

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



ALTERRA east west partners  
MOUNTAIN COMPANY

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

Gensler

1225 17th Street  
Suite 150  
Denver, CO 80202  
United States  
Tel 303.595.8585  
Fax 303.625.6623



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

DESIGNWORKSHOP

1390 Lawrence Street  
Suite 100  
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 BID AND 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



DRAWING INDEX (CONTINUED)

Sheet Number	Sheet Name	Latest	Description	Date
05 - ARCHITECTURE				
AS1.000	ARCHITECTURAL SITE PLAN - EXISTING CONDITIONS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1-A1.100	COMPOSITE PLAN - LOWER LEVEL B1 (PHASE 1)	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1-A1.101	COMPOSITE PLAN - LEVEL 01 (PHASE 1)	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1-A1.102	COMPOSITE PLAN - LEVEL 02 (PHASE 1)	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1-A1.103	COMPOSITE PLAN - LEVEL 03 (PHASE 1)	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1-A1.104	COMPOSITE PLAN - LEVEL 04 (PHASE 1)	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1-A1.105	COMPOSITE PLAN - LEVEL 05 (PHASE 1)	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A1.101	GOLD WALK - CONSTRUCTION PLAN - LEVEL 01	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A1.102	GOLD WALK - CONSTRUCTION PLAN - LEVEL 02	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A1.103	GOLD WALK - CONSTRUCTION PLAN - LEVEL 03	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A1.104	GOLD WALK - CONSTRUCTION PLAN - ROOF LEVEL	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A1.201	GOLD WALK - REFLECTED CEILING PLANS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A2.000	GOLD WALK - BUILDING ELEVATIONS - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A2.001	GOLD WALK - BUILDING ELEVATIONS - GOLD WALK & PLAZA	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A3.000	GOLD WALK - BUILDING SECTIONS - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A3.001	GOLD WALK - BUILDING SECTIONS - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A3.002	GOLD WALK - BUILDING SECTIONS - GOLD WALK	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A4.000	GOLD WALK - WALL SECTIONS - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A4.001	GOLD WALK - WALL SECTIONS - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A4.002	GOLD WALK - WALL SECTIONS - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A4.010	GOLD WALK - AXONOMETRICS & RENDERINGS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A5.000	GOLD WALK - ENLARGED PLAN - STAIR & ESCALATOR	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A5.001	GOLD WALK - ENLARGED PLANS & ELEVATIONS - GOLDWALK	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A6.000	GOLD WALK - STAIR & ESCALATOR DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A6.001	GOLD WALK - CANOPY DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A6.002	GOLD WALK - RAIL DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A6.003	GOLD WALK - DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-A6.004	GOLD WALK - STONE DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
05 - ARCHITECTURE: 28				
08 - MECHANICAL				
1B-M0.000	GOLD WALK - MECHANICAL LEGEND			
1B-M0.001	GOLD WALK - MECHANICAL GENERAL NOTES			
1B-M1.201	GOLD WALK - MECHANICAL PLAN - LEVEL 01			
1B-M1.203	GOLD WALK - MECHANICAL PLAN - LEVEL 03			
1B-M4.000	GOLD WALK - MECHANICAL ENLARGED PLANS			
1B-M5.001	GOLD WALK - MECHANICAL SECTIONS			
1B-M7.001	GOLD WALK - MECHANICAL CONTROLS			
1B-M7.002	GOLD WALK - MECHANICAL CONTROLS			
1B-M7.003	GOLD WALK - MECHANICAL CONTROLS			
1B-M7.004	GOLD WALK - MECHANICAL CONTROLS			
1B-M8.000	GOLD WALK - MECHANICAL DETAILS			
1B-M8.001	GOLD WALK - MECHANICAL DETAILS			
1B-MEP0.000	GOLD WALK - MECHANICAL SCHEDULES			
1B-MEP0.001	GOLD WALK - MECHANICAL SCHEDULES			
08 - MECHANICAL: 14				
09 - PLUMBING				
1B-P0.000	GOLD WALK - PLUMBING LEGEND			
1B-P0.001	GOLD WALK - PLUMBING SCHEDULES			
1B-P1.201	GOLD WALK - PLUMBING PLAN - LEVEL 01	3	GOLD WALK REVISION	Date 11
1B-P1.203	GOLD WALK - PLUMBING PLAN - LEVEL 03			
1B-P8.000	GOLD WALK - PLUMBING DETAILS			
09 - PLUMBING: 5				
10 - ELECTRICAL				
1B-E0.000	GOLD WALK - ELECTRICAL LEGEND			
1B-E0.001	GOLD WALK - ELECTRICAL ONE-LINES AND LOAD SUMMARIES			
1B-E0.002	ELECTRICAL EQUIPMENT CONNECTION AND LIGHT FIXTURE SCHEDULE			
1B-E0.003	GOLD WALK - ELECTRICAL PANEL SCHEDULES			
1B-E1.000	GOLD WALK - ELECTRICAL LIGHTING SITE PLAN			
1B-E1.201	GOLD WALK - ELECTRICAL PLAN - LEVEL 01			
1B-E1.203	GOLD WALK - ELECTRICAL PLAN - LEVEL 03			
1B-E2.201	GOLD WALK - LIGHTING PLAN - LEVEL 01			
1B-E4.000	GOLD WALK - ELECTRICAL ENLARGED PLANS AND SECTIONS			
1B-E8.000	GOLD WALK - ELECTRICAL DETAILS			
1B-E8.001	GOLD WALK - ELECTRICAL DETAILS			
1B-E8.002	GOLD WALK - ELECTRICAL DETAILS			
10 - ELECTRICAL: 12				
16 - DATA / TELECOM				
1B-T0.000	GOLD WALK - TECHNOLOGY LEGEND			
1B-T0.001	GOLD WALK - TECHNOLOGY GENERAL NOTES & ABBREVIATIONS			
1B-T1.201	GOLD WALK - TECHNOLOGY PLAN - LEVEL 01			
1B-T1.203	GOLD WALK - TECHNOLOGY PLAN - LEVEL 03			
1B-T8.000	GOLD WALK - TECHNOLOGY DETAILS			
16 - DATA / TELECOM: 5				
GRAND TOTAL: 128				

DRAWING INDEX

Sheet Number	Sheet Name	Latest	Description	Date
01 - GENERAL				
1B-G0.000	COVER	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G0.001	DRAWING INDEX	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G1.001	PROJECT INFORMATION	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G1.002	SYMBOLS & ABBREVIATIONS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G1.110	ADA REQUIREMENTS & DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G3.101	EGRESS & OCCUPANCY PLAN - LEVEL 01	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G3.102	EGRESS & OCCUPANCY PLAN - LEVEL 02	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G4.001	U.L. ASSEMBLIES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G4.002	U.L. ASSEMBLIES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G4.003	U.L. ASSEMBLIES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G5.001	PARTITION SCHEDULES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G6.001	DOOR SCHEDULE AND DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G8.001	EXTERIOR MATERIALS SCHEDULE	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G8.002	EXTERIOR MATERIALS SCHEDULE	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-G8.003	EXTERIOR MATERIALS SCHEDULE	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
01 - GENERAL: 15				
02 - CIVIL				
1B-C.002	CIVIL NOTES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.003	EXISTING CONDITIONS PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.004	EXISTING PROPERTY EXHIBIT	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.090	HORIZONTAL CONTROL PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.200	SEWER PLAN AND PROFILE	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.250	SEWER CONSTRUCTION EXHIBIT	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.300	OVERALL GRADING PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.500	CIVIL CONSTRUCTION DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.510	DRAINAGE STRUCTURE DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-C.520	MWW DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
02 - CIVIL: 10				
03 - LANDSCAPE				
1B-L0.01	HARDSCAPET REFERENCE PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L0.03	SITE KEY PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L0.04	GENERAL INFORMATION SHEET	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L3.01	SITE MATERIALS PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L4.01	SITE LAYOUT PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L4.02	SITE LAYOUT PLAN - PAVING PATTERN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L6.01	SITE LIGHTING PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-L7.01	SITE DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M0.01	KEY PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M1.01	MECHANICAL SPECIFICATION	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M1.02	MECHANICAL SCHEDULES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M2.01	MECHANICAL SITE PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M2.02	BOILER ROOM PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M2.03	MECHANICAL FLOOR PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M3.01	MECHANICAL DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-M3.02	MECHANICAL DETAILS AND SCHEMATIC	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
03 - LANDSCAPE: 16				
04 - STRUCTURAL				
1B-S0.01	NOTES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S0.02	NOTES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S0.03	NOTES	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S0.10	QUALITY ASSURANCE	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S0.11	QUALITY ASSURANCE	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S1.01	GOLDWALK - LEVEL 1 FRAMING PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S1.02	GOLDWALK - LEVEL 2 FRAMING PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S1.03	GOLDWALK - LEVEL 3 FRAMING PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S1.04	GOLDWALK - CANOPY ROOF FRAMING PLAN	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S1.05	GOLDWALK CANOPY DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S2.00	GOLDWALK CROSS SECTIONS	-	TBD BULLETIN ###	TBD
1B-S3.00	TYPICAL CONCRETE DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S3.01	FOUNDATION DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S3.02	CONCRETE DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S3.10	TYPICAL SOG DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S3.50	CONCRETE SUPPORTING STEEL DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S4.00	MASONRY DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S5.00	TYP STEEL BEAM CONNS - LRFD	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S5.01	TYP STEEL BEAM CONNS - LRFD	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S5.02	STEEL DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S5.03	STEEL DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S5.31	TYPICAL SLAB ON METAL DECK DETAILS	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
1B-S5.60	PERFORMANCE SPECIFIED FRAMING	-	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT	2021.05.19
04 - STRUCTURAL: 23				



ALERRA east west partners

12305 Mount Werner Circle  
Steamboat Springs, CO 80487

Gensler

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

Tel 303.595.8586  
Fax 303.825.6823



DESIGNWORKSHOP

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



meengineers

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 BID AND PERMIT

Seal / Signature



Project NameSSRC | BASE AREA IMPROVEMENTS

Project Number003.7835.000

DescriptionDRAWING 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, UNLESS NOTED OTHERWISE.
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.

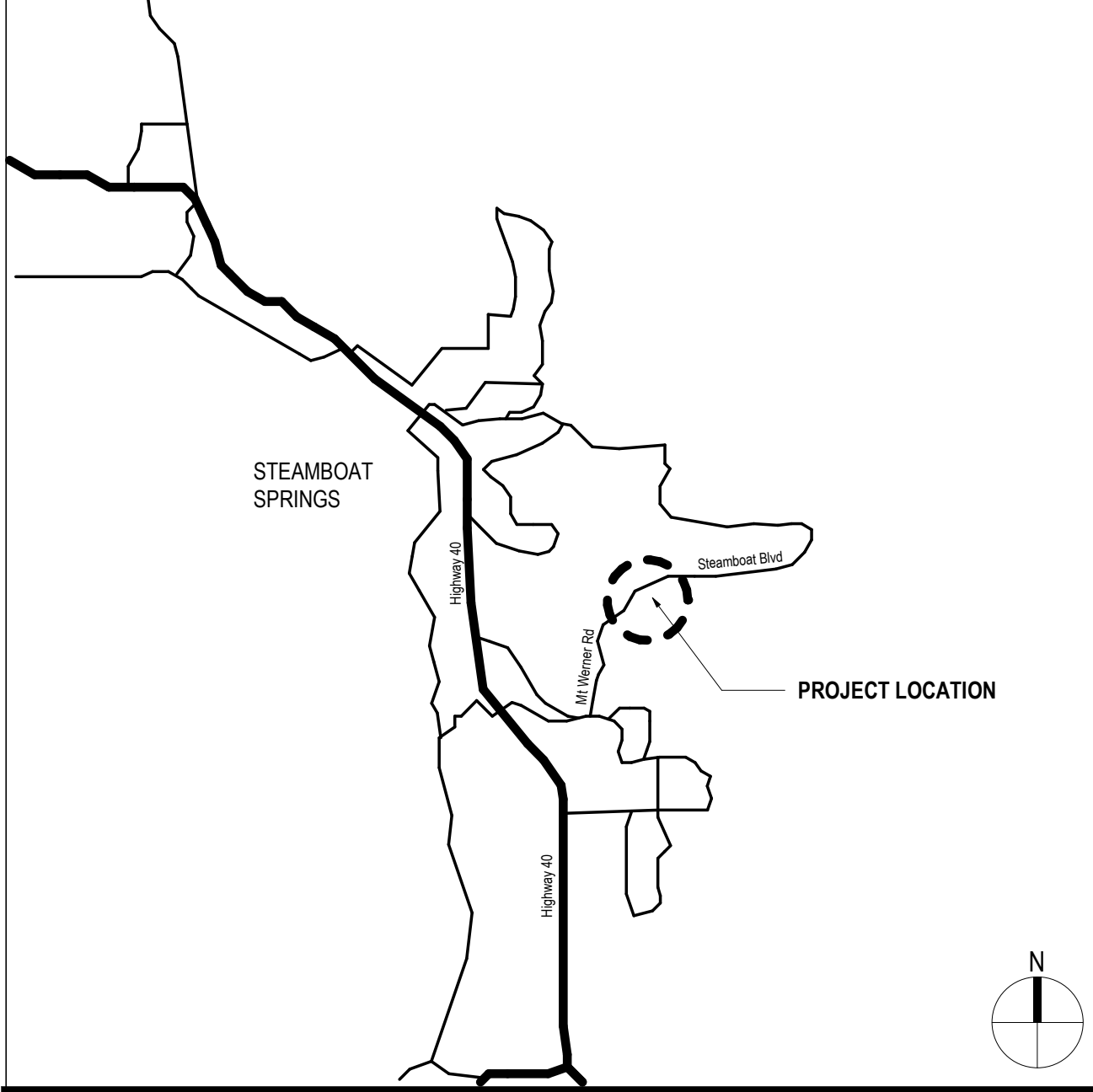
DEMOLITION NOTES

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.

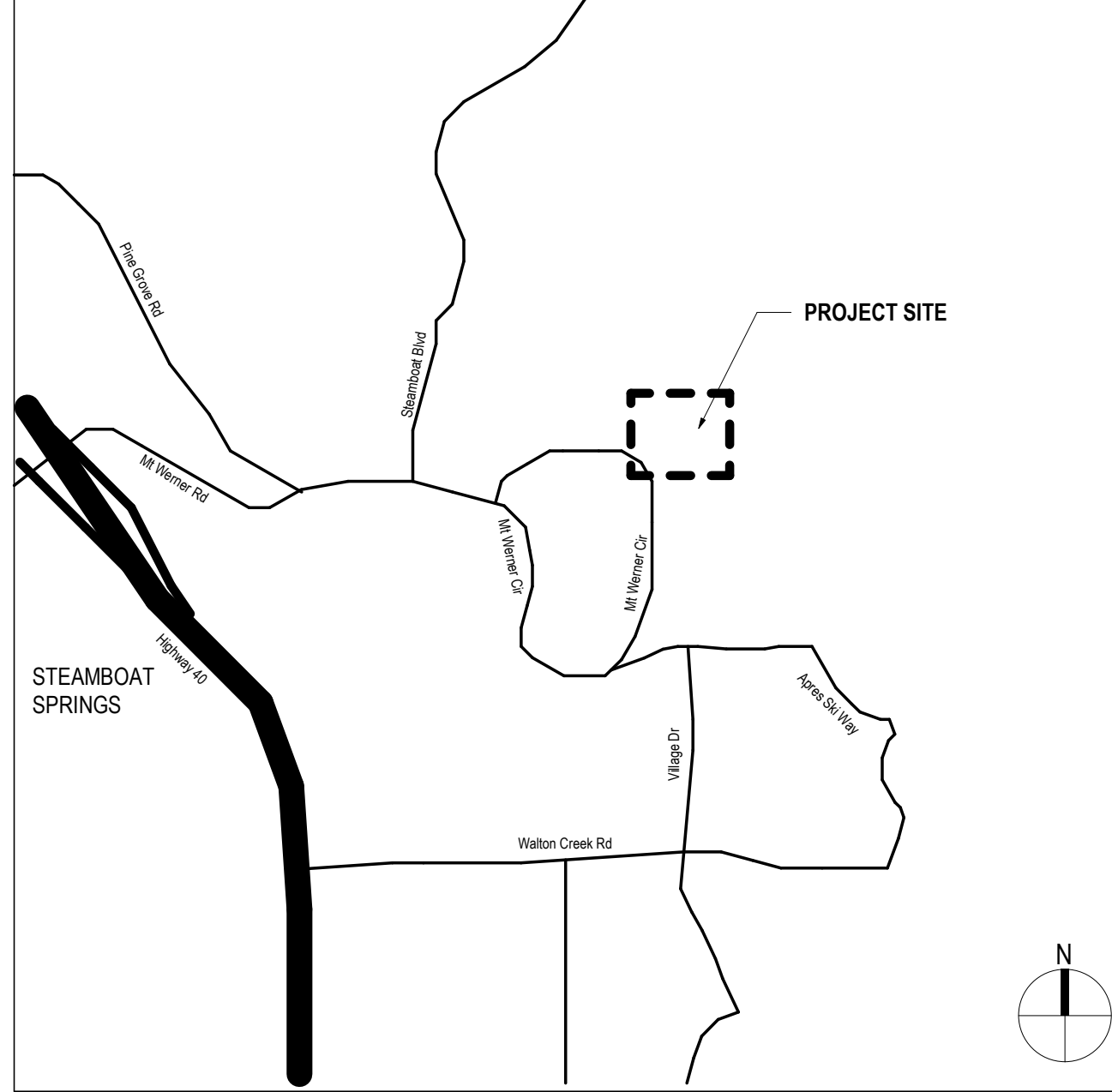
REFLECTED CEILING NOTES

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.

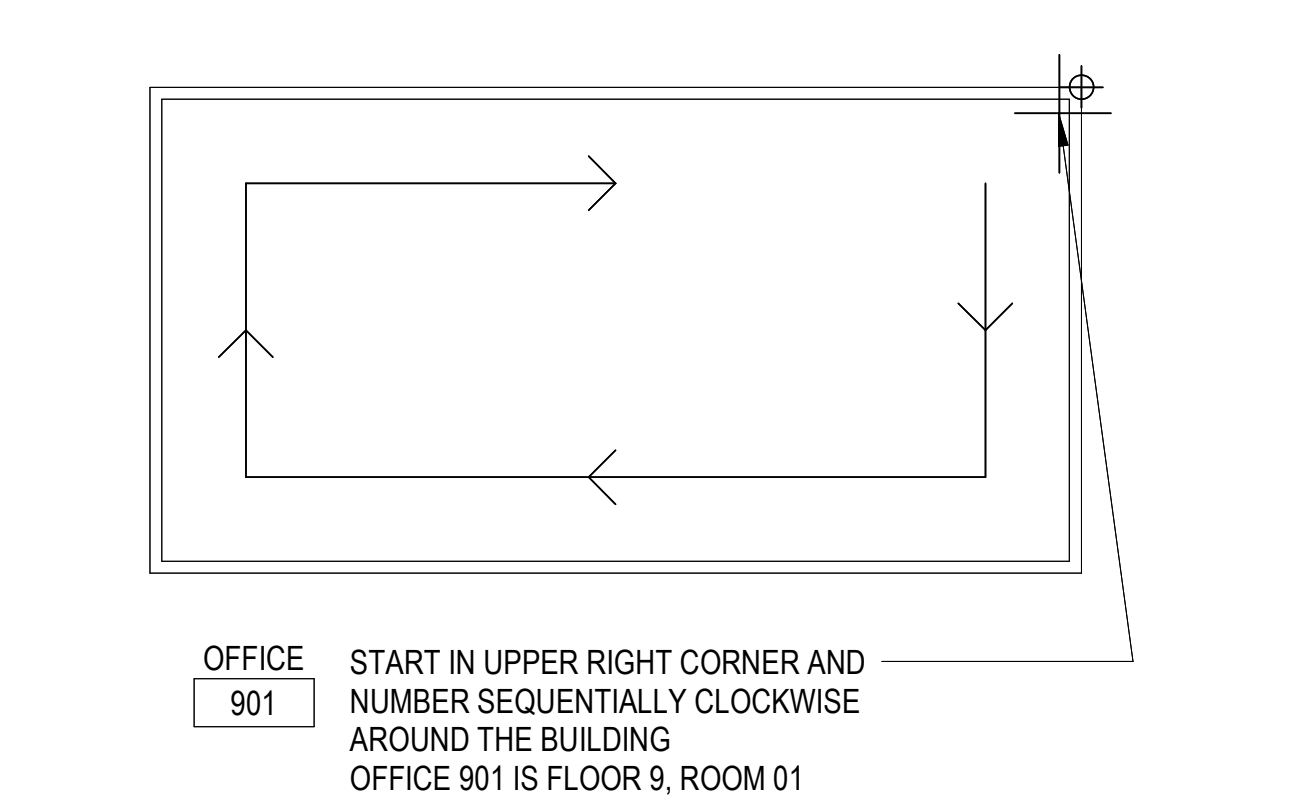
VICINITY MAP



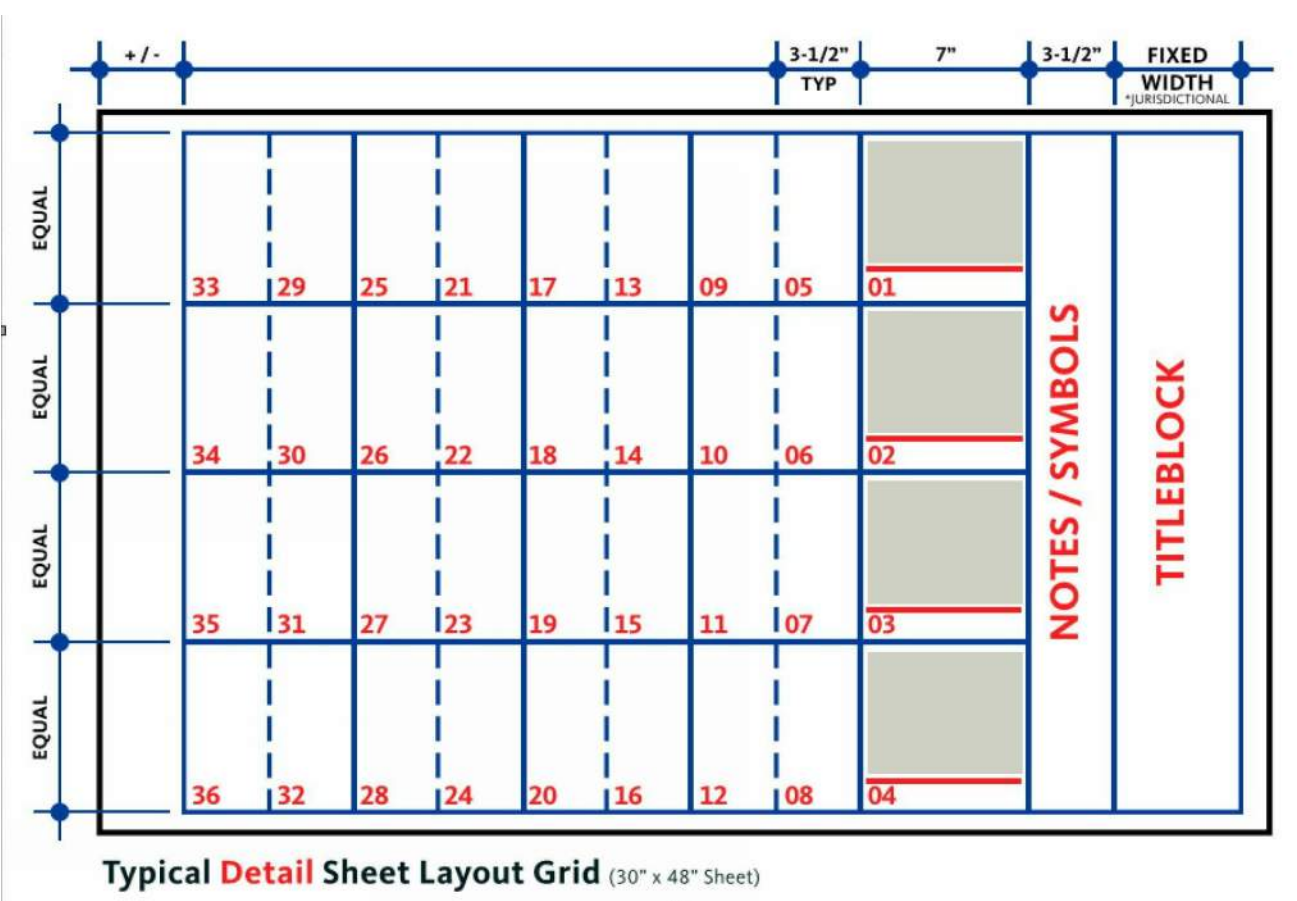
LOCATION MAP



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. BELOW THE PLAZA 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 I117.1, 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"><li>• GUARDRAILS</li><li>• FIRE ALARM SYSTEM</li><li>• FIRE SPRINKLER SYSTEM</li><li>• ACCESS CONTROL HARDWARE</li><li>• SPRAY-APPLIED FIRE PROOFING</li></ul>

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



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



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



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

POWER & COMMUNICATION NOTES

1. PRIOR TO CORING SLAB FOR POWER/COMM POKE-THROUGH DEVICES, COORDINATE LOCATIONS WITH OWNER AND/OR OWNERS' FURNISHINGS CONTRACTOR AND REVIEW WITH ARCHITECT.
2. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.
3. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
4. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS NOTED OTHERWISE.
5. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.
6. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.
7. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
8. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT. PROVIDE NON-COMBUSTIBLE BLOCKING WITHIN WALLS AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION.
9. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
10. MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR.





FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
3. PROVIDE COVED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.



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
		SLEV	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
		STRF	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	PREIN	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
		TLT	TOILET	PTN	PARTITION
		TOC	TOP OF CONCRETE	PVC	POLYVINYL CHLORIDE
		TOL	TOLERANCE	PVF	POLYVINYLENE FINISH
		TOS	TOP OF STEEL	PVG	PAVING
		TOW	TOP OF WALL	PVMT	PAVEMENT
		TP	TOP OF PAVEMENT	PVT	PRIVATE
		TPTN	TOILET PARTITION	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	ENAMEL	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	CAM	CEMENT(TI)OUS
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
LCD	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

	
<p>141 9th Street          PO Box 77143          Steamboat Springs, CO          80477          Tel 970.871.9494</p>	<p>1590 Lawrence Street          Suite 100          Denver, CO 80204          Tel 303.623.5186</p>
	
<p>12499 West Colfax Ave.          Lakewood, CO 80215          United States          Tel 303.431.6100</p>	<p>14143 Denver West Pkwy          Suite 300          Golden, CO          United States          Tel 303.421.6655</p>

Project Name \_\_\_\_\_ 05.19.2021

SSRC | BASE ARE  
IMPROVEMENTS

Project Number

003.7835.000

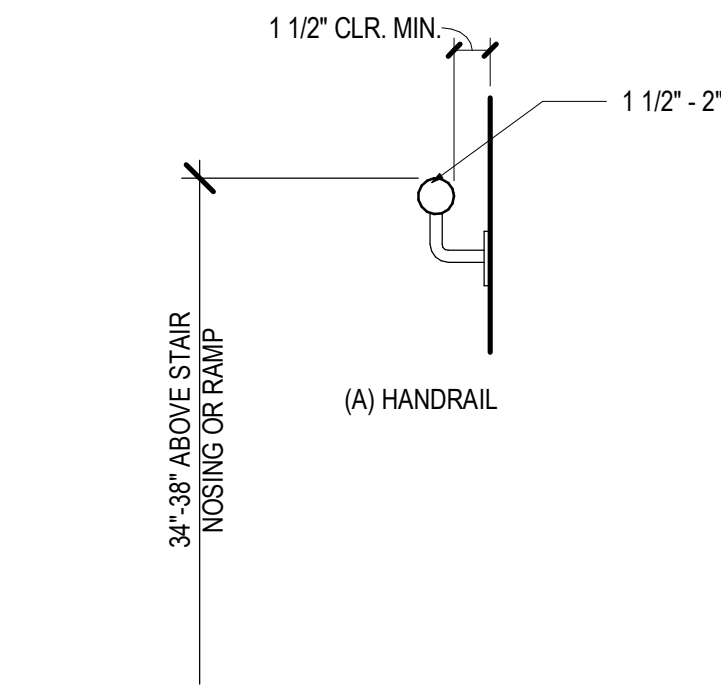
[illegible]

SYMBIO

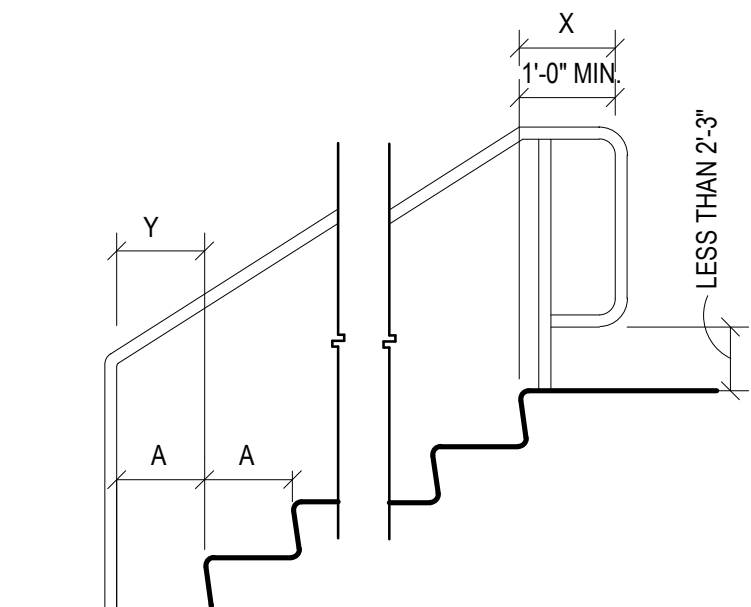
Scale

**1B-G1.002**



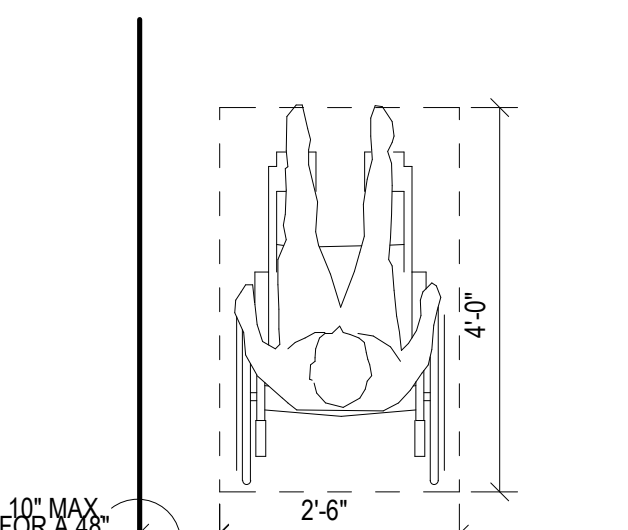
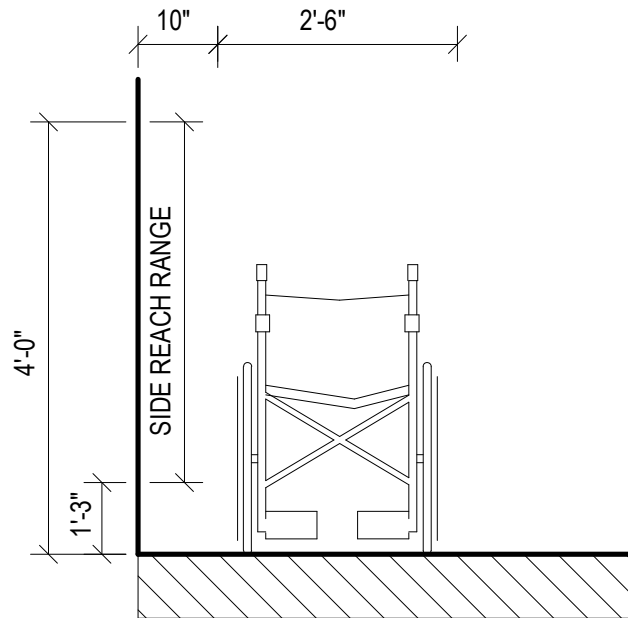
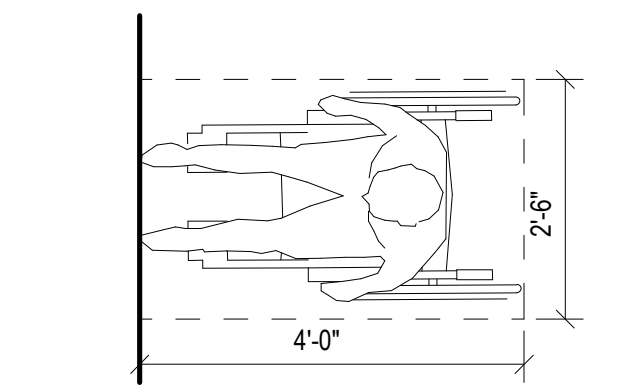
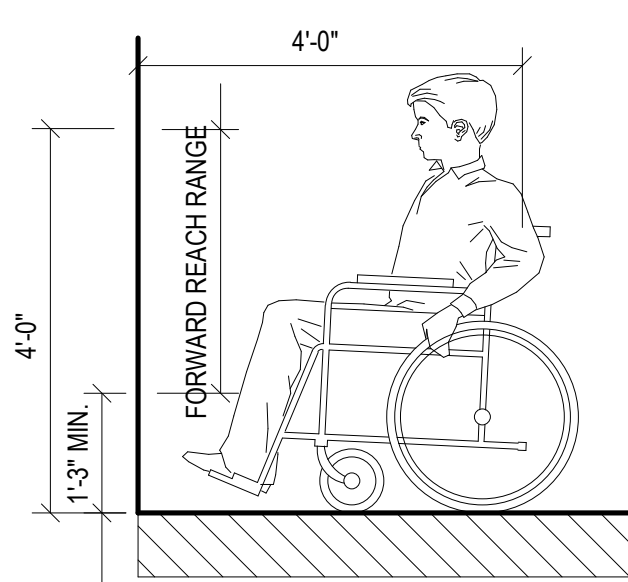


05 RAMP HANDRAILS

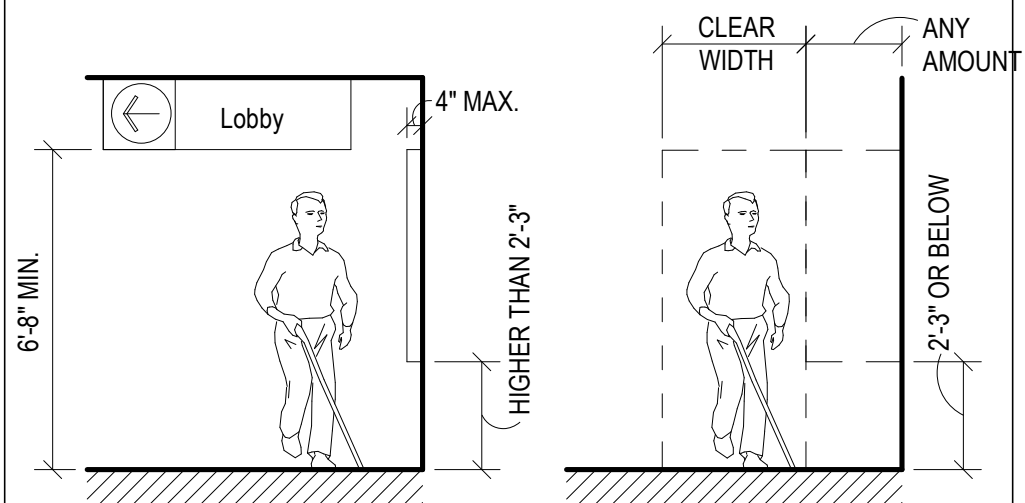


X IS THE 1'-0" MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER  
Y IS THE MINIMUM HANDRAIL EXTENSION OF THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.

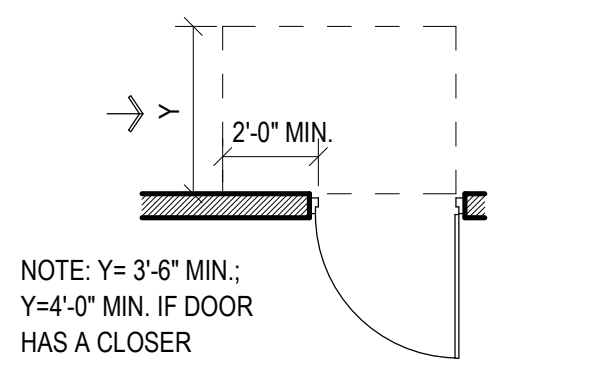
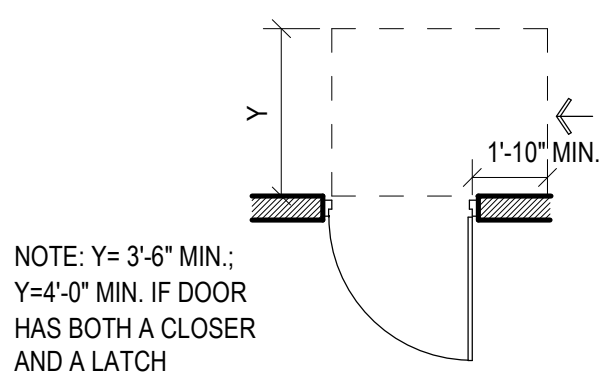
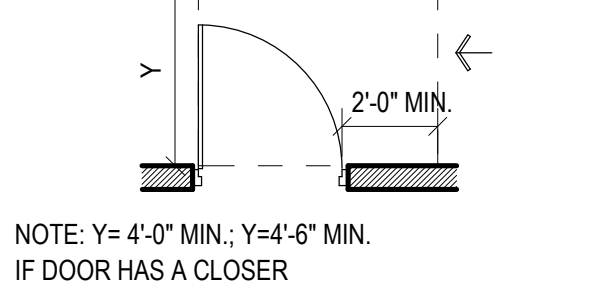
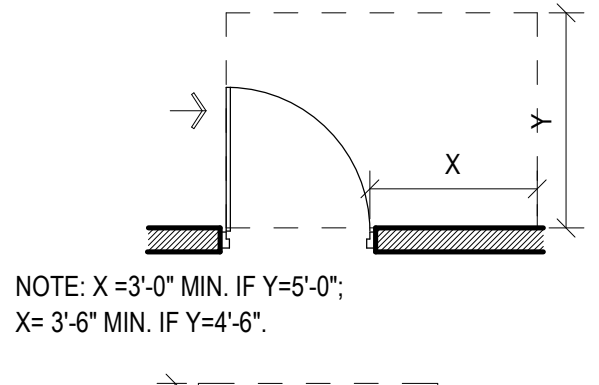
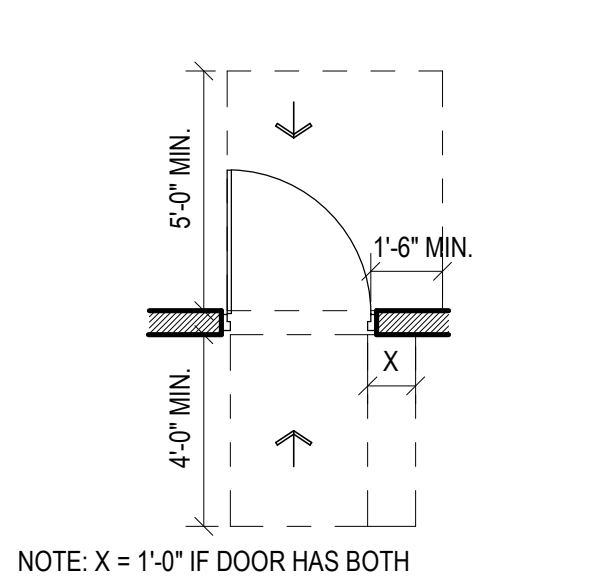
06 HANDRAIL EXTENSIONS  
SCALE: 1/2" = 1'-0"



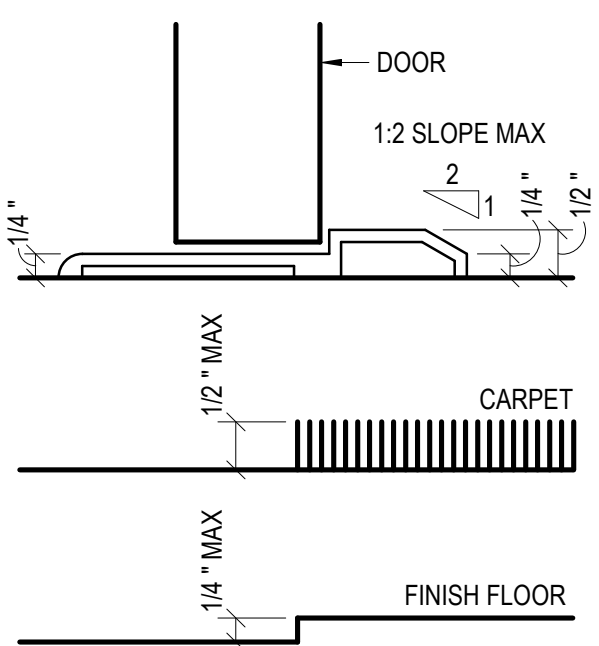
03 REACH RANGES  
SCALE: 1/2" = 1'-0"



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 303.595.8585  
Fax 303.625.6623



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

DESIGNWORKSHOP

1390 Lawrence Street  
Suite 100  
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 BID AND PERMIT

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"

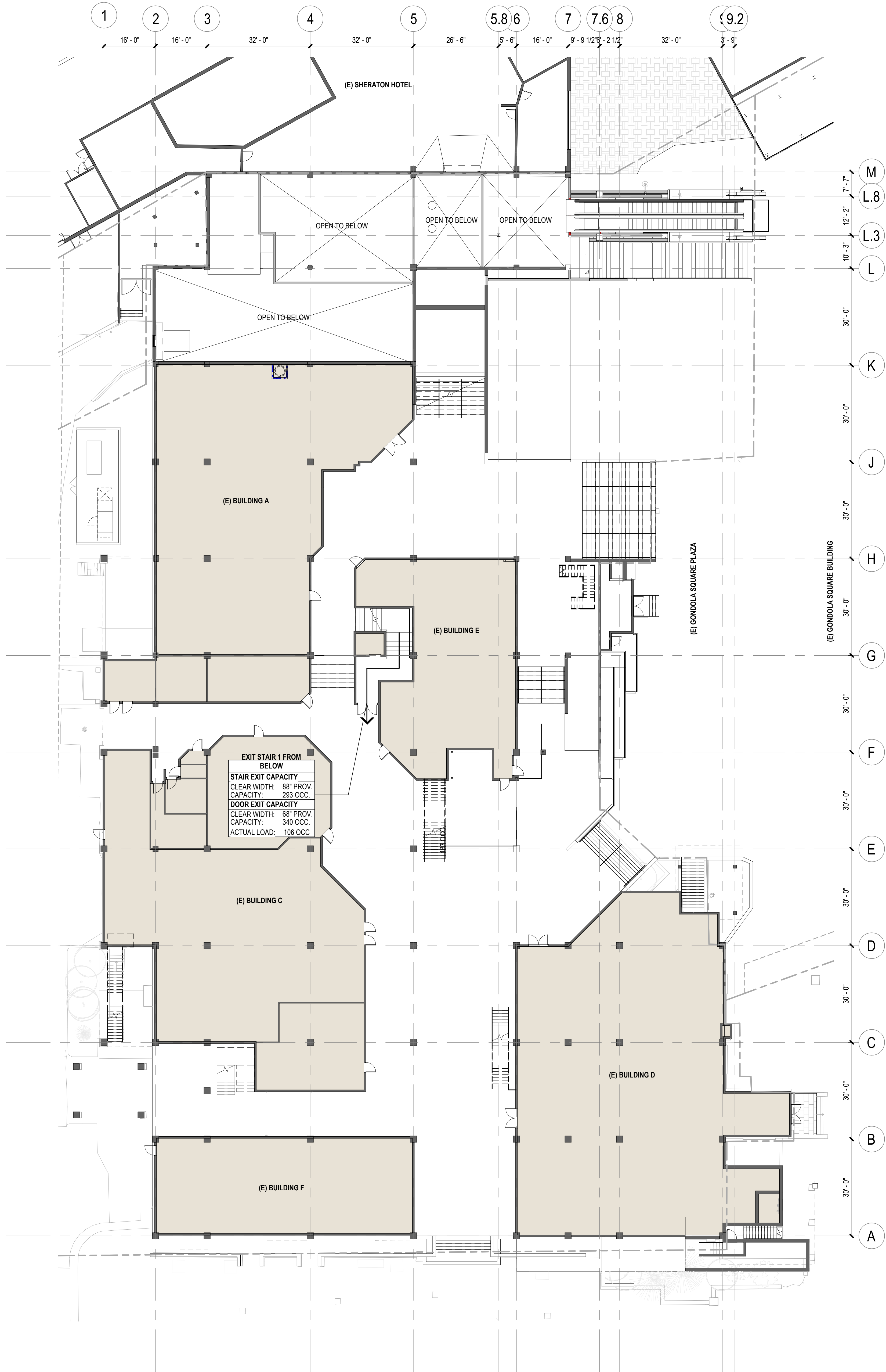
1B-G1.110





© 2021 Gensler





**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  
Denver, CO 80202  
United States  
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  
Tel 303.623.5186

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

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

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

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 V 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 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 (or No. 6 by 1-1/4 in. long luge 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, SH, SJ and SK) – Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members\* – Steel Studs** – (As an alternate to Item 2, For use with Items SC, SJ or SK) – 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 SF or SG or SJ or SK only, channel shaped studs, min depth as indicated under Item 5F, SG or SJ, 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-TRACK™

2I. **Framing Members\* – Steel Studs** – (As an alternate to Item 2, For use with Items SC or SJ or SK) – 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 0.260 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

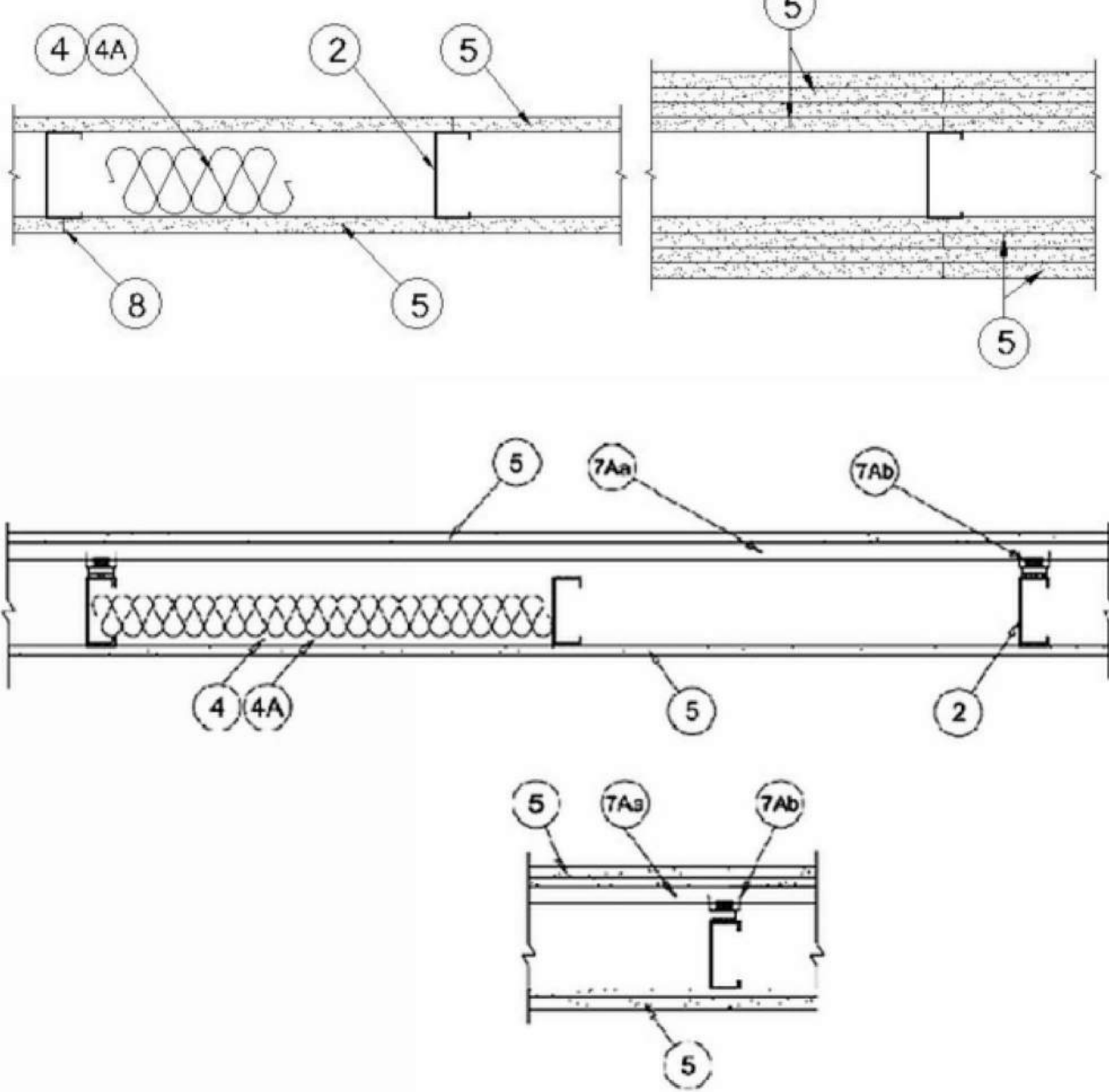
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U419

August 25, 2016

Nonbearing Wall Ratings – 1, 2, 3 or 4 Hr (See Items 4 & 5 through SK)

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



1. **Floor and Ceiling Runners** – (Not Shown) – For use with Item 2 – Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor

and ceiling with fasteners 24 in. OC max.

1A. **Framing Members\* – Floor and Ceiling Runner** – Not Shown – In lieu of Item 1 – For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO – Viper25™ Track

CRACO MFG INC – SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC – Viper25™ Track

1B. **Framing Members\* – Floor and Ceiling Runner** – Not Shown – In lieu of Item 1 – For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO – Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC – Viper20™ Track

1C. **Framing Members\* – Floor and Ceiling Runners** – (Not Shown) – In lieu of Item 1 – Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC – Type SUPREME 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

1D. **Floor and Ceiling Runners** – (Not Shown) – For use with Item 2A – Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members\* – Floor and Ceiling Runners** – (Not Shown, As an alternate to Item 1) – For use with Items 2E, SF or SG or SJ only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS – CD ProTRAK

DMFCWBS L L C – ProTRAK

MBA METAL FRAMING – ProTRAK

RAM SALES L L C – Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C – Tri-S ProTRAK

1F. **Framing Members\* – Floor and Ceiling Runner** – Not Shown – In lieu of Item 1 – For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated

from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS – The Edge

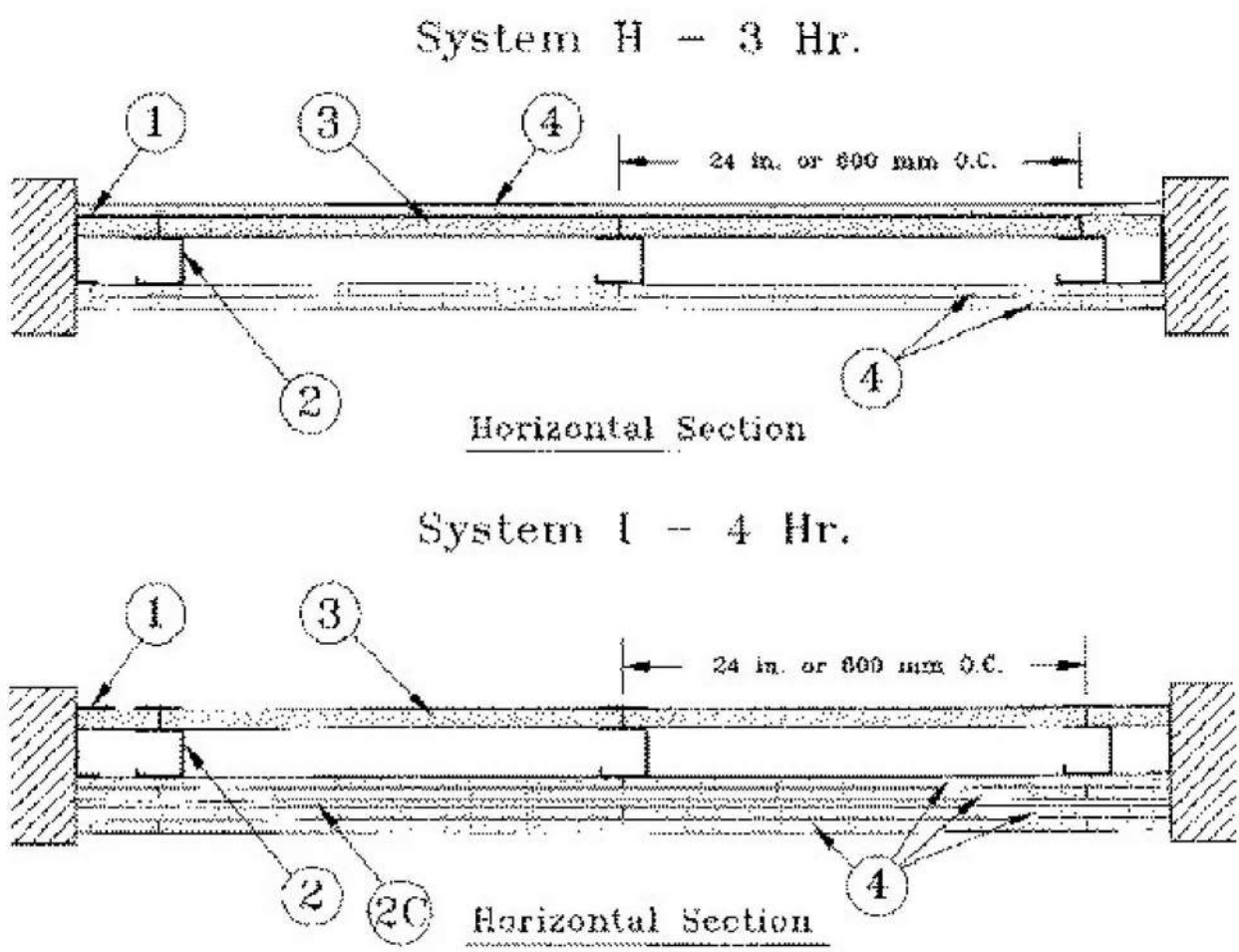
1G. **Framing Members\* – Floor and Ceiling Runner** – For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

STUDDO BUILDING SYSTEMS – CROCSTUD Track

1H. **Floor and Ceiling Runners** – (Not Shown) – Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min



## 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" - H" 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 1 - "I" - shaped, 25 MSG galv steel furring channels attached directly over the 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" - H" 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 1, 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

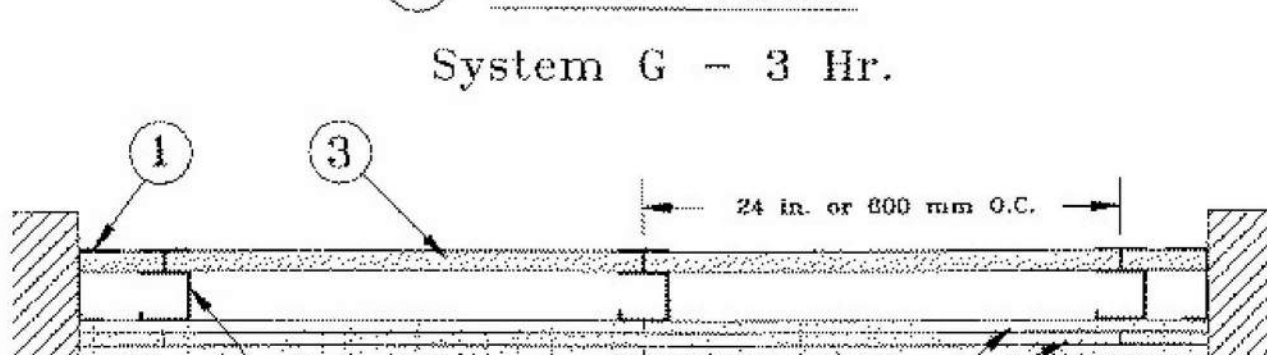
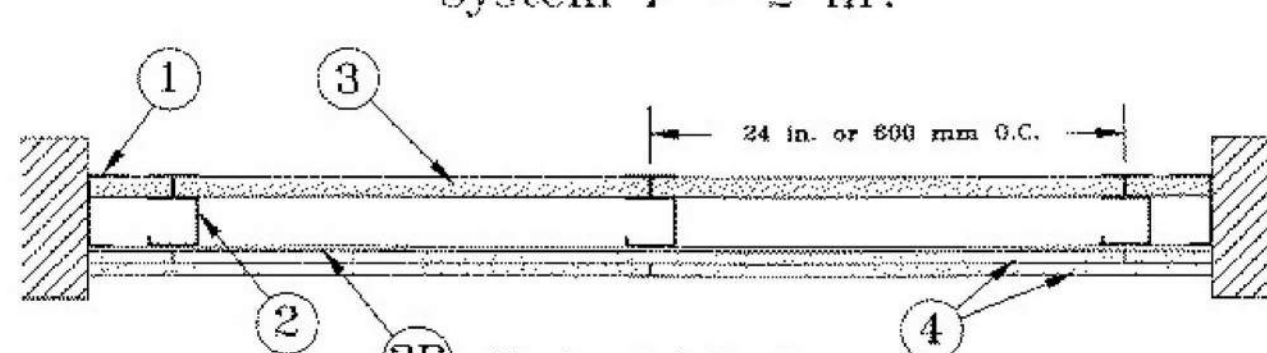
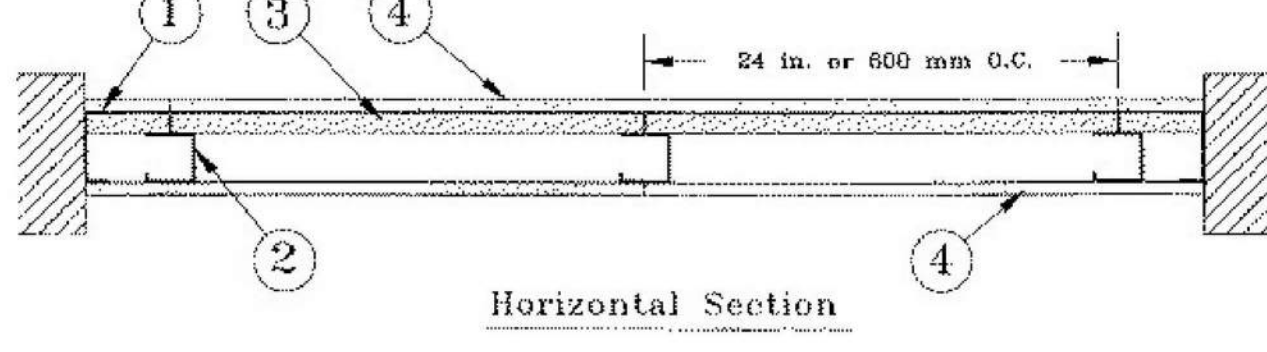
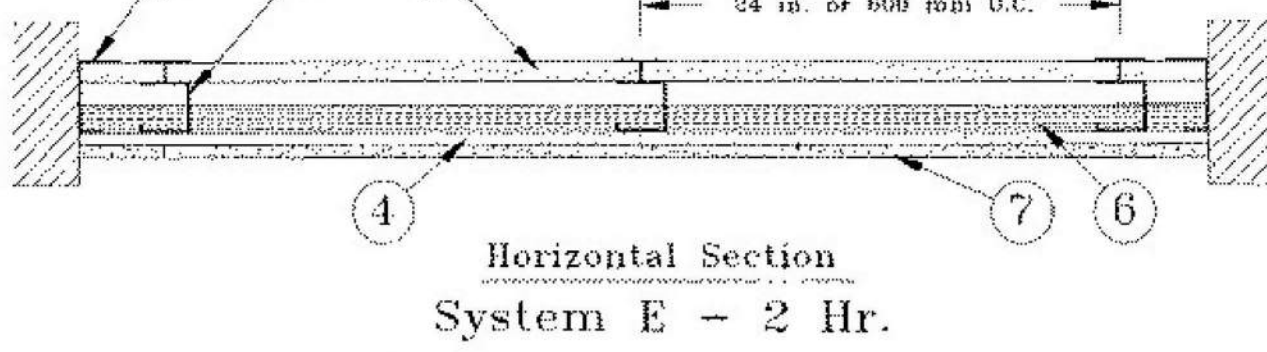
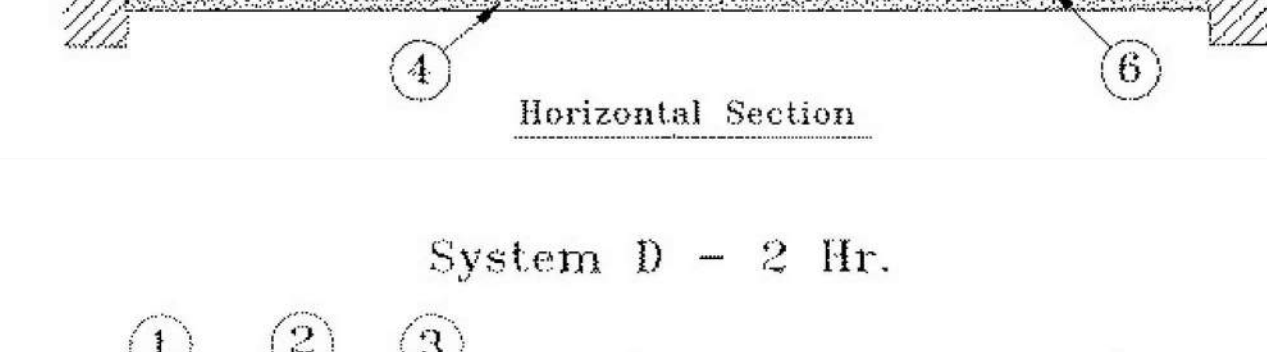
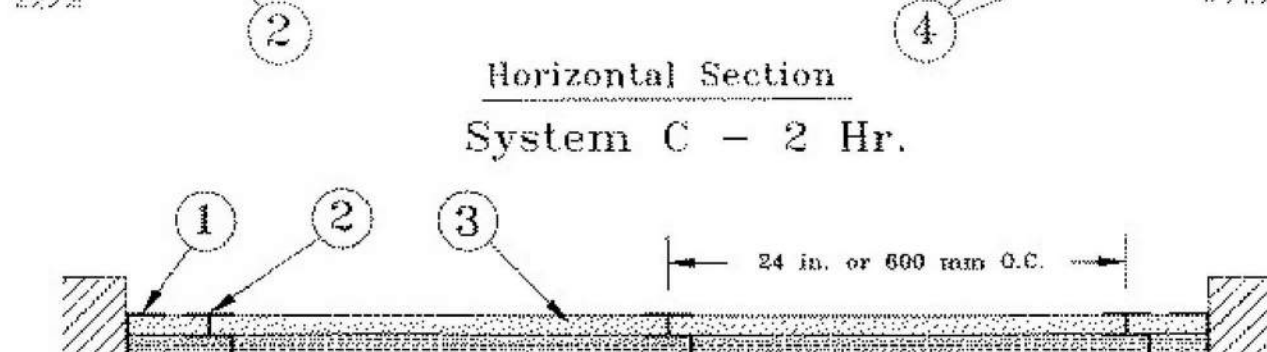
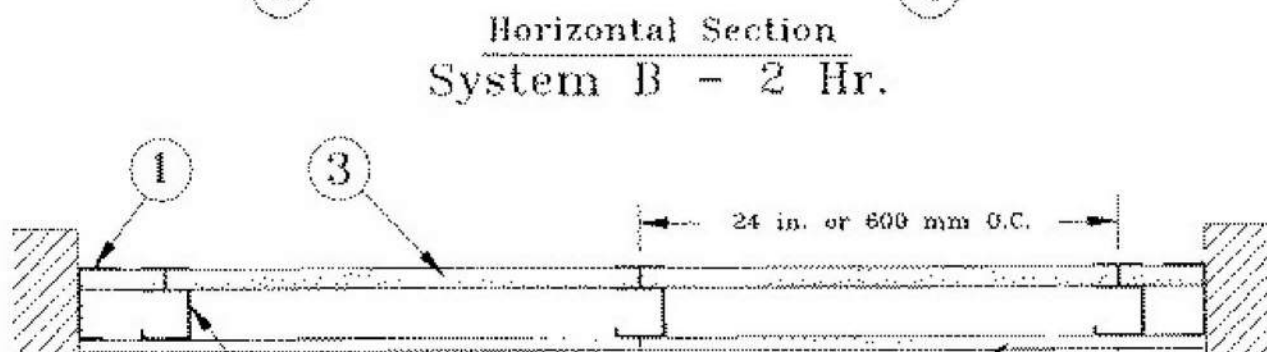
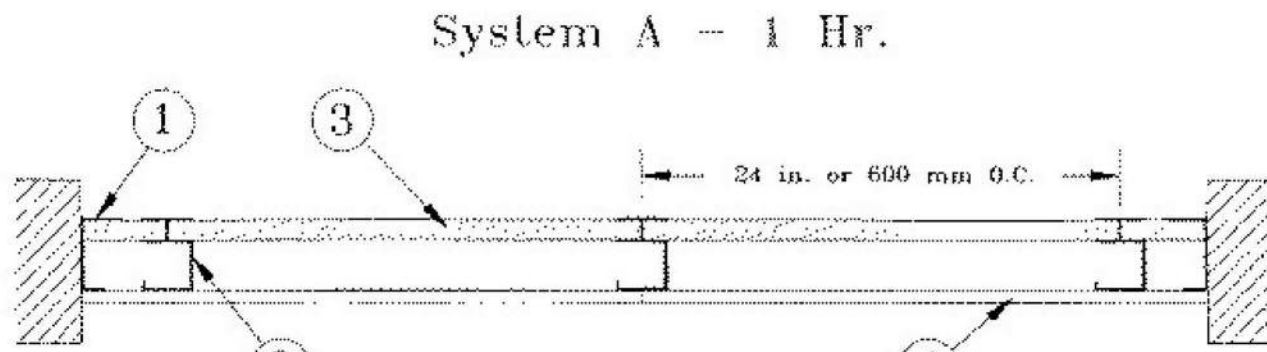
## UL DESIGN NO. U415

### 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.



## 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 SE.

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 SE.

b. **Steel Framing Members** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

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

7B. **Framing Members** — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and SE.

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 SE.

b. **Steel Framing Members** — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members** — (Optional, 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 4. 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 SE.

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. **Sliding, Brick or Stucco** — (Optional, Not Shown) — Aluminum, vinyl or steel sliding, 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 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 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-2017, 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 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-2017, 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-2017, 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-2017, 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 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-2017, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs** — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2017, 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

## 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-2017, 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 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-2017, 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.

## SHEET NOTES

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

## GENERAL NOTES

**Steamboat**  
ALTRERA east west partners  
MOUNTAIN COMPANY

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

**Gensler**

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

Tel 303.595.8886  
Fax 303.825.6823

**LANDMARK**  
CONSTRUCTION

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

**DESIGNWORKSHOP**

1390 Lawrence Street  
Suite 100  
Denver, CO 80204  
Tel 303.623.5186

**MARTIN/MARTIN**  
ARCHITECTS

14143 Denver West Pkwy  
Suite 300  
Golden, CO 80621



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 (B1WR) in the Fire Resistance Directory or Adhesives (B1JZ) 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

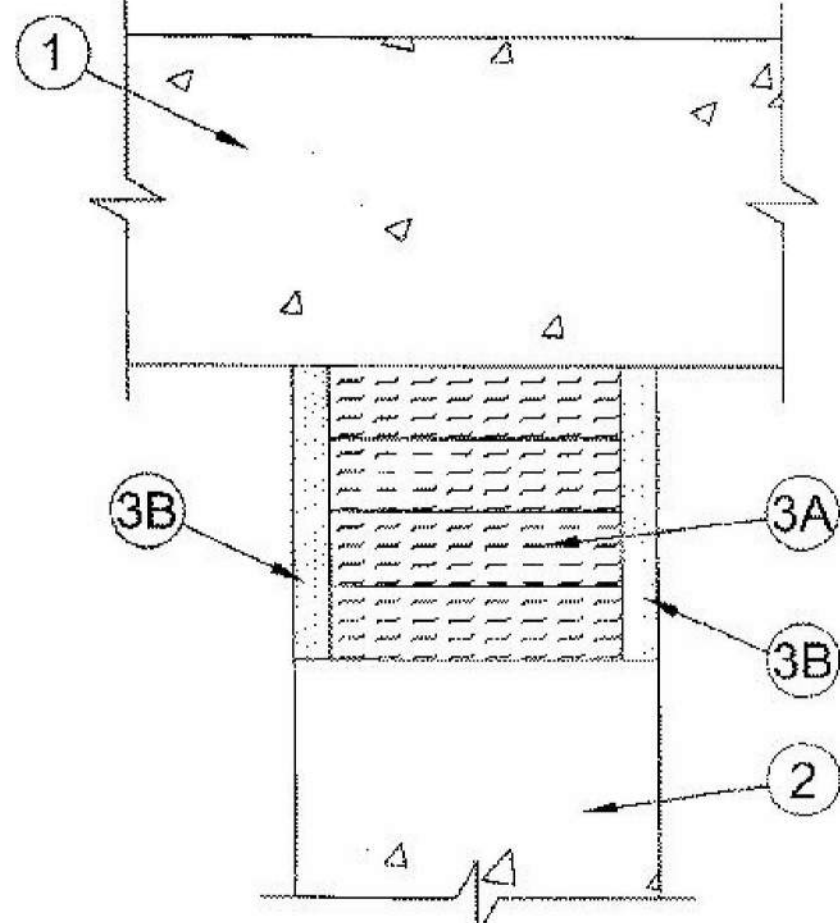
Assembly Ratings — 1, 2 & 3 Hr (See Item 1)

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/m<sup>3</sup>) 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/m<sup>3</sup>) 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/m<sup>3</sup>) mineral wool batt insulation installed in joint opening as a permanent form. Piece 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 System 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 24 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 (BKNV or BZJZ) 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 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".

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 (BKNV or BZJZ) 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

GENERAL NOTES

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

ALERRA east west partners

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

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

Tel 303.595.8586  
Fax 303.825.6823

DESIGNWORKSHOP

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

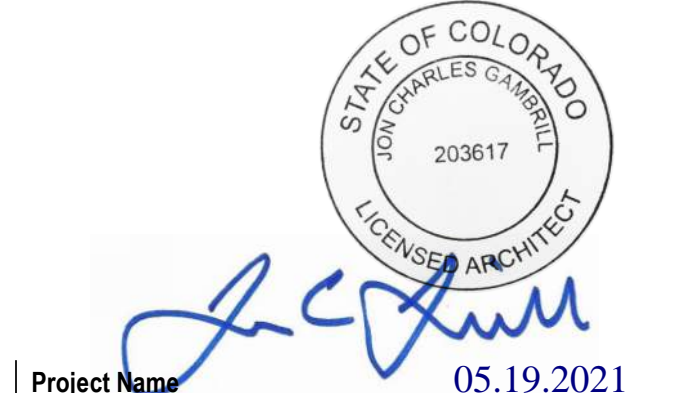
me engineers

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

14143 Denver West Pkwy  
Suite 300  
Golden, CO 80204  
United States  
Tel 303.421.6655

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

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

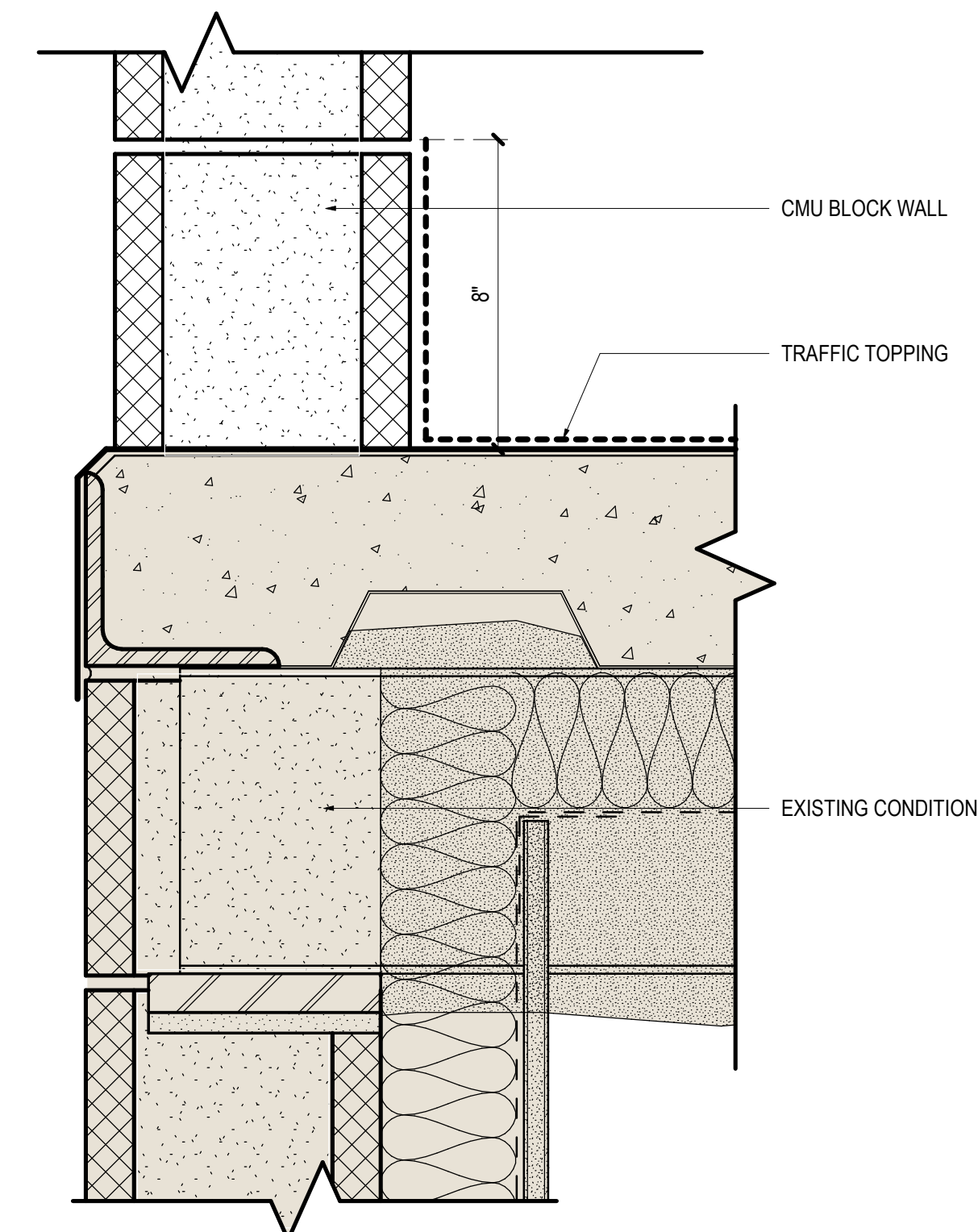
U.L. ASSEMBLIES

Scale

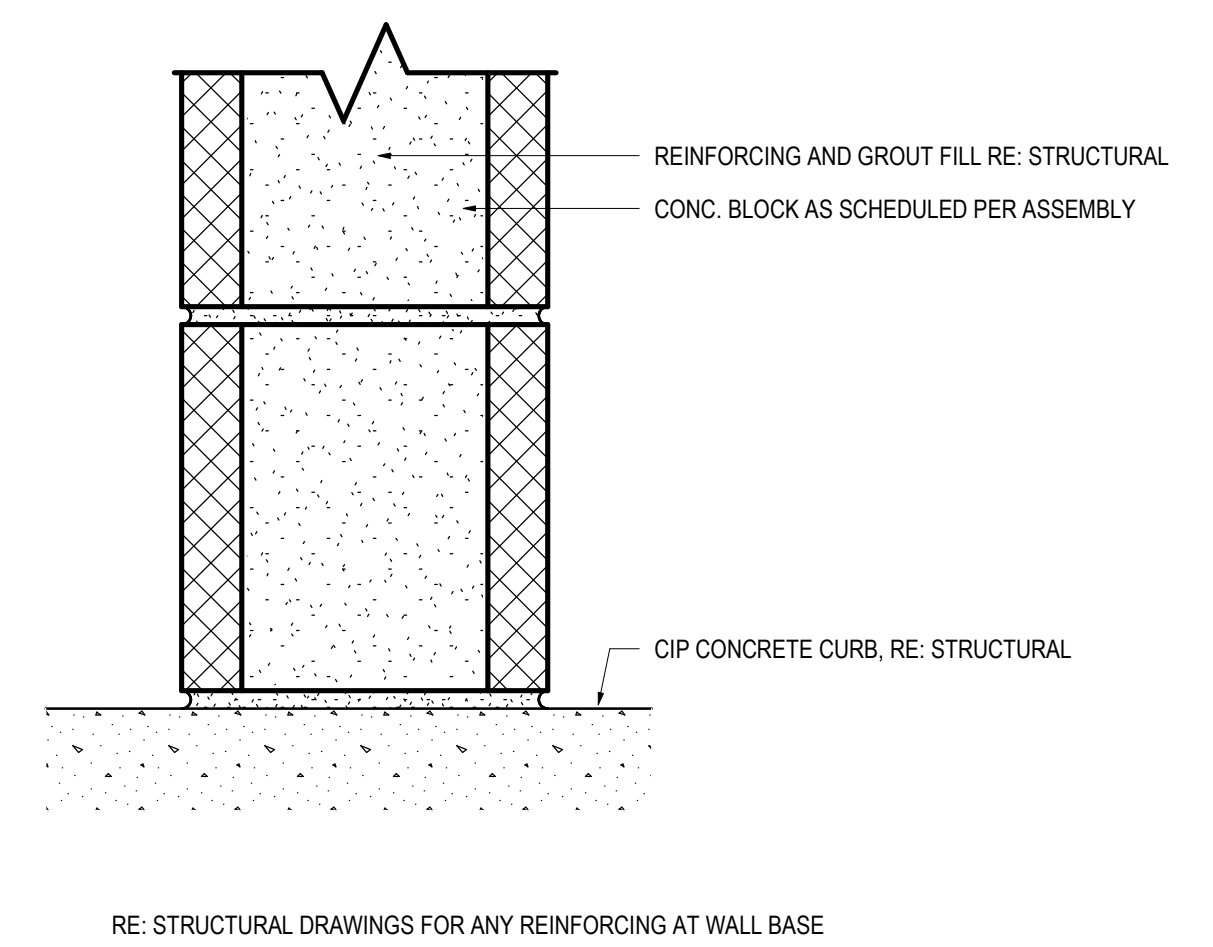
12" = 1'-0"

1B-G4.003

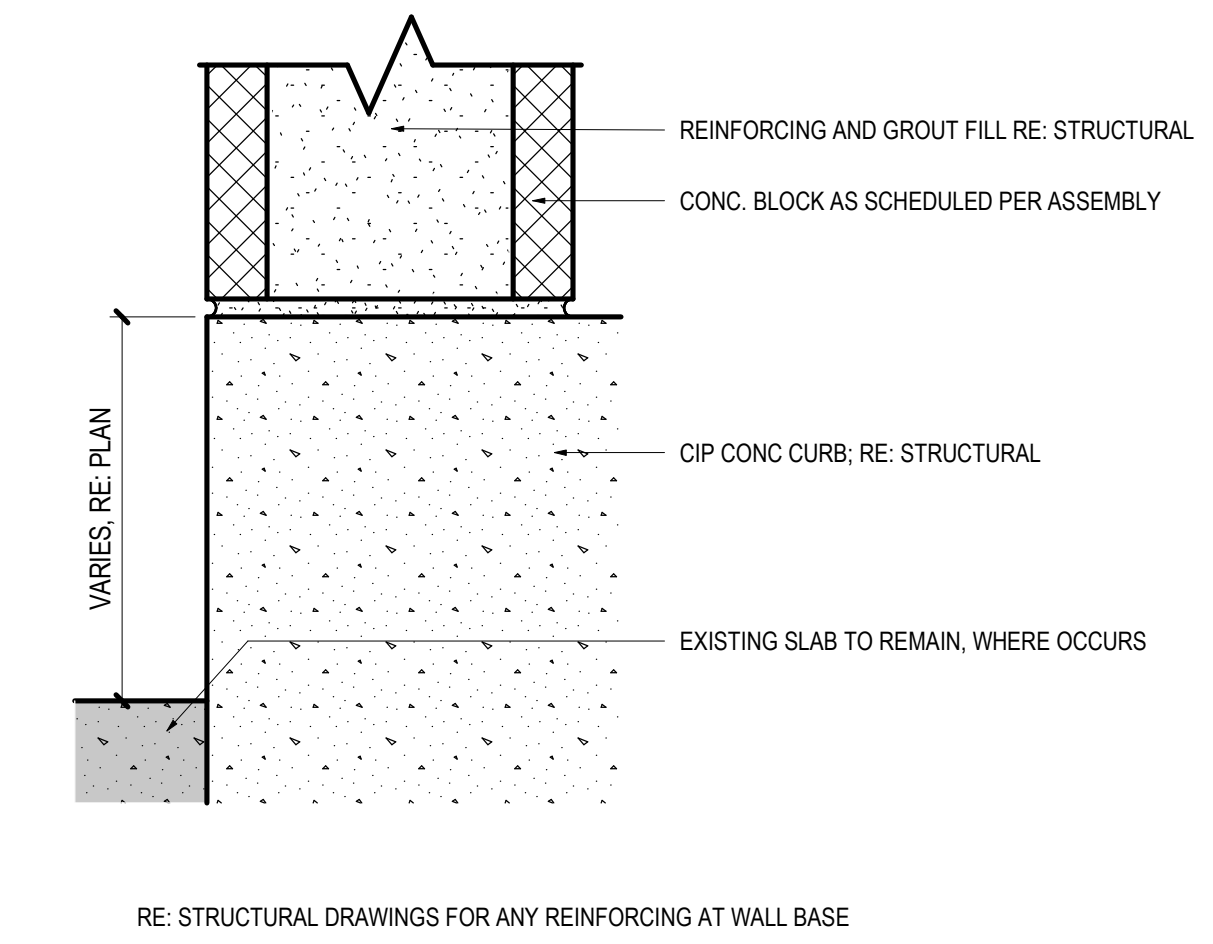




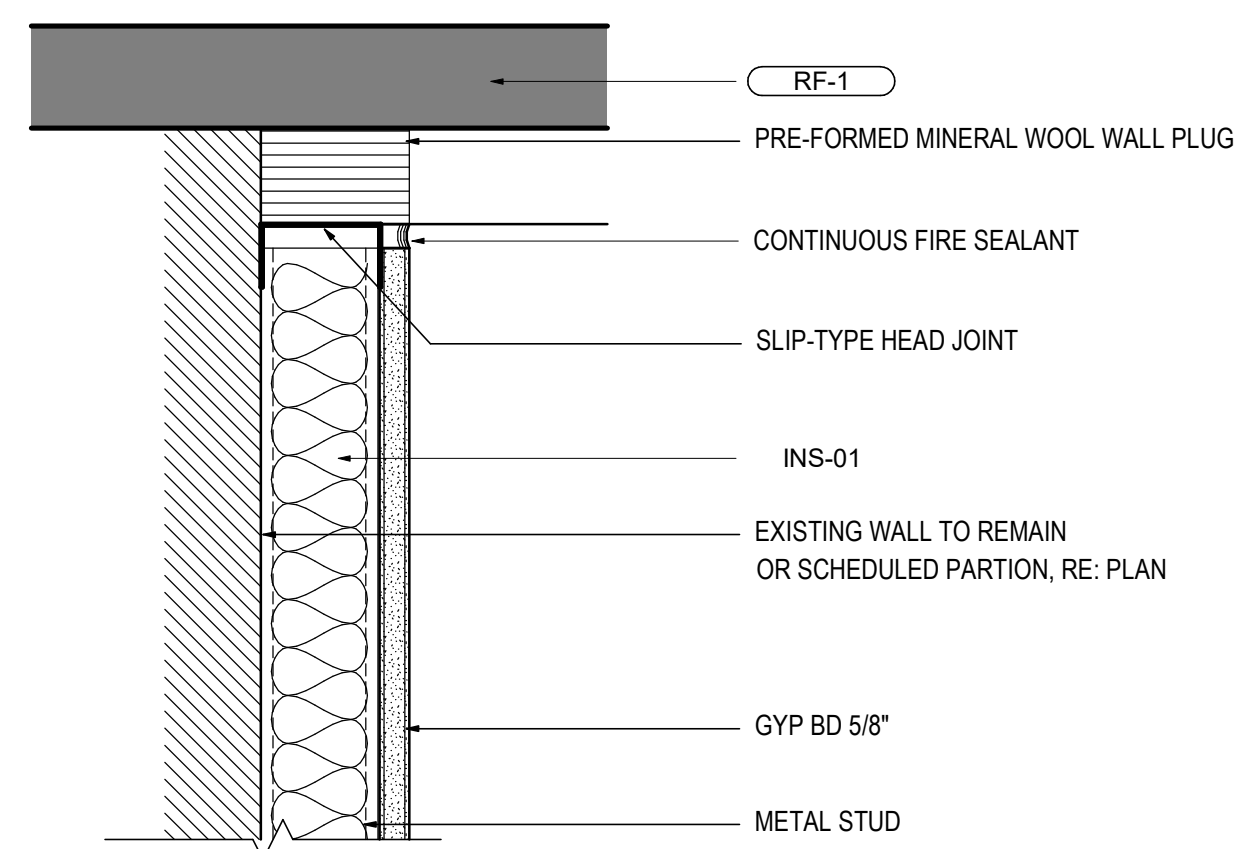
M T01



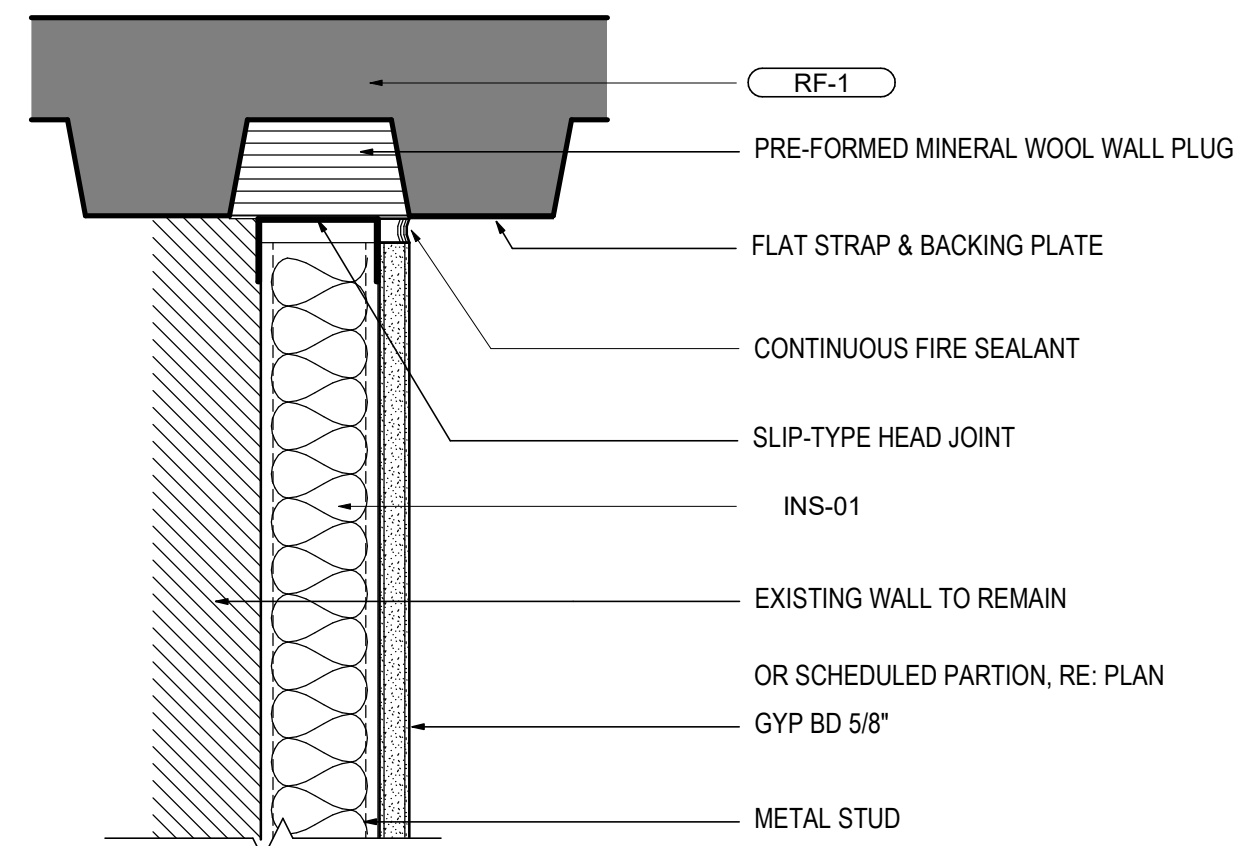
M B01



M B02

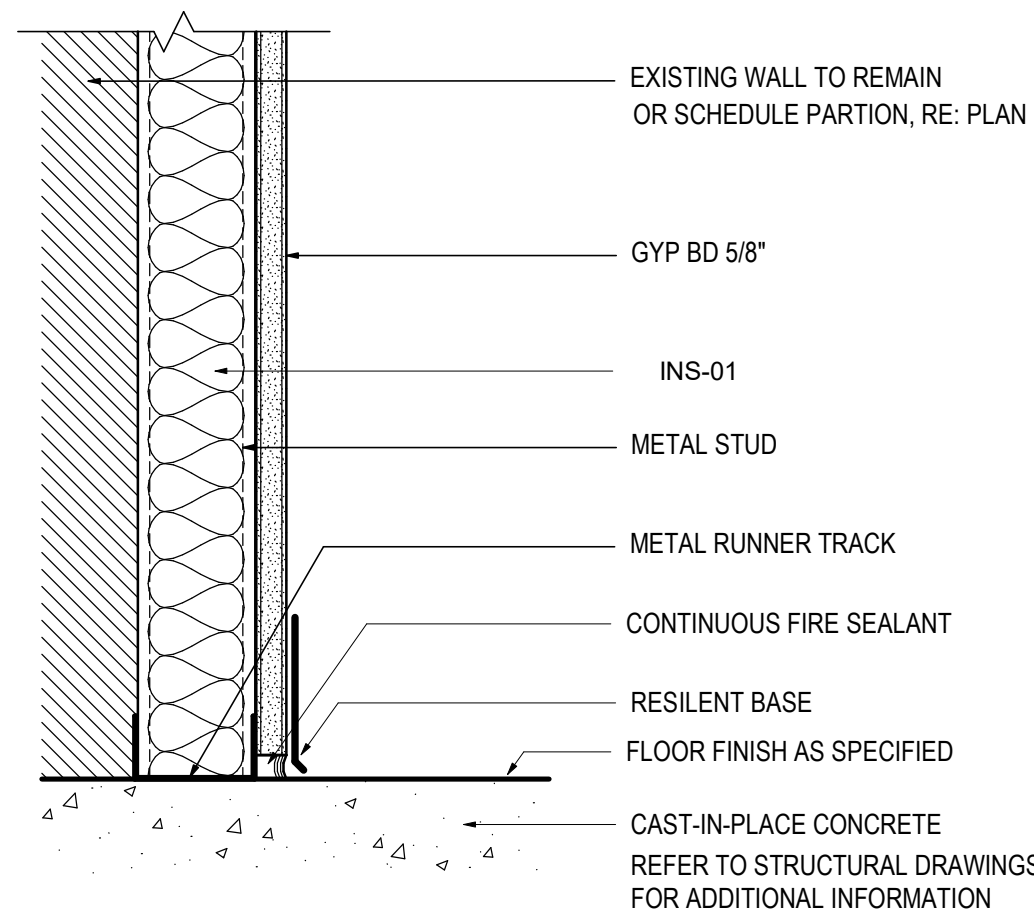


PERPENDICULAR TO DECK FLUTES

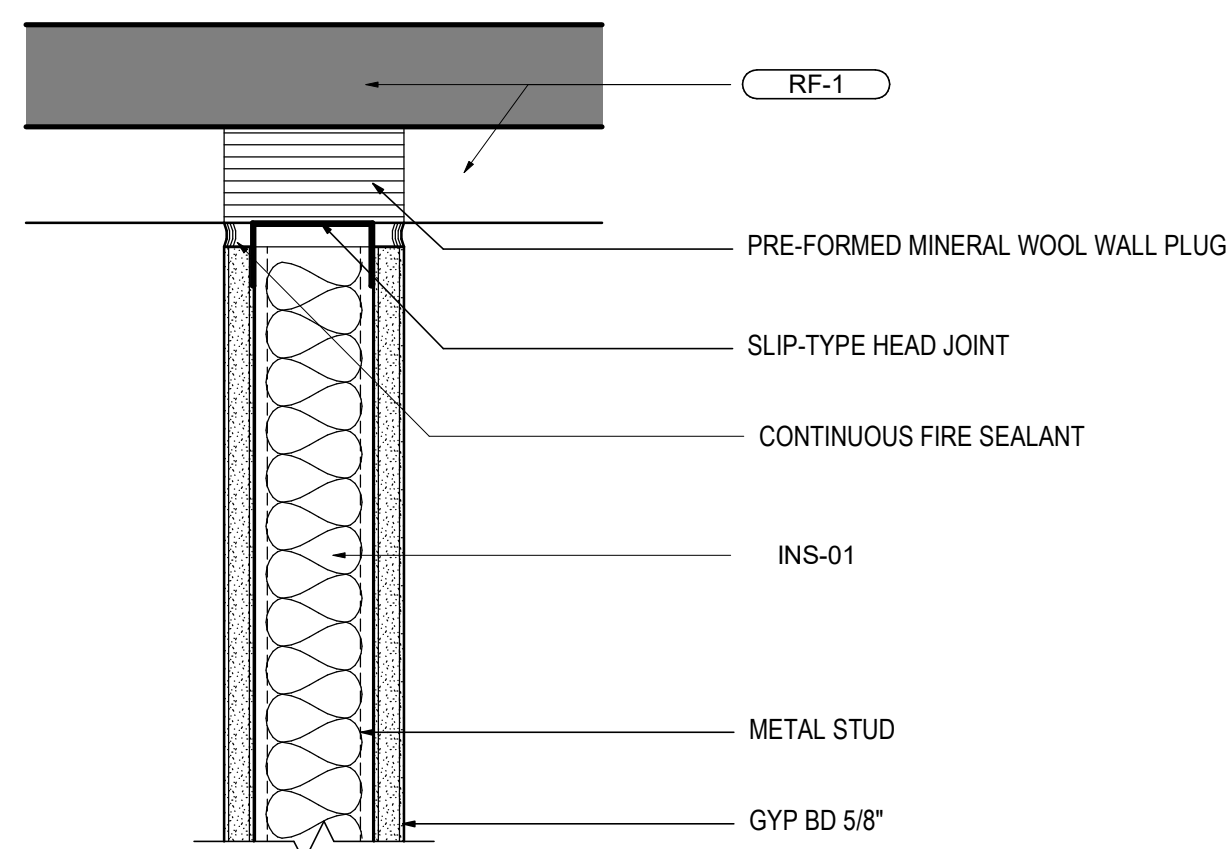


PARALLEL TO DECK FLUTES

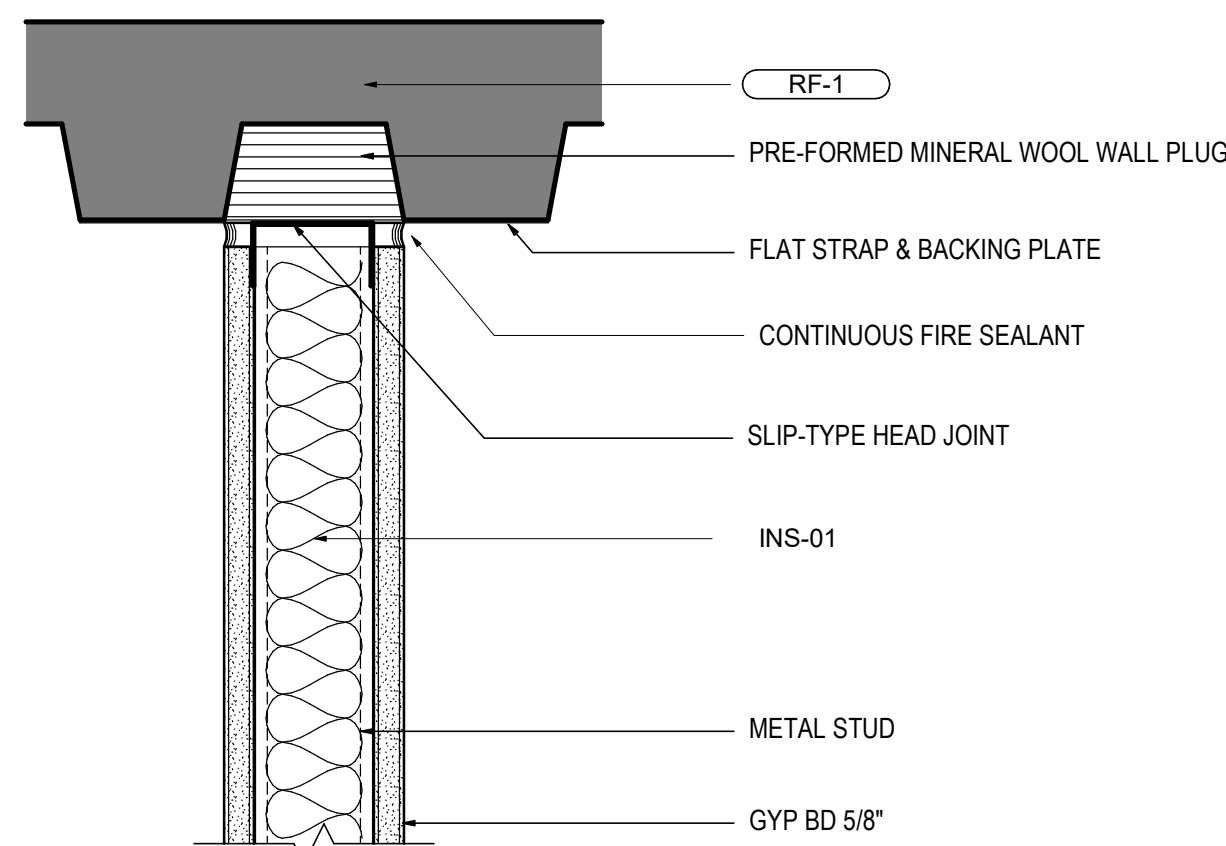
D T01



D B01

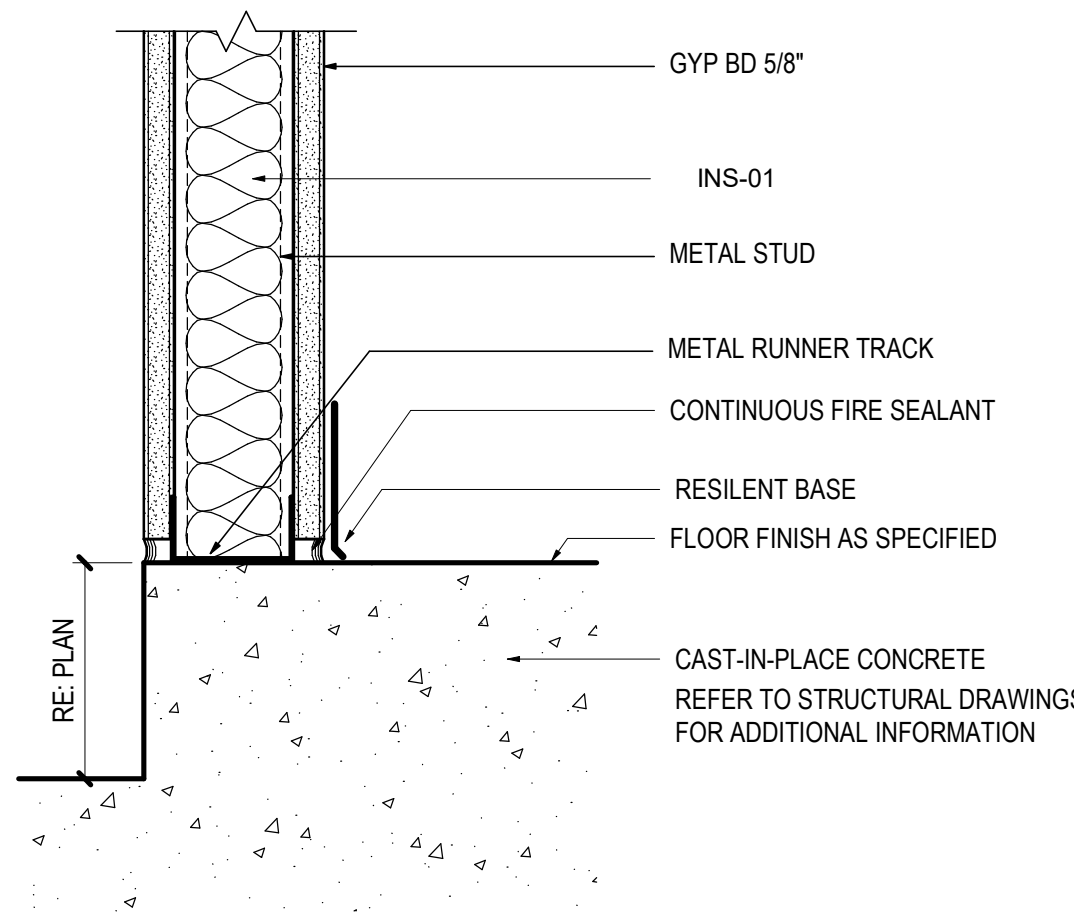


PERPENDICULAR TO DECK FLUTES

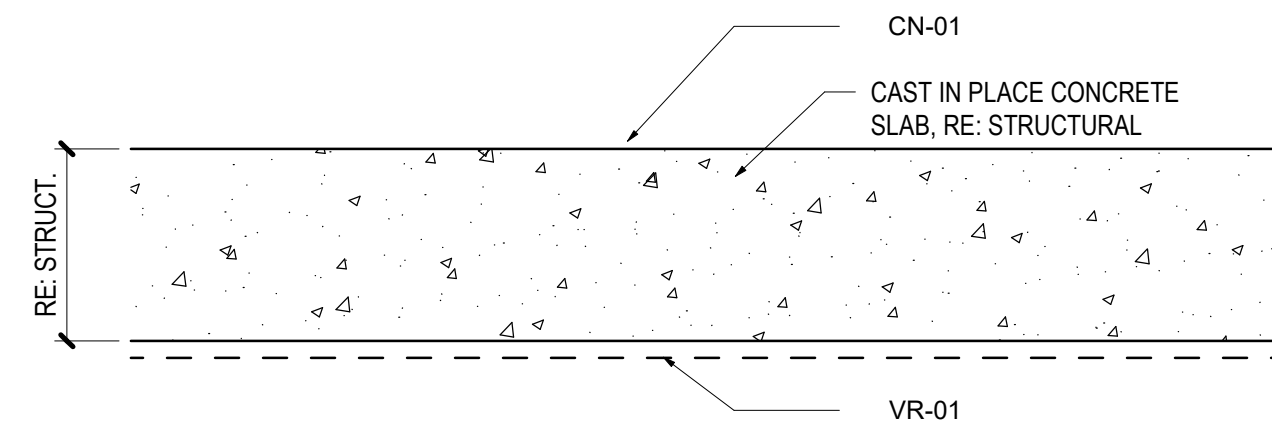


PARALLEL TO DECK FLUTES

A T01

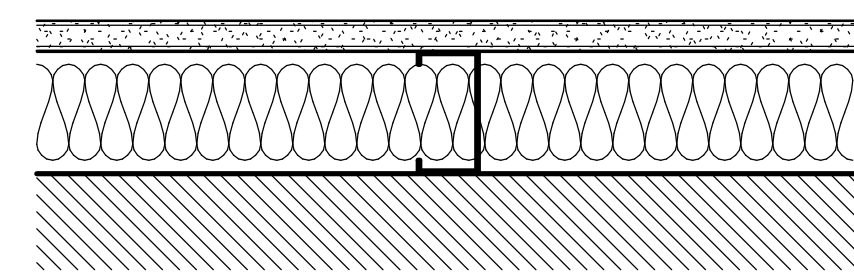


A B03



01 FLOOR ASSEMBLY - FL-1

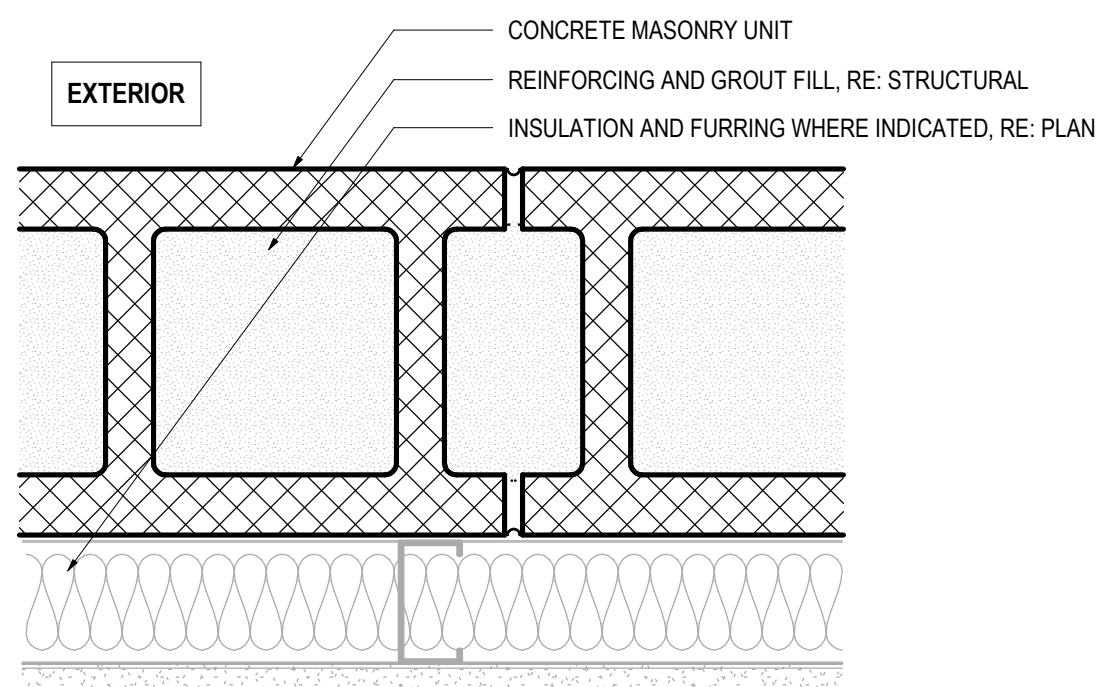
SCALE: 3" = 1'-0"



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	
MBA	8"	M T01	M B01				

1 HR RATED

03 M SERIES PARTITION TYPES

SCALE: 3" = 1'-0"

## PARTITION NOTES

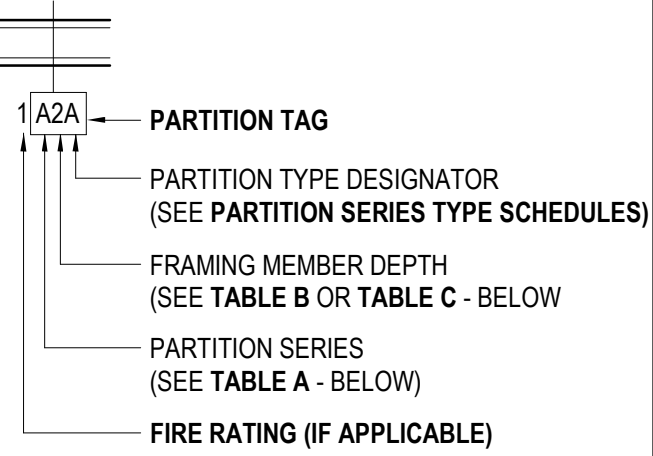


TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

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.

## Gensler

1225 17th Street  
Suite 150  
Denver, CO 80202  
United States  
Tel 303.595.8586  
Fax 303.825.6823



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

## DESIGNWORKSHOP

1390 Lawrence Street  
Suite 100  
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 80204  
United States  
Tel 303.421.6655

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

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

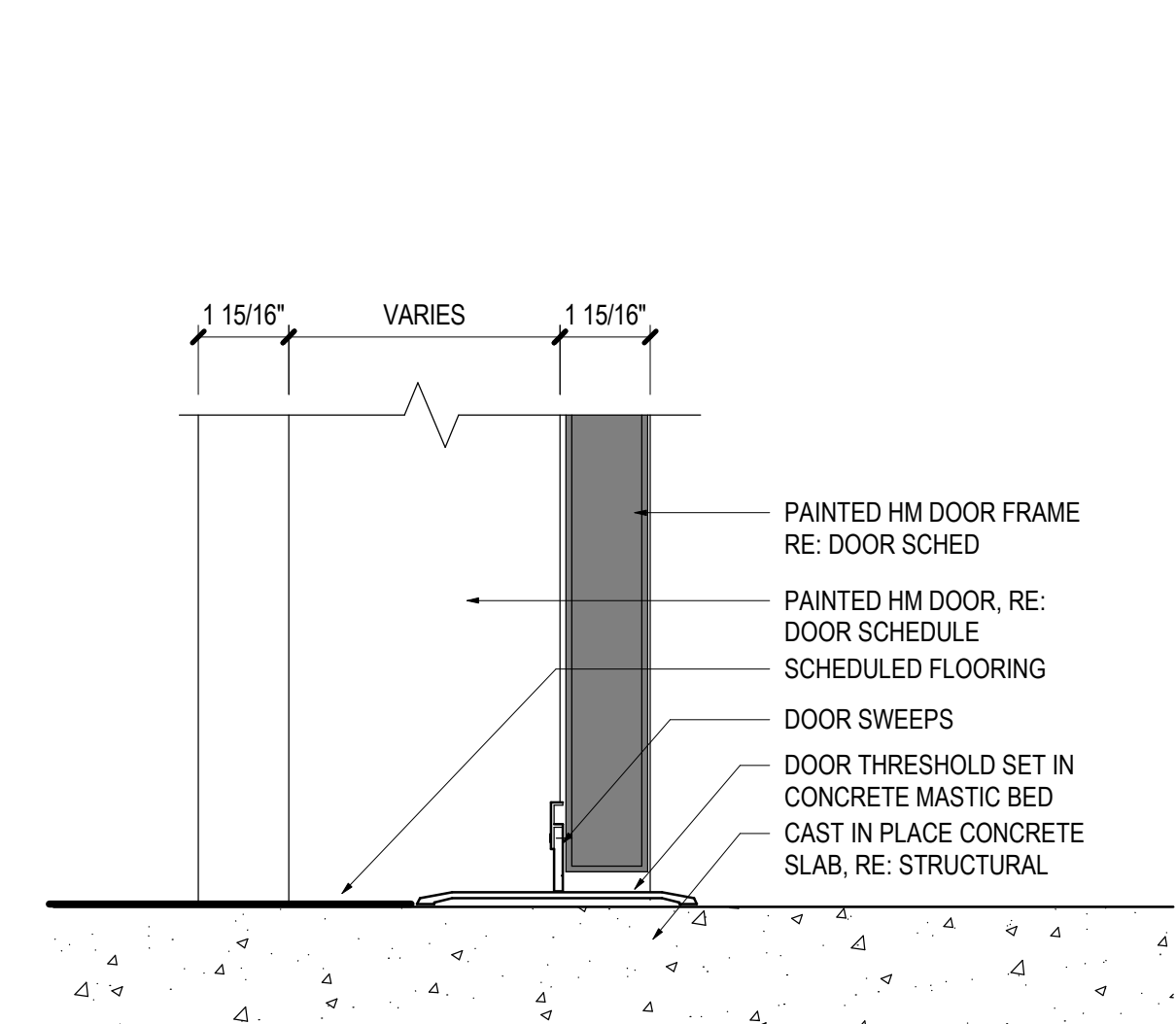
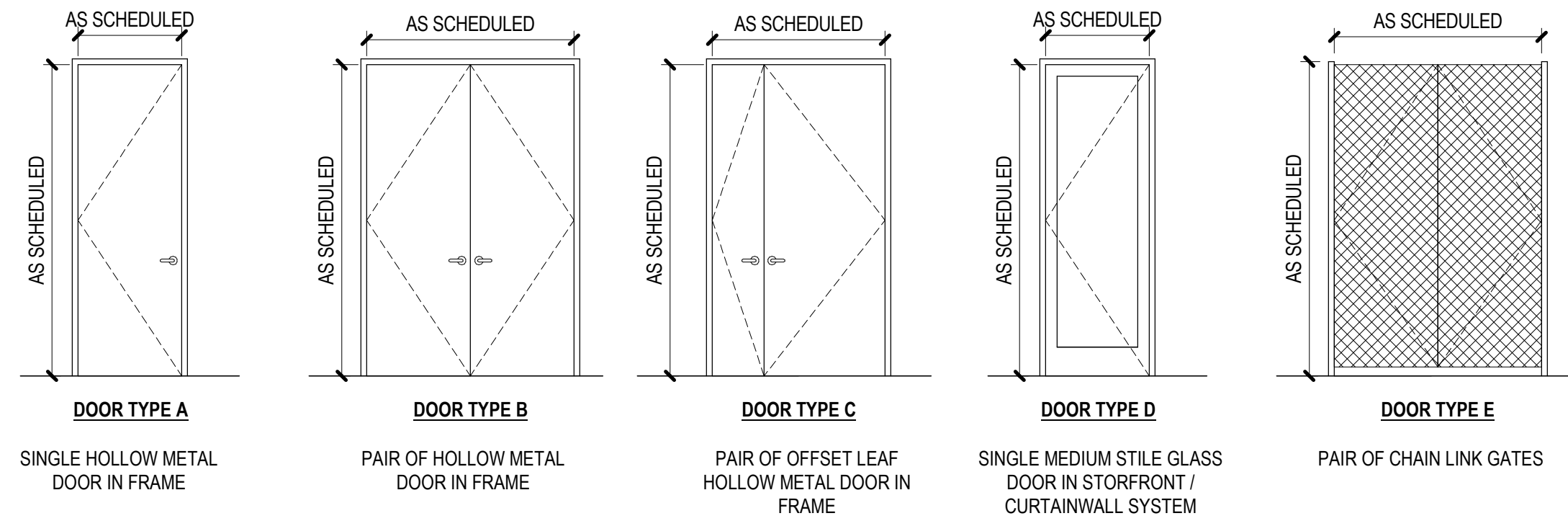
Door: GW300				
1	Continuous Hinge	661HD EPT	BLK	ST
*1	Power Transfer	EPT-12C		PR
*1	Exit Device	9700BB D MLR MS RB-Kwy	693	DM
1	Offset Pull	RM4190 48" x 14XHD	BPC	RO
*1	Operator/Switches	Specified in Section 087113		
1	Sweep	200 NGBL SMS-TEKS	NA	NA
1	Thermal Break Threshold	8426 GBL MS/EA	NA	NA
*1	Wire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

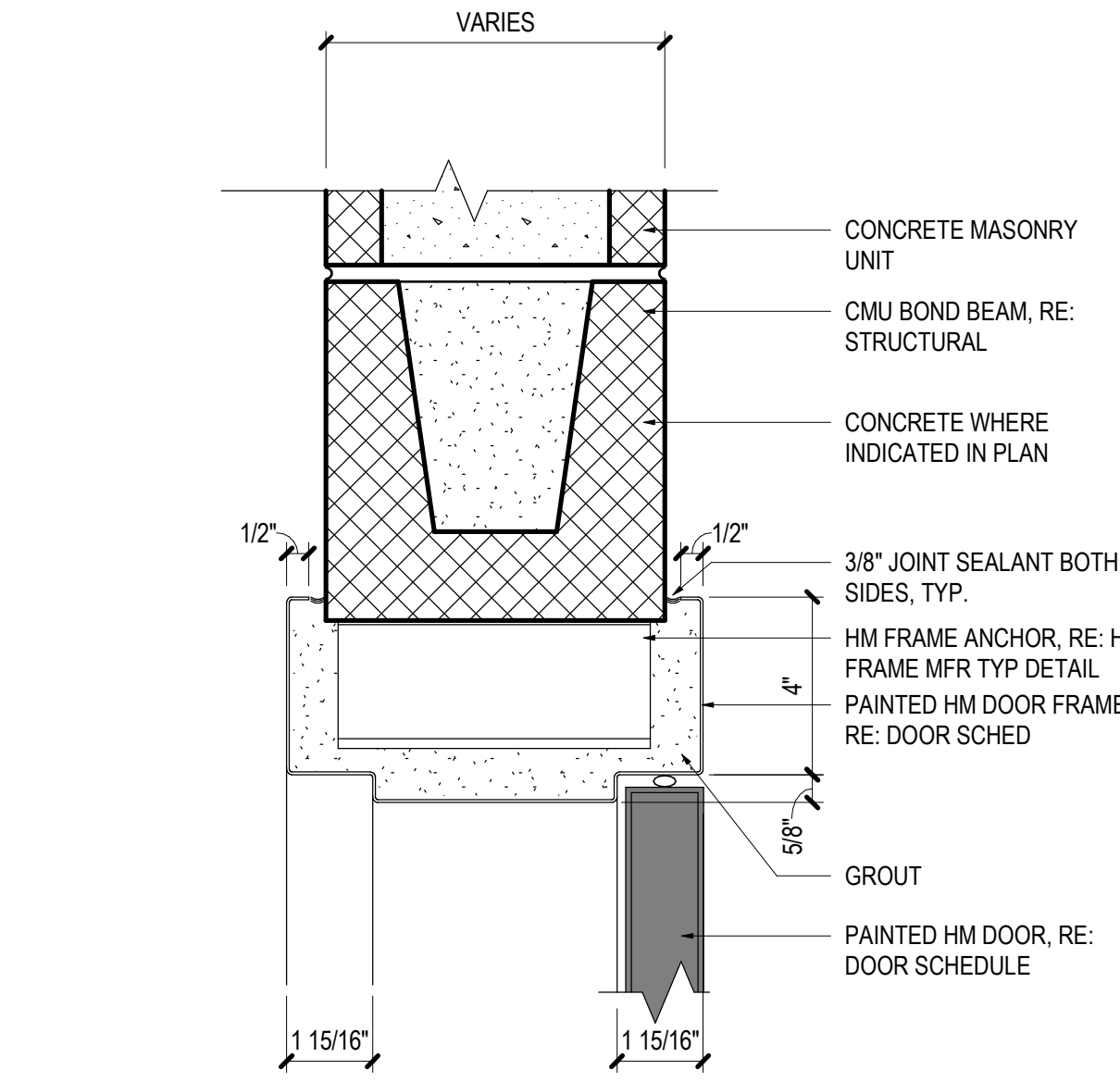
DOOR SCHEDULE

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	E	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	

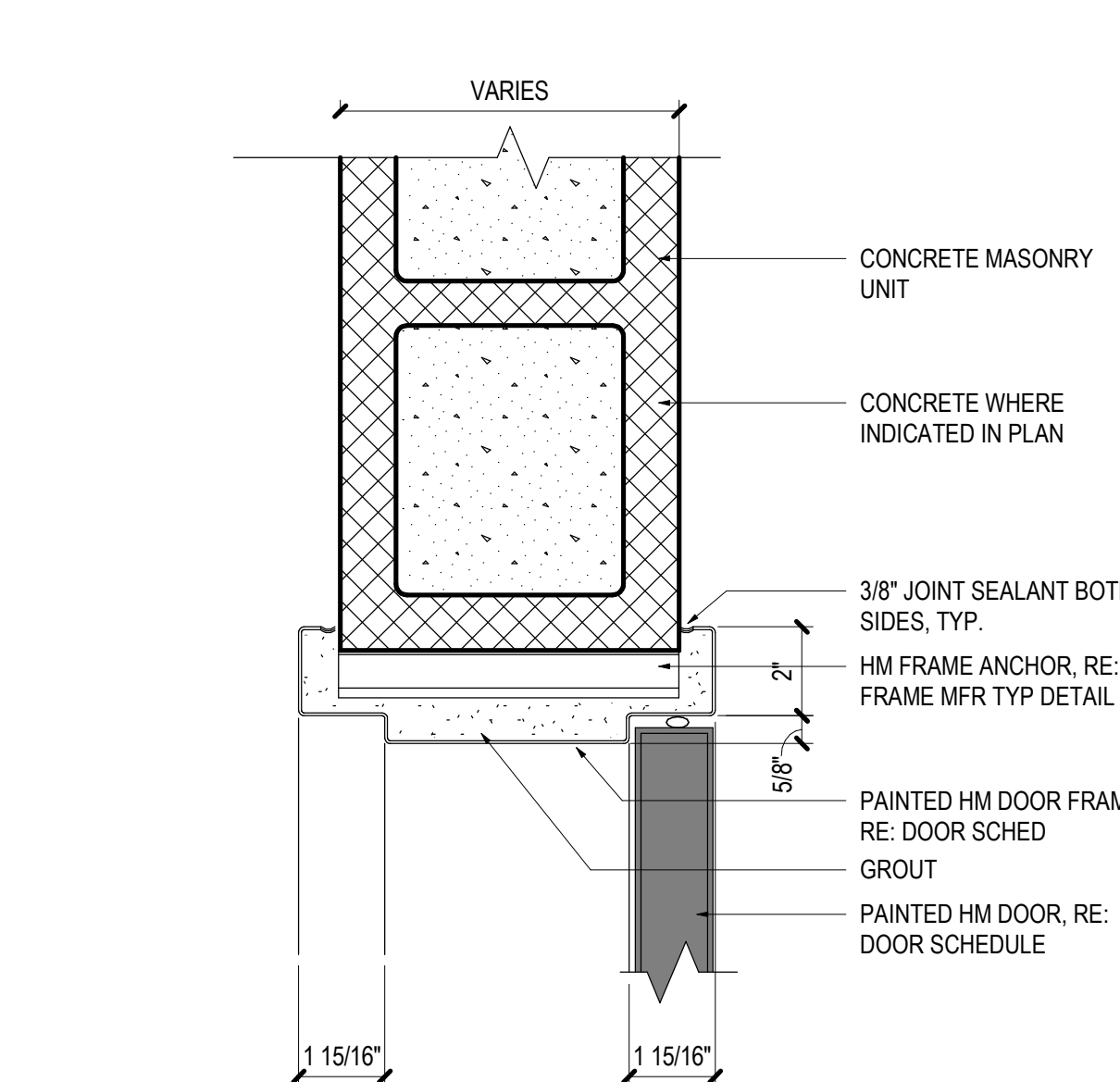
DOOR AND FRAME TYPES



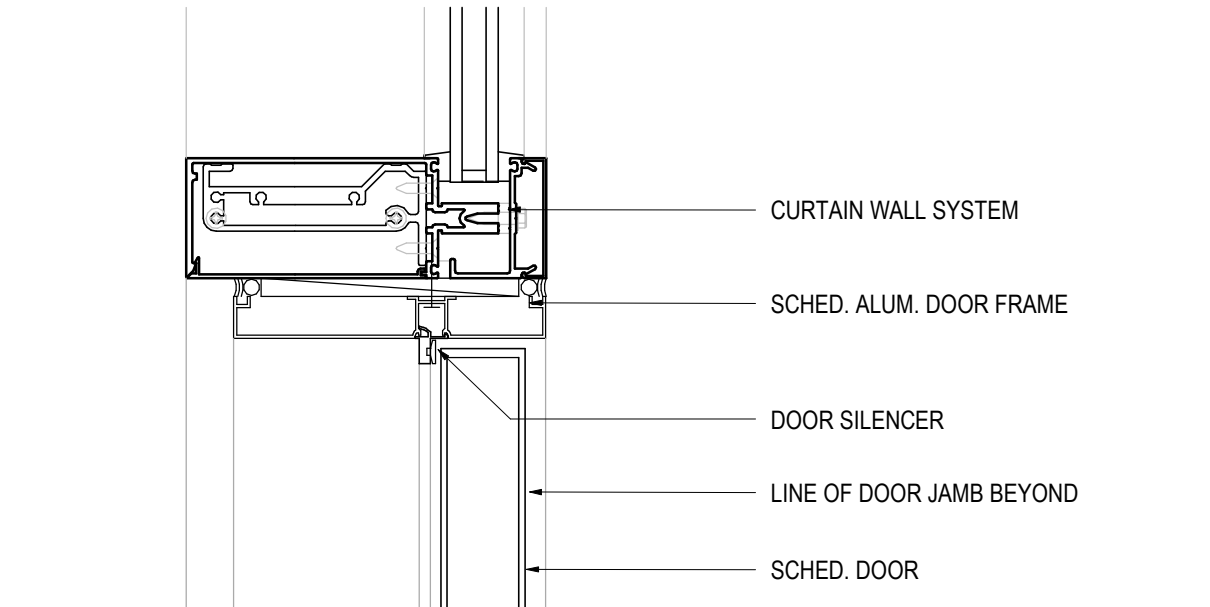
03 S-01  
SCALE: 3" = 1'-0"



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

**ALTERRA** east west partners  
MOUNTAIN COMPANY

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

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

Tel 303.595.8586  
Fax 303.825.6823

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

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 BID AND PERMIT

Seal / Signature

Project Name  
SSRC | BASE AREA IMPROVEMENTS

Project Number  
003.7835.000

Description  
DOOR SCHEDULE AND DETAILS

Scale  
As indicated



EXTERIOR ASSEMBLY TYPES

ASSEMBLY TYPE SUMMARY
EW1 - METAL STUD W/ EXTERIOR RIGID INSULATION EW2 - CONCRETE WALL EW3 - CLT WALLS EW4 - STL FRAME WALL [MECH YARD]
FL1 - CONCRETE SLAB ON METAL DECK FL2 - CONCRETE SLAB ON GRADE FL3 - CLT SLAB FL4 - CONCRETE SLAB ON EXISTING
RF1 - METAL DECK RF2 - CONCRETE SLAB ON METAL DECK RF3 - CLT SLAB RF4 - HEAVY TIMBER WITH HSS TUBES RF5 - EXISTING CAST IN PLACE CONCRETE SLAB RF6 - EXISTING POST TENSION CONCRETE SLAB
FN1 - CONCRETE WALL ON FOOTER TBD, RE STRUCT

ADDITIONAL NOTES

ABBREVIATIONS
R-VALUE: THERMAL RESISTANCE U-VALUE: THERMAL TRANSMITTANCE C-FACTOR: THERMAL CONDUCTANCE Re: R-VALUE OF THE SYSTEM Re: EFFECTIVE R-VALUE OF THE SYSTEM
*Re/ CALCULATED PER ASHRAE 90.1 TABLE A3.1.4
ASSEMBLY C-FACTOR FOR BELOW GRADE WALL PER ASHRAE 90.1 TABLE A4.2.1
FIRE-RESISTANT ASSEMBLIES
FOR TESTED ASSEMBLIES REFERENCED, SEE SHEETS G4.001-G4.005

ASSEMBLY COMPONENTS


AIR / WATER BARRIERS & RETARDERS	EXPANSION JOINTS
<div><div>AWB1</div><div>DESCRIPTION: FLUID APPLIED AIR AND WATER BARRIER DESCRIPTION (CONT): VAPOR PERMEABLE MANUFACTURER: DOW MODEL NAME: DEFENDAIR 200</div></div>	<div><div>EJ1</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO SLAB CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450 THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 2.25")</div></div>
<div><div>AWB2</div><div>DESCRIPTION: SELF ADHERED ROOFING UNDERLAYMENT MANUFACTURER: GCP TECHNOLOGIES MODEL NAME: GRACE ICE &amp; WATER SHIELD</div></div>	<div><div>EJ2</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO WALL CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450C THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 2.25")</div></div>
WATERPROOFING & DAMPPROOFING	<div><div>EJ3</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO WALL CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450C THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 3.5")</div></div>
<div><div>WP1</div><div>DESCRIPTION: COLD FLUID APPLIED WATERPROOFING WITH PROTECTION BOARD AND DRAIN MAT LOCATION: FOUNDATION</div></div>	
<div><div>WP2</div><div>DESCRIPTION: DAMPPROOFING</div></div>	
<div><div>WP3</div><div>DESCRIPTION: 215 MIL FABRIC REINFORCED, HOT FLUID APPLIED WATERPROOFING WITH INTEGRAL PROTECTION COURSE. TOP WITH COMPOSITE DRAINAGE MAT; MODEL NAME: HYDROTECH 6125 OR EQUIVALENT</div></div>	
<div><div>WP4</div><div>DESCRIPTION: CONCRETE PENETRATING 40% SILANE SEALER COLOR: CLEAR</div></div>	
<div><div>WP5</div><div>DESCRIPTION: WATERPROOFING MEMBRANE: HYDROTECH MM 6125-FR OR EQUIVALENT. DRAINAGE BOARD NOT REQUIRED.</div></div>	
<div><div>WP6</div><div>DESCRIPTION: BLIND SIDE WATERPROOFING MEMBRANE FOR SHOTCRETE FOUNDATION WALLS MANUFACTURER: GCP APPLIED TECHNOLOGIES MODEL NAME: PREPRUFE SCS ON WALLS</div></div>	
<div><div>WP7</div><div>DESCRIPTION: BLIND SIDE WATERPROOFING MEMBRANE FOR BELOW SLAB AND FOOTINGS MANUFACTURER: GCP APPLIED TECHNOLOGIES MODEL NAME: PREPRUFE 300R PLUS UNDER SLABS</div></div>	
VAPOR BARRIERS	
<div><div>VB1</div><div>DESCRIPTION: UNDER SLAB VAPOR BARRIER MANUFACTURER: STEGO WRAP OR EQUIVALENT THICKNESS: RE: SPECIFICATION</div></div>	
<div><div>VB2</div><div>DESCRIPTION: 6MM POLYETHYLENE SHEET VAPOR RETARDER</div></div>	
<div><div>VB3</div><div>DESCRIPTION: SELF-ADHERED, FIRE-RETARDANT VAPOR RETARDER</div></div>	
INSULATION	
<div><div>INS1</div><div>DESCRIPTION: MINERAL BOARD (ROCK WOOL) INSULATION DESCRIPTION (CONT): R-4.3INCH MIN. MANUFACTURER: THERMAFIBER MODEL NAME: RAINBARRIER THICKNESS: REFER TO ASSEMBLY</div></div>	
<div><div>INS2</div><div>DESCRIPTION: CLOSED CELL SPRAY-FOAM INSULATION DESCRIPTION (CONT): WITH THERMAL BARRIER PER IRC 2603.4, NO-BURN FIRE RETARDANT COATING OR EQUIVALENT MANUFACTURER: BASIS OF DESIGN DOW STYROFOAM BRAND SPF CM2030; BASIS OF DESIGN: "INTERNATIONAL FIREPROOF TECHNOLOGY, INC DC 315" THICKNESS: REFER TO ASSEMBLY, R-6INCH MIN</div></div>	
<div><div>INS3</div><div>DESCRIPTION: BATT INSULATION - FACED DESCRIPTION (CONT): ER=7.10, PER TABLE A8.2-2 MANUFACTURER: REFER TO SPECIFICATIONS THICKNESS: REFER TO ASSEMBLY, TO MEET R-3.17INCH</div></div>	
<div><div>INS4</div><div>DESCRIPTION: BATT INSULATION - UNFACED DESCRIPTION (CONT): ER=7.10, PER TABLE A9.2-2 MANUFACTURER: REFER TO SPECIFICATIONS THICKNESS: REFER TO ASSEMBLY, TO MEET R-3.17INCH</div></div>	
<div><div>INS5</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION W/ INTEGRAL DRAINAGE BOARD MANUFACTURER: DOW STYROFOAM HIGHLOAD 60 OR EQUAL THICKNESS: REFER TO ASSEMBLY, R-5INCH MIN. NOTE: HIGH COMPRESSIVE STRENGTH (60PSI)</div></div>	
<div><div>INS6</div><div>DESCRIPTION: POLYISOCYANURATE INSULATION THICKNESS: REFER TO ASSEMBLY, R-7.2INCH MIN</div></div>	
<div><div>INS7</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION MANUFACTURER: DOW STYROFOAM - ROOFMATE AND PLAZAMATE THICKNESS: REFER TO ASSEMBLY, R-5INCH MIN NOTE: HIGH COMPRESSIVE STRENGTH (60 PSI)</div></div>	
<div><div>INS8</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION DESCRIPTION (CONT): WITH SUFFICIENT BEARING CAPACITY TO SUPPORT VEHICLES MANUFACTURER: DOW STYROFOAM HIGHLOAD 60 OR EQUAL THICKNESS: REFER TO ASSEMBLY, R-5INCH MIN NOTE: HIGH COMPRESSIVE STRENGTH (60PSI)</div></div>	
<div><div>INS9</div><div>DESCRIPTION: UNFACED EXPANDED POLYSTYRENE RIGID INSULATION DESCRIPTION (CONT): WITH SUFFICIENT BEARING CAPACITY TO SUPPORT PAVERS MANUFACTURER: CARLISLE INSULFOAM GEOFOAM THICKNESS: REFER TO DRAWINGS</div></div>	

EXTERIOR FINISH LEGEND

<u>GUARDRAIL SYSTEM</u>	
GR1	DESCRIPTION: CUSTOM GUARDRAIL SYSTEM DESCRIPTION (CONT): 42" PRE-FINISHED STEEL RAILING FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2
GR2	DESCRIPTION: CUSTOM GUARDRAIL SYSTEM DESCRIPTION (CONT): PRE-FINISHED STEEL RAILING. 2" X 1/2" STEEL FLAT BAR. EDGES RADIUS TO BE 0.01 INCH FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2 LOCATION: MAIN STAIR
GR3	DESCRIPTION: GUARDRAIL SYSTEM TO MATCH EXISTING WALL AND TOP RAIL CONDITION DESCRIPTION (CONT): GC TO SALVAGE EXISTING STONE CLADDING TO BE REMOVED AND REUSE AT BRIDGE IF IN ACCEPTABLE CONDITION. VERIFY WITH ARCHITECT. GC TO PROVIDE NEW STONE CLADDING TO MATCH EXISTING IF NOT ACCEPTABLE. HEIGHT: 42" MIN FINISH: MATCH MATERIALS AND FINISHES OF EXISTING BRIDGE GUARDRAIL AND WALL LOCATION: GOLD WALK BRIDGE
GR4	DESCRIPTION: GUARDRAIL SYSTEM TO MATCH EXISTING GUARDRAIL ALONG GRID LINE 5 DESCRIPTION (CONT): SAWCUT EXISTING CONCRETE TO NEW FLOOR FINISH ELEVATION. GC TO SALVAGE EXISTING RAILING TO BE REMOVED AND REUSE AT THIS LOCATION IF IN ACCEPTABLE CONDITION. VERIFY WITH ARCHITECT. GC TO PROVIDE NEW RAILING TO MATCH EXISTING IF NOT ACCEPTABLE. HEIGHT: 42" MIN FINISH: MATCH MATERIALS AND FINISHES OF EXISTING GUARDRAIL ALONG GRID LINE 5
GR5	DESCRIPTION: 1 1/2" PIPE GUARDRAIL SYSTEM DESCRIPTION (CONT): PROVIDE 1 1/2" HANDRAIL WHERE APPLICABLE FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2 LOCATION: STORAGE ROOM

EXTERIOR SYSTEM & FINISH LEGEND

ASSEMBLY TAG INFORMATION & DESCRIPTION	WALL FINISH MATERIAL TAG
<div><div><div>XX1-XX1</div><div>ASSEMBLY STRUCTURE TYPE (SEE DETAIL DRAWINGS)  "FL" - FLOOR "EW" - EXTERIOR WALL "RF" - ROOF "FN" - FOUNDATION BELOW GRADE  VARIANTS OF ASSEMBLY STRUCTURE TYPE  FINISH SYSTEM TYPE (SEE LEGEND BELOW FOR DESCRIPTIONS)  VARIANT OF FINISH SYSTEM TYPE (SEE LEGEND BELOW FOR DESCRIPTIONS)</div></div><div><div>EW6-MT3</div><div>EXAMPLE TAG EXTERIOR WALL ASSEMBLY 6TH TYPE OF EXTERIOR WALL ASSEMBLY IN PROJECT EXTERIOR FINISH MATERIAL OF WALL = METAL 3RD TYPE OF METAL FINISH IN PROJECT</div></div></div>	<div>XX1</div> <div>DESCRIPTION: MATERIAL TYPE DESCRIPTION MANUFACTURER: MATERIAL TYPE MFR MODEL NAME: MATERIAL NAME</div>
GENERAL NOTES	
1. NOT ALL ASSEMBLIES AND MATERIALS LISTED ARE USED IN PROJECT. REFER TO DRAWINGS FOR APPLICABLE MATERIALS.	
EXTERIOR FINISH LEGEND	
STONE	
ST1	DESCRIPTION: FULL DEPTH STONE MASONRY VENEER DESCRIPTION (CONT): 3" - 4" NOMINAL NATURAL STONE CLADDING SUPPLIER: GALLEGOS STONE MODEL NAME: MOUNTAIN ASH GRANITE NOTE: DRY STACK LEDGE
ST2	DESCRIPTION: FULL DEPTH STONE MASONRY COPING CAP DESCRIPTION (CONT): 3" NOMINAL NATURAL STONE CAP, SEE DRAWINGS FOR LENGTHS AND WIDTHS SUPPLIER: GALLEGOS STONE MODEL NAME: TENNESSEE BLUE/ GRAY CAP LIMESTONE
WOOD	
WD1	DESCRIPTION: NATURAL WOOD SIDING DESCRIPTION (CONT): 4" VERTICAL BOARD SPECIES: WESTERN RED CEDAR STAIN: SIKKENS CEDAR 1 & 23 STAIN OR APPROVED ALTERNATE NOTE: STK SELECT KNOTTY GRADE D @ BETTER CLEAR
WD2	DESCRIPTION: STRUCTURAL CLT [CROSS LAMINATED TIMBER] SLAB MANUFACTURER: LAMWOOD FINISH: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE NOTE: SLAB THICKNESS PER STRUCTURAL CONDITION
WD3	DESCRIPTION: STRUCTURAL GLULAM BEAM/ COLUMN DESCRIPTION (CONT): DOUGLAS FIR, ARCHITECTURAL GRADE, PRESSURE TREATED MANUFACTURER: LAMWOOD STAIN: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE NOTE: SIZE PER STRUCT
WD4	DESCRIPTION: NATURAL WOOD SIDING DESCRIPTION (CONT): 4" TONGUE AND GROOVE SPECIES: DOUGLAS FIR, ARCHITECTURAL GRADE, PRESSURE TREATED STAIN: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE
WD5	DESCRIPTION: T1-11 WOOD SIDING DESCRIPTION (CONT): 3/4" FIRE RATED FINISH: PAINT: MATCH ADJACENT
ARCHITECTURAL LOUVER	
LV1	DESCRIPTION: PREFINISHED ARCHTECTURAL LOUVER DESCRIPTION (CONT): BASIS OF DESIGN, CS SPECIALTIES THINLINE RS-4700 COLOR: CUSTOM COLOR TO MATCH PT2
EXTERIOR PAINT	
PT1	DESCRIPTION: EXTERIOR PAINT FINISH COLOR: CUSTOM CHARCOAL GRAY TO MATCH ARCHITECTS SAMPLE
PT2	DESCRIPTION: EXTERIOR PAINT FINISH MODEL NUMBER: SW6255 COLOR: TRICORN BLACK
PT3	DESCRIPTION: EXTERIOR PAINT FINISH COLOR: CUSTOM GRAY TO MATCH ARCHITECTS SAMPLE
CEMENT PLASTER	
CP1	DESCRIPTION: THREE COAT STUCCO SYSTEM WITH ACRYLIC FINISH MANUFACTURER: PAREX OR APPROVED EQUAL COLOR: TO BE SELECTED FROM FULL RANGE OF MANUFACTURERS STANDARD COLORS
GLAZING	
GL1	DESCRIPTION: INSULATED GLAZING UNIT DESCRIPTION (CONT): CLEAR GLASS, AIR FILLED MANUFACTURER: VITRO MODEL NAME: SOLARBAN 70 THICKNESS: 1" IGU + 1/4" / 1/2" AIR SPACE / 1/4" U VALUE: 0.29 SHGC: 0.45 SEW ORIENTATIONS
GL2	DESCRIPTION: LAMINATED GLASS MANUFACTURER: VIRACON MODEL NAME: 13/16" ULTRACLEAR LAMINATED GLASS THICKNESS: 13/16" OA (3/8" GLASS, 0.050" CLEAR PVB, 3/8" GLASS)
METAL	
MT1	DESCRIPTION: A606 WEATHERING STEEL DESCRIPTION (CONT): CORTEN ACCENT PANEL MANUFACTURER: CMG GROUP
MT2	DESCRIPTION: BONDERIZED STANDING SEAM MANUFACTURER: BERRIDGE METAL MODEL NAME: CEE-LOCK STANDING SEAM PANEL SYSTEM FINISH: RAW BONDERIZED FINISH SIZE: 16 1/2" COVERAGE PANEL W/ 1 1/2" HT SEAM
MT3	DESCRIPTION: PREFINISHED AND PREFORMED METAL MANUFACTURER: TBD FINISH: CUSTOM COLOR TO MATCH PT1 SIZE: 18 GA MIN.
MT4	DESCRIPTION: STEEL PLATE DESCRIPTION (CONT): 1/2" COLD ROLLED STL PLATE W/ BLACKENED FINISH, FACTORY APPLIED MANUFACTURER: TBD SIZE: PER ELEVATION/PLAN LOCATION: PER ELEVATION/PLAN




ALERRA east west partners  
MOUNTAIN COMPANY

2305 Mount Werner Circle  
Steamboat Springs, CO 80487


Gensler

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


Tel 303.595.8586  
Fax 303.825.6823




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



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


DateDescription

-

2021.05.19

BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name05.19.2021

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

EXTERIOR MATERIALS SCHEDULE

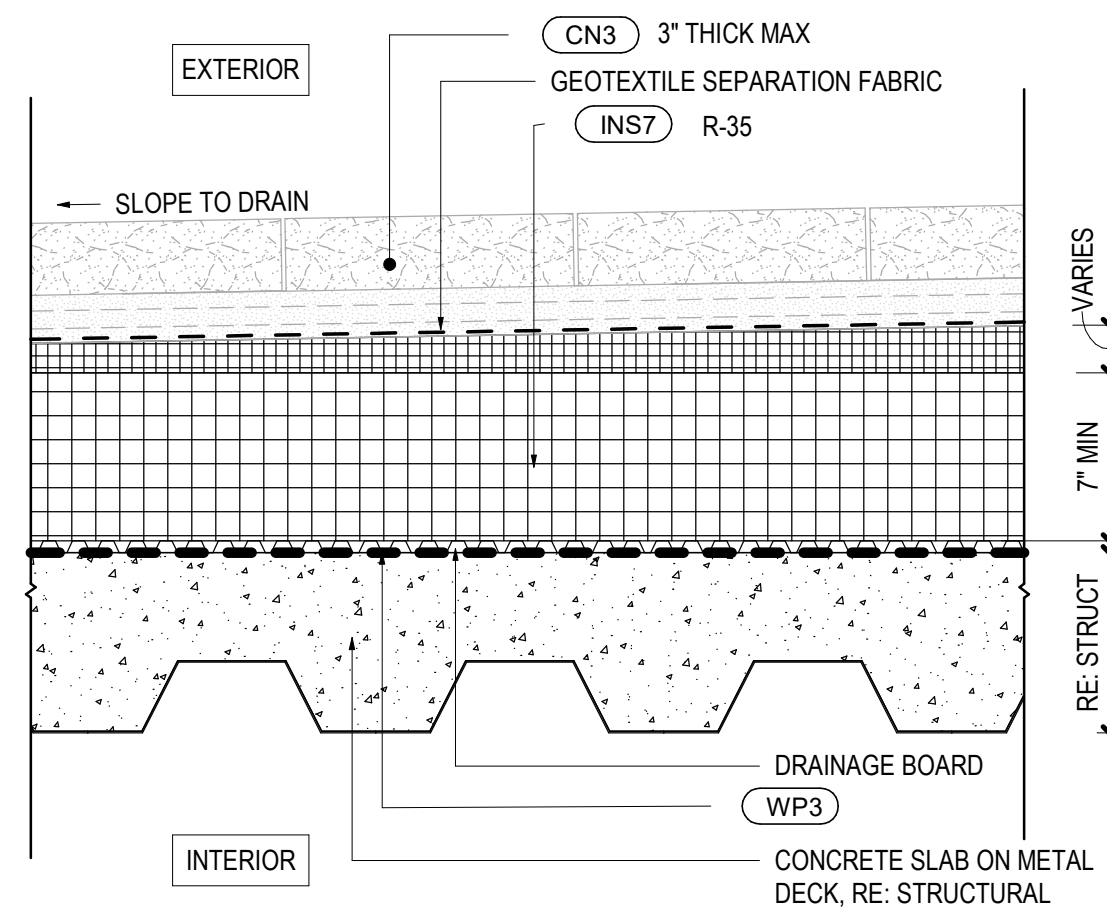
Scale

As indicated

1B-G8.001

© 2021 Gensler





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

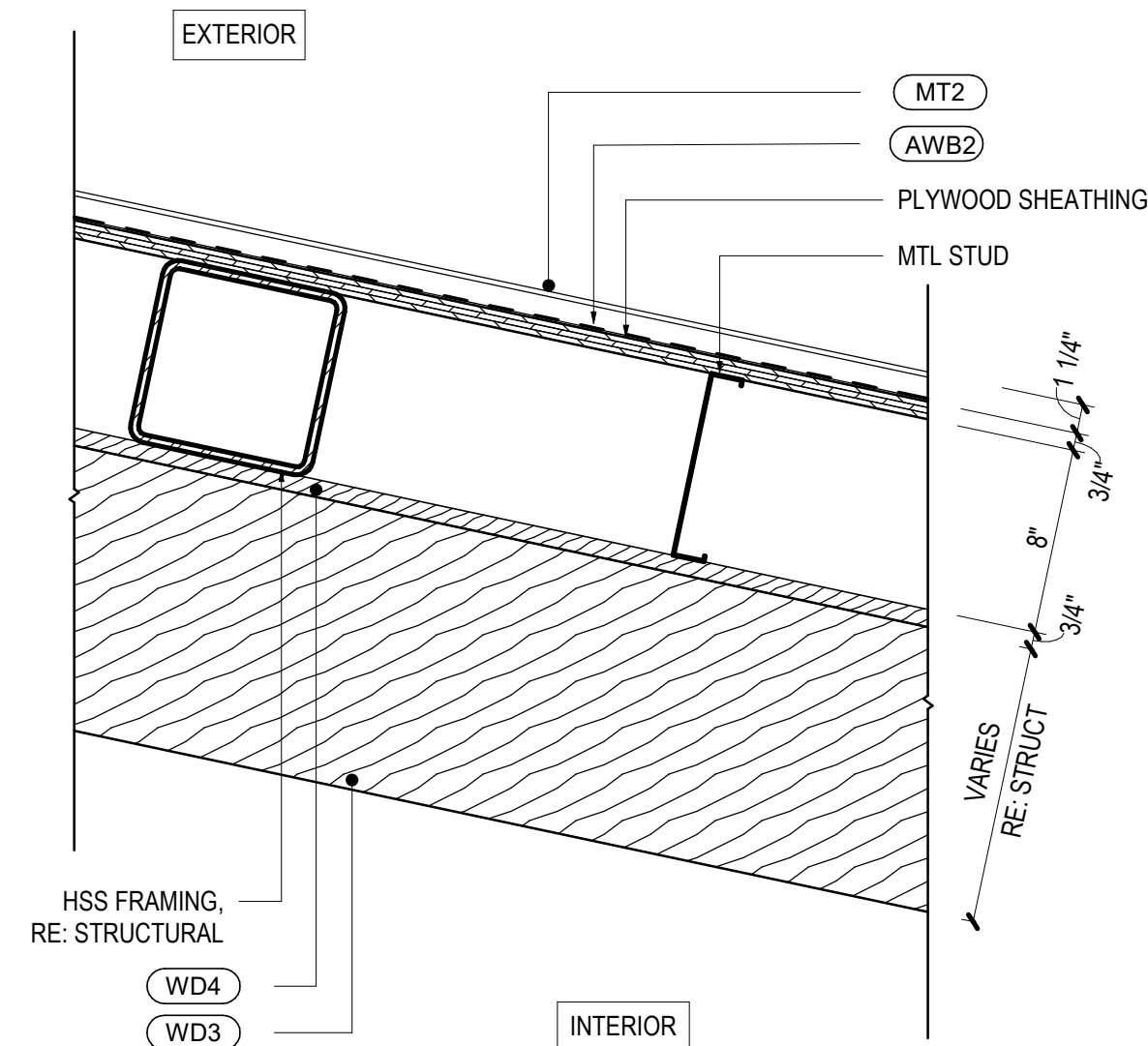
17 NOT USED

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

09 NOT USED

05 NOT USED

01 NOT USED



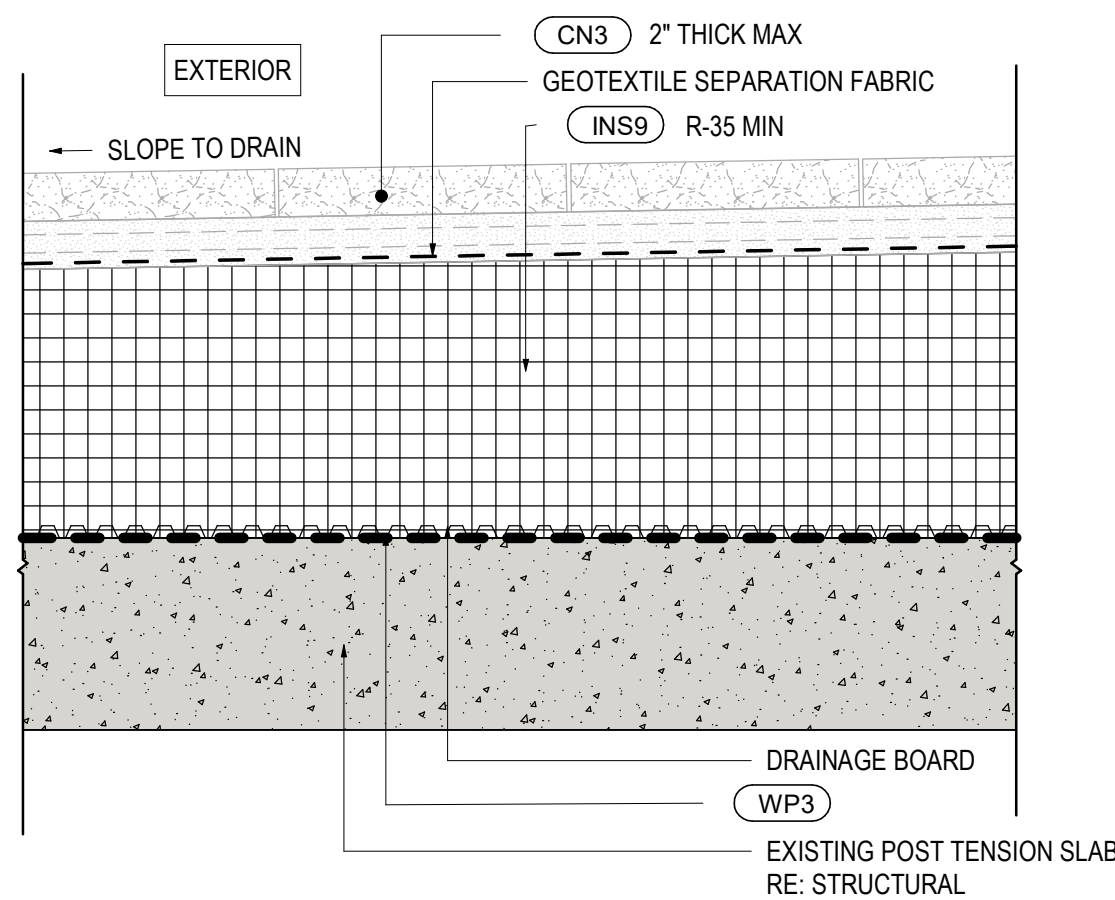
18 NOT USED

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

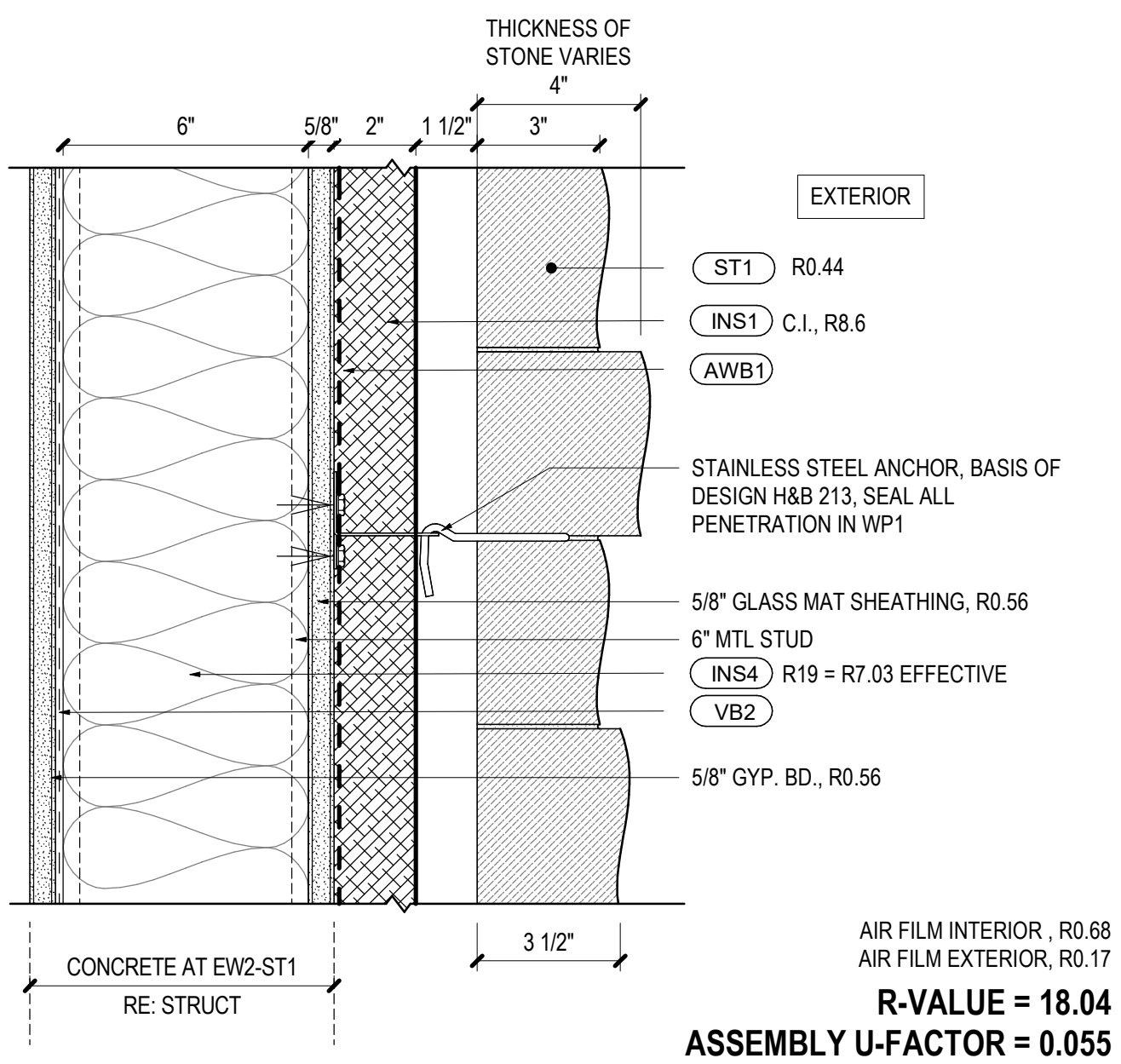
19 RF6-CN3 - ROOF AT GOLD WALK  
SCALE: 1 1/2" = 1'-0"

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 BID AND PERMIT

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA  
IMPROVEMENTS

Project Number

003.7835.000

Description

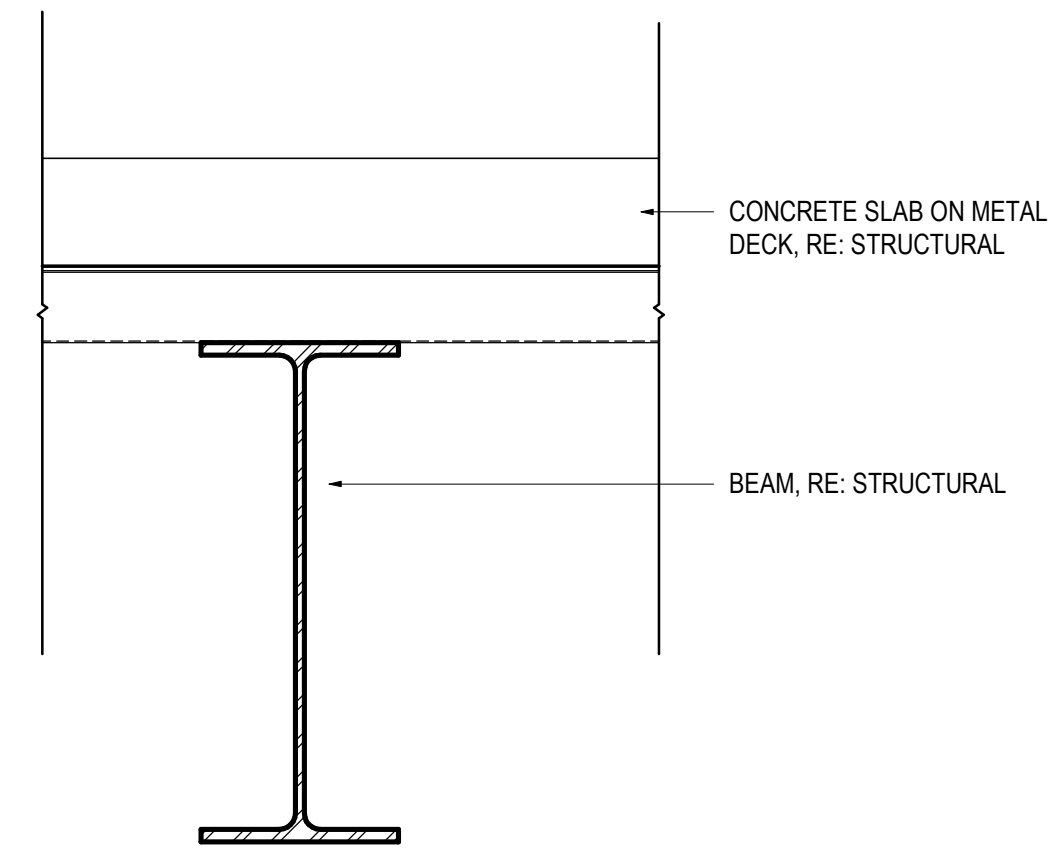
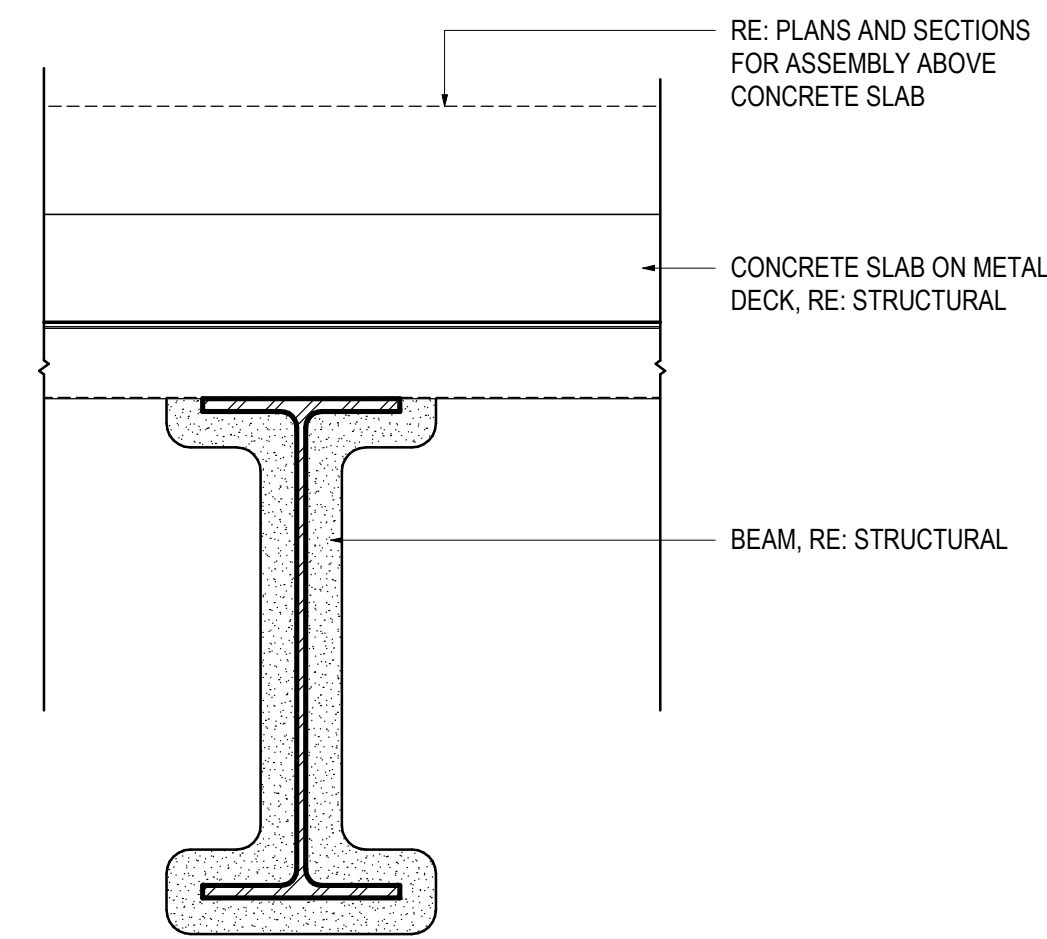
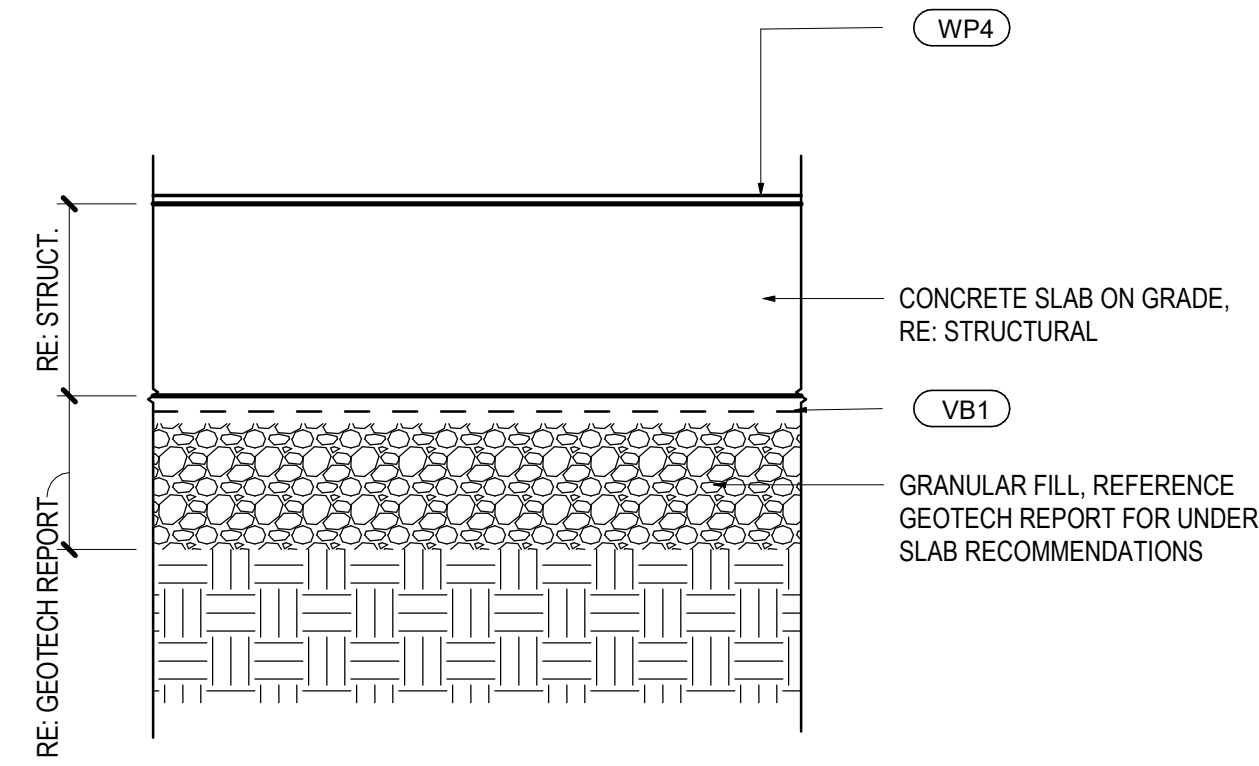
EXTERIOR MATERIALS SCHEDULE

Scale

As indicated

**1B-G8.002**





UL: D902 NOTE: 2HR RATED AT GOLD WALK

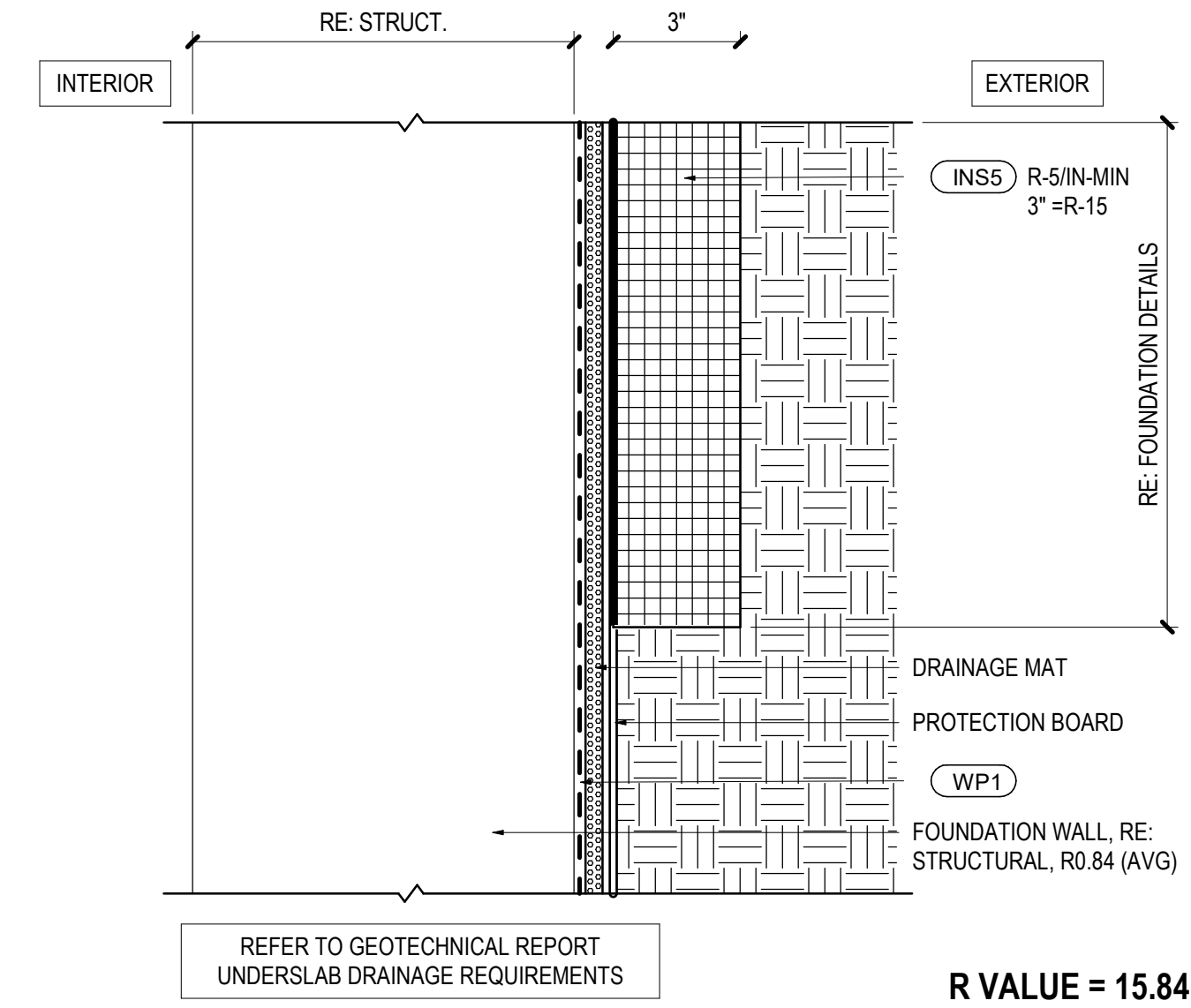
17 NOT USED

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**

ALTERRA east west partners  
MOUNTAIN COMPANY

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

**Gensler**

1225 17th Street  
Suite 150  
Denver, CO 80202  
United States  
Tel 303.595.8585  
Fax 303.625.6823

**LANDMARK**  
CONSULTANTS, P.C.

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

**DESIGNWORKSHOP**

1390 Lawrence Street  
Suite 100  
Denver, CO 80204  
Tel 303.623.5186

**MARTIN/MARTIN**  
CONSULTING ENGINEERS

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 BID AND PERMIT

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**