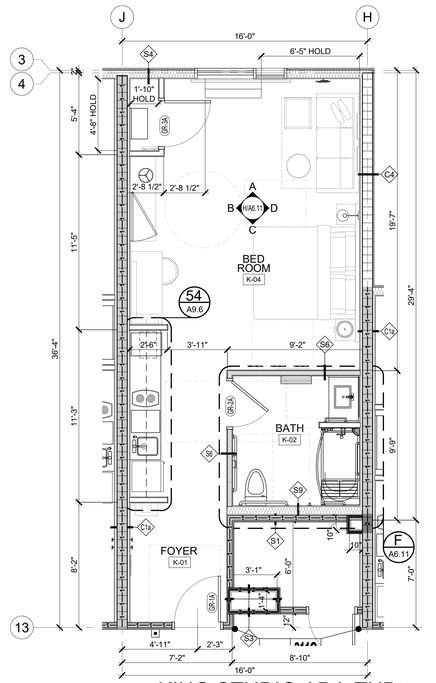
C A6.11 KING STUDIO ADA-TUB UNIT FINISH PLAN

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



B A6.11 KING STUDIO ADA-TUB UNIT REFLECTED CEILING PLAN

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



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A3 CUTOUT FOR MICROWAVE OUTLET TO BE MADE IN FIELD BY INSTALLER OF MILLWORK

A4 HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE DRAWER

A5 ALTERNATE FLOOR STOP, TOILET ACCESSORY #650 ALT, TO BE USED IN LIEU OF WALL BASE STOP, TOILET ACCESSORY #650, WHERE DOOR CANNOT OPEN 90-DEGREES. LOCATE FLOOR STOP MAXIMUM OF 1" FROM WALL. REFER TO SPECIFICATION 08 71 00 DOOR HARDWARE

A6 FOR LOCATIONS WHERE MIRROR IS BEHIND DOOR, VARIOUS LENGTH OF WALL AND WALL BASE STOPS NEED TO BE VERIFIED. PROJECT ARCHITECT TO SPECIFY APPROPRIATE STOP FOR DOOR TO OPEN A MINIMUM OF 90 DEGREES. LOCATION OF DOOR STOP AND MIRROR BEHIND DOOR WHERE SHOWN TO BE COORDINATED WITH PROJECT ARCHITECT. REFER TO 08 71 00 DOOR HARDWARE

A7 TEXTURED FINISH AND PAINT REQUIRED ON GUESTROOM EXTERIOR WALL TO ELIMINATE MOLD AND MILDEW ISSUE

A8 INDICATE BLOCKING IN WALL FOR ALL CASEWORK, HEADBOARD, SHOE CUBBY, MIRROR, CLOSET SYSTEM, FIXTURES, GRAB BARS AND ACCESSORIES. COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION REQUIREMENTS

A9 INDICATE OUTLET LOCATION WITHIN WALL CONSTRUCTION TO AVOID OUTLETS OCCURING IN SAME CAVITY WITHIN PARTITION. SEE DETAIL ON STC DIAGRAM SHEET 240

A10 PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS

A12B GUESTROOM VANITIES CAN BE MILLWORK OR FF&E. MILLWORK DETAILS ARE PROVIDED WITHIN THE DESIGN GUIDELINE DRAWINGS. FF&E MARK NUMBER IS ALSO PROVIDED WITHIN THE DESIGN GUIDELINE DRAWINGS; REFER TO INTERIOR DESIGN SPECIFICATION MANUAL FOR FF&E.

A13Z GUESTROOM SLAT WALLS CAN BE MILLWORK OR FF&E. MILLWORK DETAILS ARE PROVIDED WITHIN THE DESIGN GUIDELINE DRAWINGS. FF&E MARK NUMBER IS ALSO PROVIDED WITHIN THE DESIGN GUIDELINE DRAWINGS; REFER TO INTERIOR DESIGN SPECIFICATION MANUAL FOR FF&E.

ID1 TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS TO ELIMINATE MOLD AND MILDEW

ID2 ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS

ID3 REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND ELEVATIONS FOR ROLLER SHADE INFORMATION

ID5 CENTER ARTWORK ON WALL OR AS SHOWN

ID8 CLOSET CEILING PAINT TO MATCH THE WALL PAINT WITHIN THE CLOSET; REFER TO INTERIOR FINISH INDEX #328 FOR WALLS AND #404 FOR CEILING

ID18 ALIGN TOP MIRROR X-502 AND COAT HOOK WITH PANEL X-503 WITH TOP OF DOOR FRAME

ID19 CARPET PAD TO BE INSTALLED ONLY WITH BROADLOOM CARPET OPTIONS

ID20 LVT UNDERLAYMENT MAY BE NEEDED; COORDINATE WITH LVT OPTIONS ON IFI

ELECTRICAL LEGEND

- WALL MTD LT FIXTURE
- CEILING LT FIXTURE
- LIGHT SWITCH
- M MASTER SWITCH
- T THERMOSTAT
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE
- TELEPHONE OUTLET
- DATA
- TV TV OUTLET
- RACEWAY AND WIRING
- J JUNCTION BOX

AA C000606

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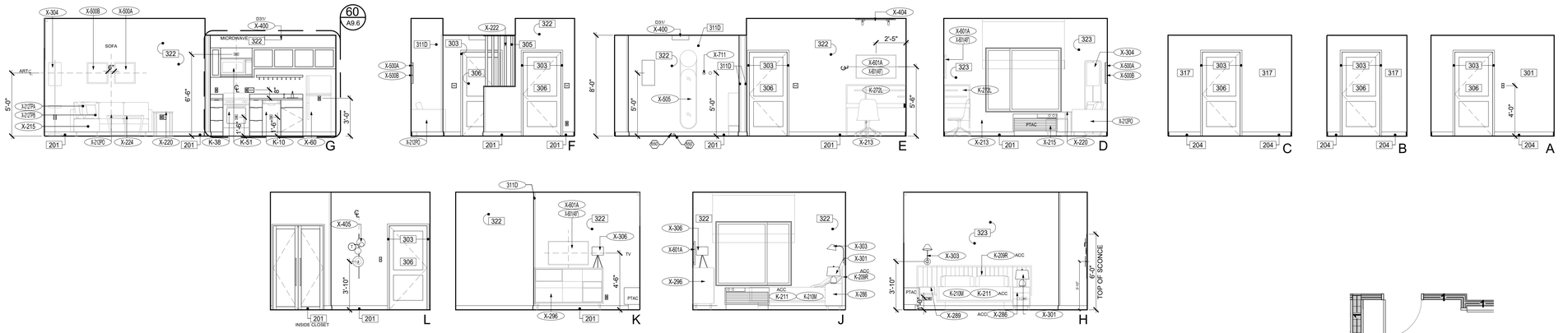
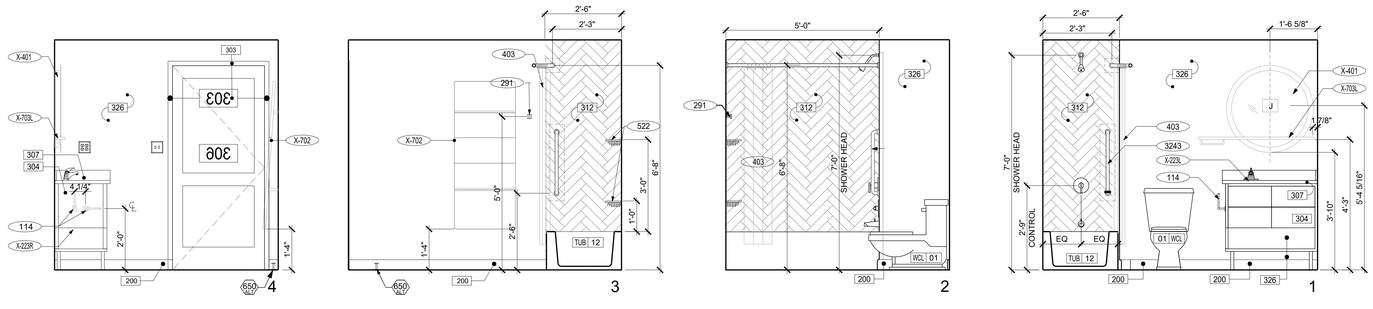
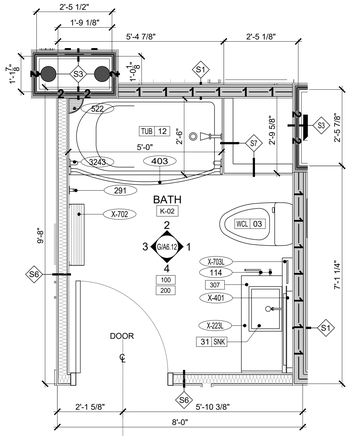


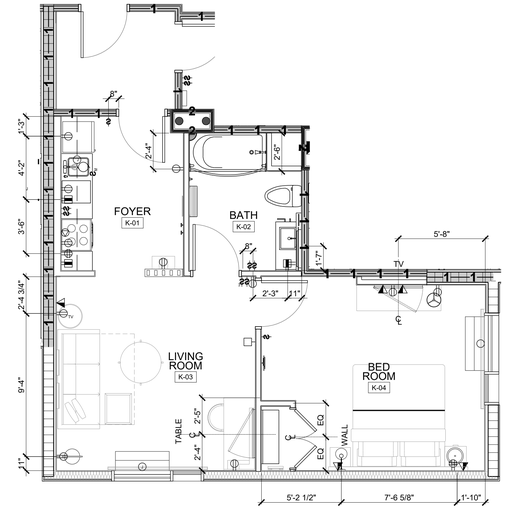
H A6.12 TYP KING SUITE LOCKOUT - INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



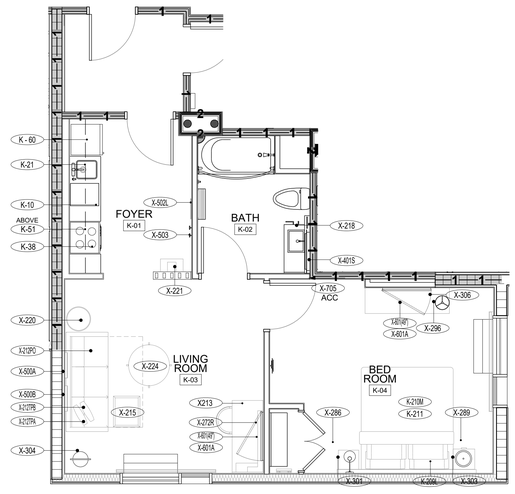
G A6.12 TYP KING SUITE LOCKOUT - BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



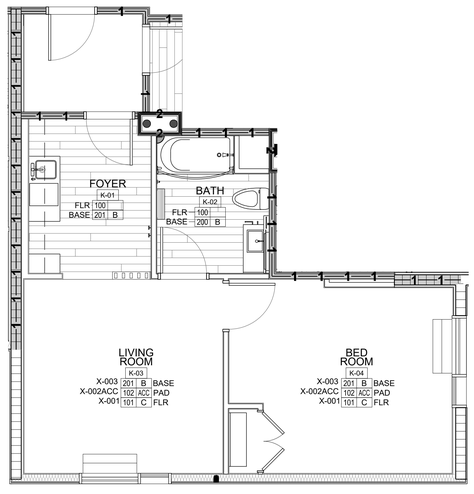
F A6.12 KING SUITE LOCKOUT UNIT BATHROOM PLAN
SCALE: 1/2" = 1'-0"



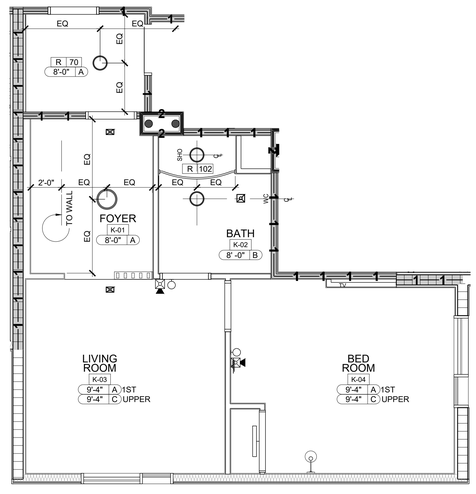
E A6.12 KING SUITE LOCKOUT UNIT OUTLET PLAN
SCALE: 1/4" = 1'-0"



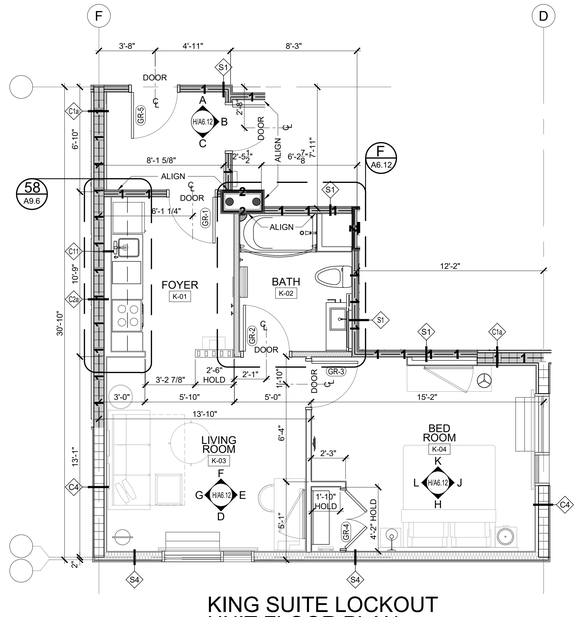
D A6.12 KING SUITE LOCKOUT UNIT FURNITURE PLAN
SCALE: 1/4" = 1'-0"



C A6.12 KING SUITE LOCKOUT UNIT FINISH PLAN
SCALE: 1/4" = 1'-0"



B A6.12 KING SUITE LOCKOUT UNIT REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



A A6.12 KING SUITE LOCKOUT UNIT FLOOR PLAN
SCALE: 1/4" = 1'-0"

AA C0006606

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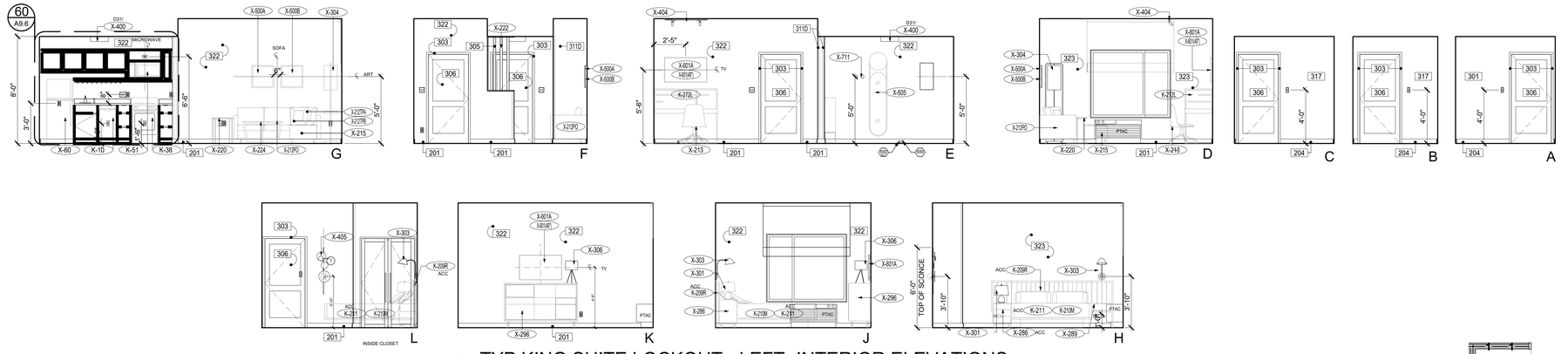
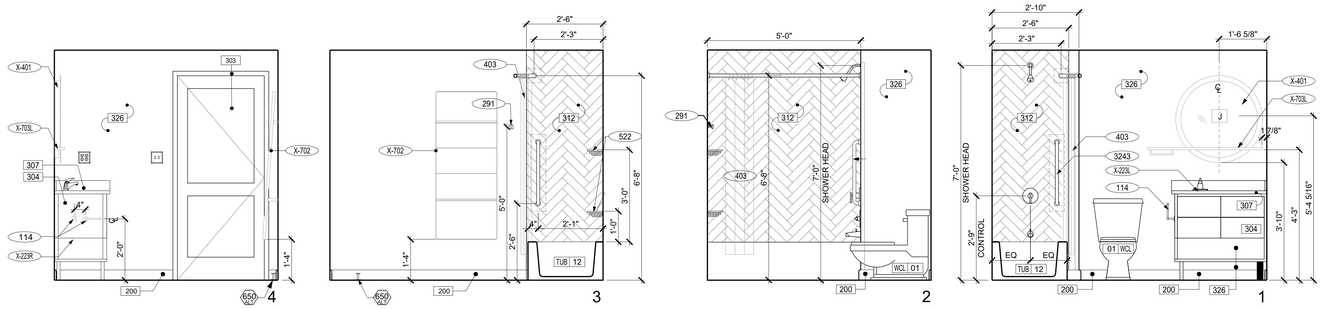


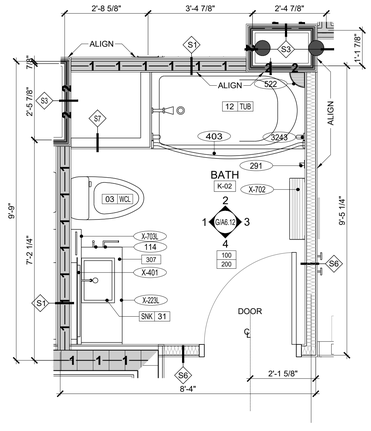
H A6.13 TYP KING SUITE LOCKOUT - LEFT- INTERIOR ELEVATIONS

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



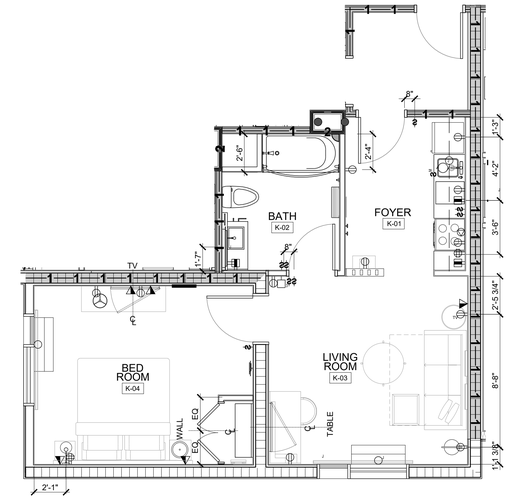
G A6.13 TYP KING SUITE LOCKOUT - LEFT - BATHROOM ELEVATIONS

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



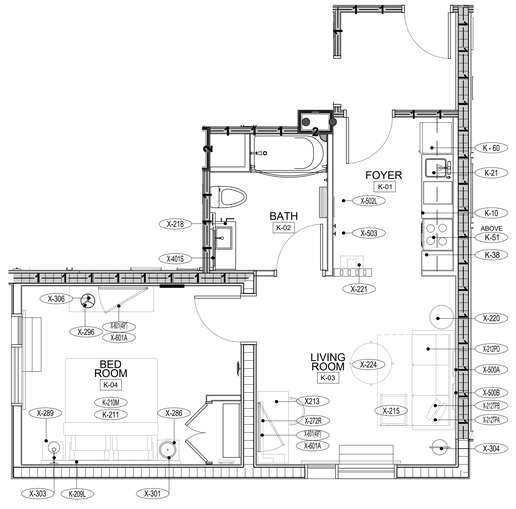
F A6.13 KING SUITE LOCKOUT - LEFT UNIT BATHROOM PLAN

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



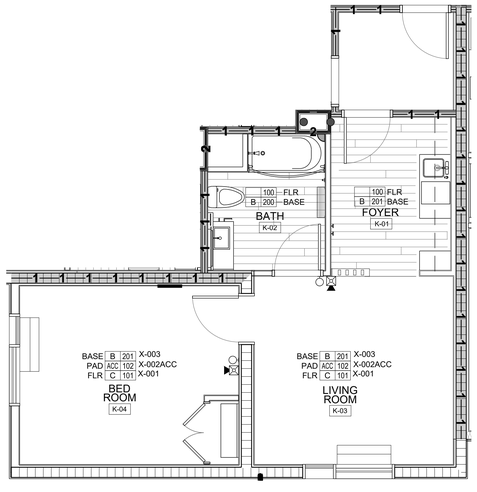
E A6.13 KING SUITE LOCKOUT - LEFT UNIT OUTLET PLAN

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



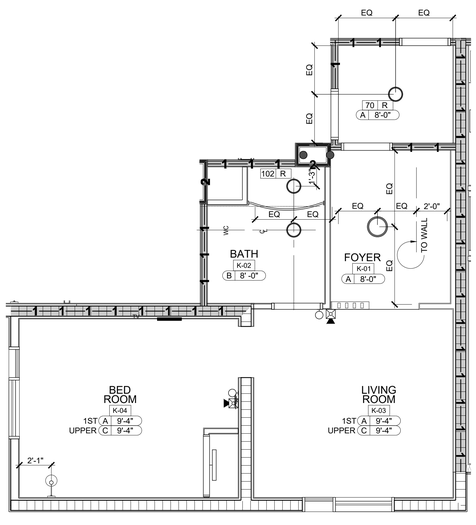
D A6.13 KING SUITE LOCKOUT - LEFT UNIT FURNITURE PLAN

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



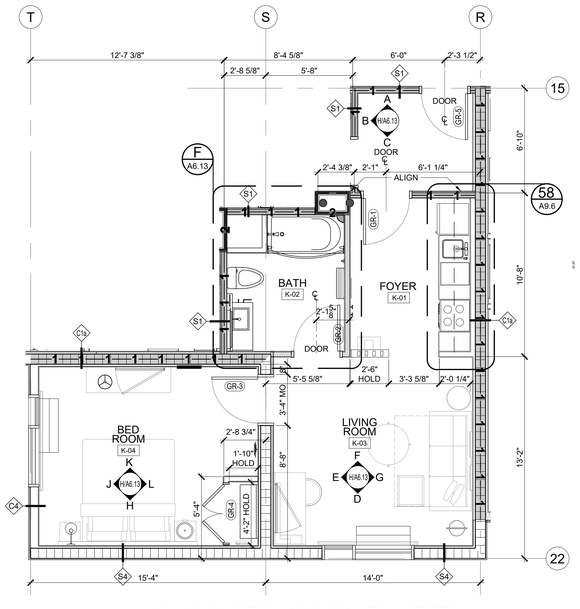
C A6.13 KING SUITE LOCKOUT - LEFT UNIT FINISH PLAN

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



B A6.13 KING SUITE LOCKOUT - LEFT UNIT REFLECTED CEILING PLAN

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



A A6.13 KING SUITE LOCKOUT - LEFT UNIT FLOOR PLAN

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

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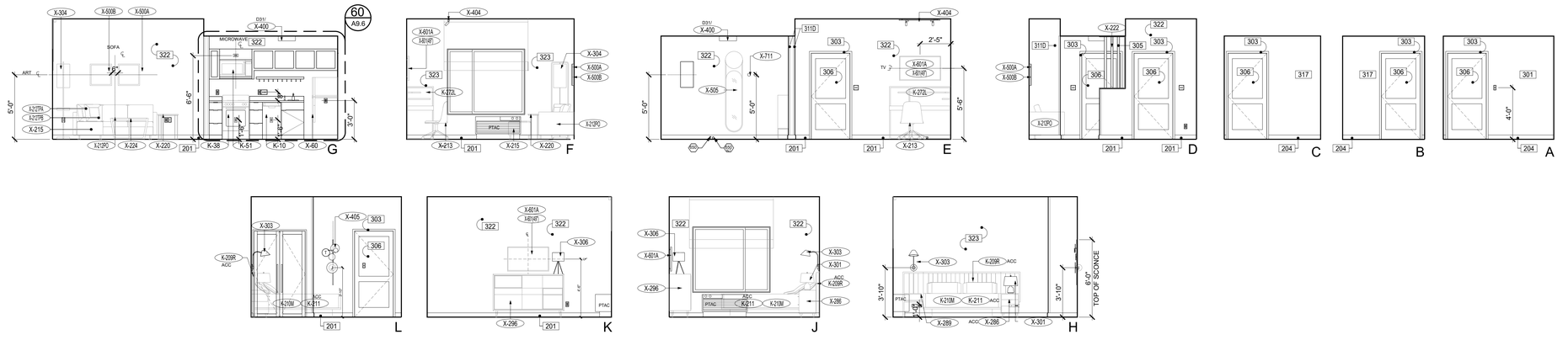
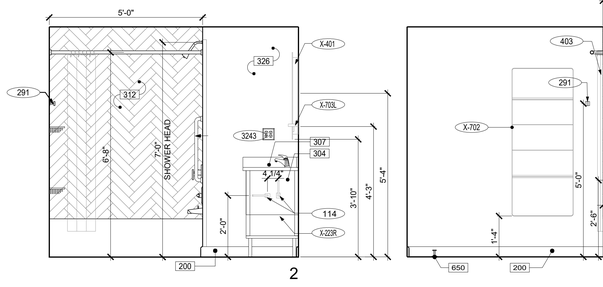
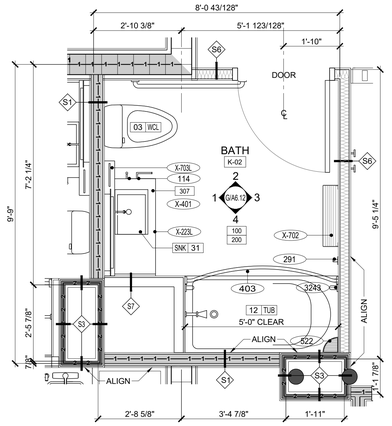
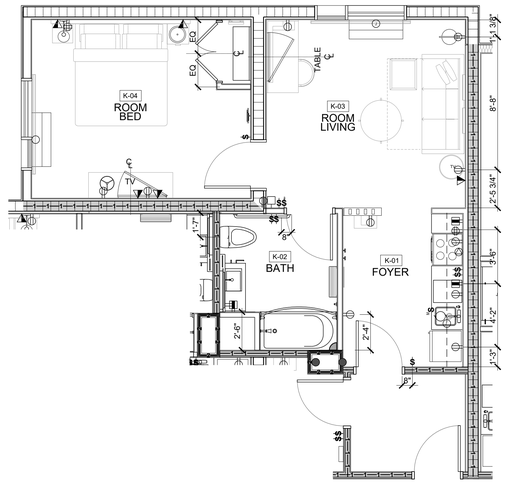


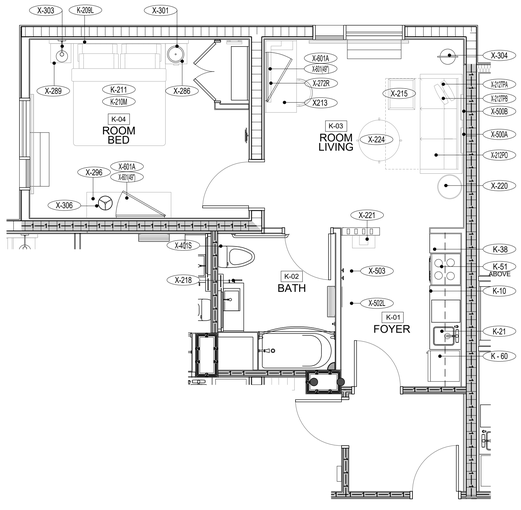
H TYP KING SUITE LOCKOUT LEFT- INTERIOR ELEVATIONS
A6.14 SCALE: 1/4" = 1'-0"



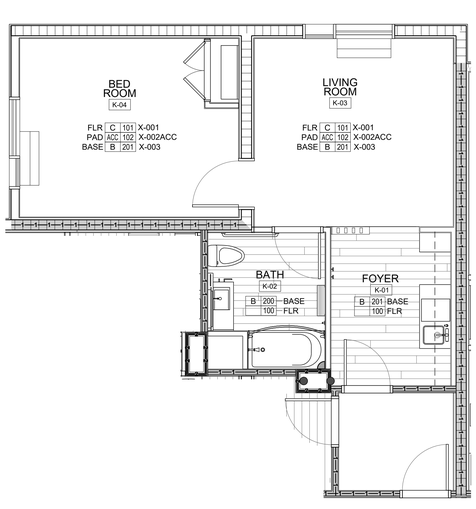




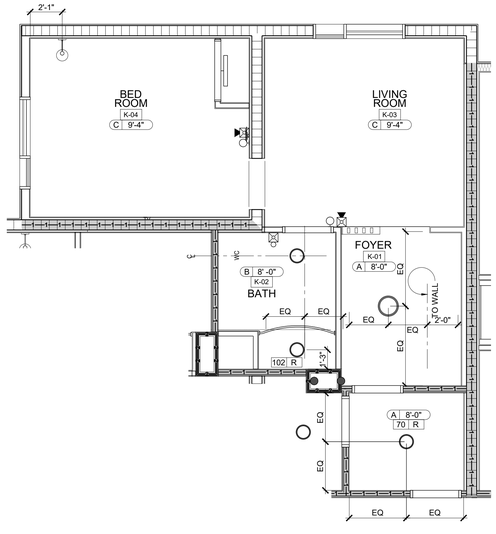
G TYP KING SUITE LOCKOUT LEFT - BATHROOM ELEVATIONS
A6.14 SCALE: 1/2" = 1'-0"



F KING SUITE LOCKOUT LEFT UNIT BATHROOM PLAN
A6.14 SCALE: 1/2" = 1'-0"



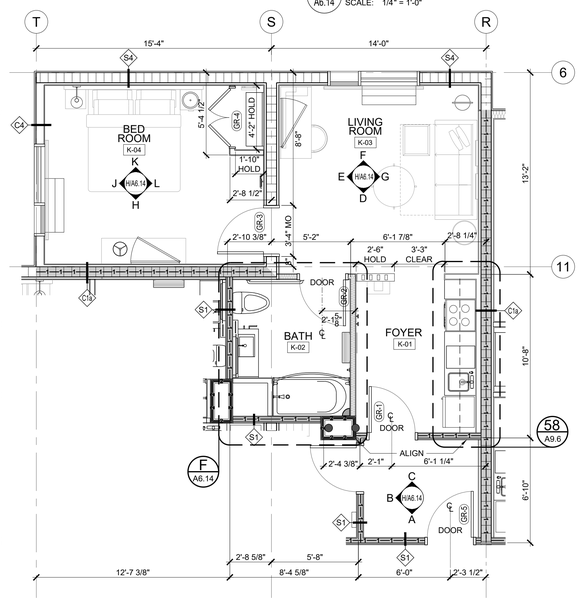
E KING SUITE LOCKOUT LEFT UNIT OUTLET PLAN
A6.14 SCALE: 1/4" = 1'-0"



D KING SUITE LOCKOUT LEFT UNIT FURNITURE PLAN
A6.14 SCALE: 1/4" = 1'-0"

C KING SUITE LOCKOUT LEFT UNIT FINISH PLAN
A6.14 SCALE: 1/4" = 1'-0"

B KING SUITE LOCKOUT LEFT UNIT REFLECTED CEILING PLAN
A6.14 SCALE: 1/4" = 1'-0"



A KING SUITE LOCKOUT LEFT UNIT FLOOR PLAN
A6.14 SCALE: 1/4" = 1'-0"

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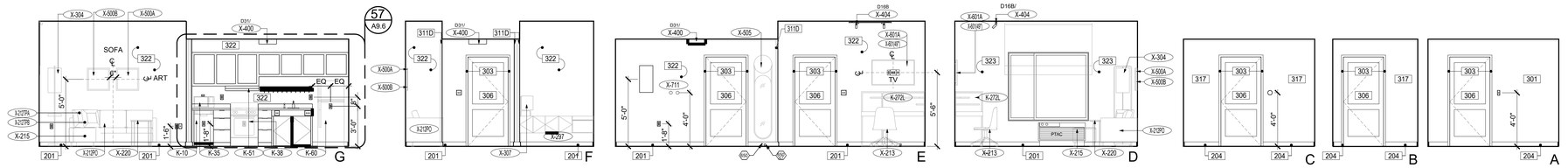
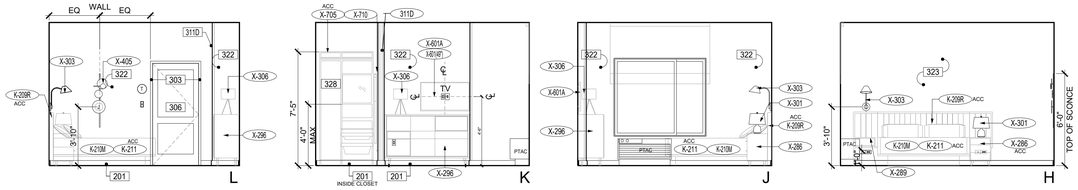
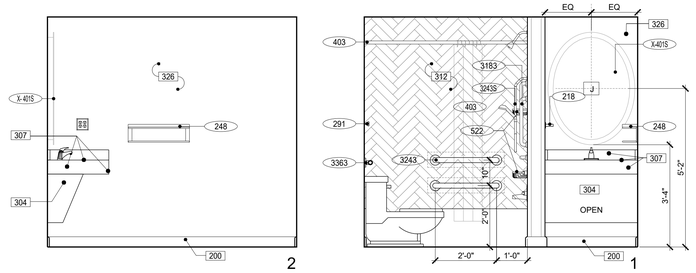
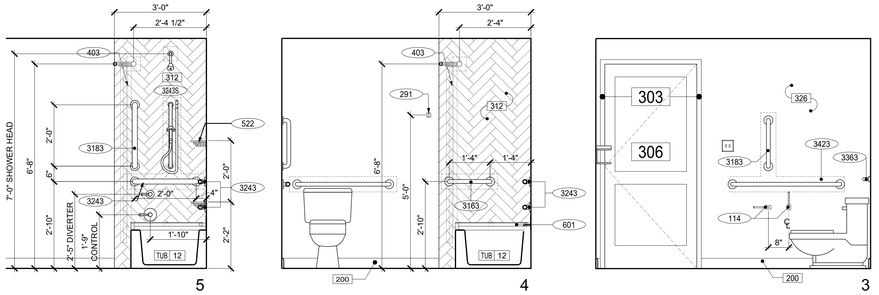


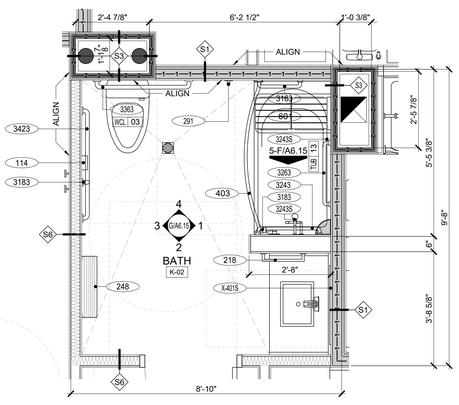


H A6.15 TYP KING SUITE LOCKOUT ADA-INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"





G A6.15 TYP KING SUITE LOCKOUT ADA - BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



F A6.11 KING SUITE LOCKOUT- ADA TUB UNIT BATHROOM PLAN
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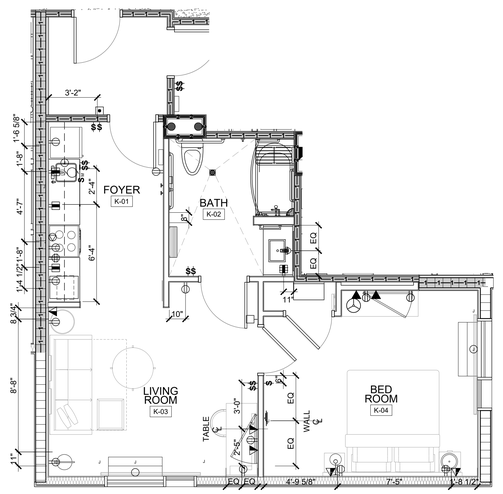
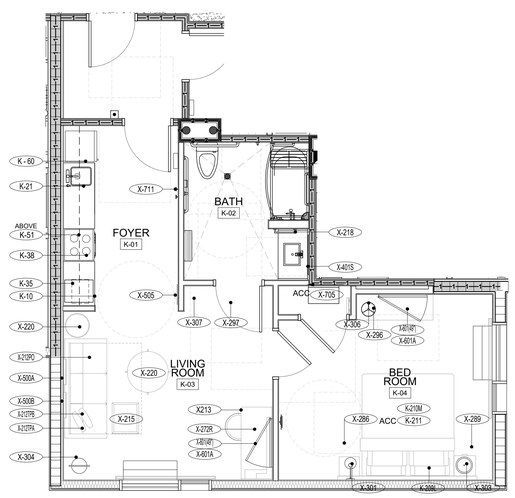
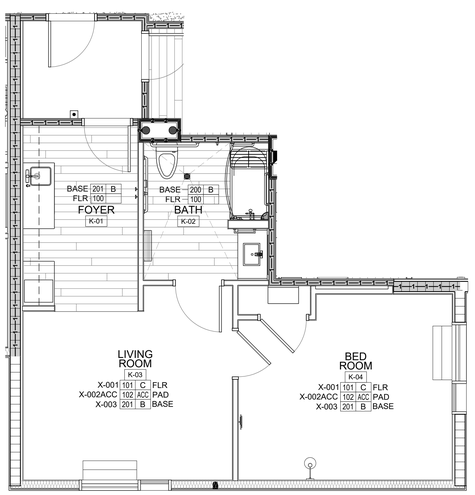
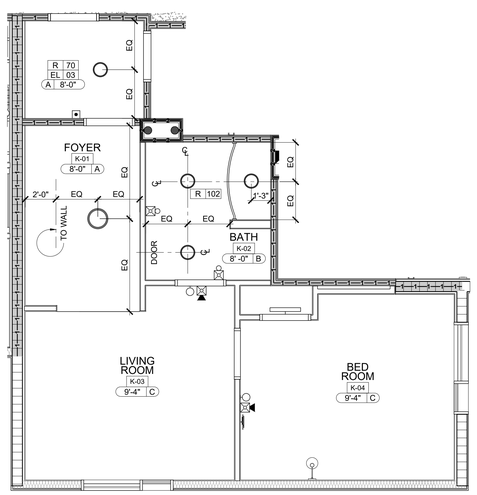




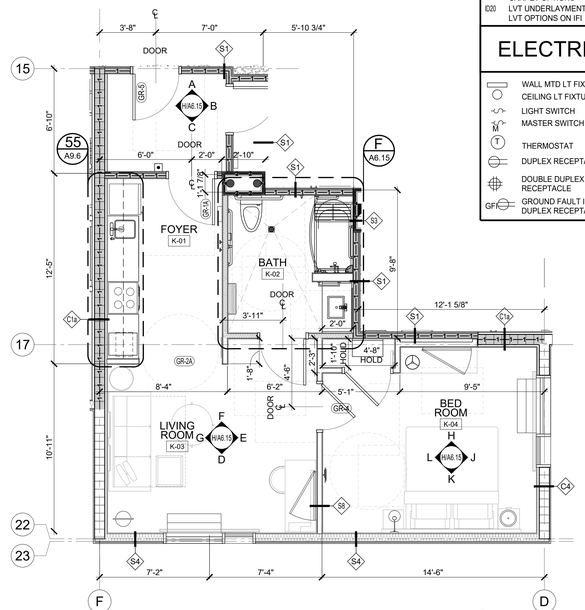
D A6.15 KING SUITE LOCKOUT- ADA TUB UNIT FURNITURE PLAN
SCALE: 1/4" = 1'-0"



C A6.15 KING SUITE LOCKOUT-ADA TUB UNIT FINISH PLAN
SCALE: 1/4" = 1'-0"



B A6.15 KING SUITE LOCKOUT-ADA TUB UNIT REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



A A6.15 KING SUITE LOCKOUT-ADA TUB UNIT FLOOR PLAN
SCALE: 1/4" = 1'-0"

REFERENCE

A. REFER TO TOWNEPLACE DESIGN STANDARDS "GUESTROOMS" CHAPTER FOR MAIN REQUIREMENTS RELATED TO THIS SHEET.

B. REFER TO TOWNEPLACE INTERIOR DESIGN SPECIFICATION MANUAL -VISUAL DECOR MAP TO PROPERLY SELECT INTERIOR FINISHES, ARTWORK AND OPTIONAL ITEMS FOR ALL GUESTROOM TYPES.

C. REFER TO A0.1 FOR STC ACOUSTIC REQUIREMENTS FOR PARTITIONS BETWEEN GUESTROOMS AND AT PUBLIC SPACE ADJACENCIES.

D. DIMENSIONS ARE TO EDGE OF STUD UNLESS SHOWN OR NOTED OTHERWISE. HOLD MINIMUM CLEAR DIMENSIONS.

E. PILLOWS ON GUESTROOM BEDS TO BE AS FOLLOWS:
KING: 4 PILLOWS (2 FOAM & 2 FEATHER)
QUEEN: 4 PILLOWS (2 FOAM & 2 FEATHER)
QUEEN/QUEEN: 3 PILLOWS (2 FOAM & 1 FEATHER)

CRITERIA NOTES

CRITERIA NOTES ARE SHOWN CATEGORIZED BY DISCIPLINE AND COULD BE INTERPRETED TO APPLY TO MORE THAN ONE DISCIPLINE. FOR EFFICIENCY, NOTES ARE ONLY SHOWN UNDER ONE PREDOMINANT DISCIPLINE. CONSULTANTS SHOULD FAMILIARIZE THEMSELVES WITH ALL CRITERIA NOTES. REFER TO TOWNEPLACE STANDARDS AND MANUAL FOR SPECIFICATIONS.

A1 WALL BASE STOP, TOILET ACCESSORY #650, TO BE USED IN LIEU OF WALL STOP WHEN MIRROR IS LOCATED BEHIND DOOR. REFER TO SPECIFICATION 08 71 00 DOOR HARDWARE

A2 LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT

A3 CUTOUT FOR MICROWAVE OUTLET TO BE MADE IN FIELD BY INSTALLER OF MILLWORK

A4 HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE DRAWER

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A128 GUESTROOM VANITIES CAN BE MILLWORK OR FF&E. MILLWORK DETAILS ARE PROVIDED WITHIN THE DESIGN GUIDELINE DRAWINGS. FF&E MARK NUMBER IS ALSO PROVIDED WITHIN THE DESIGN GUIDELINE DRAWINGS; REFER TO INTERIOR DESIGN SPECIFICATION MANUAL FOR FF&E.

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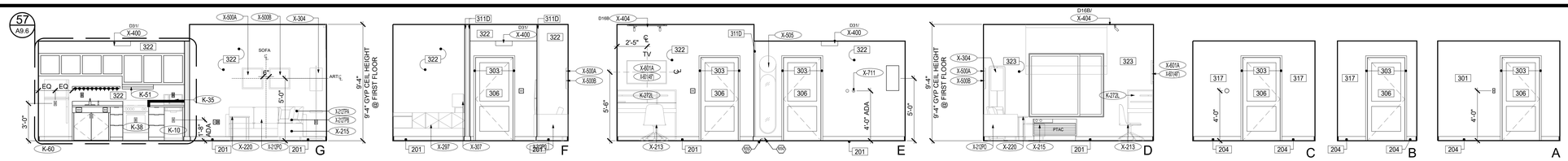
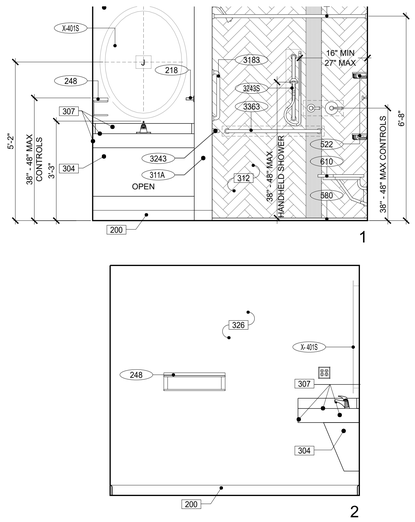
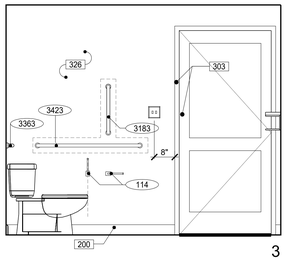
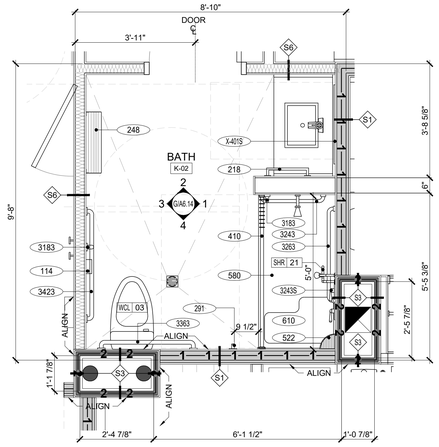


H A6.16 KING SUITE LOCKOUT ADA-SHO UNIT INTERIOR ELEVATIONS

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

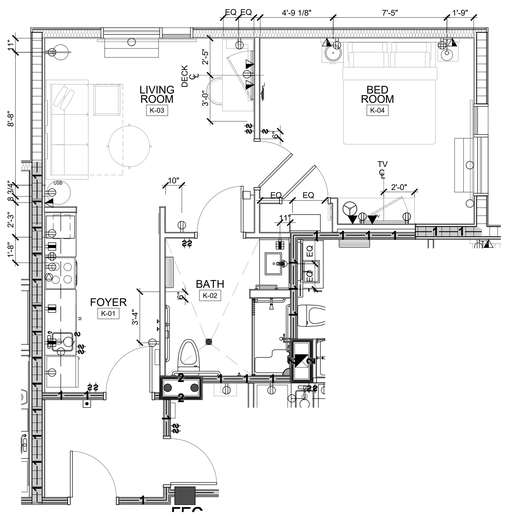






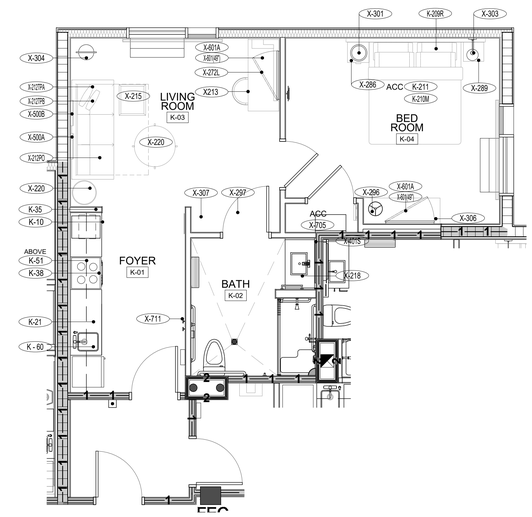
F A6.16 KING SUITE LOCKOUT ADA-SHO UNIT BATHROOM PLAN

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



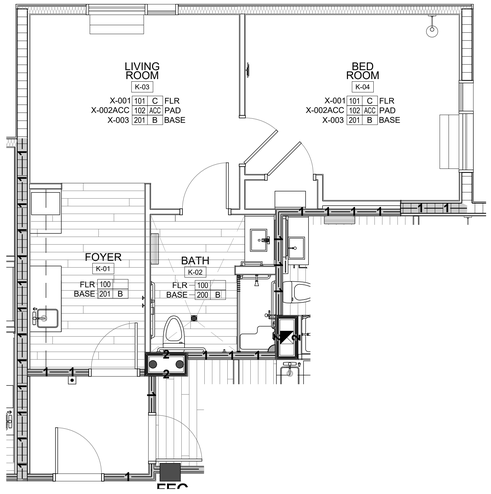
E A6.16 KING SUITE LOCKOUT ADA-SHO UNIT OUTLET PLAN

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



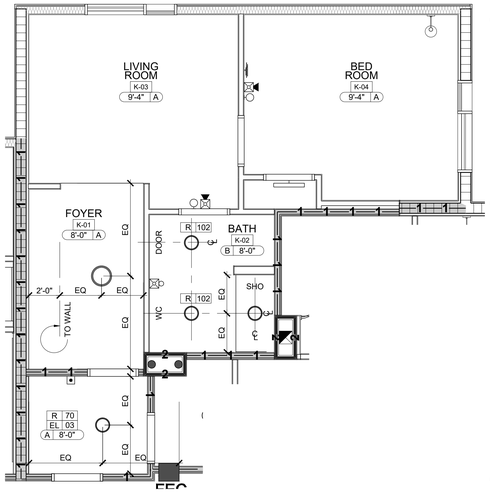
D A6.16 KING SUITE LOCKOUT ADA-SHO UNIT FURNITURE PLAN

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



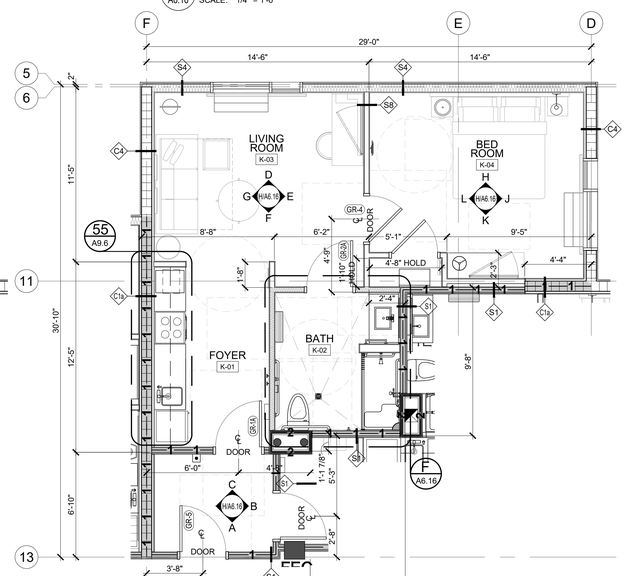
G A6.16 KING SUITE LOCKOUT ADA-SHO UNIT BATHROOM ELEVATIONS

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



C A6.16 KING SUITE LOCKOUT ADA-SHO UNIT FINISH PLAN

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



B A6.16 KING SUITE LOCKOUT ADA-SHO UNIT REFLECTED CEILING PLAN

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

A A6.16 KING SUITE LOCKOUT ADA-SHO UNIT FLOOR PLAN

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

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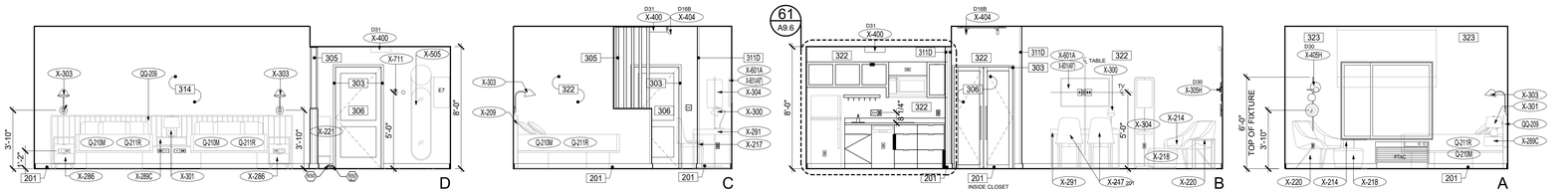
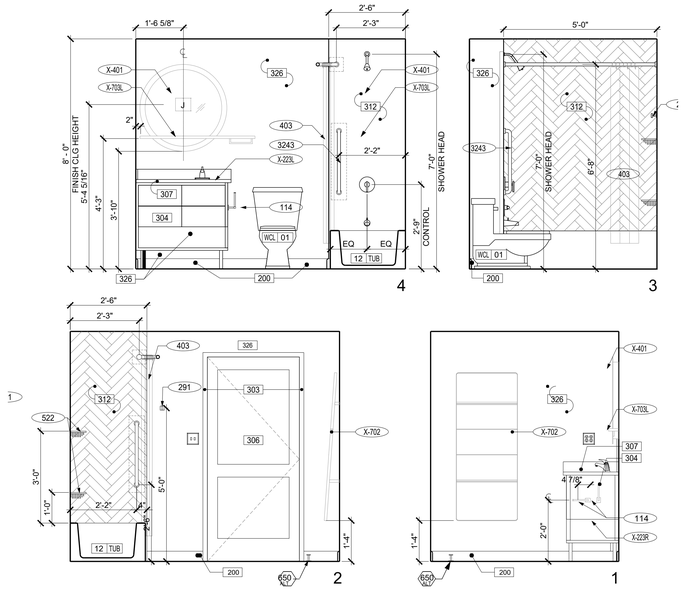
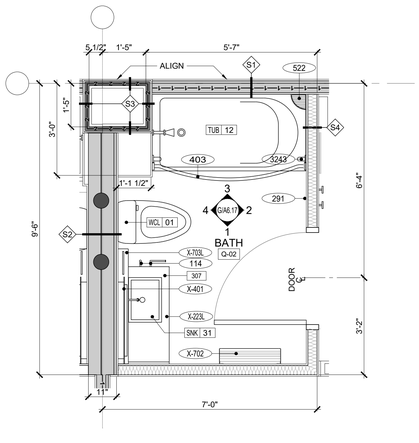


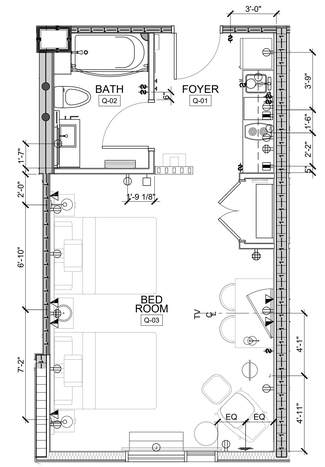
H A6.17 TYP QQ STUDIO CENTER UNIT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



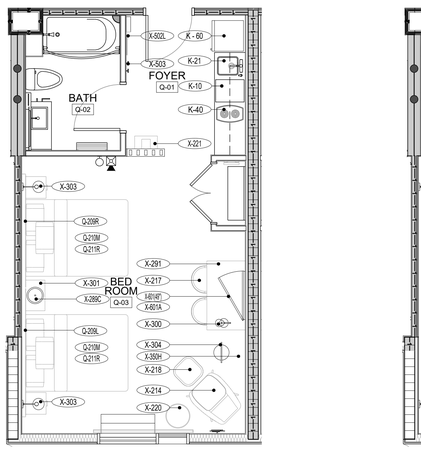
G A6.17 TYP QQ STUDIO CENTER UNIT BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



F A6.17 TYP QQ STUDIO CENTER UNIT BATHROOM PLAN
SCALE: 1/2" = 1'-0"



E A6.17 TYP QQ STUDIO CENTER UNIT OUTLET PLAN
SCALE: 1/4" = 1'-0"



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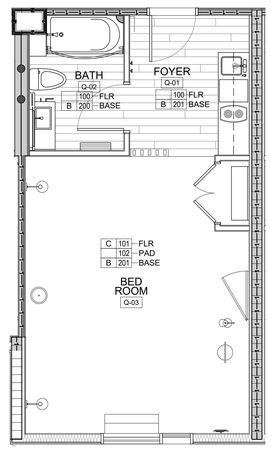
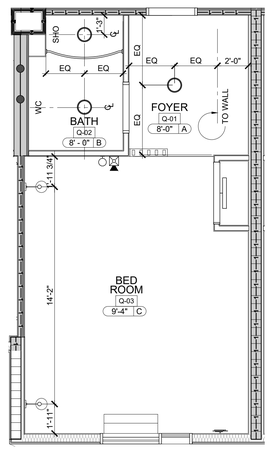
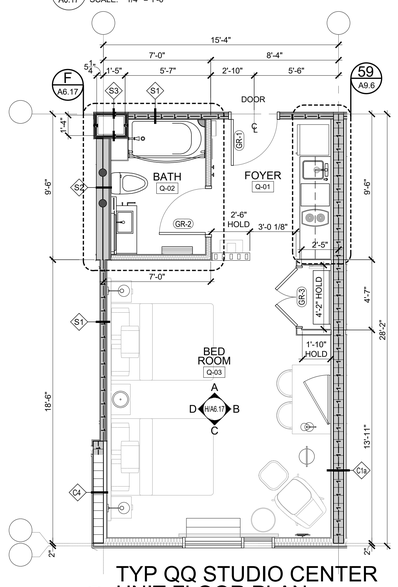
SCALE: 1/4" = 1'-0"



C A6.17 TYP QQ STUDIO CENTER UNIT FINISH PLAN
SCALE: 1/4" = 1'-0"



B A6.17 TYP QQ STUDIO CENTER UNIT REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



A A6.17 TYP QQ STUDIO CENTER UNIT FLOOR PLAN
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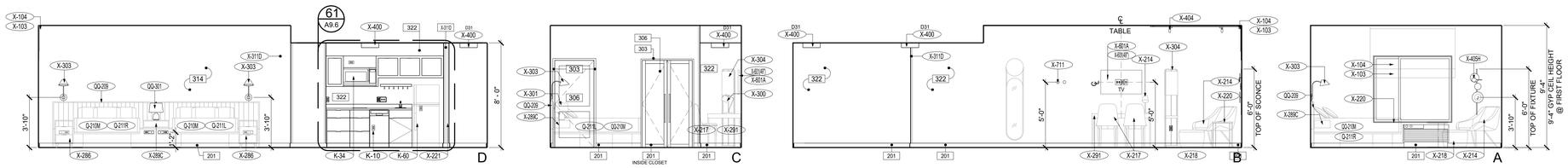
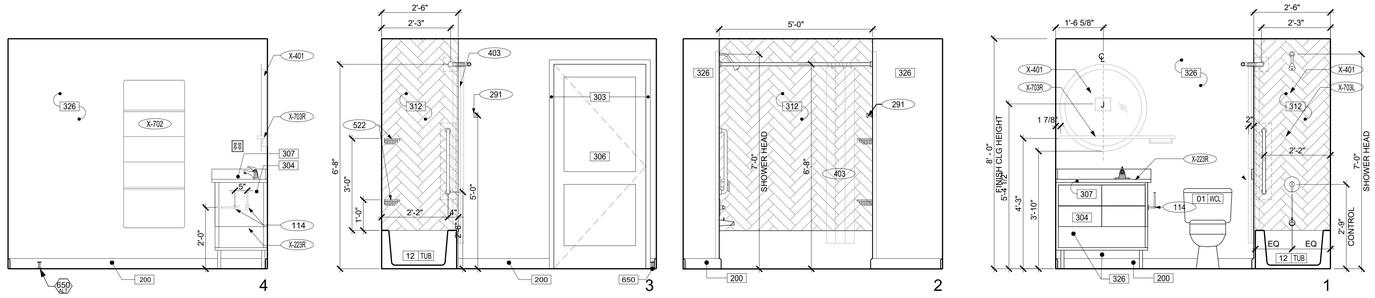
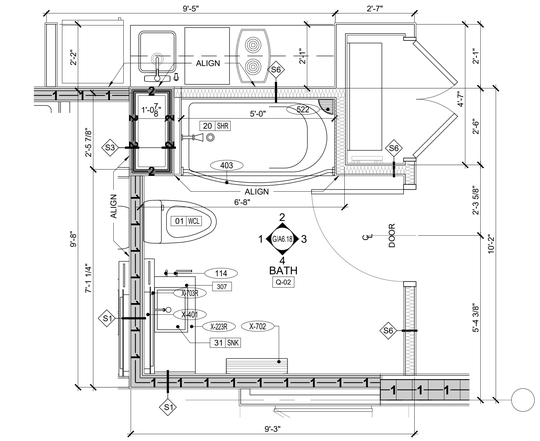


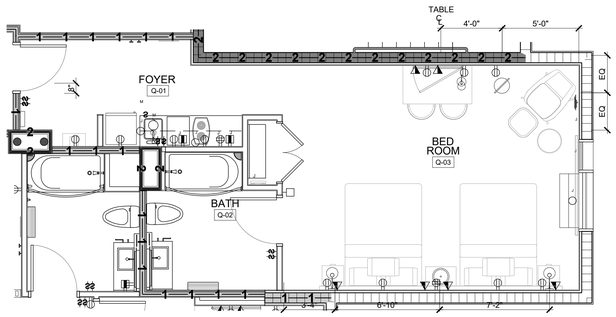
H A6.18 TYP QQ STUDIO END UNIT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



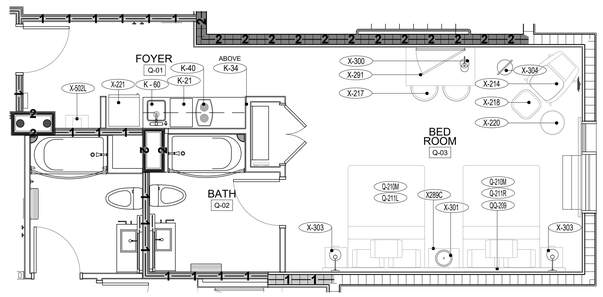
G A6.18 TYP QQ STUDIO-END BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



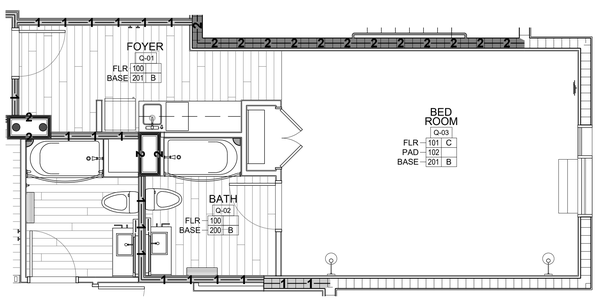
TYP QQ STUDIO-END UNIT BATHROOM PLAN
F A6.18 SCALE: 1/2" = 1'-0"



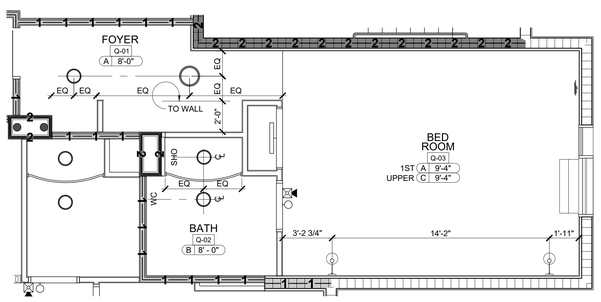
E A6.18 TYP QQ STUDIO-END UNIT OUTLET PLAN
SCALE: 1/4" = 1'-0"



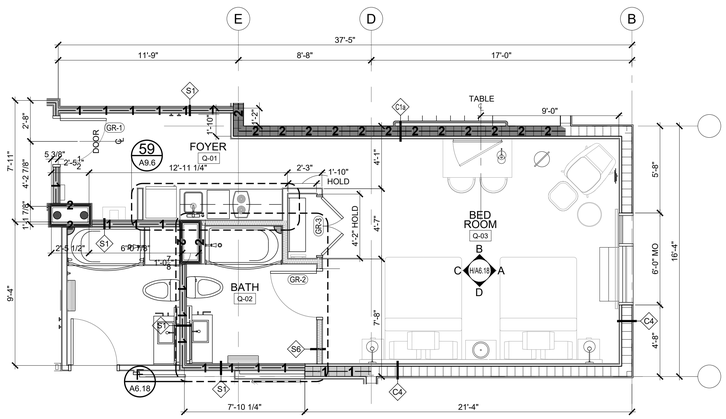
D A6.18 TYP QQ STUDIO-END UNIT FURNITURE PLAN
SCALE: 1/4" = 1'-0"



C A6.18 TYP QQ STUDIO-END UNIT FINISH PLAN
SCALE: 1/4" = 1'-0"



B A6.18 TYP QQ STUDIO-END UNIT REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



A A6.18 TYP QQ STUDIO-END UNIT FLOOR PLAN
SCALE: 1/4" = 1'-0"

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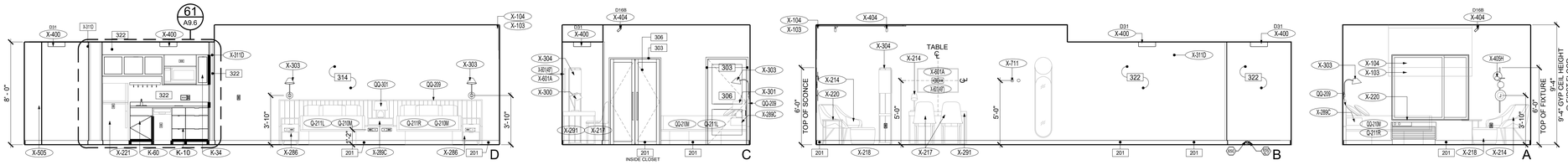
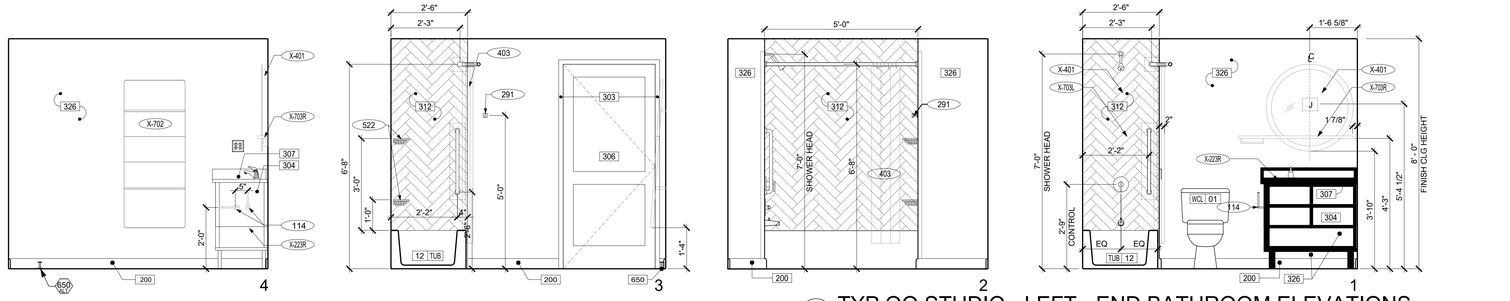
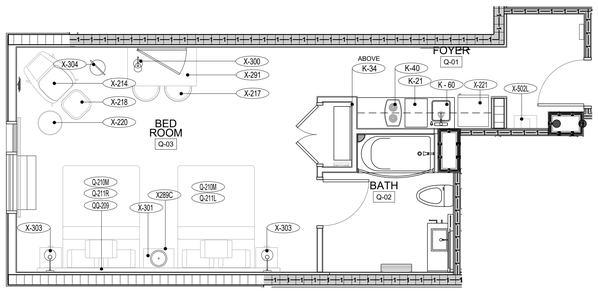


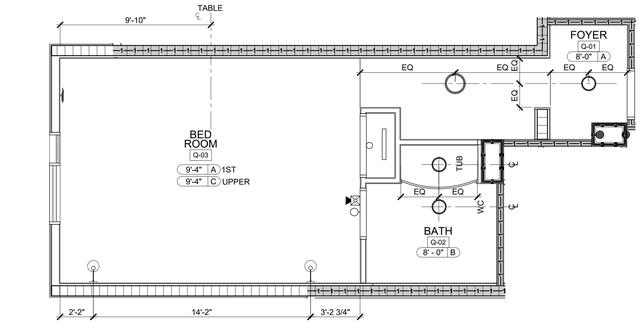
H A6.16 TYP QQ STUDIO - LEFT - END UNIT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



G A6.16 TYP QQ STUDIO - LEFT - END BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



D A6.16 TYP QQ STUDIO - LEFT - END UNIT FURNITURE PLAN
SCALE: 1/4" = 1'-0"



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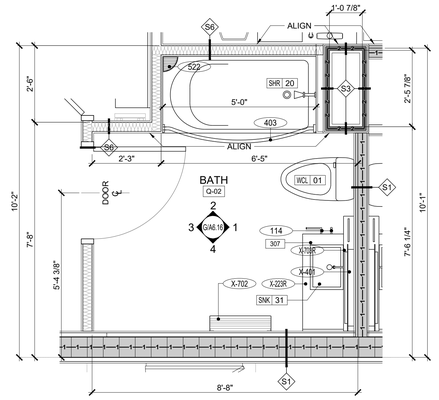

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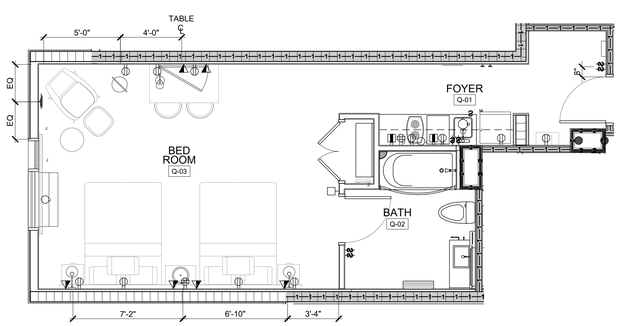

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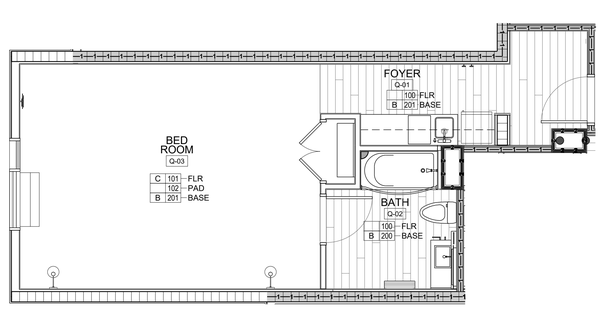
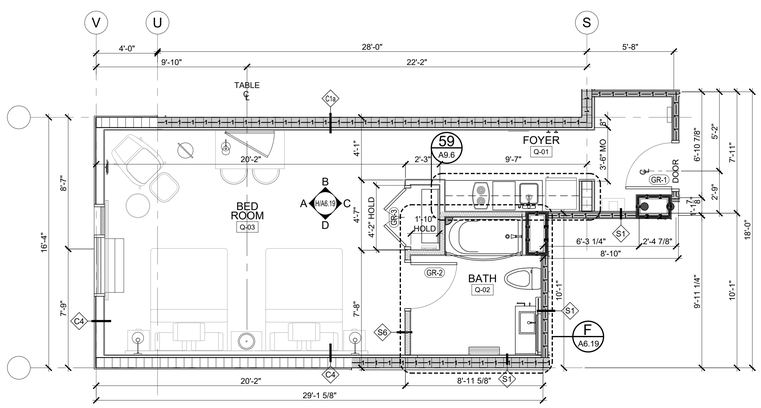


C A6.16 TYP QQ STUDIO - LEFT - END UNIT FINISH PLAN
SCALE: 1/4" = 1'-0"



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	LIGHT SWITCH	TV	TV OUTLET
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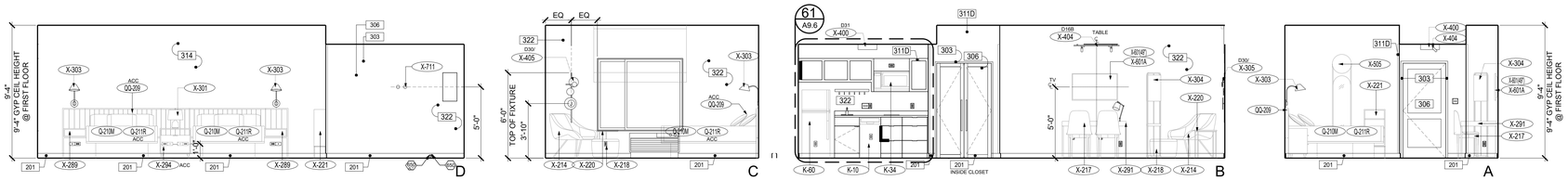
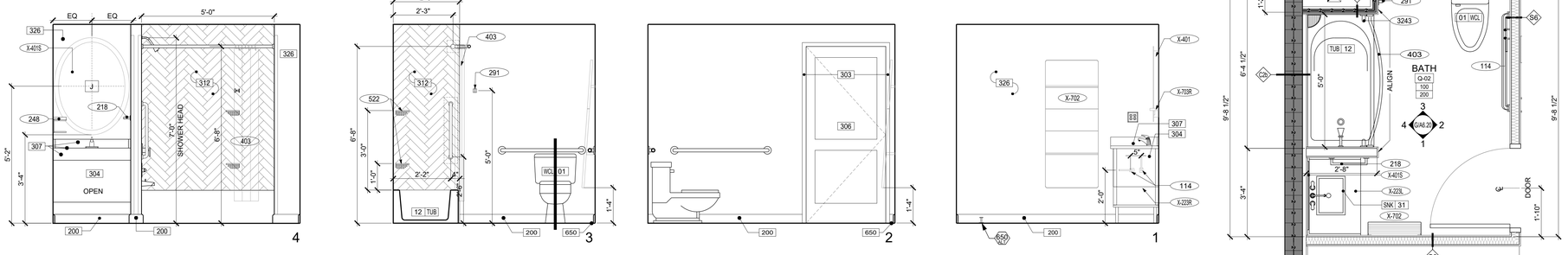
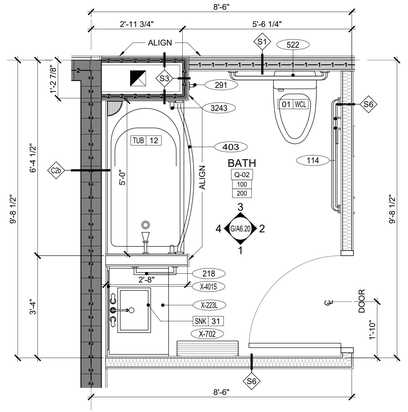


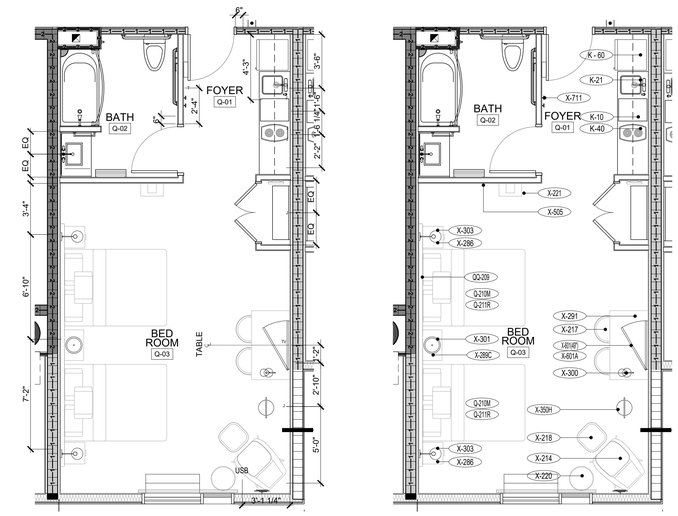
H A6.17 TYP QQ STUDIO-WIDE UNIT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



G A6.20 TYP QQ STUDIO WIDE UNIT BATHROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



F A6.20 TYP QQ STUDIO WIDE UNIT BATHROOM PLAN
SCALE: 1/2" = 1'-0"



E A6.20 TYP QQ STUDIO WIDE UNIT OUTLET PLAN
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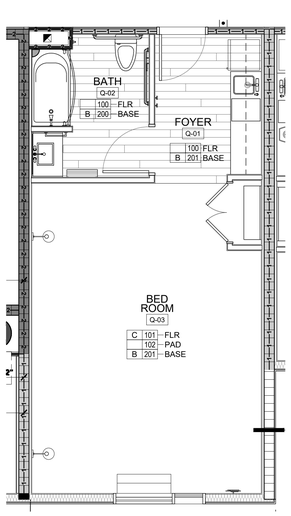

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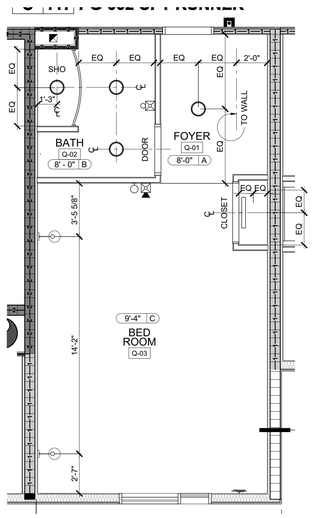

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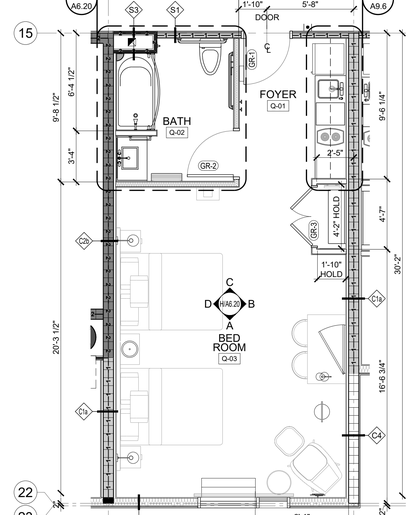

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ID1 TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS TO ELIMINATE MOLD AND MILDEW

ID2 ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS

ID3 REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND ELEVATIONS FOR ROLLER SHADE INFORMATION

ID5 CENTER ARTWORK ON WALL OR AS SHOWN

ID8 CLOSET CEILING PAINT TO MATCH THE WALL PAINT WITHIN THE CLOSET; REFER TO INTERIOR FINISH INDEX #328 FOR WALLS AND #404 FOR CEILING

ID18 ALIGN TOP MIRROR X-502 AND COAT HOOK WITH PANEL X-503 WITH TOP OF DOOR FRAME

ID19 CARPET PAD TO BE INSTALLED ONLY WITH BROADLOOM CARPET OPTIONS

ID20 LVT UNDERLAYMENT MAY BE NEEDED; COORDINATE WITH LVT OPTIONS ON IFI

ELECTRICAL LEGEND

WALL MTD LT FIXTURE	TELEPHONE OUTLET
CEILING LT FIXTURE	DATA
LIGHT SWITCH	TV OUTLET
MASTER SWITCH	RACEWAY AND WIRING
THERMOSTAT	JUNCTION BOX
DUPLEX RECEPTACLE	
DOUBLE DUPLEX RECEPTACLE	
GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE	

AA C000606

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377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
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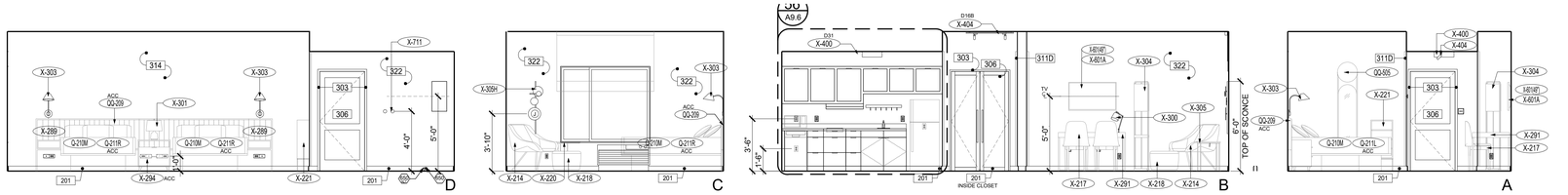
REVISION

JOB NO.

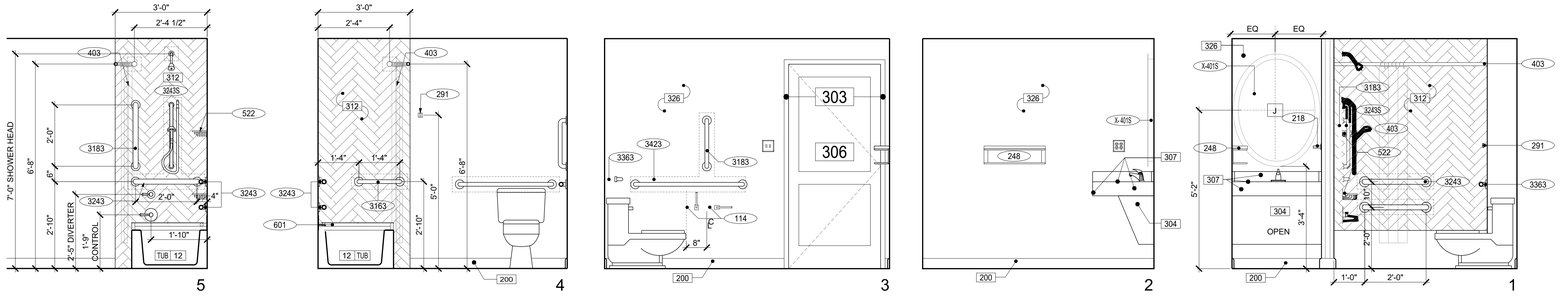
DATE

SHEET
A6.20
OF



H A6.18 TYP QQ STUDIO-ADA UNIT INTERIOR ELEVATIONS

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



G A6.21 TYP QQ STUDIO-ADA UNIT BATHROOM ELEVATIONS

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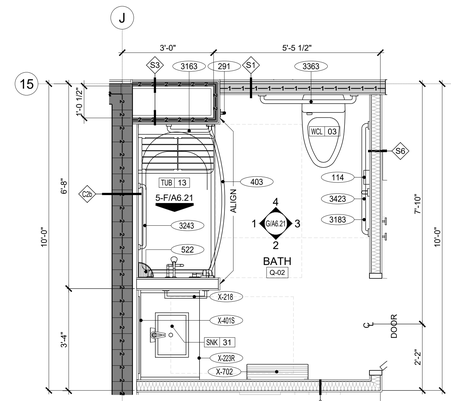
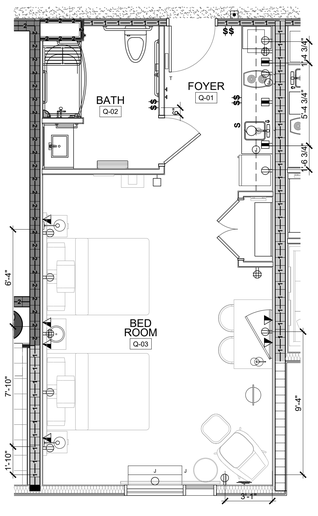


F A6.21 TYP QQ STUDIO-ADA UNIT BATHROOM PLAN

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



E A6.21 TYP QQ STUDIO-ADA UNIT OUTLET PLAN

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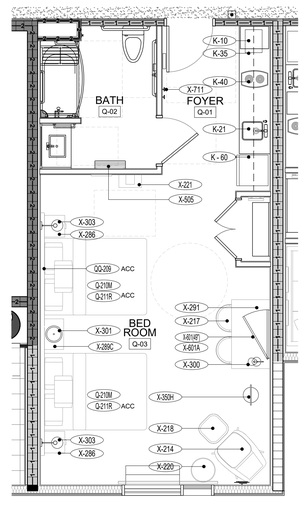
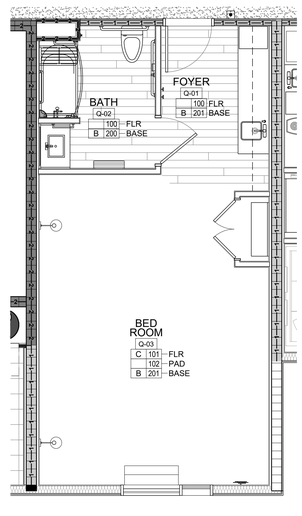


D A6.21 TYP QQ STUDIO-ADA UNIT FURNITURE PLAN

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



C A6.21 TYP QQ STUDIO-ADA UNIT FINISH PLAN

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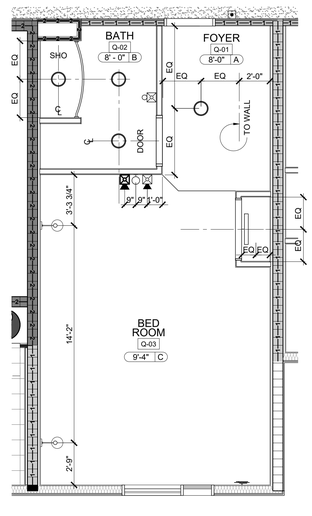
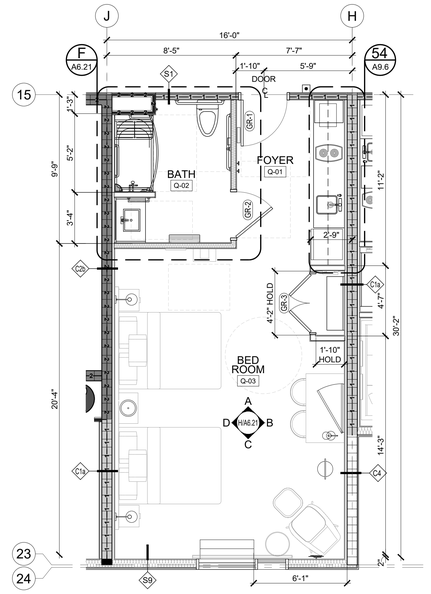


B A6.21 TYP QQ STUDIO-ADA UNIT REFLECTED CEILING PLAN

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



A A6.21 TYP QQ STUDIO-ADA UNIT FLOOR PLAN

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

REFERENCE

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A10 PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS

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REVISION

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DATE

SHEET

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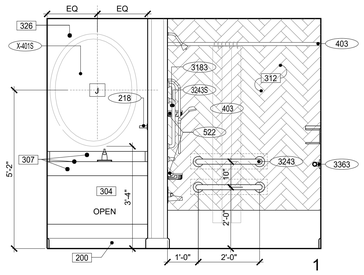

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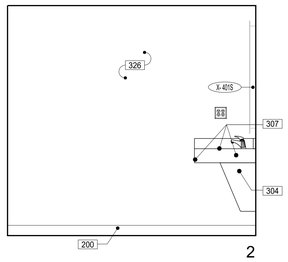

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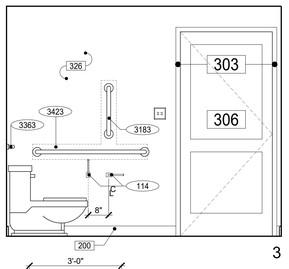

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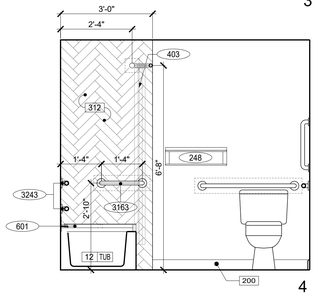

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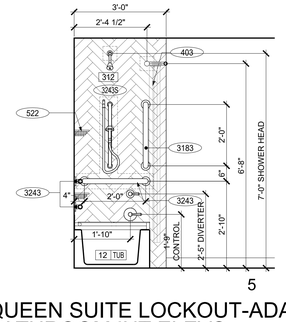

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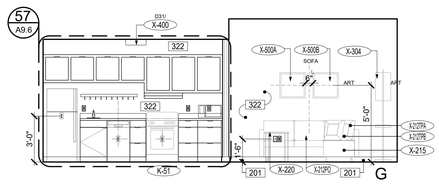
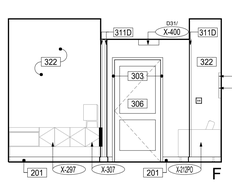
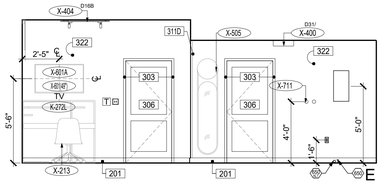
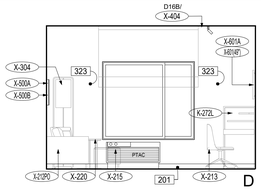
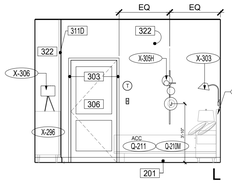
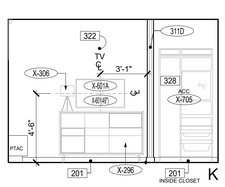


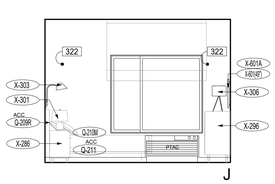


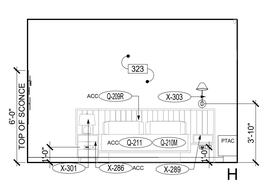






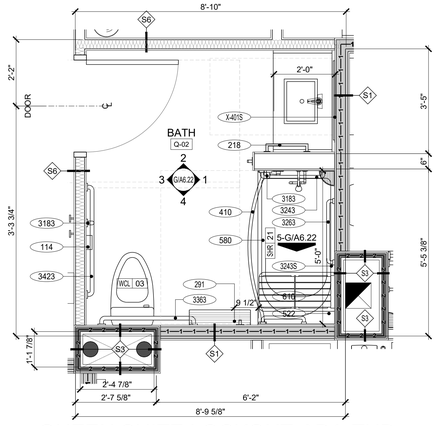






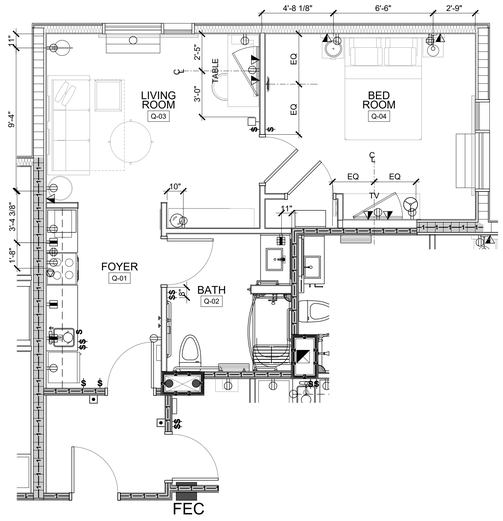
H A6.22 QUEEN SUITE LOCKOUT-ADA-TUB INTERIOR ELEVATIONS

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



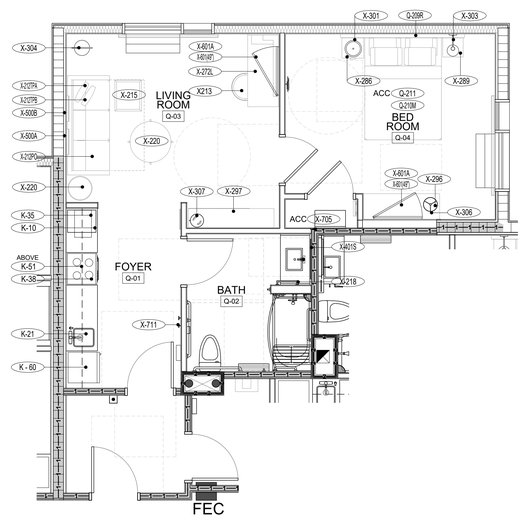
F A6.22 QUEEN SUITE LOCKOUT-ADA-TUB ENLARGED BATHROOM PLAN

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



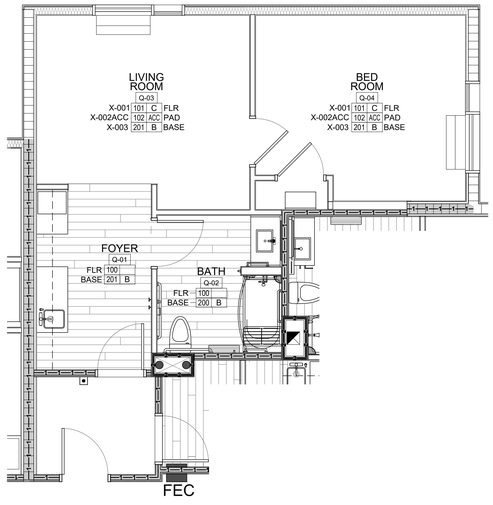
E A6.22 QUEEN SUITE LOCKOUT-ADA-TUB UNIT OUTLET PLAN

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



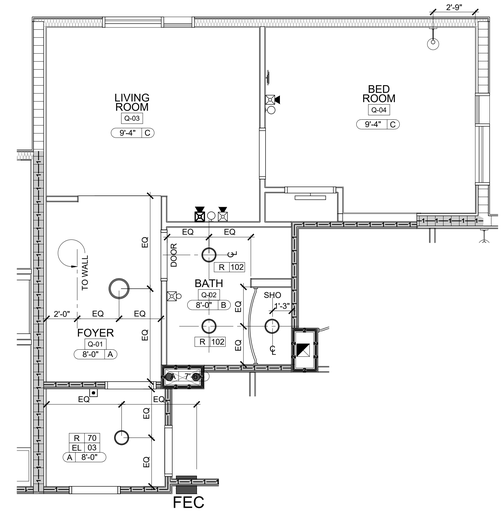
D A6.22 QUEEN SUITE LOCKOUT-ADA-TUB UNIT FURNITURE PLAN

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



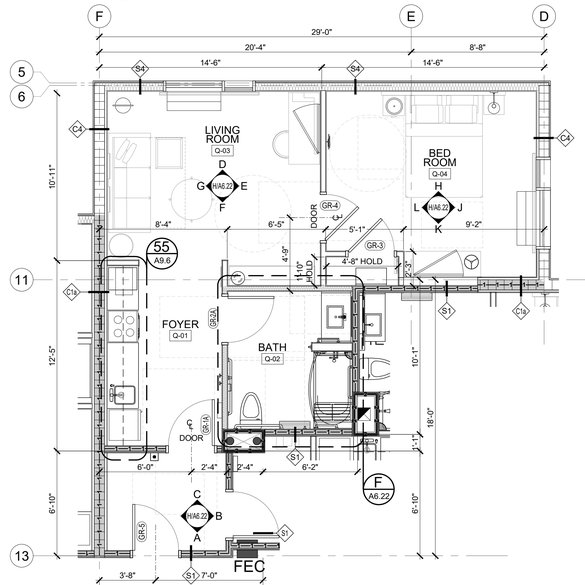
C A6.22 QUEEN SUITE LOCKOUT-ADA-TUB UNIT FINISH PLAN

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



B A6.22 QUEEN SUITE LOCKOUT-ADA-TUB UNIT REFLECTED CEILING PLAN

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



A A6.19 QUEEN SUITE LOCKOUT-ADA-TUB UNIT FLOOR PLAN

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

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- WALL MTD LT FIXTURE
- CEILING LT FIXTURE
- LIGHT SWITCH
- M MASTER SWITCH
- T THERMOSTAT
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE
- TELEPHONE OUTLET
- DATA
- TV TV OUTLET
- RACEWAY AND WIRING
- J JUNCTION BOX

AA C000606

HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
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TOWNEPLACE SUITES®
BY MARRIOTT

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET
A6.22
OF

DOOR HARDWARE SCHEDULE

T-23

MEN / WOMEN / EMPLOYEE RESTROOM

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
6 EA	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA	PRIVACY SET	US15	28-65U65 KL	SAR
1 EA	CLOSER	689	2701	YAL
1 EA	WALL STOP	US15	1720WVCP	TRM
1 SET	DOOR HEAD SEAL		SS773D	PEM

T-24

FITNESS CENTER / GUEST LAUNDRY

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
6 EA	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA	LOCK	US15	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA	CLOSER	689	2701	YAL
1 EA	WALL STOP	US15	1720WVCP	TRM
1 SET	DOOR SEAL		SS773D	PEM

T30

OFFICES

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA	LOCK	US15	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA	WALL STOP	US15	1720WVCP	TRM
3 EA	SILENCERS		1229A	TRM

T31

FOOD PREP / HOUSE LAUNDRY / ENGINEER/ MECHANICAL

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA	LOCK	US15	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA	CLOSER	689	2701	YAL
1 EA	WALL STOP	US15	1720WVCP	TRM
3 EA	SILENCERS		1229A	TRM

T-34

FLEX SPACE/ROOM

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA	TOP HUNG SLIDING DOOR ASSEMBLY		SLIDO CLASSIC 120-P	HAF
2 EA	CUSTOM DOOR PULL - BROWN		AC722G-41/4 TIGER	TRM
			Tiger 049-66230	

T-34B

BUFFET

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA	POCKET DOOR SET	626	DN 150 TRACK 12'	RIC
			# 89021U1501210	
2 EA	SOFT CLOSE	626	8910107026510	RIC
1 EA	PULL	626	RM7920 X 12''	RIC

T-35

DRYERS

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA	PASSAGE SET	US26D	28-10U15 LP	SAR
1 EA	CLOSER	689	2701 (ACTIVE LEAF)	YAL
1 EA	WALL STOP	US15	1270WVCP	TRM
3 EA	SILENCERS		1229A	TRM

T-41

EXTERIOR GATES

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA	EXIT DEVICE	US15	QUANTUM RFID X BLE	SAF/MN
			X TROY X F18-R	
			(LESS DEAD BOLT)	

NOTE: LATCH TO BE CHILDPROOF.

NOTE: QUANTUM RFID IS BATTERY OPERATED CARD LOCK.

F-18-R MECHANICAL RIM DEVICE CAN BE CUT DOWN TO SIZE IN FIELD.

DIMENSIONS OF INSIDE LATCH ARE 2-1/2"W X 8-1/2" H.

NOTE: HINGES AND CLOSER PROVIDED BY GATE MANUFACTURER.

T42

PRE-FUNCTION AREA

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA (6)	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA (2)	LOCK	US15	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA (2)	WALL STOP	US15	1720WVCP	TRM
3 EA (6)	SILENCERS		1229A	TRM

T-43

EXTERIOR FLEX

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA (2)	OH CONCEALED CLOSER	US26D	0608090N X LCP	RIX
1 EA (2)	EXIT DEVICE	US26D	EL33NL-OP	VDI
1 EA (2)	CYLINDER 34	US26D		SAR
1 EA (2)	LOCK	US32D	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA	ELEC POWER TRANSFER		EPT10	VDI
1 EA	POWER SUPPLY		PS914	VDI
1 EA	FLOOR STOP	US26D	1233	TRM
1 EA	THRESHOLD	ALUM	172G	PEM
1 EA	DOOR SWEEP	ALUM	315GN	PEM
1 SET	DOOR SEALS	S773D		PEM

T-11

EXTERIOR STAIRS/EXTERIOR ENTRANCE (REAR)

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US26D	TA2314 4.5 X 4.5 NRP	MCK
1 EA	ELEC EXIT DEV.	US26D	EL99NL-OP	VDI
1 EA	CYLINDER 34	US26D		SAR
1 EA	CLOSER	689	2721	YAL
1 EA	POWER SUPPLY		PS914	VDI
1 EA	RFID REMOTE READER	US32D	RCU RFID X BLE	SAF
1 EA	ELEC POWER TRANSFER		EPT10	VDI
1 EA	THRESHOLD	US26D	172B	PEM
1 EA	DOOR SWEEP		315GNALUM	PEM
1 SET	DOOR SEALS	S773D		PEM

T-12

EXTERIOR FROM POOL

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA	OH CONCEALED CLOSER	US26D	0608090N X LCP	RIX
1 EA	EXIT DEVICE	US26D	EL33NL-OP	VDI
1 EA	CYLINDER 34	US26D		SAR
1 EA	LOCK	US32D	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA	ELEC POWER TRANSFER		EPT10	VDI
1 EA	POWER SUPPLY		PS914	VDI
1 EA	FLOOR STOP	US26D	1233	TRM
NOTE: CONTINUOUS HINGES, THRESHOLD & DOOR SEALS BY DOOR MANUFACTURER				

T-13

EXTERIOR FLEX

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA	OH CONCEALED CLOSER	US26D	0608090N X LCP	RIX
1 EA	EXIT DEVICE	US26D	EL33NL-OP	VDI
1 EA	CYLINDER 34	US26D		SAR
1 EA	LOCK	US32D	QUANTUM RFID X BLE	SAF
			X TROY	
			(LESS DEAD BOLT)	
1 EA	ELEC POWER TRANSFER		EPT10	VDI
1 EA	POWER SUPPLY		PS914	VDI
1 EA	DOOR VIEWER	US26D	U696B	IVES
1 EA	FLOOR STOP	US26D	1233	TRM
1 EA	THRESHOLD	ALUM	172G	PEM
1 EA	DOOR SWEEP	ALUM	315GN	PEM
1 SET	DOOR SEALS	S773D		PEM

T-15

EXTERIOR VESTIBULE ENTRY

NOTE: AUTOMATIC DOOR HARDWARE & ACCESSORIES BY DOOR MANUFACTURER

T-15A

INTERIOR VESTIBULE ENTRY

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
1 EA	PUSH BUTTON RELEASE		MUSHROOM BUTTON 32310	SAF
1 EA	KEYSWITCH	US32D	653-04	SCE
1 EA	CYLINDER	US32D	41 (@ KEYSWITCH)	SAR
1 EA	REMOTE CONTROL UNIT		FLUSH MTD. 94770 RFID X BLE	SAF
1 EA	POWER SUPPLY		32280	SAF
1 EA	AIPHONE INTERCOM SYSTEM		LEM-1 DLS	AIP
NOTE: AUTOMATIC DOOR HARDWARE & ACCESSORIES BY DOOR MANUFACTURER				

T-16

ELECTRICAL / SERVER CLOSET / LAUNDRY STORAGE

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	T2714 3.5 X 3.5	MCK
1 EA	LOCK	US15	QUANTUM RFID X BLE	SAF
			X TROY	
1 EA	CLOSER	689	2721	YAL
1 EA	WALL STOP	US15	1270WVCP	TRM
1 SET	DOOR SEAL		SS773D	PEM

T-17

LINEN STORAGE / STORAGE

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	T2714 3.5 X 3.5	MCK
1 EA	LOCK	US15	QUANTUM RFID X BLE	SAF
			X TROY	
1 EA	CLOSER	689	2701	YAL
1 EA	WALL STOP	US15	1270WVCP	TRM
1 SET	DOOR SEAL		SS773D	PEM

T-19

EXT FOOD PREP / EXT ELEC / EXT POOL STORAGE

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US26D	TA2314 4.5 X 4.5 NRP	MCK
1 EA	LOCKSET	US26	8204 LNP	SAR
1 EA	CLOSER	689	2721	YAL
1 EA	THRESHOLD	US26D	172B	PEM
1 EA	DOOR SWEEP	US26D	315BN	PEM
1 SET	DOOR SEAL		SS773D	PEM
1 SET	DOOR HEAD SEAL	ALUM		PEM

T-19A

EXTERIOR MECHANICAL

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
6 EA	HINGES	US26D	TA2314 4.5 X 4.5 NRP	MCK
1 EA	FLUSH BOLTS	US26D	3917	TRM
1 EA	DUST PROOF STRIKE	US26D	3910	TRM
1 EA	LOCKSET	US26D	8204 LNP	SAR
1 EA	CLOSER	689	2721 (ACTIVE LEAF)	YAL
1 EA	THRESHOLD	US26D	172B	PEM
1 EA	DOOR SWEEP	US26D	315BN	PEM
1 SET	DOOR SEAL		SS773D	PEM
1 SET	DOOR HEAD SEAL	ALUM		PEM

T-01

GUEST ENTRY

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	FBB179 4-1/2"x4-1/2"	DOR
1 EA	LOCK	US15	QUANTUM RFID X BLE X ADB	SAF
			X TROY	
1 EA	CLOSER	689	2710DE	YAL
1 EA	KICKPLATE		K0050 8" X 2" LDW	
			US32DTRM	
1 EA	DOOR GUARD	B15	SDG-26D	NGP
1 EA	DOOR VIEWER	US26D	619 (WITH HINGED COVER 622VC)	RO
1 EA	GASKETING	5050B		NGP
1 EA	WALL STOP	619	1270WV	TRM
1 EA	AUTO DOOR		PDB411AE BOTTOM	PEM
AT LOCKOUT DOORS ONLY:				
PROVIDE FUNCTION THAT ALLOWS DOOR TO BE UNLOCKED AT ALL TIMES BY CODING RFID CARD.				
USING INSIDE DEADBOLT OVERIDES AND LOCKS DOOR				
1 EA	MAG SWITCH REFER TO SECTION		25 51 10	

T-01F

CORRIDOR TO GUESTROOM LOCKOUT ROOM

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US26D	TA2714 4.5 X 4.5	MCK
1 EA	LOCK	US26D	MT RFID X ADB X BLE X	SAF
			CONTINENTAL	
1 EA	CLOSER	689	2701	YAL
1 EA	DOOR GUARD	607	US26D	PDL
1 EA	DOOR VIEWER	US26D	627 (WITH HINGED COVER)	RO
1 EA	WALL STOP	US26D	1270WVCP	TRM
1 SET	DOOR SEALS	S773D		PEM
1 EA	MAG SWITCH REFER TO SECTION		25 51 10	

T-02

GUEST BATH / ACCESSIBLE BATH

3 EA	HINGES	US15	T2714 3.5 X 3.5	MCK
1 EA	PRIVACY SET	US15	28-65U65 KP	SAR
1 EA	HINGE STOP			
1 EA	FLOOR STOP WMEFMSBDS	US15	WIT	PEM
(REFER TO TOILET ACCESSORY MARK NO. 650)				
1 EA	SILENCERS	1229A		TRM

T-03

GUEST BEDROOM

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	T2714 3.5 X 3.5	MCK
1 EA	PRIVACY SET	US26D	28-65U65 KP	SAR
1 EA	WALL STOP	619	1270WV	TRM
1 EA	SILENCERS	1229A		TRM

T-04A

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
GUEST CLOSET/ WORK ROOM CLOSET/ IN-A-PINCH STORAGE/ DRY CLEANING				
3 EA	HINGES	US15	FBB1779 3/12"x3-1/2"	DOR
1 EA	PULL		AC5324 (24") CTC SGL	
			BLACK MATTE	AC
1 EA	MAGNETIC CATCH 810			TRM
NOTE: FOR CLOSETS WITH DOORS, INCLUDE THE FOLLOWING:				
1 EA	DOOR POSITION SWITCH		DPS-M-WH - WHITE	SEC

T-10

INTERIOR STAIRS

QTY	ITEM	CAT	SPECIFICATIONS	MANUF
3 EA	HINGES	US15	TA2714 4.5 X 4.5	MCK
1 EA	PASSAGE SET	US26D	28-10U15 KP	SAR
1 EA	CLOSER	689	2701	YAL
1 EA	FLOOR STOP	US15	US15	TRM
1 EA	WALL MAGNET	689(SA)	FM998	RIX
1SET	DOOR SEALS	S773D		PEM

NOTES

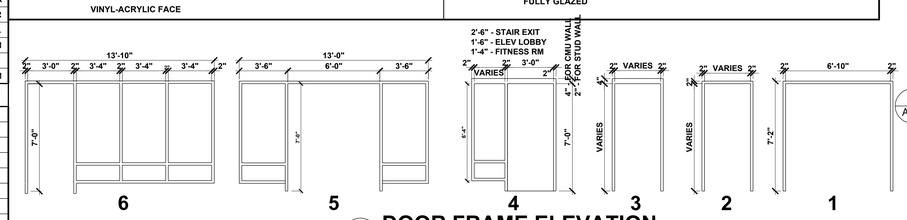
1. WALL MAGNET TO BE TIED INTO FIRE ALARM SYSTEM.
2. EGRESS DOORS SHALL NOT BE LOCKABLE IN THE DIRECTION OF EGRESS.
3. DOORS FROM THE STAIR ONTO A FLOOR SHALL NOT BE LOCKABLE INCLUDING AUTOMATIC UNLOCKING DEVICES.
4. PROVIDE WELDED HOLLOW METAL FRAMES AT GUESTRM ENTRY AND CONNECTING DOORS.
5. REFER TO SPEC SECTION 081400 FOR DOOR CONSTRUCTION OF TOWNEPLACE GEN 5 SPECS OF ALL PUBLIC SLIDING BARN DOORS.

DOOR SCHEDULE

DOOR MARK	ROOM NAME	DOOR DIMENSIONS			DOOR SPECIFICATIONS					DOOR MATERIALS				FRAME MATERIALS		REMARKS
		WIDTH	HEIGHT	THK	TYPE	FRAME TYPE	FIRE RATING	DETAIL SET	HARD-WARE SET	MATERIAL	FINISH	GLASS	GLASS TYPE	MATERIAL	FINISH	
STAIR DOORS																
109a	STAIR 1	3'-0"	7'-0"	1 3/4"	J	4		9/A7.3	T-11	GL/AL	ANNO		TEMP	AL	ANNO	
109b	STAIR 1	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
109c	STAIR 1	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
109d	STAIR 1	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
109e	STAIR 1	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
109f	STAIR 1	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
134a	STAIR 2	3'-0"	7'-0"	1 3/4"	J	4		9/A7.3	T-11	GL/AL	ANNO		TEMP	AL	ANNO	
134b	STAIR 2	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
134c	STAIR 2	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
134d	STAIR 2	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
134e	STAIR 2	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
134f	STAIR 2	3'-0"	7'-0"	1 3/4"	L	3	90 MIN	3/A7.2	T-10	HM	TDO			HM	PAINT	
1ST FLOOR, POOL, DUMPSTER																
101a	VESTIBULE	4'-0"	7'-0"	1 3/4"	A	1		6/A7.3	T-15A	GL/AL	ANNO		TEMP	AL	ANNO	BRKAWAY DOOR - TO EGRESS
101b	VESTIBULE	4'-0"	7'-0"	1 3/4"	A	1		5/A7.2	T-15	GL/AL	ANNO		TEMP	AL	ANNO	BRKAWAY DOOR - TO EGRESS
102	MECH ROOM	3'-0"	6'-8"	1 3/4"	L	2		2/A7.2	T-04A	WDSR	TDO			HM	PAINT	3 SETS
105a	GENERAL MANAGER	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-30	WDSR	TDO			HM	PAINT	
105b	GENERAL MANAGER	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-30	WDSR	TDO			HM	PAINT	
106	SALES OFFICE	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-30	WDSR	TDO			HM	PAINT	
107	WORK ROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-30	WDSR	TDO			HM	PAINT	
107a	STORAGE ROOM	PR 2'-0"	6'-8"	1 3/4"	H	2		2/A7.2	T-04A	WDSR	TDO			WD	PAINT	
107b	LENDING CLOSET	PR 3'-0"	6'-8"	1 3/4"	H	2		2/A7.2	T-04A	WDSR	TDO			WD	PAINT	3 SETS
107c	CLOSET	PR 1'-9"	6'-8"	1 3/4"	H	2		2/A7.2	T-04A	WDSR	TDO			WD	PAINT	3 SETS
107d	SERVER CLOSET	PR 3'-0"	6'-8"	1 3/4"	H	2		2/A7.2	T-04A	WDSR	TDO			WD	PAINT	
107e	WORK ROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-30	WDSR	TDO			HM	PAINT	
110	MAINTENANCE ROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
111	LINEN	3'-0"	7'-0"	1 3/4"	B	2		3/A7.2	T17	WDSR	TDO			HM	PAINT	
112a	HOUSE LAUNDRY	4'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
112b	HOUSE LAUNDRY	2'-4"	6-8"	1 3/4"	B	2		2/A7.2	T-35	HMF	TDO			HM	PAINT	
113	HEAD HSKP OFC	3'-0"	7'-0"	1 3/4"	B	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
114	EMPLOYEE TOILET	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-23	WDSR	TDO			HM	PAINT	
116a	ELECTRICAL ROOM	4'-0"	7'-0"	1 3/4"	C	2		8/A7.3	T-19	HMF	TDO			HM	PAINT	
116b	ELECTRICAL ROOM	4'-0"	7'-0"	1 3/4"	B	2		2/A7.3	T-16	HMF	TDO			HM	PAINT	
117	CHUTE ROOM	3'-0"	6-8"	1 3/4"	B	2	90 MIN	1/A7.2	T-35	HMF	TDO			HM	PAINT	
118	ELEVATOR LOBBY	3'-0"	7'-0"	1 3/4"	J	4		7/A7.3	T-13	GL/AL	ANNO		TEMP	AL	ANNO	
121	WOMEN	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-23	WDSR	TDO			HM	PAINT	
122	MEN	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-23	WDSR	TDO			HM	PAINT	
123	FITNESS ROOM	3'-0"	7'-0"	1 3/4"	J	4		4/A7.2	T-24	GL/AL	ANNO		TEMP	AL	ANNO	
124	MECH ROOM	4'-0"	6'-8"	1 3/4"	C	2		2/A7.2	T-04A	WDSR	TDO			HM	PAINT	
125	STORAGE (FITNESS)	2'-6"	6'-8"	1 3/4"	C	2		2/A7.2	T-04A	WDSR	TDO			HM	PAINT	3 SETS
126	COMMUNITY	3'-0"	7'-0"	1 3/4"	J	6		7/A7.3	T-13	GL/AL	ANNO		TEMP	AL	ANNO	
127a	FLEX	PR 3'-0"	7'-0"	1 3/4"	J	5		7/A7.3	T-13	GL/AL	ANNO		TEMP	AL	ANNO	
127b	FLEX	3'-2"	8'-6"	1 3/4"	G				T-34	WDSR	TDO			WD	PAINT	CUSTOM BARN DOOR SLIDER
127c	FLEX	3'-2"	8'-6"	1 3/4"	G				T-34	WDSR	TDO			WD	PAINT	CUSTOM BARN DOOR SLIDER
128	BUFFET	5'-7"	6'-8"	1 3/4"	K				T-34B	WDSR	TDO			WD	PAINT	CUSTOM BARN DOOR SLIDER
129a	FOOD PREP	3'-0"	7'-0"	1 3/4"	B	2		8/A7.3	T-19	HMF	PAINT			HM	PAINT	
129b	FOOD PREP	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
130a	MECHANICAL ROOM	3'-0"	7'-0"	1 3/4"	B	2		8/A7.3	T19A	HMF	PAINT			HM	PAINT	
130b	MECHANICAL ROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
131	PBX	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
132	GUEST LAUNDRY	3'-0"	7'-0"	1 3/4"	D	2		2/A7.2	T-24	WDF	TDO			HM	PAINT	
133	MECHANICAL ROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-31	WDSR	TDO			HM	PAINT	
135	WOMEN	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-23	WDSR	TDO			HM	PAINT	
136	MEN	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-23	WDSR	TDO			HM	PAINT	
137	MECH ROOM	3'-0"	7'-0"	1 3/4"	B	2		3/A7.2	T19A	WDSR	TDO			HM	PAINT	
138a	PRE-FUNCTION AREA	3'-0"& 1'-4"	7'-0"	1 3/4"	M	2		4/A7.2	T-42	GL/AL	ANNO		TEMP	AL	ANNO	
138b	PRE-FUNCTION AREA	PR 3'-0"	7'-0"	1 3/4"	J	1		4/A7.2	T-43	GL/AL	ANNO		TEMP	AL	ANNO	
138c	PRE-FUNCTION AREA	PR 3'-0"	7'-0"	1 3/4"	J	1		4/A7.2	T-43	GL/AL	ANNO		TEMP	AL	ANNO	
139	FUNCTION STORAGE	3'-0"	7'-0"	1 3/4"	B	2		3/A7.2	T-17	WDSR	TDO			HM	PAINT	
140a	FUNCTION ROOM	PR 3'-0"	7'-0"	1 3/4"	E	1		7/A7.3	T-13	GL/AL	ANNO		TEMP	AL	ANNO	
140b	FUNCTION ROOM	PR 3'-0"	7'-0"	1 3/4"	E	1		7/A7.3	T-13	GL/AL	ANNO		TEMP	AL	ANNO	
P01	POOL STORAGE	3'-0"	7'-0"	1 3/4"	C	3		10/A7.3	T-12	HMF	TDO			HM	PAINT	
P02	POOL EQUIPMENT	3'-0"	7'-0"	1 3/4"	C	3		10/A7.3	T-12	HMF	TDO			HM	PAINT	
D1	DUMPSTER	(2) 6'-2	6'-4							STL	PAINTED					REF TO A5.3
D2	DUMPSTER STORAGE	3'-0"	7'-0"	1 3/4"	B	3		10/A7.3	H-18	HM	PAINTED			HM	PAINT	
TYPICAL 2ND; 3RD; 4TH & 5TH FLOORS																
202 - 502	LINEN ROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-16	WDSR	TDO			HM	PAINT	PROVIDE KEY CARD ACCESS LOCK
204 -504	STORAGE	3'-0"	7'-0"	1 3/4"	C	2	45 MIN	1/A7.2	T-17	WDSR	TDO			HM	PAINT	
205 -505	ELECTRICAL ROOM	3'-0"	7'-0"	1 3/4"	C	2	45 MIN	1/A7.2	T-16	WDSR	TDO			HM	PAINT	
207 - 507	STORAGE	3'-0"	7'-0"	1 3/4"	C	2	45 MIN	1/A7.2	T-17	WDSR	TDO			HM	PAINT	
GUEST ROOM UNITS																
GR-1	FOYER	3'-0"	7'-0"	1 3/4"	C	2	20 MIN	1/A7.2	T-01	WDSR	TDO			HM	PAINT	
GR-1A	FOYER (ADA)	3'-0"	7'-0"	1 3/4"	C	2	20 MIN	1/A7.2	T-01A	WDSR	TDO			HM	PAINT	
GR-2	BATH	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-02	WDSR	TDO			HM	PAINT	
GR-2A	BATH (ADA)	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-02A	WDSR	TDO			HM	PAINT	
GR-3	CLOSET	PR 1'-10"	7'-0"	1 3/4"	H	2		2/A7.2	T-04A	WDSR	TDO			WD	PAINT	
GR-3A	CLOSET	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-02A	WDSR	TDO			HM	PAINT	
GR-4	BEDROOM	3'-0"	7'-0"	1 3/4"	C	2		2/A7.2	T-03	HCW	TDO			HM	PAINT	
GR-5	LOCKOUT	3'-0"	7'-0"	1 3/4"	C	2	20 MIN	1/A7.2	T-01F	WDSR	TDO			HM	PAINT	

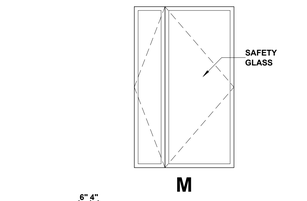
DOOR MATERIAL ABBREVIATIONS LEGEND

HMF	HOLLOW METAL, FLUSH PANEL
WDF	WOOD, FLUSH PANEL, SOLID CORE INCLUDES PARTICLEBOARD CORE, WOOD VENEER FACE, PLASTIC LAMINATE FACE, THERMALLY-FUSED FACE (MELAMINE, OPTIONAL) AND VINYL-ACRYLIC FACE
WDSR	STILE AND RAIL WOOD, WOOD VENEER FACE UNLESS NOTED OTHERWISE
WDMC	MOLDED WOOD FIBER COMPOSITE, PARTICLEBOARD CORE
ALUM	ALUMINUM STILE AND RAIL (STOREFRONT), MEDIUM STILE, FULLY GLAZED



1 A7.1 **DOOR FRAME ELEVATION**

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



2 A7.1 **DOOR ELEVATIONS**

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

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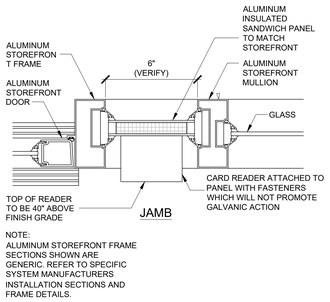
OF

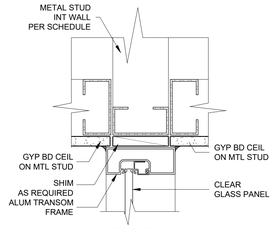
INTERIOR DOOR DETAILS

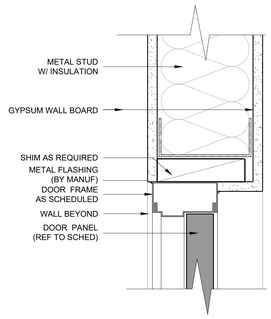


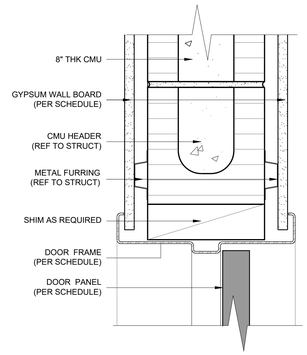
NOTE:
ALUMINUM STOREFRONT FRAME SECTIONS SHOWN ARE GENERIC. REFER TO SPECIFIC SYSTEM MANUFACTURERS INSTALLATION SECTIONS AND FRAME DETAILS.

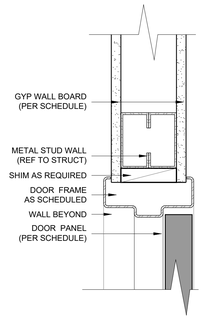
CARD READER @ STOREFRONT DOORS

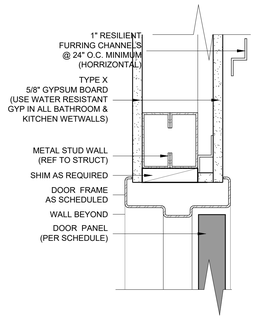
6 / A7.2 SCALE: 3" = 1'-0"

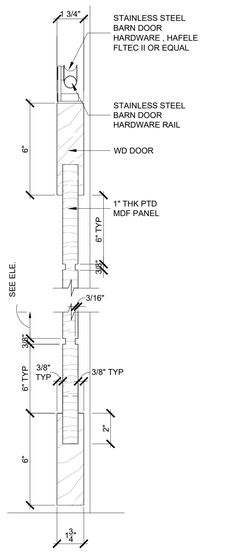






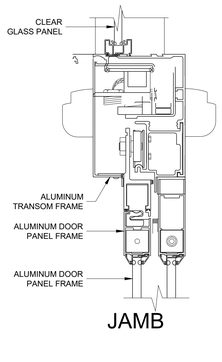


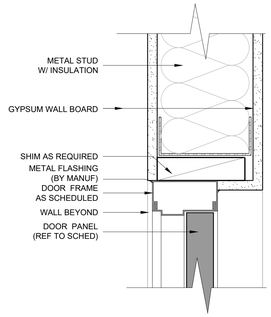


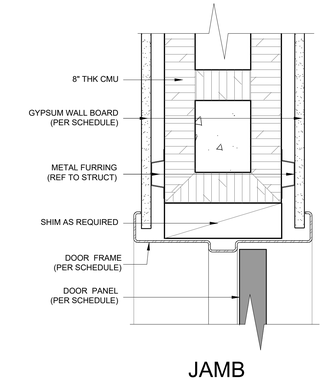


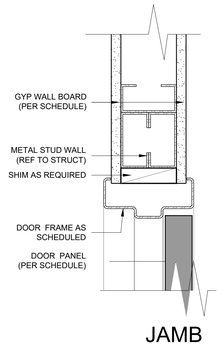
TYPE - G BARN DOOR DETAIL

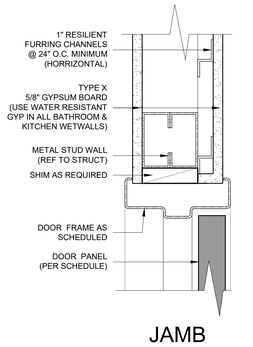
7 / A7.2 SCALE: 3" = 1'-0"

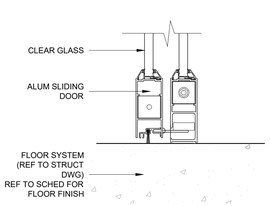


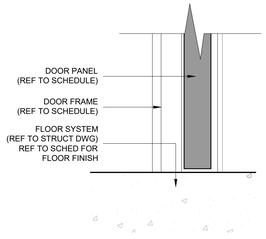


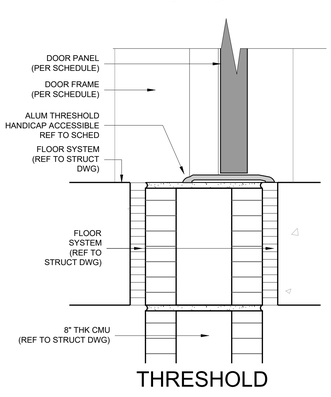


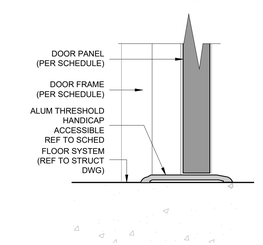


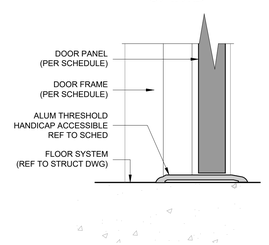












FRAME WALL DOOR DETAILS

5 / A7.2 SCALE: 3" = 1'-0"

FRAME WALL DOOR DETAILS

4 / A7.2 SCALE: 3" = 1'-0"

CMU WALL DOOR DETAILS

3 / A7.2 SCALE: 3" = 1'-0"

FRAME WALL DOOR DETAILS

2 / A7.2 SCALE: 3" = 1'-0"

FRAME WALL DOOR DETAILS

1 / A7.2 SCALE: 3" = 1'-0"

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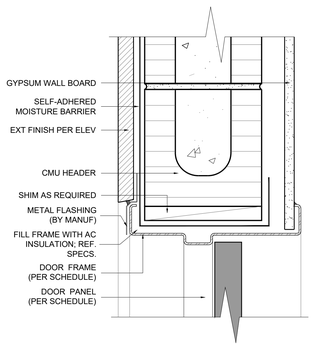
EXTERIOR DOOR DETAILS



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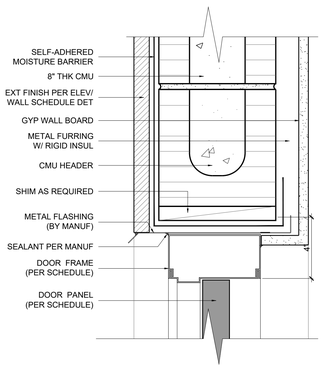

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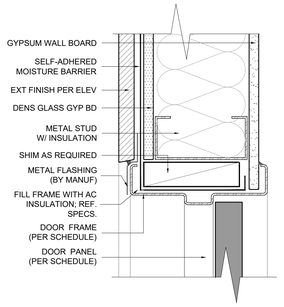

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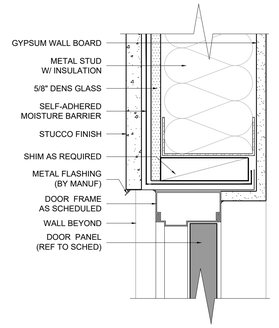

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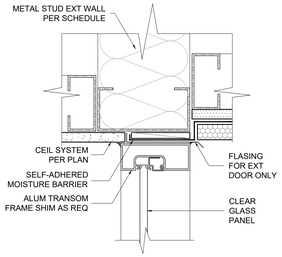

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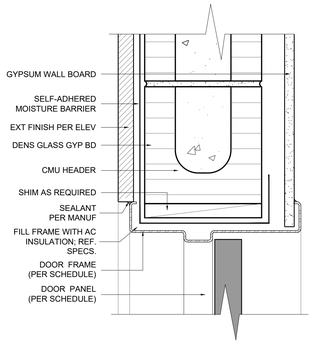

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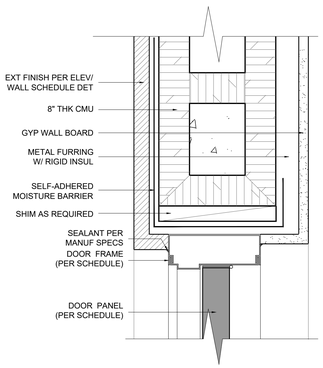

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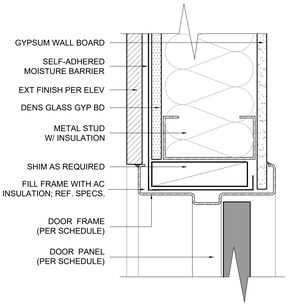

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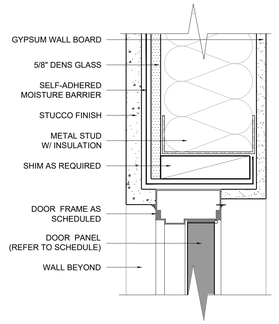

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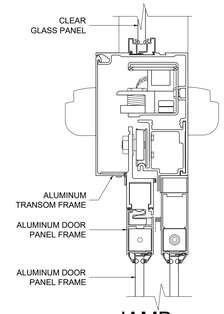

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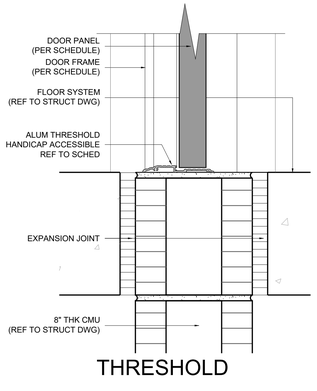

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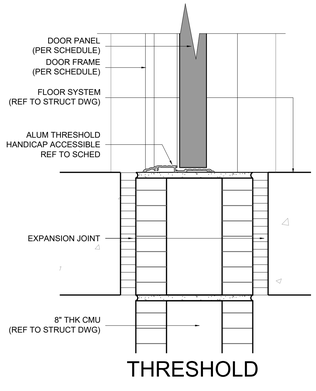

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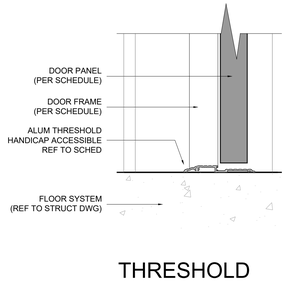

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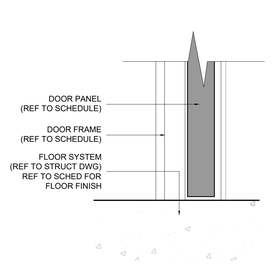

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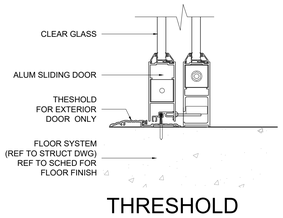

THRESHOLD

10 A7.3 CMU WALL DOOR DETAILS
SCALE: 3" = 1'-0"

9 A7.3 CMU WALL DOOR DETAILS
SCALE: 3" = 1'-0"

8 A7.3 FRAME WALL DOOR DETAILS
SCALE: 3" = 1'-0"

7 A7.3 FRAME WALL DOOR DETAILS
SCALE: 3" = 1'-0"

6 A7.3 FRAME WALL DOOR DETAILS
SCALE: 3" = 1'-0"

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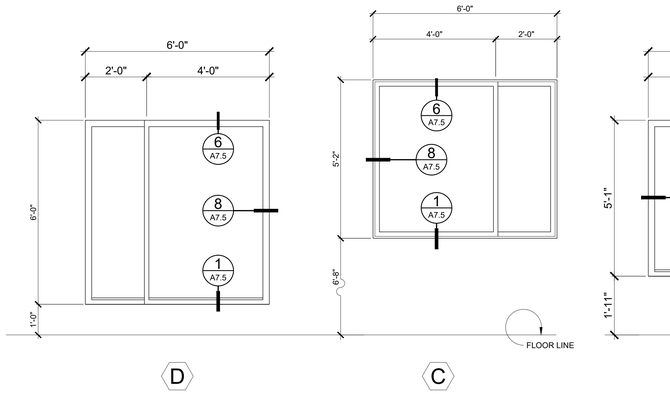

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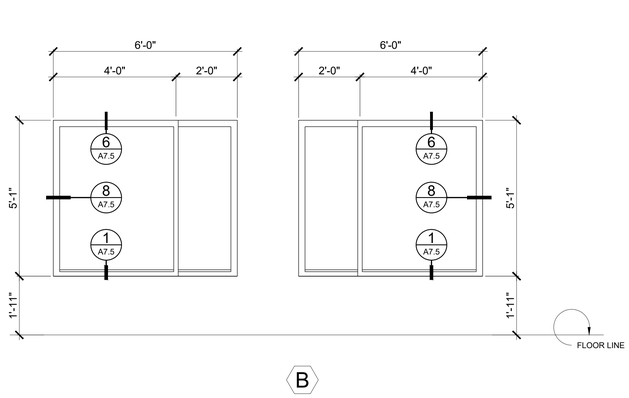

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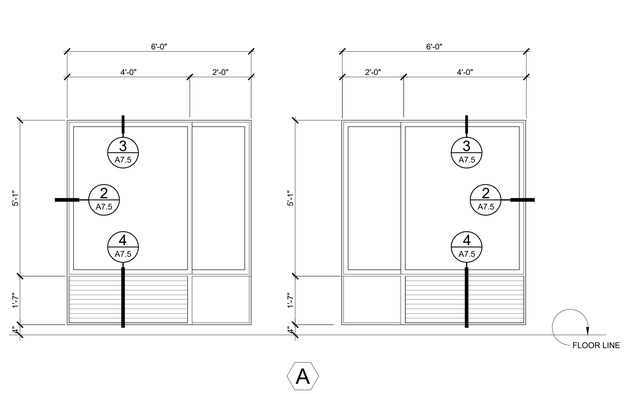
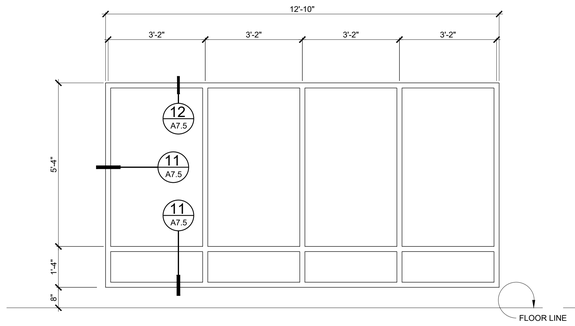


A

NOTES

1. ALUMINUM WINDOWS AND STOREFRONT SYSTEM TO BE THERMALLY BROKEN FRAME AND INSULATED GLAZING
2. GUESTROOM ALUMINUM FIXED WINDOW TO BE THERMALLY BROKEN FRAME, INSULATED GLAZING WITH INTEGRAL ALUMINUM LOUVER AT PTAC UNITS
3. ALL ALUMINUM PTAC LOUVER - COLOR TO MATCH ADJACENT MATERIAL



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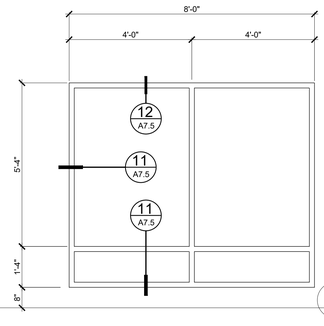

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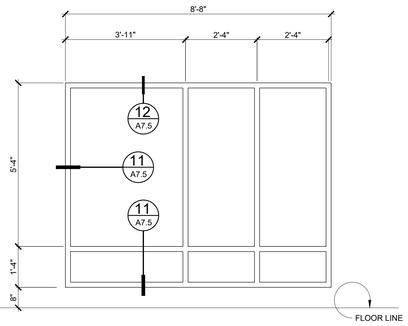

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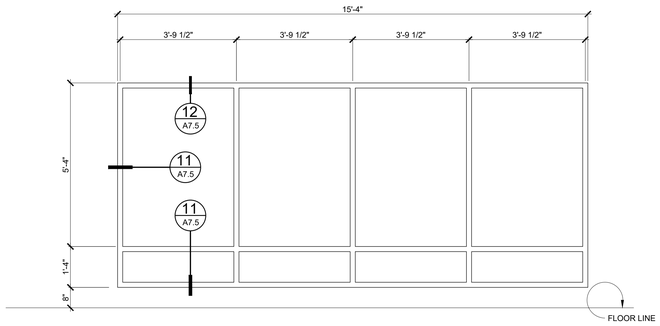

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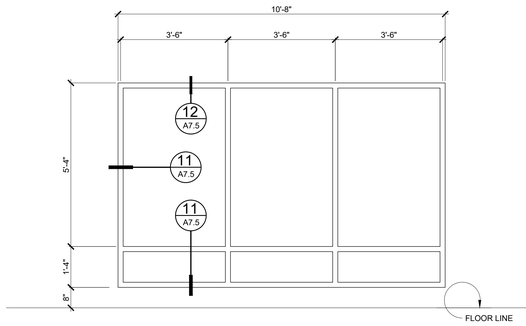

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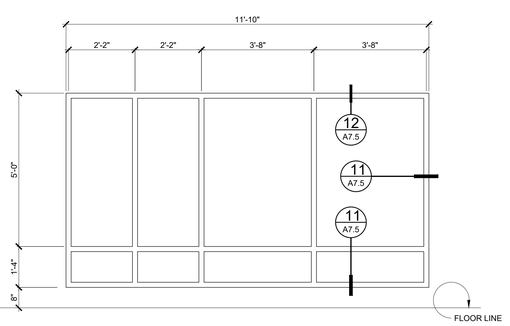

H

A A7.4 WINDOW SCHEDULE

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

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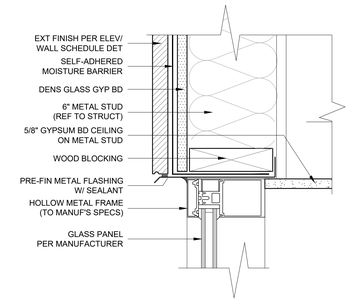
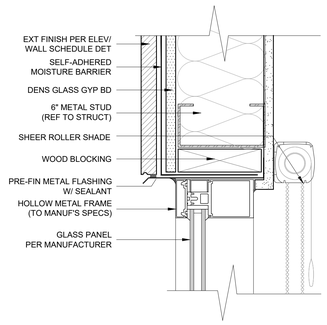
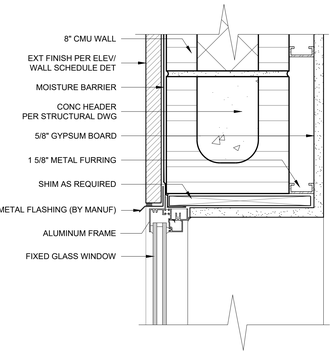


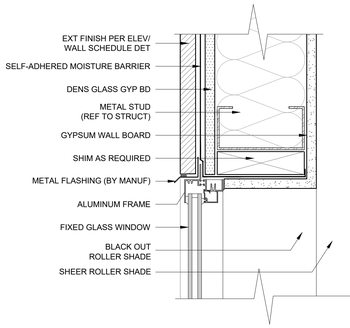
12 A7.5 HEAD WINDOW DETAIL
SCALE: 3" = 1'-0"



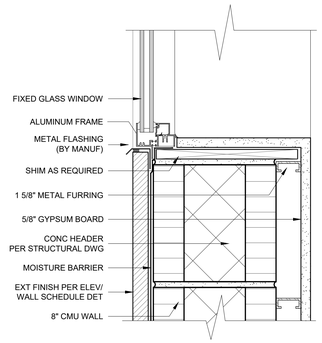
9 A7.5 HEAD WINDOW DETAIL
SCALE: 3" = 1'-0"



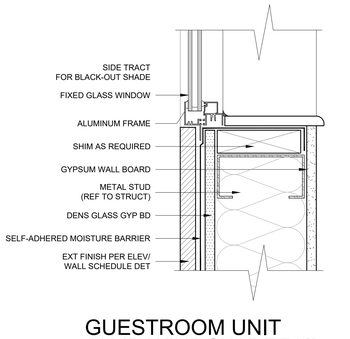
6 A7.5 HEAD WINDOW DETAIL
SCALE: 3" = 1'-0"



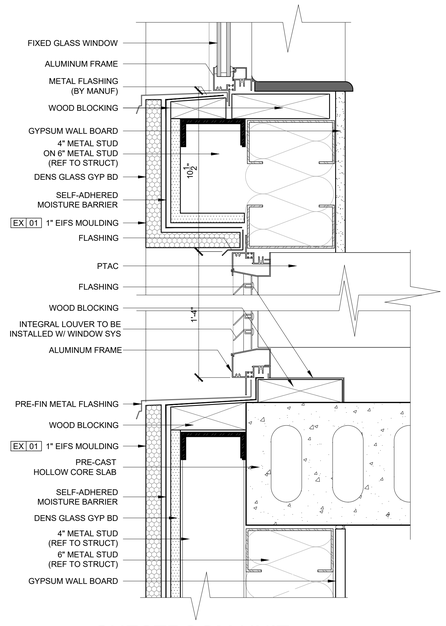
3 A7.5 GUESTROOM UNIT
HEAD WINDOW DETAIL
SCALE: 3" = 1'-0"



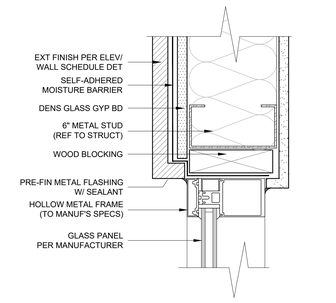
5 A7.5 SILL / JAMB WINDOW DETAIL
SCALE: 3" = 1'-0"



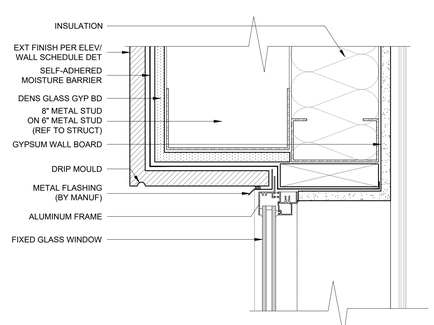
2 A7.5 GUESTROOM UNIT
JAMB WINDOW DETAIL
SCALE: 3" = 1'-0"



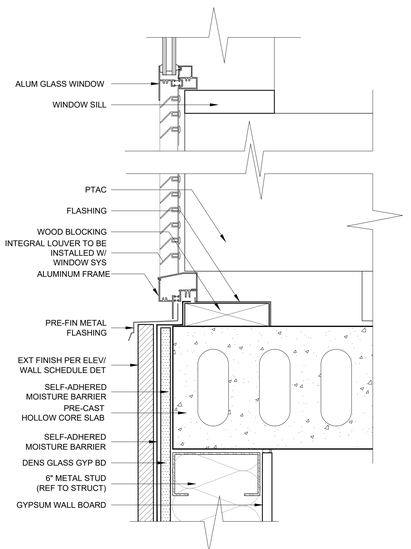
14 A7.5 GUESTROOM UNIT
SILL WINDOW W/ PTACKDETAIL
SCALE: 3" = 1'-0"



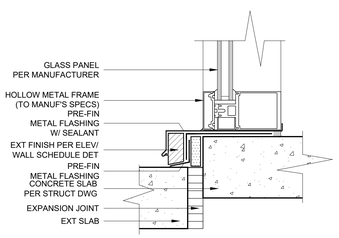
11 A7.5 JAMB/SILL WINDOW DETAIL
SCALE: 3" = 1'-0"



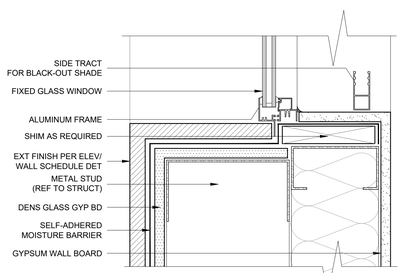
8 A7.5 GUESTROOM UNIT
HEAD WINDOW DETAIL
SCALE: 3" = 1'-0"



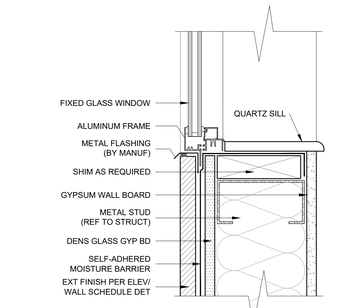
4 A7.5 GUESTROOM UNIT
SILL WINDOW W/ PTACKDETAIL
SCALE: 3" = 1'-0"



10 A7.5 SILL WINDOW DETAIL
SCALE: 3" = 1'-0"



7 A7.5 GUESTROOM UNIT
SILL / JAMB WINDOW DETAIL
SCALE: 3" = 1'-0"



1 A7.5 GUESTROOM UNIT
SILL WINDOW DETAIL
SCALE: 3" = 1'-0"

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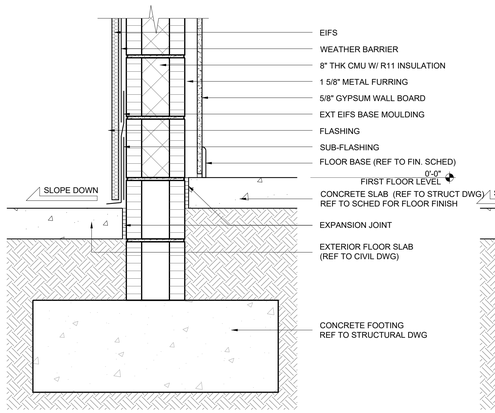
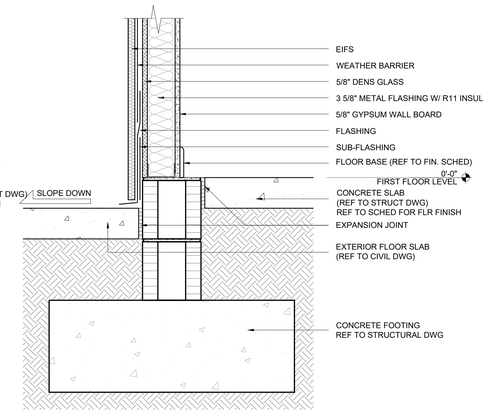
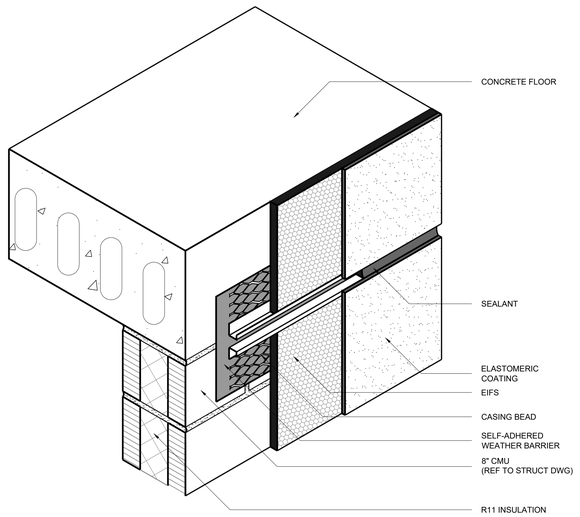


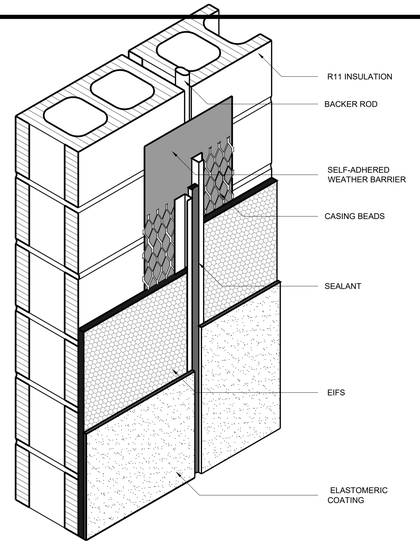
D2 A8.1 FOOTING DETAIL
SCALE: 1 1/2" = 1'-0"



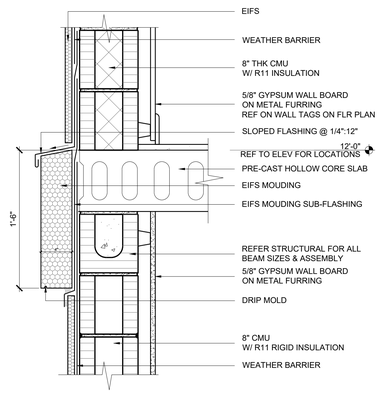
D1 A8.1 FOOTING DETAIL
SCALE: 1 1/2" = 1'-0"



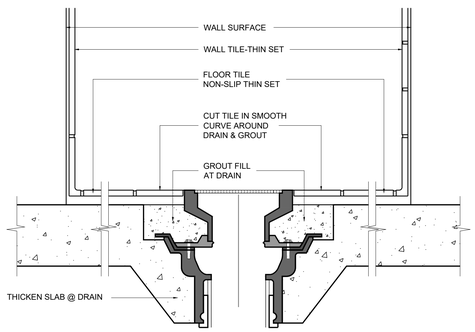
D4 A8.1 TYPICAL
VERTICAL JOINT/GROOVE DETAIL
SCALE: 1 1/2" = 1'-0"



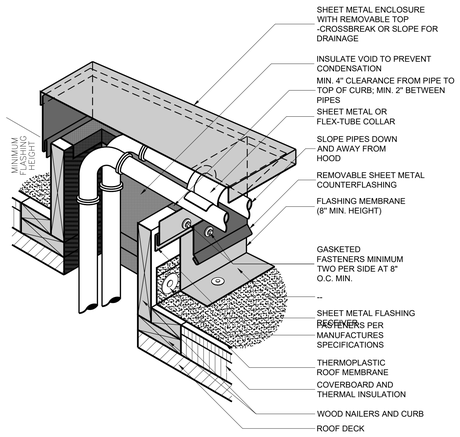
D3 A8.1 TYPICAL
VERTICAL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



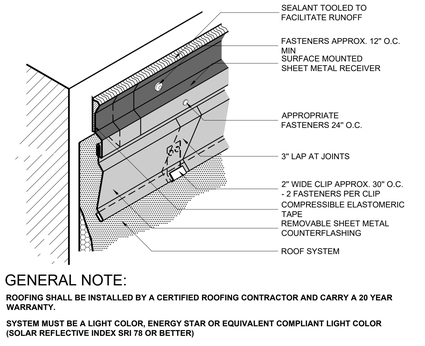
D5 A8.1 WALL
EIFS MOULDING DETAIL
SCALE: 1 1/2" = 1'-0"



D6 A8.3 TYPICAL
FLOOR DRAINAGE DETAIL
SCALE: 3" = 1'-0"



D9 A8.1 PIPE PENETRATION DETAIL
SCALE: NTS" = 1'-0"

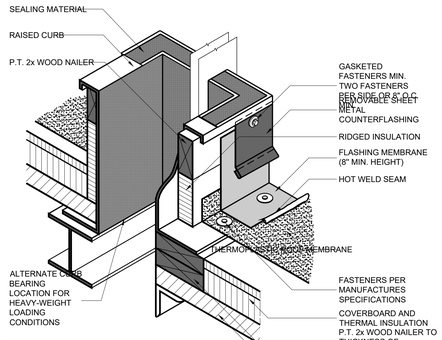


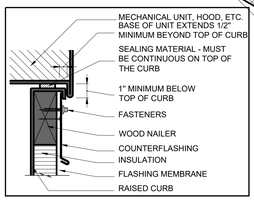
GENERAL NOTE:

ROOFING SHALL BE INSTALLED BY A CERTIFIED ROOFING CONTRACTOR AND CARRY A 20 YEAR WARRANTY.

SYSTEM MUST BE A LIGHT COLOR, ENERGY STAR OR EQUIVALENT COMPLIANT LIGHT COLOR (SOLAR REFLECTIVE INDEX SRI 78 OR BETTER)

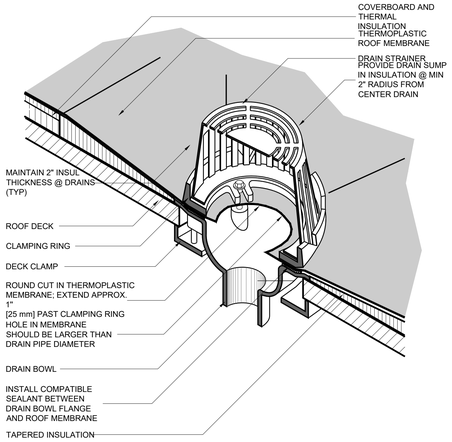
D8 A8.1 MOUNTED RIGLET
COUNTER FLASHING DETAIL
SCALE: NTS" = 1'-0"





1. THE CURBS, TOP WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
2. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.

D7 A8.1 ROOF CURB DETAIL
SCALE: NTS" = 1'-0"



NOTES:

OVERFLOW DRAINS MUST BE 2" HIGHER THAN ROOF DRAIN LEVEL.

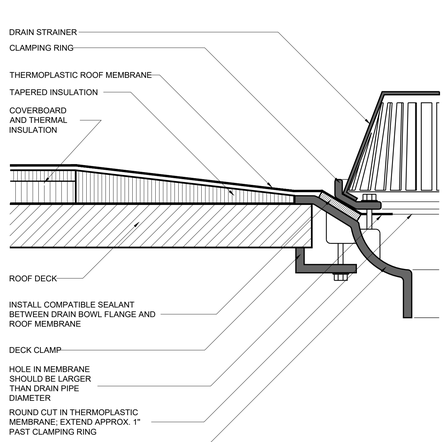
THE USE OF A METAL DECK SUMP PAN IS NOT RECOMMENDED. HOWEVER, DRAIN RECEIVER/BEARING PLATES ARE APPLICABLE WITH SOME PROJECTS.

THE DRAIN COMPONENTS BELOW THE DECK SHALL BE INSULATED 6' FROM DRAIN MIN. TO PREVENT POTENTIAL CONDENSATION.

MEMBRANE SEAMS SHOULD NOT INTERSECT DRAIN CLAMPING RING.

PROVIDE OVERFLOW DRAINS @ MAX 4" PRIMARY INTERNAL DRAINS (TYP)

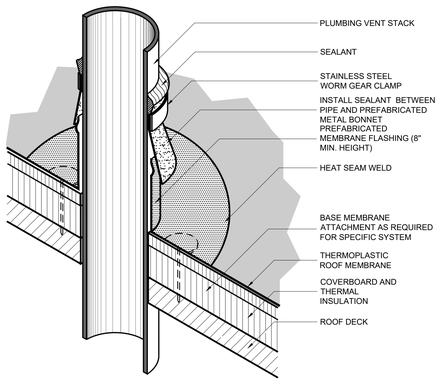
D14 A8.1 TYP OVERFLOW
ROOF DRAIN DETAIL
SCALE: NTS" = 1'-0"



NOTES:

1. THE USE OF A METAL DECK SUMP PAN IS NOT RECOMMENDED. HOWEVER, DRAIN RECEIVER/BEARING PLATES ARE APPLICABLE WITH SOME PROJECTS.
2. THE DRAIN COMPONENTS BELOW THE DECK SHALL BE INSULATED 6' FROM DRAIN MIN. TO PREVENT POTENTIAL CONDENSATION.
3. MEMBRANE SEAMS SHOULD NOT INTERSECT DRAIN CLAMPING RING.

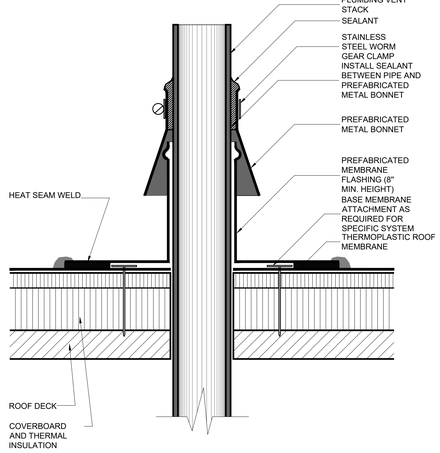
D13 A8.1 TYP ROOF DRAIN DETAIL
SCALE: NTS" = 1'-0"



VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES [300 mm] OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

1. NRCA RECOMMENDS FLASHINGS BE 8" [200 mm] HIGH, HOWEVER, NRCA IS AWARE THAT PRE-MANUFACTURED BOOT FLASHINGS GENERALLY WILL NOT MEET THE HEIGHT REQUIREMENT.
2.

D12 A8.1 PIPE PENETRATION DETAIL
SCALE: NTS" = 1'-0"



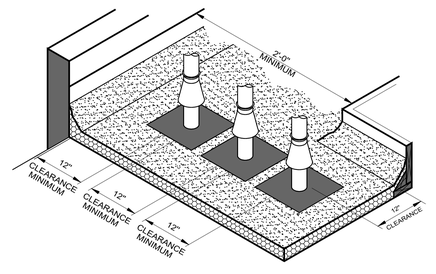
NOTES:

VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES [300 mm] OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

NRCA RECOMMENDS FLASHINGS BE 8" [200 mm] HIGH, HOWEVER, NRCA IS AWARE THAT PRE-MANUFACTURED BOOT FLASHINGS GENERALLY WILL NOT MEET THE HEIGHT REQUIREMENT.

SIMILAR DETAIL FOR MECHANICAL EQUIPMENT FRAMING SUPPORT PIPE.

D11 A8.1 PIPE PENETRATION DETAIL
SCALE: NTS" = 1'-0"



D10 A8.1 PIPES/WALLS/CURBS
CLEARANCES
SCALE: NTS" = 1'-0"

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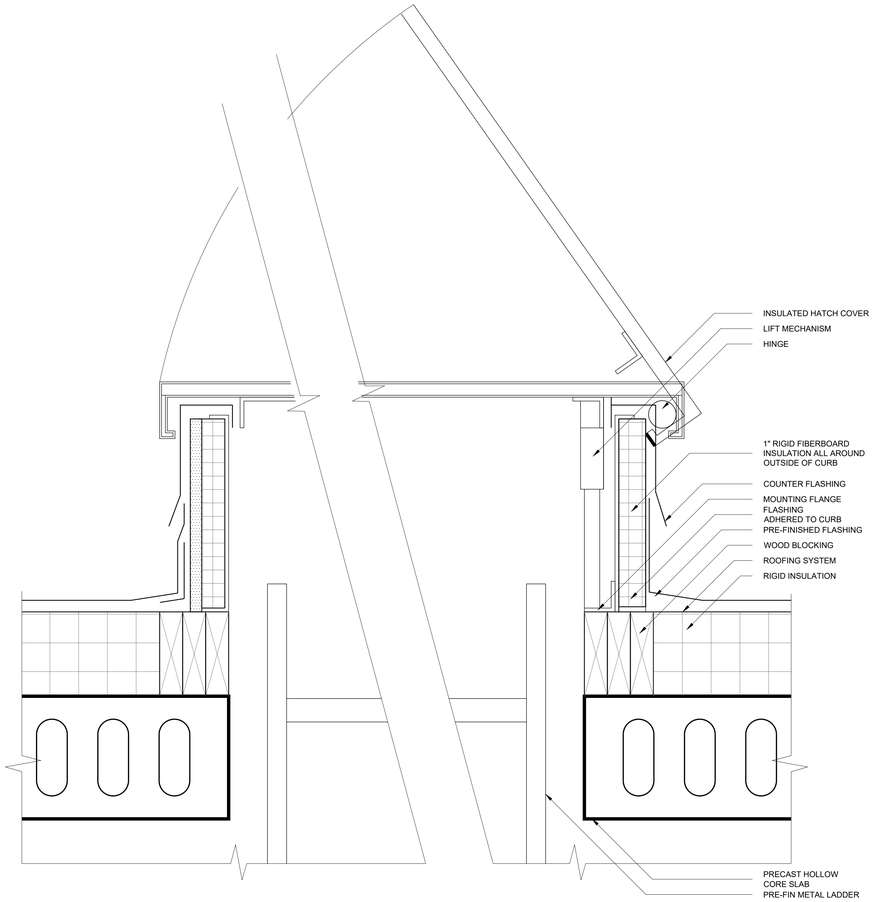
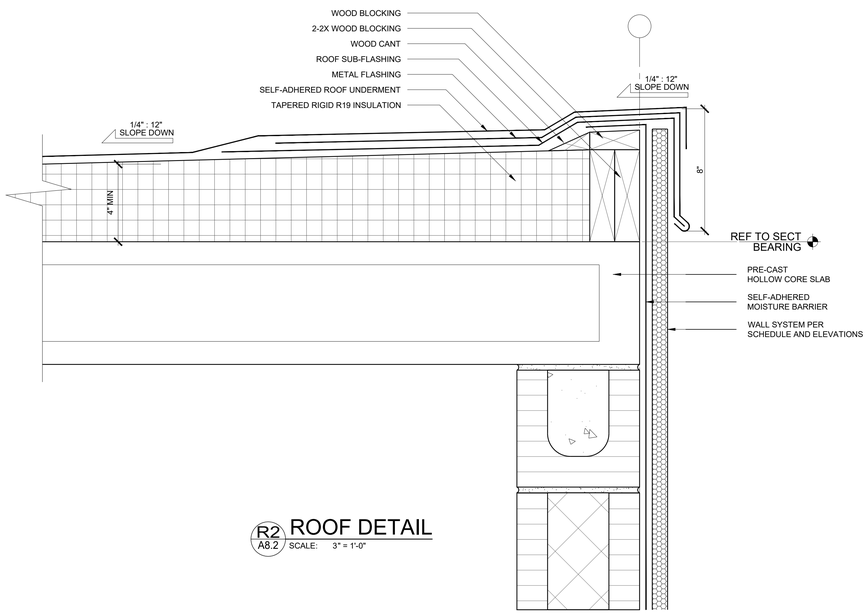
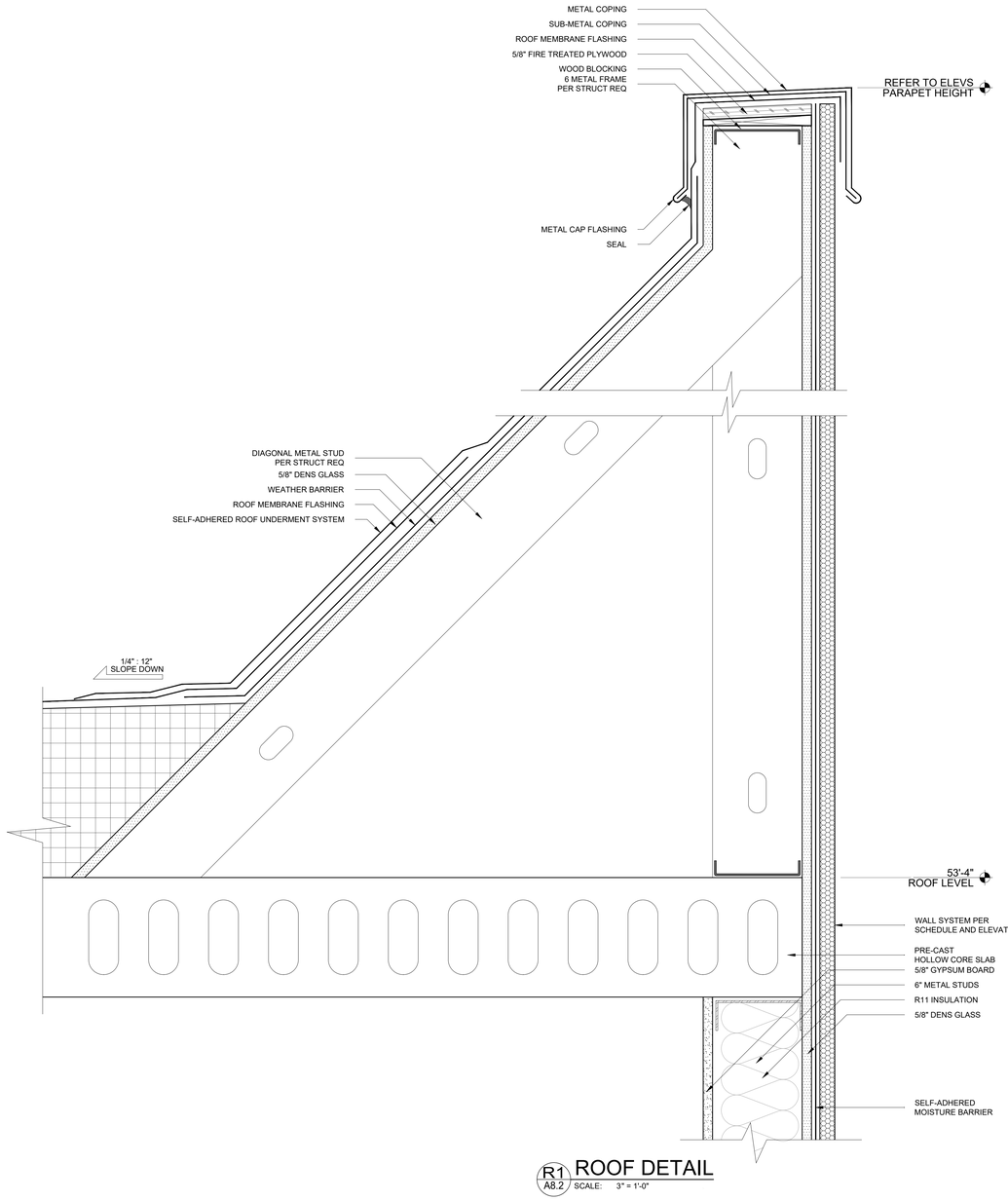


R3 A8.2 ROOF LADDER ACCESS HATCH DETAIL
SCALE: 3" = 1'-0"

R6 A8.2 ROOF LADDER ACCESS HATCH DETAIL
SCALE: 3" = 1'-0"



R2 A8.2 ROOF DETAIL
SCALE: 3" = 1'-0"



R1 A8.2 ROOF DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTE:

ROOFING SHALL BE INSTALLED BY A CERTIFIED ROOFING CONTRACTOR AND CARRY A 20 YEAR WARRANTY.

SYSTEM MUST BE A LIGHT COLOR, ENERGY STAR OR EQUIVALENT COMPLIANT LIGHT COLOR (SOLAR REFLECTIVE INDEX SRI 78 OR BETTER)

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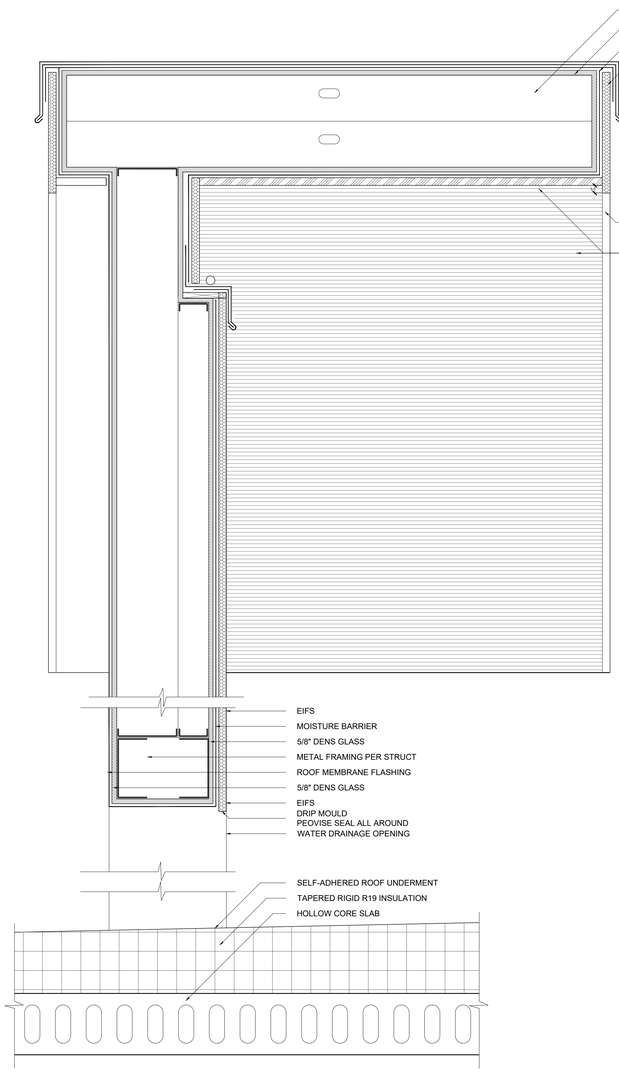
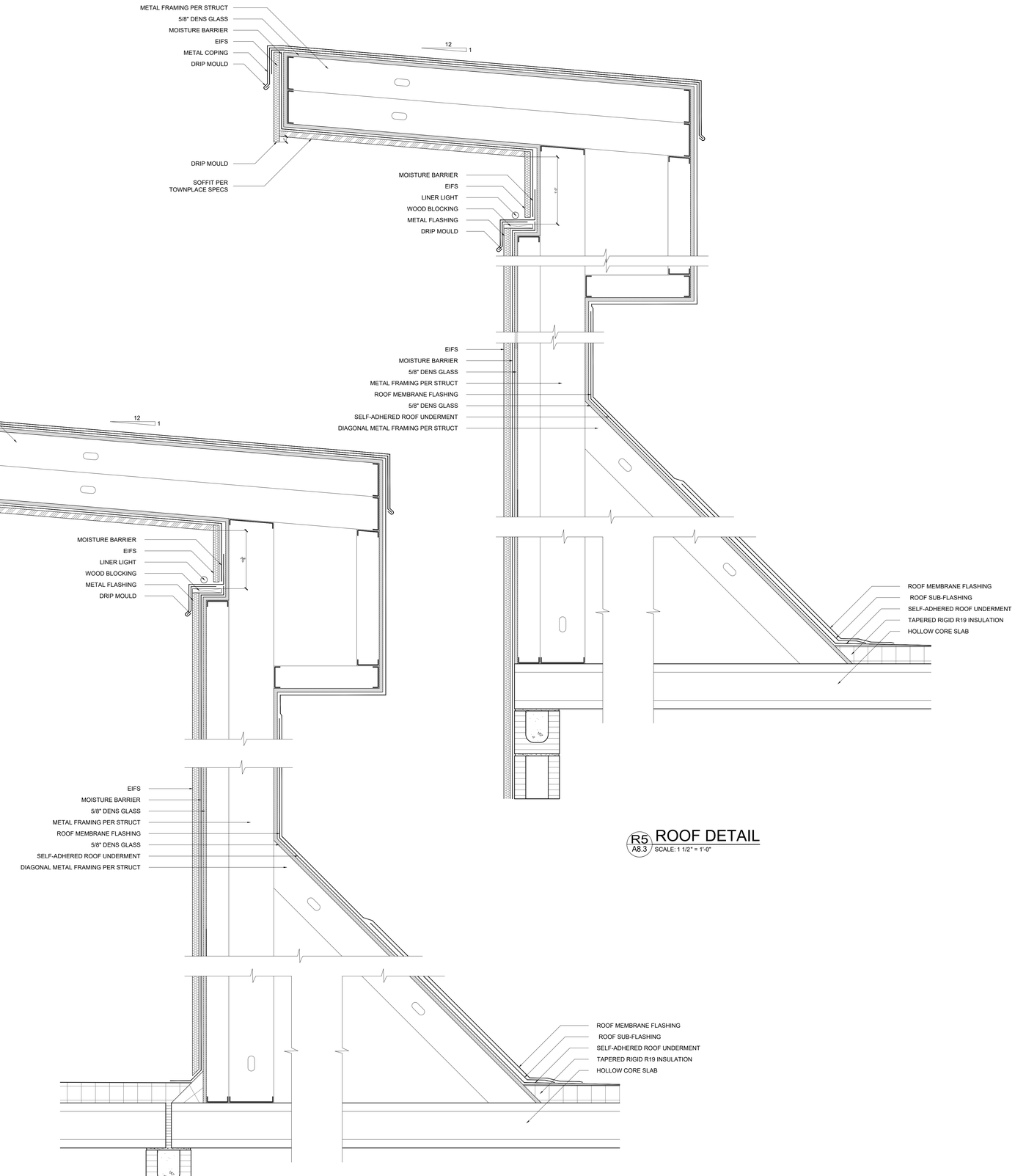
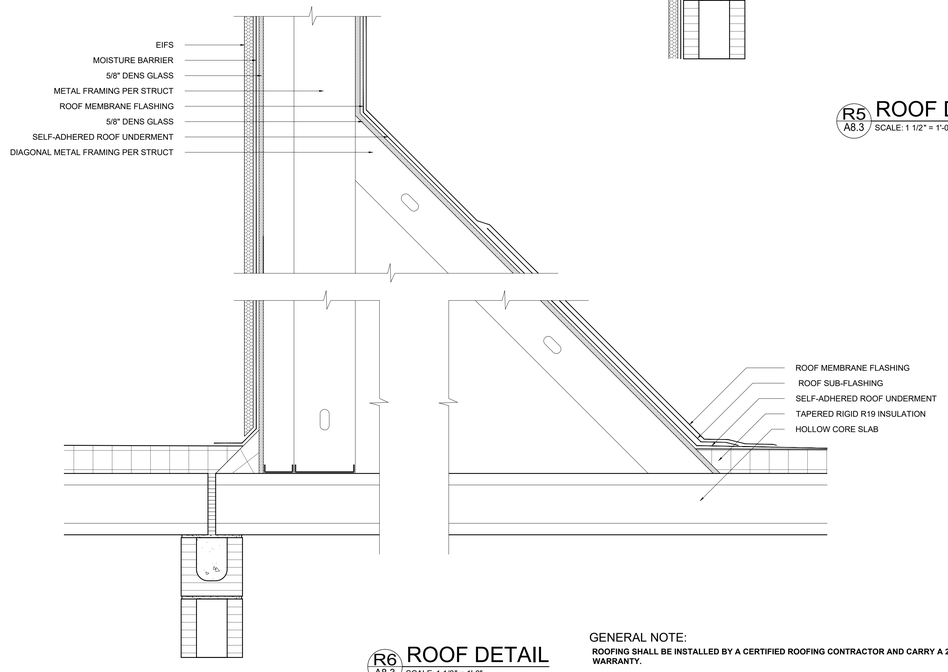


R4 A8.3 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



R5 A8.3 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



R6 A8.3 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"

R3 A8.4 ROOF DETAIL

GENERAL NOTE:

ROOFING SHALL BE INSTALLED BY A CERTIFIED ROOFING CONTRACTOR AND CARRY A 20 YEAR WARRANTY.

SYSTEM MUST BE A LIGHT COLOR, ENERGY STAR OR EQUIVALENT COMPLIANT LIGHT COLOR (SOLAR REFLECTIVE INDEX SRI 78 OR BETTER)

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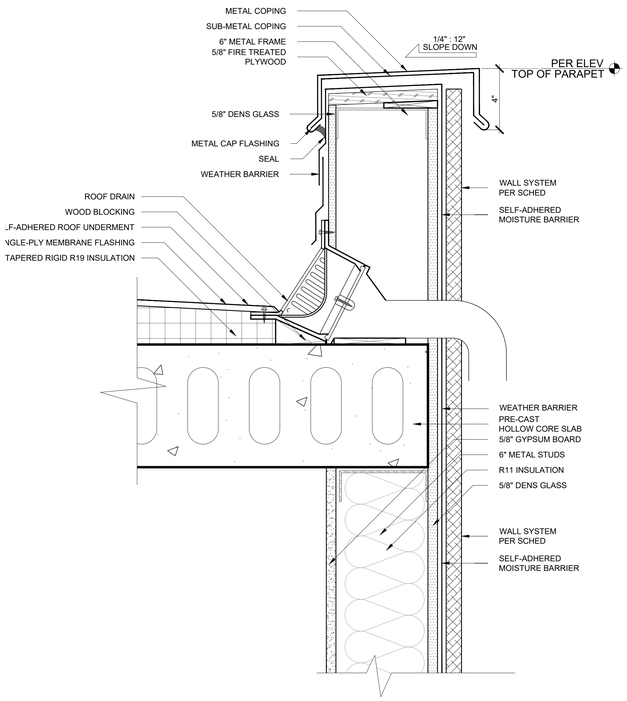
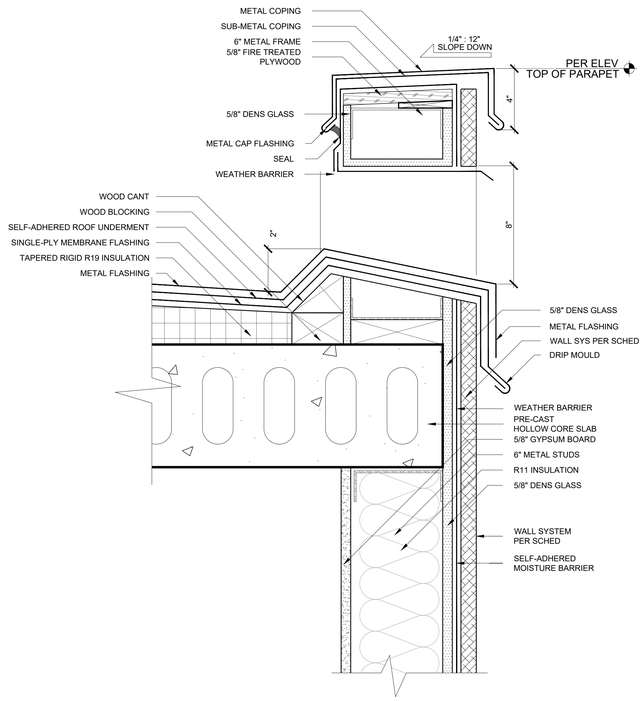
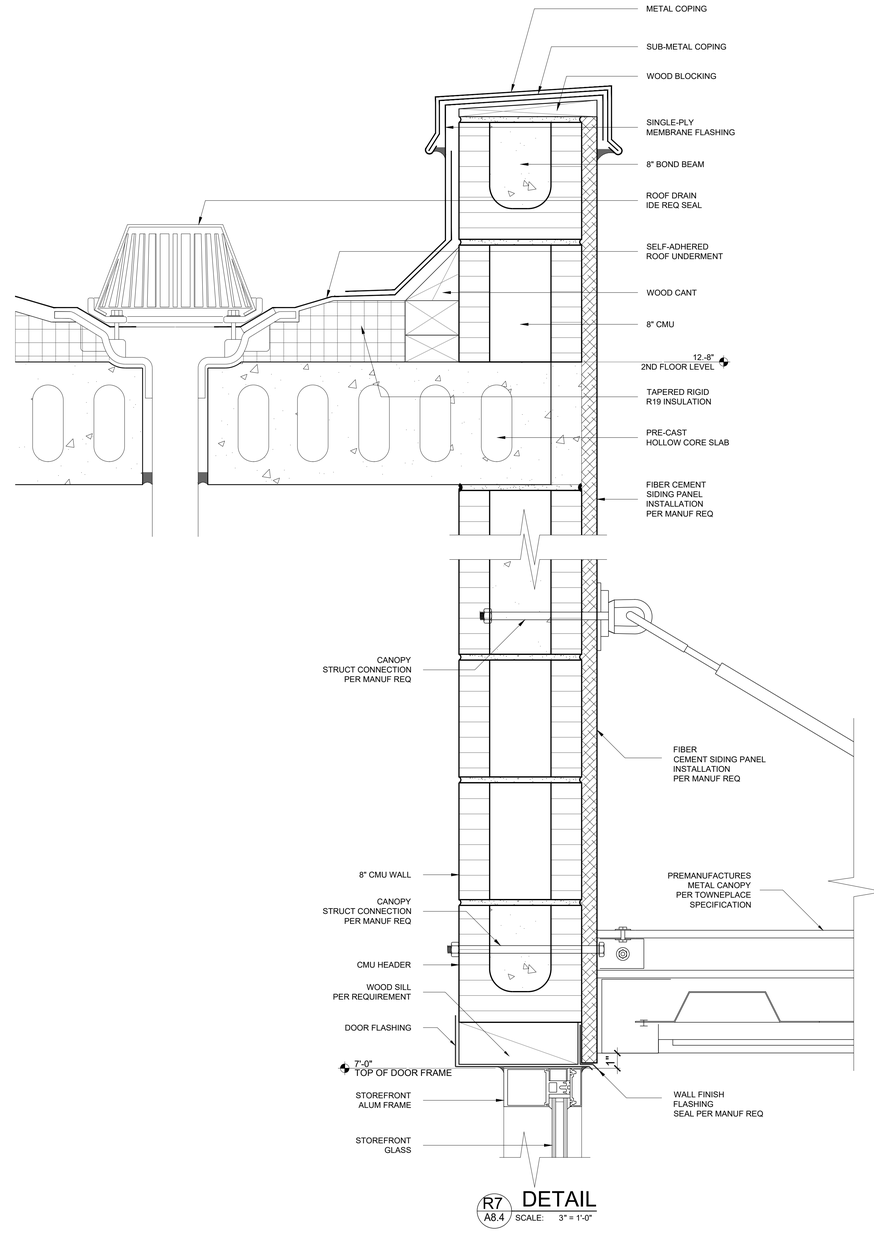


R9 A8.4 DETAIL
SCALE: 3" = 1'-0"



R8 A8.4 DETAIL
SCALE: 3" = 1'-0"



R7 A8.4 DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTE:

ROOFING SHALL BE INSTALLED BY A CERTIFIED ROOFING CONTRACTOR AND CARRY A 20 YEAR WARRANTY.

SYSTEM MUST BE A LIGHT COLOR, ENERGY STAR OR EQUIVALENT COMPLIANT LIGHT COLOR (SOLAR REFLECTIVE INDEX SRI 78 OR BETTER)

AA C000606

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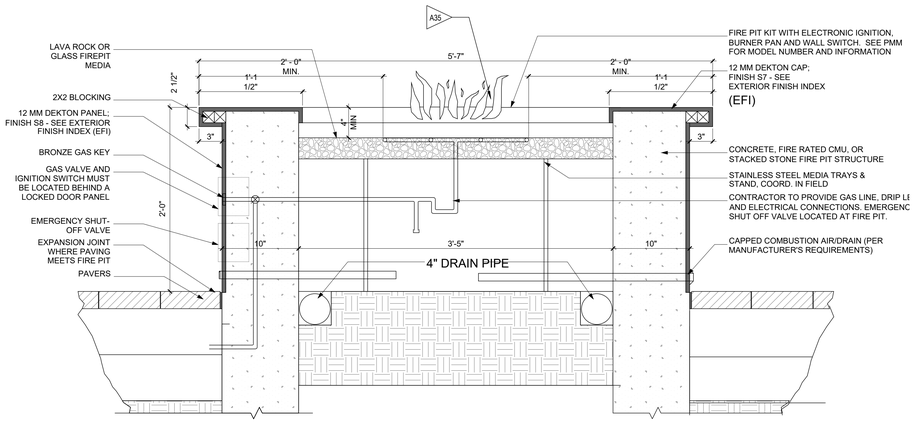
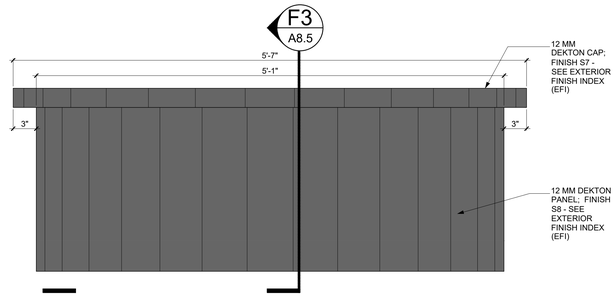
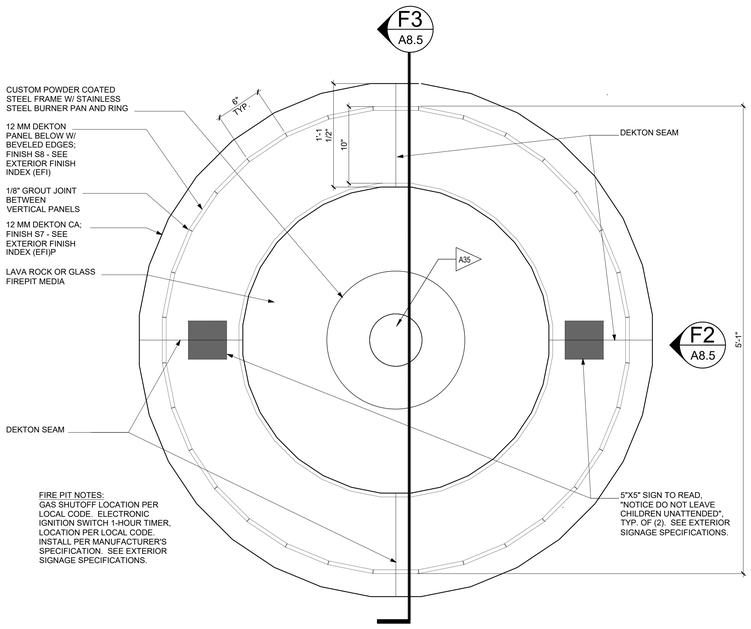


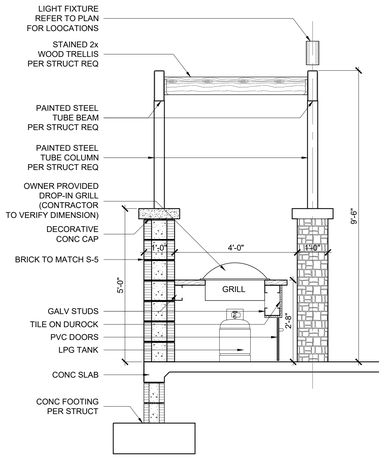
F3 A8.5 FIREPIT SECTION
SCALE: 1 1/2" = 1'-0"



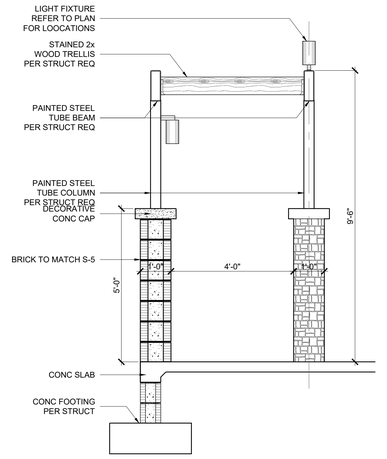
F2 A8.5 FIREPIT ELEVATION
SCALE: 1 1/2" = 1'-0"



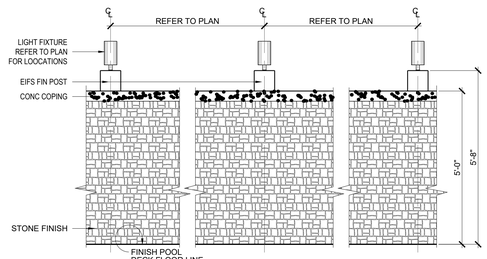
F1 A8.5 ENLARGED FIREPIT PLAN
SCALE: 1 1/2" = 1'-0"



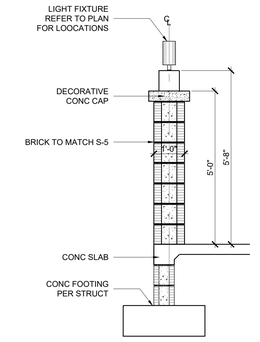
P6 A8.5 POOL TRELLIS SECTION
SCALE: 1" = 1'-0"



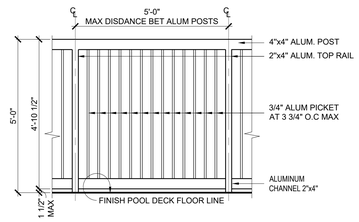
P5 A8.5 POOL TRELLIS SECTION
SCALE: 1" = 1'-0"



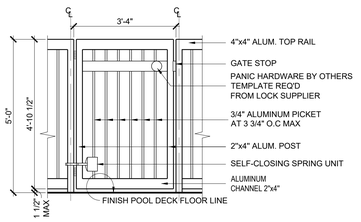
P4 A8.5 POOL FENCE
SCALE: 1" = 1'-0"



P3 A8.5 POOL FENCE
SCALE: 1" = 1'-0"



P2 A8.5 POOL FENCE
SCALE: 1/2" = 1'-0"



P1 A8.5 POOL FENCE
SCALE: 1/2" = 1'-0"

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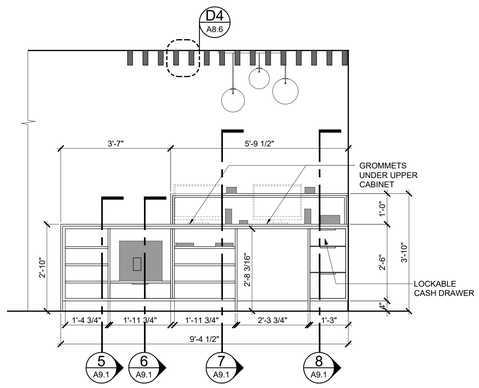
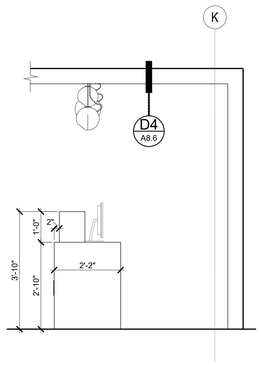
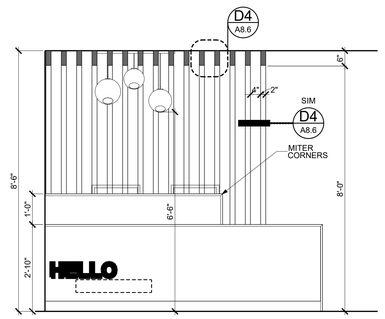


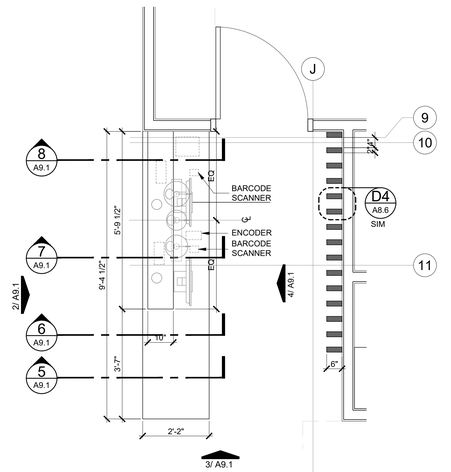
4 A9.1 WELCOME DESK ELEVATION
SCALE: 1" = 1'-0"



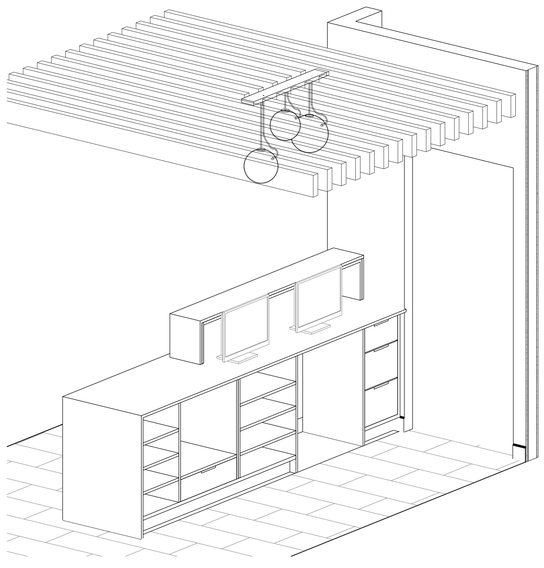
3 A9.1 WELCOME DESK ELEVATION
SCALE: 1/2" = 1'-0"



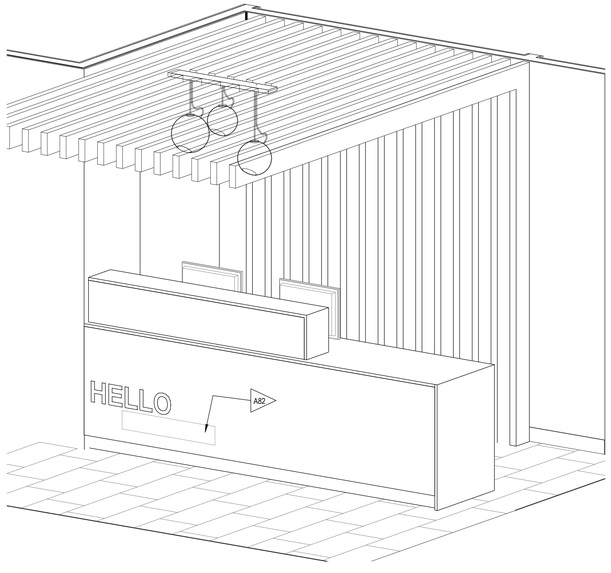
2 A9.1 WELCOME DESK ELEVATION
SCALE: 1/2" = 1'-0"



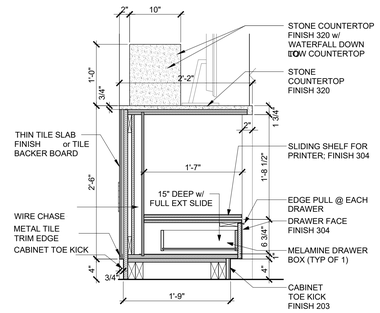
1 A9.1 WELCOME DESK PLAN
SCALE: 1/2" = 1'-0"



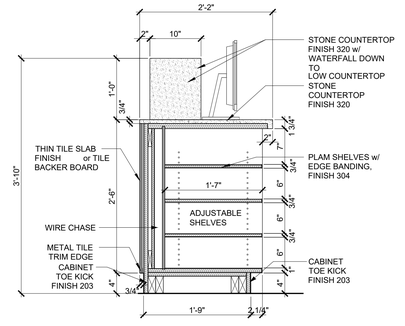
10 A6.4 WELCOME DESK - 3D VIEW
SCALE: " = 1'-0"



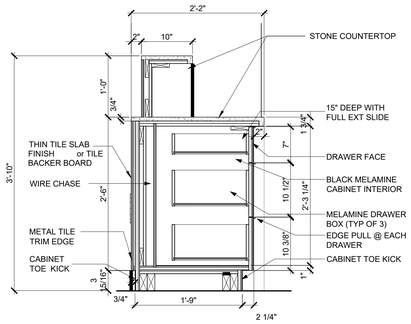
9 A6.4 WELCOME DESK - 3D VIEW
SCALE: " = 1'-0"



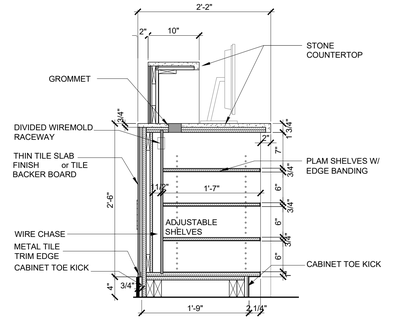
6 A9.1 WELCOME DESK
COUNTER SECTION @ DRAWERS
SCALE: 1" = 1'-0"



5 A9.1 WELCOME DESK
LOW COUNTER SECTION DETAIL
SCALE: 1" = 1'-0"



8 A9.1 WELCOME DESK
COUNTER SECTION @ DRAWERS
SCALE: 1" = 1'-0"



7 A9.1 WELCOME DESK
COUNTER SECTION @ SHELVES
SCALE: 1" = 1'-0"

NOTES

1. REFER TO TOWNEPLACE MANUAL SPECIFICATIONS AND INTERIOR DESIGN PLANS FOR FINISHES OTHER REQUIREMENTS.
2. REFER TO INTERIOR SIGNAGE SPECIFICATIONS FOR SIGN INFORMATION.
3. PROVIDE POWER/DATA OUTLET FOR PRINTER. WIRES TO RUN BETWEEN THE MILLWORK BACK PANELS.

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NOTES

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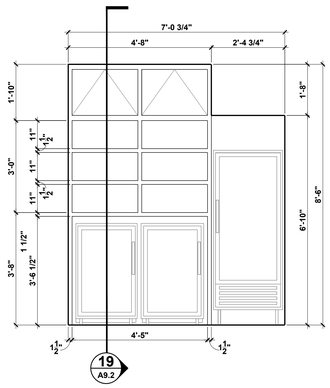
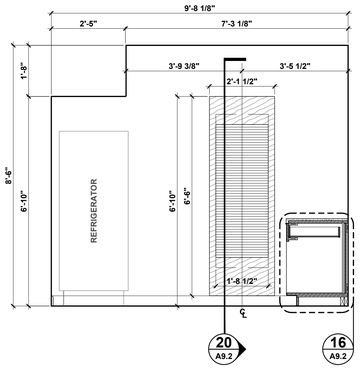
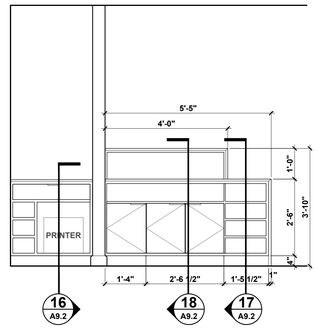


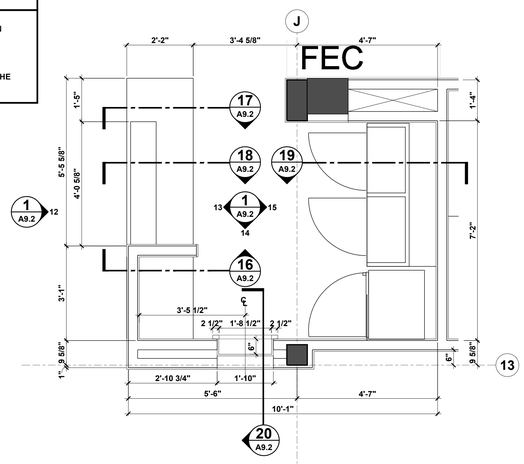
14 A9.2 **IN-A-PINCH ELEVATION**
SCALE: 1/2" = 1'-0"



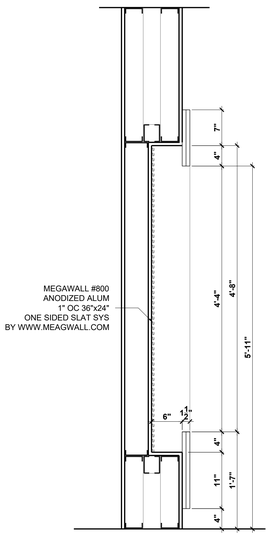
13 A9.2 **COMMUNICATION & IN-A-PINCH ELEVATION**
SCALE: 1/2" = 1'-0"



12 A9.2 **IN-A-PINCH ELEVATION**
SCALE: 1/2" = 1'-0"



11 A9.2 **IN-A-PINCH PLAN**
SCALE: 1/2" = 1'-0"

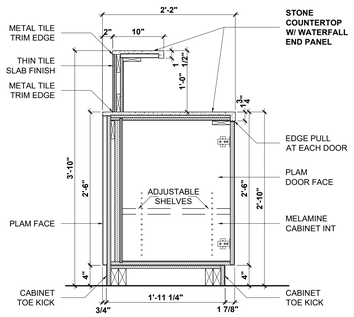


20 A9.2 **SUNDRIES SECTION**
SCALE: 1" = 1'-0"

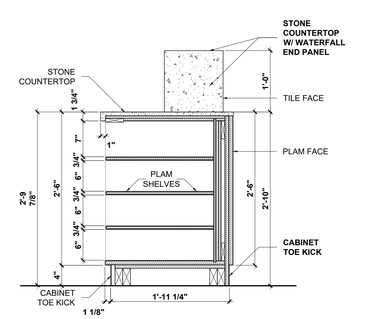
19 A9.2 **IN-A-PINCH SECTION**
SCALE: 1" = 1'-0"

16 A9.2 **COMMUNICATIONS ELEVATION**
SCALE: 1/2" = 1'-0"

15 A9.2 **IN-A-PINCH ELEVATION**
SCALE: 1/2" = 1'-0"



18 A9.2 **IN-A-PINCH SECTION**
SCALE: 1" = 1'-0"



17 A9.2 **IN-A-PINCH SECTION**
SCALE: 1" = 1'-0"

AA C000606

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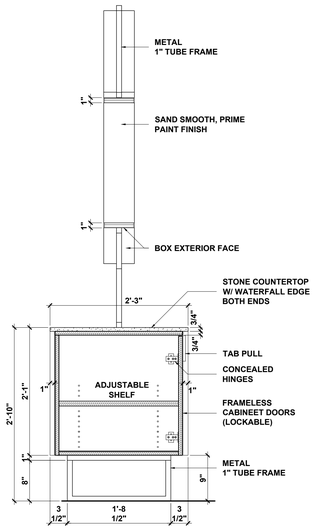
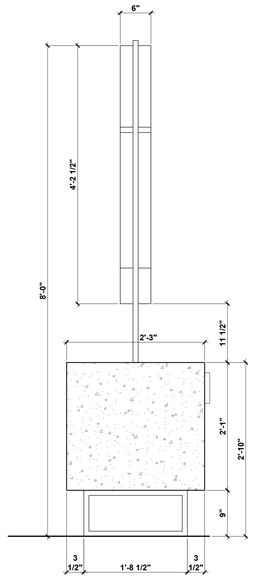
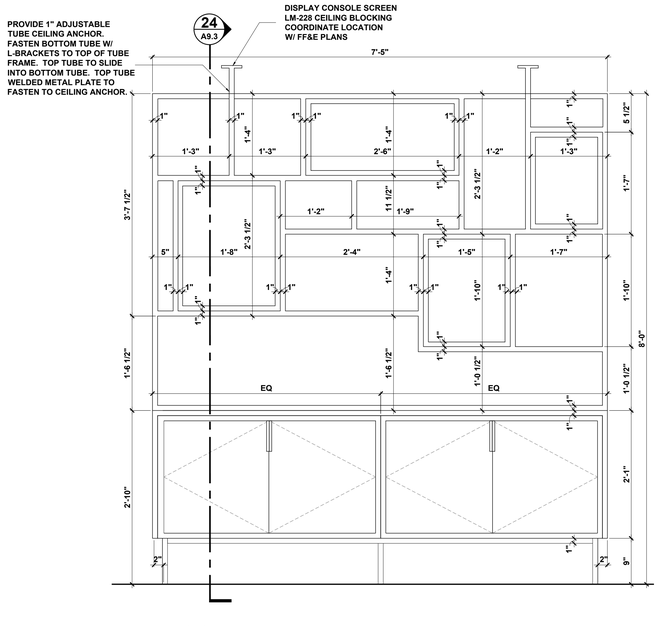


24 CEDENZA ELEVATION
24 A9.3 SCALE: 1" = 1'-0"



23 CEDENZA ELEVATION
23 A9.3 SCALE: 1" = 1'-0"



NOTES:
1. BOX INTERIORS SHALL BE SANDED SMOOTH, PRIMED AND PAINTED.

22 CEDENZA ELEVATION
22 A9.3 SCALE: 1" = 1'-0"

NOTES

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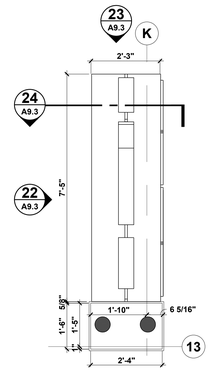
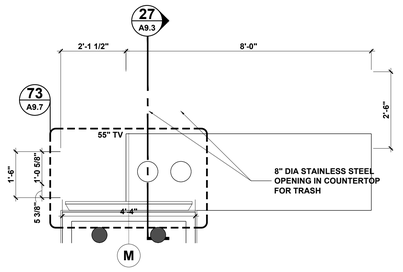
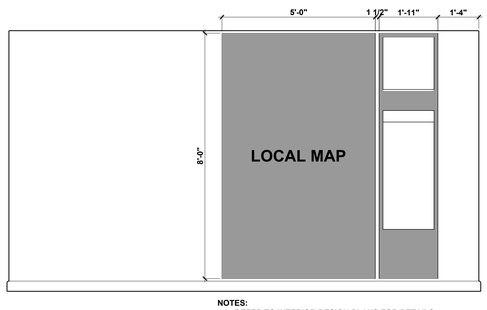


21 CEDENZA PLAN
21 A9.3 SCALE: 1/2" = 1'-0"

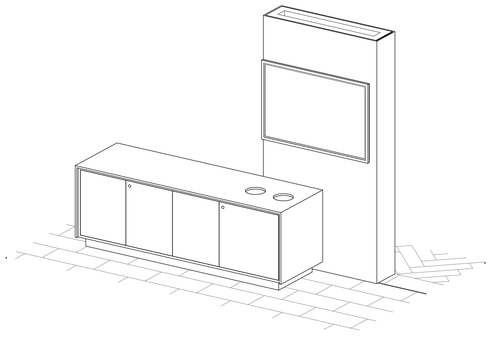


25 ON US PLAN
25 A9.3 SCALE: 1/2" = 1'-0"

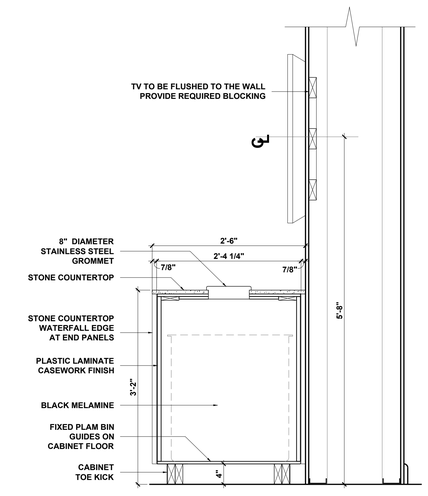


NOTES:
1. REFER TO INTERIOR DESIGN PLANS FOR DETAILS.

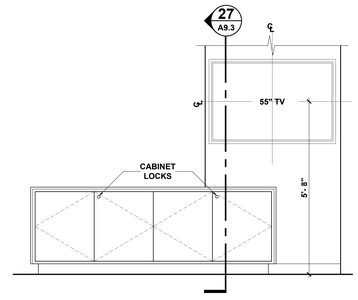
29 TOWN MAP WALL ELEVATION
29 A9.3 SCALE: NTS" = 1'-0"



28 ON US ISOMETRIC
28 A9.3 SCALE: NTS" = 1'-0"



27 ON US SECTION
27 A9.3 SCALE: 1/2" = 1'-0"



26 ON US ELEVATION
26 A9.3 SCALE: 1/2" = 1'-0"

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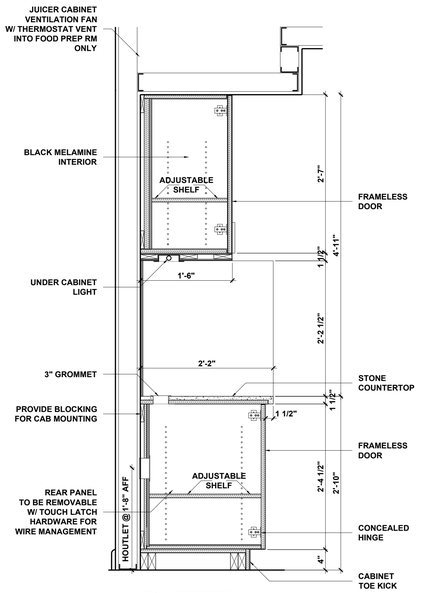
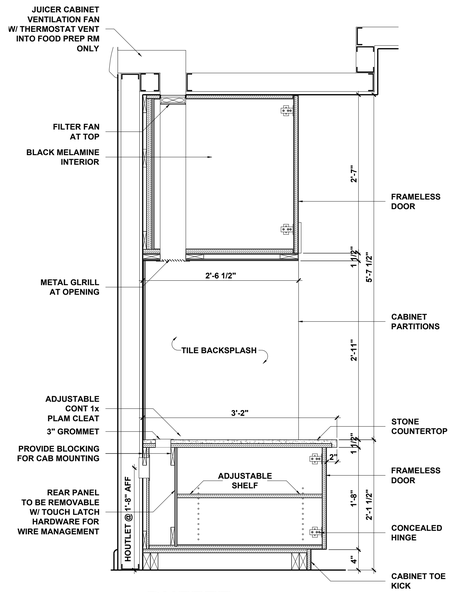


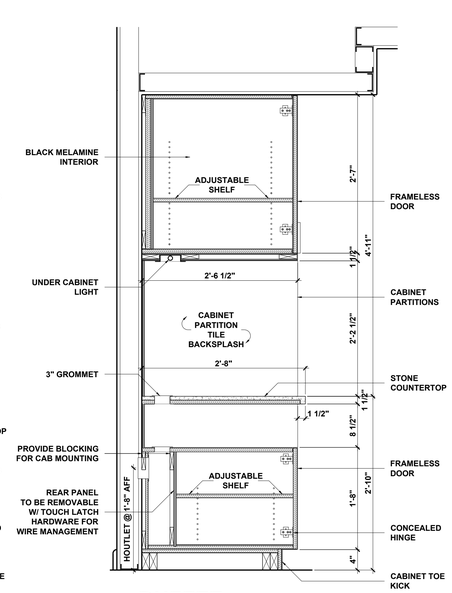
BUFFET COUNTER SECTION

37 A9.4 SCALE: 1" = 1'-0"



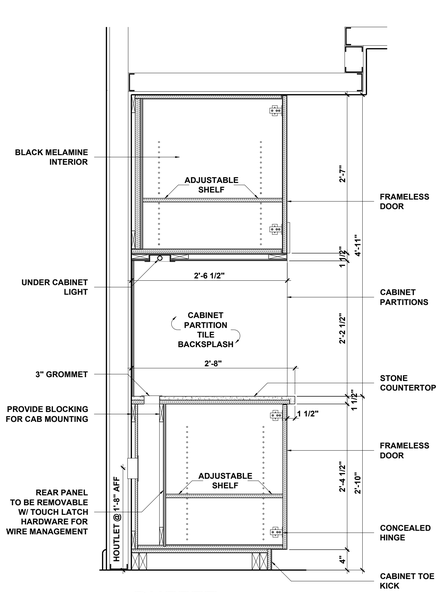
BUFFET COUNTER SECTION

36 A9.4 SCALE: 1" = 1'-0"



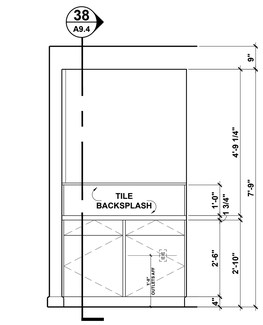
BUFFET COUNTER SECTION

35 A9.4 SCALE: 1" = 1'-0"



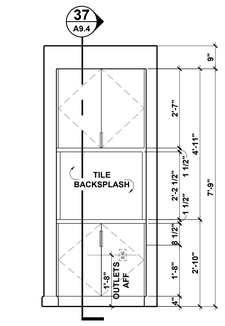
BUFFET COUNTER SECTION

34 A9.4 SCALE: 1" = 1'-0"



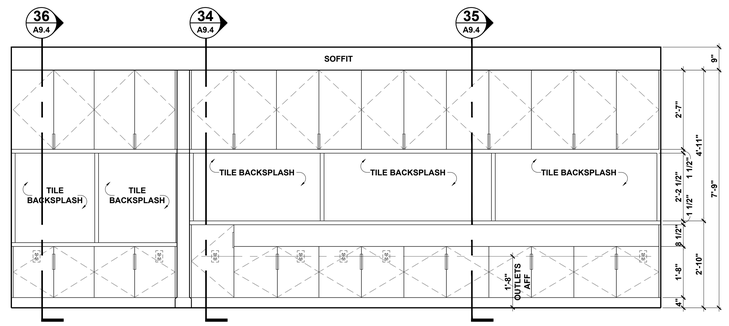
BUSSING ELEVATION

33 A9.4 SCALE: 1/2" = 1'-0"



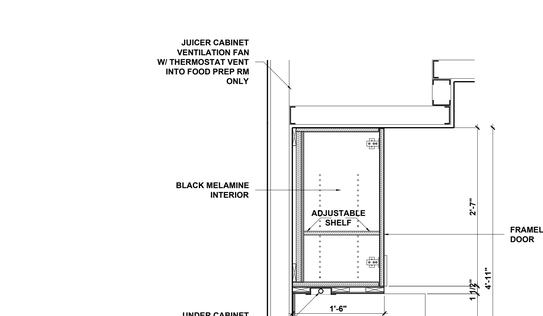
BUFFET COUNTER ELEVATION

32 A9.4 SCALE: 1/2" = 1'-0"



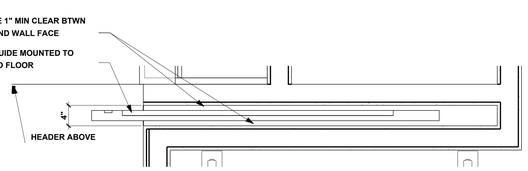
BUFFET COUNTER ELEVATION

31 A9.4 SCALE: 1/2" = 1'-0"



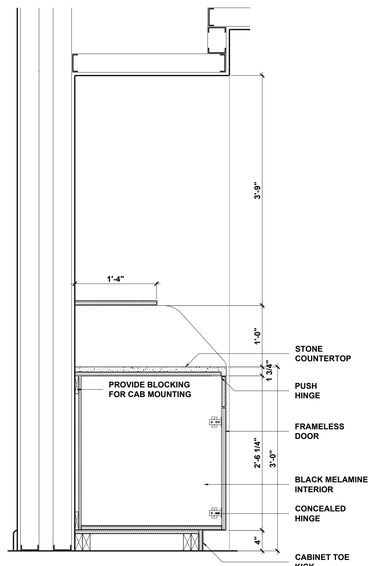
BUFFET POCKET BARN DOOR - HEAD

40 A9.4 SCALE: 3" = 1'-0"



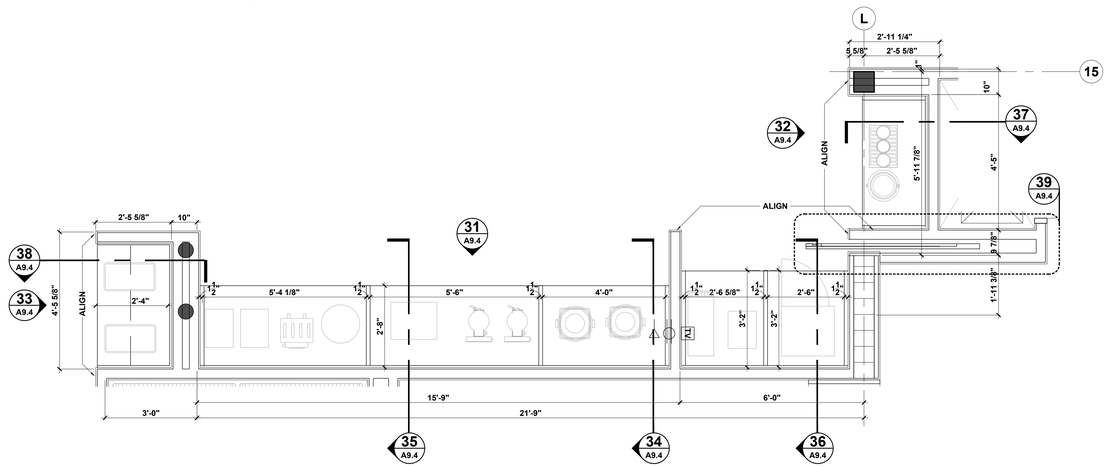
BUFFET POCKET BARN DOOR PLAN

39 A9.4 SCALE: 1" = 1'-0"



BUSSING COUNTER SECTION

38 A9.4 SCALE: 1" = 1'-0"



BUFFET COUNTER PLAN

30 A9.4 SCALE: 1/2" = 1'-0"

AA C0006606

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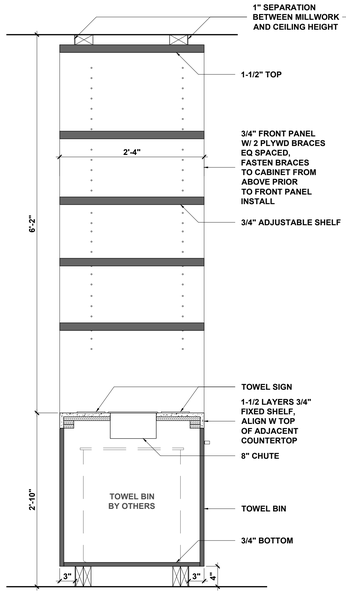
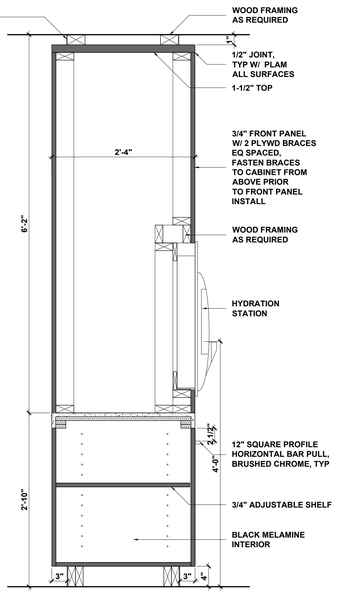


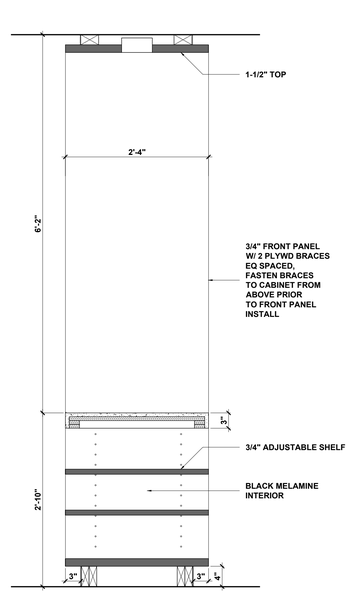
50 A9.5 HYDRATION STATION FITNESS RM SECTION

SCALE: 1" = 1'-0"



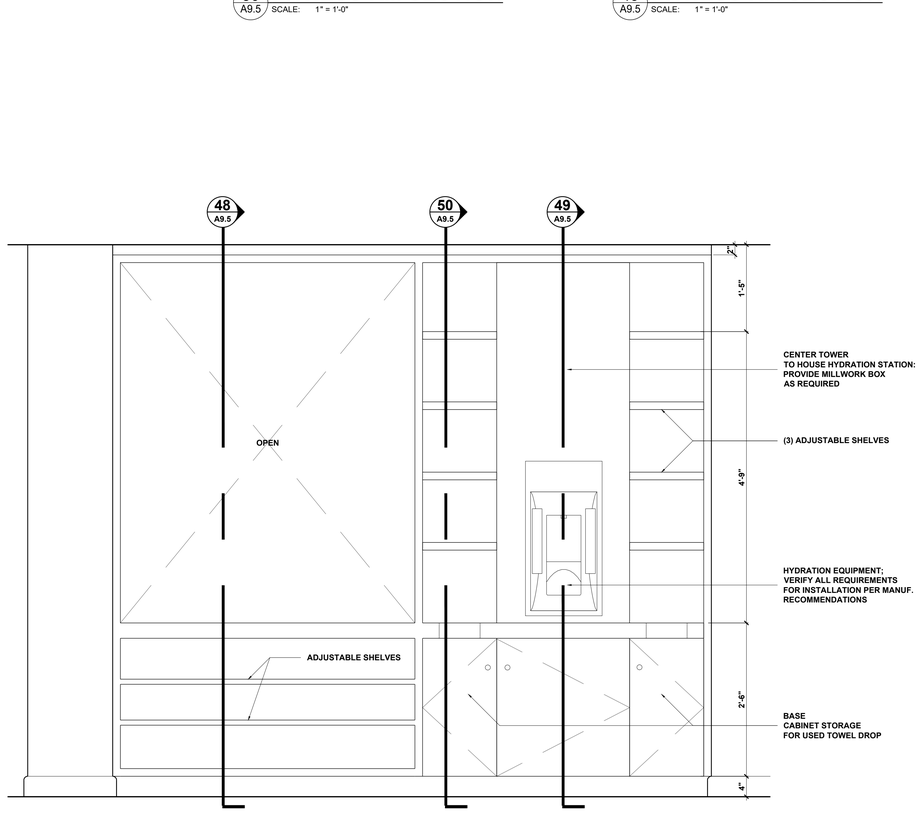
49 A9.5 HYDRATION STATION FITNESS RM SECTION

SCALE: 1" = 1'-0"



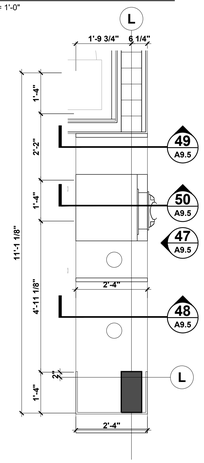
48 A9.5 HYDRATION STATION FITNESS RM SECTION

SCALE: 1" = 1'-0"



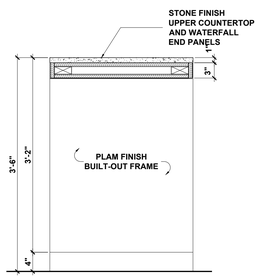
47 A9.5 FITNESS ROOM HYDRATION STATION ELEVATION

SCALE: 1" = 1'-0"



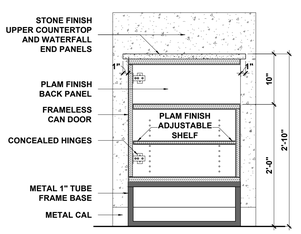
46 A9.5 HYDRATION STATION FITNESS ROOM PLAN

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



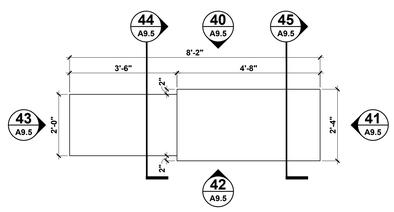
45 A9.5 BUFFET ISLAND SECTION

SCALE: 1" = 1'-0"



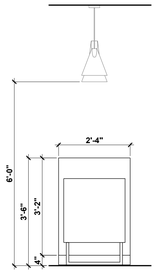
44 A9.5 BUFFET ISLAND SECTION

SCALE: 1" = 1'-0"



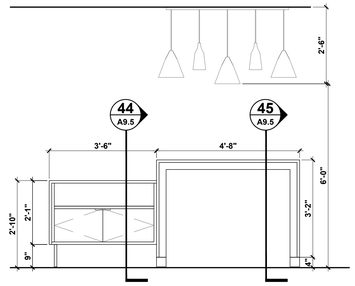
39 A9.5 BUFFET ISLAND PLAN

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



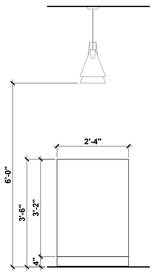
43 A9.5 BUFFET ISLAND ELEVATION

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



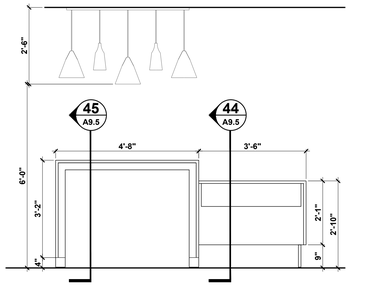
42 A9.5 BUFFET ISLAND ELEVATION

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



41 A9.5 BUFFET ISLAND ELEVATION

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



40 A9.5 BUFFET ISLAND ELEVATION

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

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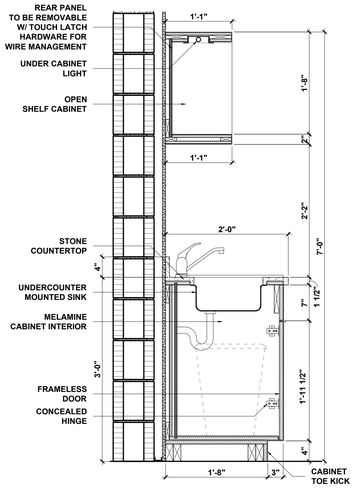
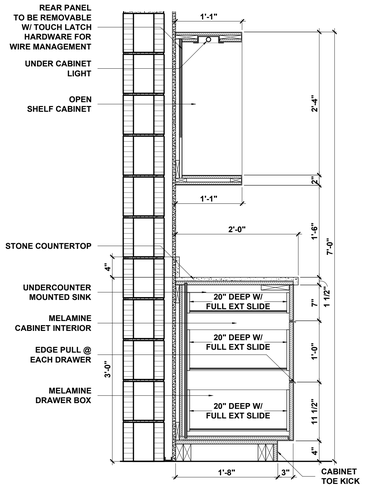


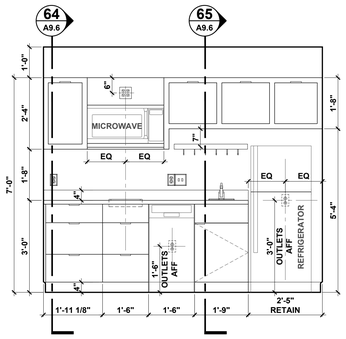
GUESTROOM KITCHEN SECTION

65 A9.6 SCALE: 1" = 1'-0"



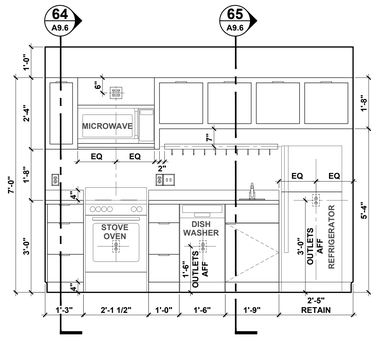
GUESTROOM KITCHEN SECTION

64 A9.6 SCALE: 1" = 1'-0"



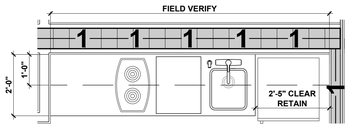
GUESTROOM KITCHEN PLAN

61 A9.6 SCALE: 1/2" = 1'-0"



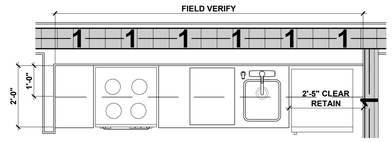
GUESTROOM KITCHEN PLAN

60 A9.6 SCALE: 1/2" = 1'-0"



GUESTROOM KITCHEN PLAN

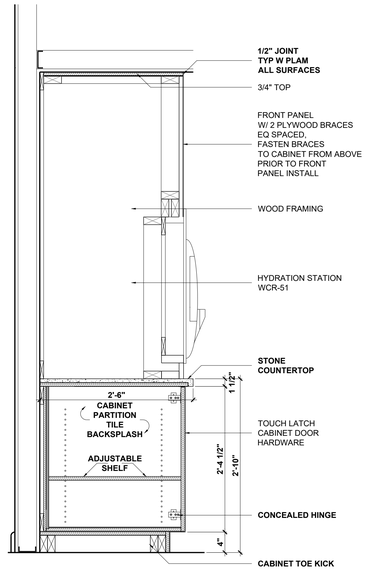
59 A9.6 SCALE: 1/2" = 1'-0"



GUESTROOM KITCHEN PLAN

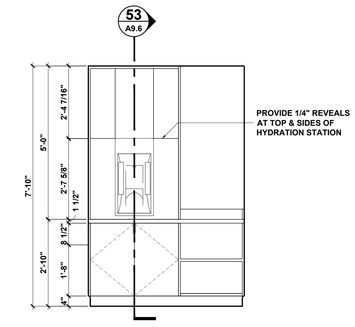
58 A9.6 SCALE: 1/2" = 1'-0"

NOTE"
PROVIDE 1" FILLER ON BOTH ENDS OF CABINETRY AS NEEDED TO BE MORE THAN 1" TO BE RECESSED



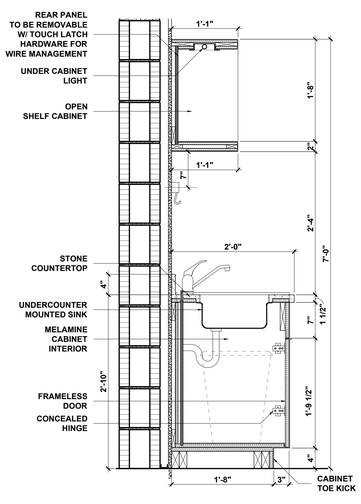
CORRIDOR HYDRATION STATION SECTION

53 A9.6 SCALE: 11" = 1'-0"



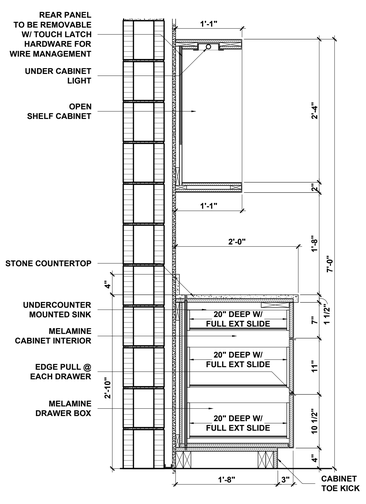
CORRIDOR HYDRATION STATION ELEV

52 A9.6 SCALE: 1/2" = 1'-0"



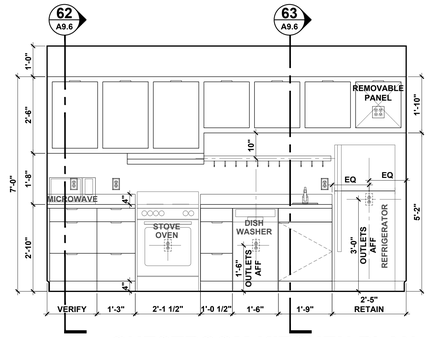
GUESTROOM - ADA KITCHEN SECTION

63 A9.6 SCALE: 1" = 1'-0"



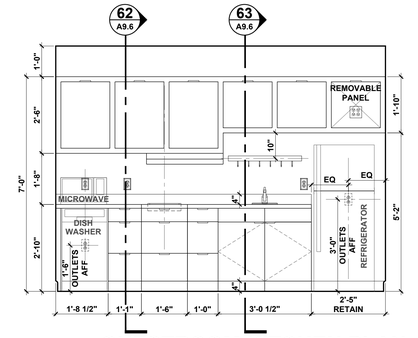
GUESTROOM - ADA KITCHEN SECTION

62 A9.6 SCALE: 1" = 1'-0"



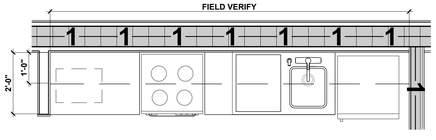
GUESTROOM KITCHEN PLAN

57 A9.6 SCALE: 1/2" = 1'-0"



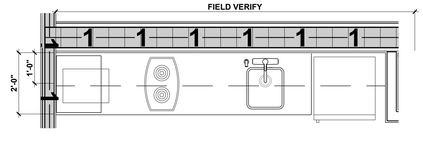
GUESTROOM KITCHEN PLAN

56 A9.6 SCALE: 1/2" = 1'-0"



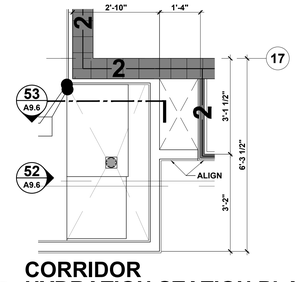
GUESTROOM KITCHEN PLAN - ADA

55 A9.6 SCALE: 1/2" = 1'-0"



GUESTROOM KITCHEN PLAN - ADA

54 A9.6 SCALE: 1/2" = 1'-0"



CORRIDOR HYDRATION STATION PLAN

51 A9.6 SCALE: 1/2" = 1'-0"

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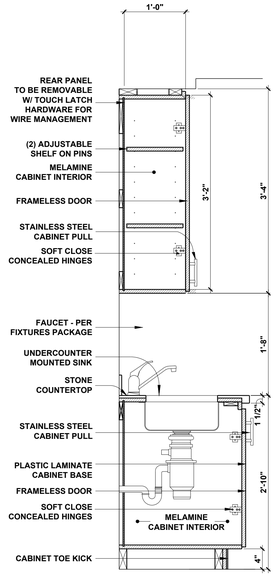
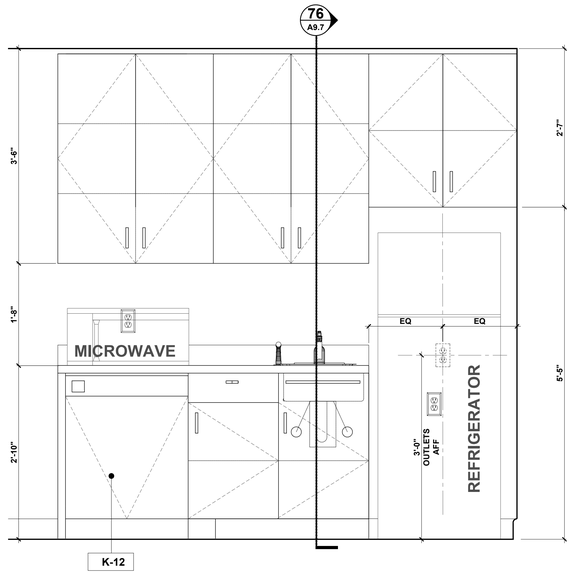
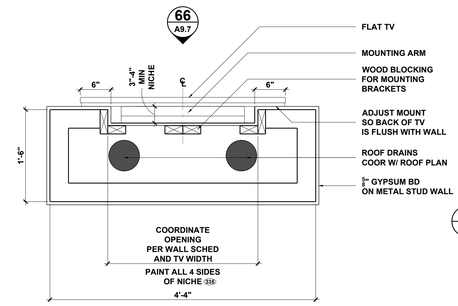
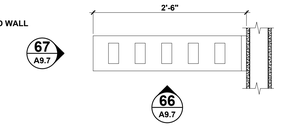






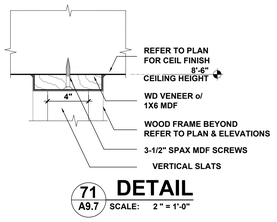
GUESTROOM TV MOUNTING PLAN

73 A9.7 SCALE: 1" = 1'-0"



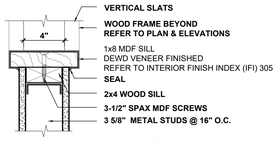
GUESTROOM SLAT WALL PLAN

68 A9.7 SCALE: 1" = 1'-0"



71 A9.7 DETAIL

SCALE: 2" = 1'-0"

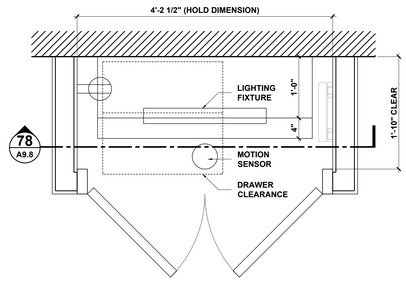


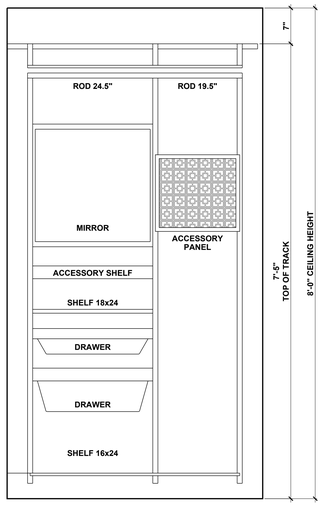
70 A9.7 DETAIL

SCALE: 2" = 1'-0"

69 A9.7 DETAIL

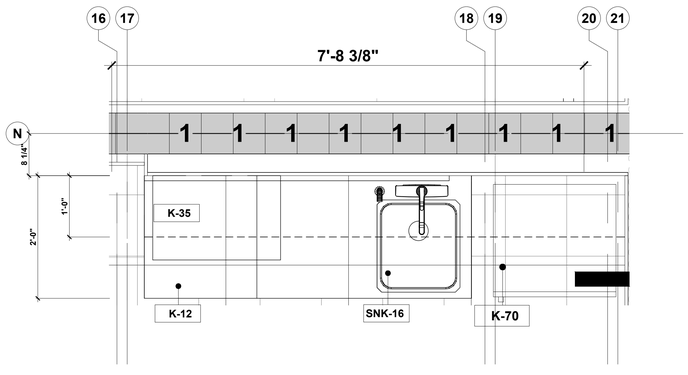
SCALE: 2" = 1'-0"





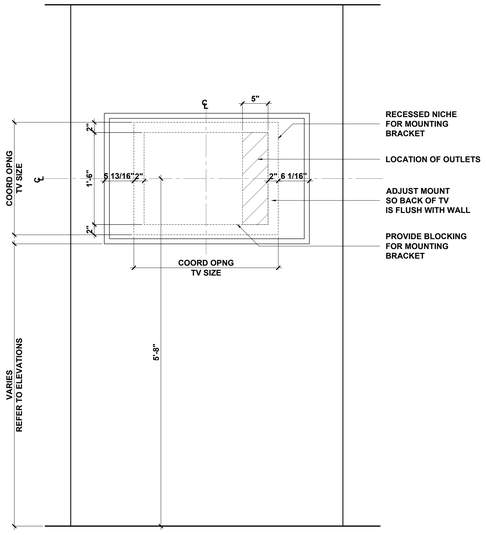
GUESTROOM CLOSET ELEVATION

78 A9.8 SCALE: 1" = 1'-0"



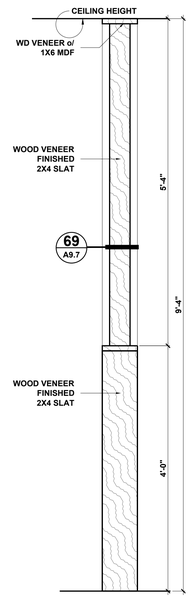
EMP-BREAKROOM KICHEN PLAN

74 A9.8 SCALE: 1" = 1'-0"



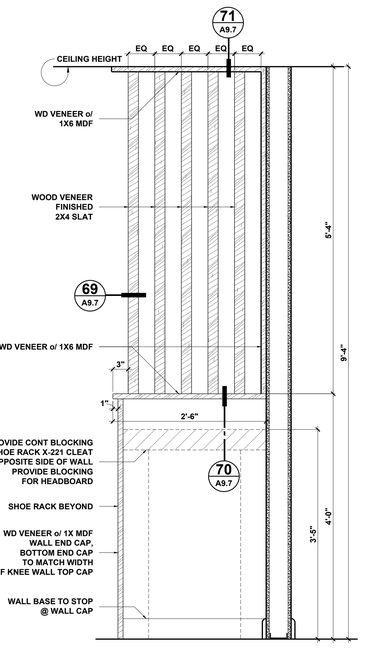
GUESTROOM TV MOUNTING ELEVATION

72 A9.7 SCALE: 1" = 1'-0"



GUESTROOM SLAT WALL ELEVATION

67 A9.7 SCALE: 1" = 1'-0"



GUESTROOM SLAT WALL ELEVATION

66 A9.7 SCALE: 1" = 1'-0"

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TOWNEPLACE SUITES®
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TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET
A9.7
OF

SECTION 07170

BENTONITE WATERPROOFING

PART 1
GENERAL

1.1 RELATED DOCUMENTS
THE GENERAL PROVISION OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY
CONDITIONS AND GENERAL REQUIREMENTS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.2 DESCRIPTION OF WORK
THE EXTENT OF GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE IS SPECIFIED HEREIN.
FOR USE AT THE ELEVATOR PIT IN CONJUNCTIO0N WITH CCW MIRADRAIN.

1.3 RELATED WORK
A. CONCRETE
B. MASONRY BACKFILL
C. EXPANSION JOINTS

1.4 QUALITY ASSURANCE
A. MANUFACTURER: PROVIDE GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE PRODUCED BY A MANUFACTURER WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE WATERPROOFING INDUSTRY.
B. INSTALLER: A FIRM WITH A MINIMUM OF 2 YEARS EXPERIENCE IN INSTALLING BENTONITE CLAY OR OTHER RELATED WATERPROOFING PRODUCTS.
C. SHOTCRETE INSTALLATIONS SHOULD HAVE AN INDEPENDENT INSPECTOR TO RECORD AND MONITOR THE SHOTCRETE INSTALLATION.

1.6 WARRANTY
A. UPON COMPLETION AND ACCEPTANCE OF THE WORK REQUIRED BY THIS SECTION, THE MANUFACTURER WILL ISSUE A WARRANTY AGREEING TO PROMPTLY REPLACE DEFECTIVE MATERIALS FOR A PERIOD OF 5 YEARS.

1.7 PRODUCT DELIVERY, STORAGE AND HANDLING
A. DELIVER MATERIALS IN ORIGINAL MANUFACTURER'S PACKAGING AND STORE MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. REMOVE AND REPLACE PRODUCTS THAT HAVE BEEN PREMATURELY EXPOSED TO MOISTURE.

1.8 PROJECT CONDITIONS
A. INSTALL MATERIALS IN ACCORDANCE WITH ALL SAFETY AND WEATHER CONDITIONS REQUIRED BY THE MANUFACTURER.
B. INSTALL MATERIALS ONLY AFTER WORK ON THE APPLICABLE SUBSTRATE IS COMPLETE.
C. COMPLETE CAST-IN-PLACE REINFORCED COLUMNS PRIOR TO MEMBRANE INSTALLATION.

PART 2
PRODUCTS

2.1 WATERPROOFING SYSTEM
A. THE GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE SHALL BE CCW MIRACLAY SUPPLIED BY CARLISLE COATINGS & WATERPROOFING INCORPORATED, 900 HENSLEY LANE, WYLIE, TEXAS 75098, PHONE (800) 527-7092 FAX: (972) 442-0076.
B. PHYSICAL PROPERTIES FOR GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE:

CCW MIRACLAY PHYSICAL PROPERTIES:

PROPERTY	TEST METHOD	VALUE
BENTONITE CONTENT	--	1.0 LB./FT2 (.488 KG/M2)*
NOMINAL DRY THICKNESS	--	0.25 IN. (6.4 MM)
WEIGHT	--	75 LB. (34.05 KG)
PERMEABILITY	ASTM D 5084	5 X 10-9 CM/SEC
GRAB TENSILE STRENGTH	ASTM D 4632	95 LB. (422 N)
GRAB ELONGATION	ASTM D 4632	150%
PUNCTURE RESISTANCE	ASTM D 4	120 PSI (828 KPA)
HYDRATED INTERNAL SHEAR	ASTM D 5321	500 PSF (24 KPA)
SWELL INDEX	ASTM D 5890	2G (24 ML) MIN.
FLUID LOSS	ASTM D 5891	18 ML MAX

*@ 12% MOISTURE CONTENT

C. WATERPROOFING SYSTEM ACCESSORIES SUPPLIED BY WATERPROOFING MEMBRANE MANUFACTURER:

MASTIC: CCW MIRACLAY MASTIC IS USED FOR DETAILING AT TERMINATIONS AND PENETRATIONS. ALSO USED TO FILL MINOR VOIDS IN CONCRETE AND AS A FILLET IN ANGLE CHANGES.

GRANULES: CCW MIRACLAY GRANULES USED FOR HORIZONTAL TO VERTICAL TRANSITIONS AND FOR DETAILING AT SEAMS AND SLAB PENETRATIONS.

WATERSTOP: CCW MIRASTOP USED AS A WATERSTOP AT COLD CONCRETE POURS AND BETWEEN PRE-CAST CONCRETE PANELS.

D. MEMBRANE TO SUBSTRATE FASTENERS: FASTENERS, OF THE TYPE AND LENGTH SUITABLE FOR THE SUBSTRATE, SHALL BE USED IN CONJUNCTION WITH WASHERS, OF AT LEAST 1" DIAMETER, TO ATTACH THE GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE TO THE SUBSTRATE.
E. MEMBRANE TO MEMBRANE FASTENERS: MECHANICALLY FASTEN MEMBRANE SHEETS TOGETHER WITH A BOX-STAPLER OR SIMILAR DEVICE FOR HORIZONTAL APPLICATIONS.
F. THE GEOTEXTILE/BENTONITE MEMBRANE SHALL CONSIST OF GEOTEXTILE PANELS OF SODIUM BENTONITE CLAY SANDWICHED BETWEEN TWO LAYERS OF NEEDLE-PUNCHED WOVEN AND NON-WOVEN POLYPROPYLENE FABRICS.
G. DRAINAGE COMPOSITE: SHALL BE CCW MIRADRAIN® AS RECOMMENDED BY THE MANUFACTURER FOR EACH CONDITION.
H. PERIMETER DRAINAGE SYSTEM: WHERE REQUIRED SHALL BE CCW QUICKDRAIN™.

PART 3
EXECUTION

3.1 INSPECTION
A. EXAMINE SUBSTRATE AND CONDITION UNDER WHICH WATERPROOFING WILL BE INSTALLED. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 SURFACE PREPARATION

A. LAGGING, CONCRETE CASSIONS, SHOTCRETE OR GUNITE APPLICATIONS:
1. FILL ALL SPACES THAT ARE OVER 1" (25MM) IN WIDTH WITH GROUT OR CONCRETE TO A SMOOTH AND UNIFORM SURFACE. COVER LARGE GAPS WITH 1/2" (12MM) PLYWOOD OR CCW MIRADRAIN 6000 OR 6000XL.
2. TROWEL CCW MIRACLAY MASTIC AROUND ALL TIEBACK PLATES AND SOLDIER BEAMS A MINIMUM OF 1 1/2" (39MM) THICK AND EXTEND A MINIMUM OF 4" (10CM) BEYOND THE FLANGE.
3. REMOVE PROJECTIONS FROM THE WALL SURFACE IN EXCESS OF 3/4" (20MM).
C. GRADE SUBSTRATES: SHALL BE LEVEL AND UNIFORM THAT IS COMPACTED TO A MINIMUM OF 85% MODIFIED PROCTOR.
D. CONCRETE APPLICATION:
1. APPLY CCW MIRACLAY MASTIC TO ALL CONSTRUCTION JOINTS AT A MINIMUM OF 1/4" (7MM) THICKNESS AND A 3" (8CM) MINIMUM WIDTH.
2. REMOVE PROJECTIONS FROM THE WALL SURFACE IN EXCESS OF 3/4" (20MM).

E. HONEYCOMBING, VOIDS AND AGGREGATE POCKETS EXCEEDING 1 INCH IN DIAMETER OR HAVE A DEPTH GREATER THAN 3/4 INCH SHOULD BE FILLED WITH A NON-SHRINK CEMENTITIOUS GROUT. FILL TIE-ROD HOLES WITH A NON-SHRINK CEMENTITIOUS GROUT.

3.3 INSTALLATION

A. Prevent geotextile/bentonite clay waterproofing membrane from hydrating before being covered with overburden. When threat of rain is imminent or backfill is not immediate, geotextile/bentonite clay waterproofing membrane should be covered with polyethylene sheeting.

B. Lagging Application
1. Install a stripping piece of CCW MiraCLAY over each soldier beam that extends a minimum of 8" (20cm) beyond either side of the beam. Each soldier beam shall have a double layer of CCW MiraCLAY Membrane.
2. Install CCW MiraCLAY with the white non-woven side out, facing the installer.
3. Starting at the bottom of the wall, unroll CCW MiraCLAY and nail across top of panel one nail per 12" (31cm) on center. Allow sheet to hang down nailing only as required to stabilize.
4. Install adjacent membrane by overlapping edges a minimum of 4" (10cm).
5. Fasten membrane once every 18" (45cm) on seams or as required to prevent blousing.
6. Extend waterproofing membrane to or above grade and fasten membrane once every 12" to 15" (31cm to 39cm).
7. Install CCW MiraSTOP at all pour joints and exterior perimeter of tie-back box outs.

C. Underslab Application: (Concrete slab shall have a minimum thickness of 4" if reinforced or 5" if not reinforced).
1. Install CCW MiraCLAY with the white non-woven side up, facing the installer.
2. Overlap edges a minimum of 4" (10cm).
3. Protect CCW MiraCLAY from damage caused by chairs with sharp edges or points by placing a patch of CCW MiraCLAY under the chair.
4. Staple joints often enough to prevent excessive movement.
5. Pour CCW MiraCLAY Granules or trowel CCW MiraCLAY Mastic around all penetrations and press in "cut to fit" collars of CCW MiraCLAY.
6. Extend the installation of CCW MiraCLAY 12" (31cm) up or beyond the perimeter slab forms.
7. Inspect and repair any damaged material before concrete pour.

D. Concrete Wall Application:
1. Install CCW MiraCLAY with the white non-woven side out, facing the installer.
2. Starting at the bottom of the wall, unroll CCW MiraCLAY and nail across top of panel one nail per 12" (31cm) on center. Allow sheet to hang down nailing only as required to stabilize.
3. Install adjacent membrane by overlapping edges a minimum of 4" (10cm).
4. Fasten membrane once every 18" (45cm) on seams or as required to prevent blousing with 3/4" (20mm) to 1" (25mm) concrete nails with washers.
5. Extend waterproofing membrane to 6-inches below grade and fasten membrane to the substrate to maintain constant compression using a 1/8" X 1" (3 X 25 mm) minimum termination bar. Trowel a 1/2" (12mm) thick and 2" (5cm) wide bead of CCW MiraCLAY Mastic at top edge of membrane and cover termination bar.
6. Create a cant at any vertical to horizontal transition by applying a 1.5" to 2" (4cm to 5cm) cant of CCW MiraCLAY Granules or CCW MiraCLAY Mastic.
7. Strip in all corners and transitions with a 12" to 15" (31cm to 39cm) piece of CCW MiraCLAY membrane to double cover these areas.
8. Backfill must be compactable soils free of construction debris and must be uniformly compacted to a minimum 85% Modified Protor on each lift.

3.5 PROTECTION AND DRAINAGE
1. Protect the geotextile/bentonite clay waterproofing membrane with CCW MiraDRAIN Drainage Composite.
2. Install the CCW MiraDRAIN Drainage Composite according to the detailed drawings for the specific installation requirements of the project.

3.6 BACKFILL

Backfill with smooth and uniform material with no sharp projections or stones larger than ¾-inch. Compact backfill to an 85% Modified Proctor. Insure backfill material is not contaminated with salt or other materials that could prevent the CCW MiraCLAY from hydrating.

END OF SECTION

SECTION 07570

TRAFFIC COATING-PEDESTRIAN

PART 1
GENERAL

1.1 SECTION INCLUDES:
INSTALLATION OF WATERPROOF POLYURETHANE TRAFFIC COATING ON AALL BALCONIES AND EXTERIOR ELEVATED PEDESTRIAN AREAS, CONSISTING OF PREPARATION OF EXISTING AND REPAIRED CONCRETE SURFACES, SEALING OF CRACKS AND JOINTS, AND APPLICATION OF CCW-5013 DECK COATING SYSTEM.

1.2 RELATED SECTIONS
A. SECTION 03150 - EXPANSION JOINTS.
B. SECTION 03300 - CAST-IN-PLACE CONCRETE.
C. SECTION 07900 - CAULKING AND SEALANTS.
D. DIVISION 15 - FLOOR DRAINS AND STANDPIPES.
E. DIVISION 16 - CONDUIT AND OTHER ELECTRICAL.

1.3 REFERENCES
ASTM C 957 HIGH SOLIDS CONTENT, COLD LIQUID-APPLIED ELASTOMERIC WATERPROOFING MEMBRANE WITH INTEGRAL WEARING SURFACE.

1.4 SYSTEM DESCRIPTION
PRODUCT PROVIDED BY THIS SECTION IS A SYSTEM OF COMPATIBLE POLYURETHANE DECK COATINGS DESIGNED TO CREATE A SEAMLESS WATERPROOFING MEMBRANE AND SUITABLE FOR USE AS A WEARING SURFACE ON PEDESTRIAN TRAFFIC DECKS.

1.5 SUBMITTALS
A. GENERAL: SUBMIT IN ACCORDANCE WITH SECTION 01300.
B. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT LITERATURE AND INSTALLATION INSTRUCTIONS.
C. SUBCONTRACTOR=S APPROVAL BY MANUFACTURER: SUBMIT DOCUMENT STATING MANUFACTURER'S ACCEPTANCE OF SUBCONTRACTOR AS AN APPROVED APPLICATOR FOR THE SPECIFIED MATERIALS.
D. WARRANTY: SUBMIT A SAMPLE WARRANTY IDENTIFYING THE TERMS AND CONDITIONS STATED IN SECTION 1.7.
E. MAINTENANCE MANUAL: UPON COMPLETION OF THE WORK REQUIRED BY THIS SECTION, SUBMIT ONE MAINTENANCE MANUAL INCLUDING RECOMMENDATIONS FOR PERIODIC INSPECTIONS, CARE, MAINTENANCE AND REPAIR OF DAMAGE.

1.6 QUALITY ASSURANCE
A. APPLICATOR QUALIFICATIONS: APPLICATOR SHALL BE EXPERIENCED IN APPLYING THE SAME OR SIMILAR MATERIALS AND SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE COATING SYSTEM MANUFACTURER.
B. REGULATORY REQUIREMENTS: COMPLY WITH APPLICABLE CODES, REGULATIONS, ORDINANCES AND LAWS REGARDING USE AND APPLICATION OF COATING SYSTEMS THAT CONTAIN VOLATILE ORGANIC COMPOUNDS (VOC).
C. PRE-APPLICATION CONFERENCE: PRIOR TO BEGINNING WORK, CONVENE A CONFERENCE TO REVIEW CONDITIONS, INSTALLATION PROCEDURES, SCHEDULES AND COORDINATION WITH OTHER WORK.

1.7 WARRANTY
A. UPON COMPLETION AND ACCEPTANCE OF THE WORK REQUIRED BY THIS SECTION, THE INSTALLATION SHALL BE WARRANTED, ON A SINGLE DOCUMENT, BY THE MANUFACTURER AND THE APPLICATOR.
B. THE INSTALLATION SHALL BE WARRANTED AGAINST LOSS OF WATERPROOFING INTEGRITY, ADHESIVE OR COHESIVE FAILURE, AND COATING CRACKS AS A RESULT OF CRACKS IN THE SUBSTRATE UP TO 1/16" IN WIDTH.

1.8 DELIVERY, STORAGE, AND HANDLING
A. DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL, FACTORY-SEALED, UNOPENED CONTAINERS BEARING MANUFACTURER'S NAME AND LABEL INTACT AND LEGIBLE WITH FOLLOWING INFORMATION.
1. NAME OF MATERIAL.
2. MANUFACTURER'S STOCK NUMBER AND DATE OF MANUFACTURE.
3. MATERIAL SAFETY DATA SHEET.

B. RECOMMENDED STORAGE AND APPLICATION TEMPERATURE IS 75 DEGREES F. STORE MATERIALS IN PROTECTED AND WELL VENTILATED AREA.

1.9 PROJECT CONDITIONS
A. DO NOT APPLY COATING MATERIALS IF TEMPERATURE IS LESS THAN 40 DEGREES F. OR IF PRECIPITATION IS IMMINENT.
B. COORDINATE DECK COATING WORK WITH OTHER TRADES TO ENSURE ADEQUATE ILLUMINATION, VENTILATION, AND DUST-FREE ENVIRONMENT DURING APPLICATION AND CURING OF DECK COATINGS. THE APPLICATOR SHALL HAVE SOLE RIGHT OF ACCESS TO THE SPECIFIED AREAS FOR THE TIME NEEDED TO COMPLETE THE APPLICATION AND ALLOW THE COATING TO CURE ADEQUATELY.
C. PROTECT ADJOINING SURFACES NOT TO BE COATED AGAINST DAMAGE OR SOILING. PROTECT PLANTS, VEGETATION AND ANIMALS WHICH MIGHT BE AFFECTED BY COATING OPERATIONS.
D. WARN PERSONNEL AGAINST BREATHING OF VAPORS AND CONTACT OF MATERIAL WITH SKIN OR EYES. WEAR APPLICABLE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION GEAR.
E. TAKE CARE TO KEEP VAPORS FROM ENTERING OCCUPIED STRUCTURES. TURN OFF INTAKE BLOWERS, SEAL DOORS, VENTS AND OTHER OPENINGS THAT COULD ALLOW VAPORS TO ENTER.
F. KEEP PRODUCTS AWAY FROM SPARK OR FLAME. DO NOT ALLOW THE USE OF SPARK PRODUCING EQUIPMENT DURING APPLICATION AND UNTIL ALL VAPORS HAVE DISSIPATED. POST "NO SMOKING" SIGNS.
G. MAINTAIN WORK AREA IN A NEAT AND ORDERLY CONDITION, REMOVING EMPTY CONTAINERS, RAGS, AND RUBBISH DAILY FROM THE SITE.

PART 2
PRODUCTS

2.1 MANUFACTURERS
PROVIDE CCW-5013 DECK COATING SYSTEM AS MANUFACTURED BY CARLISLE COATINGS AND WATERPROOFING INCORPORATED, 900 HENSLEY LANE, WYLIE, TEXAS 75098, PHONE: (800) 527-7092 FAX: (972) 442-0076.

2.2 PRODUCTS
A. BASE MEMBRANE: SHALL BE CCW-501 SINGLE-COMPONENT, VOC COMPLIANT, HIGH ADHESION, MOISTURE CURED, LIQUID POLYURETHANE MEMBRANE AND SHALL MEET OR EXCEED THE FOLLOWING TYPICAL PERFORMANCE PROPERTIES:

PROPERTY	TYPICAL VALUE	ASTM METHOD
COMPOSITION	AROMATIC URETHANE	
SOLIDS BY WEIGHT	85%	C 1250
HARDNESS, SHORE A	63	D 2240
TENSILE STRENGTH	850 PSI	D 412
ULTIMATE ELONGATION	625%	D 412
TEAR RESISTANCE	140 LB/IN	D 624
ADHESION TO CONCRETE	23 PLI	D 903
LOW TEMP. FLEXIBILITY	-65° F	D 522

B. TRAFFIC-RESISTANT TOP COAT: SHALL BE CCW-503 SINGLE COMPONENT, VOC COMPLIANT, HIGH TENSILE STRENGTH, ABRASION-RESISTANT AND WEATHER-RESISTANT ALIPHATIC ELASTOMERIC POLYURETHANE AND SHALL MEET OR EXCEED THE FOLLOWING TYPICAL PERFORMANCE PROPERTIES:

PROPERTY	TYPICAL VALUE	ASTM METHOD
COMPOSITION ALIPHATIC URETHANE		
SOLIDS BY WEIGHT	72%	C 1250
HARDNESS, SHORE A	91	D 2240
TENSILE STRENGTH	3200 PSI	D 412
ULTIMATE ELONGATION	190%	D 412
TEAR RESISTANCE, DIE C	300 LB/IN.	D 624
LOW TEMP. FLEXIBILITY AND CRACK BRIDGING*	PASS	C 957
WEATHER RESISTANCE	NO CHALKING AT 2000 HRS.	G 53
WATER PERMEABILITY (SYSTEM)	< 1.0 PERM	E 96 B
ABRASION RESISTANCE (SYSTEM)	< 50 MG.	C 501
FIRE RESISTANCE (SYSTEM)	CLASS A	U.L. 790

* DECK COATING SYSTEM

2.3 ACCESSORY PRODUCTS
A. SURFACE PRIMER: SHALL BE CCW-557 TWO COMPONENT EPOXY PRIMER OR AS RECOMMENDED BY MANUFACTURER FOR EACH SURFACE ENCOUNTERED.
B. DETAIL COAT: SHALL BE CCW-501-T SINGLE-COMPONENT, MOISTURE CURED POLYURETHANE MEMBRANE.
C. AGGREGATE: SHALL BE CLEAN, DRY 30 TO 65 MESH AGGREGATE AS APPROVED BY THE COATING MANUFACTURER.
D. SEALANTS: SHALL BE PT-304 ONE COMPONENT OR CCW-201 TWO COMPONENT POLYURETHANE SEALANT.
E. BACKING ROD: SHALL BE CLOSED-CELL POLYETHYLENE FOAM ROD.
F. FLEXIBLE FLASHING: SHALL BE AS RECOMMENDED AND SUPPLIED BY COATING MANUFACTURER.

PART 3
EXECUTION

3.1 INSPECTION

A. BEFORE ANY WATERPROOFING WORK IS STARTED THE WATERPROOFING APPLICATOR SHALL THOROUGHLY EXAMINE ALL SURFACES FOR ANY DEFICIENCIES. SHOULD ANY DEFICIENCIES EXIST, THE ARCHITECT, OWNER, OR GENERAL CONTRACTOR SHALL BE NOTIFIED IN WRITING AND CORRECTIONS MADE.
B. CONDITION OF CONCRETE SURFACES:
THE CONCRETE SURFACES SHALL BE OF SOUND STRUCTURAL GRADE (MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH FOR PEDESTRIAN DECKS), AND SHALL HAVE A STEEL-TROWELED FOLLOWED BY A FINE BROOM FINISH, FREE OF FINS, RIDGES, VOIDS OR ENTRAINED AIR HOLES.
CONCRETE SHALL BE CURED BY WATER CURING METHOD. CURING COMPOUNDS MUST BE OF THE PURE SODIUM SILICATE TYPE AND BE APPROVED BY THE CARLISLE REPRESENTATIVE.
C. CONCRETE SHALL BE CURED AT LEAST 28 DAYS AND SHALL BE SLOPED FOR PROPER DRAINAGE.
D. SAW-CUT CONTROL JOINTS AND/OR EXPANSION JOINTS SHALL HAVE BEEN PROPERLY INSTALLED AT STRATEGIC POINTS THROUGHOUT THE FIELD OF THE DECK TO CONTROL CRACKING CAUSED BY DEFLECTION AND SHRINKAGE.
E. ANY REQUIRED CRICKETS OR DRAINS SHOULD BE INSTALLED AT THE TIME THE MAIN DECK IS POURED. DECK SHOULD BE MONOLITHIC.
F. VOIDS, ROCK POCKETS AND EXCESSIVELY ROUGH SURFACES SHALL BE REPAIRED WITH APPROVED NON-SHRINK GROUT OR GROUND TO MATCH THE UNREPAIRED AREAS.
G. WHEN METAL DECKING IS USED AS THE CONCRETE FORM, IT SHALL BE OF THE VENTILATED TYPE.
H. ALL CONCRETE DECKS POURED OVER PRECAST "T'S", PLANKS OR SLABS, SHALL HAVE CONTROL JOINTS PLACED DIRECTLY OVER ALL CORRESPONDING JOINTS OR OPENINGS IN THE PRECAST UNITS.

3.2 SURFACE PREPARATION

A. CONCRETE SURFACES:
B. THE CONCRETE SURFACE MUST BE THOROUGHLY CLEAN, DRY AND FREE FROM ANY SURFACE CONTAMINATES OR CLEANING RESIDUE.
C. INSTALL A 1" FACE, 45 DEGREE CANT OF PT-304 OR CCW-201 POLYURETHANE SEALANT AT ALL ANGLE CHANGES INCLUDING PROJECTIONS THROUGH THE DECK, WALLS, CURBS, ETC.
D. ALL CRACKS OVER 1/16" IN WIDTH AND ALL MOVING CRACKS UNDER 1/16" IN WIDTH SHALL BE SAW CUT TO 1/4" MINIMUM IN WIDTH AND DEPTH. SAW CUT A 1/4" BY 1/4" KERF AROUND DRAIN FLANGES. CLEAN, PRIME AND FILL SAW CUTS FLUSH WITH PT-304 OR CCW-201 POLYURETHANE SEALANT.
E. ALL MOVING CRACKS OVER 1/16" WIDE AND ALL EXPANSION JOINTS LESS THAN 1" WIDE SHALL BE CLEANED, PRIMED, FITTED WITH A BACKING ROD AND CAULKED WITH CCW-201 POLYURETHANE SEALANT. FOR LARGER JOINTS, CONTACT CARLISLE REPRESENTATIVE.
F. ALLOW ALL SEALANT TO CURE THOROUGHLY BEFORE APPLYING COATING.
G. PRIME ALL AREAS TO RECEIVE DETAIL COATS FOLLOWING PRIMING INSTRUCTIONS IN SECTION 3.3 A. EXTEND PRIMER 2" BEYOND AREA TO RECEIVE DETAIL COAT TO ALLOW PRIMER TIE-IN DURING COATING APPLICATION
H. APPLY A 6" WIDE STRIPE-COAT OF CCW-501-T COATING 30 MILS THICK CENTERED OVER ALL SEALED CRACKS, HAIRLINE CRACKS, SEALANT CANTS, CONTROL AND COLD JOINTS, AND EXPANSION JOINTS LESS THAN 1" WIDE.
I. ALL REQUIRED METAL AND NEOPRENE FLASHINGS SHALL BE INSTALLED AT THIS TIME. APPLY A STRIPE COAT OF CCW-501-T DETAIL COAT, 30 MILS THICK, 6" WIDE, CENTERED OVER ALL TRANSITIONS FROM CONCRETE TO METAL FLASHINGS AND REINFORCE WITH CCW REINFORCING FABRIC. ALLOW THE STRIPE COAT TO CURE OVER NIGHT (16 HOURS MINIMUM).

3.3 APPLICATION
A. PRIMING:
1. STIR EACH SIDE SEPARATELY TO ENSURE THAT NO SEPARATION HAS OCCURRED THEN MIX ALL OF PART A WITH ALL OF PART B. USE A MIXING PADDLE IN A SLOW SPEED DRILL MOTOR. MIX 2 TO 3 MINUTES UNTIL A HOMOGENOUS BLEND IS ACHIEVED. ALLOW 15 TO 30 MINUTE INDUCTION PERIOD BEFORE APPLYING.
2. APPLY PRIMER AT A RATE OF 400 SQUARE FEET PER GALLON. AVOID PUDDLES OR PONDING THE PRIMER AND DO NOT APPLY PRIMER OVER STRIPE COATS.
3. ALLOW PRIMER TO DRY FOR 1 HOUR MINIMUM, 8 HOURS MAXIMUM. PRIMER IS SUFFICIENTLY DRY WHEN IT IS SOMEWHAT TACKY BUT WILL NOT TRANSFER WHEN TOUCHED. IN THE EVENT COATING IS NOT APPLIED WITHIN THE MAXIMUM TIME, REPRIME.
4. CCW-501 BASE MEMBRANE: APPLY IN ONE UNIFORM COAT AT THE RATE OF ONE GALLON MINIMUM PER 50 SQUARE FEET OR AS NEEDED IN ORDER TO OBTAIN A MINIMUM THICKNESS OF 32 WET MILS. ALLOW THE BASE MEMBRANE TO CURE 16 TO 48 HOURS.
5. CCW-503 TOP COAT: APPLY IN ONE UNIFORM COAT AT THE RATE OF ONE GALLON MINIMUM PER 100 SQUARE FEET OR AS NEEDED IN ORDER TO OBTAIN A MINIMUM THICKNESS OF 16 WET MILS. IMMEDIATELY BROADCAST 30-65 MESH AGGREGATE INTO THE WET MATERIAL AT A RATE OF 8-10 IBS. PER 100 SQUARE FEET AND BACKROLL. ALLOW THE MEMBRANE TO CURE 16 TO 48 HOURS.
B. TRAFFIC ON COATED SURFACE: THE COMPLETED COATING SYSTEM SHALL NOT BE SUBJECT TO ANY TRAFFIC DURING THE FIRST 24 HOURS AFTER APPLICATION IS COMPLETE NOR TO ANY CART OR HEAVY FOOT TRAFFIC DURING THE FIRST 48 HOURS AFTER APPLICATION OF THE FINAL COAT. COOL TEMPERATURES WILL SIGNIFICANTLY INCREASE THE REQUIRED CURE TIME. IF THE WORK OF THE APPLICATOR HAS NOT BEEN APPROVED BY THE PRIME CONTRACTOR DURING THE FIRST 48 HOURS AFTER APPLICATION IS COMPLETE, THEN THERE SHALL BE NO TRAFFIC OF ANY TYPE ALLOWED UNTIL SUCH ACCEPTANCE AND APPROVAL IS GIVEN.

END OF SECTION

SECTION 07240

OUTSULATION MD SYSTEM
EXTERIOR INSULATION AND FINISH SYSTEM
CLASS PB

PART I GENERAL

1.01 SUMMARY
A. THIS DOCUMENT IS TO BE USED IN PREPARING SPECIFICATIONS FOR PROJECTS UTILIZING THE DRYVIT OUTSULATION MD SYSTEM. FOR COMPLETE PRODUCT DESCRIPTION AND USAGE REFER TO:
1. DRYVIT OUTSULATION MD SYSTEM PRODUCT DATA SHEET, DS443.
2. DRYVIT OUTSULATION MD SYSTEM APPLICATION INSTRUCTIONS, DS169.
3. DRYVIT OUTSULATION MD SYSTEM INSTALLATION DETAILS, DS167.
B. RELATED SECTIONS
1. UNIT MASONRY - SECTION 04200
2. CONCRETE - SECTIONS 03300 AND 03400
3. LIGHT GAUGE COLD FORMED STEEL FRAMING - SECTION 05400
4. WOOD FRAMING - SECTION 06100
5. SEALANT - SECTION 07900
6. FLASHING - SECTION 07600

1.02 REFERENCES
A. SECTION INCLUDES
1. ASTM B 117 (FEDERAL TEST STANDARD 141A METHOD 6061) STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS
2. ASTM C 150 STANDARD SPECIFICATION FOR PORTLAND CEMENT
3. ASTM C 297 STANDARD TEST METHOD FOR FLATWISE TENSILE STRENGTH OF SANDWICH CONSTRUCTIONS
4. ASTM C 1177 STANDARD SPECIFICATION FOR GLASS MAT GYPSUM SUBSTRATE FOR USE AS SHEATHING
5. ASTM C 1396 (FORMERLY C 79) STANDARD SPECIFICATION FOR GYPSUM BOARD
6. ASTM D 968 (FEDERAL TEST STANDARD 141A METHOD 6191) STANDARD TEST METHODS FOR ABRASION RESISTANCE OF ORGANIC COATINGS BY FALLING ABRASIVE
7. ASTM D 2247 (FEDERAL TEST STANDARD 141A METHOD 6201) STANDARD PRACTICE FOR TESTING WATER RESISTANCE OF COATINGS IN 100% RELATIVE HUMIDITY
8. ASTM D 3273 STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER
9. ASTM D 4060 STANDARD TEST METHOD FOR ABRASION RESISTANCE OF ORGANIC COATINGS BY THE TABER ABRASER
10. ASTM E 84 STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
11. ASTM E 96 STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
12. ASTM E 119 STANDARD METHOD FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS
13. ASTM E 283 STANDARD TEST METHOD FOR DETERMINING RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS AND DOORS UNDER SPECIFIED PRESSURE DIFFERENCES ACROSS THE SPECIMEN
14. ASTM E 330 TEST METHOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, DOORS AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
15. ASTM E 331 TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS, SKYLIGHTS, DOORS AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
16. ASTM E 2273 TEST METHOD FOR DETERMINING THE DRAINAGE EFFICIENCY OF EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) CLAD WALL ASSEMBLIES
17. ASTM G 155 (FEDERAL TEST STANDARD 141A METHOD 6151) STANDARD PRACTICE FOR OPERATING-XENON ARC LIGHT APPARATUS FOR EXPOSURE OF NONMETALLIC MATERIALS
18. DS131, DRYVIT EXPANDED POLYSTYRENE INSULATION BOARD SPECIFICATION
19. DS151, CUSTOM BRICK™ POLYMER SYSTEM SPECIFICATIONS FOR USE ON VERTICAL WALLS
20. DS152, DRYVIT CLEANING AND RECOATING
21. DS153, DRYVIT EXPANSION JOINTS AND SEALANTS
22. DS159, DRYVIT WATER VAPOR TRANSMISSION
23. DS456, RAPIDRY DM™ 35-50 OR DS457, RAPIDRY DM™ 50-75 DATA SHEETS
24. DS494, DRYVIT AQUAFLASH™ SYSTEM
25. EIMA METHOD 101.01 STANDARD TEST METHOD FOR FREEZE/THAW RESISTANCE OF EXTERIOR INSULATION FINISH SYSTEMS (EIFS), CLASS PB
26. EIMA METHOD 101.86 STANDARD TEST METHOD FOR RESISTANCE OF EXTERIOR INSULATION FINISH SYSTEMS (EIFS), CLASS PB TO THE EFFECTS OF RAPID DEFORMATION (IMPACT)
27. MIL STD E5272 ENVIRONMENTAL TESTING
28. MIL STD 810B ENVIRONMENTAL TEST METHODS
29. NFPA 268 STANDARD TEST METHOD FOR DETERMINING IGNITIBILITY OF EXTERIOR WALL ASSEMBLIES USING A RADIANT HEAT ENERGY SOURCE.
30. NFPA 285 STANDARD METHOD OF TEST FOR THE EVALUATION OF FLAMMABILITY CHARACTERISTICS OF EXTERIOR NON-LOADING-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS USING THE INTERMEDIATE-SCALE, MULTISTORY TEST APPARATUS

1.03 DEFINITIONS
A. BASE COAT: MATERIAL USED TO ENCAPSULATE ONE OR MORE LAYERS OF REINFORCING MESH FULLY EMBEDDED THAT IS APPLIED TO THE OUTSIDE SURFACE OF THE EPS.
B. BUILDING EXPANSION JOINT: A JOINT THROUGH THE ENTIRE BUILDING STRUCTURE DESIGNED TO ACCOMMODATE STRUCTURAL MOVEMENT.
C. CONTRACTOR: THE CONTRACTOR THAT INSTALLS THE OUTSULATION MD SYSTEM TO THE SUBSTRATE.
D. DRYVIT: DRYVIT SYSTEMS, INC., THE MANUFACTURER OF THE OUTSULATION MD SYSTEM, A RHODE ISLAND CORPORATION.
E. EXPANSION JOINT: A STRUCTURAL DISCONTINUITY IN THE OUTSULATION MD SYSTEM.
F. FINISH: AN ACRYLIC-BASED COATING, AVAILABLE IN A VARIETY OF TEXTURES AND COLORS THAT IS APPLIED OVER THE BASE COAT.
G. INSULATION BOARD: EXPANDED POLYSTYRENE (EPS) INSULATION BOARD, WHICH IS AFFIXED TO THE SUBSTRATE.
H. PANEL ERECTOR: THE CONTRACTOR WHO INSTALLS THE PANELIZED OUTSULATION MD SYSTEM.
I. PANEL FABRICATOR: THE CONTRACTOR WHO FABRICATES THE PANELIZED OUTSULATION MD SYSTEM.
J. REINFORCING MESH: GLASS FIBER MESH(ES) USED TO REINFORCE THE BASE COAT AND TO PROVIDE IMPACT RESISTANCE.
K. SHEATHING: A SUBSTRATE IN SHEET FORM.
L. SUBSTRATE: THE MATERIAL TO WHICH THE OUTSULATION MD SYSTEM IS AFFIXED.
M. SUBSTRATE SYSTEM: THE TOTAL WALL ASSEMBLY INCLUDING THE ATTACHED SUBSTRATE TO WHICH THE OUTSULATION MD SYSTEM IS AFFIXED.

1.04 SYSTEM DESCRIPTION
A. GENERAL:THE DRYVIT OUTSULATION MD SYSTEM IS AN EXTERIOR INSULATION AND FINISH SYSTEM (EIFS), CLASS PB, UTILIZING A CAVITY WALL CONCEPT WITH CAPABILITY FOR MOISTURE DRAINAGE. THE SYSTEM CONSISTS OF A WATER-RESISTIVE BARRIER COATING (AIR/WATER-RESISTIVE BARRIER), AN ADHESIVE, GROOVED EXPANDED POLYSTYRENE INSULATION BOARD, INTERNAL VINYL TRACKS (DRYVIT TRACK AND VENT TRACK), DRYVIT VENT ASSEMBLY, DRYVIT STARTER STRIP, BASE COAT, REINFORCING MESH(ES) AND FINISH.
B. METHODS OF INSTALLATION
1. FIELD APPLIED: THE OUTSULATION MD SYSTEM IS APPLIED TO THE SUBSTRATE SYSTEM IN PLACE.
C. DESIGN REQUIREMENTS:
1. ACCEPTABLE SUBSTRATES FOR THE OUTSULATION MD SYSTEM SHALL BE:
A. EXTERIOR GRADE GYPSUM SHEATHING MEETING ASTM C 1396 FORMERLY C 79) REQUIREMENTS FOR WATER RESISTANT CORE OR TYPE X CORE AT THE TIME OF APPLICATION OF THE OUTSULATION MD SYSTEM.
B. EXTERIOR SHEATHING HAVING A WATER-RESISTANT CORE WITH FIBERGLASS MAT FACERS MEETING ASTM C 1177.
D. CEMENT PLASTER, CONCRETE OR MASONRY.
1. DEFLECTION OF THE SUBSTRATE SYSTEMS SHALL NOT EXCEED 1/240 TIMES THE SPAN.
2. THE SUBSTRATE SHALL BE FLAT WITHIN 6.4 MM (1/4 IN) IN A 1.2 M (4 FT) RADIUS.
3. THE SLOPE OF INCLINED SURFACES SHALL NOT BE LESS THAN 6:12, AND THE LENGTH SHALL NOT EXCEED 305 MM
(12 IN).
4. ALL AREAS REQUIRING AN IMPACT RESISTANCE CLASSIFICATION HIGHER THAN "STANDARD", AS DEFINED BY EIMA STANDARD 101.86, SHALL BE REINFORCED AS RECOMMENDED BY MANUFACTURER.
7. EXPANSION JOINTS:
A. DESIGN AND LOCATION OF EXPANSION JOINTS IN THE OUTSULATION MD SYSTEM SHALL BE AS A MINIMUM PLACED AT THE FOLLOWING LOCATIONS:
1) WHERE EXPANSION JOINTS OCCUR IN THE SUBSTRATE SYSTEM.
2) WHERE BUILDING EXPANSION JOINTS OCCUR.
3) AT FLOOR LINES IN WOOD FRAME CONSTRUCTION.
4) AT FLOOR LINES OF NON-WOOD FRAMED BUILDINGS WHERE SIGNIFICANT MOVEMENT IS EXPECTED.
5) WHERE THE OUTSULATION MD SYSTEM ABUTS DISSIMILAR MATERIALS.
6) WHERE THE SUBSTRATE TYPE CHANGES.
7) WHERE PREFABRICATED PANELS ABUT ONE ANOTHER.
8) IN CONT. ELEVATIONS AT INTERVALS NOT EXCEEDING 23 M (75 FT).
9) WHERE SIGNIFICANT STRUCTURAL MOVEMENT OCCURS, SUCH AS CHANGES IN ROOF LINE, BUILDING SHAPE OR STRUCTURAL SYSTEM.
8. TERMINATIONS
A. PRIOR TO APPLYING THE DRYVIT OUTSULATION MD SYSTEM, WALL OPENINGS SHALL BE TREATED WITH DRYVIT AQUAFLASH SYSTEM OR FLASHING TAPE. REFER TO DRYVIT OUTSULATION MD INSTALLATION DETAILS (DS167).
B. THE OUTSULATION MD SYSTEM SHALL BE HELD BACK FROM ADJOINING MATERIALS AROUND OPENINGS AND PENETRATIONS SUCH AS WINDOWS, DOORS, AND MECHANICAL EQUIPMENT A MINIMUM OF 19 MM (3/4 IN) FOR SEALANT APPLICATION. SEE DRYVIT'S OUTSULATION MD SYSTEM INSTALLATION DETAILS, DS167.
C. THE SYSTEM SHALL BE TERMINATED A MINIMUM OF 200 MM (8 IN) ABOVE FINISHED GRADE.
D. SEALANTS
1) SHALL BE MANUFACTURED AND SUPPLIED BY OTHERS.
2) SHALL BE COMPATIBLE WITH THE OUTSULATION MD SYSTEM MATERIALS. REFER TO CURRENT DRYVIT PUBLICATION DS153 FOR LISTING OF SEALANTS TESTED BY SEALANT MANUFACTURER FOR COMPATIBILITY.
3) THE SEALANT BACKER ROD SHALL BE CLOSED CELL.
9. VAPOR RETARDERS - THE USE AND LOCATION OF VAPOR RETARDERS WITHIN A WALL ASSEMBLY SHALL COMPLY WITH LOCAL BUILDING CODE REQUIREMENTS. REFER TO DRYVIT PUBLICATION DS159 FOR ADDITIONAL INFORMATION.
D. PERFORMANCE REQUIREMENTS
1. THE OUTSULATION MD SYSTEM SHALL HAVE BEEN TESTED AS FOLLOWS:
A. AIR/WATER-RESISTIVE BARRIER COATING

TEST METHOD CRITERIA RESULTS
TENSILE BOND ASTM C 297ICC ES (AC 212)*

MINIMUM 104 KPA (15 PSI) SUBSTRATE:MINIMUM 131 KPA (19 PSI)FLASHING:MINIMUM 2970 KPA (431 PSI)

FREEZE-THAW ICC-ES PROCEDUREICC ES (AC 212)* NO DELETERIOUS EFFECTS AFTER 10 CYCLES PASSED - NO DELETERIOUS EFFECTS AFTER 10 CYCLES

MOISTURE RESISTANCE ASTM D 2247ICC ES (AC 212)*NO DELETERIOUS EFFECTS AFTER 14 DAYS EXPOSURE NO DELETERIOUS EFFECTS AFTER14 DAYS EXPOSURE

WATER VAPOR TRANSMISSION ASTM E 96 PROC. BICC ES (AC 212)*VAPOR PERMEABLE 7 PERMS

AA C000606
HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
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TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET
A10.1
OF

AIR LEAKAGE ASTM E 283 LESS THAN 0.3 L/MIN/M2(0.001 CFM/FT2)
STRUCTURAL PERFORMANCE ASTM E 1233 PROC. AICC ES (AC 212)* MINIMUM 10 POSITIVE CYCLES AT 1/240 DEFLECTION;

NO CRACKING IN FIELD, AT JOINTS OR INTERFACE WITH FLASHING PASSED RACKING ASTM E 72ICC ES (AC 212)* NO CRACKING IN FIELD, AT JOINTS OR INTERFACE WITH FLASHING AT NET DEFLECTION OF 3.2 MM(1/8 INCH)PASSED RESTRAINED ENVIRONMENTAL ICC-ES PROCEDUREICC ES (AC 212)* 5 CYCLES; NO CRACKING IN FIELD, AT JOINTS OR INTERFACE WITH FLASHING PASSED WATER PENETRATION ASTM E 331ICC ES (AC 212)* NO WATER PENETRATION BEYOND THE INNER-MOST PLANE OF THE WALL AFTER 15 MINUTES AT137 PA (2.86 PSF) PASSED
*AC 212 - ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING

B. DURABILITY

TEST METHOD CRITERIA RESULTS
ABRASION RESISTANCE ASTM D 968 NO DELETERIOUS EFFECTS AFTER 500 LITERS(528 QUARTS) NO DELETERIOUS EFFECTS AFTER 1000 LITERS(1056 QUARTS)

ACCELERATED WEATHERING ASTM G 155 CYCLE 1 NO DELETERIOUS EFFECTS AFTER 2000 HOURS NO DELETERIOUS EFFECTS AFTER 5000 HOURS

ASTM G 154 CYCLE 1 (QUV) NO DELETERIOUS EFFECTS AFTER 5000 HOURS

FREEZE-THAW EIMA 101.01 NO DELETERIOUS EFFECTS AFTER 60 CYCLES
PASSED - NO DELETERIOUS EFFECTS AFTER 90 CYCLES
ASTM C 67 MODIFIED NO DELETERIOUS EFFECTS AFTER 60 CYCLES
PASSED - NO DELETERIOUS EFFECTS AFTER 60 CYCLES
ICC-ES PROCEDURE NO DELETERIOUS EFFECTS AFTER 10 CYCLES
PASSED - NO DELETERIOUS EFFECTS AFTER 10 CYCLES

MILDEW RESISTANCE ASTM D 3273NO GROWTH DURING 28 DAY EXPOSURE PERIOD NO GROWTH DURING 60 DAY EXPOSURE PERIOD
MOISTURE RESISTANCE ASTM D 2247 NO DELETERIOUS EFFECTS AFTER 14 DAYS EXPOSURENO DELETERIOUS EFFECTS AFTER 42 DAYS EXPOSURE

TABER ABRASION ASTM D 4060 N/A PASSED 1000 CYCLES
SALT SPRAY RESISTANCE ASTM B 117 NO DELETERIOUS EFFECTS AFTER 300 HOURS EXPOSURE NO DELETERIOUS EFFECTS AFTER 1000 HOURS EXPOSURE

WATER PENETRATION ASTM E 331ICC ES (AC 235***) NO WATER PENETRATION BEYOND THE INNER-MOST PLANE OF THE WALL AFTER15 MINUTES AT 137 PA(2.86 PSF) PASSED 15 MINUTES AT137 PA (2.86 PSF) WATER VAPOR TRANSMISSION ASTM E 96 PROCEDURE B VAPOR PERMEABLE EPS 5 PERM-INCHBASE COAT* 40 PERMSFINISH** 40 PERMS

DRAINAGE EFFICIENCYASTM E 2273ICC ES (AC 235)*** MINIMUM DRAINAGE EFFICIENCY OF 90% PASSED
* BASE COAT PERM VALUE BASED ON DRYVIT GENESIS®** FINISH PERM VALUE BASED ON DRYVIT QUARZPUTZ*** AC 235 - ACCEPTANCE CRITERIA FOR EIFS CLAD DRAINAGE WALL ASSEMBLIES

C. STRUCTURAL

TEST TEST METHOD CRITERIA RESULTS
TENSILE BOND ASTM C 297 MINIMUM 104 KPA (15 PSI) - SUBSTRATE OR INSULATION FAILURE MINIMUM 213.6 KPA (31 PSI)
TRANSVERSE WIND LOAD ASTM E 330 WITHSTAND POSITIVE AND NEGATIVE WIND LOADS AS SPECIFIED BY THE BUILDING CODE MINIMUM 4.3 KPA (90 PSF)*16 INCH O.C. FRAMING, ½ IN SHEATHING SCREW ATTACHED AT 203 MM (8 INCH) O.C.
* ALL DRYVIT COMPONENTS REMAIN INTACT - FOR HIGHER WIND LOADS CONTACT DRYVIT SYSTEMS, INC.

D. IMPACT RESISTANCE: IN ACCORDANCE WITH EIMA STANDARD 101.86:

reinforcing mesh/weight g/m² (oz/yd²) minimum tensile strengths eima impact classificationeima impact rangejoules (in-lbs) impact test resultsjoules (in-lbs)
standard - 146 (4.3) 27 g/cm (150 lbs/in) standard 3-6 (25-49) 4 (36)
standard plustm - 203 (6) 36 g/cm (200 lbs/in). medium 6-10 (50-89) 6 (56)
intermediateâ - 407 (12) 54 g/cm (300 lbs/in). high 10-17 (90-150) 12 (108)
panzer® 15* - 509 (15) 71 g/cm (400 lbs/in). ultra high >17 (>150)18 (162)
panzer 20* - 695 (20.5) 98 g/cm (550 lbs/in). ultra high >17 (>150)40 (352)
detailâ short rolls - 146 (4.3) 27 g/cm (150 lbs/in). n/a n/a n/a n/a n/a
corner mesh™ - 244 (7.2)49 g/cm (274 lbs/in). n/a n/a n/a n/a n/a
*shall be used in conjunction with standard mesh (recommended for areas exposed to high traffic).

E. FIRE PERFORMANCE
TEST METHOD CRITERIA RESULTS
FIRE RESISTANCE ASTM E 119 NO EFFECT ON THE FIRE RESISTANCE RATING OF A RATED WALL ASSEMBLY PASSED 1 HOUR IGNITABILITY NFPA 268NO IGNITION AT 12.5 KW/M2 AT20 MINUTES PASSED

INTERMEDIATE MULTI-STORY FIRE TEST NFPA 285 (UBC 26-9)

1. RESIST FLAME PROPAGATION OVER THE EXTERIOR SURFACE
2. RESIST VERTICAL SPREAD OF FLAME WITHIN COMBUSTIBLE CORE/COMPONENT OF PANEL FROM ONE STORY TO THE NEXT
3. RESIST VERTICAL SPREAD OF FLAME OVER THE INTERIOR SURFACE FROM ONE STORY TO THE NEXT
4. RESIST LATERAL SPREAD OF FLAME FROM THE COMPARTMENT OF FIRE ORIGIN TO ADJACENT SPACES PASSED

2. THE OUTSULATION MD COMPONENTS SHALL BE TESTED FOR:
A. FIRE TEST TEST METHOD CRITERIA RESULTS FLAME SPREAD ASTM E 84 ALL COMPONENTS SHALL HAVE A:FLAME SPREAD < 25 SMOKE DEVELOPED < 450 PASSED

B. DURABILITY

TEST TEST METHOD CRITERIA RESULTS
REINFORCING MESHALKALI RESISTANCE OF REINFORCING MESH ASTM E 2098 (FORMERLY EIMA 105.01) > 21DN/CM (120 PLI) RETAINED TENSILE STRENGTH AFTER EXPOSURE PASSED
EPS (PHYSICAL PROPERTIES)DENSITYTHERMAL RESISTANCEWATER ABSORPTIONOXYGEN INDEXCOMPRESSIVE STRENGTHFLEXURAL STRENGTHFLAME SPREADSMOKE DEVELOPED ASTM C 303, D 1622ASTM C 177, C 518ASTM C 272ASTM D 2863ASTM D 1621 PROC. AASTM C 203ASTM E 84 15.2-20.0 KG/M3 (0.95-1.25 LB/FT3) 4.0 @ 4.4 °C (40 °F)3.6 @ 23.9 °C (75 °F)2.5 % MAX. BY VOLUME24% MIN. BY VOLUME69 KPA (10 PSI) MIN.172 KPA (25 PSI) MIN.25 MAX.450 MAX.PASS

1.05 SUBMITTALS
A. PRODUCT DATA: THE CONTRACTOR SHALL SUBMIT TO THE OWNER/ARCHITECT THE MANUFACTURER'S PRODUCT DATA SHEETS DESCRIBING PRODUCTS, WHICH WILL BE USED ON THIS PROJECT.
B. SHOP DRAWINGS FOR PANELIZED CONSTRUCTION: THE PANEL FABRICATOR SHALL PREPARE AND SUBMIT TO THE OWNER/ARCHITECT COMPLETE DRAWINGS SHOWING: WALL LAYOUT, CONNECTIONS, DETAILS, EXPANSION JOINTS, AND INSTALLATION SEQUENCE.
C. SAMPLES: THE CONTRACTOR SHALL SUBMIT TO THE OWNER/ARCHITECT TWO (2) SAMPLES OF THE OUTSULATION MD SYSTEM FOR EACH FINISH, TEXTURE AND COLOR TO BE USED ON THE PROJECT. THE SAME TOOLS AND TECHNIQUES PROPOSED FOR THE ACTUAL INSTALLATION SHALL BE USED. SAMPLES SHALL BE OF SUFFICIENT SIZE TO ACCURATELY REPRESENT EACH COLOR AND TEXTURE BEING UTILIZED ON THE PROJECT.
D. TEST REPORTS: WHEN REQUESTED, THE CONTRACTOR SHALL SUBMIT TO THE OWNER/ARCHITECT COPIES OF SELECTED TEST REPORTS VERIFYING THE PERFORMANCE OF THE OUTSULATION MD SYSTEM.

1.06 QUALITY ASSURANCE
A. QUALIFICATIONS
1. SYSTEM MANUFACTURER: SHALL BE DRYVIT SYSTEMS, INC. ALL MATERIALS SHALL BE MANUFACTURED OR SOLD BY DRYVIT AND SHALL BE PURCHASED FROM DRYVIT OR ITS AUTHORIZED DISTRIBUTORS.
A. MATERIALS SHALL BE MANUFACTURED AT A FACILITY COVERED BY A CURRENT ISO 9001:2000 CERTIFICATION. CERTIFICATION OF THE FACILITY SHALL BE DONE BY A REGISTRAR ACCREDITED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, REGISTRAR ACCREDITATION BOARD (ANSI-RAB).
2. CONTRACTOR: SHALL BE KNOWLEDGEABLE IN THE PROPER INSTALLATION OF THE DRYVIT OUTSULATION MD SYSTEM AND SHALL BE EXPERIENCED AND COMPETENT IN THE INSTALLATION OF EXTERIOR INSULATION AND FINISH SYSTEMS. ADDITIONALLY, THE CONTRACTOR SHALL POSSESS A CURRENT OUTSULATION MD SYSTEM TRAINED CONTRACTOR CERTIFICATE* ISSUED BY DRYVIT SYSTEMS, INC.
3. INSULATION BOARD MANUFACTURER: SHALL BE LISTED BY DRYVIT SYSTEMS, INC., SHALL BE CAPABLE OF PRODUCING THE EXPANDED POLYSTYRENE (EPS) IN ACCORDANCE WITH THE CURRENT DRYVIT SPECIFICATION FOR INSULATION BOARD, DS131, AND SHALL SUBSCRIBE TO THE DRYVIT THIRD PARTY CERTIFICATION AND QUALITY ASSURANCE PROGRAM.
4. PANEL FABRICATOR: SHALL BE A CONTRACTOR EXPERIENCED AND COMPETENT IN THE FABRICATION OF ARCHITECTURAL WALL PANELS AND SHALL POSSESS A CURRENT OUTSULATION PLUS SYSTEM TRAINED CONTRACTOR CERTIFICATE* ISSUED BY DRYVIT SYSTEMS, INC.
5. PANEL ERECTOR: SHALL BE EXPERIENCED AND COMPETENT IN THE INSTALLATION OF ARCHITECTURAL WALL PANEL SYSTEMS AND SHALL BE:
A. THE PANEL FABRICATOR OR
B. AN ERECTOR APPROVED BY THE PANEL FABRICATOR OR
C. AN ERECTOR UNDER THE DIRECT SUPERVISION OF THE PANEL FABRICATOR
B. REGULATORY REQUIREMENTS:
1. THE EPS SHALL BE SEPARATED FROM THE INTERIOR OF THE BUILDING BY A MINIMUM 15-MINUTE THERMAL BARRIER.
2. THE USE AND MAXIMUM THICKNESS OF EPS SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES.
C. CERTIFICATION
1. THE OUTSULATION MD SYSTEM SHALL BE RECOGNIZED FOR THE INTENDED USE BY THE APPLICABLE BUILDING CODE(S).
D. MOCK-UP
1. THE CONTRACTOR SHALL, BEFORE THE PROJECT COMMENCES, PROVIDE THE OWNER/ARCHITECT WITH A MOCK-UP FOR APPROVAL.
2. THE MOCK-UP SHALL BE OF SUITABLE SIZE AS REQUIRED TO ACCURATELY REPRESENT THE PRODUCTS BEING INSTALLED, AS WELL AS EACH COLOR AND TEXTURE TO BE UTILIZED ON THE PROJECT.
3. THE MOCK-UP SHALL BE PREPARED WITH THE SAME PRODUCTS, TOOLS, EQUIPMENT AND TECHNIQUES REQUIRED FOR THE ACTUAL APPLICATIONS. THE FINISH USED SHALL BE FROM THE SAME BATCH THAT IS BEING USED ON THE PROJECT.
4. THE APPROVED MOCK-UP SHALL BE AVAILABLE AND MAINTAINED AT THE JOBSITE.
5. FOR PANELIZED CONSTRUCTION, THE MOCK-UP SHALL BE AVAILABLE AND MAINTAINED AT THE PANEL FABRICATION LOCATION.

1.07 DELIVERY, STORAGE AND HANDLING
A. ALL DRYVIT MATERIALS SHALL BE DELIVERED TO THE JOB SITE IN THE ORIGINAL, UNOPENED PACKAGES WITH LABELS INTACT.
B. UPON ARRIVAL, MATERIALS SHALL BE INSPECTED FOR PHYSICAL DAMAGE, FREEZING OR OVERHEATING. QUESTIONABLE MATERIALS SHALL NOT BE USED.
1. MATERIALS SHALL BE STORED AT THE JOBSITE IN A COOL, DRY LOCATION, OUT OF DIRECT SUNLIGHT, PROTECTED FROM WEATHER AND OTHER SOURCES OF DAMAGE. MINIMUM STORAGE TEMPERATURE SHALL BE AS FOLLOWS:
A. DEMANDIT®, REVYVIT®: 7 °C (45 °F)
B. AMERISTONE™, TERRANEO® AND LYMESTONE™: 10 °C (50 °F)
C. DPR, PMR™ AND E™ FINISHES, COLOR PRIME™, PRIMUS®, GENESIS AND NCB™: 4 °C (40 °F)
D. CUSTOM BRICK™ FINISH: REFER TO CUSTOM BRICK POLYMER SPECIFICATION, DS151.
E. FOR OTHER PRODUCTS, REFER TO SPECIFIC PRODUCT DATA SHEETS.
2. MAXIMUM STORAGE TEMPERATURE SHALL NOT EXCEED 38 °C (100 °F). NOTE: MINIMIZE EXPOSURE OF MATERIALS TO TEMPERATURES OVER 32 °C (90 °
F. FINISHES EXPOSED TO TEMPERATURES OVER 43 °C (110 °F) FOR EVEN SHORT PERIODS MAY EXHIBIT SKINNING, INCREASED VISCOSITY AND SHOULD BE INSPECTED PRIOR TO USE.
C. PROTECT ALL PRODUCTS FROM INCLEMENT WEATHER AND DIRECT SUNLIGHT.

1.08 PROJECT CONDITIONS
A. ENVIRONMENTAL REQUIREMENTS
1.APPLICATION OF WET MATERIALS SHALL NOT TAKE PLACE DURING INCLEMENT WEATHER UNLESS APPROPRIATE PROTECTION IS PROVIDED. PROTECT MATERIALS FROM INCLEMENT WEATHER UNTIL THEY ARE COMPLETELY DRY.
2. AT THE TIME OF APPLICATION, THE MINIMUM AIR AND WALL SURFACE TEMPERATURES SHALL BE AS FOLLOWS:
A. DEMANDIT®, REVYVIT®: 7 °C (45 °F)
B. AMERISTONE™, TERRANEO® AND LYMESTONE™: 10 °C (50 °F)
C. DPR, PMR AND E™ FINISHES, COLOR PRIME™, PRIMUS®, GENESIS AND NCB™: 4 °C (40 °F)
D. CUSTOM BRICK™ FINISH: REFER TO CUSTOM BRICK POLYMER SPECIFICATION, DS151.
E. FOR OTHER PRODUCTS, REFER TO SPECIFIC PRODUCT DATA SHEETS.
3. THESE TEMPERATURES SHALL BE MAINTAINED WITH ADEQUATE AIR VENTILATION AND CIRCULATION FOR A MINIMUM OF 24 HOURS (48 HOURS FOR AMERISTONE, TERRANEO AND LYMESTONE) THEREAFTER, OR UNTIL THE PRODUCTS ARE COMPLETELY DRY. REFER TO PUBLISHED PRODUCT DATA SHEETS FOR MORE SPECIFIC INFORMATION.
B. EXISTING CONDITIONS: THE CONTRACTOR SHALL HAVE ACCESS TO ELECTRIC POWER, CLEAN WATER AND A CLEAN WORK AREA AT THE LOCATION WHERE THE DRYVIT MATERIALS ARE TO BE APPLIED.

1.09 SEQUENCING AND SCHEDULING
A. INSTALLATION OF THE OUTSULATION MD SYSTEM SHALL BE COORDINATED WITH OTHER CONSTRUCTION TRADES.
B. SUFFICIENT MANPOWER AND EQUIPMENT SHALL BE EMPLOYED TO ENSURE A CONTINUOUS OPERATION, FREE OF COLD JOINTS, SCAFFOLD LINES, TEXTURE VARIATIONS, ETC.

1.10 WARRANTY
A. DRYVIT SYSTEMS, INC. SHALL PROVIDE A WRITTEN MOISTURE DRAINAGE AND LIMITED MATERIALS WARRANTY AGAINST DEFECTIVE MATERIAL UPON WRITTEN REQUEST. DRYVIT SHALL MAKE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED. DRYVIT DOES NOT WARRANT WORKMANSHIP. FULL DETAILS ARE AVAILABLE FROM DRYVIT SYSTEMS, INC.
B. THE APPLICATOR SHALL WARRANT WORKMANSHIP SEPARATELY. DRYVIT SHALL NOT BE RESPONSIBLE FOR WORKMANSHIP ASSOCIATED WITH INSTALLATION OF THE OUTSULATION MD SYSTEM.

1.11 DESIGN RESPONSIBILITY
A. IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE IF A PRODUCT IS SUITABLE FOR ITS INTENDED USE. THE DESIGNER SELECTED BY THE PURCHASER SHALL BE RESPONSIBLE FOR ALL DECISIONS PERTAINING TO DESIGN, DETAIL, STRUCTURAL CAPABILITY, ATTACHMENT DETAILS, SHOP DRAWINGS AND THE LIKE. DRYVIT HAS PREPARED GUIDELINES IN THE FORM OF SPECIFICATIONS, INSTALLATION DETAILS, AND PRODUCT SHEETS TO FACILITATE THE DESIGN PROCESS ONLY.

1.12 MAINTENANCE
A. MAINTENANCE AND REPAIR SHALL FOLLOW THE PROCEDURES NOTED IN THE DRYVIT OUTSULATION MD SYSTEM APPLICATION INSTRUCTIONS, DS169.
B. ALL DRYVIT PRODUCTS ARE DESIGNED TO MINIMIZE MAINTENANCE. HOWEVER, AS WITH ALL BUILDING PRODUCTS, DEPENDING ON LOCATION, SOME CLEANING MAY BE REQUIRED. SEE DRYVIT PUBLICATION DS152 ON CLEANING AND RECOATING.
C. SEALANTS AND FLASHINGS SHALL BE INSPECTED ON A REGULAR BASIS AND REPAIRS MADE AS NECESSARY.

PART II
PRODUCTS

2.01 MANUFACTURER
A. ALL COMPONENTS OF THE OUTSULATION MD SYSTEM SHALL BE SUPPLIED OR OBTAINED FROM DRYVIT OR ITS AUTHORIZED DISTRIBUTORS. SUBSTITUTIONS OR ADDITIONS OF MATERIALS OTHER THAN SPECIFIED WILL VOID THE WARRANTY.

2.02 MATERIALS
A. PORTLAND CEMENT: SHALL BE TYPE I, I-II OR II, MEETING ASTM C 150, WHITE OR GRAY IN COLOR, FRESH AND FREE OF LUMPS.
B. WATER: SHALL BE CLEAN AND FREE OF FOREIGN MATTER.

2.03 COMPONENTS
A. AIR/WATER-RESISTIVE BARRIER COMPONENTS
1. DRYVIT BACKSTOP® NT: A FLEXIBLE, POLYMER-BASED, NONCEMENTITIOUS WATER-RESISTIVE COATING AVAILABLE IN TEXTURE AND SMOOTH.
2. DRYVIT GRID TAPE™: AN OPEN WEAVE FIBERGLASS MESH TAPE WITH PRESSURE SENSITIVE ADHESIVE AVAILABLE IN ROLLS 100 MM (4 IN) WIDE BY 91 M (100 YDS) LONG.

B. FLASHING MATERIALS: USED TO PROTECT SUBSTRATE EDGES AT TERMINATIONS.
1. LIQUID APPLIED: AN EXTREMELY FLEXIBLE WATER-BASED POLYMER MATERIAL, READY FOR USE.
A. SHALL BE AQUAFLASH AND AQUAFLASH MESH
2. SHEET TYPE:
A. SHALL BE FLASHING TAPE AND SURFACE CONDITIONER
1) DRYVIT FLASHING TAPE™: A HIGH DENSITY, POLYETHYLENE FILM BACKED WITH A RUBBERIZED ASPHALT ADHESIVE AVAILABLE IN ROLLS 100 MM (4 IN), 152 MM (6 IN) AND 230 MM (9 IN) WIDE BY 23 M (75 FT) LONG..
2) DRYVIT FLASHING TAPE SURFACE CONDITIONER™: A WATER-BASED SURFACE CONDITIONER AND ADHESION PROMOTER FOR THE DRYVIT FLASHING TAPE.
C. DRYVIT AP ADHESIVE™: A MOISTURE CURE URETHANE-BASED ADHESIVE USED TO ATTACH THE DRYVIT TRACK AND VENT TRACK TO THE BACKSTOP NT.
D. DRYVIT TRACK: A "J" SHAPED TRACK COMPLYING WITH ASTM D 1784 AND ASTM C 1063 LOCATED ABOVE THE DRYVIT STARTER STRIP.
E. DRYVIT VENT TRACK: A "J" SHAPED TRACK COMPLYING WITH ASTM D 1784 AND ASTM C 1063 CONTAINING A SLOT FOR DRAINAGE AND LOCATED ABOVE THE DRYVIT VENT ASSEMBLY, ALONG THE BASE OF WALLS AND HORIZONTAL TERMINATIONS.
F. ADHESIVES: USED TO ADHERE THE EPS TO THE AIR/WATER-RESISTIVE BARRIER, SHALL BE COMPATIBLE WITH THE WATER-RESISTIVE BARRIER AND THE EPS.
1. CEMENTITIOUS: A LIQUID POLYMER-BASED MATERIAL, WHICH IS FIELD MIXED WITH PORTLAND CEMENT.
A. SHALL BE PRIMUS OR GENESIS
2. READY MIXED: A DRY BLEND CEMENTITIOUS, COPOLYMER-BASED PRODUCT, FIELD MIXED WITH WATER.
A. SHALL BE PRIMUS® DM, GENESIS® DM, GENESIS® DMS, RAPIDRY DM 35-50 OR RAPIDRY DM 50-75
G. INSULATION BOARD: EXPANDED POLYSTYRENE MEETING DRYVIT SPECIFICATION FOR INSULATION BOARD, DS131
1. THICKNESS OF INSULATION BOARD SHALL BE MIN 50 MM (2 IN).
2. THE BACK SIDE OF THE INSULATION BOARD SHALL HAVE 6 MM X 25 MM (1/4 IN X 1 IN) GROOVES RUNNING VERTICALLY AND SPACED 305 MM (12 IN) ON CENTER.
3. THE INSULATION BOARD SHALL BE MANUFACTURED BY A BOARD SUPPLIER LISTED BY DRYVIT SYSTEMS, INC.
H. INSULATION BOARD CLOSURE BLOCKS: EXPANDED POLYSTYRENE MEETING DRYVIT SPECIFICATION FOR INSULATION BOARD, DS131. THE CLOSURE BLOCKS SHALL MEASURE A MINIMUM OF 0.15 M (6 IN) IN HEIGHT.
I. DRYVIT STARTER STRIP: EXPANDED POLYSTYRENE MEETING DRYVIT SPECIFICATION FOR INSULATION BOARD, DS131. THE DRYVIT STARTER STRIP SHALL MEASURE 0.15 M (6 IN) IN HEIGHT AND BE CONFIGURED TO RECEIVE THE DRYVIT TRACK AND VENT TRACK.
J. DRYVIT VENT ASSEMBLY: A 50 MM X 150 MM X 305 MM (2 IN X 6 IN X 12 IN) PIECE OF AGED EXPANDED POLYSTYRENE, WHICH IS CONFIGURED TO CONTAIN A FORMED AGGREGATE MATRIX MATERIAL AND RECEIVE THE DRYVIT VENT TRACK. IT IS REQUIRED AT THE BASE OF WALLS AND THE BASE OF HORIZONTAL TERMINATIONS AND IS CAPABLE OF DRAINING WATER.
K. BASE COAT: SHALL BE COMPATIBLE WITH THE EPS INSULATION BOARD AND REINFORCING MESH(ES).
1. CEMENTITIOUS: A LIQUID POLYMER-BASED MATERIAL, WHICH IS FIELD MIXED WITH PORTLAND CEMENT.
A. SHALL BE PRIMUS OR GENESIS
2. NONCEMENTITIOUS: A FACTORY-MIXED, FULLY FORMULATED, WATER-BASED PRODUCT.
A. SHALL BE NCB
3. READY MIXED: A DRY BLEND CEMENTITIOUS, COPOLYMER-BASED PRODUCT, FIELD MIXED WITH WATER.
A. SHALL BE PRIMUS DM, GENESIS DM, GENESIS DMS, RAPIDRY DM 35-50 OR RAPIDRY DM 50-75.
L. REINFORCING MESH: A BALANCED, OPEN WEAVE, GLASS FIBER FABRIC TREATED FOR COMPATIBILITY WITH OTHER SYSTEM MATERIALS. NOTE: REINFORCING MESHES ARE CLASSIFIED BY IMPACT RESISTANCE AND SPECIFIED BY WEIGHT AND TENSILE STRENGTH AS LISTED IN SECTION

1.04.D.1.D.
1. SHALL BE STANDARD, STANDARD PLUS, INTERMEDIATE, PANZER 15, PANZER 20, DETAIL AND CORNER MESH
M. FINISH: SHALL BE THE TYPE, COLOR AND TEXTURE AS SELECTED BY THE ARCHITECT/OWNER AND SHALL BE ONE OR MORE OF THE FOLLOWING:
1. STANDARD DPR (DIRT PICKUP RESISTANCE): WATER-BASED, ACRYLIC COATING WITH INTEGRAL COLOR AND TEXTURE, AND FORMULATED WITH DPR CHEMISTRY:
A. QUARZPUTZ® DPR: OPEN-TEXTURE.
B. SANDBLAST® DPR: MEDIUM TEXTURE.
C. FREESTYLE® DPR: FINE TEXTURE.
D. SANDPEBBLE® DPR: PEBBLE TEXTURE.
E. SANDPEBBLE® FINE DPR: FINE PEBBLE TEXTURE.

2. E: WATER-BASED, LIGHTWEIGHT ACRYLIC COATING WITH INTEGRAL COLOR AND TEXTURE, AND FORMULATED WITH DPR CHEMISTRY:
A. QUARZPUTZ® E
B. SANDPEBBLE® E
C. SANDPEBBLE® FINE E
3. SPECIALTY: FACTORY MIXED, WATER-BASED ACRYLIC:
A. AMERISTONE: MULTI-COLORED QUARTZ AGGREGATE WITH A FLAMED GRANITE APPEARANCE.
B. STONE MIST®: CERAMICALLY COLORED QUARTZ AGGREGATE.
C. CUSTOM BRICK: ACRYLIC POLYMER-BASED FINISH USED IN CONJUNCTION WITH A PROPRIETARY TEMPLATE SYSTEM TO CREATE THE LOOK OF STONE, BRICK, SLATE OR TILE.
D. TERRANEO: 100% ACRYLIC-BASED FINISH WITH LARGE MICA CHIPS AND MULTI-COLORED QUARTZ AGGREGATES.
E. LYMESTONE: A PREMIXED, 100% ACRYLIC-BASED FINISH DESIGNED TO REPLICATE THE APPEARANCE OF LIMESTONE BLOCKS.
4. ELASTOMERIC DPR (DIRT PICKUP RESISTANCE): WATER-BASED, ELASTOMERIC ACRYLIC

SECTION 07271

MODIFIED BITUMINOUS SHEET AIR BARRIERS

PART 1
GENERAL

1.1 SECTION INCLUDES:
INSTALLATION OF MODIFIED BITUMINOUS SHEET AIR BARRIER ON STANDARD BUILDING EXTERIOR GRADE SURFACES ON ALL EXTERIOR WINDOWS AND DOORS, CONSISTING OF PREPARATION OF EXISTING AND REPAIRED EXTERIOR GRADE SURFACES, SEALING OF CRACKS, SEAMS, JOINTS AND APPLICATION OF CCW-705, A VAPOR-IMPERMEABLE, SELF-ADHERED, MODIFIED BITUMINOUS SHEET AIR BARRIER.

1.2 RELATED SECTIONS:
A. SECTION 03300 - CAST-IN-PLACE CONCRETE
B. SECTION 04200 - MASONRY
C. SECTION 07200 - INSULATION; VAPOR BARRIER
D. SECTION 07410 - METAL PANEL SYSTEMS
E. SECTION 07900 - JOINT SEALERS
F. SECTION 08100 - DOOR FRAMES
G. SECTION 08500 - WINDOW FRAMES
H. SECTION 09200 - GYPSUM BOARD

1.3 REFERENCES:
A. ASTM D 412 TESTS FOR RUBBER PROPERTIES IN TENSION.
B. ASTM E 154 PUNCTURE RESISTANCE
C. ASTM E 96(B) WATER VAPOR TRANSMISSION OF MATERIALS.
D. ASTM E 283 TESTS FOR AIR LEAKAGE THROUGH EXTERIOR ASSEMBLIES.
E. ASTM E 331 TESTS FOR WATER PENETRATION OF EXTERIOR ASSEMBLIES.
F. ASTM E 2178 TEST FOR AIR PERMEANCE RATING.

1.4 SYSTEM DESCRIPTION:
CCW-705
PRODUCT PROVIDED BY THIS SECTION IS A SELF-ADHESIVE MEMBRANE OF NOT LESS THAN 40 MILS THICKNESS, CONSISTING OF 36 MIL RUBBERIZED ASPHALT MEMBRANE LAMINATED TO A 4 MIL, CROSS LAMINATED HIGH DENSITY POLYETHYLENE FILM.

1.5 SUBMITTALS:
A. SUBCONTRACTOR APPROVAL BY MANUFACTURER: SUBMIT DOCUMENT STATING MANUFACTURER'S ACCEPTANCE OF SUBCONTRACTOR AS AN APPROVED APPLICATOR FOR THE SPECIFIED MATERIALS.
B. WARRANTY: SUBMIT A SAMPLE WARRANTY IDENTIFYING THE TERMS AND CONDITIONS STATED IN SECTION 1.7.

1.6 QUALITY ASSURANCE:
A. APPLICATOR QUALIFICATIONS: APPLICATOR SHALL BE EXPERIENCED IN APPLYING THE SAME OR SIMILAR MATERIALS AND SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE MEMBRANE MANUFACTURER.
B. REGULATORY REQUIREMENTS: COMPLY WITH APPLICABLE CODES, REGULATIONS, ORDINANCES, AND LAWS REGARDING USE AND APPLICATION OF PRODUCTS THAT CONTAIN VOLATILE ORGANIC COMPOUNDS (VOC).
C. PRE-APPLICATION CONFERENCE: PRIOR TO BEGINNING WORK, CONVENE A CONFERENCE TO REVIEW CONDITIONS, INSTALLATION PROCEDURES, SCHEDULES AND COORDINATION WITH OTHER WORK.
D. PRODUCT COMPONENTS: VAPOR/AIR BARRIER COMPONENTS SHALL BE SOURCED FROM ONE MANUFACTURER, INCLUDING SHEET MEMBRANE, SEALANTS, PRIMERS, ADHESIVES AND MASTICS.

1.7 WARRANTY:
A. UPON COMPLETION AND ACCEPTANCE OF THE WORK REQUIRED BY THIS SECTION, THE MANUFACTURER WILL ISSUE A WARRANTY AGREEING TO PROMPTLY REPLACE DEFECTIVE MATERIALS FOR A PERIOD OF 5 YEARS.

1.8 DELIVERY, STORAGE AND HANDLING:
DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL, FACTORY-SEALED, UNOPENED CONTAINERS BEARING MANUFACTURER'S NAME AND LABEL INTACT AND LEGIBLE WITH THE FOLLOWING INFORMATION.
1. NAME OF MATERIAL.
2. MANUFACTURER'S STOCK NUMBER AND DATE OF MANUFACTURE.
MATERIALS IN PROTECTED AND WELL VENTILATED AREA.

1.9 PROJECT CONDITIONS:
A. USE SPECIAL HANDLING PROCEDURES TO APPLY MEMBRANE IF TEMPERATURE IS LESS THAN 40ºF OR TO A DAMP, FROSTY OR CONTAMINATED SURFACE.
B. COORDINATE AIR AND VAPOR BARRIER APPLICATION WITH OTHER TRADES. THE APPLICATOR SHALL HAVE SOLE RIGHT OF ACCESS TO THE SPECIFIED AREAS FOR THE TIME NEEDED TO COMPLETE THE INSTALLATION.
C. WARN PERSONNEL AGAINST BREATHING OF VAPORS AND CONTACT OF MATERIAL WITH SKIN OR EYES. WEAR APPLICABLE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION GEAR.
D. KEEP FLAMMABLE PRODUCTS AWAY FROM SPARK OR FLAME. DO NOT ALLOW THE USE OF SPARK PRODUCING EQUIPMENT DURING APPLICATION UNTIL ALL VAPORS HAVE DISSIPATED. POST "NO SMOKING" SIGNS.
E. MAINTAIN WORK AREA IN A NEAT AND ORDERLY CONDITION, REMOVING EMPTY CONTAINERS, RAGS, AND RUBBISH DAILY FROM THE SITE.

PART 2
PRODUCTS:

2.1 MANUFACTURERS:
PROVIDE CCW-705 SELF-ADHERING VAPOR/AIR BARRIER SHEET MEMBRANE AS MANUFACTURED BY CARLISLE COATINGS AND WATERPROOFING INCORPORATED, 900 HENSLEY LANE, WYLIE, TEXAS 75098, PHONE: (800) 527-7092 FAX: (972) 442-0076.

2.2 PRODUCTS:
CCW-705
SELF-ADHERING VAPOR/AIR BARRIER SHEET MEMBRANE: SHALL BE CCW-705, A COMPOSITE MEMBRANE CONSISTING OF A 36 MIL RUBBERIZED ASPHALT LAMINATED TO 4 MIL CROSS LAMINATED HIGH DENSITY POLYETHYLENE FILM, AND SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
1. TENSILE STRENGTH: 500 PSI MINIMUM, ASTM D-412
2. ULTIMATE ELONGATION: 300% MINIMUM, ASTM D-412
3. PUNCTURE RESISTANCE: 50LBF MINIMUM, ASTM E-154
4. PERMEANCE: 0.05 PERM MAXIMUM, ASTM E-96 B
5. LOW TEMPERATURE FLEXIBILITY: UNAFFECTED AT -25ºF, ASTM D-146, .063" MANDREL
6. AIR PERMEANCE: NOT TO EXCEED 0.02 L/S PER M2 OF AREA @ 75 PA (0.004 CFM PER FT2 OF AREA AT 1.57 LBF/FT2), ASTM E-2178

2.3 ACCESSORY PRODUCTS:
A. SURFACE PRIMER: SHALL BE CCW-702 SOLVENT-BASED PRIMER, CCW-AWP WATER-BASED PRIMER, CCW-714 WATER-BASED PRIMER OR CAV-GRIP.
B. DETAIL FLASHING: CCW-705 TWF, CCW-BARRISEAL, CCW-WINDOW & DOOR FLASHING, PRE-KLEENED EPDM, CCW EZ FLASH W&D AND/OR WILLFLASH MOLDED CORNER FLASHING.
C. MASTIC: SHALL BE CCW-704 MASTIC, OR LM-800XL.
D. SEALANTS: SHALL BE CCW-703 VERTICAL GRADE LIQUISEAL MEMBRANE, PT-304 ONE COMPONENT OR CCW-201 TWO COMPONENT POLYURETHANE SEALANT.

PART 3
EXECUTION

3.1 INSPECTION:
A. BEFORE ANY BARRIER APPLICATION IS STARTED THE APPLICATOR SHALL THOROUGHLY EXAMINE ALL SURFACES FOR ANY DEFICIENCIES. SHOULD ANY DEFICIENCIES EXIST, THE ARCHITECT, OWNER, OR GENERAL CONTRACTOR SHALL BE NOTIFIED IN WRITING AND CORRECTIONS MADE.
B. CONDITION OF GYPSUM BASED SHEATHING SURFACES:
1. THE SHEATHING SURFACES SHALL BE OF SOUND STRUCTURAL GRADE AND SHALL HAVE A SMOOTH FINISH, FREE OF VOIDS, RIDGES, FINS OR ENTRAINED AIR HOLES.
2. SHEATHING SHALL BE FASTENED WITH NON-CORRODING SCREWS, TWIST SHANK NAILS OR BE APPROVED BY THE CARLISLE REPRESENTATIVE.
3. SHEATHING SHALL BE BUTTED FLUSH WITH ADJOINING PANELS.
4. IRREGULARITIES SHALL BE SANDED OR FILLED AS REQUIRED TO ACHIEVE FLUSH SURFACES.
5. ALL ADJACENT METAL FLASHING SHALL BE GALVANIZED OR NON-FERROUS METAL, TIGHT SCREWED OR NAILED.
6. SURFACES AT JOINTS SHALL BE ON THE SAME PLANE.

C. CONDITION OF WOOD SURFACES:
1. THE WOOD SURFACES SHALL BE OF SOUND STRUCTURAL GRADE AND SHALL HAVE A SMOOTH FINISH, FREE OF HOLES, SPLITS, OR ENTRAINED AIR HOLES.
2. WOOD SHALL BE FASTENED WITH NON-CORRODING SCREWS, TWIST SHANK NAILS OR BE APPROVED BY THE CARLISLE REPRESENTATIVE.
3. WOOD SHALL BE BUTTED FLUSH WITH ADJOINING PANELS.
4. IRREGULARITIES SHALL BE SANDED OF FILLED AS REQUIRED TO ACHIEVE FLUSH SURFACES.
5. ALL ADJACENT METAL FLASHING SHALL BE GALVANIZED OR NON-FERROUS METAL, TIGHT SCREWED OR NAILED.
6. SURFACES AT JOINTS SHALL BE ON THE SAME PLANE.

D. CONDITION OF CONCRETE BLOCK SURFACES:
1. CONCRETE BLOCK SURFACES SHALL BE OF SOUND STRUCTURAL GRADE AND SHALL HAVE A SMOOTH FINISH, FREE OF HOLES, CRACKS, OR OTHER DEFECTS.
2. ALL MOTOR JOINTS SHOULD BE STRUCK FLUSH.
3. ADJOINING BEAMS, AND OTHER SUBSTRATES SHOULD BE BUTTED FLUSH WITH CONCRETE BLOCKS.
4. IRREGULARITIES SHALL BE GROUND OR FILLED AS REQUIRED TO ACHIEVE FLUSH SURFACES.
5. ALL ADJACENT METAL FLASHING SHALL BE GALVANIZED OR NON-FERROUS METAL, TIGHT SCREWED OR NAILED.
6. SURFACES AT JOINTS SHALL BE ON THE SAME PLANE.

3.2 SURFACE PREPARATION:
A. THE WALL SURFACE MUST BE THOROUGHLY CLEAN, DRY AND FREE FROM ANY SURFACE CONTAMINATES OR CLEANING RESIDUE THAT MAY HARMFULLY AFFECT THE ADHESION OF THE MEMBRANE.
B. ALL CRACKS OVER 1/16" IN WIDTH SHOULD BE FILLED WITH MATERIAL COMPATIBLE TO THE SUBSTRATE. MOST MASONRY AND WOOD APPLICATIONS CAN BE FILLED WITH EXTERIOR GRADE URETHANE CAULKING.
C. ALL CRACK FILLER COMPOUND TO THOROUGHLY CURE PRIOR TO PROCEEDING.
D. TRIM OR DETAIL ALL DOOR, WINDOW, AND PENETRATIONS USING CARLISLE'S STANDARD DETAILS.

3.3 APPLICATION:
A. PRIMING: CLEAN SURFACES TO REMOVE RESIDUAL DUST BEFORE PRIMING. STIR PRIMER. APPLY BY ROLLER AT A RATE OF 300 TO 350 SQ./FT. PER GALLON. (OVER DENS-GLASS GOLD GYPSUM SHEATHING APPLY BY ROLLER AT A RATE OF 85 TO 100 SQ./FT PER GALLON.) ALLOW PRIMER TO DRY 1-4 HOURS MINIMUM AT 75ºF.
B. VERTICAL SURFACES: INSTALL SHEET MEMBRANE IN HORIZONTAL FASHION WITH SHINGLE STYLE OVERLAPPING SEAMS. OVERLAP EDGE SEAMS 2 ½", END LAPS 5". STAGGER END SEAMS. ROLL IN PLACE WITH AN 18" TO 24" WIDE ROLLER OR BROOM. ENSURE THAT ALL LAPS ARE FIRMLY ADHERED AND THAT THERE ARE NO GAPS OR FISHMOUTHS.
C. TERMINATIONS: CARLISLE RECOMMENDS APPLYING FASTENERS ON 6" CENTERS ALONG THE TOP EDGE OF THE APPLICATION TO ASSIST IN INITIAL ADHESION. ROLL TERMINATING EDGES, AND SEAMS FIRMLY. APPLY SEALANTS OR MASTIC TO ALL TERMINATIONS AND "T" - JOINTS. TIE CCW-705 TO THE ROOF VAPOR/AIR BARRIER SO THAT THE JUNCTURE IS AIR TIGHT, DURABLE AND CONTINUOUS
D. PROTECTION: MODIFIED BITUMINOUS SHEET AIR BARRIERS ARE NOT DESIGNED FOR PERMANENT EXPOSURE AND SHOULD BE COVERED AS SOON AS CONSTRUCTION SCHEDULING ALLOWS.

END OF SECTION 07271

TERMITE PROTECTION

A. TREAT SOIL UNDER ALL FOOTINGS, GRADE BEAMS AND GROUND SUPPORTED SLABS WITH AN E.P.A. REGISTERED TERMITICIDE COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION
B. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL, IN ACCORDANCE WITH 2004 FLORIDA BUILDING CODE, SECTION 105.11
C. CONDENSATE AND DOWNSPOUTS SHALL DISCHARGE A MINIMUM OF 1'" FROM BUILDING SIDE WALLS IN ACCORDANCE WITH 2004 FLORIDA BUILDING CODE, SECTION 1503.6
D. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISER AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 12" OF THE BUILDING SIDE WALL.
E. TO PROVIDE FOR INSPECTION, CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE SHALL BE NOT LESS THAN 6". FBC 1403.8
F. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
G. SOIL DISTURBED AFTER INITIAL TREATMENT SHALL BE RE-TREATED, INCLUDING SPACES BOXED AND FORMED. FBC 1816.1.2
H. AREAS BOXED OR FORMED FOR SUBSEQUENT INSTALLATIONS SHALL BE MADE WITH PLASTIC OR METAL PERMANENTLY PLACED FORMS OF SUFFICIENT DEPTH TO ELIMINATE ANY PLANNED SOIL DISTURBANCE AFTER INITIAL CHEMICAL SOIL TREATMENT. FBC 1816.1.3
I. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RE-TREATMENT IS REQUIRED. FBC 1816.1.4
J. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR TREATMENT. FBC 1816.1.5
K. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 12" OF THE PRIMARY STRUCTURE SIDE WALLS. ALSO A VERTICAL CHEMICAL BARRIER SHALL BE APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED, INCLUDING INITIAL LANDSCAPING AND IRRIGATION/SPRINKLER INSTALLATION. ANY SOIL DISTURBED AFTER THE CHEMICAL VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RE-TREATED. FBC 1816.1.6
L. ALL BUILDINGS SHALL HAVE PRE-CONSTRUCTION TREATMENT PROTECTION AGAINST SUBTERRANEAN TERMITES. A "CERTIFICATE OF COMPLIANCE" SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMANT: THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
M. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2304.13
N. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH OR OTHER CELLULOSE-CONTAINING MATERIAL SHALL BE BURIED ON THE BUILDING LOT WITHIN 15 FEET OF ANY BUILDING.
O. PROTECTION FROM DECAY AND TERMITES SHALL BE PROVIDED BY THE USE OF NATURALLY DURABLE OR PRESERVATIVE TREATED WOOD AS REQUIRED BY FBC. 2304.11

AA C000606
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NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET

A10.2

OF

SECTION 07130

LIQUID APPLIED VAPOR/AIR BARRIER MEMBRANE

PART 1 - GENERAL

1.1 SECTION INCLUDES:

INSTALLATION OF LIQUID APPLIED VAPOR/AIR BARRIER SHEET MEMBRANE ON STANDARD BUILDING EXTERIOR GRADE SURFACES INDICATED ON DRAWINGS, CONSISTING OF PREPARATION OF EXISTING AND REPAIRED EXTERIOR GRADE SURFACES, SEALING OF CRACKS, SEAMS, JOINTS AND APPLICATION OF REINFORCED BARRISEAL, CCW 705 VAPOR/AIR BARRIER MEMBRANE, OR CCW WINDOW & DOOR FLASHING.

1.2 RELATED SECTIONS:

A. SECTION 03300 - CAST-IN-PLACE CONCRETEQ1
B. SECTION 04200 - MASONRY
C. SECTION 07200 - INSULATION; VAPOR BARRIER
D. SECTION 07410 - METAL PANEL SYSTEMS
E. SECTION 07900 - JOINT SEALERS
F. SECTION 08100 - DOOR FRAMES
G. SECTION 08500 - WINDOW FRAMES
H. SECTION 09200 - GYPSUM BOARD

1.3 REFERENCES:

A. ASTM D 412 TESTS FOR RUBBER PROPERTIES IN TENSION.
B. ASTM E PUNCTURE RESISTANCE.
C. ASTM E 96(B) WATER VAPOR TRANSMISSION OF MATERIALS.
D. ASTMD 1970 SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS.
UL 790 TESTS FOR FIRE RESISTANCE OF ROOF COVERING MATERIALS.
E. ASTM E 283 TESTS FOR AIR LEAKAGE THROUGH EXTERIOR ASSEMBLIES.
F. ASTM E 331 TESTS FOR WATER PENETRATION OF EXTERIOR ASSEMBLIES.
G. ASTM E 2178 TEST FOR AIR PERMEANCE RATING.
H. ASTM D 1187 TEST FOR ASPHALT-BASE EMULSIONS
I. ASTM D 2939 TEST FOR EMULSIFIED BITUMENS

1.4 SYSTEM DESCRIPTION:

PRODUCT PROVIDED BY THIS SECTION IS A SELF-ADHESIVE LIQUID APPLIED MEMBRANE OF NOT LESS THAN 40 MILS THICKNESS, CONSISTING OF A WATER-BASED ASPHALT EMULSION MODIFIED WITH A BLEND OF SYNTHETIC RUBBERS AND ADDITIVES WHICH CURES TO FORM A FLEXIBLE, MONOLITHIC VAPOR/AIR BARRIER.

1.5 SUBMITTALS:

A. GENERAL: SUBMIT IN ACCORDANCE WITH SECTION 01300.
B. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT LITERATURE, INSTALLATION INSTRUCTIONS AND STANDARD DETAILS.
C. SUBCONTRACTOR APPROVAL BY MANUFACTURER: SUBMIT DOCUMENT STATING MANUFACTURER'S ACCEPTANCE OF SUBCONTRACTOR AS AN APPROVED APPLICATOR FOR THE SPECIFIED MATERIALS.
D. WARRANTY: SUBMIT A SAMPLE WARRANTY IDENTIFYING THE TERMS AND CONDITIONS STATED IN SECTION 1.7.

1.6 QUALITY ASSURANCE:

A. APPLICATOR QUALIFICATIONS: APPLICATOR SHALL BE EXPERIENCED IN APPLYING THE SAME OR SIMILAR MATERIALS AND SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE MEMBRANE MANUFACTURER.
B. ORDINANCES, AND LAWS REGARDING USE AND APPLICATION OF PRODUCTS THAT CONTAIN VOLATILE ORGANIC COMPOUNDS (VOC).
C. PRE-APPLICATION CONFERENCE: PRIOR TO BEGINNING WORK, CONVENE A CONFERENCE TO REVIEW CONDITIONS, INSTALLATION PROCEDURES, SCHEDULES AND COORDINATION WITH OTHER WORK.
D. PRODUCT COMPONENTS: VAPOR/AIR COMPONENTS SHALL BE SOURCED FROM ONE MANUFACTURER, INCLUDING SHEET MEMBRANE, SEALANTS, PRIMERS, ADHESIVES AND MASTICS.

1.7 WARRANTY:

A. UPON COMPLETION AND ACCEPTANCE OF THE WORK REQUIRED BY THIS SECTION, THE MANUFACTURER WILL ISSUE A WARRANTY AGREEING TO PROMPTLY REPLACE DEFECTIVE MATERIALS FOR A PERIOD OF 5 YEARS.

B. THE FORMATION OR PRESENCE OF MOLD OR FUNGI IN A BUILDING IS DEPENDENT UPON A BROAD RANGE OF FACTORS INCLUDING, BUT NOT LIMITED TO, THE PRESENCE OF SPORES AND NUTRIENT SOURCES, MOISTURE, TEMPERATURES, CLIMATIC CONDITIONS, RELATIVE HUMIDITY, AND HEATING/VENTILATING SYSTEMS AND THEIR MAINTENANCE AND OPERATING CAPABILITIES. THESE FACTORS ARE BEYOND THE CONTROL OF CARLISLE AND CARLISLE SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS, REPAIRS, RESTORATION OR DAMAGES RELATING TO THE PRESENCE OF ANY IRRITANTS, CONTAMINANTS, VAPORS, FUMES, MOLDS, FUNGI, BACTERIA, SPORES, MYCOTOXINS OR THE LIKE IN ANY BUILDING OR IN THE AIR, LAND OR WATER SERVING THE BUILDING.

1.8 DELIVERIES, STORAGE AND HANDLING:

DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL, FACTORY-SEALED, UNOPENED CONTAINERS BEARING MANUFACTURER'S NAME AND LABEL INTACT AND LEGIBLE WITH THE FOLLOWING INFORMATION.
1. NAME OF MATERIAL.
2. MANUFACTURER'S STOCK NUMBER AND DATE OF MANUFACTURE. MATERIALS IN PROTECTED AND WELL VENTILATED AREA.

1.9 PROJECT CONDITIONS:

A. DO NOT APPLY MEMBRANE IF TEMPERATURE IS LESS THAN 40 DEGREES F. OR TO A DAMP, FROSTY OR CONTAMINATED SURFACE.
B. COORDINATE VAPOR/AIR BARRIER APPLICATION WITH OTHER TRADES. THE APPLICATOR SHALL HAVE SOLE RIGHT OF ACCESS TO THE SPECIFIED AREAS FOR THE TIME NEEDED TO COMPLETE THE INSTALLATION.
C. WARN PERSONNEL AGAINST BREATHING OF VAPORS AND CONTACT OF MATERIAL WITH SKIN OR EYES. WEAR APPLICABLE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION GEAR.
D. KEEP FLAMMABLE PRODUCTS AWAY FROM SPARK OR FLAME. DO NOT ALLOW THE USE OF SPARK PRODUCING EQUIPMENT DURING APPLICATION AND UNTIL ALL VAPORS HAVE DISSIPATED. POST "NO SMOKING" SIGNS.
E. MAINTAIN WORK AREA IN A NEAT AND ORDERLY CONDITION, REMOVING EMPTY CONTAINERS, RAGS, AND RUBBISH DAILY FROM THE SITE.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

PROVIDE BARRISEAL MEMBRANE AS MANUFACTURED BY CARLISLE COATINGS AND WATERPROOFING INCORPORATED, 900 HENSLEY LANE; WYLIE, TEXAS 75098, PHONE: (800) 527-7092 FAX: (972) 442-0076.

2.2 PRODUCTS:

SELF-ADHESIVE LIQUID APPLIED VAPOR/AIR BARRIER MEMBRANE: SHALL BE SINGLE COAT APPLICATION OF 40 MIL LIQUID APPLIED RUBBERIZED ASPHALT, AND SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
1. RESILIENCE: 98% ASTM D-3407
2. ULTIMATE ELONGATION: 1300% MINIMUM, ASTM D-41
3. PERM RATING: 0.02 ASTM E-9
4. TRANSMISSION: 0.01 GM/SQ.FT ASTM E-9

2.3 ACCESSORY PRODUCTS:

A. SURFACE PRIMER: SHALL BE CCW-702 SOLVENT-BASED PRIMER , CCW-AWP WATER-BASED PRIMER OR CCW-CAV-GRIP.
B. DETAIL MEMBRANE: CCW-705 TWF, CCW-BARRISEAL, DCH REINFORCING FABRIC CCW-W/D FLASHING OR PRE-KLEENED EPDM.
C. MASTIC: SHALL BE CCW-704 MASTIC.
D. SEALANTS: SHALL BE CCW-703 VERTICAL GRADE LIQUISEAL MEMBRANE, PT-304 ONE COMPONENT OR CCW-201 TWO COMPONENT POLYURETHANE SEALANT.

PART 3 - EXECUTION

3.1 INSPECTION:

A. Before any barrier application is started the applicator shall thoroughly examine all surfaces for any deficiencies. Should any deficiencies exist, the architect, owner, or general contractor shall be notified in writing and corrections made.
B. Condition of Gypsum Based Sheathing Surfaces:

1. The sheathing surfaces shall be of sound structural grade and shall have a smooth finish, free of voids, ridges, fins or entrained air holes.
2. Sheathing shall be fastened with non-corroding screws, twist shank nails or be approved by the Carlisle representative.
3. Sheathing shall be butted flush with adjoining panels.
4. Irregularities shall be sanded or filled as required to achieve flush surfaces.
5. All adjacent metal flashing shall be galvanized or non-ferrous metal, tight screwed or nailed.
6. Surfaces at joints shall be on the same plane.

C. Condition of Wood Surfaces:

1. The wood surfaces shall be of sound structural grade and shall have a smooth finish, free of holes, splits, or entrained air holes.
2. Wood shall be fastened with non-corroding screws, twist shank nails or be approved by the Carlisle representative.
3. Wood shall be butted flush with adjoining panels.
4. Irregularities shall be sanded or filled as required to achieve flush surfaces.
5. All adjacent metal flashing shall be galvanized or non-ferrous metal, tight screwed or nailed.
6. Surfaces at joints shall be on the same plane.

D. Condition of Concrete Block Surfaces:

1. Concrete Block surfaces shall be of sound structural grade and shall have a smooth finish, free of holes, cracks, or other defects.
2. All motor joints should be struck flush.
3. Adjoining beams, and other substrates should be butted flush with concrete blocks.
4. Irregularities shall be ground or filled as required to achieve flush surfaces.
5. All adjacent metal flashing shall be galvanized or non-ferrous metal, tight screwed or nailed.
6. Surfaces at joints shall be on the same plane.

3.2 SURFACE PREPARATION:

A. The wall surface must be thoroughly clean, dry and free from any surface contaminates or cleaning residue that may harmfully affect the adhesion of the membrane.
B. All cracks over 1/16" in width should be filled with material compatible to the substrate. Most masonry and wood applications can be filled with exterior grade urethane caulking.
C. All crack filler compound to thoroughly cure prior to proceeding.
D. Trim or detail all door, window, and penetrations using Carlisle's standard details.
E. Brick ledge flashing should be in-place prior to application of Vapor/Air Barrier.

3.3 APPLICATION:

A. Clean surfaces to remove residual dust before priming.
B. Detail - Joints, seam, penetrations with either a 30 mil coat of Barriseal containing DCH reinforcing fabric, or apply a strip of CCW-705 on a primed surface, or apply CCW Door and Window Flashing on primed surface.
C. Apply Barriseal from base of wall working up to allow water to drain over the applied area. Install at 31 sq ft per gallon
D. Terminations: Apply the Barriseal on to the edge of brick ledge flashing, door and window flashing tapes. Extend the Barriseal up above the interior living space or on to the roof vapor/air barrier.
E. Protection: Vapor/Air Sheet Membranes are not designed for permanent exposure and should be covered as soon as construction scheduling allows.

End of Section 07130

SECTION 07271

MODIFIED BITUMINOUS SHEET AIR BARRIERS

PART 1 GENERAL

1.1 SECTION INCLUDES:

Installation of modified bituminous sheet air barrier on standard building exterior grade surfaces indicated on drawings, consisting of preparation of existing and repaired exterior grade surfaces, sealing of cracks, seams, joints and application of CCW-705, a vapor-impermeable, self-adhered, modified bituminous sheet air barrier.

1.2 RELATED SECTIONS:

A. Section 03300 – Cast-In-Place Concrete
B. Section 04200 – Masonry
C. Section 07200 – Insulation; Vapor Barrier
D. Section 07410 – Metal Panel Systems
E. Section 07900 – Joint Sealers
F. Section 08100 – Door Frames
G. Section 08500 – Window Frames
H. Section 09200 – Gypsum Board

1.3 REFERENCES:

A. ASTM D 412 Tests for Rubber Properties in Tension.
B. ASTM E 154 Puncture Resistance
C. ASTM E 96(B) Water Vapor Transmission of Materials.
D. ASTM E 283 Tests for Air Leakage through Exterior Assemblies.
E. ASTM E 331 Tests for Water Penetration of Exterior Assemblies.
F. ASTM E 2178 Test for Air Permeance Rating.

1.4 SYSTEM DESCRIPTION:

CCW-705
Product provided by this Section is a self-adhesive membrane of not less than 40 mils thickness, consisting of 36 mil rubberized asphalt membrane laminated to a 4 mil, cross laminated high density polyethylene film.

1.5 SUBMITTALS:

A. General: Submit in accordance with Section 01300.
B. Product Data: Submit manufacturer's product literature, installation instructions and standard details.
C. Subcontractor approval by manufacturer: Submit document stating manufacturer's acceptance of subcontractor as an Approved Applicator for the specified materials.
D. Warranty: Submit a sample warranty identifying the terms and conditions stated in Section 1.7.

1.6 QUALITY ASSURANCE:

A. Applicator Qualifications: Applicator shall be experienced in applying the same or similar materials and shall be specifically approved in writing by the membrane manufacturer.
B. Regulatory Requirements: Comply with applicable codes, regulations, ordinances, and laws regarding use and application of products that contain volatile organic compounds (VOC).
C. Pre-Application Conference: Prior to beginning work, convene a conference to review conditions, installation procedures, schedules and coordination with other work.
D. Product Components: Vapor/Air Barrier components shall be sourced from one manufacturer, including sheet membrane, sealants, primers, adhesives and mastics.

1.7 WARRANTY:

A. Upon completion and acceptance of the work required by this section, the manufacturer will issue a warranty agreeing to promptly replace defective materials for a period of 5 years.

B. The Formation or presence of mold or fungi in a building is dependent upon a broad range of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Carlisle and Carlisle shall not be responsible for any claims, repairs, restoration or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins or the like in any building or in the air, land or water serving the building.

1.8 DELIVERY, STORAGE AND HANDLING:

Deliver materials to project site in original, factory-sealed, unopened containers bearing manufacturer's name and label intact and legible with the following information.

1. Name of material.
2. Manufacturer's stock number and date of manufacture. Materials in protected and well ventilated area.

1.9 PROJECT CONDITIONS:

A. Use special handling procedures to apply membrane if temperature is less than 40ºF or to a damp, frosty or contaminated surface.
B. Coordinate air and vapor barrier application with other trades. The applicator shall have sole right of access to the specified areas for the time needed to complete the installation.
C. Warn personnel against breathing of vapors and contact of material with skin or eyes. Wear applicable protective clothing and respiratory protection gear.
D. Keep flammable products away from spark or flame. Do not allow the use of spark producing equipment during application until all vapors have dissipated. Post "NO SMOKING" signs.
E. Maintain work area in a neat and orderly condition, removing empty containers, rags, and rubbish daily from the site.

PART 2 – PRODUCTS

2.1 MANUFACTURERS:

Provide CCW-705 self-adhering vapor/air barrier sheet membrane as manufactured by Carlisle Coatings and Waterproofing Incorporated, 900 Hensley Lane, Wylie, Texas 75098, Phone: (800) 527-7092 Fax: (972) 442-0076.

2.2 PRODUCTS:

CCW-705
Self-Adhering Vapor/Air Barrier Sheet Membrane: Shall be CCW-705, a composite membrane consisting of a 36 mil rubberized asphalt laminated to 4 mil cross laminated high density polyethylene film, and shall meet or exceed the following requirements:

1. Tensile Strength: 500 psi minimum, ASTM D-412
2. Ultimate Elongation: 300% minimum, ASTM D-412
3. Puncture Resistance: 50lbf minimum, ASTM E-154
4. Permeance: 0.05 Perm maximum, ASTM E-96 B
5. Low Temperature Flexibility: Unaffected at –25ºF, ASTM D-146, .063" mandrel
6. Air Permeance: Not to exceed 0.02 L/s per m2 of area @ 75 Pa (0.004 CFM per ft2 of area at 1.57 lbf/ft2), ASTM E-2178

2.3 ACCESSORY PRODUCTS:

A. Surface Primer: Shall be CCW-702 Solvent-Based Primer, CCW-AWP Water-Based primer, CCW-714 Water-Based Primer or CAV-GRIP.
B. Detail Flashing: CCW-705 TWF, CCW-Barriseal, CCW-Window & Door Flashing, PRE-KLEENED EPDM, CCW EZ Flash W&D and/or WillFlash Molded Corner Flashing.
C. Mastic: Shall be CCW-704 Mastic, or LM-800XL.
D. Sealants: Shall be CCW-703 Vertical Grade LiquiSEAL membrane, PT-304 one component or CCW-201 two component Polyurethane Sealant.

PART 3 – EXECUTION

3.1 INSPECTION:

A. Before any barrier application is started the applicator shall thoroughly examine all surfaces for any deficiencies. Should any deficiencies exist, the architect, owner, or general contractor shall be notified in writing and corrections made.
B. Condition of Gypsum Based Sheathing Surfaces:

1. The sheathing surfaces shall be of sound structural grade and shall have a smooth finish, free of voids, ridges, fins or entrained air holes.
2. Sheathing shall be fastened with non-corroding screws, twist shank nails or be approved by the Carlisle representative.
3. Sheathing shall be butted flush with adjoining panels.
4. Irregularities shall be sanded or filled as required to achieve flush surfaces.
5. All adjacent metal flashing shall be galvanized or non-ferrous metal, tight screwed or nailed.
6. Surfaces at joints shall be on the same plane.

C. Condition of Wood Surfaces:

1. The wood surfaces shall be of sound structural grade and shall have a smooth finish, free of holes, splits, or entrained air holes.
2. Wood shall be fastened with non-corroding screws, twist shank nails or be approved by the Carlisle representative.
3. Wood shall be butted flush with adjoining panels.
4. Irregularities shall be sanded or filled as required to achieve flush surfaces.
5. All adjacent metal flashing shall be galvanized or non-ferrous metal, tight screwed or nailed.
6. Surfaces at joints shall be on the same plane.

D. Condition of Concrete Block Surfaces:

1. Concrete Block surfaces shall be of sound structural grade and shall have a smooth finish, free of holes, cracks, or other defects.
2. All motor joints should be struck flush.
3. Adjoining beams, and other substrates should be butted flush with concrete blocks.
4. Irregularities shall be ground or filled as required to achieve flush surfaces.
5. All adjacent metal flashing shall be galvanized or non-ferrous metal, tight screwed or nailed.
6. Surfaces at joints shall be on the same plane.

3.2 SURFACE PREPARATION:

A. The wall surface must be thoroughly clean, dry and free from any surface contaminates or cleaning residue that may harmfully affect the adhesion of the membrane.
B. All cracks over 1/16" in width should be filled with material compatible to the substrate. Most masonry and wood applications can be filled with exterior grade urethane caulking.
C. All crack filler compound to thoroughly cure prior to proceeding.
D. Trim or detail all door, window, and penetrations using Carlisle's standard details.
E. Brick ledge flashing should be in-place prior to application of Air/Vapor Barrier.

3.3 APPLICATION:

A. Priming: Clean surfaces to remove residual dust before priming. Stir primer. Apply by roller at a rate of 300 to 350 sq./ft. per gallon. (Over Dens-Glass Gold Gypsum Sheathing apply by roller at a rate of 85 to 100 sq./ft per gallon.) Allow primer to dry 1-4 hours minimum at 75ºF.
B. Vertical Surfaces: Install sheet membrane in horizontal fashion with shingle style overlapping seams. Overlap edge seams 2 ½", end laps 5". Stagger end seams. Roll in place with an 18" to 24" wide roller or broom. Ensure that all laps are firmly adhered and that there are no gaps or fishmouths.
C. Terminations: Carlisle recommends applying fasteners on 6" centers along the top edge of the application to assist in initial adhesion. Roll terminating edges, and seams firmly. Apply sealants or mastic to all terminations and "T" – joints. Tie CCW-705 to the roof vapor/air barrier so that the juncture is air tight, durable and continuous
D. Protection: Modified bituminous sheet air barriers are not designed for permanent exposure and should be covered as soon as construction scheduling allows.

End of Section 07271

AA C000606

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LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET
A10.3

OF

AREA AND OCCUPANCY SCHEDULE

LEVEL	AREA	SPACE	AREA	% OCC	OCCUPANCY
1ST FLOOR	15,621 SQ FT				
		GUEST UNITS (R1)	2,742 SQ FT	1/200 SQ FT	14 PERSONS
		LOBBY/BKFST/BAR (A2)	2,190 SQ FT	1/15 SQ FT	146 PERSONS
		ASSEMBLY AREA (A3)	3,239 SQ FT	1/15 SQ FT	216 PERSONS
		GUEST LAUNDRY (R/S)	247 SQ FT	1/200 SQ FT	2 PERSONS
		OFFICE (B)	646 SQ FT	1/150 SQ FT	4 PERSONS
		FITNESS CENTER (A3)	754 SQ FT	1/50 SQ FT	16 PERSONS
		LAUNDRY (B)	735 SQ FT	1/150 SQ FT	5 PERSONS
		KITCHEN (B)	334 SQ FT	1/150 SQ FT	4 PERSONS
		STORAGE/MECH (S1)	1111 SQ FT	1/300 SQ FT	4 PERSONS
				TOTAL	411 PERSONS

LEVEL	AREA	SPACE	AREA	% OCC	OCCUPANCY
TYP. UPPER FLR (4)	14,161 SQ FT				
		GUEST UNITS (R1)	10,856 SQ FT	1/200 SQ FT	55 PERSONS
		HSKPG/STOR (R/S)	668 SQ FT	1/200 SQ FT	4 PERSONS
				TOTAL	59 PERSONS

TOTAL BLDG AREA: 72,265 SQ FT MAX OCCUPANCY: 647 PERSONS

CODES

ALL CONSTRUCTION SHALL COMPLY WITH CURRENTLY ADOPTED CODES AND GUIDELINES, INCLUDING :

FLORIDA BUILDING CODE 7th EDITION (2020)
- Accessibility
- Building
- Energy Conservation
- Fuel Gas
- Mechanical
- Plumbing

Florida Fire Prevention Code 7th EDITION (2020)
Fire Code - NFPA 1 - 2018 EDITION
The Life Safety Code - NFPA 101 - 2018 EDITION
The National Electrical Code - NFPA 70 - 2020 EDITION

FAIRFIELD BY MARRIOTT DESIGN GUIDELINE DRAWINGS
2016 (Revised 2019)

CODE REVIEW

Florida Building Code:

CONSTRUCTION TYPE:
II-B TABLE 601 (SPRINKLERED PER SEC. 903.3.1 - NFPA 13)

OCCUPANCY:
R-1: PRIMARY OCCUPANCY
B: NON-SEPARATED 508.3
A-2/3: SEPARATED 1 HR PER 508.4

MAX TRAVEL DISTANCE ALLOWED:
R-1 = 250' (TABLE 1016.2)
B = 300' (TABLE 1016.2)
A = 250' (TABLE 1016.2)

BUILDING HEIGHT:
ALLOWABLE 75'-0" (TABLE 504.3 TYPE II-B) PROPOSED 68'-2"

STORIES:
ALLOWABLE R-1: 5 (TABLE 504.4 TYPE II-B) PROPOSED 5

NFPA:

CONSTRUCTION TYPE:
II-000 SPRINKLERED PER NFPA 13

OCCUPANCY:
HOTEL: PRIMARY OCCUPANCY
BUSINESS: MIXED USE 6.1.14.1.3
MERCANTILE: MIXED USE 6.1.14.1.3
ASSEMBLY: SEPARATED 1 HR [TABLE 6.1.14.4.1(a)]

MAX TRAVEL DISTANCE ALLOWED:
R-1 = 250' (TABLE 1016.2)
B = 300' (TABLE 1016.2)
A = 250' (TABLE 1016.2)

FIRE RATING ANALYSIS

EXTERIOR BEARING WALLS	0 HOURS	GUESTROOM PARTY WALLS	1 HOUR
STAIRWELL SHAFTS, ELEV SHAFT & LAUNDRY CHUTE SHAFT	2 HOURS	DOORS IN 2 HOUR RATED WALLS	90 MINUTES
HOLLOW CORE FLOOR / CEILING ASSEMBLY BETWEEN FLOORS	1 HOUR	DOORS IN 1 HOUR RATED WALLS	45 MINUTES
SEPARATION WALLS	1 HOUR	GUESTROOM ENTRANCE DOOR	20 MINUTES

NOTE:
1. REFER TO UL DETAILS FOR RATED ASSEMBLY REQUIREMENTS
2. WALL RATINGS ALSO REFLECTED ON FLOOR PLANS
3. PROVIDE SIGNS FOR FIRE RATED WALLS AT 30 FT INTERVALS.

CEILING WALL FIRE RESISTANT CLASS

EXIT ENCLOSURES	CLASS A	ROOMS AND ENCLOSED SPACES	CLASS A,B,C
LOBBYS AND CORRIDORS	CLASS A, B		

FLOOR FIRE RESISTANT CLASS

EXITS, CORRIDORS AND NOT ENCLOSED SPACES	CLASS II	ROOMS AND ENCLOSED SPACES	CLASS I, II

LEGEND

- MEANS OF EGRESS
- EXIT SIGN
- EMERGENCY LIGHTING
- FEC — WALL MOUNTED FIRE EXTINGUISHER CABINET
- 1—1—1 ONE (1) HOUR WALL
- 2—2—2 TWO (2) HOUR WALL
- 114 / 34.2" — NUMBER OF OCCUPANTS /EXIT DOOR
- REQUIRED EXIT WIDTH
- S 150 s.f. / 300 = 25 — OCC. TYPE / FUNCTION AREA
- OCC. LOAD
- OCC. LOAD FACTOR

OCCUPANT LOAD TYPES
- RESIDENTIAL (R)
- ASSEMBLY (A)
- BUSINESS (B)

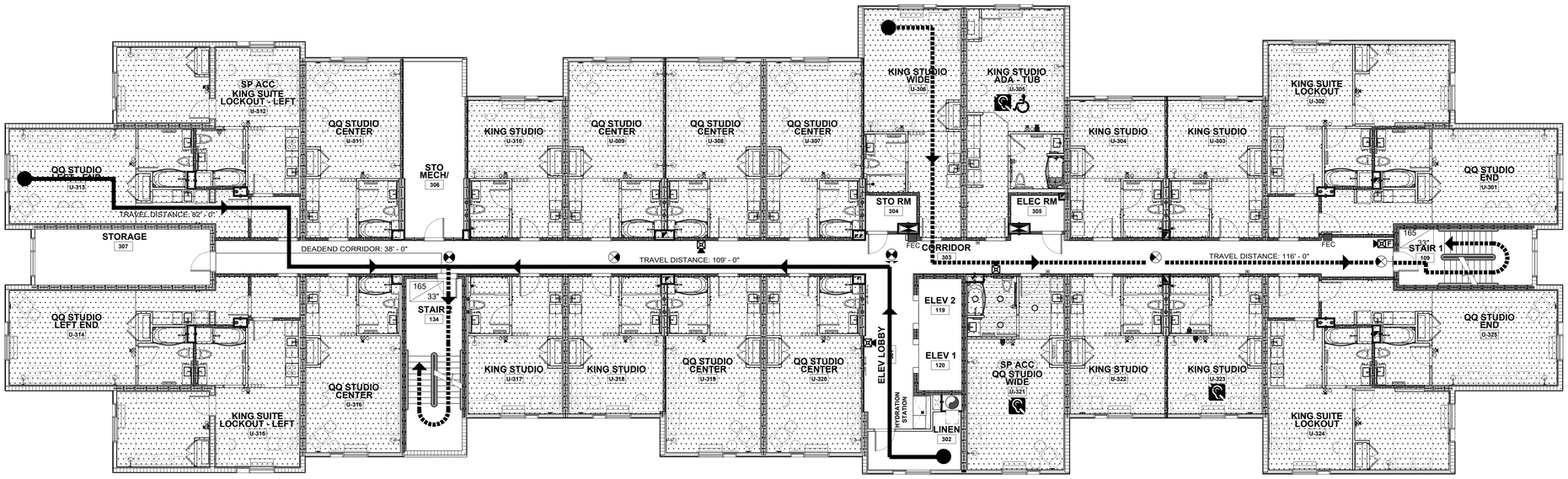
NOTES

ALL SIGNS INDICATED TO BE PROVIDED AND INSTALLED BY CONTRACTOR

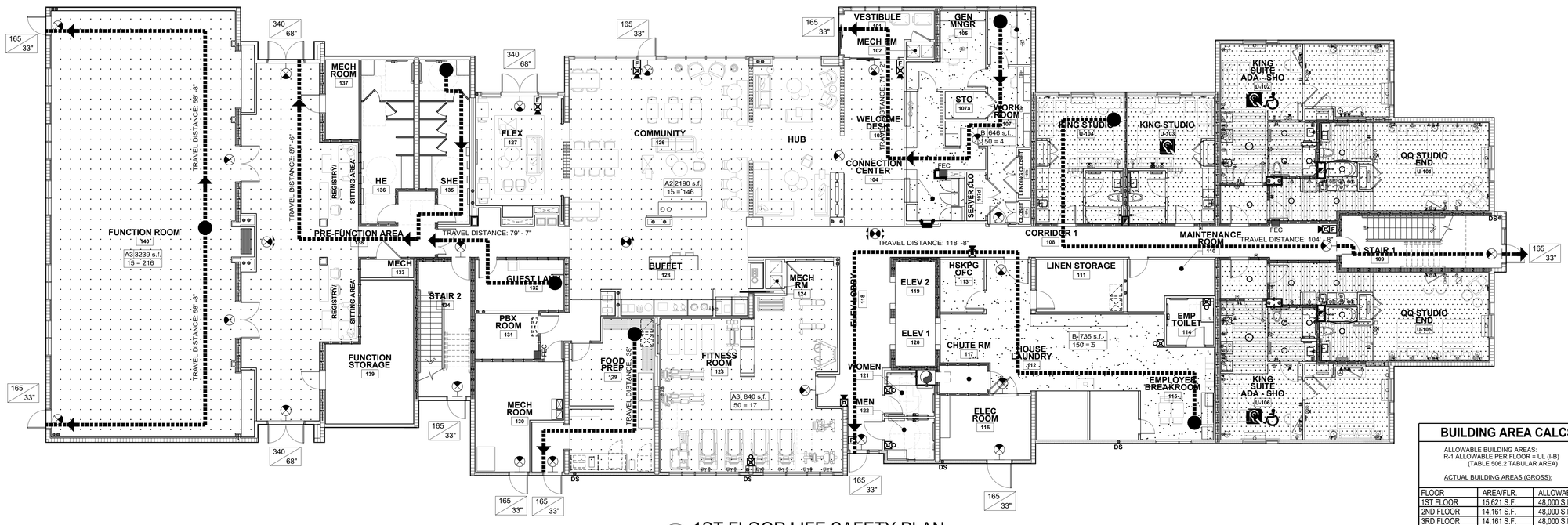
PROVIDE FIRE EXTINGUISHERS HAVING A MINIMUM RATING OF 2A-10B-C FOR EVERY 3000 SQUARE FEET OF FLOOR AREA.

TRAVEL DISTANCE TO AN EXTINGUISHER SHALL NOT EXCEED 75 FEET.

MOUNT AT 33" A.F.F. INSTALLED IN APPROPRIATE LOCATIONS AS DIRECTED BY FIRE MARSHALL TO MEET LOCAL CODES.



2 2ND - 5TH FLOORS LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



1 1ST FLOOR LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

MEANS OF EGRESS

1. AREAS INCLUDED FOR OCCUPANT LOAD CALCULATION DO NOT INCLUDE CORRIDORS, STAIRS, RESTROOMS AND UNOCCUPIED AREAS.

2. THE NUMBER OF OCCUPANTS HAVE BEEN ROUNDED UP TO THE NEAREST WHOLE OCCUPANT

3. DESIGN OCCUPANT LOADPER FBC TABLE 1004.1.2: SEE CALCULATIONS BY OCCUPANCY THIS SHEET.
A. ACCESSORY STORAGE AREAS (R/S) = 300 SF / OCCUPANT (GROSS)
B. ASSEMBLY W/O FIXED SEATS (A2) = 15 SF / OCCUPANT (NET)
C. BUSINESS AREAS (B) = 150 SF / OCCUPANT (GROSS)
D. RESIDENTIAL (R1) = 200 SF/ OCCUPANT (GROSS)

4. NUMBER OF EXITS (FBC 1006):TWO EXITS SHALL BE REQUIRED FROM ANY SPACE WHERE THE OCCUPANT LOAD EXCEEDS THE FOLLOWING VALUES PER IBC TABLE 1015.1: SEE EXITING PLANS THIS SHEET.
A. GROUP A = 49 OCCUPANTS
B. GROUP B = 49 OCCUPANTS
C. GROUP R = 10 OCCUPANTS

5. SEPARATION OF EXITS (FBC 1007.1.1) WHERE TWO EXITS ARE REQUIRED THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/3 THE DIAGONAL DIMENSION OF THE AREA SERVED (EXCEPTION 2 SPRINKLERED BUILDING). SEE EXITING PLANS THIS SHEET FOR SEPARATION DIMENSIONS.

6. COMMON PATH OF EGRESS TRAVEL (FBC TBL. 1006.2.1):
SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
A. GROUP A, R = 75 FT MAXIMUM.
B. GROUP B = 100 FT MAXIMUM.

7. EXIT ACCESS TRAVEL DISTANCE (FBC TBL. 1017.2):
A. GROUP A,R = 250 FT (SPRINKLERED)
B. GROUP B = 300 FT (SPRINKLERED)

EXIT ACCESS TRAVEL DISTANCE (FFPC-LSC 28.2.6.3.3.1):
A. GROUP NEW HOTEL = 200 FT (SPRINKLERED) FROM GUEST ROOM TO EXIT

8. DEAD-END CORRIDORS (FFPC-LSC 39.2.5.2; 28.2.5.6)
A. GROUP B, R-1 (SPRINKLERED) = 50 FT.

9. EGRESS WIDTH (FBC 1005.1) SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPIED BY:
A. (SPRINKLERED EXCEPTION) .2 INCHES / OCCUPANT FOR STAIRS. PROPOSED STAIR WIDTH = 48" / .2 = 240 OCCUPANTS / STAIR ACCOMMODATED.
B. (SPRINKLERED EXCEPTION) .15 INCHES PER OCCUPANT FOR OTHER COMPONENTS
- PROPOSED 36" DOOR = 34"/.15 = 227 OCCUPANTS ACCOMMODATED
- PROPOSED RESIDENTIAL CORRIDOR WIDTH = 63" CLEAR/.15 = 420 OCCUPANTS ACCOMMODATED.
C. SEE EXITING PLANS FOR ACTUAL NUMBER OF OCCUPANTS.

10. MEANS OF EGRESS ILLUMINATION (IBC 1008)
A. PROVIDE ILLUMINATION LEVEL OF NOT LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES THE SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
B. POWER SUPPLY TO BE PROVIDED BY PREMISES' ELECTRICAL SUPPLY. IN EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE AREAS REQUIRED PER FBC 1008.3 INCLUDING: CORRIDORS, EXIT ENCLOSURES, EXIT PASSAGEWAYS, INTERIOR EXIT DISCHARGE ELEMENTS AND EXTERIOR LANDINGS FOR EXIT DISCHARGE DOORWAYS.
C. REFER TO ELECTRICAL PLANS OR BIDDER/DESIGN PLANS FOR SYSTEM DESIGN.

11. EXIT SIGNS (FBC 1013):
A. PROVIDE AN APPROVED EXIT SIGN AT ALL EXITS AND EXIT ACCESS DOORWAYS (FROM SPACES REQUIRING TWO EXITS) IN A LOCATION THAT IS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. PLACE SIGNS SUCH THAT NO POINT IN CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FT FROM THE NEAREST VISIBLE EXIT SIGN.
B. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED PER IBC 1011.4 AND 1011.5.
C. PROVIDE A TACTILE EXIT SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, EXTERIOR AREA FOR ASSISTED RESCUE, EXIT STAIRWAY, EXIT RAMP, EXIT PASSAGEWAY AND EXIT DISCHARGE.

12. POSTING OF OCCUPANT LOAD (FBC 1004.3):
EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE SPACE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED. SEE OCCUPANCY & EGRESS PLANS THIS SHEET FOR OCCUPANT LOADS.

13. ALL AUDIBLE AND VISUAL ALARMS SHALL COMPLY WITH PROVISIONS OF NFPA 72.

14. AREA OF REFUGE (ELEVATOR LOBBY) SHALL BE PROVIDED WITH TWO-WAY COMMUNICATION AS REQUIRED BY FFPC 7.2.12.1

BUILDING AREA CALCS

ALLOWABLE BUILDING AREAS:
R-1 ALLOWABLE PER FLOOR = UL (I-B)
(TABLE 506.2 TABULAR AREA)

ACTUAL BUILDING AREAS (GROSS):

FLOOR	AREA/FLR.	ALLOWABLE AREA
1ST FLOOR	15,621 S.F.	48,000 S.F.
2ND FLOOR	14,161 S.F.	48,000 S.F.
3RD FLOOR	14,161 S.F.	48,000 S.F.
4TH FLOOR	14,161 S.F.	48,000 S.F.
5TH FLOOR	14,161 S.F.	48,000 S.F.
TOTAL	72,265 S.F.	240,000 S.F.

AA C000606
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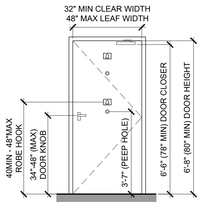
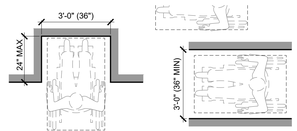
SHEET
LS1.1

OF



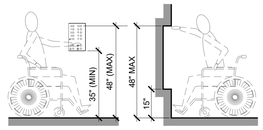
DOOR DIMS REQ

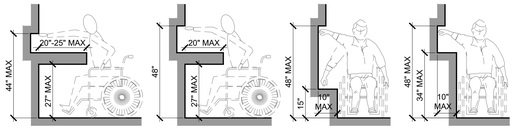
SCALE: 3/8" = 1'-0"



MANEUVERING CLEARANCES

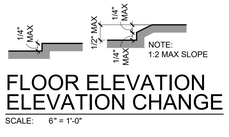
SCALE: 3/8" = 1'-0"





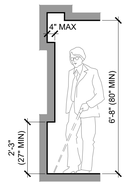
ADA REACH DIMENSION REQUIREMENTS

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



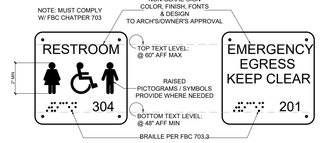
FLOOR ELEVATION ELEVATION CHANGE

SCALE: 6" = 1'-0"



OBSTRUCTION CLEARANCES

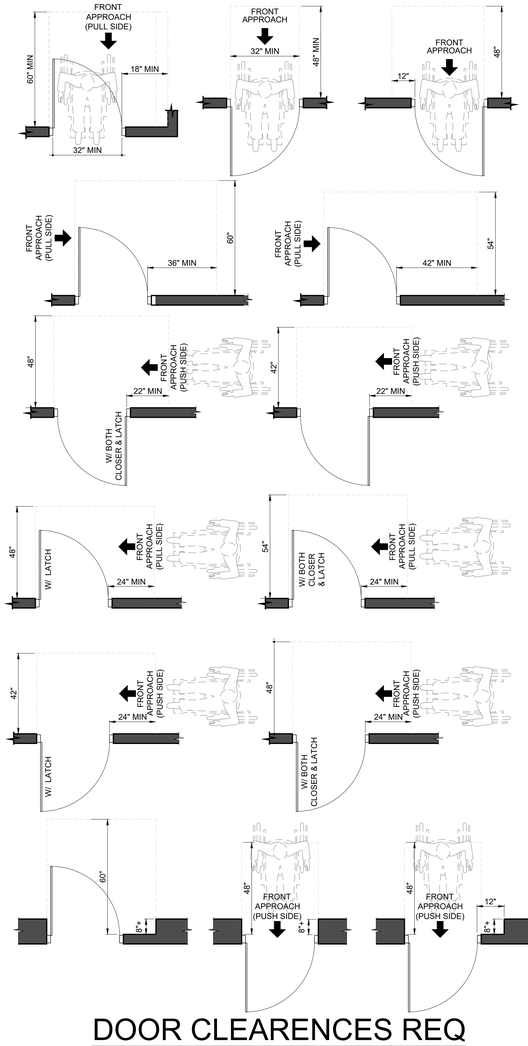
SCALE: 3/8" = 1'-0"



NOTE: PROVIDE ADDITIONAL SIGNS (TYPES S, HCS, FE OR FA) OF TYPE AND MESSAGE AS REQUIRED.

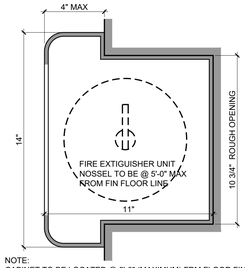
SIGNS DIMS & INSTALLATION REQ

SCALE: 4" = 1'-0"



DOOR CLEARENCES REQ

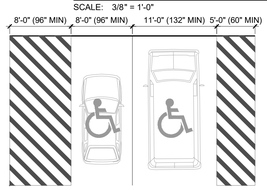
SCALE: 3/8" = 1'-0"



NOTE:
CABINET TO BE LOCATED @ 5'-0" (MAXIMUM) FRM FLOOR FINISH
FIRE RATED CABINET MUST BE PROVIDED
(SEE SPECS) FOR FIRE RATED WALLS
FOR UP TO 20ABC FE: PROVIDE 14" W x 30" H x 11"D - OPENING
FOR FIRE EXTINGUISHER CABINET
PROVIDE BUTT L SEALANT BET FEC8 & WALL ON BOTH SIDES
REFER TO WALL SCHEDULE FOR WALL TYPE

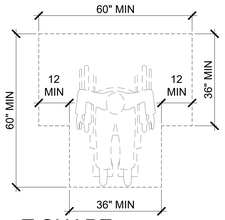
FIRE EXTINGUISHER CAB

SCALE: 3" = 1'-0"



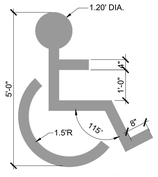
PARKING LOT DIMENSIONS

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



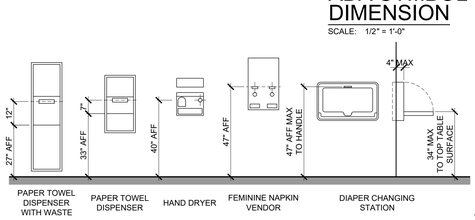
T SHAPE CLEARANCE DIM

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



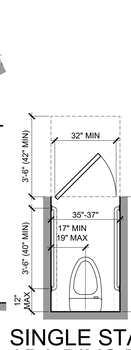
ADA SYMBOL DIMENSION

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



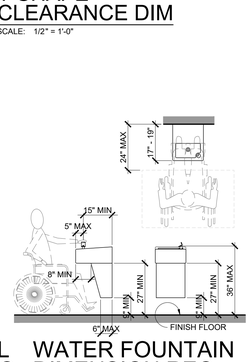
TOILET ACCESSORIES DIMS REQ

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



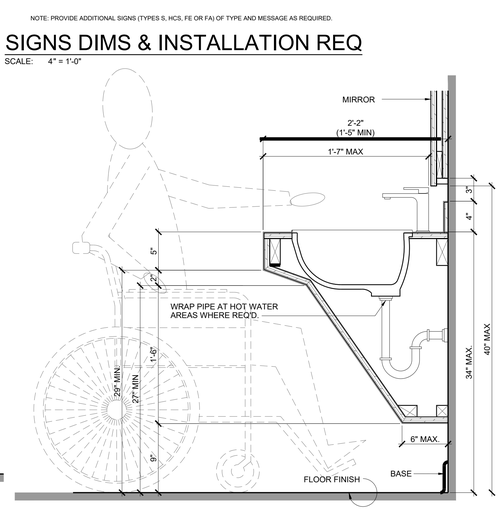
SINGLE STALL ADA DIMS REQ

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



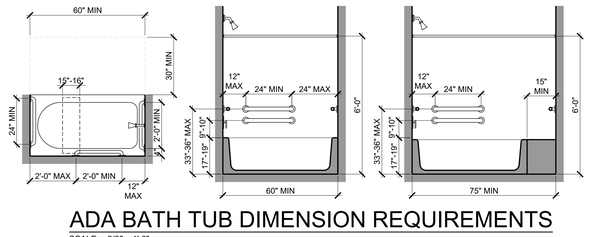
WATER FOUNTAIN DIMENSION REQ

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



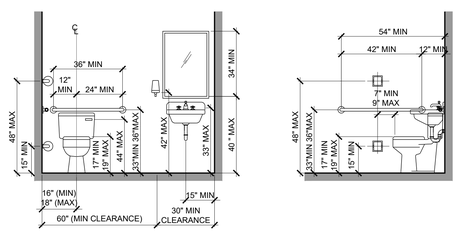
ADA AND SINK COUNTER DIMENSION REQ

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



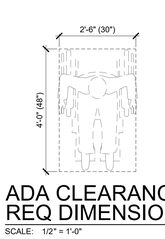
ADA BATH TUB DIMENSION REQUIREMENTS

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



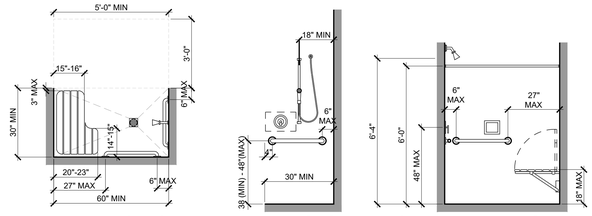
ADA TOILET PLAN ELEVATIONS DIMS REQ

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



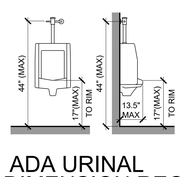
ADA CLEARANCE REQ DIMENSION

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



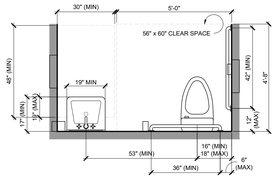
ADA SHOWER DIMENSION REQUIREMENTS

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



ADA URINAL DIMENSION REQ

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



ADA TOILET PLAN DIMS REQ

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

AA C0006606

HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-645-5202 FAX 407-645-5282

TOWNEPLACE SUITES®
BY MARRIOTT

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

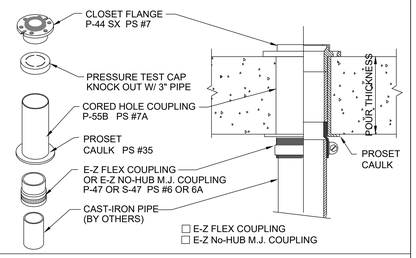
SHEET

LS1.3

OF

PROSEAL CLOSET STUB

PRECAST CONCRETE OR EXISTING CONCRETE FOR FLOORS



IMPORTANT NOTES :

1. Core a 4" hole for a 3" closet stub & a 5" hole for a 4" closet stub.
2. Install a bead of ProSet Caulk around the coupling flange to waterproof.
3. Insert & secure the cored hole coupling into the cored hole from the bottom.
4. Solvent cement the *E-Z Flex coupling to bottom of the stub, connect closet bend & tighten S.S. band.
4. Insert & solvent cement the **P-44-SX ProSeal closet flange into the top of stub and set toilet.
   ** A special P-44-HX ProSeal flange is available in a longer extention length if the finish floor is raised. The new elastomeric seal on this flange has been tested to hold a 10 ft. head of water pressure.

* See E-Z Flex installation instruction.

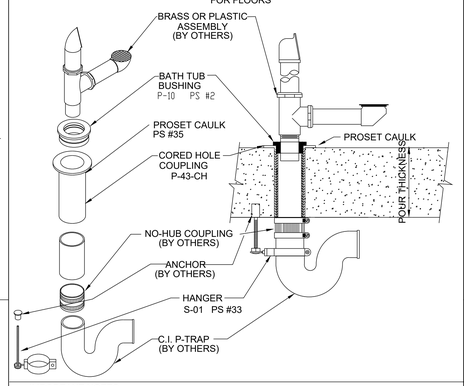
W.H. Directory Reference 99 Edition
Firestop Device
W.H. Design No. PS/PH 120-03
F Rating 2 or 3 Hrs.

PROSET SYSTEMS FIRESTOP PENETRATOR®

DATE : 3 - 1 - 02
DRG . NO . B-4402-D

TUB BOX ASSEMBLY

PRECAST CONCRETE OR EXISTING CONCRETE FOR FLOORS



IMPORTANT NOTES :

1. Drill a 2 3/4" cored hole for 2" coupling through the deck - Install a bead of caulk around the flange to waterproof.
2. Use above the floor rough tub or chip concrete down to fit W & O.
3. Insert & solvent cement the proper length CP-95 liner or P-90 pipe up into coupling.
4. Install the C.I. P-Trap to the liner fitting using a no-hub coupling & install the S-01 hanger to the P-Trap in a secure manner.
5. Use either a P25661 for pipe size or P25662 for tube size W & O.

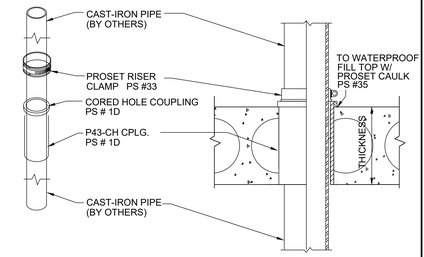
W.H. Directory Reference 97 Edition
Firestop Device
W.H. Design No. PS/PHV 120-04
F Rating 2 Hrs.

PROSET SYSTEMS FIRESTOP PENETRATOR®

DATE : 11-01-04
DRG . NO . B-6210-D

C.I. STACK STUB - OPTION 4

PRECAST CONCRETE OR EXISTING CONCRETE FOR FLOORS OR WALLS



IMPORTANT NOTES :

1. Core a 2 3/4" hole for 2" - 4" hole for 3" - 5" hole for 4" - 7" for 6".
2. Install a bead of ProSet Caulk around the coupling flange to waterproof.
3. Insert the cast iron pipe through the coupling.
4. Fill any void at top with ProSet Caulking to waterproof.
5. Install riser clamp around the pipe to support and draft stop. Clamp on both sides for walls.
6. When ordering riser clamp - Use suffix CI for cast iron pipe.
7. Use Black letter Sleeve Pipe for cast iron pipe.

Option 4. Use when cast iron pipe passes completely through the penetration, such as rainwater piping. Must install a ProSet Riser Clamp.

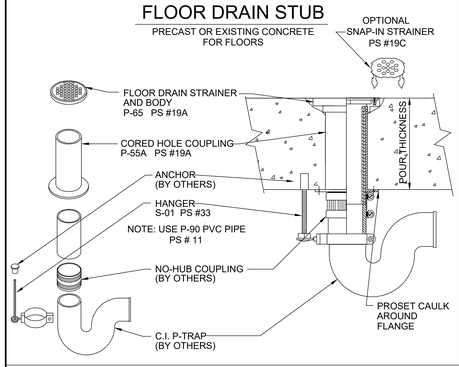
W.H. Directory Reference 97 Edition
Firestop Device
W.H. Design No. PS/PHV 180-01
F Rating 3 Hrs.

PROSET SYSTEMS FIRESTOP PENETRATOR®

DATE : 3 - 1 - 92
DRG . NO . B-4804-DHC

FLOOR DRAIN STUB

PRECAST OR EXISTING CONCRETE FOR FLOORS



IMPORTANT NOTES :

1. To size cored hole, see component drawing P-55A.
2. Core hole through the floor to fit coupling.
3. Install a bead of ProSet Caulk around coupling flange to waterproof.
4. Insert the coupling up through the cored hole, chip concrete down on top to fit the floor drain body and strainer.
5. Insert and solvent weld the proper length CP-95 liner or P-90 pipe into the bottom of the drain coupling.
6. Connect the no-hub P-trap to the liner pipe.
7. Install the S-01 hanger to the P-trap in a secure manner.

(OPTION) - A Snap-in Strainer can be used when the drain is not exposed to foot traffic or heavy loads.

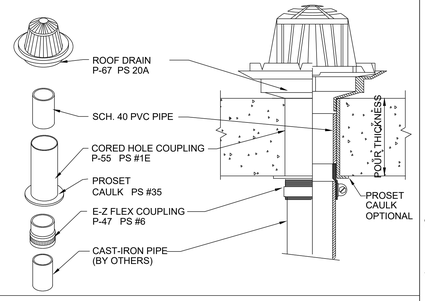
W.H. Directory Reference 99 Edition
Firestop Device
W.H. Design No. PS/PH 120-02
F Rating 2 Hrs.

PROSET SYSTEM FIRESTOP PENETRATOR™

DATE : 11-01-04
DRG . NO . B-6500-D

ROOF DRAIN

PRECAST CONCRETE OR EXISTING CONCRETE



IMPORTANT NOTES :

1. Core a 3" hole for a 2" drain, a 4" hole for a 3" drain and a 5" hole for a 4" Roof Drain.
2. Install a bead of ProSet Caulk around the coupling flange for optional waterproofing.
3. Insert the cored hole coupling into the cored hole from the bottom.
4. Insert & solvent weld the Roof Drain into the top of coupling with allowance for built-up roofing.

* 5. Insert & solvent weld the E-Z Flex into the bottom of the coupling

6. Connect the cast iron pipe into the E-Z Flex & tighten S.S. band.

Note: The Roof Drain with an attached sleeve coupling can be inserted from the top side with a #43 Mounting Flange cemented onto the sleeve coupling extension to fit tight against the ceiling so the Roof Drain is anchored into slab to prevent expansion/contraction problems.

* See E-Z Flex installation instruction sheet.

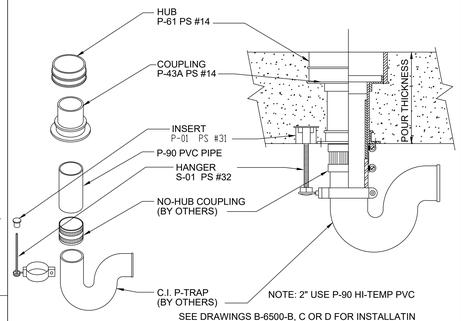
W.H. Directory Reference 99 Edition
Firestop Device
W.H. Design No. PS/PH 120-03
F Rating 2 Hrs.

PROSET SYSTEMS FIRESTOP PENETRATOR®

DATE : 11-01-04
DRG . NO . B-6720-D

PRECAST SHOWER OR HUB DRAIN STUB

CONCRETE ON WOOD FORM FOR FLOORS



SEE DRAWINGS B-6500-B, C OR D FOR INSTALLATIN IN TUNNEL FORM, METAL DECK OR EXISTING CONC.

IMPORTANT NOTES :

1. Use nails through flange holes to mount the hub drain to the deck.
2. Set the P-01 insert abutting against the mounting flange.
3. After the concrete pour, remove protective cap.
4. Insert & solvent weld the proper length CP-95 or P-90 pipe into the bottom of coupling.
5. Connect the P-Trap to the liner fitting or P-90 pipe using a E-Z no-hub coupling.
6. Install the S-01 hanger to the P-Trap in a secure manner.
7. After the pressure test, break out the knock out cap.
8. To connect a precast shower drain, insert & solvent weld a 2" PVC pipe into the coupling to extend up through the shower strainer, then use a jiffy joint between the strainer & the pipe.
9. For a hub drain, hub can be extended above floor, discharge branches into the hub.

W.H. Directory Reference 99 Edition
Firestop Device
W.H. Design No. PS/PH 120-02
F Rating 2 Hrs.

PROSET SYSTEM FIRESTOP PENETRATOR™

DATE : 11-01-04
DRG . NO . B-6100-A B-C OR D

SPECIAL INSPECTIONS

FLORIDA FIRE PREVENTION CODE, NFPA CHAPTER 12.32: QUALITY ASSURANCE PROGRAME FOR PENETRATIONS AND JOINTS:

1. SPECIAL INSPECTION OF THROUGH PENETRATION FIRE STOP SYSTEMS AND FIRE-RESISTENT JOINT SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 12.3.2.1 AND 12.2.3.2.
2. SPECIAL INSPECTIONS TO INCLUDE:
   THROUGH PENETRATIONS OF METALLIC AND NON-METALLIC PRIPING, CONDUIT, DUCTWORK, CABLING, VERTICAL TO HORIZONTAL CONSTRUCTION JOINTS AND GAPS BETWEEN STRUCTURAL MEMBERS AND WALL/FLOOR CONSTRUCTION

QUALITY ASSURANCE PROGRAM FOR PENETRATIONS AND JOINTS

1. IN COMPLIANCE WITH THE FLORIDA FIRE PREVENTION CODE (F.F.P.C.) THE OWNER OR REGISTERED DESIGN PROFESSIONAL (RDP) WILL E.PLY A SPECIAL INSPECTOR TO OBSERVE CONSTRUCTION OF THE RESISTIVE JOINT SYSTEMS COMPONENTS OF THE MENTIONED PROJECT.
2. RESPONSIBILITIES OF THE SPECIAL INSPECTOR.
   2.1. THE SPECIAL INSPECTOR WILL BE RESPONSIBLE TO THE ENFORCEMENT AGENCY AUTHORITY HAVING JURISDICTION (AHJ) AND WILL REPORT THEIR INSPECTION RESULTS IN ACCORDANCE WITH CURRENT GOVERNING FLORIDA FIRE PROTECTION CODE (F.F.P.C)
   2.2. A SPECIAL INSPECTOR MUST BE ONE OF THE FOLLOWING:
   2.2.1. A CERTIFIED CODE INSPECTOR OFFICIAL/INSPECTOR, LICENSED ARCHITECT OR ENGINEER, LICENSED PROFESSIONAL IN THE CONSTRUCTION INDUSTRY, CERTIFIED REPRESENTATIVE OF QUALITY ASSURANCE AGENCY OR ACCREDITED TESTING LABORATORY.
   2.2.2. A SPECIAL INSPECTOR MUST PRESENT CREDENTIALS TO BE ACCEPTED BY THE AUTHORITIES HAVING JURISDICTION (AHJ). THE SPECIAL INSPECTOR IS TO SUBMIT THE PROPOSED REPORT FORMAT DOCUMENTS TO AHJ.
3. THE SPECIAL INSPECTOR MUST PRESENT CREDENTIALS TO BE ACCEPTED BY THE AUTHORITIES HAVING JURISDICTION (AHJ). THE SPECIAL INSPECTOR IS TO SUBMIT THE PROPOSED REPORT FORMAT DOCUMENTS TO AHJ.
4. SPECIAL INSPECTOR SHALL BE COMPLETELY INDEPENDENT OF, AND DIVESTED FROM, THE INSTALLER, CONTRACTOR, MANUFACTURER OR SUPPLIER OF ANY MATERIAL BEING INSPECTED. THE SPECIAL INSPECTOR SHALL NOT BE A COMPETITOR OF THE INSTALLER, CONTRACTOR, MANUFACTURER OR SUPPLIER OF ANY MATERIALS BEING INSPECTED.
5. THE SPECIAL INSPECTOR IS RESPONSIBLE FOR OBSERVING AND VERIFYING THAT THE CONSTRUCTION OF THE FIRE STOP AND FIRE RESISTIVE JOINT SYSTEMS THAT COMPLIES WITH THE OFFICIAL CONTRACT DOCUMENTS, OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS, AND QUALITY ASSURANCE PROGRAM.
6. THE SPECIAL INSPECTOR MAY USE AS A REPRESENTATIVE TO PERFORM INSPECTION WORK. THE SPECIAL INSPECTOR UTILIZING AUTHORIZED REPRESENTATIVES SHALL INSURE THE AUTHORIZED REPRESENTATIVE IS QUALIFIED BY EDUCATION TO PERFORM THE DUTIES ASSIGNED BY THE SPECIAL INSPECTOR AND SHALL MAINTAIN RESPONSIBLE SUPERVISORY CONTROL OVER THE REPRESENTATIVE PURSUANT TO THE AHJ. THE SPECIAL INSPECTOR SHALL BE IN RESPONSIBLE CHARGE OF WORK OF THE AUTHORIZED REPRESENTATIVE, INCLUDING REVIEWING REPORTS AND SPOT CHECKS, THE SPECIAL INSPECTOR MUST PERSONALLY VISIT THE SITE AT THE POINTS DURING CONSTRUCTION WHICH HE DEEMS KEY TO THE INSPECTION PROGRAM.
7. THE SPECIAL INSPECTOR OR THEIR AUTHORIZED REPRESENTATIVE WILL VISIT THE PROJECT SITE AS REQUIRED BY THE CONSTRUCTION ACTIVITY TO INSPECT THE ELEMENTS DURING THE PROGRESS OF THE WORK.FURTHER, IT IS REQUIRED THAT THE SPECIAL INSPECTOR VISIT THE PROJECT ON A REGULATED PERIODIC BASIS DURING CONSTRUCTION OF ELEMENTS.
8. THE SPECIAL INSPECTOR WILL REPORT OBSERVATIONS OF MATERIALS, WORKMANSHIP OR OTHER FEATURES OF CONSTRUCTION DEVIATING FROM THE REQUIREMENTS OF THE OFFICIAL CONTRACT DOCUMENTS. GUIDELINES FOR OBSERVATIONS COVERING SPECIFIC SHALL COMPLETE INSPECTION REPORTS AFTER EACH INSPECTION, SIGN EACH REPORT AND FORWARD THEM TO THE BUILDING OFFICIAL WITH COPIES GOING TO THE ARCHITECT OF RECORD, ENGINEER, ENGINEER OF RECORD, OWNER AND CONTRACTOR REPORTS ARE TO BE SUBMITTED ON A MONTHLY BASIS.
9. QUALITY CONTROL INSPECTIONS AND TESTING BY AN INDEPENDENT TESTING LABORATORY ARE REQUIRED BY THE PROJECT SPECIFICATIONS AND VARIOUS INSPECTION AND TESTING STANDARDS STATED WITHIN SOME ELEMENTS AND WILL BE AVAILABLE TO THE SPECIAL INSPECTOR TO SUPPLEMENT THEIR OWN INSPECTIONS, THESE REPORTS MANY INCLUDE, BUT ARE NOT LIMITED TOT HE SOIL TESTING, CONCRETE TESTING AND STEEL TESTING.
10. THE ACCEPTANCE OF ANY FIRESTOP OF FIRE RESISTIVE COMPONENT BY THE SPECIAL INSPECTOR IN NO WAY RELIEVES THE CONTRACTOR OR RESPONSIBILITY FOR COMPLYING WITH HE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
11. NEITHER THE SPECIAL INSPECTOR OR THEIR AUTHORIZED REPRESENTATIVE SHALL MAKE ANY DESIGN DECISIONS OR DIRECT THE CONTRACTOR TO DEVIATE FROM THE APPROVED CONTRACT DOCUMENTS. ANY DEVIATION FROM THE APPROVED CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR IN A TIMELY MANNER, SO AS TO AVERT MY UNDUE EXPENSES. IF THE CONTRACTOR CORRECTS ANY DEVIATION TO THE SATISFACTION OF THE SPECIAL INSPECTOR, FOR FURTHER ACTION IS NECESSARY, IF THE DEVIATIONS ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTER DESIGN PROFESSIONAL(S) OF RECORD AND THE ENFORCING AGENCY.
12. THE SPECIAL INSPECTOR SHALL INSTITUTE QUALITY ASSURANCE PROCEDURES TO INCLUDE, BUT NOT LIMITED TO, REQUIRING UNSCHEDULED VISITS, UTILIZATION OF RELEVANT CHECK LISTS, USE OF AN INSPECTION REPORT AND ENSURING THAT THE INSPECTOR OF THE AUTHORIZED REPRESENTATIVE IS AT THE PROJECT WHENEVER SO REQUIRED BY THE QUALITY ASSURANCE PROGRAM.
13. THE SPECIAL INSPECTOR WILL MAINTAIN A WRITTEN RECORD OF QUALITY ASSURANCE PROGRAM BUILDING INSPECTION ACTIVITIES AND WILL RENDER SIGNED REPORTS PROMPTLY TO THE BUILDING OFFICIAL WITH COPIES TO THE OWNER, ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD AND THE CONTRACTOR INDIVIDUAL REPORTS MAY INCLUDE ANY OR ALL OF THE FOLLOWING:
   13.1. GENERAL REPORT OF CONSTRUCTION PROGRESS
   13.2. WEATHER CONDITIONS
   13.3. OTHER PERSONNEL PRESENT DURING THE INSPECTIONS.
   13.4. DETAILS CHECK OFF REPORTS ON SPECIFIC AREAS.
   13.5. REPORTS OF THE CORRECTIONS OF DEFICIENCIES PREVIOUSLY NOTED.
   13.6. SPECIAL TEST REPORTS, SKETCHES OF OTHER SUPPLEMENTAL DATA.
14. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION SERVICES AND OF TESTING WHICH IS IN ACCORDANCE TO THE FOLLOWING:
   14.1. FLORIDA FIRE PREVENTION CODE - 5TH EDITION
   14.2. FIRE CODE: CHAPTER 12, "FEATURES OF FIRE PROTECTION"
   14.3. SECTIONS 123.2 QUALITY ASSURANCE FOR PENETRATIONS AND JOINTS.
15. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTIONS SERVICES AND TESTING PER FOLLOWING STANDARDS:
   15.1. ASTM E 814, STANDARD TEST METHODS FOR FIRE TESTS OF THROUGH PENETRATION FIRE STOPS.
   15.2. OR ANSI/UL 1479, STANDARD FOR FIRE TESTS OF THROUGH PENETRATION FIRESTOPS.
   15.3. ASTM E 1966, STANDARD TEST METHOD FOR FIRE-RESISTIVE JOINT SYSTEMS
   15.4. OR ANSI/UL 2079 STANDARD TESTS FOR FIRE RESISTANCE OF BUILDING JOINT SYSTEMS.
   15.5. ASTM E 2393, STANDARD PRACTICE FOR ON-SITE INSPECTION OF INSTALLED FIR RESISTIVE JOINT SYSTEMS AND PERIMETER FIRE BARRIERS.
16. THE QUALITY ASSURANCE PROGRAM ALLOWS FOR GENERAL AND SPECIFIC ITEMS OF CONCERN. IT DOES NOT LIMIT THE SPECIAL INSPECTOR TO ONLY ITEMS LISTED. THE SPECIAL INSPECTOR'S JUDGEMENT MUST PREVAIL ON ITEMS NOT SPECIFICALLY COVERED.
17. THE SPECIAL INSPECTOR SHALL PROVIDE A FINAL CLOSING DOCUMENT CONTAINING ALL THE PREVIOUS REPORTS, CORRESPONDENCE AND INFORMATION FOR THE RDP TO REVIEW FOR COMPLIANCE OF THE ORIGINAL QUALITY ASSURANCE PROGRAM INTENT. CLOSING DOCUMENT SHALL BE SIGNED AND SEALED BY THE RDP THE SUBMITTED TO AHJ

RESPONSIBILITIES OF THE CONTRACTOR

1. THE CONTRACTOR SHALL FURNISH THE SPECIAL INSPECTOR AND KEEP CURRENT, A SCHEDULE OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR ## HOURS PRIOR TO THE NEED FOR AN INSPECTION. THE CONTRACTOR SHALL COVER ANY WORK NEEDING INSPECTIONS PRIOR TO INSPECTION BY THE SPECIAL INSPECTOR. THE CONTRACTOR SHALL MAKE ALL AREAS AVAILABLE AND SAFE FOR INSPECTION.
2. THE CONTRACTOR SHALL PROVIDE TO THE SPECIAL INSPECTOR A COPY OF EACH APPROVED SUBMITTAL RELATED TO THE FIRESTOP AND FIRE RESISTIVE JOINT SYSTEMS, MATERIALS AND COMPONENTS FOR USE IN VERIFYING PROPER CONSTRUCTION. SUCH SUBMITTALS SHALL INCLUDE, BUT NIT LIMITED TO THE FOLLOWING:
   2.1. CONTRACT DOCUMENTS, INCLUDING REVISIONS.
   2.2. FIRESTOP AND JOINT SHOP DRAWINGS AND PRODUCT DATA.
3. ALL SUBMITTALS PROVIDED TIO THE SPECIAL INSPECTOR SHALL BEAR THE STAMP AND INITIALS OF THE CONTRACTOR AND THE ARCHITECT OR ENGINEER OF RECORD.

SPECIAL INSPECTOR'S OBSERVATIONS

THE CONTRACT REQUIREMENTS FOR THIS PROJECT ARE CONTAINED IN THE OFFICIAL CONTRACT DOCUMENTS. THE FOLLOWING GUIDELINES SHOULD BE USED IN CONJUNCTION WITH A CAREFUL STUDY OF THE OFFICIAL CONTRACT DOCUMENTS.

1. REVIEW THE OFFICIAL CONTRACT DOCUMENTS TO BE SURE THAT THEY ARE APPROVED AND AVAILABLE BEFORE THE START OF THE PHASE OF THE STRUCTURAL WORK.
2. REVIEW WITH THE CONTRACTOR THE CONSTRUCTION PROCEDURE BEFORE THE START OF ANY PHASE OF THE STRUCTURAL WORK TO MAKE SURE THAT IT ACCOMMODATES THE DESIGN.
3. REVIEW WITH THE INDEPENDENT TESTING LABORATORY AND CONTRACTOR THE REQUIREMENTS AS TO THE TYPE OF INSPECTION AND TESTING THAT IS NECESSARY BEFORE THE START OF ANY PHASE OF STRUCTURAL WORK. ESTABLISH A CLEAR METHOD FOR MARKING ALL TESTED AND INSPECTED ITEMS. CONFIRM THAT THE TESTING AGENCY IS USING QUALIFIED PERSONNEL AND COMPLETING ALL TESTS AND INSPECTIONS IN A TIMELY AND PROFESSIONAL MANNER.
4. AFTER DELIVERY TO THE JOB. INSPECT STRUCTURAL MEMBERS FOR COMPLIANCE WITH THE OFFICIAL CONTRACT DOCUMENTS, DAMAGE AND FLAWS. CONFIRM THAT THE STRUCTURAL MEMBERS ARE BEING PROJECTED AND STORED PROPERLY.
5. VERIFY THAT ALL TEST, SAMPLING OR REPORTS HAVE BEEN COMOPLETED BEFORE FINISHED WORK IS COVERED AND NO LONGER CAPABLE OF BEING INSPECTED OR TESTED.
6. CONFIRM THE REPAIR AND TREATMENT OF AREAS CONTAINING DETECTIVE WORK

AA C000606

HARTER - ADAMS' P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-647-6767 FAX 407-647-3082

TOWNEPLACE SUITES® BY MARRIOTT

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

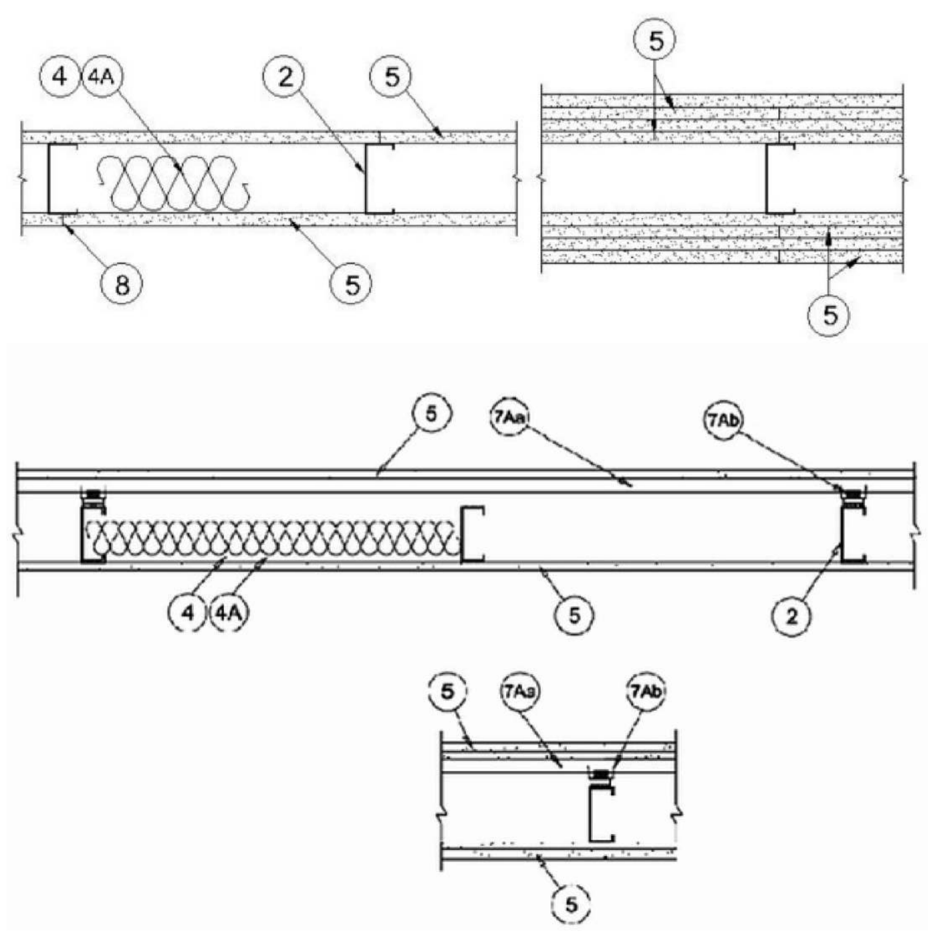
DATE

SHEET
LS1.4
OF

Design No. U419

September 13, 2019

NONBEARING WALL RATINGS — 1, 2, 3 OR 4 HR (SEE ITEMS 4 & 5 THROUGH 5K)
* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track
FUSION BUILDING PRODUCTS — Viper25™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track
FUSION BUILDING PRODUCTS — Viper20™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.
1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCWBS L L C — ProTRAK
MBA METAL FRAMING — ProTRAK
RAM SALES L L C — Ram ProTRAK
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100
FUSION BUILDING PRODUCTS — Viper20™ Track VT100
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — Viper25™ Track

1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — Viper20™ Track

1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STEEL INVESTMENT GROUP L L C — AlphaTRAK

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

OEG BUILDING MATERIALS — OEG Track

1O. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.
2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™
CRACO MFG INC — SmartStud25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™
FUSION BUILDING PRODUCTS — Viper25™
IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
FUSION BUILDING PRODUCTS — Viper20™
IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCWBS L L C — ProSTUD
MBA METAL FRAMING — ProSTUD
RAM SALES L L C — Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. Framing Members* — Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
TELLING INDUSTRIES L L C — Viper25™

2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights
TELLING INDUSTRIES L L C — Viper20™

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
STEEL INVESTMENT GROUP L L C — AlphaSTUD

2O. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.
4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4C. Fiber, Sprayed* — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.
USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.
UNITED STATES GYPSUM CO — Type SCX, SGX.
USG BORAL DRYWALL SFZ LLC — Type SCX
USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

CGC INC — Type USGX
UNITED STATES GYPSUM CO — Type USGX
USG BORAL DRYWALL SFZ LLC — Type USGX
USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX
USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE
USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX
UNITED STATES GYPSUM CO — Type ULX
USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-[illegible]2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.
7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

AA C000606

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ARCHITECTS AND PLANNERS
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TOWNEPLACE SUITES® BY MARRIOTT

TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET

LS1.5

OF

CONTINUED: Design No. U419

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

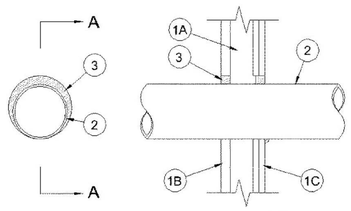
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

A.

System No. W-L-1380

THROUGH-PENETRATION FIRESTOP SYSTEM
January 22, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating —2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr

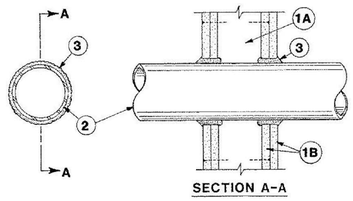


Section A-A

A. 1. WALL ASSEMBLY — THE 2 HR FIRE-RATED GYPSUM BOARD/STUD SHAFT WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCORPORATE THE FOLLOWING CONSTRUCTION FEATURES:
B. A. STEEL STUDS — "C-H" OR "C-T" SHAPED STUDS, MIN 2-1/2 IN. (64 MM) WIDE BY 1-1/2 IN. (38 MM) DEEP, FABRICATED FROM MIN NO. 25 GAUGE GALV STEEL, SPACED MAX 24 IN. (610 MM) OC.
C. B. GYPSUM BOARD* — 1 IN. (25 MM) THICK, 24 IN. (610 MM) WIDE GYPSUM LINER PANELS INSTALLED VERTICALLY. MAX DIAM OF CIRCULAR CUTOUT IN GYPSUM LINER PANEL IS 9-1/2 IN. (241 MM).
D. C. GYPSUM BOARD* — 1/2 IN. OR 5/8 IN. (13 OR 16 MM) THICK, 48 IN. (1.22 M) WIDE GYPSUM BOARDS. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF CIRCULAR CUTOUT IN GYPSUM BOARD IS 9-1/2 IN. (241 MM).
E. 2. THROUGH-PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 7/8 IN. (22 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
F. A. STEEL PIPE — NOM 8 IN. (203 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
G. B. IRON PIPE — NOM 8 IN. (203 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
H. C. CONDUIT — NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. (152 MM) DIAM STEEL CONDUIT.
I. D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
J. E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
K. 3. FILL, VOID OR CAVITY MATERIAL* - SEALANT — MIN 1 IN. (25 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH EACH SURFACE OF WALL. A MIN 1/2 IN. (13 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL ON THE FINISHED SIDE OF WALL.
L. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT, FS-ONE MAX INTUMESCENT SEALANT
M. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

System No. W-L-1001

THROUGH-PENETRATION FIRESTOP SYSTEM
June 15, 2005
F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient — less than 1 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



SECTION A–A

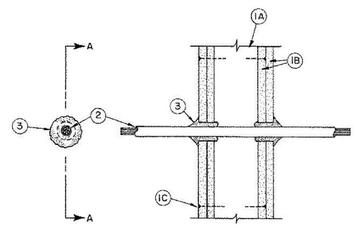
A. 1. WALL ASSEMBLY — THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
B. A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
C. B. GYPSUM BOARD* — NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. MAX DIAM OF OPENING IS 26 IN. (660 MM).
D. 2. THROUGH-PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
E. A. STEEL PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
F. B. IRON PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
G. C. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
H. D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
I. E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
J. F. THROUGH PENETRATING PRODUCT* — FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
K. 1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
L. OMEGA FLEX INC.
M. 2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
N. GASTITE, DIV OF TITEFLEX
O. 3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
P. WARD MFG L L C
Q. 3. FILL, VOID OR CAVITY MATERIAL* — CAULK OR SEALANT — MIN 5/8 , 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

ANSI/UL1479 (ASTM E814)	ANSI/UL1479 (ASTM E814)	ANSI/UL1479 (ASTM E814)
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

A. +When copper pipe is used, T Rating is 0 h.
B.
C. 3M COMPANY — CP 25WB+ or FB-3000 WT.
D.
E.
F. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-3001

THROUGH-PENETRATION FIRESTOP SYSTEM
September 07, 2004
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 3/4, 1, 1-1/2 and 2 Hr (See Item 2)
L Rating At Ambient — 15 CFM/sq ft (See Item 3)
L Rating At 400 F — less than 1 CFM/sq ft (See Item 3)January 22, 2015

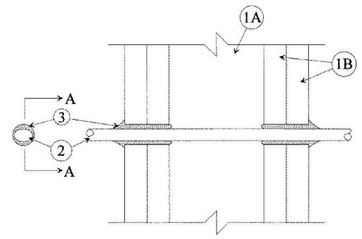


SECTION A–A

A. 1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
B. A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN OC.
C. B. GYPSUM BOARD* — NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. DIAM OF CIRCULAR THROUGH OPENING TO BE 3/8 IN. TO 5/8 IN. LARGER THAN OUTSIDE DIAM OF CABLE OR CABLE BUNDLE.
D. C. FASTENERS — WHEN WOOD STUD FRAMING IS EMPLOYED GYPSUM WALLBOARD LAYERS ATTACHED TO STUDS WITH CEMENT COATED NAILS AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN.
E. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
F. 2. CABLES — INDIVIDUAL CABLE OR MAX 1 IN. DIAM CABLE BUNDLE INSTALLED IN THROUGH OPENING WITH AN ANNULAR SPACE OF MIN 0 IN. (POINT CONTACT) TO MAX 3/4 IN. CABLE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
G. A. MAX 150 PAIR NO. 24 AWG COPPER CONDUCTOR TELEPHONE CABLE WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET MATERIALS. WHEN MAX 25 PAIR TELEPHONE CABLE IS USED, T RATING IS 2 HR. WHEN 50 TO 150 PAIR TELEPHONE CABLE IS USED IN 1 HR FIRE RATED WALL, T RATING IS 3/4 HR. WHEN 50 TO 150 PAIR TELEPHONE CABLE IS USED IN 2 HR FIRE RATED WALL, T RATING IS 1 HR.
H. B. MAX NO. 10 AWG MULTIPLE COPPER CONDUCTOR TYPE NM ("ROMEX") NONMETALLIC SHEATHED CABLE WITH PVC INSULATION AND JACKET MATERIALS. WHEN TYPE NM CABLE IS USED, MAX T RATING IS 1-1/2 HR.
I. C. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIAM OF 5/8 IN. WHEN FIBER OPTIC CABLE IS USED, MAX T RATING IS 2 HR.
J. D. MAX 12 AWG MULTICONDUCTOR (MAX SEVEN CONDUCTORS) POWER/CONTROL CABLE WITH CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND XLPE OR PVC JACKET MATERIALS. WHEN MULTICONDUCTOR POWER/CONTROL CABLE IS USED, MAX T RATING IS 2 HR.
K. E. MAX FOUR CONDUCTOR WITH GROUND NO. 2 AWG (OR SMALLER) ALUMINUM SER CABLES WITH POLYVINYL CHLORIDE INSULATION AMD JACKET MATERIALS.
L. 3. FILL, VOID OR CAVITY MATERIALS* — CAULK, SEALANT OR PUTTY — CAULK OR PUTTY FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN CABLE AND GYPSUM WALLBOARD ON BOTH SIDES OF WALL AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK OR PUTTY APPLIED TO PERIMETER OF CABLE(S) AT ITS EGRESS FROM EACH SIDE OF THE WALL.
M. 3M COMPANY — MP+ PUTTY, CP 25WB+ CAULK OR FB-3000 WT SEALANT. (NOTE: L RATINGS APPLY ONLY WHEN TYPE CP 25WB+ CAULK OR FB-3000 WT SEALANT IS USED.)
N. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

System No. W-L-3060

THROUGH-PENETRATION FIRESTOP SYSTEM
January 08, 2010
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 1-1/2 Hr (See Item 1)

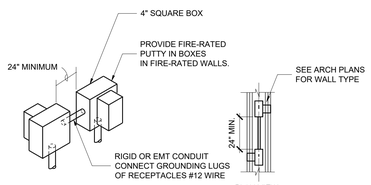


SECTION A-A

A. 1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
B. A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
C. B. GYPSUM BOARD* — 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 1/2 IN.
D. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS SHOWN IN THE TABLE:

Rating of Wall Hr	F Rating Hr	T Rating Hr
2	2	1-1/2
1	1	1

A. 2. CABLES — MAX 2/C (WITH GROUND) — 12 AWG (OR SMALLER) POLYVINYL CHLORIDE INSULATED AND JACKETED NONMETALLIC SHEATHED CABLE. ONE CABLE TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOM ANNULAR SPACE OF 1/4 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. CABLE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
B. 3. FILL, VOID OR CAVITY MATERIAL* — SEALANT — IN 2 HR FIRE-RATED ASSEMBLIES, MIN 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/2 IN. THICK CROWN IS FORMED AROUND THE PENETRATING ITEM. IN 1 HR FIRE-RATED ASSEMBLIES, MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1 IN. THICK CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING A MIN 1/2 IN. BEYOND THE PERIPHERY.
C. RECTORSEAL — FS 1900 SEALANT
D. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.



BACK TO BACK ELECTRICAL OUTLETS DETAIL
N.T.S.

NOTE:
1. BACK-TO-BACK OUTLET BOXES ON RATED WALLS AND PARTY WALLS SHALL BE SEPARATED BY A MINIMUM 24"
2. ASSURE SOUND ATTENUATION BATTS ARE PROVIDED BETWEEN UNITS

AA C000606

HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-647-2707 FAX 407-647-2082

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TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

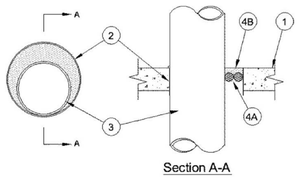
SHEET
LS1.6

OF

System No. C-AJ-1015

August 12, 2008

F Rating — 2 Hr; FT Rating — 0 Hr



Section A-A

1. FLOOR OR WALL ASSEMBLY — MIN 64 MM (2-1/2 IN.) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (1600-2400 KG/CU METER (100-150 PCF)) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 602 MM (27-5/8 IN.).

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. STEEL SLEEVE — (OPTIONAL) - CYLINDRICAL SLEEVE FABRICATED FROM 0.4 MM (0.016 IN.) THICK (30 GA) (OR HEAVIER) GALV STEEL AND HAVING A MIN 25 MM (1 IN.) LAP ALONG THE LONGITUDINAL SEAM. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENING, AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUT IN THE FLOOR OR WALL. ENDS OF SLEEVE TO BE FLUSH WITH FLOOR OR WALL SURFACES. AS AN OPTION, END OF SLEEVE MAY EXTEND MAX OF 13 MM (1/2 IN.) FROM BOTTOM SURFACE OF FLOOR.

3. THROUGH PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. AN ANNULAR SPACE OF MIN 0 MM (POINT CONTACT) TO MAX 48 MM (1-7/8 IN.) IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE — NOM 610 MM (24 IN.) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE — NOM 610 MM (24 IN.) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
C. CONDUIT — NOM 102 MM (4 IN.) DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT.
D. COPPER TUBING — NOM 152 MM (6 IN.) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
E. COPPER PIPE — NOM 152 MM (6 IN.) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL — (OPTIONAL) - FOAM BACKER ROD FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 13 MM (1/2 IN.) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL ASSEMBLY. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MIN 10 MM (3/8 IN.) DIAM BEAD OF SEALANT SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL ASSEMBLY.

TREMCO INC — TREMSTOP INTUMESCENT ACRYLIC OR TREMSTOP IA+

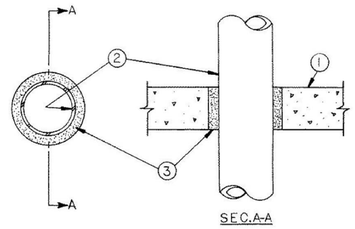
*BEARING THE UL CLASSIFICATION MARK

System No. C-AJ-1041

June 18, 1994

F Rating — 2 Hr

T Rating — 0 Hr



SEC.A-A

1. FLOOR OR WALL ASSEMBLY — MIN 3-1/4 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOM ANNULAR SPACE OF 3/4 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE — NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

B. CONDUIT — NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

3. FILL, VOID OR CAVITY MATERIAL* — PUTTY — MIN 3-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF FLOOR OR WALL.

EGS NELSON FIRESTOP — TYPE FSP PUTTY

*BEARING THE UL CLASSIFICATION MARK

System No. C-AJ-7012

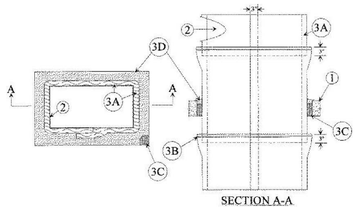
THROUGH-PENETRATION FIRESTOP SYSTEM

MARCH 24, 2017

F RATING — 3 HR

T RATING — 0 HR

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
	FH Rating - 2 Hr
T Rating - 2 Hr	FT Rating - 2 Hr
	FTH Rating - 2 Hr



SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED NORMAL WEIGHT (140-150 PCF OR 2240-2400 KG/M3) CONCRETE FLOOR OR MIN 4-3/4 IN.(121 MM) THICK REINFORCED NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 21.3 FT2. (1.98 M2) WITH MAX DIMENSION OF 93 IN. (2.36 M).
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH-PENETRANT — ONE STEEL DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES OF THROUGH-PENETRANTS MAY BE USED:
A. STEEL AIR DUCT — MIN 26 GAUGE (0.021 IN. OR 0.53 MM) THICK CARBON STEEL DUCT HAVING A MAX PERIMETER DIMENSION OF 216 IN. (5.5 M) AND A MAX INDIVIDUAL DIMENSION OF 84 IN. (2.13 M). DUCTS WITH ANY DIMENSION GREATER THAN 39 IN. (0.99 M) SHALL BE PROVIDED WITH INTERMEDIATE REINFORCEMENT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. REINFORCEMENT TO CONSIST OF MIN 1-1/2 IN. (38 MM) BY 1-1/2 IN. (38 MM) BY 1/8 IN. (3 MM) THICK TRANSVERSE STIFFENING ANGLES, APPROXIMATELY 2 IN. (51 MM) LESS IN LENGTH THAN THE MAX DIMENSION, SCREW ATTACHED 8 IN. (203 MM) OC TO THE DUCT 3 IN. (76 MM) BEYOND THE TOP SURFACE OF THE FLOOR AND BOTH SURFACES OF THE WALL.
3. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. DUCT WRAP MATERIALS* — NOM 1-1/2 IN (38 MM) THICK, 6 PCF (96 KG/M3) CERAMIC BLANKET TOTALLY ENCAPSULATED WITHIN FOIL-SCRIM FACERS. THE STEEL DUCT SHALL BE WRAPPED WITH ONE LAYER OF DUCT WRAP INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, MAINTAINING MIN 3 IN. (76 MM) TRANSVERSE AND LONGITUDINAL OVERLAPS. ALL CUT EDGES AND ENDS SHALL BE SEALED WITH 3 IN. (76 MM) WIDE PRESSURE SENSITIVE ALUMINUM FOIL TAPE. A NOM ANNULAR SPACE OF 3 IN. (76 MM) IS REQUIRED BETWEEN THE INSULATED DUCT AND THE PERIPHERY OF THE OPENING.
THERMAL CERAMICS INC — FIREMASTER FASTWRAP XL, FIREMASTER FASTWRAP+ OR PYROSCAT DUCT WRAP XL.

B. STEEL BANDING STRAPS* — MIN 1/2 IN. (13 MM) WIDE BY 0.015 IN. (0.38 MM) THICK CARBON STEEL BANDING STRAPS USED IN CONJUNCTION WITH MIN 1 IN. (25 MM) LONG STAINLESS STEEL CRIMP CLIPS. BANDING STRAPS SPACED A MAX 12 IN. (305 MM) OC AND 1-1/2 IN. (38 MM) FROM TRANSVERSE JOINTS OF DUCT WRAP.
C. PACKING MATERIAL — MIN 4 IN. (102 MM) THICKNESS OF UNFACED SCRAP DUCT WRAP MATERIAL OR MIN 3 PCF (48 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
D. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.
SPECIFIED TECHNOLOGIES INC — SPECSEAL SERIES SSS, SPECSEAL LC150, SPECSEAL LCI OR PENSIL 300 SEALANTS

TREMCO INC — FYRE-SIL SEALANT OR FYRE-SIL S/L SEALANT (FOR FLOOR ASSEMBLIES ONLY)

DAP PRODUCTS INC — DAP FIRE STOP FIRE-RATED SILICONE SEALANT

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

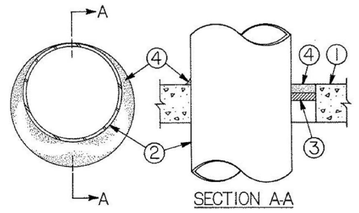
System No. C-AJ-1001

THROUGH-PENETRATION FIRESTOP SYSTEM

March 05, 2007

F Rating — 3 Hr

T Rating — 0 Hr



SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF CIRCULAR THROUGH OPENING IS 32-1/2 IN. (826 MM).

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE — (OPTIONAL, NOT SHOWN) — NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 IN. (51 MM) FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL. AS AN ALTERNATE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) SLEEVE FABRICATED FROM NOM 0.019 IN. (0.48 MM) THICK GALV STEEL CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY FLUSH WITH FLOOR OR WALL SURFACES.

2. THROUGH — PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM, POINT CONTACT) TO MAX 1-3/8 IN. (35 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE — NOM 30 IN. (762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

A1. IRON PIPE — NOM 30 IN. (762 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

B. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT.

C. CONDUIT — NOM 4 IN. (152 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

3. PACKING MATERIAL — POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF SOLID CONCRETE OR CONCRETE BLOCK WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAX PIPE SIZE IS 10 IN. (254 MM) DIAM AND WHEN MAX ANNULAR SPACE IS 1 IN. (25 MM), A MIN 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT PACKING MATERIAL MAY BE RECESSED MIN 1/2 IN. (13 MM) FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF SOLID CONCRETE WALL.

4. FILL, VOID OR CAVITY MATERIALS* — CAULK — APPLIED TO FILL THE ANNULAR SPACE TO THE MIN THICKNESS SHOWN IN THE FOLLOWING TABLE:

MAX PIPE DIAM IN.	MAX ANNULAR SPACE IN.	PACKING MTL TYPE (A)	MIN CAULK THKNS IN.
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13) (b)
10 (254)	1 (25)	CF or MW	1/2 (13) (c)
30 (762)	2-1/2 (64)	CF or MW	1 (25) (b)

(A) BR=POLYETHYLENE BACKER ROD.

CF=CERAMIC FIBER BLANKET.

GF=GLASS FIBER INSULATION.

MW=MINERAL-WOOL BATT.

(B) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL

(C) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF SOLID (NON-CONCRETE BLOCK) WALL

3M COMPANY — TYPE CP 25WB+ OR FB-3000 WT

(NOTE - W RATING APPLIES ONLY WHEN FB-3000 WT IS USED ON TOP SURFACE OF FLOOR AND WHEN IT LAPS ONTO CONCRETE FOR SLEEVED OPENING.)

*BEARING THE UL CLASSIFICATION MARK

System No. C-AJ-3021

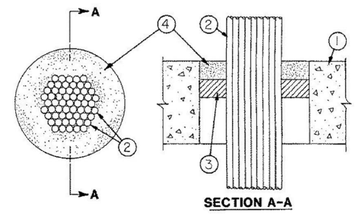
THROUGH-PENETRATION FIRESTOP SYSTEM

March 28, 2012

F Rating — 3 Hr

T Rating — 0 Hr

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6-1/4 IN. (159 MM).

SEE CONCRETE BLOCKS* (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE — (OPTIONAL, NOT SHOWN) — NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO FLOOR OR WALL ASSEMBLY. SLEEVE TO BE FLUSH WITH FLOOR OR WALL SURFACES.

2. CABLES — MIN 12 PERCENT TO MAX 40 PERCENT FILL AREA PER MAX 4 IN. (102 MM) DIAM STEEL SLEEVED THROUGH OPENING. MIN 20 PERCENT TO MAX 40 PERCENT FILL AREA PER MAX 6-1/4 IN. (159 MM) DIAM NON-SLEEVED THROUGH OPENING. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:

A. MAX 7/C NO. 12 AWG MULTIPLE COPPER CONDUCTOR POWER AND CONTROL CABLES WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET MATERIALS.

B. MULTIPLE FIBER OPTICAL COMMUNICATION CABLES JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIAM OF 3/4 IN.

C. MAX 200 PAIR NO. 24 AWG COPPER CONDUCTOR TELEPHONE CABLES WITH PVC INSULATION AND JACKET MATERIALS.

D. MAX 350 KCMIL POWER CABLES WITH PVC INSULATION AND JACKET MATERIAL.

3. PACKING MATERIAL — NOM 1 IN. (25 MM) THICKNESS OF CERAMIC (ALUMINUM SILICA) FIBER BLANKET OR MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED MIN 1 IN. (25 MM) FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL.

3A. FORMING MATERIAL* — AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 3, NOM 4 IN. (102 MM) WIDE STRIPS OF MIN 1/2 IN (13 MM) THICK COMPRESSIBLE MAT TO BE STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MIN 4 IN. (102 MM) DEPTH. AS AN OPTION, THE STRIPS OF MIN 1/2 IN. (13MM) THICK COMPRESSIBLE MAT MAY BE FOLDED IN HALF, LENGTHWISE, AND STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MIN 2 IN. (51 MM) DEPTH. TOP OF FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.

3M COMPANY 3M FIRE PROTECTION PRODUCTS — FIRE BARRIER PACKING MATERIAL

4. FILL, VOID, OR CAVITY MATERIALS* — PUTTY — MOLDABLE PUTTY MATERIAL KNEADED BY HAND AND APPLIED TO FILL ANNULAR SPACE (AND INTERSTICES BETWEEN CABLES TO MAX EXTENT POSSIBLE) TO A MIN DEPTH OF 1 IN. (25 MM), FLUSH WITH TOP SURFACE OF FLOOR OR SLEEVE IN WALL ASSEMBLIES, REQUIRED PUTTY DEPTH TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.

3M COMPANY 3M FIRE PROTECTION PRODUCTS — TYPE MPS-2+

*BEARING THE UL CLASSIFICATION MARK

AA C000606

HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-647-2707 FAX 407-647-2082

TOWNEPLACE SUITES®
BY MARRIOTT

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

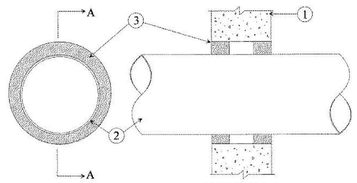
SHEET
LS1.7

OF

System No. W-J-1028

THROUGH-PENETRATION FIRESTOP SYSTEM
JANUARY 21, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
1 & 2 Hr (See Item 3)	F Rating — 1 & 2 Hr (See Item 3)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 & 2 Hr (See Item 3)
	FTH Rating — 0 Hr



SECTION A-A

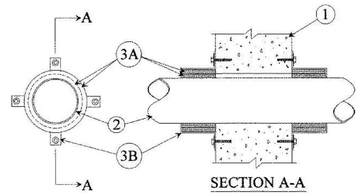
1. WALL ASSEMBLY — MIN 2-1/2 IN. (64 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 12-1/2 IN. (318 MM).
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH-PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 1/2 IN. (13 MM) TO MAX 7/8 IN. (22 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
A. STEEL PIPE — NOM 10 IN. (254 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. CONDUIT — NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT.
C. COPPER TUBING — NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
D. COPPER PIPE — NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 5/8 IN. (16 MM) OR 1-1/4 IN. (32 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL FOR 1 HR AND 2 HR FIRE-RATED WALLS, RESPECTIVELY.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S, CFS-S-SIL GG OR FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.
LAST UPDATED ON 2015-01-21

System No. W-J-2022

THROUGH-PENETRATION FIRESTOP SYSTEM
February 15, 2006
F Rating — 2 Hr T Rating — 1-1/2 Hr



SECTION A-A

1. WALL ASSEMBLY — MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 5 IN.
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

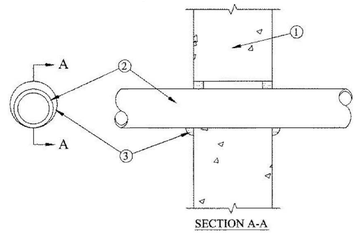
2. THROUGH PENETRANTS — ONE NONMETALLIC PIPE OR CONDUIT TO BE EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1/2 IN. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUIT MAY BE USED:
A. POLYVINYL CHLORIDE (PVC) PIPE — NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 CELLULAR OR SOLID CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE, OR VENT) PIPING SYSTEMS.
B CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE — NOM 4 IN. DIAM (OR SMALLER) SDR 13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
C. RIGID NONMETALLIC CONDUIT+ — NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE (NFPA 70).
3. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. FILL, VOID OR CAVITY MATERIAL* — WRAP STRIP — NOM 1/4 IN. THICK INTUMESCENT MATERIAL FACED ON BOTH SIDES WITH A PLASTIC FILM, SUPPLIED IN 1-1/2 IN. WIDE STRIPS. THE LAYERS OF WRAP STRIPS ARE INDIVIDUALLY WRAPPED AROUND THE THROUGH PENETRANT WITH ENDS BUTTED AND HELD IN PLACE WITH MASKING TAPE. BUTTED ENDS IN SUCCESSIVE LAYERS MAY BE ALIGNED OR OFFSET. THE EDGE OF THE WRAP STRIPS SHALL ABUT EACH SURFACE OF THE WALL. THE LAYERS OF WRAP STRIPS ARE INSTALLED ON EACH SIDE OF THE WALL. THE NUMBER OF LAYERS OF WRAP STRIP ARE DEPENDENT ON THE DIAM OF THE PIPE OR CONDUIT AS TABULATED BELOW:

DIAM OF THROUGH PENETRANT IN.	NUMBER OF WRAP STRIPS
4	2
3	2
2	1

A. SPECIFIED TECHNOLOGIES INC — SPECSEAL RED WRAP STRIP
B.
C.
D. C. STEEL COLLAR — COLLAR FABRICATED FROM COILS OF PRECUT 0.016 IN. THICK (NO. 30 MSG) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. COLLAR SHALL BE NOM 1-1/2 IN. DEEP WITH MIN FOUR 1 IN. WIDE BY 2 IN. LONG ANCHOR TABS FOR ATTACHMENT TO THE WALL. RETAINER TABS, 3/4 IN. WIDE TAPERING DOWN TO 1/4 IN. WIDE AND LOCATED OPPOSITE THE ANCHOR TABS, ARE FOLDED 90 DEGREE TOWARD THROUGH PENETRANT SURFACE TO MAINTAIN THE ANNULAR SPACE AROUND THE THROUGH PENETRANT AND TO RETAIN THE WRAP STRIPS. STEEL COLLAR WRAPPED AROUND WRAP STRIPS AND THROUGH PENETRANT WITH A 1 IN. WIDE OVERLAP ALONG ITS PERIMETER JOINT. STEEL COLLAR TIGHTENED AROUND WRAP STRIPS AND THROUGH PENETRANT USING MIN 1/2 IN. WIDE BY 0.028 IN. THICK STAINLESS STEEL HOSE CLAMP AT MIDHEIGHT OF STEEL COLLAR. AS AN ALTERNATE TO THE STEEL HOSE CLAMP, THE STEEL COLLAR MAY BE SECURED TOGETHER BY MEANS OF THREE NO. 8 STEEL SHEET METAL SCREWS. THE LENGTH OF THE STEEL SCREWS IS DEPENDENT UPON THE NUMBER OF LAYERS OF WRAP STRIP USED WITHIN THE STEEL COLLAR. FOR STEEL COLLARS INCORPORATING A SINGLE LAYER OF WRAP STRIP, THE LENGTH OF THE STEEL SCREWS SHALL BE 1/4 IN. LONG. FOR STEEL COLLARS INCORPORATING TWO OR MORE LAYERS OF WRAP STRIP, THE LENGTH OF THE STEEL SCREWS SHALL BE 3/8 IN. LONG. COLLAR SECURED TO WALL WITH 1/4 IN. DIAM BY MIN 1-1/4 IN. LONG STEEL CONCRETE ANCHORS IN CONJUNCTION WITH MIN 1 IN. DIAM STEEL FENDER WASHERS. STEEL COLLARS ARE INSTALLED ON EACH SIDE OF WALL.
E. +BEARING THE UL LISTING MARK
F.
G. *BEARING THE UL CLASSIFICATION MARKING

System No. W-J-2072

THROUGH-PENETRATION FIRESTOP SYSTEM
January 21, 2015
F Rating — 2 Hr
T Rating — 2 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft
L Rating at 400 F - 2 CFM/sq ft

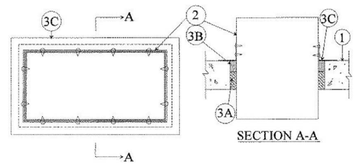


SECTION A-A

A. 1. WALL ASSEMBLY — MIN 5 IN. (127 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 3 IN. (76 MM).
B. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
C. 2. THROUGH PENETRANTS — ONE NONMETALLIC PIPE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO A MAX 5/8 IN. (16 MM). THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
D. A. POLYVINYL CHLORIDE (PVC) PIPE — NOM 2 IN. (51 MM) DIAM (OR SMALLER)CELLULAR OR SOLID CORE SCHEDULE 40 (OR HEAVIER) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
E. B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE — NOM 2 IN. (51 MM) DIAM (OR SMALLER) SDR 13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
F. C. CROSSLINKED POLYETHYLENE (PEX) TUBING — NOM 2 IN. (51 MM) DIAM (OR SMALLER) SDR 9 PEX TUBING FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
G. D. RIGID NONMETALLIC CONDUIT (RNC)+ — NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
H. 3. FILL, VOID OR CAVITY MATERIAL* - SEALANT — MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION, A MIN 1/2 IN. (13 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/PENETRANT INTERFACE ON BOTH SURFACES OF THE WALL.
I. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT
J. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.
K. + BEARING THE UL LISTING MARK

System No. C-AJ-7010

THROUGH-PENETRATION FIRESTOP SYSTEM
April 13, 1995
F Rating — 3 Hr
T Rating — 0 Hr



SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 6 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 325 SQ IN. WITH MAX DIMENSIONS OF 25 IN.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. STEEL DUCT — NOM 24 BY 12 IN. (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) STEEL DUCT. ONE DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM WITH A NOM 1/2 IN. ANNULAR SPACE. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL — MIN 3 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AND FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* — PUTTY — MIN 1-1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND BOTH SURFACES OF WALL.

EGS NELSON FIRESTOP — FSP PUTTY.

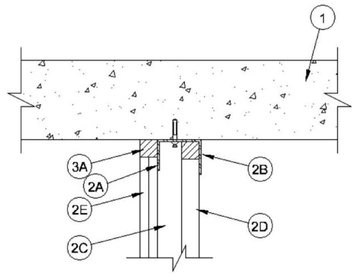
C. STEEL ANGLE — MIN 1-1/2 IN. WIDE BY 1-1/2 IN. HIGH BY 0.030 IN. (NO. 22 MSG) THICK GALV STEEL ANGLES CUT TO FIT THE CONTOUR OF THE DUCT WITH A 1 IN. LAP ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. LEGS OF ANGLES SECURED TO DUCT WITH MIN NO. 12 SHEET METAL SCREWS, SPACED A MAX 4 IN. OC.

*BEARING THE UL CLASSIFICATION MARK

System No. HW-D-0342

JOINT SYSTEM
May 09, 2019

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
Assembly Rating — 2 Hr	F Rating — 2 Hr
Nominal Joint Width - 1 In.	FT Rating — 2 Hr
Class II Movement Capabilities — 8% Compression and Extension	FH Rating — 2 Hr
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 1 In.
	Class II Movement Capabilities — 8% Compression and Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*.
See Precast Concrete Units category in the Fire Resistance Directory for names of manufactures.

2. Shaft Wall Assembly — The 2 hr fire-rated gypsum board /steel stud shaft wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Floor and Ceiling Runners — J-shaped runner, 2-1/2 in. (64 mm) wide with unequal legs of min 1-1/4 in. (32 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 24 in. (610 mm) OC.
B. Light Gauge Framing* - Slotted Ceiling Track — (Optional) Slotted ceiling track shall consist of galv steel channels with slotted flanges. Slotted ceiling track sized to accommodate steel "C-H" studs (Items 2C). Attached to concrete at ceiling with steel fasteners spaced max 24 in. (610 mm) OC.
CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

B1. Light Gauge Framing Members* — (Optional Not Shown) - As an option, the steel studs (Item 2C) may incorporate vertical deflection clips for attachment to the ceiling runner (Item 2A) in accordance with the manufacturer's instructions.
THE STEEL NETWORK INC — VertiClip SLD 150.

C. Steel Studs — C-H-shaped studs, 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min 25 MSG galv steel, cut to lengths 3/8 to 1/2 in. (10 to 13 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC. Studs nest in floor runner at bottom and J runner or slotted ceiling track at top. After installation of gypsum board liner panels (Item 2D), studs secured to flange of floor runner on finished side of wall only with No. 6 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to flange of slotted ceiling track on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping wafer head steel screws at slot midheight.
D. Gypsum Board* — 1 in. (25 mm) thick by 24 in. (610 mm) wide gypsum board liner panels as specified in the individual U400 or V400-Series design. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Vertical edges inserted in "H"-shaped section of "C-H" studs. At the ends of the assembly, the free edge of the end panels are attached to the long leg of vertical J-runners (Item 2A) with 1-5/8 in. (41 mm) long Type S steel screws spaced max 12 in. (305 mm) OC.
E. Gypsum Board* — Gypsum board sheets, 1/2 or 5/8 in. (13 or 16 mm) thick, applied vertically or horizontally in two layers on finished side of wall as specified in the individual U400 or V400-Series design. A max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the concrete floor. The screws attaching the gypsum board layers to the C-H studs shall be located 1 in. (25 mm) below the bottom of the J-runner or slotted ceiling track. No gypsum board attachment screws are to penetrate the ceiling J-runner and slotted ceiling track.
3. Joint System — Max separation between top of liner panel (Item 2D) and between top of gypsum board sheets (Item 2E) at time of installation of joint system is 1 in. (25 mm). The joint system is designed to accommodate a maximum 8 percent compression and extension from its installed width. The joint system consists of the following:
A. Fill, Void or Cavity Material* - Sealant — Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board liner panel (Item 2D) and top inside surface of ceiling J-runner or slotted ceiling track prior to installation of gypsum board (ItemD2E) on finished side of wall. Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board sheets (Item 2E) and bottom of concrete floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606, CFS-S SIL GG

AA C000606

HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-647-2707 FAX 407-647-2082

TOWNEPLACE SUITES®
BY MARRIOTT

TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

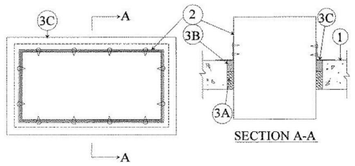
SHEET
LS1.8
OF

System No. C-AJ-7010

April 13, 1995

F Rating — 3 Hr

T Rating — 0 Hr



1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 6 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 325 SQ IN. WITH MAX DIMENSIONS OF 25 IN.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. STEEL DUCT — NOM 24 BY 12 IN. (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) STEEL DUCT. ONE DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM WITH A NOM 1/2 IN. ANNULAR SPACE. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL — MIN 3 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AND FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* — PUTTY — MIN 1-1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND BOTH SURFACES OF WALL.

EGS NELSON FIRESTOP — FSP PUTTY.

C. STEEL ANGLE — MIN 1-1/2 IN. WIDE BY 1-1/2 IN. HIGH BY 0.030 IN. (NO. 22 MSG) THICK GALV STEEL ANGLES CUT TO FIT THE CONTOUR OF THE DUCT WITH A 1 IN. LAP ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. LEGS OF ANGLES SECURED TO DUCT WITH MIN NO. 12 SHEET METAL SCREWS, SPACED A MAX 4 IN. OC.

*BEARING THE UL CLASSIFICATION MARK

Design No. U905

MARCH 02, 2020

BEARING WALL RATING — 2 HR.
NONBEARING WALL RATING — 2 HR
THIS DESIGN WAS EVALUATED USING A LOAD DESIGN METHOD OTHER THAN THE LIMIT STATES DESIGN METHOD (E.G., WORKING STRESS DESIGN METHOD). FOR JURISDICTIONS EMPLOYING THE LIMIT STATES DESIGN METHOD, SUCH AS CANADA, A LOAD RESTRICTION FACTOR SHALL BE USED — SEE GUIDE BXUV OR BXUV7

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

1. CONCRETE BLOCKS* — VARIOUS DESIGNS. CLASSIFICATION D-2 (2 HR).
SEE CONCRETE BLOCKS CATEGORY FOR LIST OF ELIGIBLE MANUFACTURERS.

2. MORTAR — BLOCKS LAID IN FULL BED OF MORTAR, NOM. 3/8 IN. THICK, OF NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS STAGGERED.
3. PORTLAND CEMENT STUCCO OR GYPSUM PLASTER — ADD 1/2 HR TO CLASSIFICATION IF USED. WHERE COMBUSTIBLE MEMBERS ARE FRAMED IN WALL, PLASTER OR STUCCO MUST BE APPLIED ON THE FACE OPPOSITE FRAMING TO ACHIEVE A MAX. CLASSIFICATION OF 1-1/2 HR. ATTACHED TO CONCRETE BLOCKS (ITEM 1).
4. LOOSE MASONRY FILL — IF ALL CORE SPACES ARE FILLED WITH LOOSE DRY EXPANDED SLAG, EXPANDED CLAY OR SHALE (ROTARY KILN PROCESS), WATER REPELLANT VERMICULITE MASONRY FILL INSULATION, OR SILICONE TREATED PERLITE LOOSE FILL INSULATION ADD 2 HR TO CLASSIFICATION.
5. FOAMED PLASTIC* — (OPTIONAL-NOT SHOWN) — 1-1/2 IN. THICK MAX, 4 FT WIDE SHEATHING ATTACHED TO CONCRETE BLOCKS (ITEM 1).
ATLAS ROOFING CORP — "ENERGYSHIELD PRO WALL INSULATION", "ENERGYSHIELD PRO 2 WALL INSULATION", ENERGYSHIELD CGF PRO AND ENERGYSHIELD PLY PRO

CARLISLE COATINGS & WATERPROOFING INC — TYPE R2+ SHEATHE

DUPONT DE NEMOURS, INC. — TYPES THERMAX SHEATHING, THERMAX LIGHT DUTY INSULATION, THERMAX HEAVY DUTY INSULATION, THERMAX METAL BUILDING BOARD, THERMAX WHITE FINISH INSULATION, THERMAX CI EXTERIOR INSULATION, THERMAX XARMOR CI EXTERIOR INSULATION, THERMAX IH INSULATION, THERMAX PLUS LINER PANEL, THERMAX HEAVY DUTY PLUS (HDP), TUFF-R™ CI INSULATION, THERMAX BUTLER STYLWALL INSULATION BOARD AND THERMAX MORTON HEAVY DUTY INSULATION BOARD

FIRESTONE BUILDING PRODUCTS CO L L C — "ENVERGE™ CI FOIL EXTERIOR WALL INSULATION" AND "ENVERGE™ CI GLASS EXTERIOR WALL INSULATION"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — TYPES "XCI-CLASS A", "XCI FOIL (CLASS A)", "XCI 286"

RMAX OPERATING L L C — TYPES "TSX-8500", "ECOMAXCI FR", "TSX-8510", "ECOMAX XI FR WHITE", "ECOMAXCI", "ECOMAXCI FR AIR BARRIER", "THERMASHEATH-XP", "THERMASHEATH", "DURASHEATH", "THERMASHEATH-3", "DURASHEATH-3".

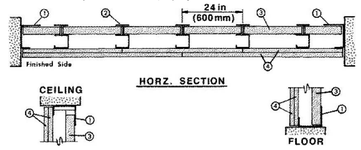
5A. BUILDING UNITS — AS AN ALTERNATE TO ITEMS 5, MIN. 1-IN THICK POLYISOCYANURATE COMPOSITE FOAMED PLASTIC INSULATION BOARDS, NOM. 48 BY 48 OR 96 IN.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "XCI NB", "XCI PLY"

RMAX OPERATING L L C — "THERMASHEATH-SI", "ECOBASECI", "THERMABASE-CI", "ECOMAXCI FR PLY", "ECOMAXCI PLY".

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

Design No. U438

March 12, 2020
Nonbearing Wall Rating — 2 HR.
* Indicates such products shall bear the UL or cUL Certification Mark
* for jurisdictions employing the UL or cUL Certification



1. FLOOR AND CEILING RUNNERS — "J" -SHAPED RUNNER, 2-1/2 IN. WIDE WITH UNEQUAL LEGS OF 1 IN. AND 2 IN., FABRICATED FROM 24 MSG GALV STEEL (MIN 20 MSG WHEN ITEM 4B IS USED). RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. RUNNERS ATTACHED TO STRUCTURAL SUPPORTS WITH STEEL FASTENERS LOCATED NOT GREATER THAN 2 IN. FROM ENDS AND NOT GREATER THAN 24 IN. OC.
2. STEEL STUDS — "C-H" -SHAPED STUDS, 2-1/2 IN. WIDE BY 1-1/2 IN. DEEP, FABRICATED FROM 25 MSG GALV STEEL (MIN 20 MSG WHEN ITEM 4B, 4D, OR 4E IS USED). CUT TO LENGTHS 3/8 TO 1/2 IN. LESS THAN FLOOR TO CEILING HEIGHT AND SPACED 24 IN. OR 600 MM OC (MAX 16 IN. OC WHEN ITEMS 4B, 4D, 4E IS USED).
2A. STEEL STUDS — (NOT SHOWN)-"E" -SHAPED STUDS INSTALLED IN PLACE OF "C-H" -SHAPED STUDS (ITEM 2) TO SECURE THE CLOSURE LINER PANELS AT THE ENDS OF WALLS. FABRICATED FROM 25 MSG GALV STEEL (MIN 20 MSG WHEN ITEM 4B, 4D, OR 4E IS USED), 2-1/2 IN. WIDE, WITH ONE LEG 1 IN. LONG AND TWO LEGS 3/4 IN. LONG, SHORTER LEGS 1 IN. APART TO ENGAGE GYPSUM LINER PANELS. CUT TO LENGTHS 3/8 IN. LESS THAN FLOOR TO CEILING HEIGHT. SILL AND LINTEL OF OPENING FORMED WITH "J" -SHAPED RUNNERS (ITEM 1) SECURED TO "E" -SHAPED STUDS WITH ANGLE CLIPS AND STEEL SCREWS.
3. GYPSUM BOARD* — 1 IN. THICK GYPSUM WALLBOARD LINER PANELS, SUPPLIED IN NOM 24 IN. OR 600 MM (FOR METRIC SPACING) WIDTHS. PANELS CUT 1 IN. LESS IN LENGTH THAN FLOOR TO CEILING HEIGHT. VERTICAL EDGES INSERTED IN "H" -SHAPED SECTION OF "C-H" STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF "J" -RUNNERS WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12 IN. OC.
CGC INC — TYPE SLX.

UNITED STATES GYPSUM CO — TYPE SLX.
USG BORAL DRYWALL SFZ LLC — TYPE SLX
USG MEXICO S A DE C V — TYPE SLX.

4. GYPSUM BOARD* — 1/2 IN. THICK, 4 FT. OR 1200 MM (FOR METRIC SPACING) WIDE WALLBOARD APPLIED VERTICALLY IN TWO LAYERS. INNER OR BASE LAYER ATTACHED TO STUDS WITH 1 IN. LONG TYPE S STEEL SCREWS SPACED 24 IN. OC ALONG THE EDGES AND IN THE FIELD OF THE BOARDS. OUTER OR FACE LAYER ATTACHED TO STUDS AND "J" -RUNNERS WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS SPACED 12 IN. ALONG THE EDGES AND IN THE FIELD OF THE BOARDS, STAGGERED FROM SCREWS IN INNER LAYER. JOINTS BETWEEN INNER AND OUTER LAYERS STAGGERED.
OUTER LAYER JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND. EXPOSED SCREW HEADS COVERED WITH JOINT COMPOUND.

AS AN ALTERNATE METHOD, INNER WALLBOARD LAYER APPLIED VERTICALLY. OUTER WALLBOARD LAYER APPLIED HORIZONTALLY. INNER LAYER ATTACHED TO STUDS WITH 1 IN. TYPE S STEEL SCREWS SPACED 24 IN. OC ALONG VERTICAL EDGES AND IN THE FIELD. OUTER LAYER ATTACHED TO THE STUDS AND "J" RUNNERS OVER THE INNER LAYER WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS SPACED 12 IN. OC IN THE FIELD. ALONG THE VERTICAL EDGES AND TO THE FLOOR AND CEILING RUNNERS. OUTER LAYER SECURED TO INNER LAYER WALLBOARD WITH 1-1/2 IN. LONG TYPE G STEEL SCREWS LOCATED MIDWAY BETWEEN STUDS AND 1 IN. FROM THE HORIZONTAL JOINT.

AMERICAN GYPSUM CO — TYPES AG-C .
CABOT MANUFACTURING ULC — TYPE C
CERTAINTEED GYPSUM INC — TYPE C
CGC INC — TYPE C, IP-X2, OR WRC.
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — TYPE LGFC-C/A.
GEORGIA-PACIFIC GYPSUM L L C — TYPES 5, DAPC, TG-C.
NATIONAL GYPSUM CO — TYPES EXP-C, FSK-C, FSW-C, FSMR-C.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — TYPES PG-C.

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — TYPE GYPROC FIRESTOP, GYPROC FIRESTOP MR, GYPROC FIRESTOP M2TECH, GYPROC FIRESTOP ACTIV'AIR, GYPROC FIRESTOP MR ACTIV'AIR, GYPROC FIRESTOP M2TECH ACTIV'AIR

THAI GYPSUM PRODUCTS PCL — TYPE C.
UNITED STATES GYPSUM CO — TYPE C, IP-X2 OR WRC.
USG BORAL DRYWALL SFZ LLC — TYPE C
USG MEXICO S A DE C V — TYPE C, IP-X2 OR WRC.

4A. GYPSUM BOARD* — (AS AN ALTERNATE TO ITEM 4) — 5/8 IN. THICK GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. INNER OR BASE LAYER ATTACHED TO STUDS WITH 1 IN. LONG TYPE S OR S-12 STEEL SCREWS SPACED 24 IN. OC WHEN INSTALLED VERTICALLY OR 16 IN. OC WHEN INSTALLED HORIZONTALLY. OUTER OR FACE LAYER ATTACHED TO STUDS WITH 1-5/8 IN. LONG TYPE S OR S-12 STEEL SCREWS SPACED 12 IN. OC WHEN INSTALLED VERTICALLY AND STAGGERED 12 IN. FROM BASE LAYER SCREWS OR 8 IN. OC WHEN INSTALLED HORIZONTALLY AND STAGGERED 8 IN. FROM BASE LAYER SCREWS. HORIZONTAL JOINTS BETWEEN INNER AND OUTER LAYERS STAGGERED A MIN OF 12 IN. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED 24 IN. OUTER LAYER JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND. EXPOSED SCREW HEADS COVERED WITH JOINT COMPOUND. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM BOARDS ARE SUPPLIED WITH SQUARE EDGES. WHEN USED IN WIDTHS OTHER THAN 48 IN., GYPSUM PANELS TO BE INSTALLED HORIZONTALLY.
CGC INC — TYPE AR, IP-AR, IP-X1, SCX, ULX, OR WRX.

UNITED STATES GYPSUM CO — TYPE AR, FRX-G, IP-AR, IP-X1, SCX, ULX OR WRX.
USG BORAL DRYWALL SFZ LLC — TYPE SCX
USG MEXICO S A DE C V — TYPE AR, IP-AR, IP-X1, SCX, ULX, OR WRX.

4B. GYPSUM BOARD* — (NOT SHOWN) - MAY BE USED IN LIEU OF ITEMS 4 OR 4A FOR THE BASE LAYER - NOM 5/8 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN 1 STUD CAVITY ON OPPOSITE SIDES OF STUDS. WALLBOARD SECURED TO STUDS WITH 1-1/4 IN. LONG TYPE S-12 STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE FIELD. LEAD BATTEN STRIPS (ITEM 6) REQUIRED BEHIND VERTICAL JOINTS.
RAY-BAR ENGINEERING CORP — TYPE RB-LBG

4C. GYPSUM BOARD* — (AS AN ALTERNATE TO ITEM 4, 4A, 4B) — 5/8 IN. THICK. TWO LAYERS INSTALLED AS DESCRIBED IN ITEM 4.
NATIONAL GYPSUM CO — TYPE FSMR-C.

4D. GYPSUM BOARD* — (NOT SHOWN) - MAY BE USED IN LIEU OF ITEMS 4 FOR THE BASE LAYER - NOM 5/8 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN 1 STUD CAVITY ON OPPOSITE SIDES OF STUDS. WALLBOARD SECURED TO STUDS WITH 1-1/4 IN. LONG TYPE S-12 STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE FIELD. LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS. TO BE USED WITH LEAD BATTEN STRIPS (SEE ITEM 6B) OR LEAD DISCS (SEE ITEM 6C).
MAYCO INDUSTRIES INC — TYPE X-RAY SHIELDED GYPSUM

4E. GYPSUM BOARD* — (NOT SHOWN) - MAY BE USED IN LIEU OF ITEMS 4 FOR THE BASE LAYER. NOM 5/8 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN 1 STUD CAVITY ON OPPOSITE SIDES OF STUDS. WALLBOARD SECURED TO STUDS WITH 1-1/4 IN. LONG TYPE S-12 STEEL SCREWS GYPSUM PANEL STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE FIELD. LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD AND OPTIONAL AT REMAINING STUD LOCATIONS. LEAD BATTEN STRIPS, MIN 2 IN. WIDE, MAX 8 FT LONG WITH A MAX THICKNESS OF 0.14 IN. PLACED ON THE FACE OF STUDS AND ATTACHED TO THE STUD WITH CONSTRUCTION ADHESIVE AND TWO 1 IN. LONG TYPE S-12 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP. LEAD DISCS, NOMINAL 3/8 IN. DIAM BY MAX 0.085 IN. THICK. COMPRESSION FITTED OR ADHERED OVER THE SCREW HEADS. LEAD BATTEN STRIPS AND DISCS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C".
RADIATION PROTECTION PRODUCTS INC — TYPE RPP - LEAD LINED DRYWALL

4F. GYPSUM BOARD* — (AS AN ALTERNATE TO ITEM 4) — 5/8 IN. THICK GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. INNER OR BASE LAYER ATTACHED TO STUDS WITH 1 IN. LONG TYPE S OR S-12 STEEL SCREWS SPACED 24 IN. OC WHEN INSTALLED VERTICALLY OR 16 IN. OC WHEN INSTALLED HORIZONTALLY. OUTER OR FACE LAYER ATTACHED TO STUDS WITH 1-5/8 IN. LONG TYPE S OR S-12 STEEL SCREWS SPACED 8 IN. OC WHEN INSTALLED VERTICALLY AND STAGGERED MIN. 8 IN. FROM BASE LAYER SCREWS OR 8 IN. OC WHEN INSTALLED HORIZONTALLY AND STAGGERED MIN. 6 IN. FROM BASE LAYER SCREWS. HORIZONTAL JOINTS BETWEEN INNER AND OUTER LAYERS NEED NOT TO BE STAGGERED. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED 24 IN. OUTER LAYER JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND. EXPOSED SCREW HEADS COVERED WITH JOINT COMPOUND. WHEN USED IN WIDTHS OTHER THAN 48 IN., GYPSUM PANELS TO BE INSTALLED HORIZONTALLY.
UNITED STATES GYPSUM CO — TYPE ULIX.

5. BATTS AND BLANKETS* — (OPTIONAL) — (NOT SHOWN) — MINERAL WOOL OR GLASS FIBER BATTS PARTIALLY OR COMPLETELY FILLING STUD CAVITY. ANY MINERAL WOOL OR GLASS FIBER BATT MATERIAL BEARING THE UL CLASSIFICATION MARKING AS TO FIRE RESISTANCE.
5A. FIBER, SPRAYED* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 5) — (100% BORATE FORMULATION) — SPRAY APPLIED CELLULOSE MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT WITH A NOMINAL DRY DENSITY OF 2.7 LB/FT3. ALTERNATE APPLICATION METHOD: THE FIBER IS APPLIED WITHOUT WATER OR ADHESIVE AT A NOMINAL DRY DENSITY OF 3.5 LB/FT3, IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT.
U S GREENFIBER L L C — INS735, INS745, INS750LD FOR USE WITH WET OR DRY APPLICATION. INS765LD AND INS773LD ARE TO BE USED FOR DRY APPLICATION ONLY.

5B. FIBER, SPRAYED* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 5) - SPRAY APPLIED CELLULOSE INSULATION MATERIAL. THE FIBER IS APPLIED WITH WATER TO INTERIOR SURFACES IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. APPLIED TO COMPLETELY FILL THE ENCLOSED CAVITY. MINIMUM DRY DENSITY OF 4.3 POUNDS PER CUBIC FT.
NU-WOOL CO INC — CELLULOSE INSULATION

5C. FIBER, SPRAYED* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 5) - SPRAY APPLIED CELLULOSE FIBER. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. THE MINIMUM DRY DENSITY SHALL BE 4.30 LBS/FT3.
INTERNATIONAL CELLULOSE CORP — CELBAR-RL

5D. FIBER, SPRAYED* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 5) — SPRAY-APPLIED CELLULOSE MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. TO FACILITATE THE INSTALLATION OF THE MATERIAL, ANY THIN, WOVEN OR NON-WOVEN NETTING MAY BE ATTACHED BY ANY MEANS POSSIBLE TO THE OUTER FACE THE STUDS. THE MATERIAL SHALL REACH EQUILIBRIUM MOISTURE CONTENT BEFORE THE INSTALLATION OF MATERIALS ON EITHER FACE OF THE STUDS. THE MINIMUM DRY DENSITY SHALL BE 5.79 LBS/FT3.
APPLEGATE HOLDINGS L L C — APPLEGATE ADVANCED STABILIZED CELLULOSE INSULATION

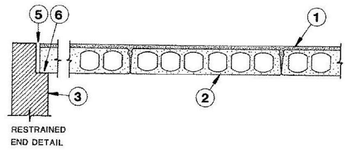
6. LEAD BATTEN STRIPS — FOR USE WITH ITEM 4B - (NOT SHOWN) - LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD (ITEM 4A) AND OPTIONAL AT REMAINING STUD LOCATIONS. STRIPS, MIN 1-1/2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.125 IN. STRIPS PLACED ON THE INTERIOR FACE OF STUDS AND ATTACHED FROM THE EXTERIOR FACE OF THE STUD WITH TWO 1 IN. LONG TYPE S-12 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP. LEAD BATTEN STRIPS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C".
6A. LEAD DISCS OR TABS — (NOT SHOWN) - USED IN LIEU OF OR IN ADDITION TO THE LEAD BATTEN STRIPS (ITEM 6) OR OPTIONAL AT OTHER LOCATIONS - MAX 3/4 IN. DIAM BY MAX 0.125 IN. THICK LEAD DISCS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS OR MAX 1/2 IN. BY MAX 0.125 IN. THICK LEAD TABS PLACED ON GYPSUM BOARDS (ITEM 5) UNDERNEATH SCREW LOCATIONS PRIOR TO THE INSTALLATION OF THE SCREWS. LEAD DISCS OR TABS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C".
6B. LEAD BATTEN STRIPS — (NOT SHOWN, FOR USE WITH ITEM 4D) LEAD BATTEN STRIPS, 2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.140 IN. STRIPS PLACED ON THE FACE OF STUDS AND ATTACHED TO THE STUD WITH TWO MIN. 1 IN. LONG MIN. TYPE S-8 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP OR WITH ONE MIN. 1 IN. LONG MIN. TYPE S-8 PAN HEAD STEEL SCREW AT THE TOP OF THE STRIP. LEAD BATTEN STRIPS TO HAVE A PURITY OF 99.5% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADES "B, C OR D". LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD AND OPTIONAL AT REMAINING STUD LOCATIONS.
6C. LEAD DISCS — (NOT SHOWN, FOR USE WITH ITEM 4D) MAX 5/16 IN. DIAM BY MAX 0.140 IN. THICK LEAD DISCS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS. LEAD DISCS TO HAVE A PURITY OF 99.5% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADES "B, C OR D".
* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

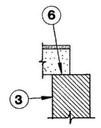
DESIGN No. J995

MARCH 05, 2018

Restrained Assembly Ratings — 2, 3 and 4 Hr.

Unrestrained Assembly Rating — 2 Hr.





UNRESTRAINED END DETAIL

1. CONCRETE TOPPING — 3000 PSI COMPRESSIVE STRENGTH, 110 TO 153 PCF UNIT WEIGHT.

ASSEMBLY RATING HR	MIN. TOPPING THNKNESS IN.
2	0
3	1-1/2
4	2-5/8

2. PRECAST CONCRETE UNITS* — NOM 8, 10 OR 12 IN. DEEP BY 4 FT WIDE UNITS. CARBONATE AGGREGATE, CROSS-SECTION SIMILAR TO ABOVE ILLUSTRATION.
CORESLAB STRUCTURES INC

CORESLAB STRUCTURES (ONT) INC
COUNTY MATERIALS CORP
ENCON UNITED CO
GAGE BROS CONCRETE PRODUCTS INC
KERKSTRA PRECAST INC
LARRY E KNIGHT INC
OLDCASTLE PRECAST INC
SAY-CORE INC

3. END DETAIL — RESTRAINED AND UNRESTRAINED.
4.
5. JOINT (NOT SHOWN) — GROUTED FULL LENGTH WITH SAND-CEMENT GROUT UNLESS CONCRETE TOPPING IS USED.
NOTE: A 3/8 IN. WIDE LATERAL EXPANSION JOINT TO BE PROVIDED THE FULL LENGTH AND DEPTH OF THE SLABS FOR EACH 14 FT OF WIDTH. EXPANSION OBTAINED WITH NONCOMBUSTIBLE, COMPRESSIBLE MATERIAL, FOR EXAMPLE 6 SHEETS OF 1/8 IN. THICK CERAMIC FIBER PAPER.

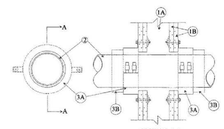
6. END CLEARANCE — CLEARANCE FOR EXPANSION AT EACH END OF SLAB SHALL BE EQUAL TO (L/17) X (1/4 +/OR/- 1/16) IN. WHERE "L" IS EQUAL TO LENGTH OF SPAN IN FT.
7. MIN BEARING — 1-1/2 IN. FOR ASSEMBLY RATING OF 3 HR. OR LESS AND 3 IN. FOR ASSEMBLY RATING OF 4 HR.
* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

System No. W-L-2081

January 26, 2015

F Ratings — 1 & 2 Hr (See Item 1B)

T Rating — 1 Hr



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3 in.

The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Nonmetallic Pipe — Nom 2 in. diam (or smaller) Schedule 40 flame retardant polypropylene (FRPP) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be centered within the firestop system. A nom annular space of 5/16 in. is required within the firestop system. Pipe to be rigidly supported on both sides of the wall assembly.

3. Firestop System — The firestop system shall consist of the following:

A. Firestop Device* — Galv steel collar lined with an intumescent material sized to fit specific diam of the nonmetallic pipe. Device to be installed in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to both surfaces of wall by means of 1/8 in. diam by 1-3/4 in. long steel toggle bolts in conjunction with 1/4 in. by 3/4 in. diam and 1/4 in. by 1-1/4 in. diam steel washers.
EGS NELSON FIRESTOP — PCS Device
B. Pipe Covering* — Nom 1 in. thick by 7-1/2 in. long hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket wrapped around outer circumference of pipe on both surfaces of wall. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Pipe covering slid along pipe until it abuts the firestop device.

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
C. Steel Wire (Not Shown) — After installation of the pipe covering (Item 3B), min No. 18 AWG steel wire shall be wrapped around the outer circumference of the pipe covering once.

*Bearing the UL Classification Mark

AA C000606

HARTER - ADAMS P.A.
ARCHITECTS AND PLANNERS
377 MAITLAND AVE, SUITE 2010, ALTAMONTE SPRINGS, FL 32701
PHONE 407-647-7261 FAX 407-647-3262

TOWNEPLACE SUITES® BY MARRIOTT

TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

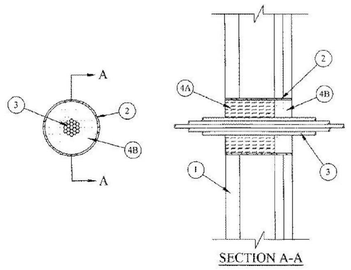
SHEET
LS1.9

OF

System No. W-L-3161

THROUGH-PENETRATION FIRESTOP SYSTEM
January 27, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Items 1 and 4)	F Rating — 1 and 2 Hr (See Items 1 and 4)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 and 2 Hr (See Items 1 and 4)
	FTH Rating — 0 Hr



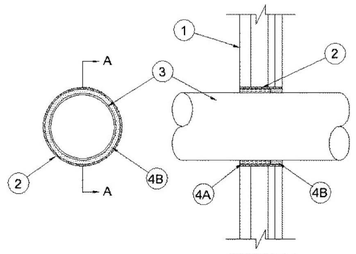
SECTION A-A

A. 1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400, V400 OR W400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
B. A. STUDS — "C-T" SHAPED STUDS 1-5/8 IN. (41 MM) WIDE BY 2-1/2 IN. (64 MM) DEEP, FABRICATED FROM 25 MSG GALV STEEL, SPACED MAX 24 IN. (610 MM) OC.
C. B. GYPSUM BOARD* — ONE LAYER OF NOM 1 IN. (25 MM) THICK, 24 IN. (610 MM) WIDE GYPSUM LINER AND ONE OR TWO LAYERS OF NOM 5/8 IN. (16 MM) THICK, 4 FT. (1.2 M) WIDE GYPSUM BOARD WITH SQUARE OR TAPERED EDGES. THE 5/8 IN. (16 MM) THICK GYPSUM BOARD TYPE, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 4 IN. (102 MM)
D. 1A. WALL ASSEMBLY — AS AN ALTERNATE TO THE ABOVE WALL ASSEMBLY, THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
E. A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC.
F. B. GYPSUM BOARD* — THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 4 IN. (102 MM).
G. THE HOURLY F, FH RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
H. 2. METALLIC SLEEVE — MAX 4 IN. (102 MM) DIAM CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.016 IN. (0.41 MM) THICK (28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 1 IN. (25 MM) LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENING AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM BOARD LAYERS. SLEEVE MAY ALSO BE FORMED OF NO. 8 STEEL WIRE MESH HAVING A MIN 1 IN. (25 MM) LAP ALONG THE LONGITUDINAL SEAM.
I. 3. CABLES — AGGREGATE CROSS-SECTIONAL AREA OF CABLE IN OPENING TO BE MAX 33 PERCENT OF THE CROSS-SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPENING TO BE MIN 1/4 IN. (6.4 MM) TO MAX 3/4 IN. (19 MM). CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLES MAY BE USED:
J. A. MAX 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.
K. B. MAX 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC INSULATION AND JACKET.
L. C. TYPE RG 59/U COAXIAL CABLE WITH POLYETHYLENE (PE) INSULATION AND PVC JACKET.
M. D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OD OF 5/8 IN. (16 MM).
N. E. MAX 3/C NO. 12 AWG COPPER CONDUCTOR STEEL CLAD CABLE.
O. G. FIRE RESISTIVE CABLES* - MAX 1-1/4 IN. (32 MM) DIAM SINGLE CONDUCTOR OR MULTI CONDUCTOR TYPE MI CABLE. A MIN 1/8 IN. (3 MM) SEPARATION SHALL BE MAINTAINED BETWEEN MI CABLES AND ANY OTHER TYPES OF CABLE.
P. 4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
Q. A. PACKING MATERIAL — MIN 2-1/8 IN. (54 MM) OR 2-3/4 IN. (70 MM) THICKNESS OF MIN 4 PCF (64KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING ON ONE SIDE OF THE WALL AS PERMANENT FORM FOR 1 AND 2 HR FIRE RATED WALLS, RESPECTIVELY. PACKING MATERIAL TO BE RECESSED FROM THE ROOM SIDE OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. IN ALTERNATE WALL ASSEMBLY, PACKING MATERIAL TO BE FLUSH WITH EITHER SIDE OF THE WALL AND RECESSED FROM THE OTHER SIDE OF THE WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
R. B. FILL, VOID OR CAVITY MATERIAL — SEALANT* — MIN 1 IN. (25 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN SLEEVE, FLUSH WITH SURFACE OF WALL.
S. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT
T.
U.
V. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

System No. W-L-7068

THROUGH-PENETRATION FIRESTOP SYSTEM
January 27, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Items 1 and 4)	F Ratings - 1 and 2 Hr (See Items 1 and 4)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Items 1 and 4)
	FTH Rating - 0 Hr

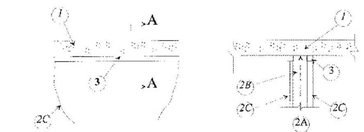


SECTION A-A

A. 1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400, V400 OR W400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
B. A. STUDS — "C-T" SHAPED STUDS -1-5/8 IN. (41 MM) WIDE BY 2-1/2 IN. (64 MM) DEEP, FABRICATED FROM 25 MSG GALV STEEL, SPACED MAX 24 IN. (610 MM) OC.
C. B. GYPSUM BOARD* — ONE LAYER OF NOM 1 IN. (25 MM) THICK, 24 IN. (610 MM) WIDE GYPSUM LINER AND ONE OR TWO LAYERS OF NOM 5/8 IN.(16 MM) THICK, 4 FT. (1.22 M) WIDE GYPSUM BOARD WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 7 IN. (178 MM).
D. 1A. WALL ASSEMBLY — AS AN ALTERNATE TO THE ABOVE WALL ASSEMBLY, THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
E. A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (61 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC.
F. B. GYPSUM BOARD* — THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 7 IN. (178 MM).
G. THE HOURLY F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
H.
I. 2. METALLIC SLEEVE — MAX 7 IN. (178 MM) DIAM CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.016 IN. (0.41 MM) THICK (28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 1 IN. (25 MM) LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENING AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM BOARD LAYERS. SLEEVE MAY ALSO BE FORMED OF NO. 8 STEEL WIRE MESH HAVING A MIN 1 IN.(25 MM) LAP ALONG THE LONGITUDINAL SEAM.
J. 3. STEEL DUCT — NOM 6 IN. DIAM (152 MM) (OR SMALLER) NO. 28 GAUGE (0.41 MM) (OR HEAVIER) GALV STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 1/4 IN. (6 MM) TO MAX 3/4 IN. (19 MM). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY.
K. 4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
L. A. PACKING MATERIAL — MIN 2-1/8 OR 2-3/4 IN. (54 OR 70 MM) THICKNESS OF MIN 4 PCF (64 KG/M3)MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO SLEEVE ON ONE SIDE OF THE WALL AS A PERMANENT FORM FOR 1 AND 2 HR WALLS, RESPECTIVELY. PACKING MATERIAL TO BE RECESSED FROM THE ROOM SIDE OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. IN ALTERNATE WALL ASSEMBLY, PACKING MATERIAL TO BE FLUSH WITH EITHER SIDE OF THE WALL AND RECESSED FROM THE OTHER SIDE OF THE WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
M. B. FILL, VOID OR CAVITY MATERIAL — SEALANT* — MIN 1 IN.(25 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN OPENING, FLUSH WITH ONE SURFACE OF WALL.
N. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT
O.
P.
Q. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

System No. HW-D-0083

JOINT SYSTEM
September 01, 2016
Assembly Rating — 1 and 2 Hr (See Items 2 and 3)
Nominal Joint Width — 3/4 In.
L Rating At Ambient — Less Than 1 CFM/Lin Ft
L Rating At 400°F — Less Than 1 CFM/Lin Ft
Class II Movement Capabilities — 17 % Compression or Extension



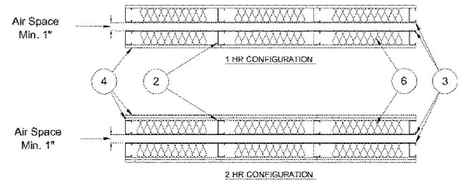
SECTION A-A

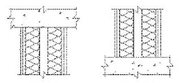
A. 1. FLOOR ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) STRUCTURAL CONCRETE. FLOOR MAY ALSO BE CONSTRUCTED OF ANY 6 IN. (152 MM) THICK UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*.
B. SEE PRECAST CONCRETE UNITS CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURES.
C.
D. 2. WALL ASSEMBLY — THE 1 OR 2 H FIRE-RATED GYPSUM BOARD /STEEL STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
E. A. STEEL FLOOR AND CEILING RUNNERS — FLOOR AND CEILING RUNNERS OF WALL ASSEMBLY SHALL CONSIST OF MIN NO. 25 GAUGE GALV STEEL CHANNELS SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). FLANGE HEIGHT OF CEILING RUNNER SHALL BE MIN 1/4 IN. (6 MM) GREATER THAN MAX EXTENDED JOINT WIDTH. CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS, STEEL FASTENERS SPACED 24 IN. (610 MM) OC.
F. A1. LIGHT GAUGE FRAMING*-SLOTTED CEILING RUNNER — AS AN ALTERNATE TO THE CEILING RUNNER IN ITEM 2A, SLOTTED CEILING RUNNER TO CONSIST OF GALV STEEL CHANNEL WITH SLOTTED FLANGES SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). SLOTTED CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS OR STEEL FASTENERS SPACED MAX 24 IN. (610 MM) OC.
G. BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
H. CALIFORNIA EXPANDED METAL PRODUCTS CO — CST
I. CLARKDIETRICH BUILDING SYSTEMS — TYPE SLT, SLT-H
J. MARINO/WARE, DIV OF WARE INDUSTRIES INC — TYPE SLT
K. METAL-LITE INC — THE SYSTEM
L. RAM SALES L L C — RAM SLOTTED TRACK
M. SCAFCO STEEL STUD MANUFACTURING CO
N. TELLING INDUSTRIES L L C — TRUE-ACTION DEFLECTION TRACK
O. A2. LIGHT GAUGE FRAMING*-VERTICAL DEFLECTION CEILING RUNNER — AS AN ALTERNATE TO THE CEILING RUNNERS IN ITEMS 2A AND 2A1, VERTICAL DEFLECTION CEILING RUNNER TO CONSIST OF GALV STEEL CHANNEL WITH SLOTTED VERTICAL DEFLECTION CLIPS MECHANICALLY FASTENED WITHIN RUNNER. SLOTTED CLIPS, PROVIDED WITH STEP BUSHINGS, FOR PERMANENT FASTENING OF STEEL STUDS. FLANGES SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). VERTICAL DEFLECTION CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL FASTENERS OR STEEL MASONRY ANCHORS SPACED MAX 24 IN. (610 MM) OC.
P. THE STEEL NETWORK INC — VERTITRACK VTD250, VTD362, VTD400, VTD600 AND VTD800
Q. A3. LIGHT GAUGE FRAMING* - NOTCHED CEILING RUNNER — AS AN ALTERNATE TO THE CEILING RUNNERS IN ITEMS 2A THROUGH 2A3, NOTCHED CEILING RUNNERS TO CONSIST OF C-SHAPED GALV STEEL CHANNEL WITH NOTCHED RETURN FLANGES SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). NOTCHED CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS OR STEEL FASTENERS SPACED MAX 24 IN. (610 MM) OC.
R. OLMAR SUPPLY INC — TYPE SCR
B. STUDS — STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE. STUDS CUT 1/2 TO 3/4 IN. (13 TO 19 MM) LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND WITH TOP NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. WHEN SLOTTED CEILING RUNNER (ITEM 2A1) IS USED, STEEL STUDS SECURED TO SLOTTED CEILING RUNNER WITH NO. 8 BY 1/2 IN. (13 MM) LONG WAFER HEAD STEEL SCREWS AT MIDHEIGHT OF SLOT ON EACH SIDE OF WALL. STUD SPACING NOT TO EXCEED 24 IN. (610 MM) OC. WHEN VERTICAL DEFLECTION CEILING RUNNER (ITEM 2A2) IS USED, STEEL STUDS SECURED TO SLOTTED VERTICAL DEFLECTION CLIPS, THROUGH THE BUSHINGS, WITH STEEL SCREWS AT MIDHEIGHT OF EACH SLOT. STUD SPACING NOT TO EXCEED 24 IN. (610 MM) OC.
S. C. GYPSUM BOARD* — FOR 1 HR ASSEMBLY, ONE LAYER OF 5/8 IN. (16 MM) THICK GYPSUM BOARD IS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. FOR 2 HR ASSEMBLY, TWO LAYERS OF 5/8 IN. (16 MM) THICK GYPSUM BOARD IS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. FOR BOTH HOURLY RATINGS, A NOMINAL 3/4 IN. (19 MM) GAP SHALL BE MAINTAINED BETWEEN THE TOP OF GYPSUM BOARD AND THE BOTTOM OF SURFACE OF THE CONCRETE FLOOR. THE SCREWS ATTACHING THE GYPSUM BOARD TO STUDS AT THE TOP OF THE WALL SHALL BE LOCATED 1 IN. (25 MM) BELOW THE BOTTOM EDGE OF THE CEILING RUNNER. THE HOURLY FIRE RATING OF THE JOINT SYSTEM IS DEPENDENT ON THE HOURLY RATING OF THE WALL.
T. 3. FILL, VOID OR CAVITY MATERIAL* - SEALANT — MAX SEPARATION BETWEEN THE BOTTOM OF FLOOR AND TOP OF WALL IS 3/4 IN. (19 MM). THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 17 PERCENT COMPRESSION OR EXTENSION FROM ITS INSTALLED WIDTH. MIN 5/8 IN. (16 MM) OR 1-1/4 IN. (32 MM) THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY , INSTALLED ON EACH SIDE OF THE WALL BETWEEN THE TOP OF THE GYPSUM BOARD AND THE BOTTOM OF THE CONCRETE FLOOR, FLUSH WITH THE SURFACE OF THE WALL.
U. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 FLEXIBLE FIRESTOP SEALANT
V. * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

Design No. V446

August 18, 2015

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States





1. Steel Floor and Ceiling Tracks — (Not Shown) - Top and bottom tracks of wall assemblies shall consist of steel members, min 0.034 in. thick galv steel (0.033 in., min bare metal thickness, 350T125-33) steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.
2. Steel Studs — Corrosion protected steel studs, min 3-1/2 in. wide by min 1-5/8 in. deep with min 1/2 in. stiffeners, min 0.034 in. thick galv steel (0.033 in., min bar metal thickness, 350S162-33), cold formed, shall be designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC. Studs attached to floor and ceiling tracks with four min 1/2 in. long No. 8 pan head screws, one through each face. Studs may be offset in adjacent rows.
3. Bracing — A min 1-1/2 in. wide by min 33 mil steel strap, fastened to the interior side of the steel studs at the mid-height with one min 1/2 in. long No. 8 pan head screw at each stud. Solid bracing cut from steel runners or studs placed between outer studs and at each end of the steel strap at mid-height. Solid bracing is screw-attached with one min 1/2 in. long No. 8 pan head screw per flange or two min 1/2 in. long No. 8 pan head screws per web. As an alternate, any bracing method in accordance with the Cold-Formed Steel Framing Design Guide by the American Iron and Steel Institute shall be acceptable.
4. Gypsum Board* — Spacing between adjacent rows of studs is a minimum of 1 in. Min. 5/8 in. thick gypsum wallboard 4 ft wide. Applied vertically with joints centered over studs and staggered 24 in. OC on opposite sides of studs on each exterior side of the assembly. The thickness and number of layers and percent of design load for the 1 hr, and 2 hr ratings are as follows:

Rating	Wallboard Protection - Exterior Sides of Wall - No. of Layers & Thkns of Board In. Each Layers	% of Design Load
1 hr	1 layer, 5/8 in. thick	80
2 hr	2 layers, 5/8 in. thick	100

CGC INC — TYPE AR, IP-AR OR SCX.

UNITED STATES GYPSUM CO — TYPE AR, FRX-G, IP-AR OR SCX.

USG MEXICO S A DE C V — TYPE AR, IP-AR OR SCX.

5. FASTENERS — (NOT SHOWN) - SCREWS USED TO ATTACH WALLBOARD TO STUDS: SELF-TAPPING BUGLE HEAD SHEET STEEL TYPE, SPACED 12 IN. OC ALONG THE PERIMETER AND IN THE FIELD. FIRST LAYER OF WALLBOARD FASTENED WITH MIN 1-1/4 IN. LONG NO. 6 SCREWS. SECOND LAYER OF WALLBOARD FASTENED WITH MIN 1-5/8 IN. LONG NO. 6 SCREWS.
6. BATTS AND BLANKETS* — PLACED IN STUD CAVITIES, ANY GLASS FIBER INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE, HAVING A MIN DENSITY OF 0.5 PCF.
SEE BATTS AND BLANKETS (BKNV AND/OR BZJZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

7. JOINT TAPE AND COMPOUND — (NOT SHOWN) - VINYL OR CASEIN, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS OF OUTER LAYER. PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF OUTER LAYER.
8. MINERAL AND FIBER BOARD* — (OPTIONAL, NOT SHOWN) — FOR OPTIONAL USE AS AN ADDITIONAL LAYER ON ONE OR BOTH SIDES OF THE WALL, NOM 1/2 IN. THICK, 4 FT WIDE WITH LONG DIMENSION PARALLEL AND CENTERED OVER STUDS. ATTACHED TO STUDS AND FLOOR AND CEILING RUNNERS WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS, SPACED 12 IN. OC. THE REQUIRED UL CLASSIFIED GYPSUM BOARD LAYER(S) IS/ARE TO BE INSTALLED AS INDICATED AS TO FASTENER TYPE AND SPACING, EXCEPT THAT THE REQUIRED FASTENER LENGTH SHALL BE INCREASED BY A MINIMUM OF 1/2 IN. NOT EVALUATED OR INTENDED AS A SUBSTITUTE FOR THE REQUIRED LAYER(S) OF UL CLASSIFIED GYPSUM BOARD.
HOMASOTE CO — HOMASOTE TYPE 440-32

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.
LAST UPDATED ON 2015-08-18
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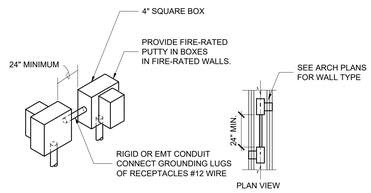

BACK TO BACK ELECTRICAL OUTLETS DETAIL
N.T.S.

NOTE:
1. BACK-TO-BACK OUTLET BOXES ON RATED WALLS AND PARTY WALLS SHALL BE SEPARATED BY A MINIMUM 24"
2. ASSURE SOUND ATTENUATION BATTS ARE PROVIDED BETWEEN UNITS

AA C000606

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TOWNEPLACE SUITES HOTEL
LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

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