

STEAMBOAT SKI & RESORT CORPORATION

SSRC | BASE AREA IMPROVEMENTS

2305 Mount Werner Circle
Steamboat Springs, CO 80487

BID PACK 3: GOLDWALK - ISSUE FOR BID & PERMIT

2021.05.19

Conditionally approved- pending resubmittal of site plan with access width, grade, turning radius, turnaround, and turnouts meeting Fire Dept. access requirements or if unable to meet requirements submittal of fire sprinkler and monitored fire alarm plans and permits. No inspections past foundation until the above is resolved.) www.steamboatsprings.net for details.

PJ4656-2
Fire Prevention
In: 06/15/2021
Out: 06/25/2021



ALTERRA east west partners
MOUNTAIN COMPANY

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△	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

RCRBD
Record Set
TC
06/29/2021

RCRBD Note:
1. All Demolition Work associated with this work area under the GoldWalk Permit B-21-625 can be found and referenced under Permit B-21-353 which is an Issued Active Permit.

Seal / Signature



Project Name
05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

COVER

Scale

NOT TO SCALE

1B-G0.000

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Project Name: SSRC | BASE AREA IMPROVEMENTS
Project Number: 003.7835.000
Description: DRAWING INDEX

Scale

1B-G0.001

ACCESSIBILITY NOTES

1. NOT USED
2. FLOOR SURFACES SPECIFIED ARE SLIP-RESISTANT.
3. ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTE DO NOT EXCEED 1/2" IN HEIGHT. CHANGES BETWEEN 1/4" AND 1/2" ARE BEVELED WITH A SLOPE NO STEEPER THAN 1:2. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
4. LATCHING AND LOCKING DOORS ARE SPECIFIED TO BE OPERABLE WITH A SINGLE EFFORT BY HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. DOOR OPENING HARDWARE IS SPECIFIED TO BE MOUNTED BETWEEN 34" AND 48" ABOVE FLOOR FINISH. CLOSERS FOR FIRE-RATED DOORS ARE SPECIFIED TO BE POWER LEVEL 3 FOR INTERIOR DOORS 38" OR LESS IN WIDTH.
6. NOT USED
7. ALL DOORS ARE SPECIFIED TO BE NOT LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS ARE CAPABLE OF OPENING AT LEAST 90 DEGREES AND CLEAR WIDTH IS NOT LESS THAN 32".
8. FLOOR AREAS ON EACH SIDE OF DOORS ARE SPECIFIED TO BE LEVEL AND CLEAR. THE DIMENSIONS OF THE LEVEL AREAS ARE SPECIFIED TO MEET ANSI A117.3 2003, IAC AND ADA CLEARANCE REQUIREMENTS.
9. FLOORS OR LANDINGS ARE SPECIFIED TO BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" IS SPECIFIED TO BE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.
10. NOT USED
11. ELECTRICAL RECEPTACLE OUTLETS ARE SPECIFIED TO BE NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.

GENERAL NOTES

1. COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
2. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
3. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
4. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.
5. COORDINATE WORK WITH THE LANDLORD AND OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS.
6. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
7. COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
8. MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
9. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
10. UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.
11. PROVIDE ALL ACCESS PANELS REQUIRED FOR ALL JUNCTION BOXES, VALVES, CLEANOUTS, PLUGS, FILTERS, EQUIPMENT, AND ALL OTHER ITEMS REQUIRING SERVICE OR MAINTENANCE.
12. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
13. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
14. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR" ALLOW FOR THICKNESS OF FINISHES.
15. PROVIDE CONCEALED BLOCKING AS REQUIRED FOR WORK BY OWNERS' OTHER CONTRACTORS. COORDINATE WITH OTHER CONTRACTORS FOR SIZE, TYPE AND LOCATION OF REQUIRED BLOCKING.
16. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.

FIRE PREVENTION NOTES

1. EVERY EXIT DOOR IS SPECIFIED TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY AND WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
2. INTERIOR WALL AND CEILING FINISHES ARE SPECIFIED TO BE CLASS 2 (FLAME SPREAD 26-75, SMOKE DEVELOPED 450 OR LESS) OR BETTER.
3. INTERIOR TRIM IS SPECIFIED TO BE CLASS 3 (FLAME SPREAD 76 TO 200, SMOKE DEVELOPED 450 OR LESS) OR BETTER.
4. INTERIOR TRIM FOR CEILINGS IS SPECIFIED TO BE 10% OR LESS OF TOTAL CEILING AREA. INTERIOR TRIM FOR WALLS IS SPECIFIED TO BE 20% OR LESS OF TOTAL WALL AREA.
5. THIS PROJECT DOES NOT INCLUDE STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS OR HAZARDOUS SUBSTANCES.
6. ALL WOOD BLOCKING, CLEATS, GROUNDS, SHEATHING AND OTHER MISC. CARPENTRY ITEMS SHALL BE FIRE RETARDANT TREATED.
7. FLOOR COVERINGS FOR CORRIDORS, LOBBIES, STAIRS, OTHER EXIT PATHS OR EXIT AREAS ARE SPECIFIED TO BE CLASS B OR BETTER.
8. NOT USED
9. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
10. PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.
11. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
12. DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
13. 20-MINUTE DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
14. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING 50 OR MORE PERSONS AND IN ANY HAZARDOUS AREA.
15. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER.
16. PROVIDE FIRE DAMPERS, FIRE SMOKE DAMPERS OR DOORS WHERE DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS. TYPICAL ALL AREAS, COORDINATE WITH EOR TO ENSURE FIRE SMOKE OR SMOKE DAMPER ARE REQUIRED AT LOCATIONS. WORK PERFORMED WITH OUT CLARIFICATION OR COORDINATION SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE GC.
17. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH UNIFORM, FIRE CODE REGULATIONS.
18. NOT USED
19. LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
20. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
21. MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS PER FIRE PROTECTION SYSTEM SPECIFICATIONS TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
22. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

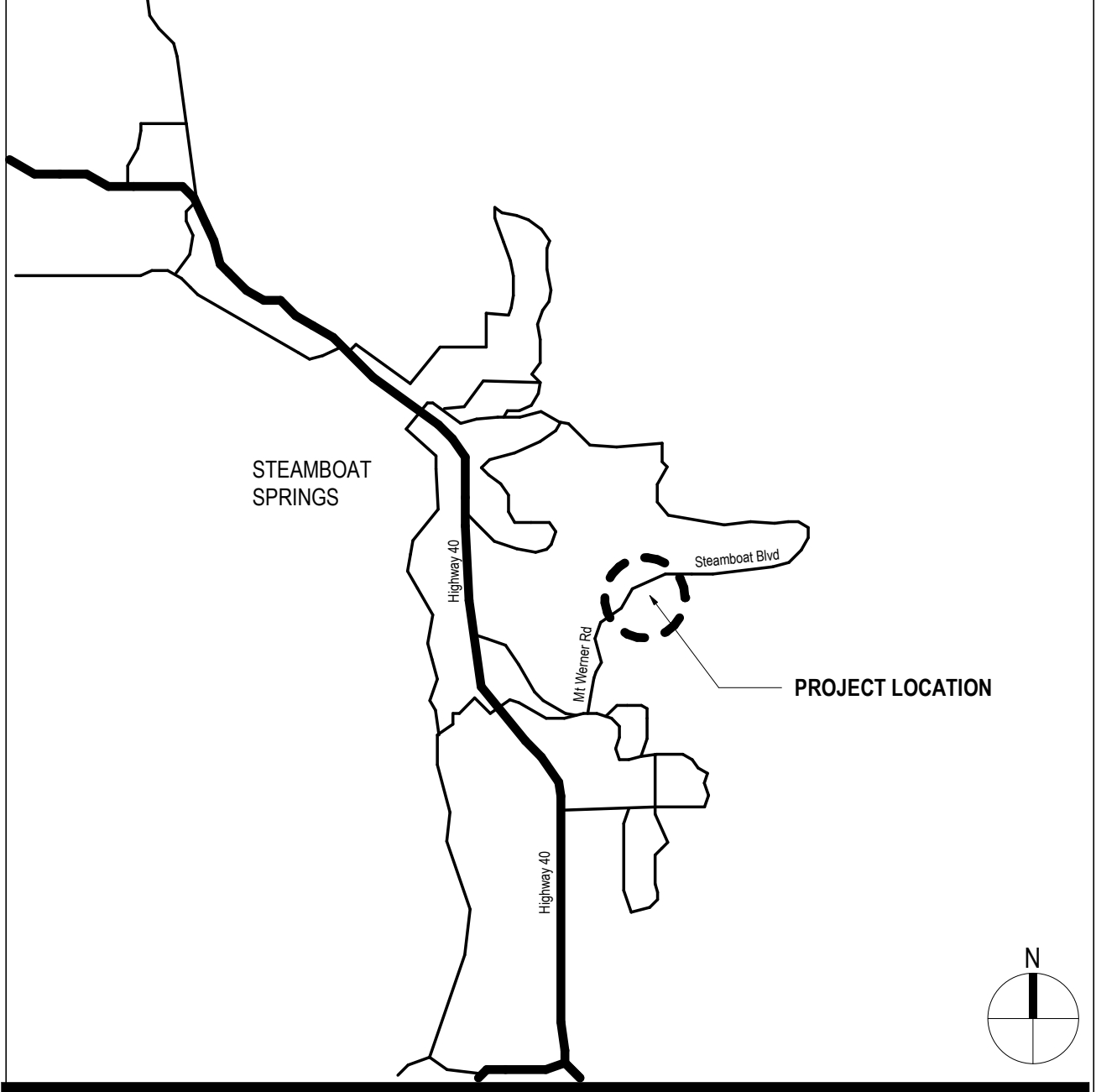
DEMOLITION NOTES

1. REMOVE DESIGNATED PARTITIONS, CEILINGS COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
2. REMOVE EXISTING WORK AS REQUIRED TO ACCOMMODATE NEW WORK, EVEN WHERE NOT EXPRESSLY INDICATED ON DEMOLITION PLANS.
3. NOT USED
4. NOT USED
5. NOT USED
6. REMOVE EXISTING FLOOR FINISHES WHERE INDICATED AND PREPARE SUBFLOOR AS REQUIRED FOR NEW FLOOR FINISHES.
7. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
8. PROVIDE AND MAINTAIN BARRICADES, LIGHTING, AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
9. ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
10. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.
11. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. LEAVE ALL AREAS BROOM CLEAN DAILY.
12. NO EXISTING LANDLORD WORK SHALL BE REMOVED UNLESS SUCH REMOVAL IS APPROVED IN WRITING BY LANDLORD.

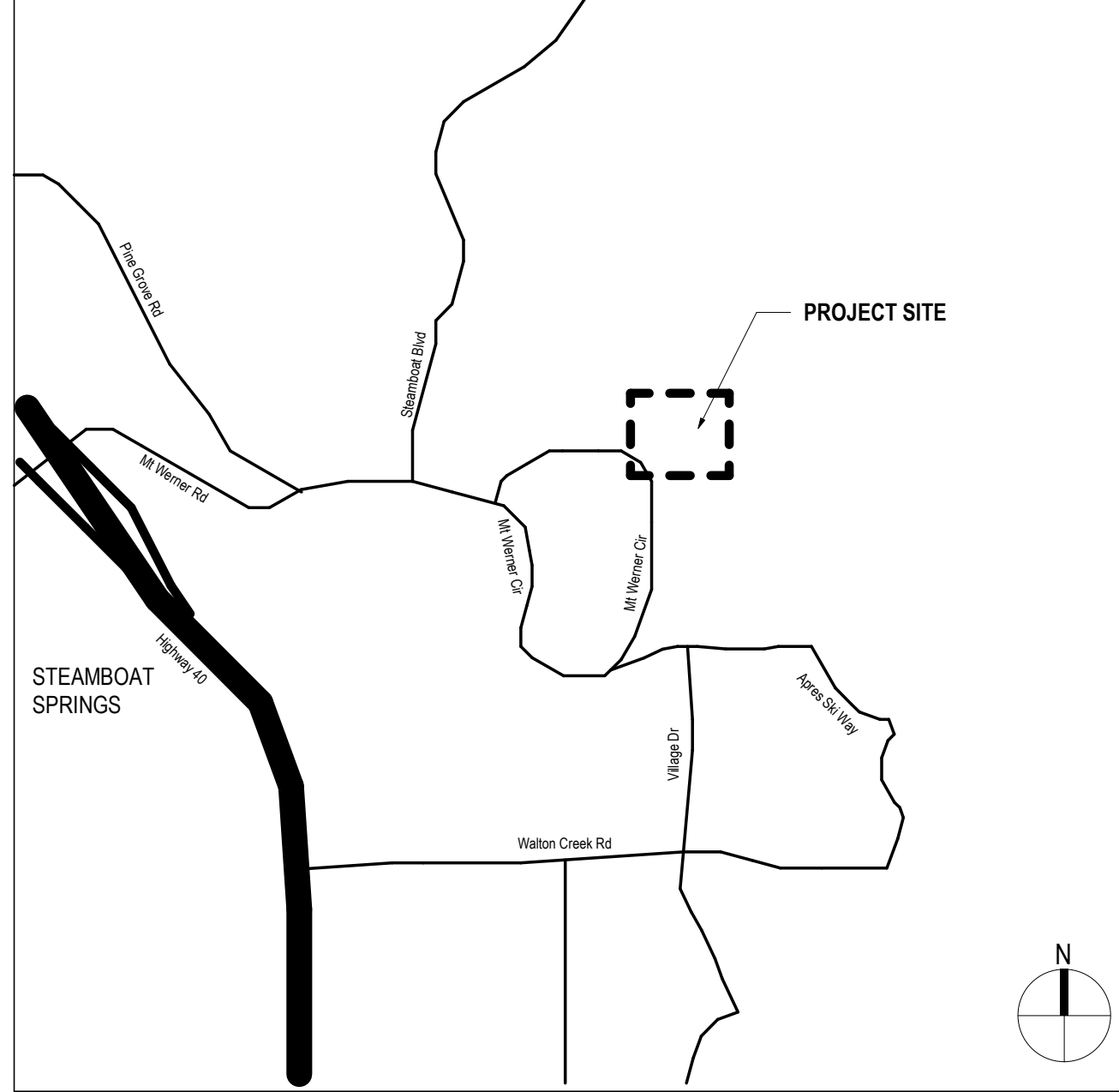
REFLECTED CEILING NOTES

1. NOT USED
2. NOT USED
3. DIMENSIONS FOR CEILING LOCATIONS, ENLARGED PLAN TARGETS, DETAIL TARGETS, ETC. ARE NOTED ON REFLECTED CEILING PLANS. DIMENSIONS, TARGETS, ETC. THAT ARE TYPICAL FOR MANY AREAS ARE NOTED ONLY ONCE.
4. SEE ENGINEERING AND CONSULTANT(S) DRAWINGS FOR QUANTITY AND LOCATION OF ALL EXIT AND EMERGENCY LIGHTS, THERMOSTATS, SPRINKLER HEADS, LIFE SAFETY SPEAKERS, AND DIFFUSER GRILLES, TYPICAL UNLESS NOTED OTHERWISE.
5. SEE ENGINEERING AND CONSULTANT(S) DRAWINGS FOR ADDITIONAL INFORMATION, DEVICES, DETAILS, ETC., TYPICAL.
6. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING AND/OR POWER ZONES.
7. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED CONDUITS, PULL BOXES, HOME RUNS, WALL JUNCTION BOXES, PLASTER RINGS, ETC. FOR INSTALLATION, PULLING, ETC. OF ALL VOICE/DATA DEVICES, CABLES, SECURITY DEVICES, ETC., TYPICAL UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR TO COORDINATE.
8. NOT USED
9. IF LOCATION DIMENSION ARE NOT NOTED AND/OR INDICATED, FINAL POSITIONING OF ALL/ANY EXPOSED DEVICES TO BE COORDINATED WITH DESIGNER/ARCHITECT.
10. ALL EXIT LIGHTS/SIGNS TO MATCH BASE BUILDING UNLESS NOTED OTHERWISE.
11. ALL DIMENSIONS INDICATING LIGHT SWITCH AND/OR ANY OTHER DEVICE LOCATIONS ARE TO CENTER LINES OF SWITCHES AND/OR DEVICES, TYPICAL UNLESS NOTED OTHERWISE.

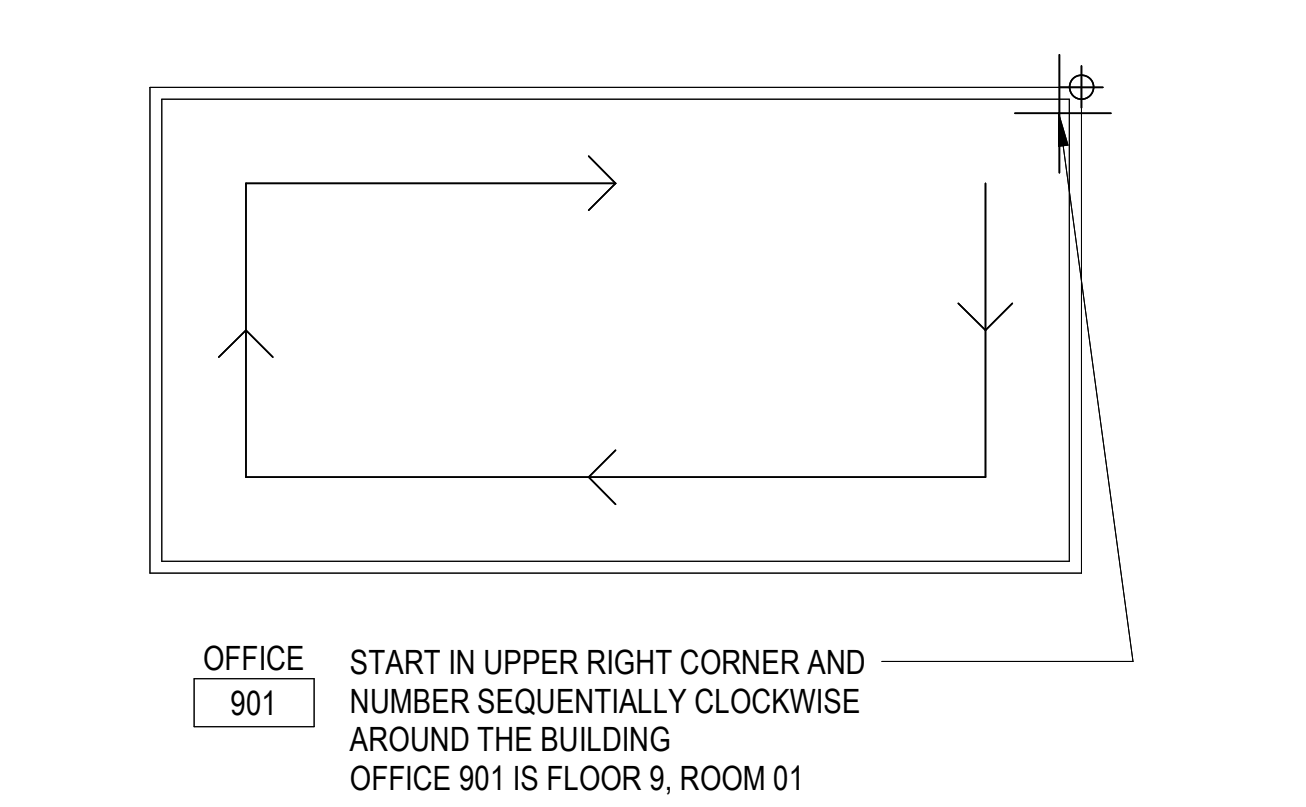
VICINITY MAP



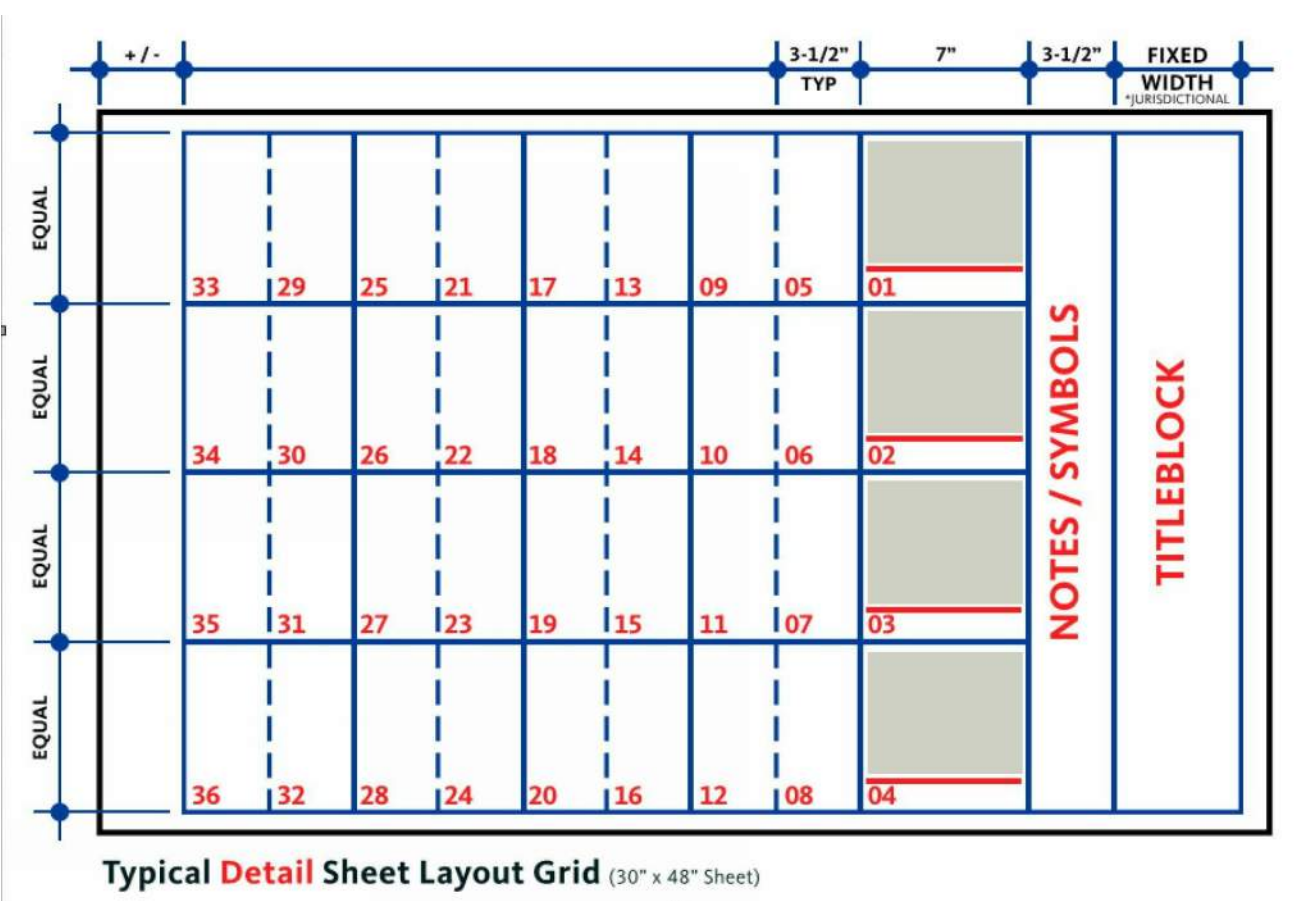
LOCATION MAP



ROOM NUMBERING SYSTEM



SHEET LAYOUT GRID SYSTEM



PROJECT INFORMATION

FOLLOWING ARE THE PLANS OUTLINING THE SCOPE OF WORK REQUIRED FOR THE NEW CONSTRUCTION AND RENOVATION OF THE STEAMBOAT BASE VILLAGE. THE WORK INCLUDES MULTIPLE PROJECTS BUILT BOTH CONCURRENTLY AND SEQUENTIALLY IN TWO PHASES.

PHASE I:
THE WORK INCLUDES A NEW ENTRY WALK, REFERRED TO AS THE GOLD WALK, FROM THE TRANSIT DROP OFF ON WARNER DRIVE UP TO A NEW ESCALATOR AND STAIR THAT CONNECTS TO THE MAIN PLAZA. AT THE EXISTING GONDOLA SQUARE BUILDING, THE EXISTING BUILDING B IS TO BE DEMOLISHED AND REPLACED WITH A NEW STRUCTURE. THE NEW STRUCTURE WILL BE PART OF THE SECOND PHASE. THE EXISTING LOWER GONDOLA TERMINAL BUILDING IS TO BE DEMOLISHED. IN ITS PLACE, A NEW PLAZA WITH AN ICE RINK AND PLANTERS WILL BE BUILT. A NEW BUILDING WILL BE BUILT - REFERRED TO AS THE PROMENADE BUILDING - THIS BUILDING WILL HOUSE SERVICES FOR SKIERS AND SUPPORT SPACES. A NEW BUILDING TO HOUSE FOOD AND BEVERAGE SERVICES- REFERRED TO AS THE PLAZA BUILDING - WILL BE BUILT ON TOP OF A PORTION OF THE PROMENADE BUILDING, ON THE SOUTHERN END OF THE NEW PLAZA.

NEW MECHANICAL, ELECTRICAL, PLUMBING AND TELE-DATA INFRASTRUCTURE WILL BE BUILT AS PART OF THIS WORK, INCLUDING A BOILER PLANT, SNOW MELT SYSTEMS, AN ICE RINK, AND ASSOCIATED ICE PLANT.

PHASE II:
A REPLACEMENT BUILDING B WILL BE BUILT IN THE SAME ROUGH FOOTPRINT OF THE ORIGINAL BUILDING. A FRONT DOOR BUILDING, REFERRED TO IN THE DRAWING SET AS THE TICKETING BUILDING, WILL BE CONSTRUCTED ALONG THE GOLDWALK.

WORK TO INCLUDE SELECT DEMOLITION & CONSTRUCTION OF NEW PARTITIONS, CEILINGS, FINISHES, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION AS INDICATED ON DRAWINGS.

THE DRAWINGS, IN CONCERT WITH THE PROJECT MANUAL, COMPRISE THE CONTRACT DOCUMENTS OUTLINING THE DESIGN INTENT AND PROJECT SCOPE, AND MAY BE SUPPLEMENTED BY FURTHER INFORMATION ISSUED BY ARCHITECT.

THE DRAWINGS ARE ARRANGED IN GENERAL TO SPECIFIC ORDER, FOLLOWING A TOP TO BOTTOM, RIGHT TO LEFT FORMAT. CONTRACTORS ARE ADVISED TO READ AND FAMILIARIZE THEMSELVES WITH THE INFORMATION IN THE PROJECT MANUAL, AS WELL AS THE GENERAL LEGENDS CONTAINED IN THE G SERIES OF DRAWINGS. PRIOR TO REVIEW OF THE PLANS, ELEVATIONS AND DETAILS, ADVISE THE ARCHITECT WHERE INTENT IS NOT CLEARLY PERCEIVED, PRIOR TO PROCEEDING WITH WORK.

BUILDING ADDRESS:	2305 MOUNT WERNER CIRCLE STEAMBOAT SPRINGS, CO 80487
BUILDING JURISDICTION:	ROUTT COUNTY, STEAMBOAT SPRINGS, COLORADO
APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2020 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2009 ICC A117.1, ACCESSIBILITY REQUIREMENTS 2010 ADA ACCESSIBILITY GUIDELINES ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS 2013 USEABLE BUILDING & FACILITIES CODE
OCCUPANCY TYPE:	B-BUSINESS, S-2 STORAGE
CONSTRUCTION TYPE:	TYPE I-IA
FIRE SUPPRESSION:	FIRE ALARM AND SMOKE DETECTION SYSTEM PER IBC 907.2 & NFPA 72
FIRE ALARM SYSTEM:	FIRE RESISTIVE, (100% SPRINKLERED PER NFPA 13)
DEFERRED SUBMITTALS:	<ul style="list-style-type: none">• GUARDRAILS• FIRE ALARM SYSTEM• FIRE SPRINKLER SYSTEM• ACCESS CONTROL HARDWARE• SPRAY-APPLIED FIRE PROOFING

PROJECT TEAM

CLIENT / OWNER:	ALTERRA MOUNTAIN COMPANY REAL ESTATE DEVELOPMENT 3501 WAZEE STREET DENVER, CO 80216 (303) 749 - 8200
CIVIL ENGINEER:	LANDMARK CONSULTANTS, INC. 141 9TH STREET, PO BOX 774943 STEAMBOAT SPRINGS, CO 80477 (970) 871-9494
LANDSCAPE ARCHITECT:	DESIGN WORKSHOP 1390 LAWRENCE STREET DENVER, CO 80204 (303) 623-5186
ARCHITECT:	GENSLER 1225 17TH STREET, SUITE 150 DENVER, CO 80202 (303) 595 - 8585
STRUCTURAL ENGINEER:	MARTIN / MARTIN ENGINEERS 12499 WEST COLFAX AVE LAKEWOOD, CO 80215 (303) 431 - 6100
MECHANICAL / ELECTRICAL / PLUMBING ENGINEER:	ME ENGINEERS 14143 DENVER WEST PKWY, SUITE 300 GOLDEN, CO 80401 (303) 421-6655



ALTRERA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487



1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823



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Steamboat Springs, CO 80477
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Denver, CO 80204
Tel 303.623.5186



12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR RECORD AND PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



Project Name:  05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

PROJECT INFORMATION





Scale

12" = 1'-0"

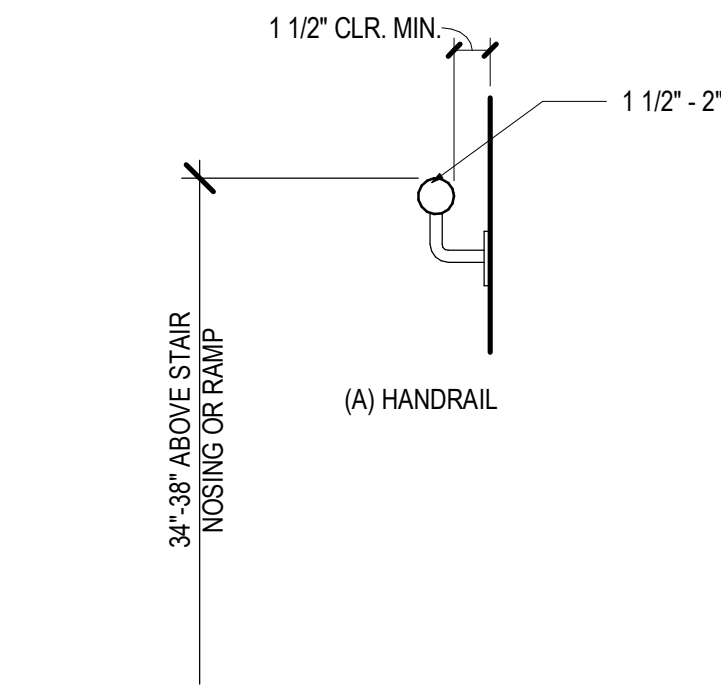
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W	WITH	RH	RIGHT HAND	MONO	MONOLITHIC
W/O	WITHOUT	RM	ROOM	MOT	MOTOR(IZED)
WB	WOOD BASE	RMV	REMOVE	MOV	MOVABLE
WC	WATER CLOSET	RO	ROUGH OPENING	MP	METAL ACOUSTICAL PANEL
WD	WOOD	RO	ROUGH OPENING	MP	MP RECEPTOR
WDW	WINDOW	ROW	RIGHT OF WAY	MRO	METAL ROOF DECK
WF	WIDE FLANGE (STRUCTURAL STEEL)	RPT	REPEAT (LIKE "DITTO")	MTD	MCOUNTED
WH	WATER HEATER	RRT	RAILROAD	MTL	MCOUNTED
WLD	WELD			MTR	MOTOR
WM	WIRE MESH	S		MULL	MULLION
WP	WATERPROOFING	S4S	SURFACED 4 SIDES	MWK	MILLWORK
WPT	WORKING POINT	SALV	SALVAGE		
WR	WATER RESISTANT OR WATER REPELLANT	SAN	SANITARY	N	NATURAL
WRSTP	WEATHERSTRIPPING	SC	SOLID CORE	NAT	NATURAL
WT	WEIGHT	SCHED	SCHEDULE	NEUT	NEUTRAL
WTRPRF	WATERPROOFING	SCR	SCRIBE	NIC	NOT IN CONTRACT
WWF	WELDED WIRE FABRIC	SCRN	SCREEN	NMT	NON-METALLIC
		SCUP	SCUPPER	NO	NUMBER
		SCWD	SOLID CORE WOOD DOOR	NOM	NOMINAL
X		SE	STRUCTURAL ENGINEER	NR	NOISE REDUCTION
X HVY	EXTRA HEAVY	SECT	SECTION	NRC	NOISE REDUCTION COEFFICIENT
X STR	EXTRA STRONG	SECUR	SECURITY	NS	NEAR SIDE
XH	EXTRA HEAVY	SECY	SECRETARY	NTS	NOT TO SCALE
		SED	SEWAGE EJECTOR DISCHARGE		
Y		SEL	SELECT	O	OUT
YD	YARD	SERV	SERVICE	O TO O	OUT TO OUT
YR	YEAR	SEV	SEWAGE EJECTOR VENT	O, O'	OVER
		SF	SQUARE FEET	OA	OVERALL
		SF	SQUARE FOOT	OC	ON CENTER
		SFGL	SAFETY GLASS	OD	OUTSIDE DIAMETER
		SG	SINGLE	OF	OUTSIDE FACE
		SGG	STRUCTURAL GLAZING GASKET	OFF	OFFICE
		SGI	SINGLE	OH	OVERHEAD
		SGS	SILICONE GLAZING SEALANT	OH	OVERHEAD DOOR
		SHORG	SHORING	OPNG	OPENING(S)
		SHT	SHEET	OPP	OPPOSITE
		SHTHG	SHEATHING	OPP H	OPPOSITE HAND
		SHWR	SHOWER	OPR	OPERABLE
		SIM	SIMILAR	ORD	OVERFLOW ROOF DRAIN
		SK	SINK	ORN	ORNAMENTAL
		SLOT	SLOTTED	ORNA	ORNAMENTAL
		SLV	SLEEVE	OSD	OPEN SIGHT DRAIN
		SNT	SEALANT	OUT	OUTLET
		SP	SOIL PIPE	OVFL	OVERFLOW
		SPEC	SPECIFICATION	OVHD	OVERHEAD
		SPECS	SPECIFICATIONS	OZ	OUNCE
		SPK	SPEAKER		
		SPL	SPECIAL	P	
		SPLR	SPRINKLER	P SL	PIPE SLEEVE
		SQ	SQUARE	PA	PUBLIC ADDRESS
		SQD	SUB-SOIL DRAIN	PB	PULL BOX
		SSGS	SILICONE STRUCTURAL GLAZING SEALANT	PBD	PARTICLE BOARD
		SST	STAINLESS STEEL	PCF	POUNDS PER CUBIC FOOT
		STC	SOUND TRANSMISSION CLASS	PCPL	PORTLAND CEMENT PLASTER
		STD	STANDARD	PD	PLAZA DRAIN
		STG	SEATING	PED	PEDESTAL OR PEDESTRIAN
		STGG	STRUCTURAL GLAZING GASKET	PEDR	PEDESTRIAN
		STGR	STAGGER	PERF	PERFORATE
		STIFF	STIFFENER	PERIM	PERIMETER
		STL	STEEL	PERP	PERPENDICULAR
		STM	STEAM	PKG	PARKING
		STR	STORAGE	PKWY	PARKWAY
		STRFR	STRAIGHT (RE-BARS)	PL	PLATE
		STRFR	STOREFRONT	PLAM	PLASTIC LAMINATE
		STRUC	STRUCTURAL	PLAS	PLASTER
		STRUCT	STRUCTURAL	PLBG	PLUMBING
		STW	STORM WATER	PLSTC	PLASTIC
		SUPP	SUPPLEMENTARY, SUPPLEMENT	PLTF	PLATFORM
		SUR	SURFACE	PLYWD	PLYWOOD
		SURF	SURFACE	PNEU	PNEUMATIC
		SUSP	SUSPENDED	PNL	PANEL
		SW	SWITCH	PNT	PAINT
		SY	SQUARE YARD	POL	POLISH(ED)
		SYM	SYMMETRICAL	POLYST	POLYSTRENE
		SYN	SYNTHETIC	PORT	PORTABLE
		SYS	SYSTEM(S)	POT W	POTABLE WATER
		T		PR	PAIR
		T&G	TONGUE AND GROOVE	PRCST	PRECAST
		T/	TOP	PRE	PREFINISHED
		TAN	TANGENT	PREFAB	PREFABRICATED
		TC	TOP OF CURB	PREFN	PREFINISHED
		TD	TRENCH DRAIN	PRESS	POLYSTYRENE
		TEL	TELEPHONE	PRI	PRIMARY
		TEMP	TEMPORARY	PRTECN	PROTECTION
		TER	TERRAZZO	PRTN	PARTITION
		THK	THICK	PSF	POUNDS PER SQUARE FOOT
		THRESH	THRESHOLD	PT	PAINT
		THRU	THROUGH	PTC	POST-TENSIONED CONCRETE
		TKBD	TACKBOARD	PTD	PAINTED
		TLC	TOILET	PTN	PARTITION
		TOL	TOLERANCE	PVC	POLYVINYL CHLORIDE
		TOS	TOP OF STEEL	PVF	POLYVINYLIDENE FINISH
		TOW	TOP OF WALL	PVG	PAVING
		TP	TOP OF PAVEMENT	PVMT	PAVEMENT
		TPTN	TOILET PARTITION	PVT	PRIVATE
		TRAF	TRAFFIC	PWR	POWER

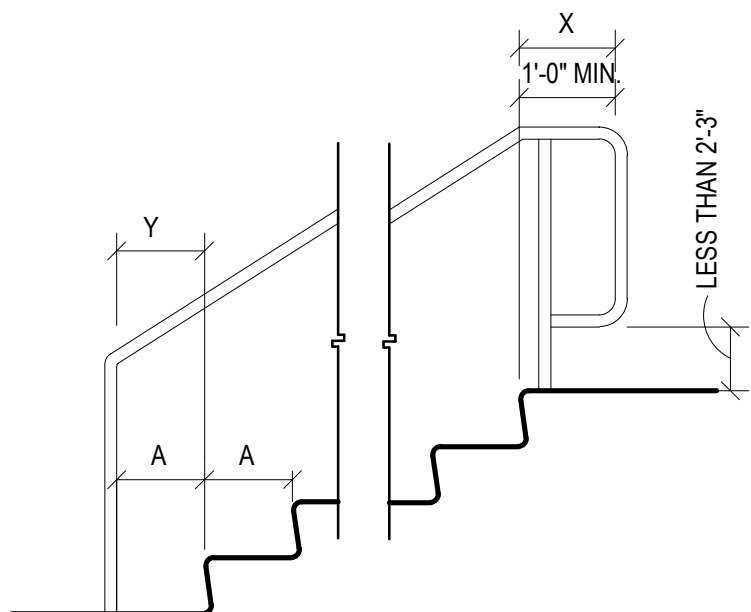
HC	HOLLOW CORE	DO	DOOR OPENING	A	AND
HD	HEAD, HEADER, HEAVY DUTY	DPDR	DAMPER	&	AND
HDOP	HANDICAPPED (BETTER CALLED "ACCESSIBLE")	DR	DOOR	ABV	ABOVE
HDN	HARDEN	DRN	DRAIN	ACCESS	ACCESSORY
HGR	HEADER	DS	DOWNSPOUT	ACI	AMERICAN CONCRETE INSTITUTE
HDMD	HARDWOOD	DSOCON	DISCONNECT	ACOUS	ACOUSTICAL(A)
HDWE	HARDWARE	DSP	DRY STANDPIPE	ADOL	ADDITIONAL
HEX	HEXAGONAL	DTL	DETAIL	ADJ	ADJUSTED
HGR	HANGER	DWG	DRAWING	AFI	ABOVE FINISHED FLOOR
HGT	HEIGHT	DWGS	DRAWINGS	AHJ	AUTHORITIES HAVING JURISDICTION
HID	HIGH INTENSITY DISCHARGE	DWR	DRAWER	AL	ALUMINUM
HM	HOLLOW METAL	E	EACH	ALT	ALTERNATE
HORIZ	HORIZONTAL	EA	EACH	ALUM	ALUMINUM
HP	HIGH POINT	EC	ECCENTRIC	AMT	AMOUNT
HR	HOUR	ECC	ECCENTRIC	ANCH	ANCHOR, ANCHORAGE
HSS	HEAT STRENGTHENED	ED	EMERGENCY DRAIN	ANNUNC	ANNUNCIATOR
HSS	HOLLOW STAINLESS STEEL	EJ	EXPANSION JOINT	ANOD	ANODIZED
HT	HEIGHT	EJECT	EJECTOR	ANT	ANTENNA
HTG	HEATING	EL	ELEVATION OR ELEVATOR	AOR	ARCHITECT OF RECORD
HTR	HEATER	ELAST	ELASTOMERIC	APPL	APPLIANCE
HTW	HIGH TEMPERATURE WATER	ELEC	ELECTRICAL	APPROX	APPROXIMATE
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	ELEV	ELEVATOR OR ELEVATION	APRVD	APPROVED
HVY	HEAVY	ELP	EMERGENCY LIGHTING PANEL	ARCH	ARCHITECT(URAL)
HW	HOT WATER OR HEAVY WALL	EMBED	EMBEDDING(JOINT)	ASPH	ASPHALT
HWC	HOT WATER CIRCULATING OR HEAVY WALL CONDUIT	EMER	EMERGENCY	ASSOC	ASSOCIATION, ASSOCIATE
HWD	HARDWOOD	EMAMEL	EMAMEL	ASSY	ASSEMBLY
HWH	HOT WATER HEATER	ENCL	ENCLOSURE	AUTH	AUTHORIZED
HWR	HOT WATER RECIRCULATING RETURN	ENG	ENGINEER	AUTO	AUTOMATIC
HWS	HOT WATER SUPPLY	ENGR	ENGINEER(ED)	AVG	AVERAGE
HWY	HIGHWAY	ENT	ENTRANCE		
HYD	HYDRAULIC	ENTR	ENTRANCE	B	BACK TO BACK
HYDRO	HYDROSTATIC	SOR	ENGINEER OF RECORD	B TO B	BACK TO BACK
		EOS	EDGE OF SLAB	B/	BOTTOM (OF)
		EPDM	ETHYLENE PROPYLENE DIENE MONOMER	BD	BOARD (OR BUILDING DEPARTMENT)
		EQ	EQUAL	BETW	BETWEEN
		EQUIP	EQUIPMENT	BEV	BEVEL
I		ESC	ESCALATOR	BLDG	BUILDING
ID	INSIDE DIAMETER	EST	ESTIMATE	BLK	BLOCK
IN	INCH	EVAP	EVAPORATOR	BLKG	BLOCKING
INCAND	INCANDESCENT	EWI	ELECTRIC WATER HEATER	BLW	BELOW
INCR	INCREASE	EX	EXISTING	BM	BEAM (OR BENCHMARK)
INFILTR	INFILTRATION	EXCAV	EXCAVATE	BOL	BOLLARD
INFO	INFORMATION	EXEC	EXECUTIVE	BOLD	BOLD
INSP	INSPECT	EXG	EXISTING	BOT	BOTTOM
INSTRUM	INSTRUMENT(ATION)	EXH	EXHAUST	BRDG	BRIDGE, BRIDGING
INSUL	INSULATION	EXH AIR	EXHAUST AIR	BRDLM	BROADLOOM
INT	INTERIOR OR INTERNAL	EXIST	EXISTING	BRG	BEARING
INTERM	INTERMEDIATE	EXP	EXPANSION OR EXPOSED	BRKT	BRACKET
INTLK	INTERLOCK(ING)	EXP JT	EXPANSION JOINT	BRZ	BRONZE
IW	INDIRECT WASTE	EXPN	EXPANSION	BU	BUILT UP
		EXPS	EXPOSED(D)	BUR	BUILT UP ROOF
		EXT	EXTERIOR	BW	BOTH WAYS
J		EXTR	EXTRUDE	C	CENTER
J BOX	JUNCTION BOX			C/C	CENTER TO CENTER
JAN	JANITOR	F	FIRE ALARM OR FRESH AIR	CAB	CABINET
JC	JANITOR'S CLOSET	FAB	FABRICATION	CAP	CAPACITY
JCT	JUNCTION	FAR	FLOOR AREA RATIO	CEM	CEMENT(TIOUS)
JST	JOIST	FAST	FASTENER OR FASTEN	CER	CERAMIC
JT	JOINT	FC	FOOT CANDLE	CF	CUBIC FEET
K		FD	FLOOR DRAIN, OR FIRE DEPARTMENT	CFI	COUNTERFLASHING
KG	KILOGRAM	FE	FIRE EXTINGUISHER	CFT	CUBIC FOOT
KIP	KILOPOUND (1000 POUNDS)	F&E	FIRE EXTINGUISHER AND CABINET	CHAM	CHAMFER
KT	KITCHEN	FDN	FOUNDATION	CHR	CHILLED WATER RETURN
KM	KILOMETER	FDC	FIRE DEPARTMENT CONNECTION	CHL	CHILLED WATER SUPPLY
KO	KNOCKOUT	FE	FIRE EXTINGUISHER	CIP	CAST-IN-PLACE
KPL	KICKPLATE	F&C	FIRE EXTINGUISHER AND CABINET	CIR	CIRCLE
KVA	KILOVOLT-AMPERE	FEC	FIRE EXTINGUISHER CABINET	CJ	CONTROL JOINT
KW	KILOWATT	F&E	FIXTURES, FURNISHINGS & EQUIPMENT	CL	CENTERLINE
KWH	KILOWATT HOUR	FGR	FIBERGLASS REINFORCED	CLG	CEILING
L		FHC	FIRE HYDRANT	CLKG	CAULKING
LA	LANDSCAPE ARCHITECT	FIN	FINISH, FINISHED	CLR	CLEAR
LAB	LABORATORY, LABOR	FIN	FINISH, FINISHED	CLR OPG	CLEAR OPENING
LAD	LADDER	FKT	FLOOR OR FIRE LINE	CML	CONCRETE MASONRY UNIT
LAM	LAMINATE, LAMINATED	FL	FLOOR OR FIRE LINE	CND	CONDITION
LAT	LATERAL	FLASH	FLASHING	CNTR	CENTER (OR COUNTER)
LAV	LAVATORY	FLDG	FOLDING	COATG	COATING
LB	POUND	FLEX	FLEXIBLE	COEF	COEFFICIENT
LBL	LABEL	FLG	FLOORING	COLG	COLORING
LBR	LUMBER	FLR	FLOOR(ING)	COL	COLUMN
LCD	LIQUID CRYSTAL DIODE	FLUOR	FLUORESCENT	COM	COMMON
LDR	LEADER DRAIN	FM	FACTORY MUTUAL COMPANY	COMB	COMBINATION
LH	LEFT HAND	FO	FINISHED OPENING	COMP	COMPRESSED
LIB	LIBRARY	FOC	FACE OF CONCRETE	COMPT	COMPARTMENT
LIN	LINEAR	FOF	FACE OF FINISH	CON	CONSTRUCTION
LINO	LINOLEUM	FOS	FACE OF STUDS	CONC	CONCRETE

	GLASS SYMBOL
	MASONRY COURSING
	WOOD VENEER
	STONE

Seal / Signature	
	
Project Name	05.19.2021
SSRC BASE AREA IMPROVEMENTS	
Project Number	
003.7835.000	
Description	
SYMBOLS AND ABBREVIATIONS	
Scale	

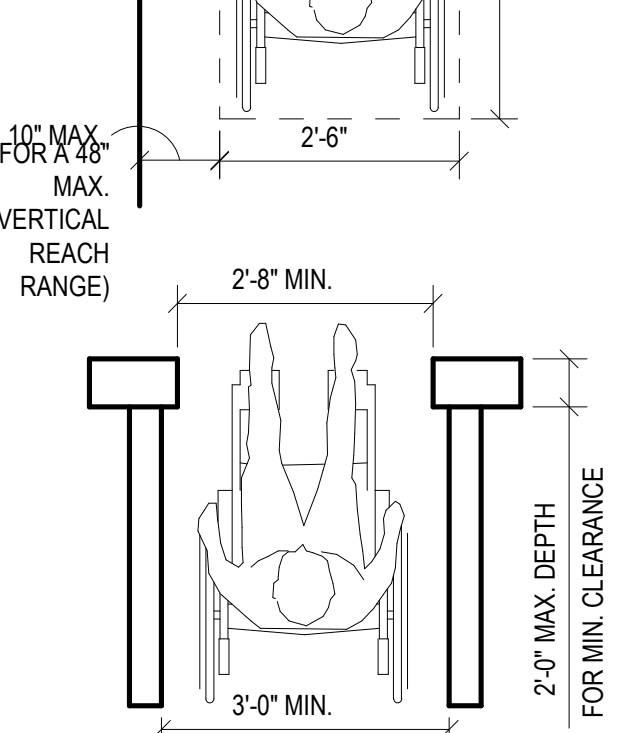
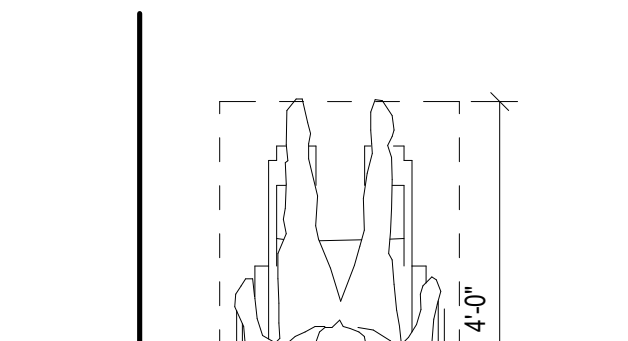
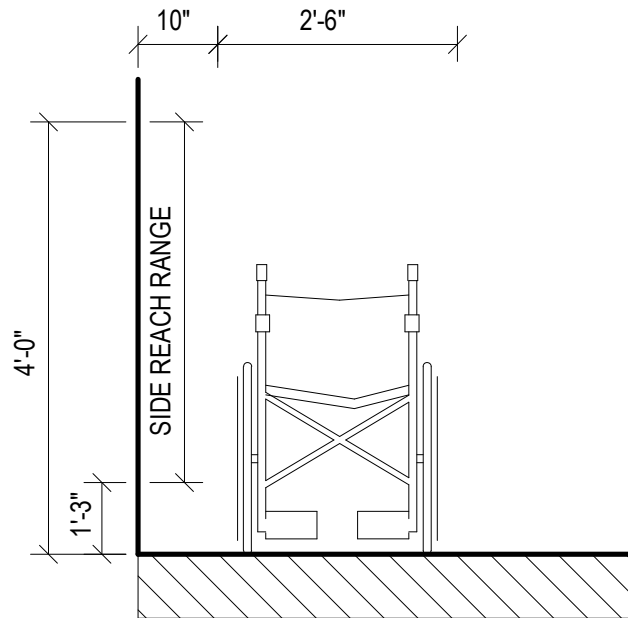
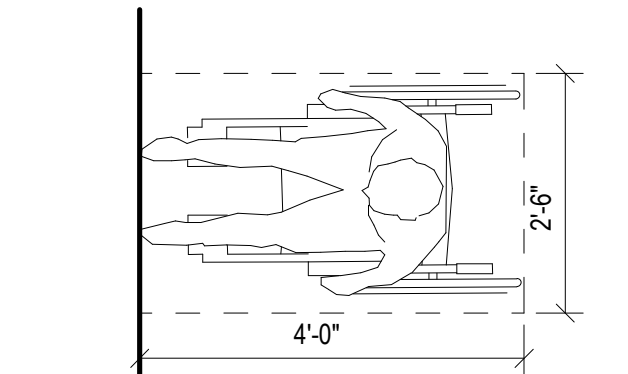
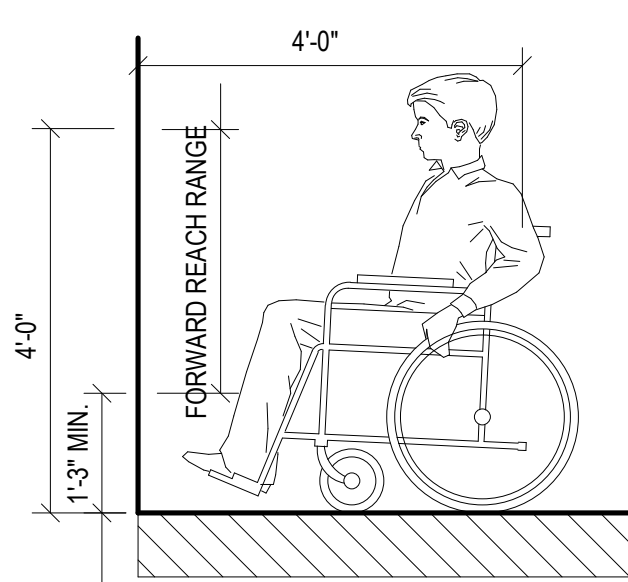


05 RAMP HANDRAILS



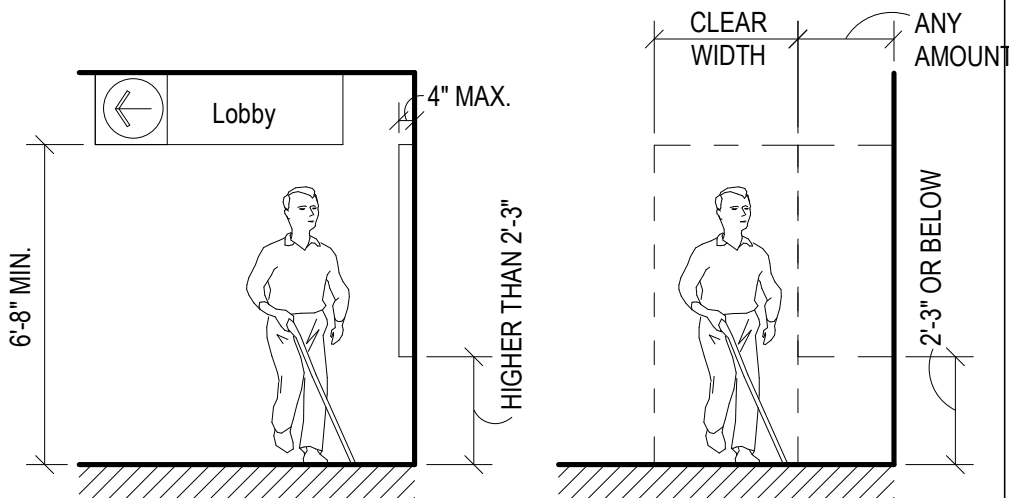
06 HANDRAIL EXTENSIONS

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



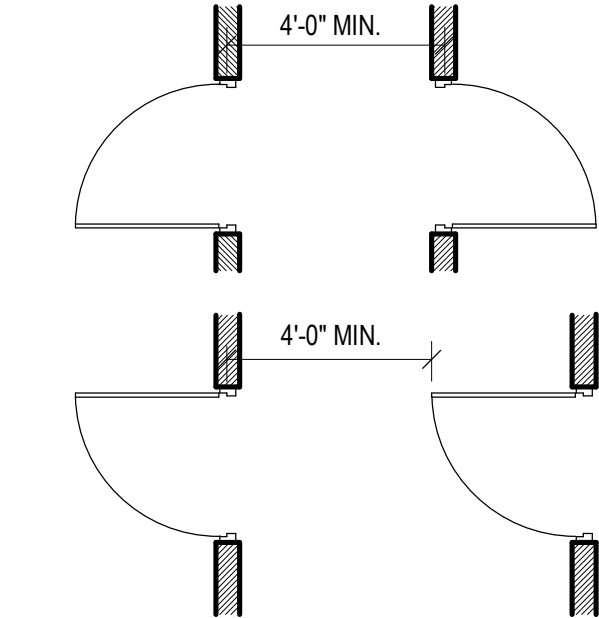
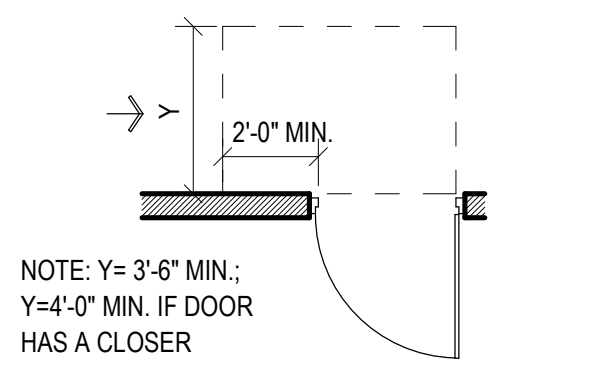
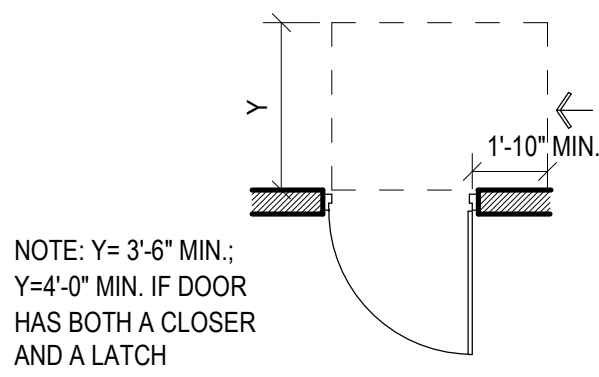
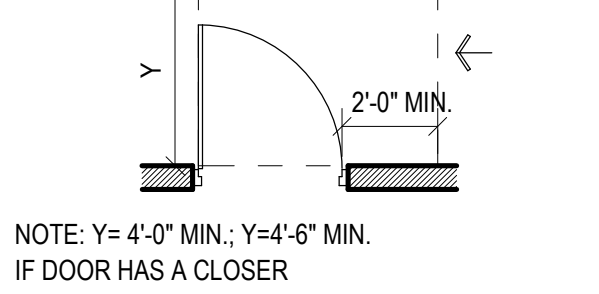
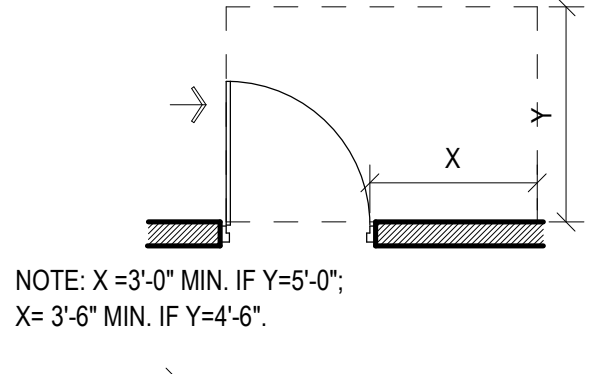
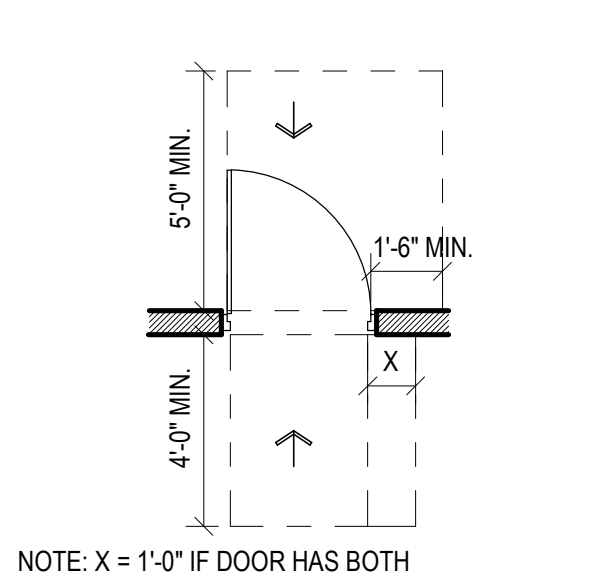
03 REACH RANGES

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



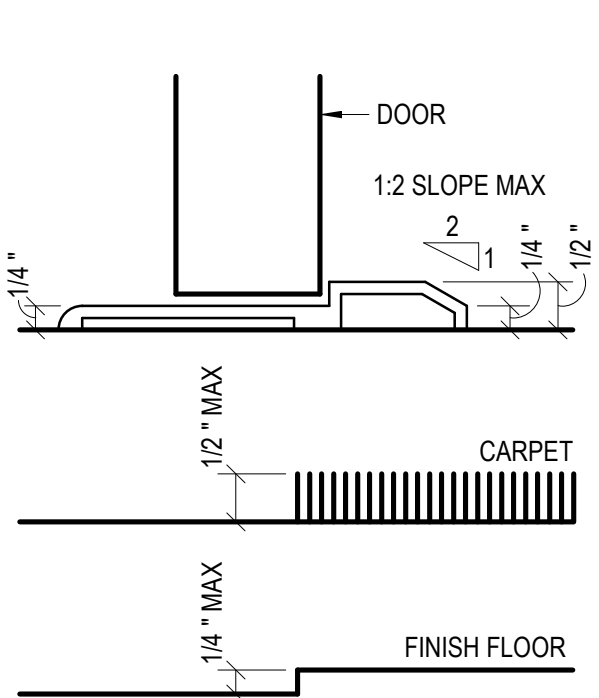
04 PROTRUDING OBJECTS

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



01 CLEARANCES

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



02 THRESHOLD

SCALE: FULL

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8586
Fax 303.625.6623



DESIGNWORKSHOP
141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494



me engineers
12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

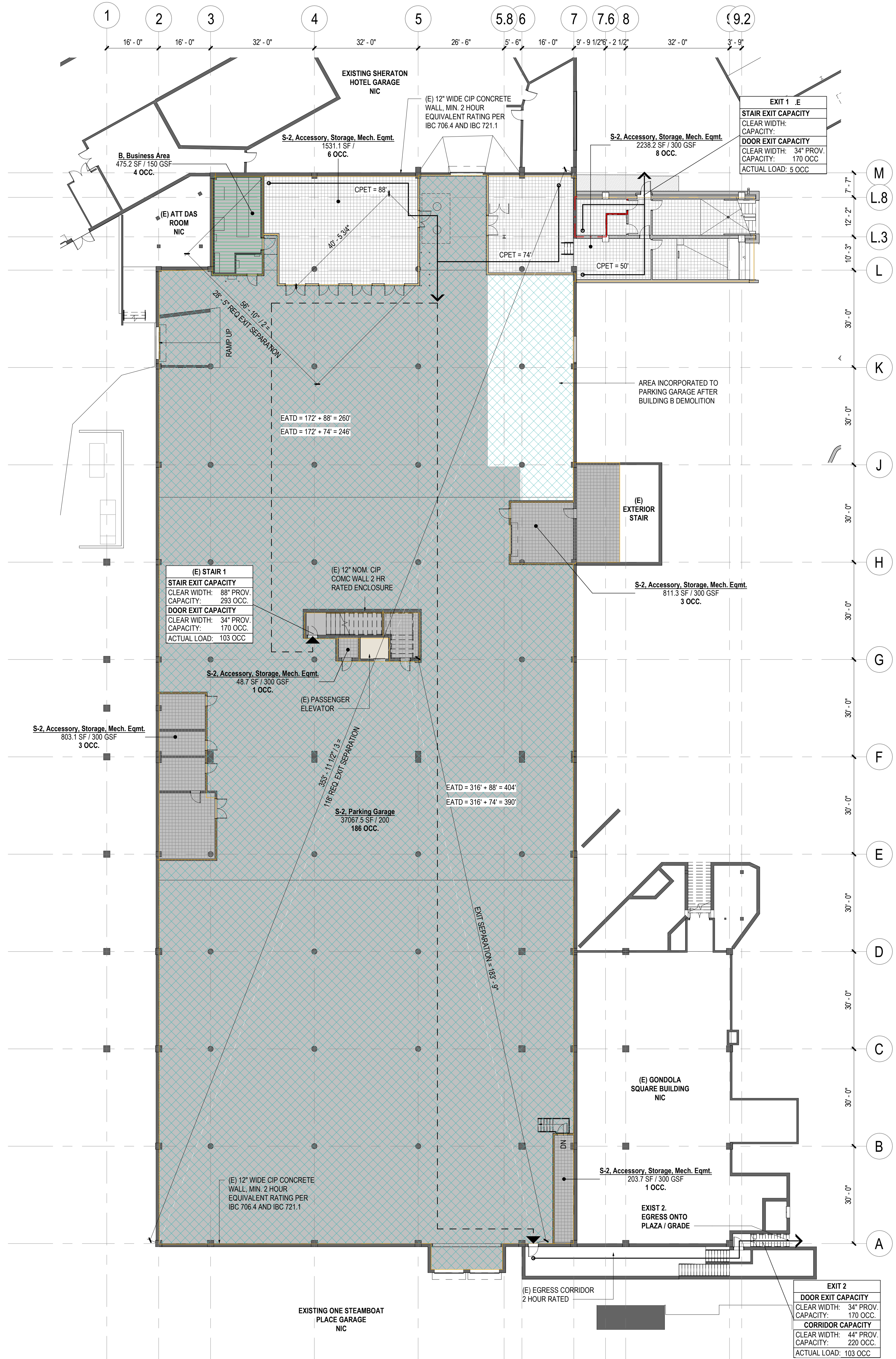
Description

ADA REQUIREMENTS & DETAILS

Scale

1 1/2" = 1'-0"

1B-G1.110



GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL 00, 01	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA - ENTIRE LEVEL:	APPROX. 42,807 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 5,144 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
	OCCUPANCY, FUNCTION OF SPACE	S-2 (300 GSF/PERSON):	201 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	BUSINESS (100 GSF/PERSON):	15 OCCUPANTS
	1HR FIRE BARRIER / 45MIN OPENINGS	TOTAL:	211 OCCUPANTS
	2HR FIRE BARRIER / 90MIN OPENINGS	EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	3HR FIRE BARRIER	OTHER EGRESS COMPONENTS:	43 INCHES
FUNCTION LEGEND (OCCUPANT LOAD)		REQUIRED (2 IN OCCUPANT):	102 INCHES
	ASSEMBLY, UNCOND.	PROVIDED AT EXIT STAIR DOORS:	IBC 1005.3.1
	ASSEMBLY, COND.	EXIT STAIR WIDTH:	64 INCHES
	BUSINESS AREA	REQUIRED (3 IN OCCUPANT):	513 INCHES
	MERCANTILE	PROVIDED AT EXIT STAIRS AND EXIT CORRIDOR	
	KITCHENS, COMMERCIAL	MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
	NOT IN SCOPE	MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	44 INCHES
	RESIDENTIAL	MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.3.1
	ACCESS, STORAGE, MECHANICAL	NUMBER OF EXITS PROVIDED:	2 EXITS
	EXERCISE ROOM	MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE C
	LOCKER ROOM	MAXIMUM COMMON PATH OF TRAVEL:	400 FEET (STORAGE)
	PARKING GARAGE	MAXIMUM DEAD END CORRIDOR:	IBC 1006.2.1 FOOTNOTE A
SHEET NOTES		MAXIMUM COMMON PATH OF TRAVEL:	100 FEET (STORAGE)
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
2. HVAC SHAFT FOR PARKING GARAGE NOT INCLUDED IN FLOOR GROSS.		REMOVEDNESS OF EXITS:	50 FEET
		LONGEST DIAGONAL REMOTENESS OF EXITS	SEE PLAN

01 EGRESS & OCCUPANCY PLAN - GARAGE
SCALE: 1/16" = 1'-0"

ALTRERRA east west partners
2305 Mount Werner Circle
Steamboat Springs, CO 80487

141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
EGRESS & OCCUPANCY PLAN - LEVEL 01

Scale
As indicated

1B-G3.101



GRAPHIC SYMBOLS LEGEND

EXIT ACCESS TRAVEL DISTANCE
COMMON PATH OF TRAVEL
SECURITY LOCATIONS
X-X, FUNCTION
OCCUPANCY, FUNCTION OF SPACE
1HR FIRE BARRIER / 20MIN OPENINGS
1HR FIRE BARRIER / 45MIN OPENINGS
2HR FIRE BARRIER / 90MIN OPENINGS
3HR FIRE BARRIER

FUNCTION LEGEND (OCCUPANT LOAD)

ASSEMBLY, UNCONC.
ASSEMBLY, CONC.
BUSINESS AREA
MERCANTILE
KITCHENS, COMMERCIAL
NOT IN SCOPE
RESIDENTIAL
ACCESS, STORAGE, MECHANICAL
EXERCISE ROOM
LOCKER ROOM
PARKING GARAGE

SHEET NOTES

1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.
2. HVAC SHAFT FOR PARKING GARAGE NOT INCLUDED IN FLOOR GROSS.

Steamboat
ALTERRA east west partners
MOUNTAIN COMPANY
2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler
1225 17th Street
Suite 150
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Tel 303.595.8585
Fax 303.825.6823

LANDMARK
141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP
1390 Lawrence Street
Suite 100
Denver, CO 80204
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MARTIN/MARTIN
12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

me engineers
14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR RECORD AND PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature

Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
003.7835.000
Description
EGRESS & OCCUPANCY PLAN - LEVEL 02
Scale
As indicated

UL DESIGN NO. U419 CONTINUED

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 17 of Volume 1 in the Fire Restive Directory.

CGC INC – Type SCX.

UNITED STATES GYPSUM CO – Type SCX, SGX.

USG BORAL ZAWAWI DRYWALL L L C SFZ – 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 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 3/8 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 (or No. 6 by 1-1/4 in. long bunge head fire drillier) 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 ZAWAWI DRYWALL L L C SFZ – 5/8 in. thick Type SCX

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 (multi-layer 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 (multi-layer 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 WRC; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ – 1/2 in. Type C; 5/8 in. Types C, SCX, 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, 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

UL DESIGN NO. U419 CONTINUED

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 ZAWAWI DRYWALL L L C SFZ – 1/2 in. Type C; 5/8 in. Types C, SCX, 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.

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
1		2-1/2	1 layer, 1/2 in. thick
1		1-5/8	1 layer, 3/4 in. thick
2		1-5/8	2 layers, 1/2 in. thick
2		1-5/8	2 layers, 5/8 in. thick
2		3-1/2	1 layer, 3/4 in. thick
3		1-5/8	3 layers, 1/2 in. thick
3		1-5/8	2 layers, 3/4 in. thick
3		1-5/8	3 layers, 5/8 in. thick
4		1-5/8	4 layers, 5/8 in. thick
4		1-5/8	4 layers, 1/2 in. thick
4		2-1/2	2 layers, 3/4 in. thick

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 ZAWAWI DRYWALL L L C SFZ – 1/2 in. Type C; 5/8 in. Types C, SCX, 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.

UL DESIGN NO. U419 CONTINUED

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, 5F, 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 3/8 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™

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 0.020 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™

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 Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV – Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC – Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO – Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC – Type SUPREME Framing System

UNITED METAL PRODUCTS INC – Type SUPREME Framing System

2E. **Framing Members* – Steel Studs** – (Not Shown, As an alternate to Item 2) – For use with Items 5F or 5G or 5J or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5J, 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.

STUDDO 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-STEEL™

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 0.020 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 – EB Stud

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™

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

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 DQC P51 or PS2, or APA Standard P88-108, 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 BZ12) 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 BZ12) 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 BZ12) Categories for names of Classified companies.

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 (multi-layer 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 (multi-layer 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:

UL DESIGN NO. U419

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

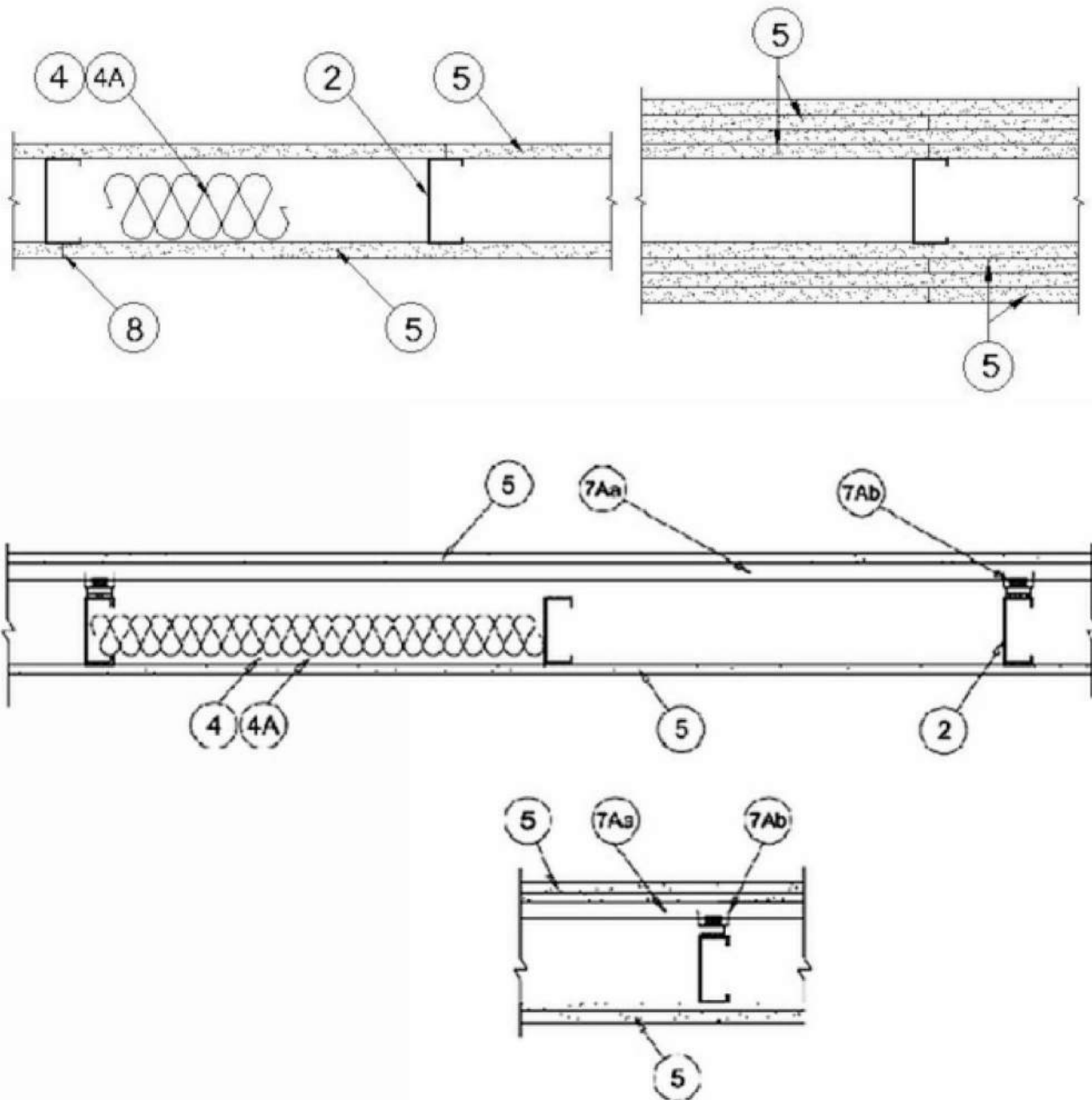
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U419

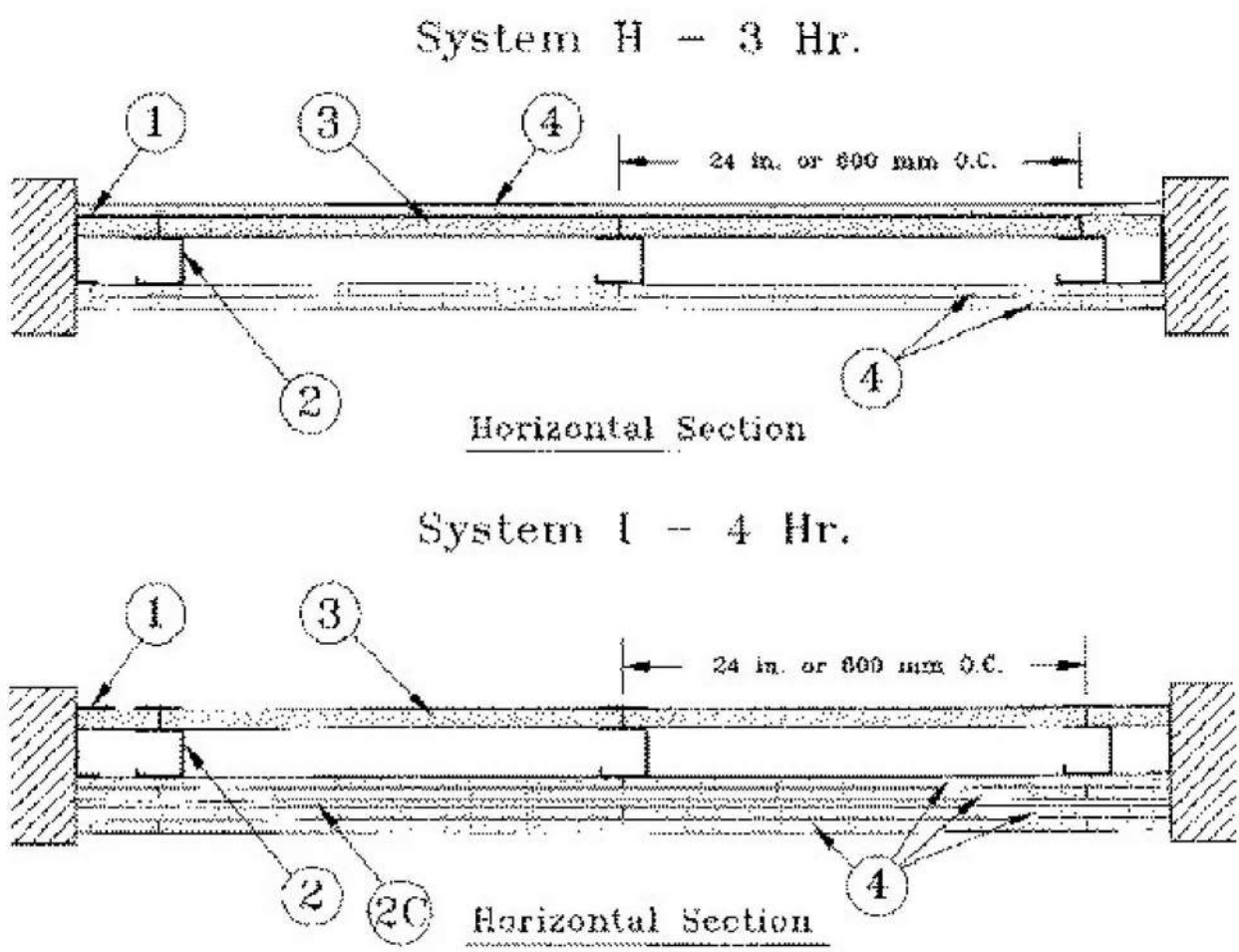
August 25, 2016

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.



UL DESIGN NO. U415 CONTINUED



1. **Floor, Side and Ceiling Runners** — "I" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) 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. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "I" - shaped runners.

2. **Steel Studs** — "C" - shaped stud, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. 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 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs** — (Not Shown) — "E" - shaped studs installed back to back in place of "C" - shaped studs (Item 2). "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), 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 to 1/2 in. less than floor to ceiling height.

2B. **Furring Channels** — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C" - or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System I - "I" - shaped, 25 MSG galv steel furring channels attached directly over inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

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 installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and 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. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members** — (Optional, Not Shown) — 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 secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

b. **Steel Framing Members** — Used to attach furring channels (Item 2Ea) to studs. Clips spaced max. 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

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 installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** — Used to attach furring channels (Item 2Fa) to studs (Item 2 or 2A). Clips spaced max. 24 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

3. **Gypsum Board** — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C" - or "E" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "I" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

GGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SLX

USG MEXICO S A DE C V — Type SLX

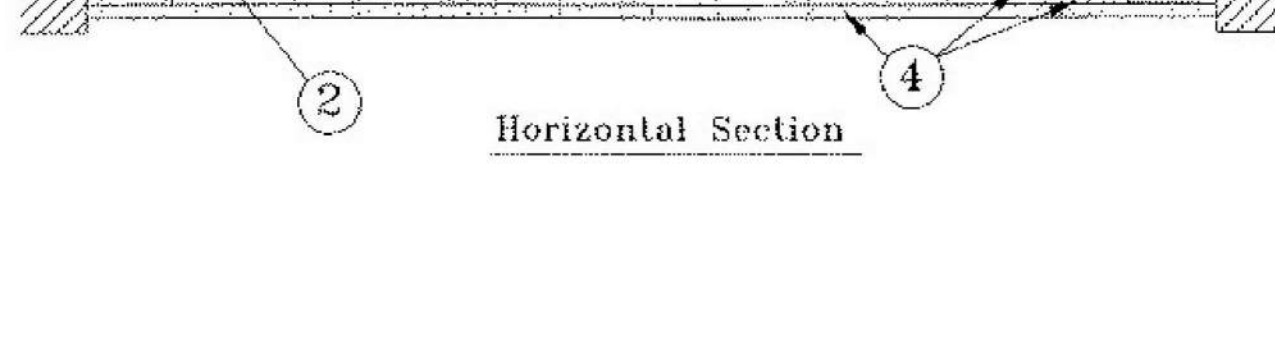
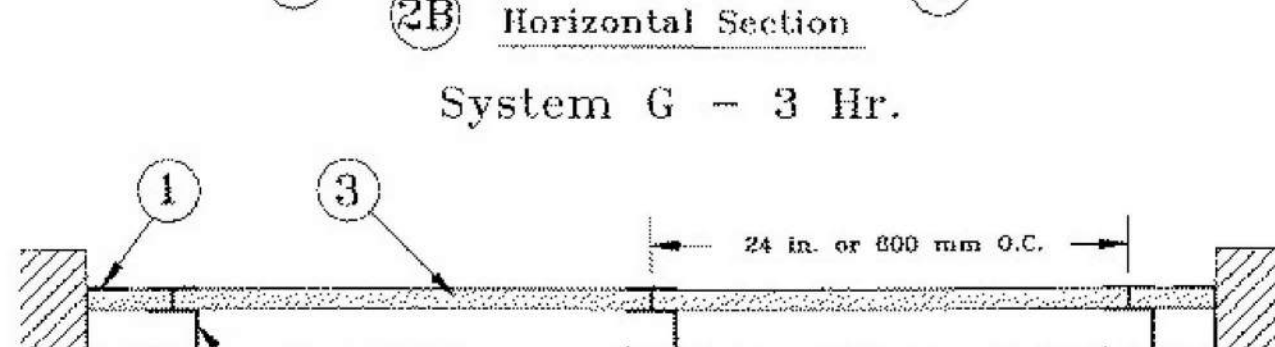
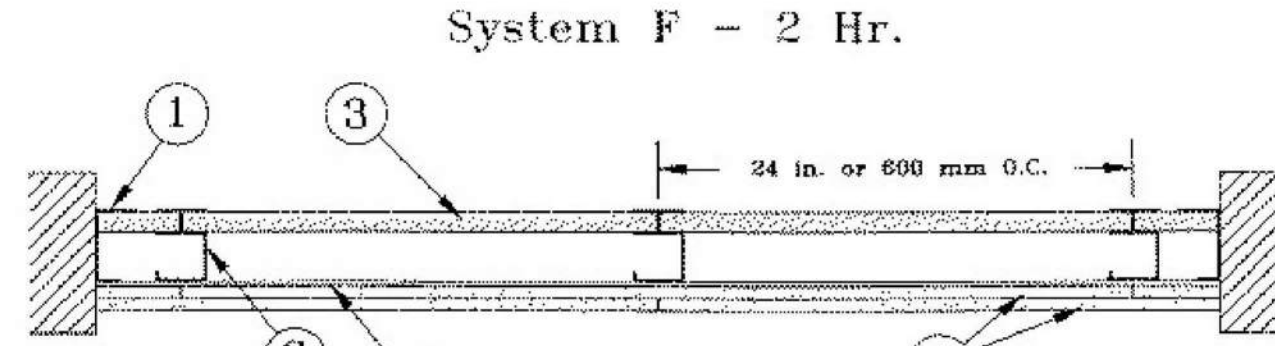
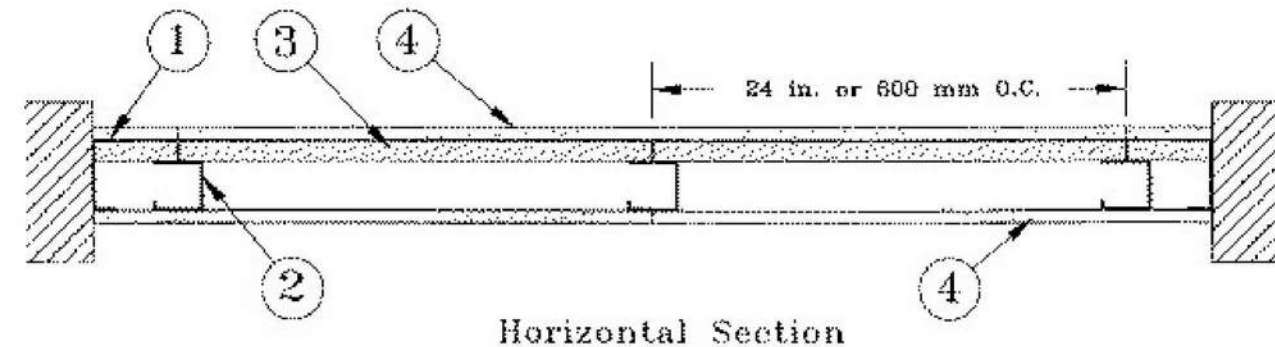
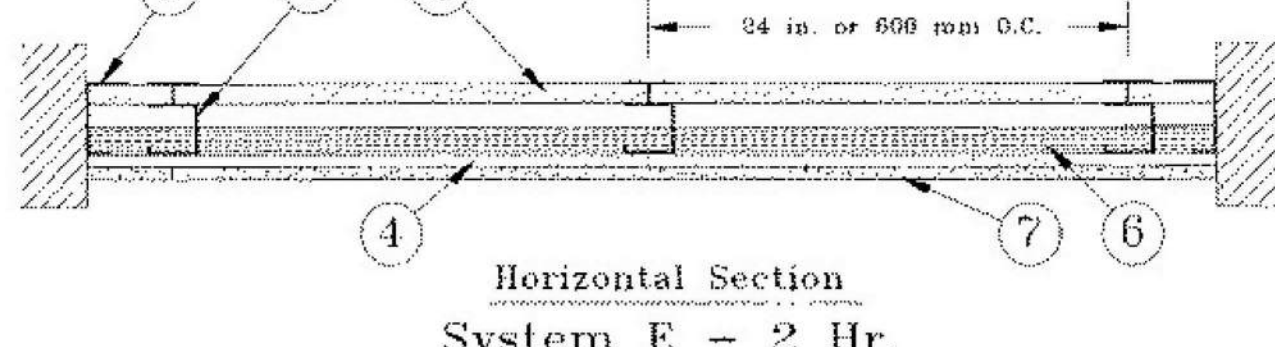
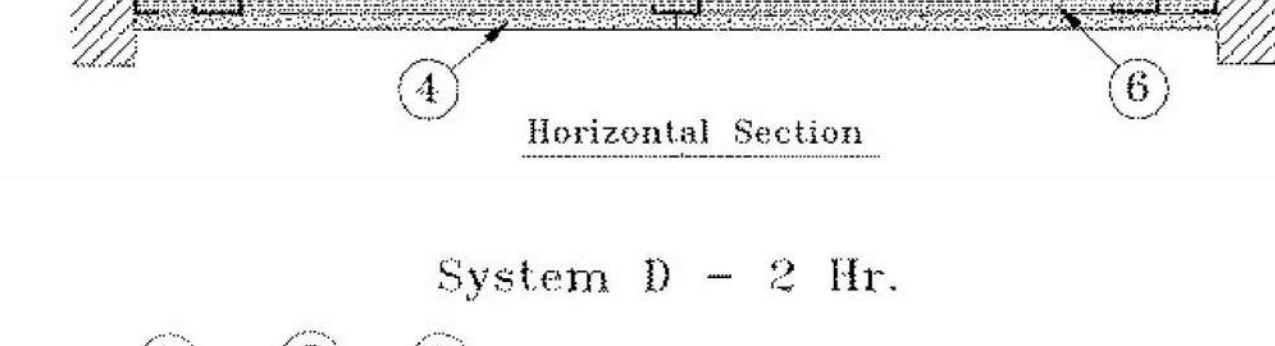
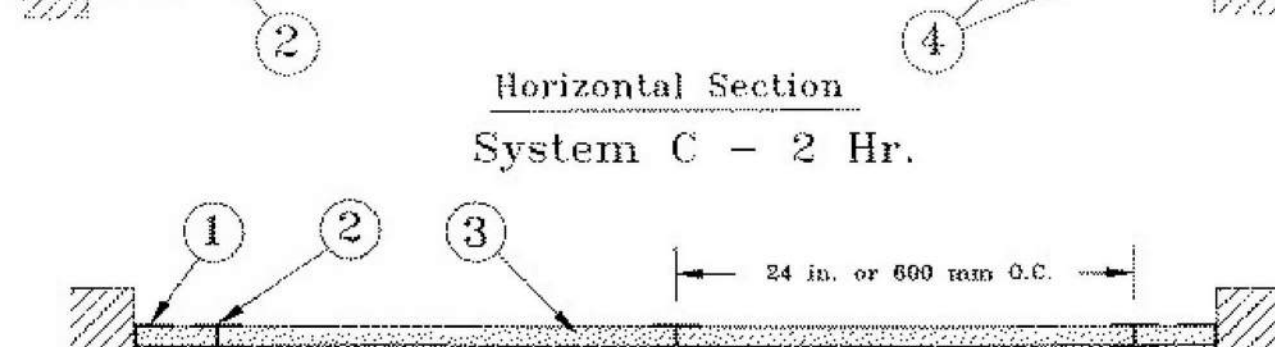
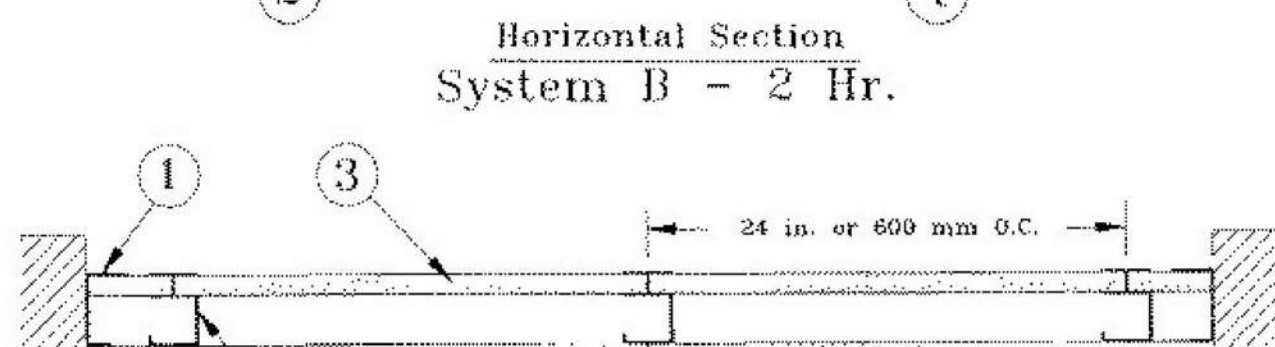
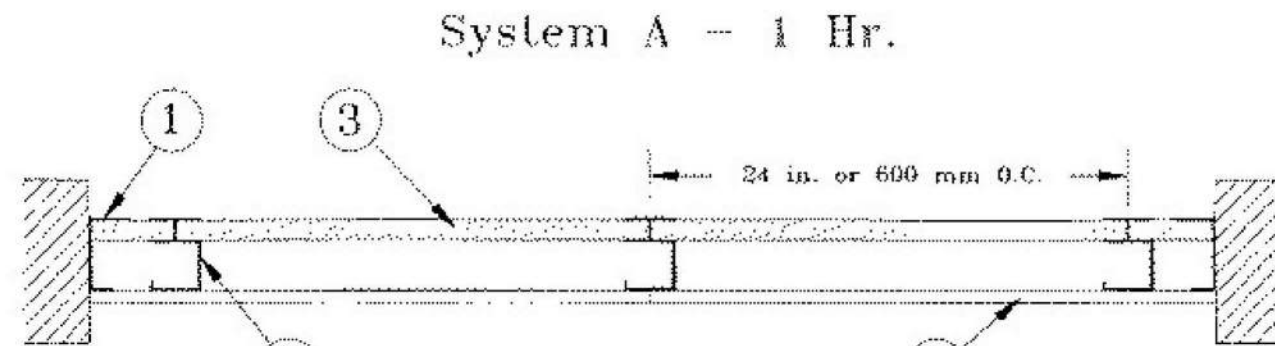
UL DESIGN NO. U415

Design No. U415

July 14, 2016

Nonbearing Wall Ratings — 1, 2, 3 or 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.



1. **Floor, Side and Ceiling Runners** — "I" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) 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. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "I" - shaped runners.

2. **Steel Studs** — "C" - shaped stud, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. 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 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs** — (Not Shown) — "E" - shaped studs installed back to back in place of "C" - shaped studs (Item 2). "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), 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 to 1/2 in. less than floor to ceiling height.

2B. **Furring Channels** — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C" - or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System I - "I" - shaped, 25 MSG galv steel furring channels attached directly over inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

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 installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and 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. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75), RSIC-V (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, 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 and 5E.

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 Isoform

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 and 5E.

b. **Steel Framing Members** — Used to attach furring channels (Item 7Ca) to 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.

PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members** — (Optional, Not Shown) — 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 secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

UL DESIGN NO. U419 CONTINUED

with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 24 in. OC. Fourth layer- 3 in. long screws, spaced 8 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 and 5E.

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 and 5E.

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 2-1/2 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 and 5E.

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 Isoform

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 and 5E.

b. **Steel Framing Members** — Used to attach furring channels (Item 7Ca) to 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.

PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members** — (Optional, Not Shown) — 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 secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.

b. **Steel Framing Members** — Used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

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

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 to the exterior face of the stud with two 1 in. long Type S-8 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 99.9% 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 99.9% 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 stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead tabs may be in place with standard adhesive tape if necessary.

* 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 2016-08-25

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

UL DESIGN NO. U419 CONTINUED

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5). **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	3-1/2 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 ULX

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. 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.

6A. **Fasteners** — (Not Shown) — For use with Item 5K- Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, 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 screws, spaced 16 in. OC. Second layer- 1-5/8 in. screws, spaced 8 in. OC

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5). **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

UL DESIGN NO. U415 CONTINUED

8. **Laminating Adhesive*** — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1, Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (B3J2) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4A) — 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 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips** — (Not Shown, for use with Item 4C) — 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 99.9% meeting the Federal specification QQ-L-201F, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) 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 4A) 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".

10A. **Lead Discs** — (Not Shown, for use with Item 4C) — 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 99.9% meeting the Federal Specification QQ-L-201F, Grades "B, C or D".

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) — 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 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) — 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 4B) 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.

* 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 2016-07-14

UL DESIGN NO. HW-D-1001

System No. HW-D-1001

October 21, 2015

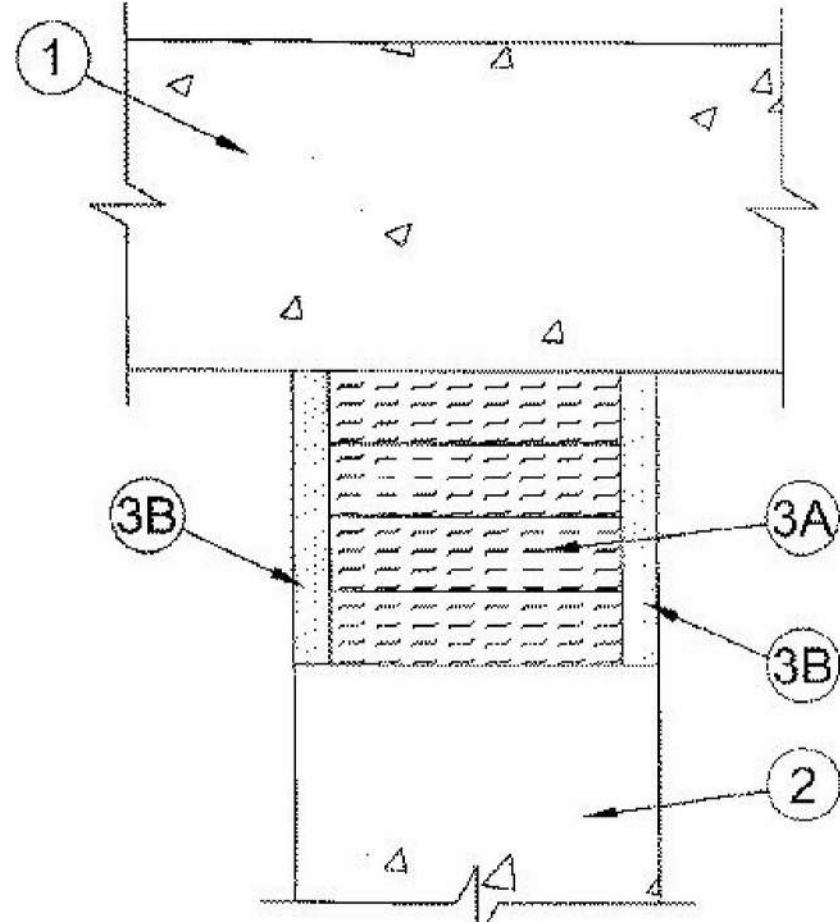
Assembly Ratings — 1, 2 & 3 Hr (See Item 1)

L Rating At Ambient — Less Than 1 CFM/LIN Ft

L Rating At 400 F — Less Than 1 CFM/LIN Ft

Nominal Joint Width — 4 In.

Class II Movement Capabilities — 25% Compression Or Extension



1. **Floor Assembly** — Lightweight or normal weight reinforced (100-150 pcf or 1600-2400 kg/m³) structural concrete. The hourly rating of the joint system is dependent upon the min thickness of the floor as tabulated below:

	Min Thickness of Floor, In (mm)	Assembly Rating, Hr
2-1/2 (64)		1
3-1/4 (83)		2
4-1/2 (114)		3

2. **Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System** — Max separation between bottom of floor and top of wall (at time of installation of joint system) is 4 in. (102 mm). The joint system is designed to accommodate

max 25 percent compression or extension from its installed width. The joint system shall consist of the following:

A. **Forming Material*** — Min 4 pcf (64 kg/m³) mineral wool batt insulation installed in joint opening as a permanent form. Pieces of batt to min width of 4 in. (102 mm) and installed edge-first into joint opening, parallel with joint direction, such that batt sections are compressed min 50 percent in thickness and such that the compressed batt sections are recessed from each surface of the wall to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly butted with butted seams spaced min 16 in. (406 mm) apart along the length of the joint.

INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — SAFE

ROXUL INC — SAFE

THERMAFIBER INC — Type SAF

B. **Fill, Void or Cavity Material*** — Min 1/2 in. (13 mm) thickness of fill material installed within joint on each side of the wall, flush with each surface of wall.

SPECIFIED TECHNOLOGIES INC — Pensil 300 Sealant or SpecSeal Systems S1L300 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 2015-10-21

UL DESIGN NO. U415 CONTINUED

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent 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. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs, inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent 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. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

System A With Type ULIX Gypsum Boards

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 (BKOV or B2J2) Categories** for names of Classified companies.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROXUL INC — Type AFB

THERMAFIBER INC — Type SAFB

7. **Cementitious Backer Units*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

base layer, for direct attachment only) — 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. See Items 1, 2, 2A, 2B and 2D. 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. For joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). 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 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only) — 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

5. **Joint Tape and Compound** — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets*** —

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

System A With Type ULIX Gypsum Boards

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 (BKOV or B2J2) Categories** for names of Classified companies.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROXUL INC — Type AFB

THERMAFIBER INC — Type SAFB

7. **Cementitious Backer Units*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

UL DESIGN NO. U415 CONTINUED

4. Gypsum Board* —

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, WRC, WRX, USGX. When ULIX is used insulation, Item 6, **Batts and Blankets*** is required and minimum stud depth is 4 in.

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S 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 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.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

SHEET NOTES

Steamboat
ALERRA east west partners
MOUNTAIN COMPANY

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Golden, CO
United States
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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR RECORD AND PERMIT

GENERAL NOTES

1. NOT ALL U.L. ASSEMBLIES LISTED HERE ARE USED ON THE PROJECT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



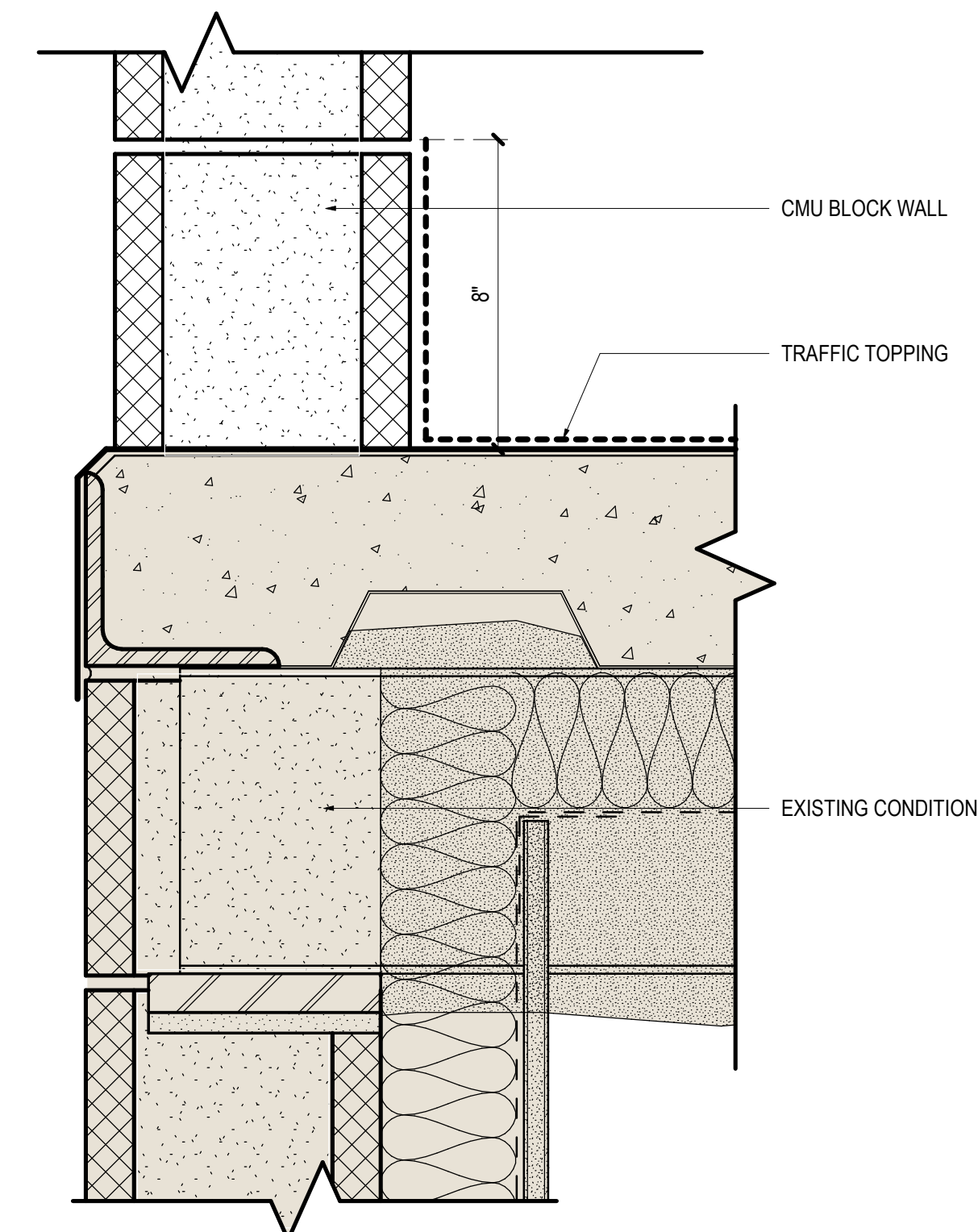
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Date: 05.19.2021

Project Number: 003.7835.000

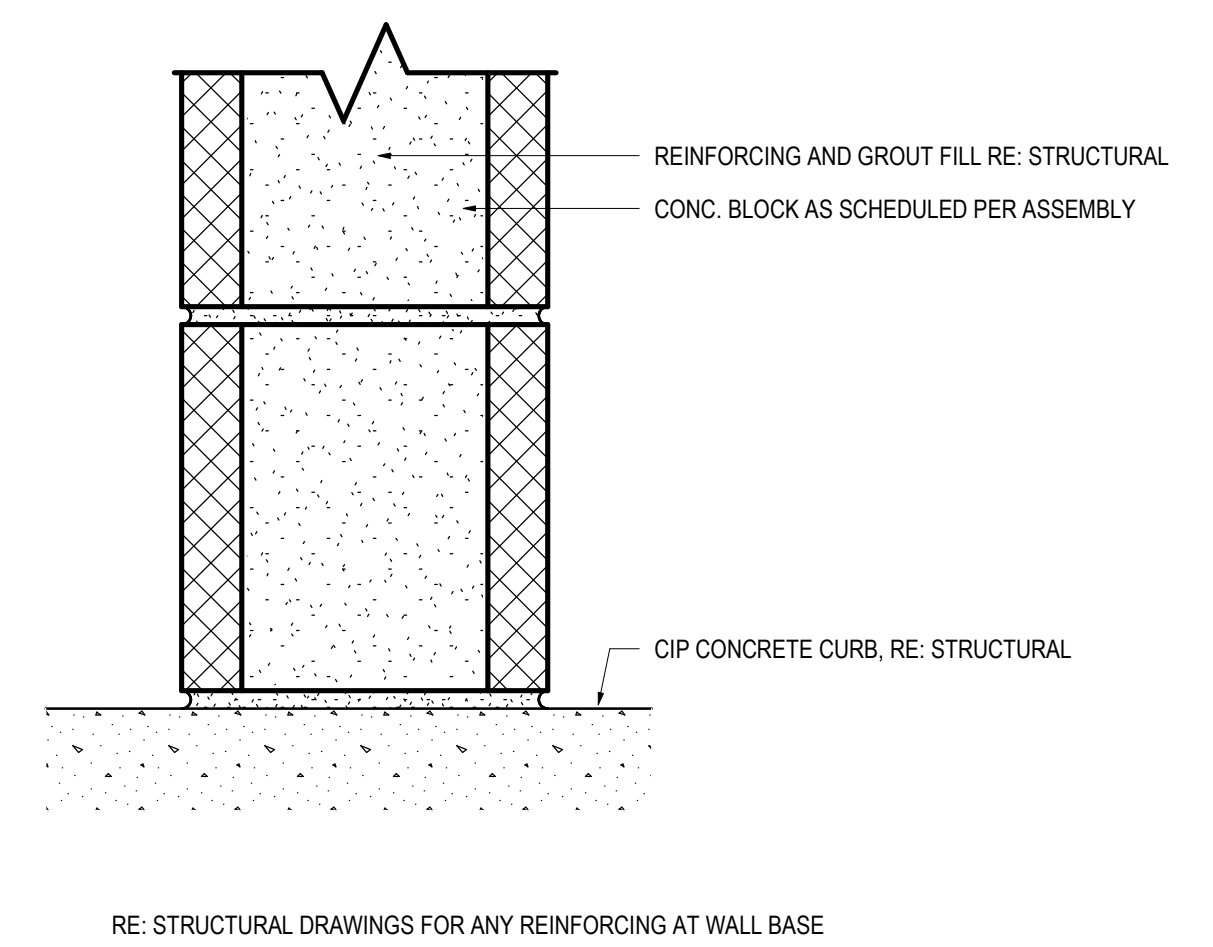
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Scale: 12" = 1'-0"

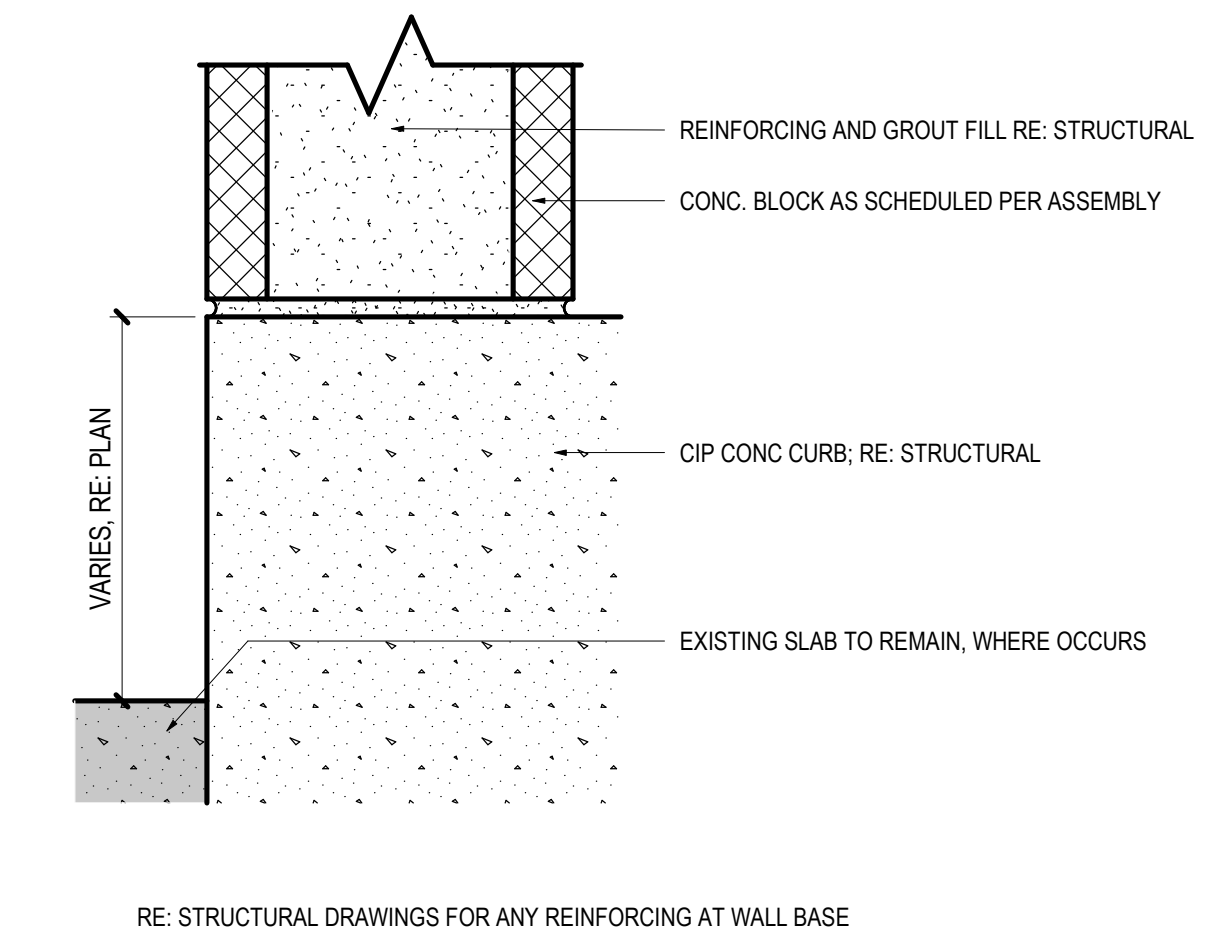
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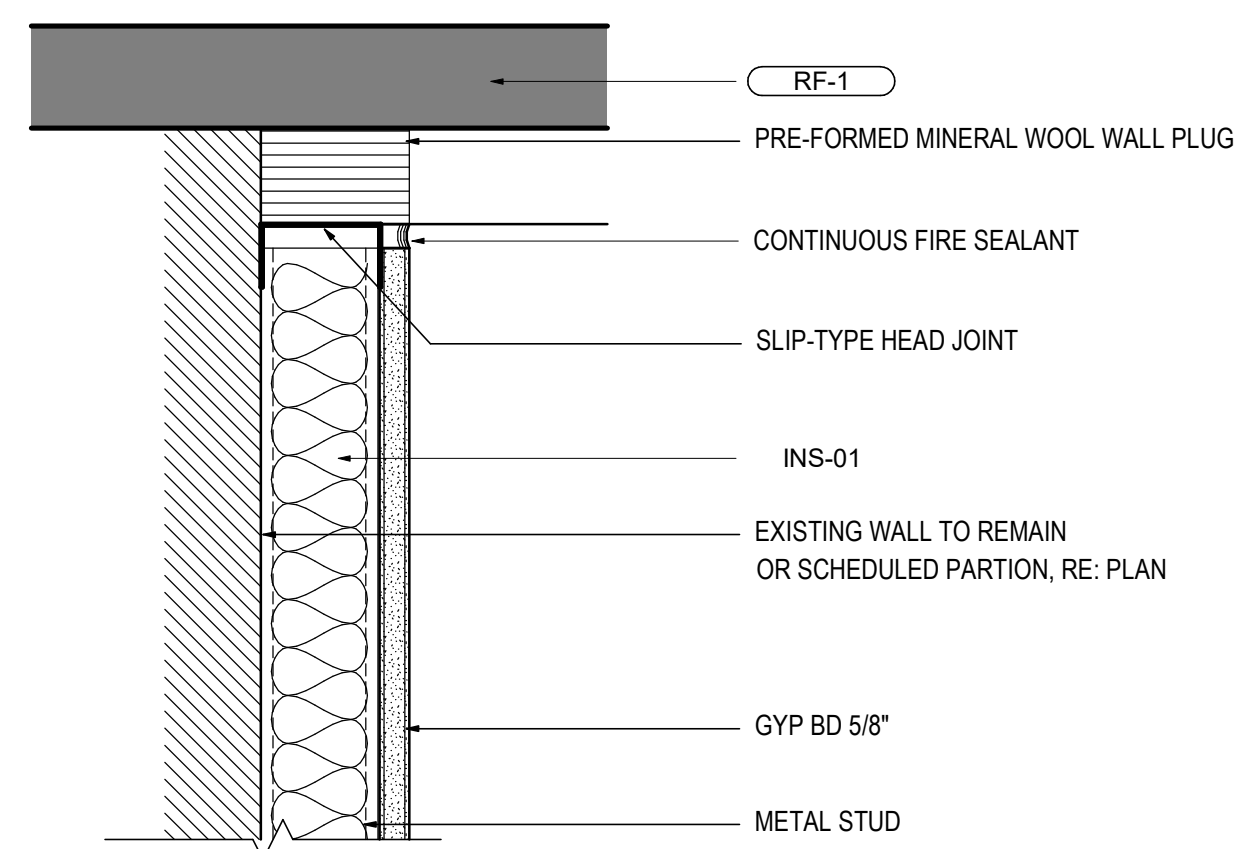
M T01



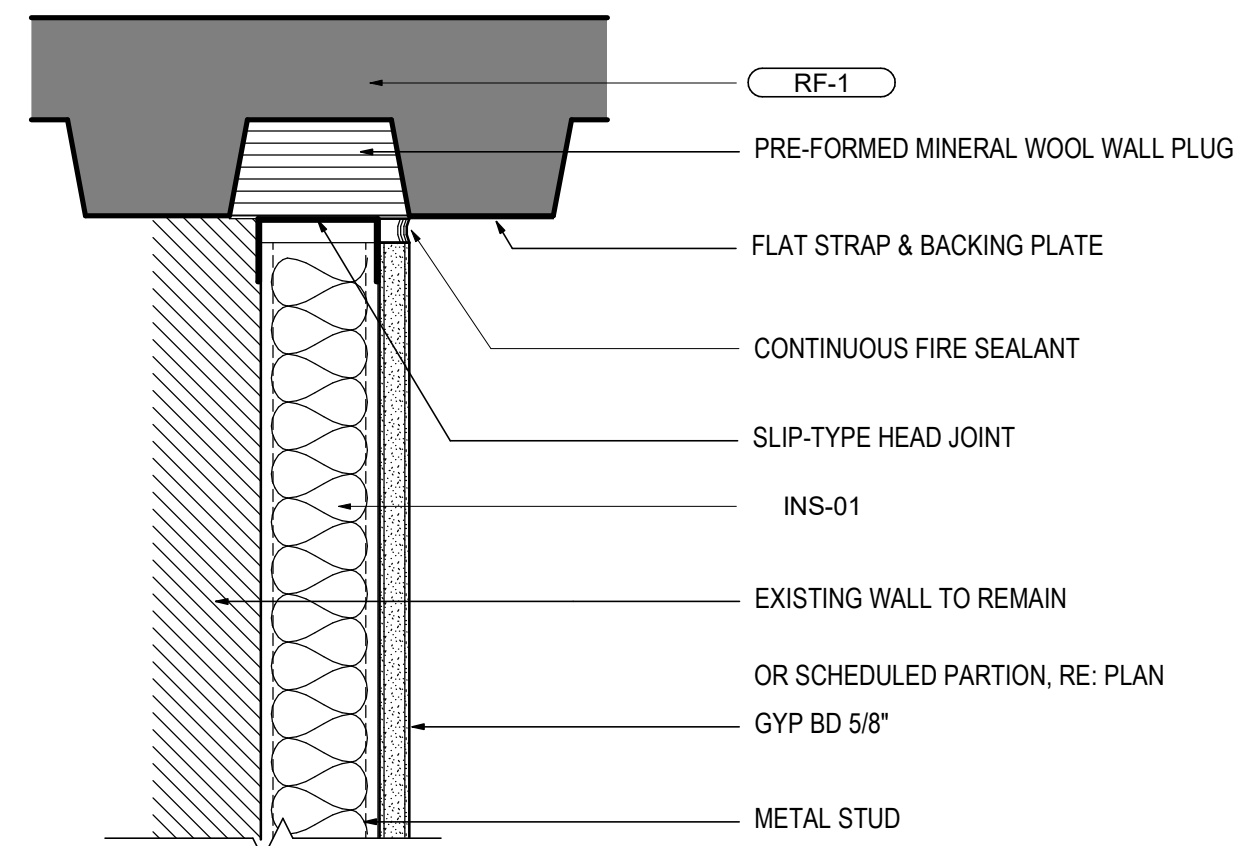
M B01



M B02

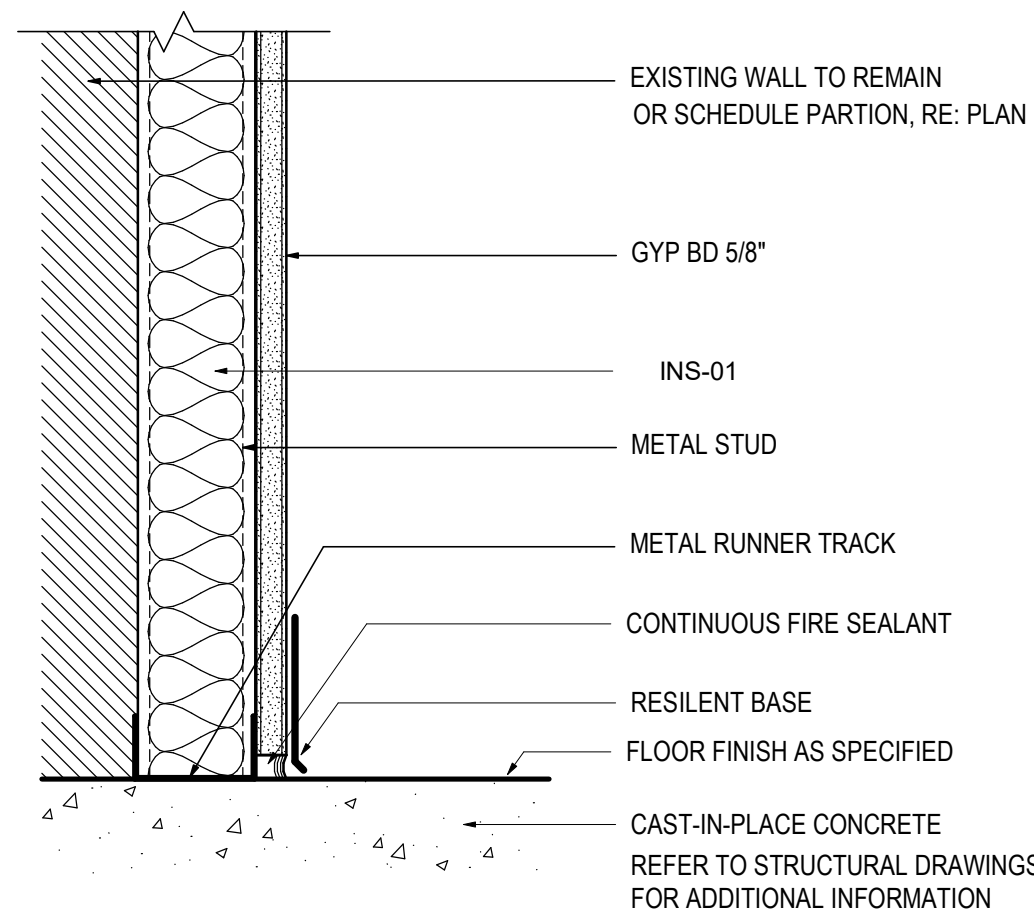


PERPENDICULAR TO DECK FLUTES

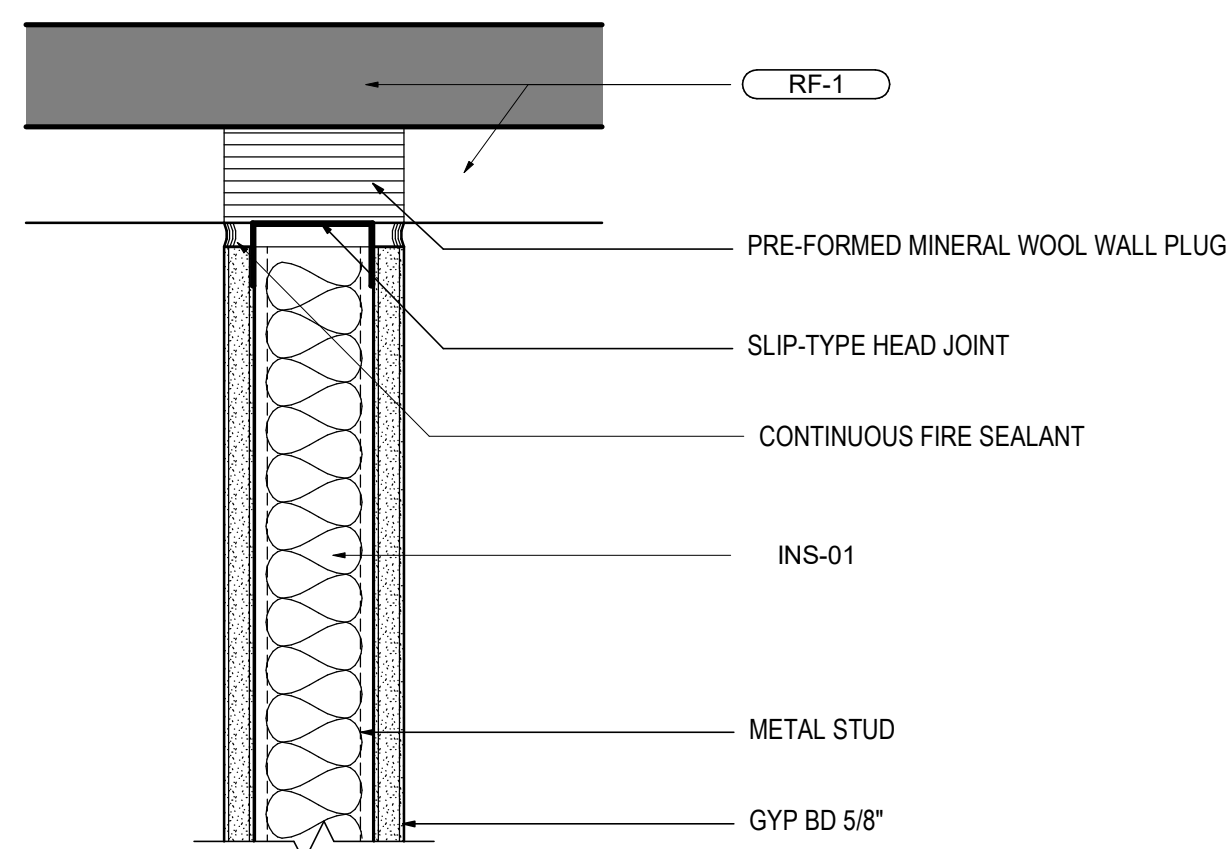


PARALLEL TO DECK FLUTES

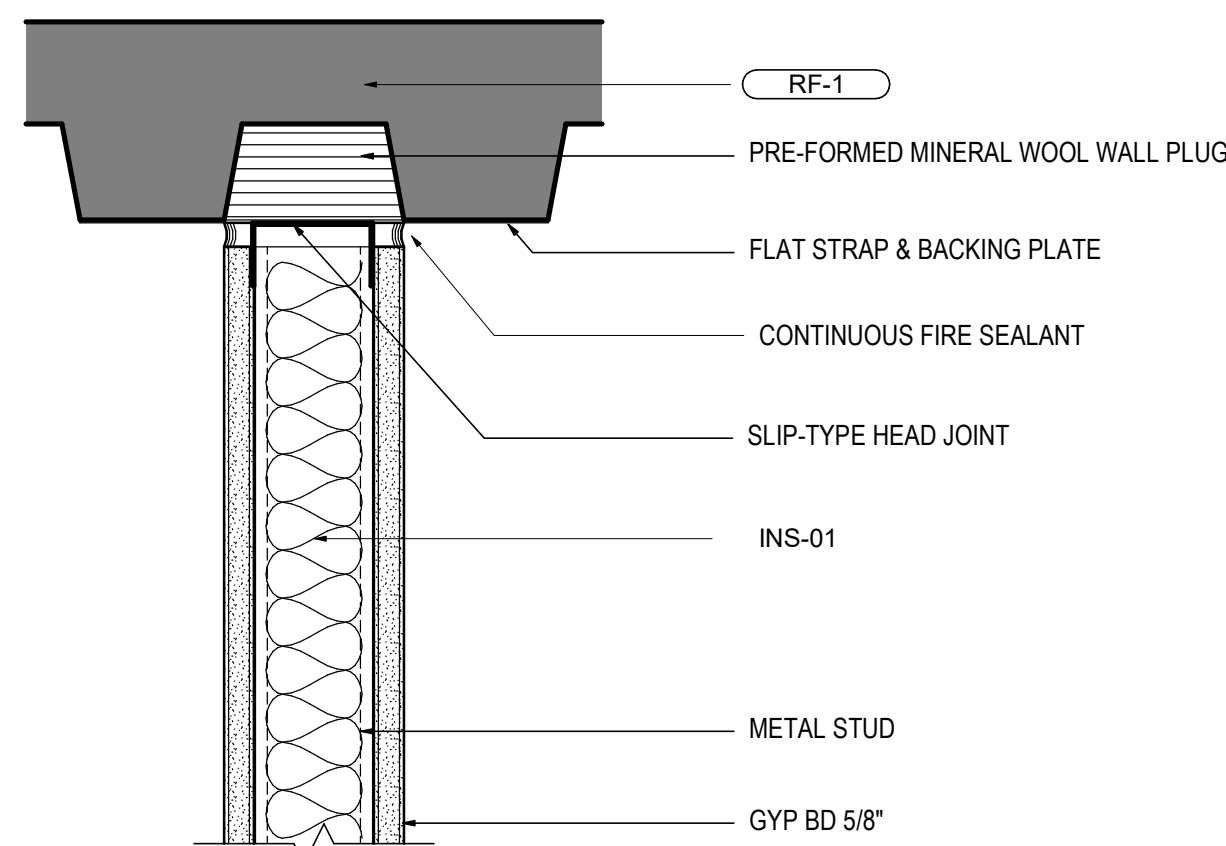
D T01



D B01

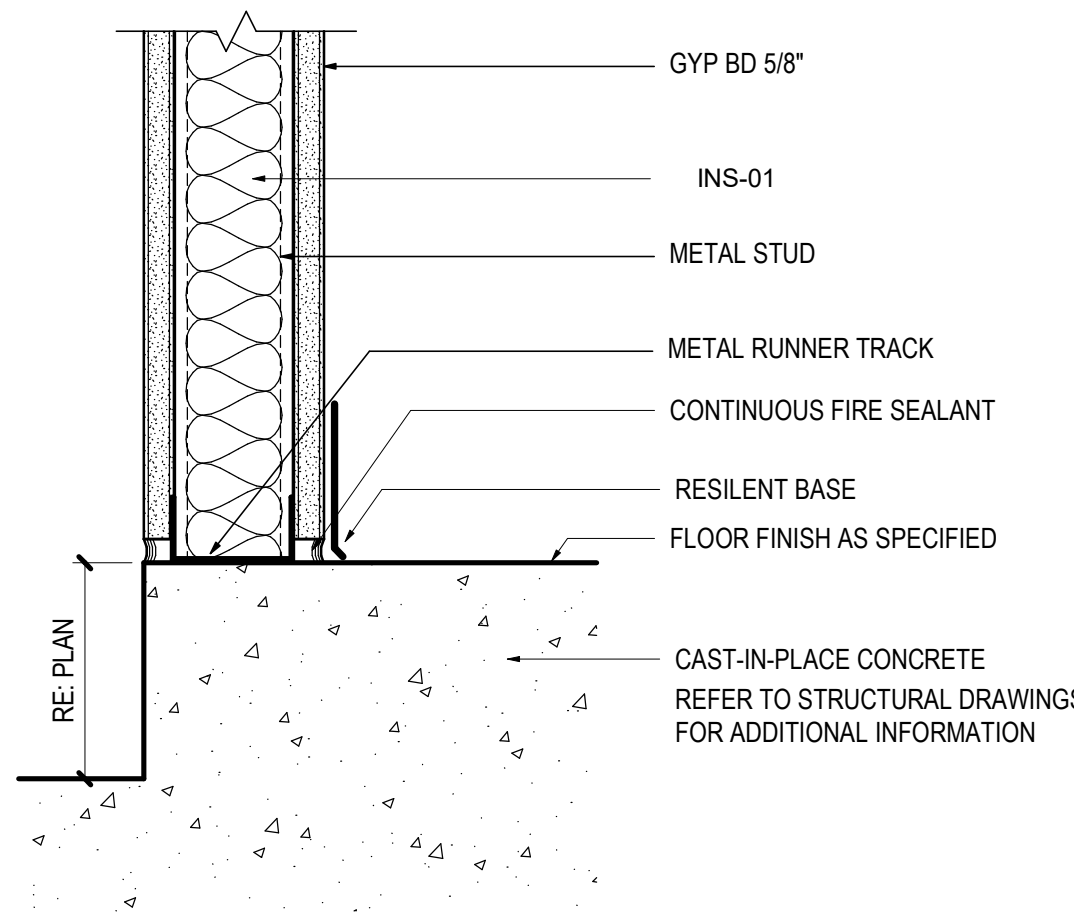


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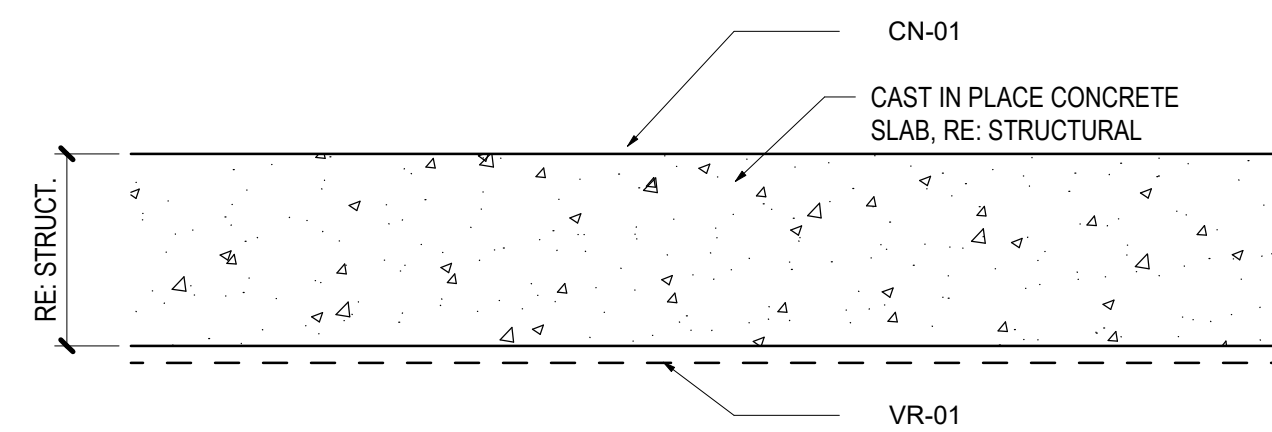


PARALLEL TO DECK FLUTES

A T01

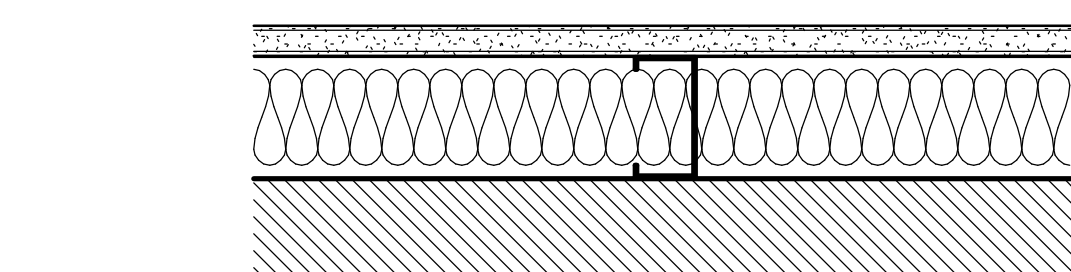


A B03



01 FLOOR ASSEMBLY - FL-1

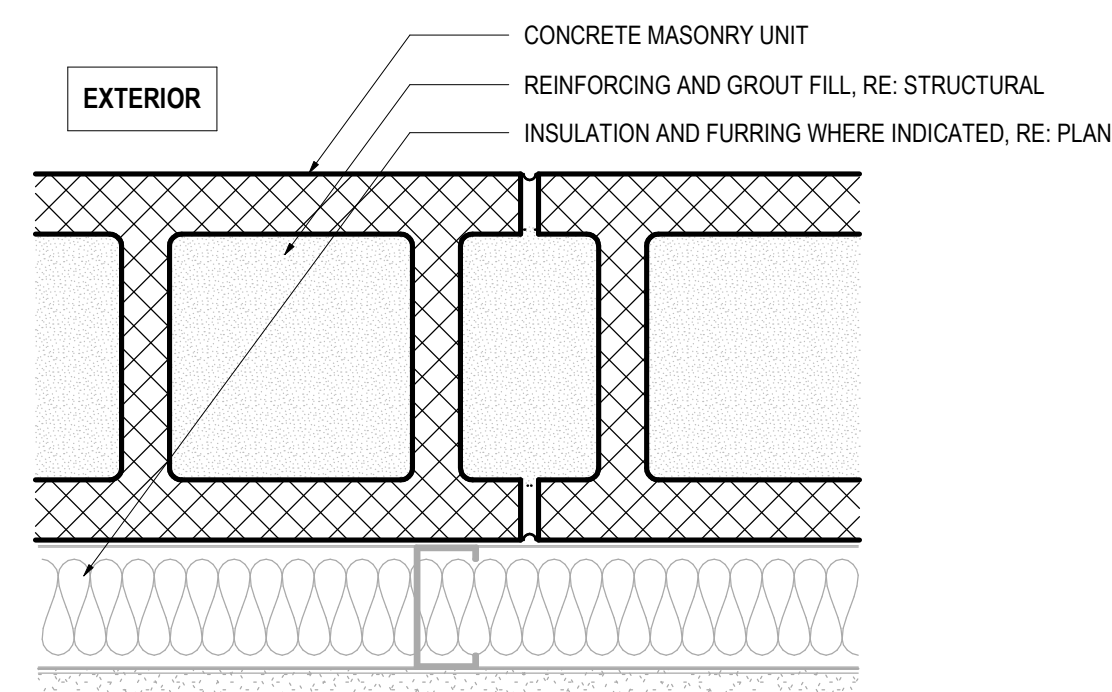
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PARTITION TYPE MARK	FRAMING			DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
	THK (IN)	DEPTH	SPACING	TOP	BOT					
D3A	30 MILS	3 5/8"	16" O.C.	D T01	D B01	INS-01, 3.5"		N/A	N/A	

02 D SERIES PARTITION TYPES

SCALE: 3" = 1'-0"



PARTITION TYPE MARK	CMU THK (IN)	DETAILS		FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		TOP	BOT				
MBA	6"	M T01	M B01		IBC Table 721.1	N/A	

1 HR RATED

03 M SERIES PARTITION TYPES

SCALE: 3" = 1'-0"

PARTITION NOTES

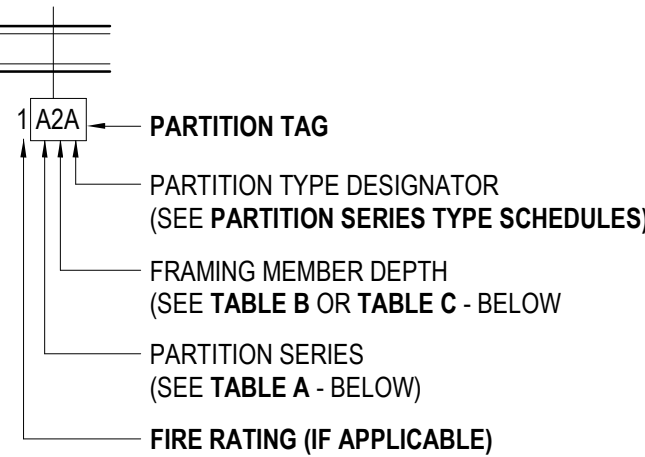


TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBERS	SHEATHING
A	1-LAYER	METAL C-STUD	1-LAYER
B	2-LAYERS	METAL C-STUD	2-LAYERS
C	1-LAYER	METAL C-STUD	2-LAYERS
D	1-LAYER	METAL C-STUD	NONE
E	2-LAYERS	METAL C-STUD	NONE
F	1-LAYER	MTL HAT CHANNEL	NONE
G	1-LAYER	NONE	NONE
H	1-LAYER	METAL C-H STUD	NONE
J	2-LAYERS	METAL C-H STUD	LINER PNL
K	1-LAYER	(2) METAL C-STUDS	1-LAYER
L	2-LAYERS	(2) METAL C-STUDS	2-LAYERS
M	NONE	CMU	NONE
N-U	RESERVED FOR FUTURE EXPANSION		
V-Z	CUSTOM	N/A	N/A

TABLE B- FRAMING DEPTH SCHEDULE

TAG NUMBER	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8" FURRING CHANNEL	N/A	N/A
1	1 5/8"	N/A	N/A
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	N/A
4	4"	4"	3 1/2"
6	6"	6"	5 1/2"
8	8"	N/A	7 1/4"
10	10"	N/A	9 1/4"

TABLE C- MASONRY WIDTH SCHEDULE

TAG NUMBER	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

STEEL SHEET THICKNESS FOR STUDS AND RUNNERS

GAUGE#	MIN. STEEL BASE METAL THICKNESS (UNCOATED)		
	INCH	MILS	MM
12	0.1017	97	X
14	0.0713	68	X
16	0.0566	54	1.34
18	0.0451	43	1.09
20	0.0312	30	0.84
22	0.0270	27	0.68
25	0.0179	18	0.45

*GAUGE 16, 18 USED FOR STRUCTURAL FRAMING; 20, 22, AND 25 USED FOR NON-STRUCTURAL FRAMING

GENERAL NOTES

GN-01. PARTITION TYPES ARE NOT SEQUENTIAL.

GN-02. ALL PARTITION SHEATHING TO BE 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED.

GN-03. ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.

GN-04. PROVIDE NON-COMBUSTIBLE BLOCKING IN PARTITIONS FOR ITEMS HANGING AS INDICATED. SEE CONSTRUCTION PLAN(S) AND/OR INTERIOR ELEVATIONS FOR LOCATIONS.

GN-05. FOR INTERIOR FRAMING LIMITING HEIGHTS REFER TO SSMA TABLES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS.

GN-06. CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF SLAB INFORMATION.

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Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

PARTITION SCHEDULES

Scale

3" = 1'-0"

1B-G5.001

HARDWARE SETS

GENERAL DESCRIPTION : REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS

SET #30 - Goldwalk Boiler Room

Door: GW100A				
6	Hinges	CB179 4 1/2 X 4 1/2 NRP	652	ST
1	Set Auto Flush Bolts	3810 X 3810	626	TR
1	Dust Proof Strike	3911	630	TR
1	Lockset	M9080D L110A RB-Kwy	626	DM
1	Coordinator	3093	626	TR
1	Closer (inactive)	HD7016 SPA	689	BE
*1	Hold Open Closer	8916 EMF/PT	689	DM
2	Kick Plates	K0050 10" x 2" LDW B4E CS	630	TR
2	Floor Stops	W1211	630	TR
1	Gasket	5050B Head & Jambs	NA	NA
1	Sweep	A605 A SMS-TEKS	NA	NA
*1	Wire Harness	WH-6E	ST	ST
*1	Wire Harness	WH-192	ST	ST
*1	Power Supply	DKPS-2A	RC	RC

Astragal on inactive leaf by door manufacturer. Hold open must release on alarm. Mount stops not to pose a tripping hazard.

SET #31 - Goldwalk Boiler Room

Doors: GW100B, GW100C, GW100D, GW100E				
8	Hinges	CB179 4 1/2 X 4 1/2 NRP	652	ST
1	Set Auto Flush Bolts	3810 X 3810	626	TR
1	Dust Proof Strike	3911	630	TR
1	Lockset	M9080D L110A RB-Kwy	626	DM
1	Coordinator	3093	626	TR
*2	Hold Open Closers	8916 EMF/PT	689	DM
2	Kick Plates	K0050 10" x 2" LDW B4E CS	630	TR
2	Floor Stops	W1211	630	TR
1	Gasket	5050B Head & Jambs	NA	NA
2	Sweeps	A605 A SMS-TEKS	NA	NA
*2	Wire Harnesses	WH-6E	ST	ST
*2	Wire Harnesses	WH-192	ST	ST
*1	Power Supply	DKPS-2A	RC	RC

Astragal on inactive leaf by door manufacturer. Hold open must release on alarm. Mount stops not to pose a tripping hazard.

SET #32 - Goldwalk Storage

Door: GW101				
8	Hinges	CB179 4 1/2 X 4 1/2	652	ST
1	Set Auto Flush Bolts	3810 X 3810	626	TR
1	Dust Proof Strike	3911	630	TR
1	Lockset	M9080D L110A RB-Kwy	622	DM
1	Coordinator	3094 Series	626	TR
2	Closers	HD7016 JT	689	BE
2	Kick Plates	K0050 10" x 2" LDW B4E CS	630	TR
2	Floor Stops	W1211	630	TR
1	Gasket	5050B Head & Jambs	NA	NA
2	Sweeps	A605 A SMS-TEKS	NA	NA

Astragal on inactive leaf by door manufacturer. Mount stops not to pose a tripping hazard.

SET #33A - Goldwalk Gate

Gate: GW101A				
1	Weldable Lock Box	KBXMR Series	600	KD
1	Lockset	M9080D L110A RB-Kwy	626	DM

Balance by the gate manufacturer.

SET #34 - Goldwalk Mechanical/Electrical

Doors: GW104, GW105, GW107				
3	Hinges	CB179 4 1/2 X 4 1/2 NRP	652	ST
1	Lockset	M9080D L110A RB-Kwy	626	DM
1	Kick Plate	K0050 10" x 2" LDW B4E CS	630	TR
1	Floor Stop	W1211	630	TR
1	Gasket	5050B Head & Jambs	NA	NA

SET #34B - Goldwalk Mechanical/Electrical

Door: GW102				
3	Hinges	CB179 4 1/2 X 4 1/2 NRP	652	ST
1	Lockset	M9080D L110A RB-Kwy	626	DM
1	Closer	HD7016 SPA	689	BE
1	Kick Plate	K0050 10" x 2" LDW B4E CS	630	TR
1	Floor Stop	W1211	630	TR
1	Gasket	5050B Head & Jambs	NA	NA
1	Sweep	A605 A SMS-TEKS	NA	NA

SET #35 - Goldwalk Mechanical Exterior

Door: GW103				
3	Hinges	CB199 4 1/2 X 4 1/2 NRP	BLK	ST
1	Lockset	M9080D L110A RB-Kwy	622	DM
1	Closer/Stop	HD7016 SDS	683	BE
1	Kick Plate	K0050 10" x 2" LDW B4E CS	630	TR
1	Gasketing	700 NGBL SMS-TEKS	NA	NA
1	Sweep	200 NGBL SMS-TEKS	NA	NA
1	Threshold	896 NDKB MS/EA	NA	NA

Do not out weatherstrip - template hardware accordingly. Verify threshold application.

SET #36 - Goldwalk Vestibule

Door: GW106				
3	Hinges	CB179 4 1/2 X 4 1/2 NRP	652	ST
1	Lockset	M9050D L110A RB-Kwy	626	DM
1	Closer	HD7016 SPA	689	BE
1	Kick Plate	K0050 10" x 2" LDW B4E CS	630	TR
1	Wall Stop	1270WV	630	TR
1	Gasket	5050B Head & Jambs	NA	NA

SET #37 - Goldwalk - Retail - Card Access - Automatic

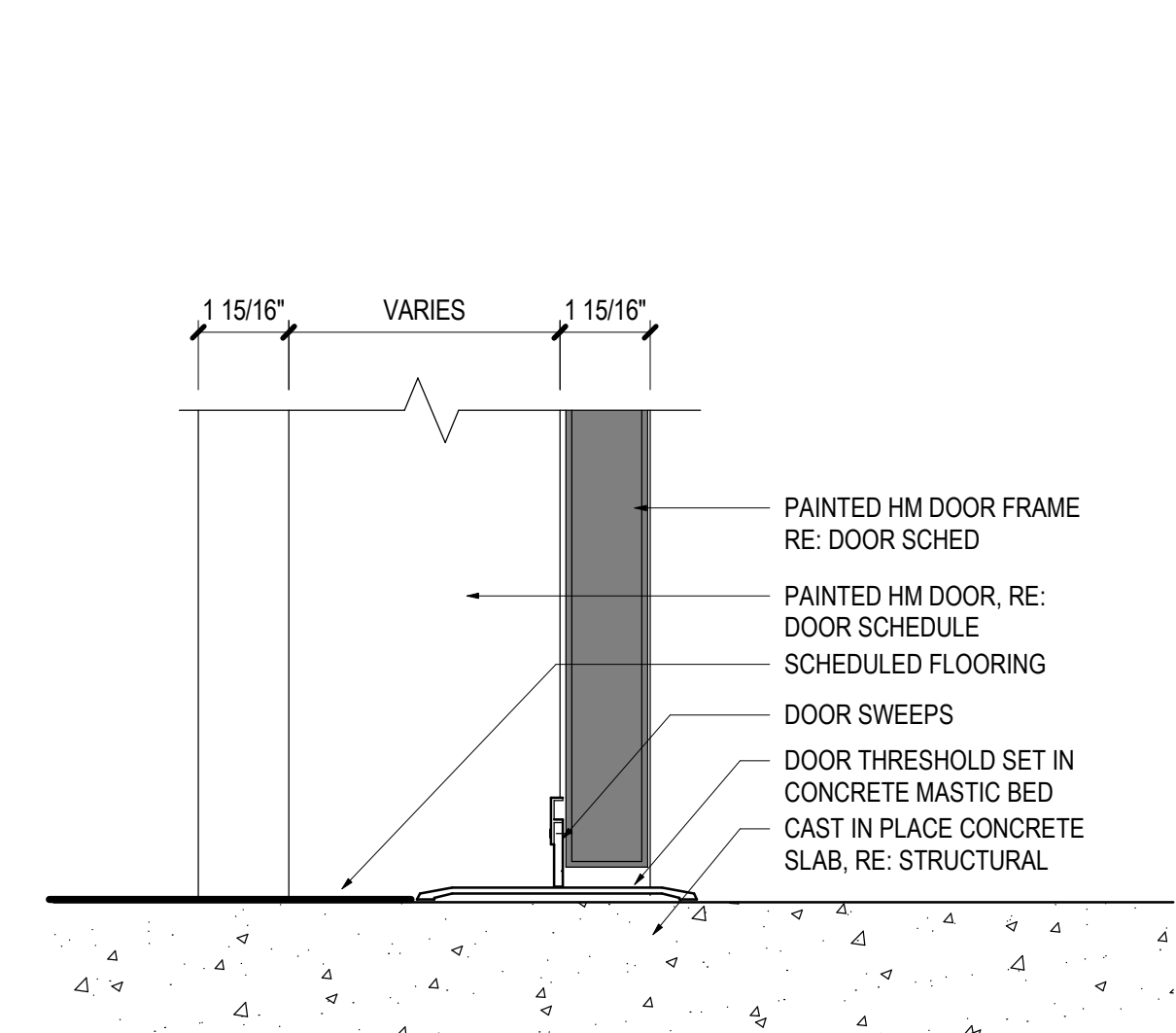
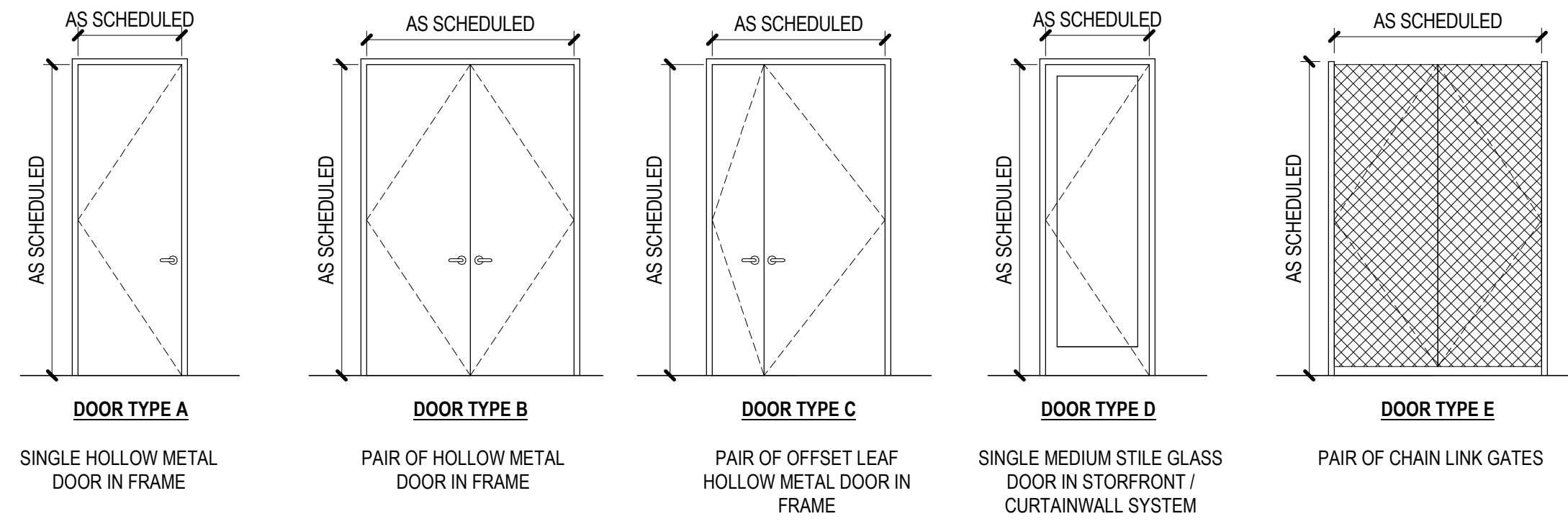
Door: GW300				
1	Continuous Hinge	661HD EPT	BLK	ST
*1	Power Transfer	EPT-12C		PR
*1	Exit Device	9700BB D MLR MS RB-Kwy	693	DM
1	Offset Pull	RM4190 48" x 14XHD	BPC	RO
*1	Operator/Switches	Specified in Section 087113		
1	Sweep	200 NGBL SMS-TEKS	NA	NA
1	Thermal Break Threshold	8426 GBL MS/EA	NA	NA
*1	Wire Harness	WH-6E	ST	ST
*1	Wire Harness	WH-12P	ST	ST
*1	Wire Harness	WH-192	ST	ST
*1	Power Supply	DKPS-2	RC	RC

Card activation momentarily releases strike, energizes exterior operator switch and allows access. Inside operator switch always active. Card reader by security access. Coordinate operation per 1.05-A-6. Gaskets by door manufacturer. Verify threshold application.

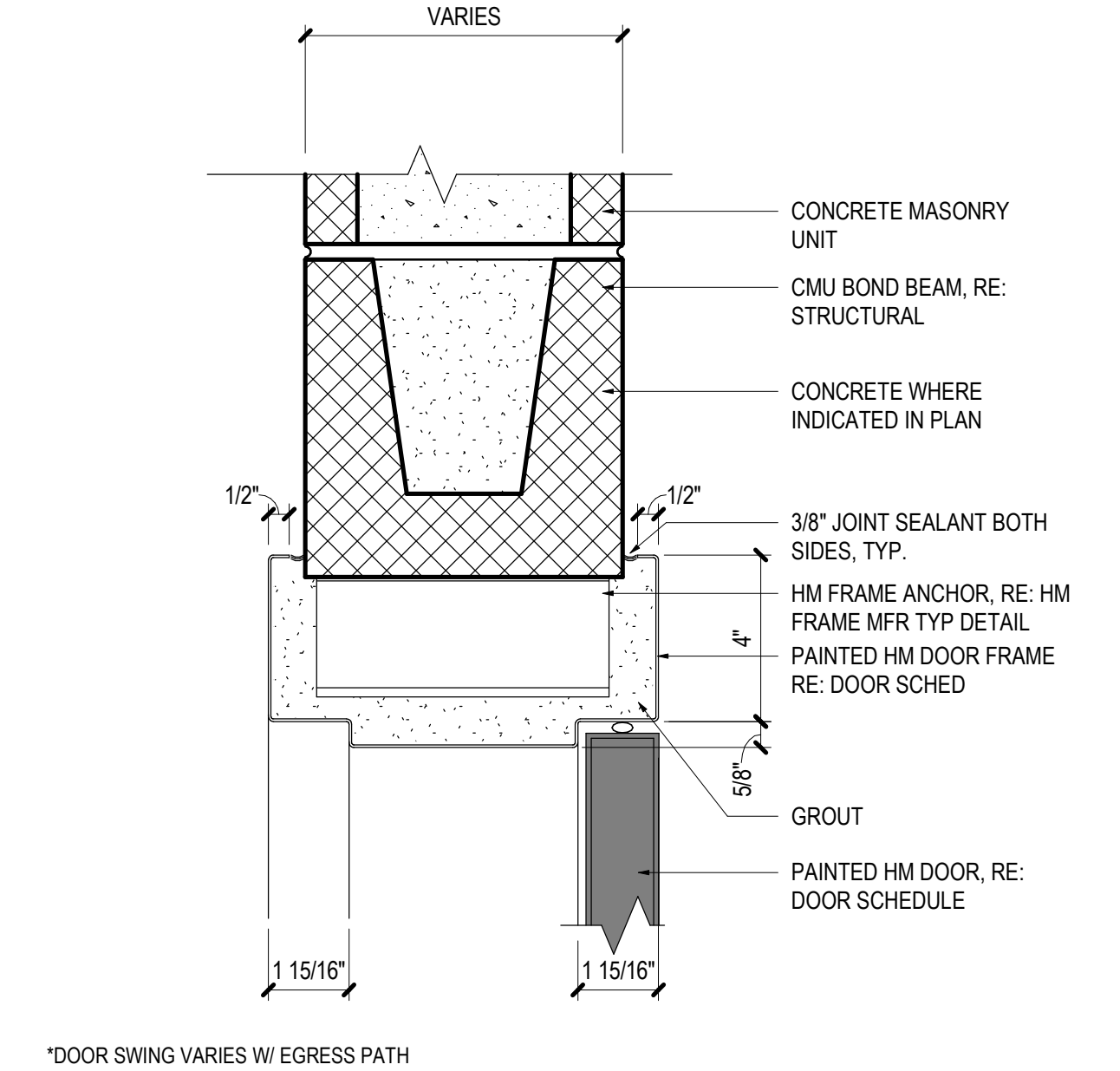
DOOR SCHEDULE

NUMBER	LOCATION	TYPE	WT			MATERIAL	FINISH	FRAME ASSEMBLY			MATERIAL	FINISH	ASSEMBLY RATING			HARDWARE SET	REMARKS
			WIDTH	HEIGHT	THICKNESS			HEAD DETAIL	JAMB DETAIL	SILL DETAIL			FIRE RATING	TEMP RISE	SMOKE LABEL		
GW100A	BOILER ROOM	C	5'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	30	
GW100B	BOILER ROOM	B	6'-0"	8'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	31	
GW100C	BOILER ROOM	B	6'-0"	8'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	31	
GW100D	BOILER ROOM	B	6'-0"	8'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	31	
GW100E	BOILER ROOM	B	6'-0"	8'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	31	
GW101	STORAGE	B	6'-0"	8'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	32	
GW101A	MECH	E	6'-0"	7'-0"	1 3/4"	STL	GA	-	-	-	STL	GA	-	-	-	33A	
GW102	ELEC	A	3'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	45 MIN	-	-	34B	
GW103	VESTIBULE	A	3'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	35	
GW104	MECH	A	3'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	34	
GW105	STAIR ACCESS	A	3'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	34	
GW106	VESTIBULE	A	3'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	36	
GW107	ESCALATOR ACCESS	A	3'-0"	7'-0"	1 3/4"	HM	PT	H-04	J-04	S-01	HM	PT	-	-	-	34	
GW300	BUILDING A	D	3'-0"	9'-0"	2"	AL / TG	MATCH SF1	04/1B-G6.001	04/1B-G6.001	S-01	AL	MATCH SF1	-	-	-	37	

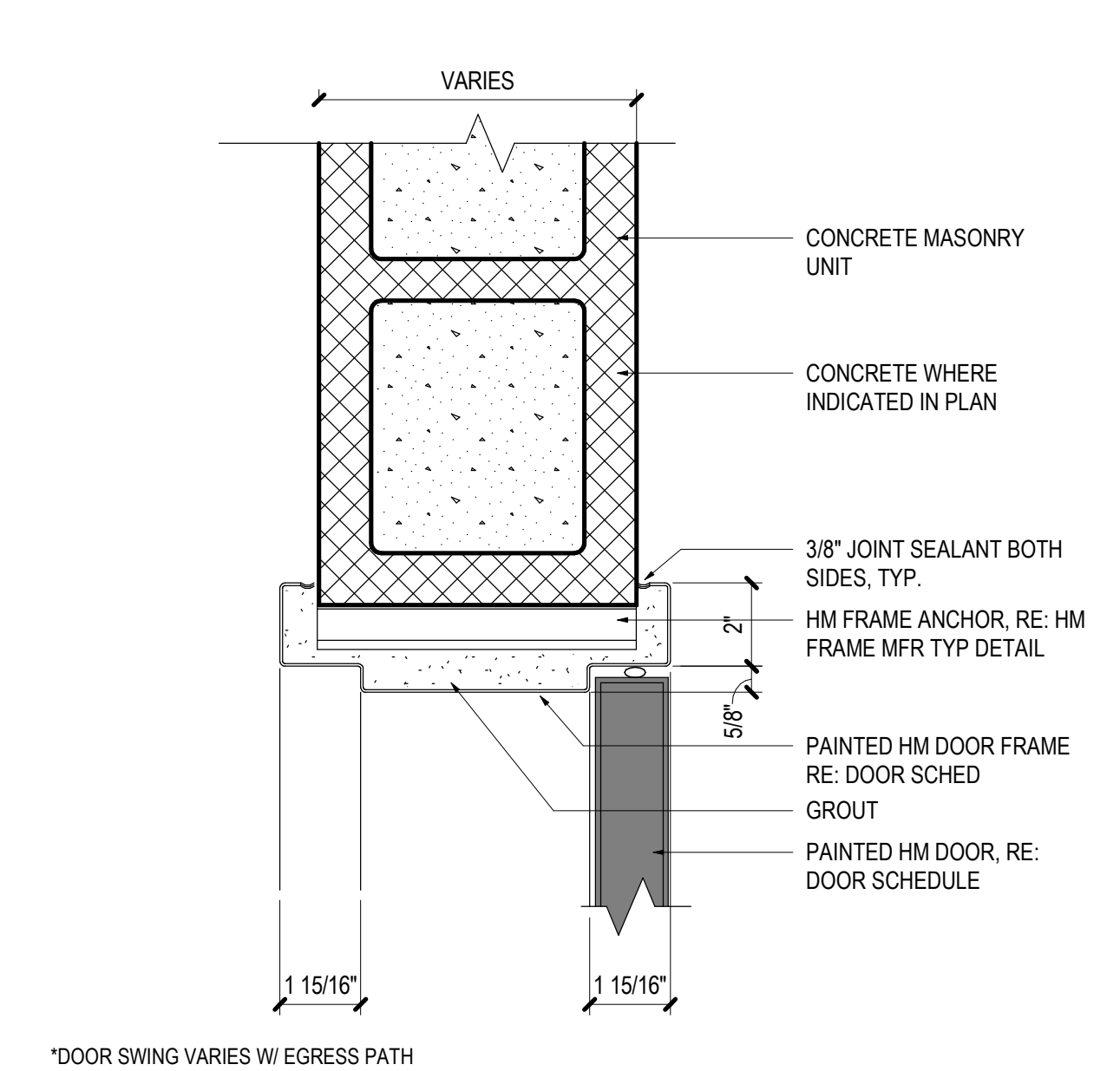
DOOR AND FRAME TYPES



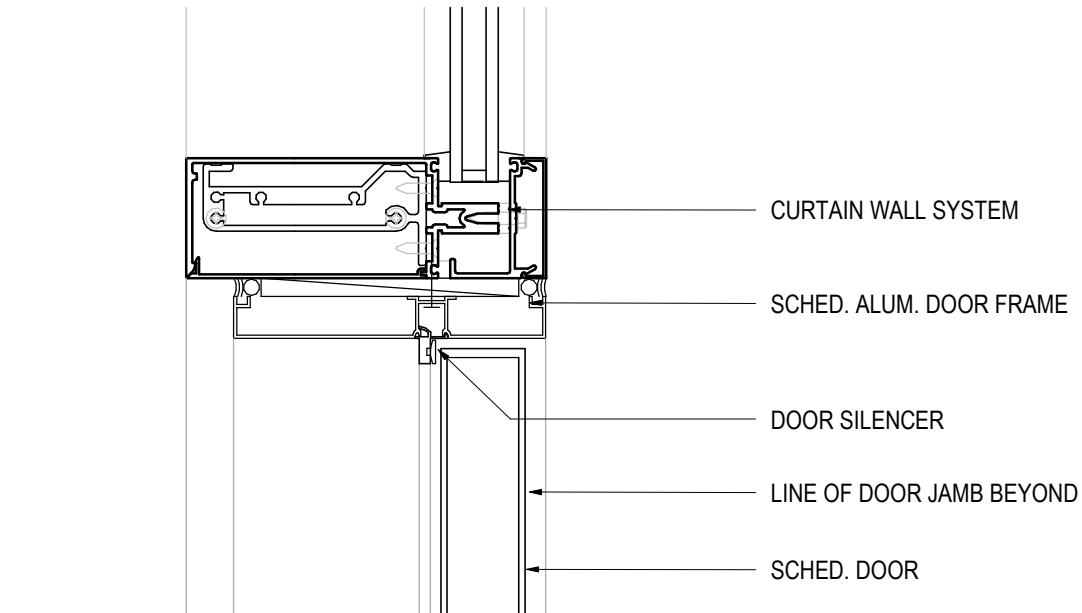
03 S-01
SCALE: 3" = 1'-0"



02 H-04
SCALE: 3" = 1'-0"



01 J-04
SCALE: 3" = 1'-0"



04 ALUM FRAME - CURTAINWALL - HEAD & JAMB
SCALE: 3" = 1'-0"

GEN. NOTES DOOR

A. G.C. TO PROVIDE COMPLETE DOOR/HARDWARE PACKAGE TO FUNCTION AS INDICATED. ALL DOORS AND HARDWARE SHALL BE BUILDING STANDARD, U.O.N. SUBMIT COMPLETE SPECS TO ARCHITECT FOR REVIEW AND APPROVAL.

B. ALL HARDWARE TO MEET ANSI 117.1 AND ADAAG 2010 AND ALL ACCESSIBILITY REQUIREMENTS. SEE REQUIRED CLEARANCES AND MOUNTING HEIGHTS SHEET.

C. CONTRACTOR TO FIELD VERIFY CONDITION, HAND, THROAT SIZE AND WORKABILITY OF ALL DOORS AND HARDWARE, REPAIR OR REPLACE AS REQUIRED.

D. HINGES AT RATED ASSEMBLIES SHALL BE BALL BEARING.

E. 90 MIN. ASSEMBLIES SHALL HAVE METAL THRESHOLDS.

F. LOCK CYLINDERS AND KEYS SHALL BE COORDINATED WITH BUILDING OWNER.

G. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

H. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" A.F.F. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE.

DOOR ABBREV.

AL = ALUMINUM
BS = BLDG STANDARD
CH = CHAINLINK
CL = CLEAR
(E) = EXISTING
FH = FULL HEIGHT
FR = FIRE RATED
GA = GALVANIZED
GL = GLASS
HC = HOLLOW CORE
HM = HOLLOW METAL
NR = NON FIRE RATED
PG = PAINT GRADE
PT = PAINT
SC = SOLID CORE
STL = STEEL
ST = STAIN
TG = TEMPERED GLASS
WD = WOOD

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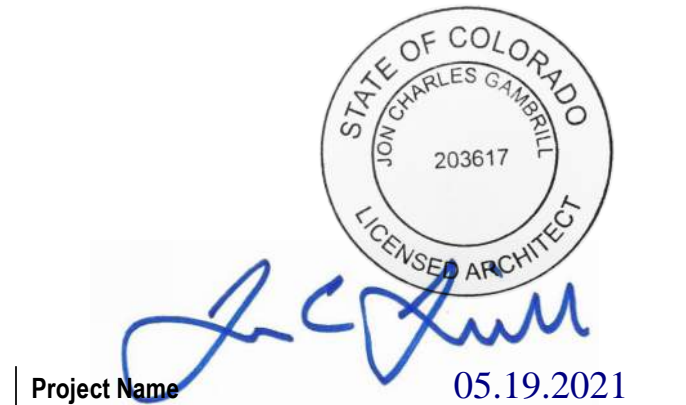
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Date	Description
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2021.05.19 BP3: GOLDWALK - ISSUE FOR RECORD AND PERMIT

RCRBD
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06/29/2021

Seal / Signature



Project Name 05.19.2021

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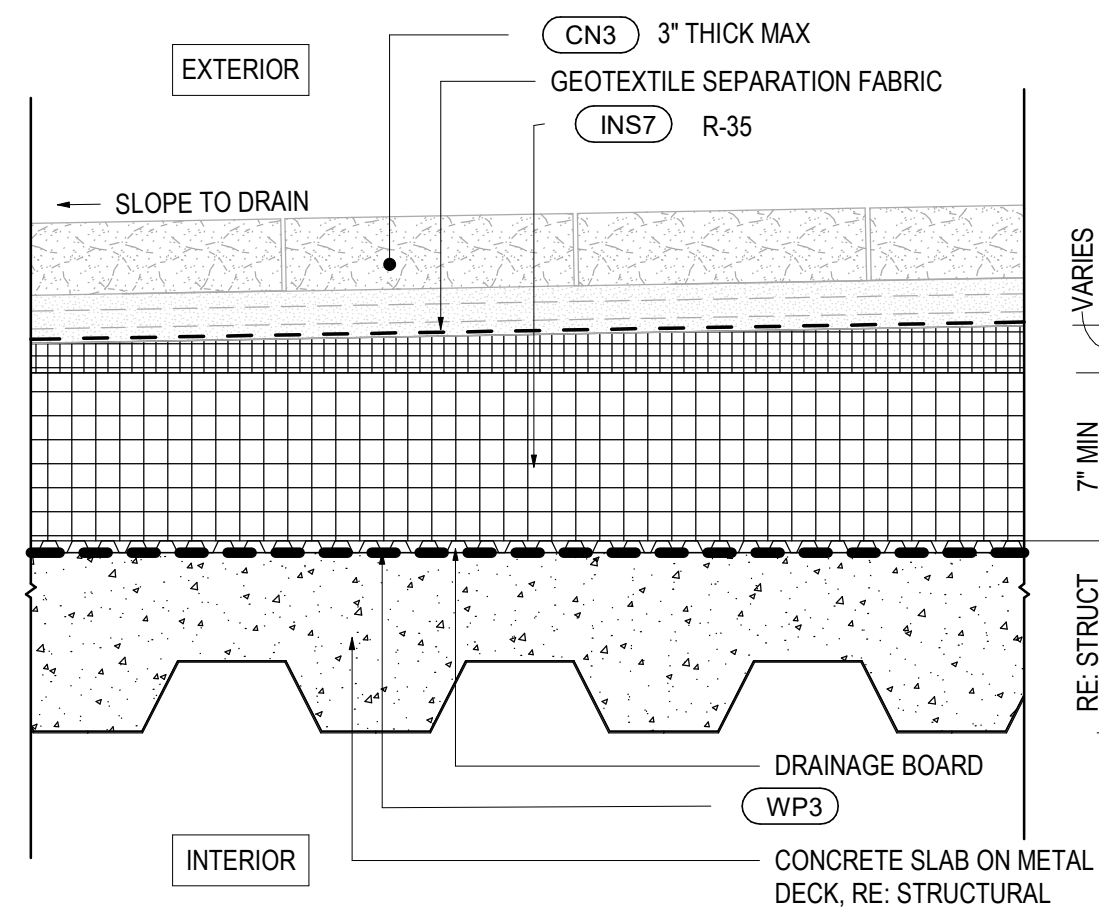
Description

DOOR SCHEDULE AND DETAILS

Scale

As indicated

1B-G6.001



AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R VALUE = 35.85
ASSEMBLY U-FACTOR= 0.026

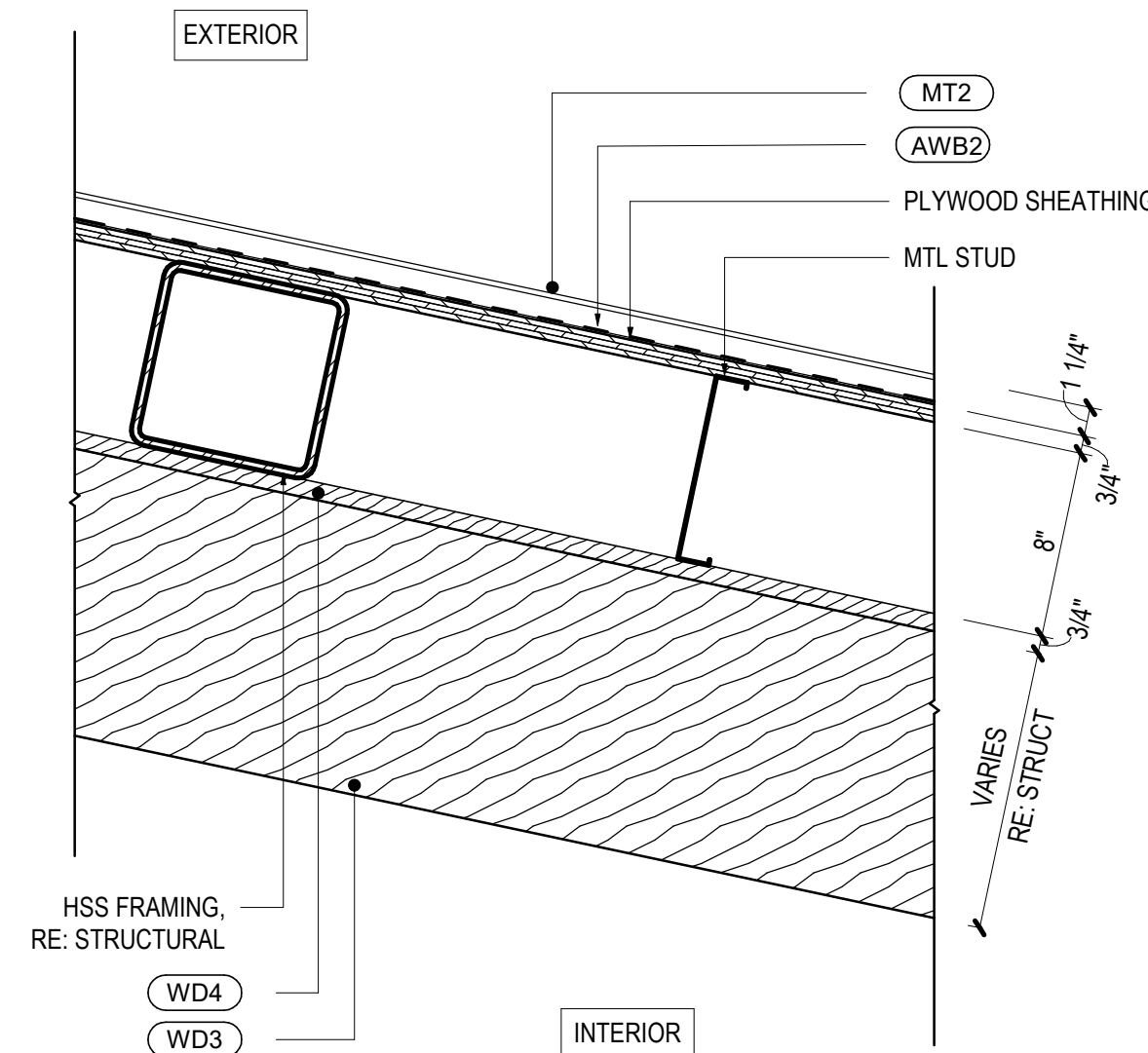
17 NOT USED

13 RF2-CN3 - ROOF AT PLAZA & GOLD WALK
SCALE: 1 1/2" = 1'-0"

09 NOT USED

05 NOT USED

01 NOT USED



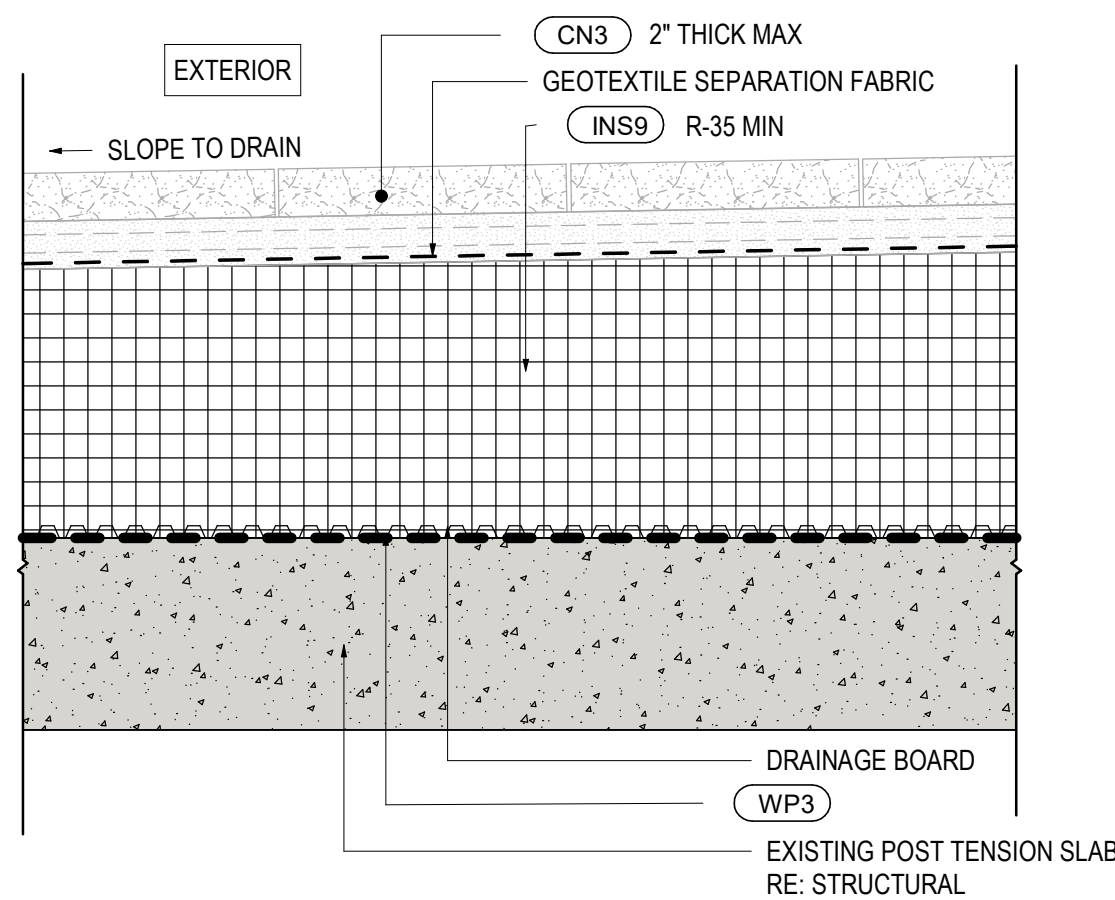
18 NOT USED

14 NOT USED

10 NOT USED

06 RF4-MT2 - ESCALATOR ROOF
SCALE: 1 1/2" = 1'-0"

02 NOT USED



AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R VALUE = 35.85
ASSEMBLY U-FACTOR= 0.026

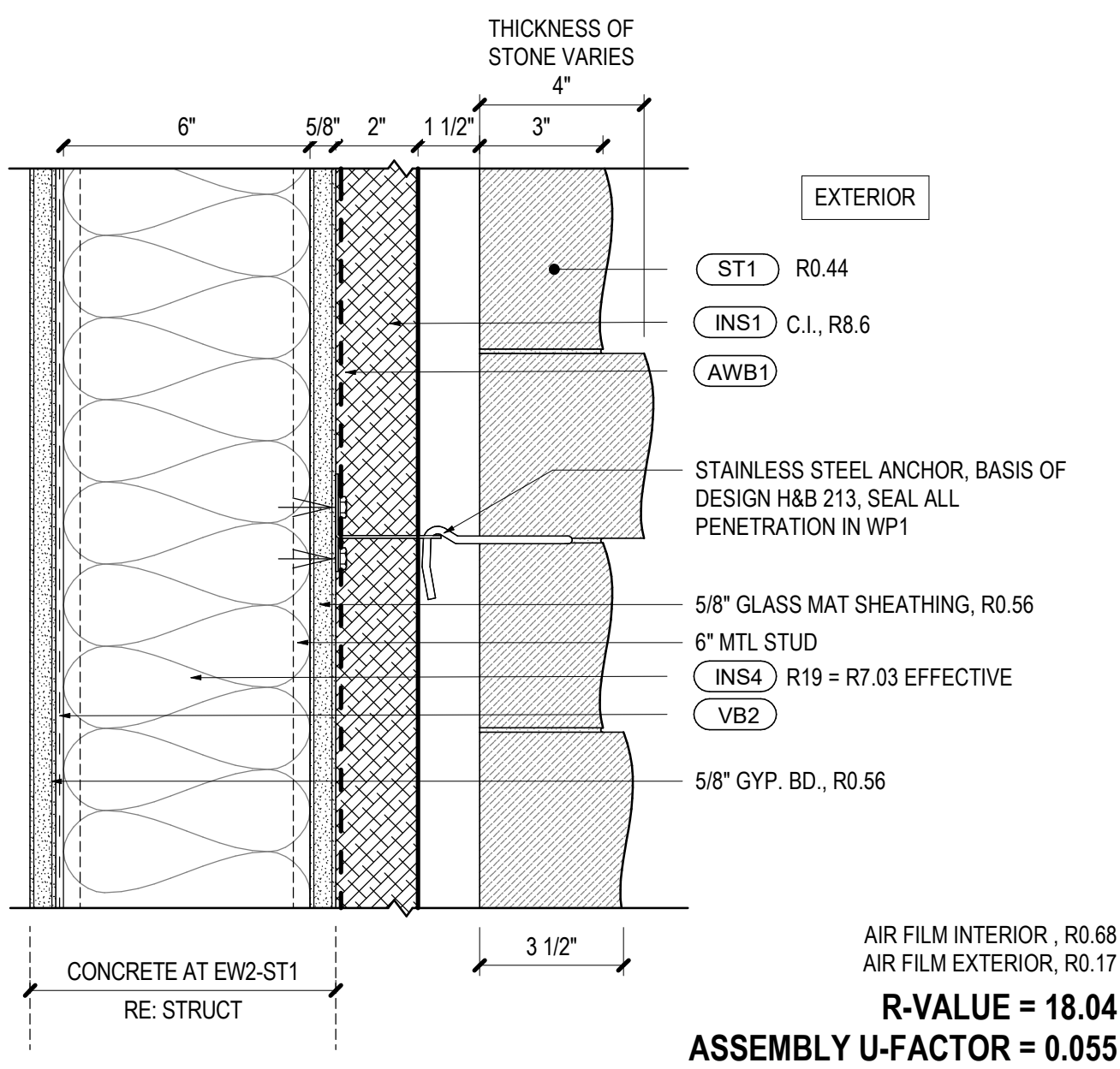
19 RF6-CN3 - ROOF AT GOLD WALK
SCALE: 1 1/2" = 1'-0"

15 NOT USED

11 NOT USED

07 NOT USED

03 EW1-ST1 STONE ON FRAMING
SCALE: 3" = 1'-0"



Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

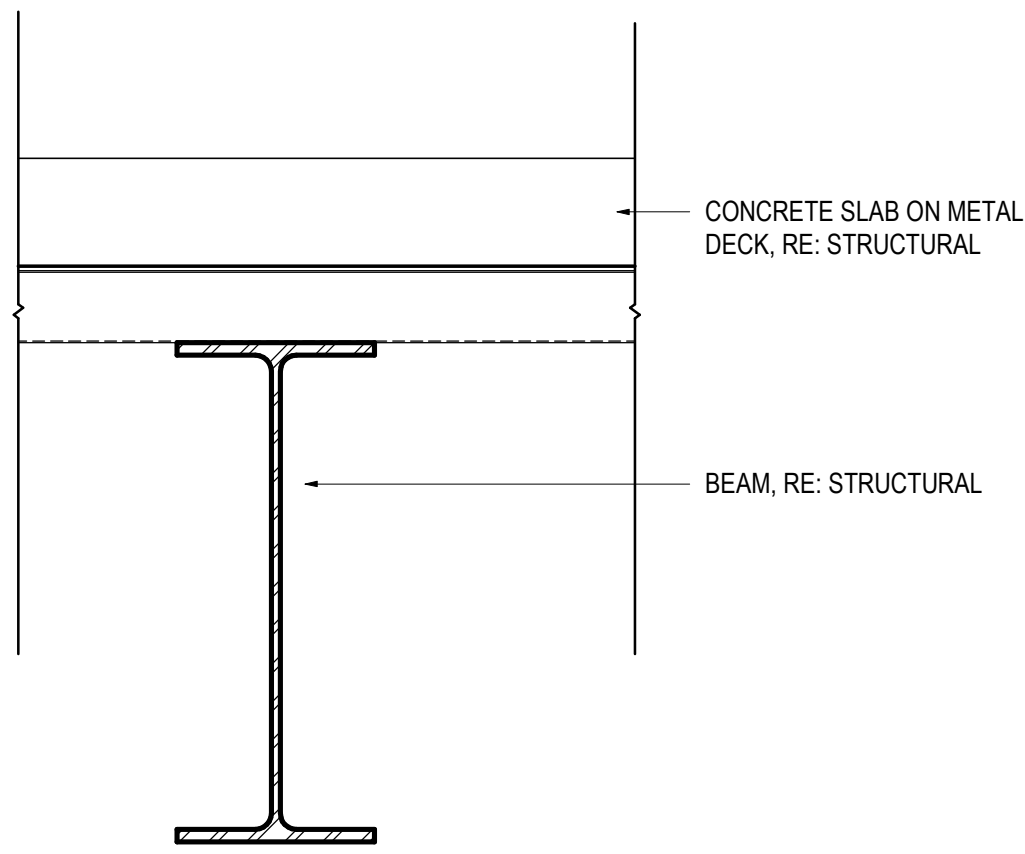
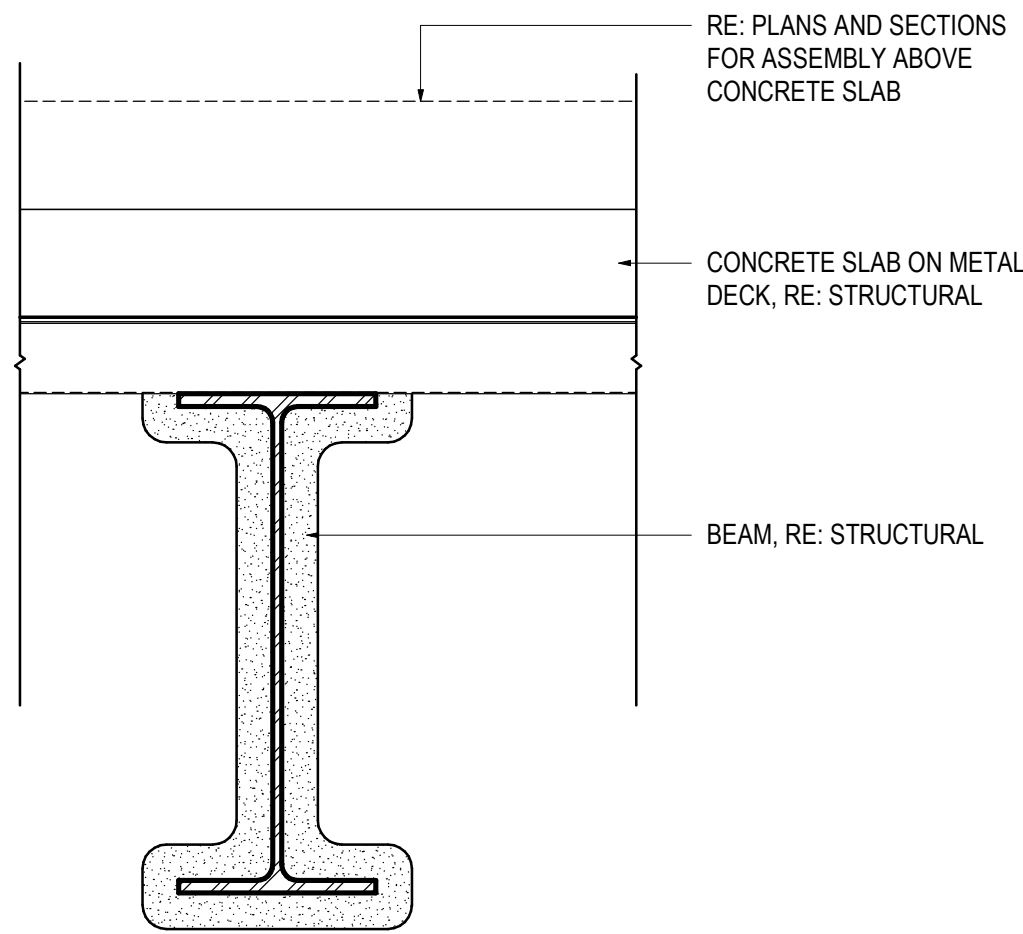
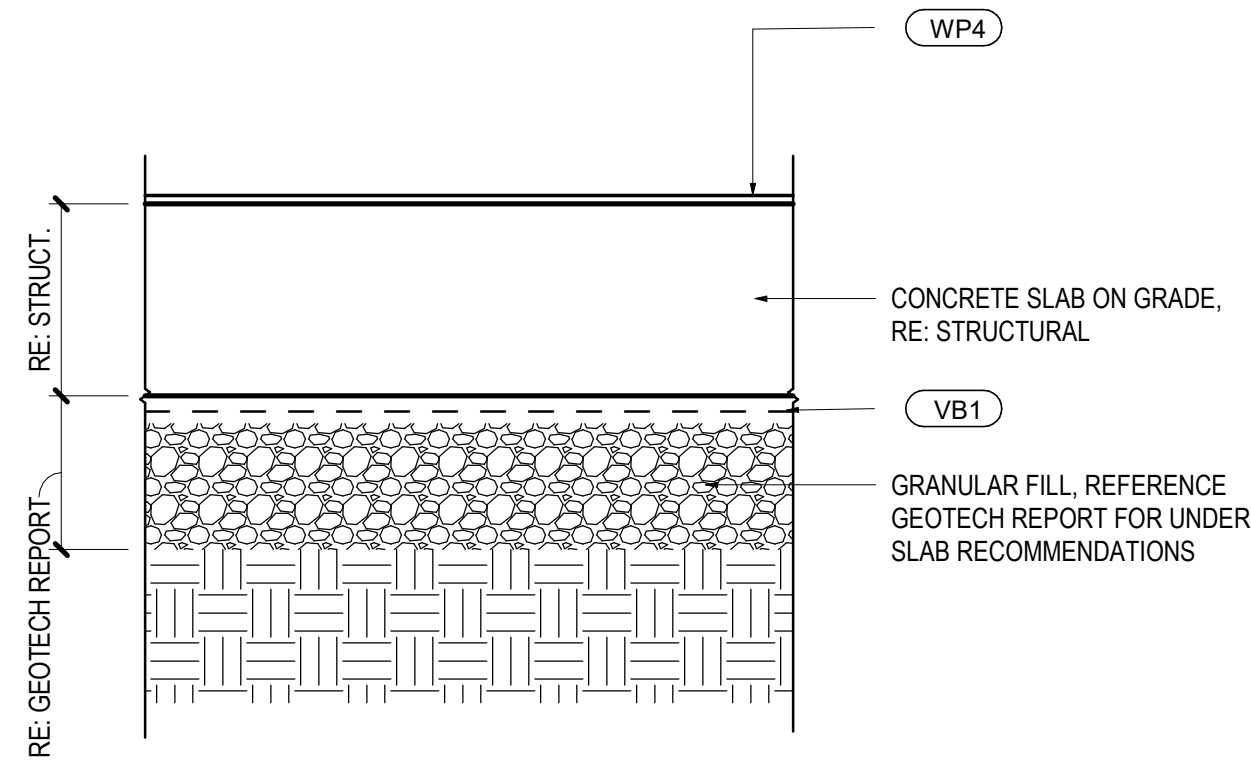
Description

EXTERIOR MATERIALS SCHEDULE

Scale

As indicated

1B-G8.002



UL: D902 NOTE: 2HR RATED AT GOLD WALK

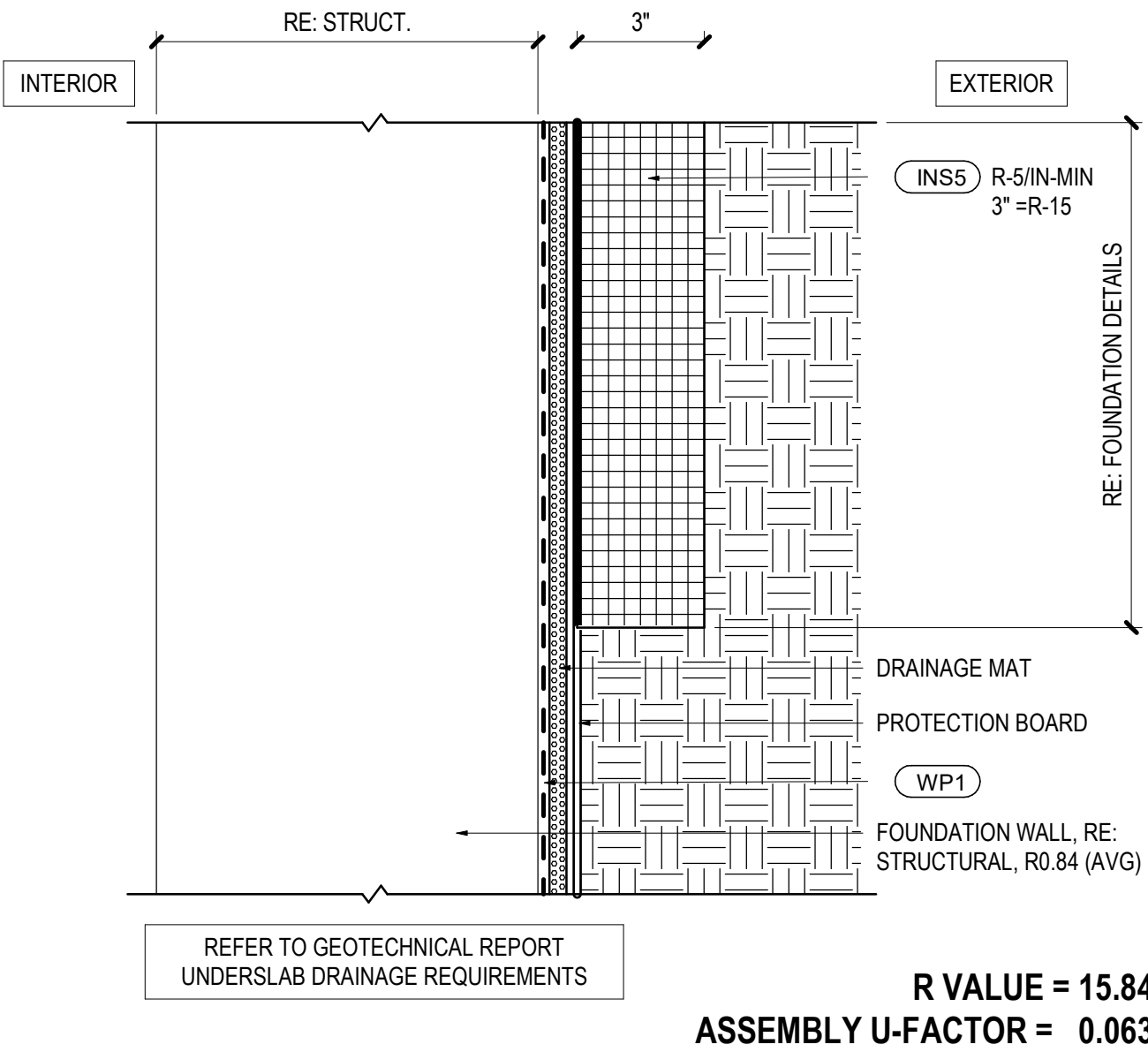
17 NOT USED

13 FL2-CN2 - SLAB ON GRADE
SCALE: 1 1/2" = 1'-0"

09 NOT USED

05 FL1-CN2 - CONCRETE ON MTL DECK W/WP3
SCALE: 1 1/2" = 1'-0"

01 FL1-CN1 - CONCRETE ON METAL DECK
SCALE: 1 1/2" = 1'-0"



10 NOT USED

06 NOT USED

02 FN1 - FOUNDATION WALL
SCALE: 3" = 1'-0"

Steamboat

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

EXTERIOR MATERIALS SCHEDULE

Scale

As indicated

1B-G8.003