STEAMBOAT SKI & RESORT CORPORATION

Steamboat Base Village Redevelopment

2305 Mount Werner Circle
Steamboat Springs, CO 80487

BID PACKAGE 1B - IT ROOM PERMIT & BID PACKAGE

02/05/2021

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.

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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Jon C. Gambrill

Digitally signed by Jon C. Gambrill
DN: C=US, E=Jon_Gambrill@gensler.com, O=Gensler, CN=Jon C. Gambrill
Date: 2021.02.08 08:39:39 MST

02.08.2021

STATE OF COLORADO
JON CHARLES GAMBRILL
203617
LICENSED ARCHITECT

Seal / Signature

NOT FOR CONSTRUCTION

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
COVER

Scale
NOT TO SCALE

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.
5. 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.

DEMOLITION NOTES

1. REMOVE DESIGNATED PARTITIONS, CEILINGS COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
2. REMOVE EXISTING WORK AS REQUIRED TO ACCOMODATE 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.

POWER & COMMUNICATION NOTES

1. PRIOR TO CORING SLAB FOR POWER/COMM POKE-THROUGH DEVICES, COORDINATE LOCATIONS WITH OWNER AND/OR OWNER'S 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.

PROJECT TEAM

OWNER:	ALTERRA MTN CO REAL ESTATE DEVELOPMENT, INC 3501 WAZEE STREET, SUITE 400 DENVER, CO 80216 ATTN: MIKE SCHMIDT
CIVIL ENGINEER:	LANDMARK CONSULTANTS, INC. 141 9TH STREET STEAMBOAT SPRINGS, CO 80477 (970) 871-9494
LANDSCAPE ARCHITECT:	DESIGN WORKSHOP 1390 LAWRENCE STREET, SUITE 100 DENVER, CO 80204 (303) 623-5186
ARCHITECT:	GENSLER 1225 17TH STREET, SUITE 150 DENVER, CO 80202 (303) 595-8585
STRUCTURAL ENGINEER:	MARTIN / MARTIN CONSULTING ENGINEERS 12499 WEST COLFAX AVE LAKEWOOD, CO 80215 (303) 431-6100
MECHANICAL ENGINEER:	ME-ENGINEERS 14143 DENVER WEST PARKWAY, SUITE 300 GOLDEN, CO 80401 (303) 421-6655
PLUMBING ENGINEER:	ME-ENGINEERS 14143 DENVER WEST PARKWAY, SUITE 300 GOLDEN, CO 80401 (303) 421-6655
ELECTRICAL ENGINEER:	ME-ENGINEERS 14143 DENVER WEST PARKWAY, SUITE 300 GOLDEN, CO 80401 (303) 421-6655

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 OWNER'S 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.

PROJECT INFORMATION

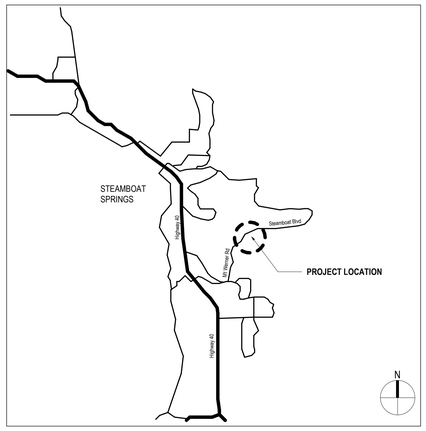
FOLLOWING ARE THE PLANS OUTLINING THE SCOPE OF WORK REQUIRED FOR ---
WORK TO INCLUDE CONSTRUCTING A NEW DATA / IT SERVER ROOM AND EXTERIOR GENERATOR AND MECHANICAL EQUIPMENT SCREENED YARD. WORK TO INCLUDE STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, ARCHITECTURE, ACCESS CONTROL, AND TELEDATA SCOPE.

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.

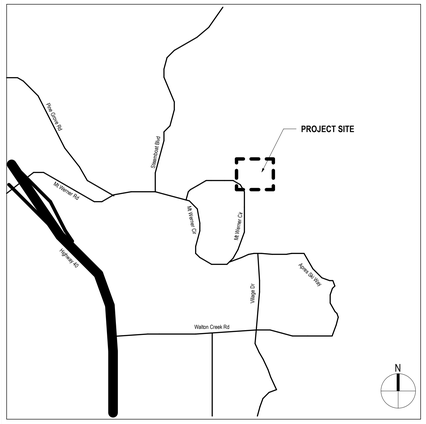
THE DRAWINGS ARE ARRANGED IN GENERAL TO SPECIFIC ORDER, FOLLOWING A TOP TO BOTTOM, RIGHT TO LEFT FORMAT. CONTRACTORS ARE ADVISED TO READ AND FAMILIARIZE THEMSELVES WITH THE INFORMATION IN THE PROJECT MANUAL, AS WELL AS THE GENERAL LEGENDS CONTAINED IN THE G SERIES OF DRAWINGS, PRIOR TO REVIEW OF THE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

BUILDING ADDRESS:	2305 MT. WERNER CIRCLE STEAMBOAT SPRINGS, CO 80487
BUILDING JURISDICTION:	ROUTT COUNTY, STEAMBOAT SPRINGS CO
APPLICABLE CODES:	2019 DENVER AMENDMENTS (IBCA, IFCA, IMCA, IPCA, etc) 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2009 ICC A117.1, ACCESSIBILITY REQUIREMENTS 2010 ADA ACCESSIBILITY GUIDELINES ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS 2013 USEABLE BUILDING & FACILITIES CODE
OCCUPANCY TYPE:	B-BUSINESS, S-2 STORAGE
CONSTRUCTION TYPE:	TYPE II-A
FIRE ALARM SYSTEM:	FIRE ALARM AND SMOKE DETECTION SYSTEM PER IBC 907.2 & NFPA 72
FIRE SUPPRESSION:	FIRE RESISTIVE, (100% SPRINKLERED)

VICINITY MAP



LOCATION MAP



DRAWING INDEX

Sheet Number	Sheet Name	Current Revision to IFC (If applicable) Latest	Description	Date
01 - GENERAL				
BP1B-G0.000	COVER	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-G0.100	PROJECT INFORMATION	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-G0.200	SYMBOLS & ABBREVIATIONS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-G0.202	SYMBOLS - POWER & COMMUNICATION	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-G0.501	EGRESS & OCCUPANCY PLAN - LEVEL 01 (PLAZA LEVEL)	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-G0.502	EGRESS & OCCUPANCY PLAN - LEVEL 02	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
02 - CIVIL				
BP1B-V1.001	EXISTING PROPERTY EXHIBIT	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-V1.002	EXISTING PROPERTY EXHIBIT	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-CSMP	CONSTRUCTION SITE MANAGEMENT PLAN	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
03 - LANDSCAPE				
BP1B-L0.001	LANDSCAPE PLAN, ELEVATION, AND DETAIL	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
04 - STRUCTURAL				
BP1B-S0.01	GENERAL NOTES	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-S0.02	GENERAL NOTES	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-S0.03	NEW IT ROOM QUALITY ASSURANCE	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-S1.01	NEW IT ROOM FRAMING PLANS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-S1.02	NEW IT ROOM DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-S1.03	NEW IT ROOM DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
05 - ARCHITECTURE				
BP1B-A0.200	DOOR SCHEDULE AND DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A0.400	PARTITION, MATERIAL, AND ASSEMBLY SCHEDULES	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A1.000	SITE PLAN	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A1.100	COMPOSITE PLAN - LOWER LEVEL B1	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A1.101	COMPOSITE PLAN - LEVEL 01	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A1.102	COMPOSITE PLAN - LEVEL 02	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A1.201	CONSTRUCTION PLAN - LEVEL 01	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A3.301	ENLARGED PLANS AND ELEVATION	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-A4.000	SECTIONS / DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
08 - MECHANICAL				
BP1B-M0.000	MECHANICAL LEGEND	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-M0.002	MECHANICAL PIPING DIAGRAM	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-M0.003	MECHANICAL CONTROLS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-M1.000	MECHANICAL GENERAL NOTES			
BP1B-M1.201	IT ROOM - MECHANICAL PLAN	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-M8.000	MECHANICAL DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-MEP0.000	MECHANICAL SCHEDULES	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
10 - ELECTRICAL				
BP1B-E0.000	ELECTRICAL LEGEND	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-E1.000	ELECTRICAL ON-LINES AND PANEL SCHEDULES	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-E1.201	IT ROOM - ELECTRICAL PLAN	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-E1.301	IT ROOM - LIGHTING PLAN	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-E4.000	ELECTRICAL ENLARGED PLANS AND SECTIONS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-E8.000	ELECTRICAL AND LIGHTING DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-E8.001	ELECTRICAL AND LIGHTING DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
16 - TECHNOLOGY				
BP1B-T0.000	TECHNOLOGY LEGEND	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-T1.000	TECHNOLOGY COMPOSITE PLAN - LOWER LEVEL B1	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-T1.101	TECHNOLOGY COMPOSITE PLAN - LOWER 01	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-T1.201	IT ROOM - TECHNOLOY PLAN	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-T3.301	TECHNOLOGY ENLARGED PLANS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05
BP1B-T8.000	TECHNOLOGY DETAILS	1	BP1B - IT ROOM PERMIT & BID PACKAGE	2021/02/05

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
JOSEPH CHARLES GUERRERO
203617
LICENSED ARCHITECT
02.08.2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
PROJECT INFORMATION

Scale
NOT TO SCALE

BP1B-G0.100

ABBREVIATIONS

W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE (STRUCTURAL STEEL)
WH	WATER HEATER
WLD	WELD
WM	WIRE MESH
WP	WATERPROOFING
WPT	WORKING POINT
WR	WATER RESISTANT OR WATER REPELLANT
WRSTP	WEATHERSTRIPPING
WT	WEIGHT
WTRPRF	WATERPROOFING
WWF	WELDED WIRE FABRIC
X	
X HVY	EXTRA HEAVY
X STR	EXTRA STRONG
XH	EXTRA HEAVY
Y	
YD	YARD
YR	YEAR

RH	RIGHT HAND
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPT	REPEAT (LIKE "DITTO")
RR	RAILROAD
S	
S4S	SURFACED 4 SIDES
SALV	SALVAGE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCR	SCRIBE
SCRN	SCREEN
SCUP	SCUPPER
SCWD	SOLID CORE WOOD DOOR
SE	STRUCTURAL ENGINEER
SECT	SECTION
SECUR	SECURITY
SECY	SECRETARY
SED	SEWAGE EJECTOR DISCHARGE
SEL	SELECT
SERV	SERVICE
SEV	SEWAGE EJECTOR VENT
SF	SQUARE FEET
SF	SQUARE FOOT
SFGL	SAFETY GLASS
SG	SINGLE
SGG	STRUCTURAL GLAZING GASKET
SGL	SINGLE
SGS	SILICONE GLAZING SEALANT
SHORG	SHORING
SHT	SHEET
SHTHG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SK	SINK
SLOT	SLOTTED
SLV	SLEEVE
SNT	SEALANT
SP	SOIL PIPE
SPEC	SPECIFICATION
SPECS	SPECIFICATIONS
SPK	SPEAKER
SPL	SPECIAL
SPLR	SPRINKLER
SQ	SQUARE
SSD	SUB-SOIL DRAIN
SSGS	SILICONE STRUCTURAL GLAZING SEALANT
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STG	SEATING
STGG	STRUCTURAL GLAZING GASKET
STGR	STAGGER
STIFF	STIFFENER
STL	STEEL
STM	STEAM
STOR	STORAGE
STR	STRAIGHT (RE-BARS)
STRFR	STOREFRONT
STRUC	STRUCTURAL
STRUCT	STRUCTURAL
STW	STORM WATER
SUPP	SUPPLEMENTARY, SUPPLEMENT
SUR	SURFACE
SURF	SURFACE
SUSP	SUSPENDED
SW	SWITCH
SY	SQUARE YARD
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM(S)
T	
T&G	TOUNGUE AND GROOVE
T/	TOP
TAN	TANGENT
TC	TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
TERR	TERRAZZO
THK	THICK
THRESH	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TLT	TOILET
TOC	TOP OF CONCRETE
TOL	TOLERANCE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TPTN	TOILET PARTITION
TRAF	TRAFFIC
TRANS	TRANSPARENT
TRAV	TRAVERTINE
TRD	TREAD
TRTD	TREATED
TSL	TOP OF SLAB
TST	TOP OF STEEL
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
U	
UL	UNDERWRITERS' LABORATORIES
UNDRLAY	UNDERLAYMENT
UNO	UNLESS NOTED OTHERWISE
USS	UNITED STATES STANDARD
UTL, UTIL	UTILITY
V	
VAC	VACUUM
VAR	VARIES
VB	VAPOR BARRIER
VBC	VINYL BASE (COVED)
VBS	VINYL BASE (STRAIGHT)
VCT	VINYL COMPOSITION TILE
VEH	VECHICLE
VENT	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIT	VITREOUS
VLT	VAULT
VOL	VOLUME
VP	VENT PIPE
VR	VAPOR RETARDER
VS	VENT STACK
VWC	VINYL WALL COVERING
W	

MONO	MONOLITHIC
MOT	MOTOR(IZED)
MOV	MOVABLE
MP	METAL ACOUSTICAL PANEL
MR	MOP RECEPTOR
MRD	METAL ROOF DECK
MTD	MOUNTED
MTL	MOUNTED
MTR	MOTOR
MULL	MULLION
MWK	MILLWORK
N	
NAT	NATURAL
NEUT	NEUTRAL
NIC	NOT IN CONTRCT
NMT	NON-METALLIC
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE
NTS	NOT TO SCALE
O	
O TO O	OUT TO OUT
O, O/	OVER
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFF	OFFICE
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING(S)
OPP	OPPOSITE
OPP H	OPPOSITE HAND
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
ORN	ORNAMENTAL
ORNA	ORNAMENTAL
OSD	OPEN SIGHT DRAIN
OUT	OUTLET
OVFL	OVERFLOW
OVHD	OVERHEAD
OZ	OUNCE
P	
P SL	PIPE SLEEVE
PA	PUBLIC ADDRESS
PB	PULL BOX
PBD	PARITICLE BOARD
PCF	POUNDS PER CUBIC FOOT
PCPL	PORTLAND CEMENT PLASTER
PD	PLAZA DRAIN
PED	PEDESTAL OR PEDESTRIAN
PEDR	PEDESTRIAN
PERF	PERFORATE
PERIM	PERIMETER
PERP	PERPENDICULAR
PKG	PARKING
PKWY	PARKWAY
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLSTC	PLASTIC
PLTF	PLATFORM
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNT	PAINT
POL	POLISH(ED)
POLYST	POLYSTRENE
PORT	PORTABLE
POT W	POTABLE WATER
PR	PAIR
PRCST	PRECAST
PRE	PREFINISHED
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRESS	POLYSTYRENE
PRI	PRIMARY
PRTECN	PROTECTION
PRTN	PARTITION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTC	POST-TENSIONED CONCRETE
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVF	POLYVINYLIDENE FINISH
PVG	PAVING
PVMT	PAVEMENT
PVT	PRIVATE
PWR	POWER
Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
QUAL	QUALITY
R	
RA	RETURN AIR
RAD	RADIUS
RADN	RADIAN
RB	RUBBER BASE
RBT	RABBET
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
RDR	READER
REBAR	REINFORCING BAR
REC	RECEIVER
RECEP	RECEPTACLE
RECES	RECESSED
RECPT	RECEPTACLE
RED	REDUCER
REF	REFER(ENCE)
REFL	REFLECTED
REFR	REFRIGERATOR
REG	REGULAR
REINF	REINFORCED(D)(ING)(MENT)
REM	REMOVE
REQ	REQUIRE
REQD	REQUIRED
RESIL	RESILIENT
RESIS	RESIST(ANT)(IVE)
RET	RETURN OR RETAINING
REV	REVERSE OR REVISE OR REVISION
REV DR	REVOLVING DOOR
RF	ROOF
RFG	ROOFING
RGH	ROUGH
RGTR	REGISTER

HC	HOLLOW CORE
HD	HEAD, HEADER, HEAVY DUTY
HDCP	HANDICAPPED (BETTER CALLED "ACCESSIBLE")
HDN	HARDEN
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HEXAGONAL
HGR	HANGER
HGT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HEAT STRENGTHENED
HSS	HOLLOW STAINLESS STEEL
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HTW	HIGH TEMPERATURE WATER
HVAC	HEATING, VENTILATIING, AND AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER OR HEAVY WALL
HWC	HOT WATER CIRCULATING OR HEAVY WALL CONDUIT
HWD	HARDWOOD
HWH	HOT WATER HEATER
HWR	HOT WATER RECIRCULATING RETURN
HWS	HOT WATER SUPPLY
HWY	HIGHWAY
HYD	HYDRAULIC
HYDRO	HYDROSTATIC
I	
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCR	INCREASE
INFIL	INFILTRATION
INFILTR	INFILTRATION
INFO	INFORMATION
INSP	INSPECT
INSTRUM	INSTRUMENT(ATION)
INSUL	INSULATION
INT	INTERIOR OR INTERNAL
INTERM	INTERMEDIATE
INTLK	INTERLOCK(ING)
IW	INDIRECT WASTE
J	
J-BOX	JUNCTION BOX
JAN	JANITOR
JC	JANITOR'S CLOSET
JCT	JUNCTION
JST	JOIST
JT	JOINT
K	
KG	KILOGRAM
KIP	KILOPOUND (1000 POUNDS)
KIT	KITCHEN
KM	KILOMETER
KO	KNOCKOUT
KPL	KICKPLATE
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
L	
LA	LANDSCAPE ARCHITECT
LAB	LABORATORY, LABOR
LAD	LADDER
LAM	LAMINATE, LAMINATED
LAT	LATERAL
LAV	LAVATORY
LB	POUND
LBL	LABEL
LBR	LUMBER
LCD	LIQUID CRYSTAL DIODE
LD	LEADER DRAIN
LH	LEFT HAND
LIB	LIBRARY
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LL	LIVE LOAD
LN	LENGTH
LNDG	LANDING
LNTL	LINTEL
LOC	LOCATE
LOCS	LOCATIONS
LP	LOW POINT
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHTWEIGHT
LV	LOW VOLTAGE
LVLG	LEVELING
LVR	LOUVER
LVT	LOUVER
LWC	LIGHT-WEIGHT CONCRETE
£	BRITISH POUND (CURRENCY)
M	
M	METER
MACH	MACHINE
MAINT	MAINTENANCE
MAN	MANUAL
MAR	MARBLE
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MD	MEDIUM
ME	MECHANICAL ENGINEER
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MHO	MAGNETIC HOLD OPEN
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
MLDG	MOLDING
MLWK	MILLWORK
MM	MILLIMETER
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULE
MOIST	MOISTURE

DO	DOOR OPENING
DPR	DAMPER
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DSCON	DISCONNECT
DSP	DRY STANDPIPE
DTL	DETAIL
DWG	DRAWING
DWGS	DRAWINGS
DWR	DRAWER
E	
EA	EACH
ECC	ECCENTRIC
ED	EMERGENCY DRAIN
EJ	EXPANSION JOINT
EJECT	EJECTOR
EL	ELEVATION OR ELEVATOR
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR OR ELEVATION
ELP	EMERGENCY LIGHTING PANEL
EMBED	EMBEDD(ED)(ING)
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
ENG	ENGINEER
ENGR	ENGINEER(ED)
ENT	ENTRANCE
ENTR	ENTRANCE
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EPDM	ETHYLENE PROPLYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE
EVAP	EVAPORATOR
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXCAV	ESCAVATE
EXEC	EXECUTIVE
EXG	EXISTING
EXH	EXHAUST
EXH AIR	EXHAUST AIR
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED
EXP JT	EXPANSION JOINT
EXPN	EXPANSION
EXPS	EXPOSED(D)
EXT	EXTERIOR
EXTR	EXTRUDE
F	
F	DEGREES FARENHEIT
FA	FIRE ALARM OR FRESH AIR
FAB	FABRICATION
FAR	FLOOR AREA RATIO
FAST	FASTENER OR FASTEN
FC	FOOT CANDLE
FD	FLOOR DRAIN, OR FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FE&C	FIRE EXTINGUISHER AND CABINET
FEC	FIRE EXTINGUISHER CABINET
FF&E	FIXTURES, FURNISHINGS & EQUIPMENT
FGR	FIBERGLASS REINFORCED
FH	FIRE HYDRANT
FHC	FIRE HOSE AND CABINET
FIN	FINISH, FINISHED
FIXT	FIXTURE
FL	FLOOR OR FIRE LINE
FLASH	FLASHING
FLDG	FOLDING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FM	FACTORY MUTUAL COMPANY
FO	FINISHED OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUDS
FP	FIREPROOF
FPLC	FIREPLACE
FPM	FEET PER MINUTE
FPRF	FIREPROOF
FR	FIRE RAT(ING)(ED)
FRMG	FRAMING
FS	FLOOR SINK
FSCW	FLUSH SOLID CORE DOOR
FT	FT
FTG	FITTING
FURN	FURNITURE
FURR	FURRING
FUT	FUTURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
FXD	FIXED
FXTR	FIXTURE
G	
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GUTTER DRAIN
GEN	GENERATOR OR GENERAL
GENL	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GFRP	GLAS FIBER REINFORCED PLASTER
GKT	GASKET
GL	GLASS
GL BLK	GLASS BLOCK
GLZ	GLAZE
GND	GROUND
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRAD(E)(ING)
GRAN	GRANITE
GRND	GROUND
GRTG	GRATING
GT	GROUT
GV	GALVANIZED
GYP	GYPSUM
GYP-BD	GYPSUM BOARD
H	
HB	HOSE BIB

A	
&	AND
ABV	ABOVE
ACCESS	ACCESSORY
ACI	AMERICAN CONCRETE INSTITUTE
ACOUS	ACOUSTIC(AL)
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AL	ALUMINUM
ALT	ALTERNATE
ALUM	ALUMINUM
AMT	AMOUNT
ANCH	ANCHOR, ANCHORAGE
ANNUNC	ANNUNCIATOR
ANOD	ANODIZED
ANT	ANTENNA
AOR	ARCHITECT OF RECORD
APPL	APPLIANCE
APPROX	APPROXIMATE
APRVD	APPROVED
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASSOC	ASSOCIATION, ASSOCIATE
ASSY	ASSEMBLY
AUTH	AUTHORIZED
AUTO	AUTOMATIC
AVG	AVERAGE
B	
B TO B	BACK TO BACK
B/	BOTTOM (OF)
BD	BOARD (OR BUILDING DEPARTMENT)
BETW	BETWEEN
BEV	BEVEL
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM (OR BENCHMARK)
BOL	BOLLARD
BOLLD	BOLLARD
BOT	BOTTOM
BRDG	BRIDGE, BRIDGING
BRDLM	BROADLOOM
BRG	BEARING
BRKT	BRACKET
BRZ	BRONZE
BU	BUILT UP
BUR	BUILT UP ROOF
BW	BOTH WAYS
C	
C/C	CENTER TO CENTER
CAB	CABINET
CAP	CAPACITY
CEM	CEMENT(ITIOUS)
CER	CERAMIC
CF	CUBIC FEET
CFL	COUNTERFLASHING
CFT	CUBIC FOOT
CHAM	CHAMFER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CIP	CAST-IN-PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR
CLR OPG	CLEAR OPENING
CMU	CONCRETE MASONRY UNIT
CND	CONDITION
CNTR	CENTER (OR COUNTER)
COATG	COATING
COEF	COEFFICIENT
COILG	COILING
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMP	COMPRESSED
COMPT	COMPARTMENT
CON	CONSTRUCTION
CONC	CONCRETE
COND	CONDENSER, CONDUIT
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS(ATION)
CONTR	CONTROL, CONTRACT(OR)
CONV	CONVECTOR
COR	CORNER, CORRIDOR
CORR	CORRIDOR, CORRUGATE
COV	COVER
CPR	COPPER
CPT	CARPET
CR	CARD READER
CRS	COURSE OR COLD ROLLED STEEL
CSG	CASING
CSTG	CASTING
CT	CERAMIC TILE, CORK TILE
CTD	COATED
CTR	CENTER OR COUNTER
CTSK	COUNTERSUNK
CTV	CLOSED CIRCUIT TV
CU.FT.	CUBIC FEET
CU.YD.	CUBIC YARD
CUR	CURRENT
CV	CHECK VALVE
CW	COLD WATER
CWP	CIRCULATING WATER PUMP
CWR	CONDENSATE WATER PUMP
CWS	CONDENSATE WASTE SUPPLY
CY	CUBIC YARD OR CYCLE
CYL	CYLINDER
D	
$	DOLLAR (US CURRENCY)
DB	DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DD	DECK DRAIN
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DES	DESIGN(ED)
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DMT	DEMOUNTABLE
DN	DOWN

GRAPHIC SYMBOLS (CONT.)

SECTION INDICATIONS

- ACOUSTICAL CEILING TILE
- ALUMINUM
- BRICK
- CARPET
- CONCRETE
- CONCRETE MASONRY UNIT
- CUT STONE
- EARTH
- FABRIC WRAPPED PANEL
- GLASS
- GRAVEL
- GYPSUM PLASTER
- INSULTATION (LOOSE OR BATT)
- INSULATION (RIGID)
- METAL
- PLASTIC
- PLYWOOD
- PRE-CAST PANELS
- SAND OR GROUT
- STONE
- WOOD (FINISHED)
- WOOD (CONTINUOUS MEMBER)
- WOOD (INTERRUPTED MEMBER

REFLECTED CEILING

- ACOUSTICAL CEILING AND GRID
- XX'-XX" / XX'-XX" — CEILING HEIGHT CHANGE SYMBOL
- X'-X" — FINISH CEILING HEIGHT SYMBOL
- GRID STARTPOINT SYMBOL
- AT1 — CEILING FINISH TAG
- MS — MOTION SENSOR
- S — CEILING MOUNTED SPEAKER
- CEILING MOUINTED CAMERA
- CEILING MOUNTED SPRINKLER HEAD
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED STROBE LIGHT
- CEILING MOUNTED EXIT SIGNS
- WALL MOUNTED EXIT SIGNS - PARALLEL
- WALL MOUNTED EXIT SIGNS - PERPENDICULAR
- E — DENOTES EXISTING TO REMAIN
- R — DENOTES EXISTING TO BE RELOCATED
- ACCESS DOOR

LIGHT FIXTURES

- FLORESCENT LIGHT FIXTURE
- FLORESCENT LIGHT FIXTURE / EMERGENCY CIRCUIT
- EXISTING LIGHT FIXTURE TO BE REMOVED
- UNDER CABINET FLORESCENT FIXTURE
- FLORESCENT STRIP FIXTURE
- FLORESCENT PENDANT FIXTURE
- RECESSED DOWNLIGHT
- RECESSED ADJUSTABLE DOWNLIGHT
- RECESSED WALL WASHER
- TRACK LIGHTING
- SURFACE MOUNTED LIGHT FIXTURE
- WALL SCONCE
- $ — LIGHT SWITCH
- D $ — DIMMER SWITCH

MECHANICAL FIXTURES

- RETURN AIR
- SUPPLY AIR
- CIRCULAR DIFFUSER
- LINEAR DIFFUSER
- EXHAUST FAN

GRAPHIC SYMBOLS

CONSTRUCTION

- 1 / A — COLUMN GRID REFERENCE NUMBER / COLUMN GRID LINES AND REFERENCE NUMBER
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW PARTITION
- 1 HR. RATED PARTITION
- 2 HR. RATED PARTITION
- 3 HR. RATED PARTITION
- 4 HR. RATED PARTITION
- MILLWORK
- MILLWORK ABOVE
- XX / XX.XX SIM — DETAIL NUMBER / SHEET NUMBER / DESCRIPTION OF SIMILAR OR OPPOSITE
- AREA TO BE DETAILED
- 1" / 2 A11.XX — LOCATION ON SHEET WHERE ELEVATION IS SHOWN / DIRECTION OF ELEVATION / SHEET NUMBER WHERE ELEVATION IS SHOWN / INTERIOR AND EXTERIOR ELEVATION MARKER
- 1 — REVISION REFERENCE NUMBER
- REVISION CLOUD DEPICTING AREA REVISED
- NAME / 1234 — ROOM NAME / ROOM NUMBER
- 01 — SHEETNOTE REFERENCE
- 1 A3A — WALL TYPE REFERENCE / FIRE RATING
- XXX — DOOR REFERENCE NUMBER (REFER TO DOOR SCHEDULE)
- XX / XX — DOOR NUMBER / DOOR TYPE
- XXX / X | X — DOOR NUMBER / DOOR TYPE | HARDWARE TYPE
- XX — WINDOW REFERENCE NUMBER (REFER TO WINDOW SCHEDULE)
- MW01 — MILLWORK REFERENCE NUMBER (REFER TO MILLWORK SCHEDULE)
- ELEVATION DATUM REFERENCE
- +6" / 0" — FLOOR ELEVATION TRANSITION
- MATCH LINE SEE XX/XX — MATCH LINE SYMBOL
- ALIGN — ALIGN WITH ESTABLISHED / ADJACENT SURFACES

WALL MOUNTED LIFE SAFETY EQUIPMENT AND DEVICES

- FIRE WARDEN STATION SYMBOL
- WALL MOUNTED FIRE ALARM STROBE SYMBOL
- FIRE ALARM PULL SYMBOL
- FEC — WALL MOUNTED, FIRE EXTINGUISHER CABINET
- WALL MOUNTED FIRE EXTINGUISHER
- WALL MOUNTED FIRE HOSE CABINET
- WALL MOUNTED FIRE VALVE
- WALL MOUNTED FIRE VALVE CABINET

FINISH

- XXXX / XXXX — WALL FINISH TAG / BASE FINISH TAG
- EXTENT OF FINISH TYP.
- XXXX — WALL FINISH TAG
- XXXX — SPECIAL FINISH TAG
- XXXX — FLOOR FINISH TAG
- XXXX — CEILING FINISH TAG
- CHANGE IN FLOOR FINISH

ELEVATION INDICATION

- GLASS SYMBOL
- MASONRY COURSING
- WOOD VENEER
- STONE

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

02.08.2021

STATE OF COLORADO — JOHN CHARLES GAMBRELL — 203617 — LICENSED ARCHITECT

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

SYMBOLS & ABBREVIATIONS

Scale

NOT TO SCALE

BP1B-G0.200

GRAPHIC SYMBOLS (CONT.)

WALL MOUNTED DEVICES

- XXX — EQUIPMENT TAG (REFER TO EQUIPMENT SCHEDULE)
- ST — WALL MOUNTED FIRE ALARM STROBE
- FA — FIRE ALARM PULL
- FW — FIRE WARDEN STATION
- WALL MOUNTED, SINGLE RECEPTACLE - CONVENIENCE
- WALL MOUNTED, SINGLE RECEPTACLE - DEDICATED
- WALL MOUNTED, SINGLE RECEPTACLE - SEPARATE
- WALL MOUNTED, DUPLEX RECEPTACLE - CONVENIENCE
- WALL MOUNTED, DUPLEX RECEPTACLE - DEDICATED
- WALL MOUNTED, DUPLEX RECEPTACLE - SEPARATE
- WALL MOUNTED, QUADRAPLEX RECEPTACLE - CONVENIENCE
- WALL MOUNTED, QUADRAPLEX RECEPTACLE - DEDICATED
- WALL MOUNTED, QUADRAPLEX RECEPTACLE - HALF DEDICATED
- WALL MOUNTED, VOICE/DATA RECEPTACLE
- WALL MOUNTED, DATA RECEPTACLE
- WALL MOUNTED, VOICE RECEPTACLE
- T — WALL MOUNTED, THERMOSTAT
- CTV — WALL MOUNTED, CABLE TV RECEPTACLE
- AV — WALL MOUNTED, AV RECEPTACLE
- AVT — WALL MOUNTED, AV TROUGH
- J — WALL MOUNTED, ELECTRICAL JUNCTION BOX
- WALL MOUNTED, VOICE/DATA JUNCTION BOX
- P — WALL MOUNTED, SYSTEMS WORKSTATION PANEL POWER INFEED
- V — WALL MOUNTED, SYSTEMS WORKSTATION PANEL VOICE/DATA INFEED
- WALL MOUNTED, CONDUIT STUB-OUT POWER
- WALL MOUNTED, CONDUIT STUB-OUT VOICE AND DATA
- WALL MOUNTED, CONDUIT STUB-OUT A/V
- WALL MOUNTED, PLUG MOLD

FLUSH FLOOR MOUNTED DEVICES

- FLUSH FLOOR MOUNTED, SINGLE RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, SINGLE RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, SINGLE RECEPTACLE - SEPARATE
- FLUSH FLOOR MOUNTED, DUPLEX RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, DUPLEX RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, DUPLEX RECEPTACLE - SEPARATE
- FLUSH FLOOR MOUNTED, QUADRAPLEX RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, QUADRAPLEX RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, QUADRAPLEX RECEPTACLE - HALF DEDICATED
- FLUSH FLOOR MOUNTED, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - SEPARATE
- FLUSH FLOOR MOUNTED, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - CONVENIENCE
- FLUSH FLOOR MOUNTED, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - DEDICATED
- FLUSH FLOOR MOUNTED, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - HALF DEDICATED
- AV — FLUSH FLOOR MOUNTED, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — FLUSH FLOOR MOUNTED, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - DEDICATED
- AV — FLUSH FLOOR MOUNTED, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - SEPARATE
- AV — FLUSH FLOOR MOUNTED, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — FLUSH FLOOR MOUNTED, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - DEDICATED
- AV — FLUSH FLOOR MOUNTED, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - HALF DEDICATED
- FLUSH FLOOR MOUNTED, VOICE/DATA RECEPTACLE
- FLUSH FLOOR MOUNTED, DATA RECEPTACLE
- FLUSH FLOOR MOUNTED, VOICE RECEPTACLE
- P — FLUSH FLOOR MOUNTED, SYSTEMS WORKSTATION PANEL POWER INFEED
- V — FLUSH FLOOR MOUNTED, SYSTEMS WORKSTATION PANEL VOICE INFEED
- AV — FLUSH FLOOR MOUNTED, AV RECEPTACLE
- PVD — FLUSH FLOOR MOUNTED, RAISED FLOOR BOX, COMBINATION POWER, VOICE/DATA
- PVA — FLUSH FLOOR MOUNTED, RAISED FLOOR BOX, COMBINATION POWER, VOICE/DATA, A/V
- AV — FLUSH FLOOR MOUNTED, RAISED FLOOR BOX, AV

GRAPHIC SYMBOLS (CONT.)

FLUSH FLOOR MOUNTED, POKE THRU, DEVICES

- FLUSH FLOOR MOUNTED, POKE THRU, SINGLE RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, POKE THRU, SINGLE RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, SINGLE RECEPTACLE - SEPARATE
- FLUSH FLOOR MOUNTED, POKE THRU, DUPLEX RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, POKE THRU, DUPLEX RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, DUPLEX RECEPTACLE - SEPARATE
- FLUSH FLOOR MOUNTED, POKE THRU, QUADRAPLEX RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, POKE THRU, QUADRAPLEX RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, QUADRAPLEX RECEPTACLE - HALF DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - CONVENIENCE
- FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - SEPARATE
- FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - CONVENIENCE
- FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - HALF DEDICATED
- AV — FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - DEDICATED
- AV — FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - SEPARATE
- AV — FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - DEDICATED
- AV — FLUSH FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - HALF DEDICATED
- FLUSH FLOOR MOUNTED, POKE THRU, VOICE/DATA RECEPTACLE
- FLUSH FLOOR MOUNTED, POKE THRU, DATA RECEPTACLE
- FLUSH FLOOR MOUNTED, POKE THRU, VOICE RECEPTACLE
- AV — FLUSH FLOOR MOUNTED, POKE THRU, AV RECEPTACLE
- P — FLUSH FLOOR MOUNTED, POKE THRU, SYSTEMS WORKSTATION PANEL POWER INFEED
- V — FLUSH FLOOR MOUNTED, POKE THRU, SYSTEMS WORKSTATION PANEL VOICE INFEED

SURFACE FLOOR MOUNTED DEVICES

- SURFACE FLOOR MOUNTED, SINGLE RECEPTACLE- CONVENIENCE
- SURFACE FLOOR MOUNTED, SINGLE RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, SINGLE RECEPTACLE - SEPARATE
- SURFACE FLOOR MOUNTED, DUPLEX RECEPTACLE- CONVENIENCE
- SURFACE FLOOR MOUNTED, DUPLEX RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, DUPLEX RECEPTACLE - SEPARATE
- SURFACE FLOOR MOUNTED, QUADRAPLEX RECEPTACLE- CONVENIENCE
- SURFACE FLOOR MOUNTED, QUADRAPLEX RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, QUADRAPLEX RECEPTACLE - HALF DEDICATED
- SURFACE FLOOR MOUNTED, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - CONVENIENCE
- SURFACE FLOOR MOUNTED, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - SEPARATE
- SURFACE FLOOR MOUNTED, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - CONVENIENCE
- SURFACE FLOOR MOUNTED, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - DEDICATED
- SURFACE FLOOR MOUNTED, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - HALF DEDICATED
- AV — SURFACE FLOOR MOUNTED, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — SURFACE FLOOR MOUNTED, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - DEDICATED
- AV — SURFACE FLOOR MOUNTED, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - SEPARATE
- AV — SURFACE FLOOR MOUNTED, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — SURFACE FLOOR MOUNTED, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - DEDICATED
- AV — SURFACE FLOOR MOUNTED, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - HALF DEDICATED
- SURFACE FLOOR MOUNTED, VOICE/DATA RECEPTACLE
- SURFACE FLOOR MOUNTED, DATA RECEPTACLE
- SURFACE FLOOR MOUNTED, VOICE RECEPTACLE
- AV — SURFACE FLOOR MOUNTED, AV RECEPTACLE
- P — SURFACE FLOOR MOUNTED, SYSTEMS WORKSTATION PANEL POWER INFEED
- V — SURFACE FLOOR MOUNTED, SYSTEMS WORKSTATION PANEL VOICE INFEED
- SURFACE FLOOR MOUNTED, CONDUIT STUB UP, AV
- SURFACE FLOOR MOUNTED, CONDUIT STUB UP, POWER
- SURFACE FLOOR MOUNTED, CONDUIT STUB UP, VOICE/DATA

GRAPHIC SYMBOLS (CONT.)

SURFACE FLOOR MOUNTED, POKE THRU DEVICES

- SURFACE FLOOR MOUNTED, POKE THRU, SINGLE RECEPTACLE - CONVENIENCE
- SURFACE FLOOR MOUNTED, POKE THRU, SINGLE RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, SINGLE RECEPTACLE - SEPARATE
- SURFACE FLOOR MOUNTED, POKE THRU, DUPLEX RECEPTACLE - CONVENIENCE
- SURFACE FLOOR MOUNTED, POKE THRU, DUPLEX RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, DUPLEX RECEPTACLE - SEPARATE
- SURFACE FLOOR MOUNTED, POKE THRU, QUADRAPLEX RECEPTACLE - CONVENIENCE
- SURFACE FLOOR MOUNTED, POKE THRU, QUADRAPLEX RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, QUADRAPLEX RECEPTACLE - HALF DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - CONVENIENCE
- SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX & VOICE/DATA RECEPTACLE - SEPARATE
- SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - CONVENIENCE
- SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX & VOICE/DATA RECEPTACLES - HALF DEDICATED
- AV — SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - DEDICATED
- AV — SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECEPTACLES - SEPARATE
- AV — SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - CONVENIENCE
- AV — SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - DEDICATED
- AV — SURFACE FLOOR MOUNTED, POKE THRU, COMBINATION QUADRAPLEX, AV & VOICE/DATA RECEPTACLES - HALF DEDICATED
- SURFACE FLOOR MOUNTED, POKE THRU, VOICE/DATA RECEPTACLE
- SURFACE FLOOR MOUNTED, POKE THRU, DATA RECEPTACLE
- SURFACE FLOOR MOUNTED, POKE THRU, VOICE RECEPTACLE
- AV — SURFACE FLOOR MOUNTED, POKE THRU, AV RECEPTACLE
- P — SURFACE FLOOR MOUNTED, POKE THRU, SYSTEMS WORKSTATION PANEL POWER INFEED
- V — SURFACE FLOOR MOUNTED, POKE THRU, SYSTEMS WORKSTATION PANEL VOICE INFEED

FURNITURE SYSTEMS MOUNTED DEVICES

- FURNITURE SYSTEMS MOUNTED, SINGLE RECEPTACLE - CONVENIENCE
- FURNITURE SYSTEMS MOUNTED, SINGLE RECEPTACLE- DEDICATED
- FURNITURE SYSTEMS MOUNTED, SINGLE RECEPTACLE - SEPARATE
- FURNITURE SYSTEMS MOUNTED, DUPLEX RECEPTACLE - CONVENIENCE
- FURNITURE SYSTEMS MOUNTED, DUPLEX RECEPTACLE- DEDICATED
- FURNITURE SYSTEMS MOUNTED, DUPLEX RECEPTACLE - SEPARATE
- FURNITURE SYSTEMS MOUNTED, QUADRAPLEX RECEPTACLE - CONVENIENCE
- FURNITURE SYSTEMS MOUNTED, QUADRAPLEX RECEPTACLE - DEDICATED
- FURNITURE SYSTEMS MOUNTED, QUADRAPLEX RECEPTACLE - HALF DEDICATED
- FURNITURE SYSTEMS MOUNTED, VOICE/DATA RECEPTACLE
- FURNITURE SYSTEMS MOUNTED, DATA RECEPTACLE
- FURNITURE SYSTEMS MOUNTED, VOICE RECEPTACLE
- FURNITURE SYSTEM ELECTRIC PIGTAIL
- PP — FURNITURE MOUNTED, POWER POLE

SECURITY DEVICES

- CR — CARD READER
- CAMERA
- B — ELECTRIC DOOR BELL PUSH
- B — ELECTRIC DOOR BELL
- IC — INTERCOM
- DR — REMOTE DOOR RELEASE BUTTON
- MS — MOTION SENSOR
- IA — INTRUSION ALARM
- EH — ELECTRIC DOOR HINGE
- H — ELECTRICAL DOOR HOLD OPEN
- DR — ELECTRICAL DOOR RELEASE
- DC — ELECTRICAL DOOR MONITOR CONTACT
- DDC — DOUBLE DOOR MONITOR CONTACT
- EL — ELECTRIC LOCKSET
- KS — ELECTRIC KEY SWITCH
- ES — ELECTRIC STRIKE
- ML — MAGNETIC LOCKSET

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

02.08.2021

STATE OF COLORADO — JOHN CHARLES SUTHERLIN — 203617 — LICENSED ARCHITECT

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

SYMBOLS - POWER & COMMUNICATION

Scale

BP1B-G0.202

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

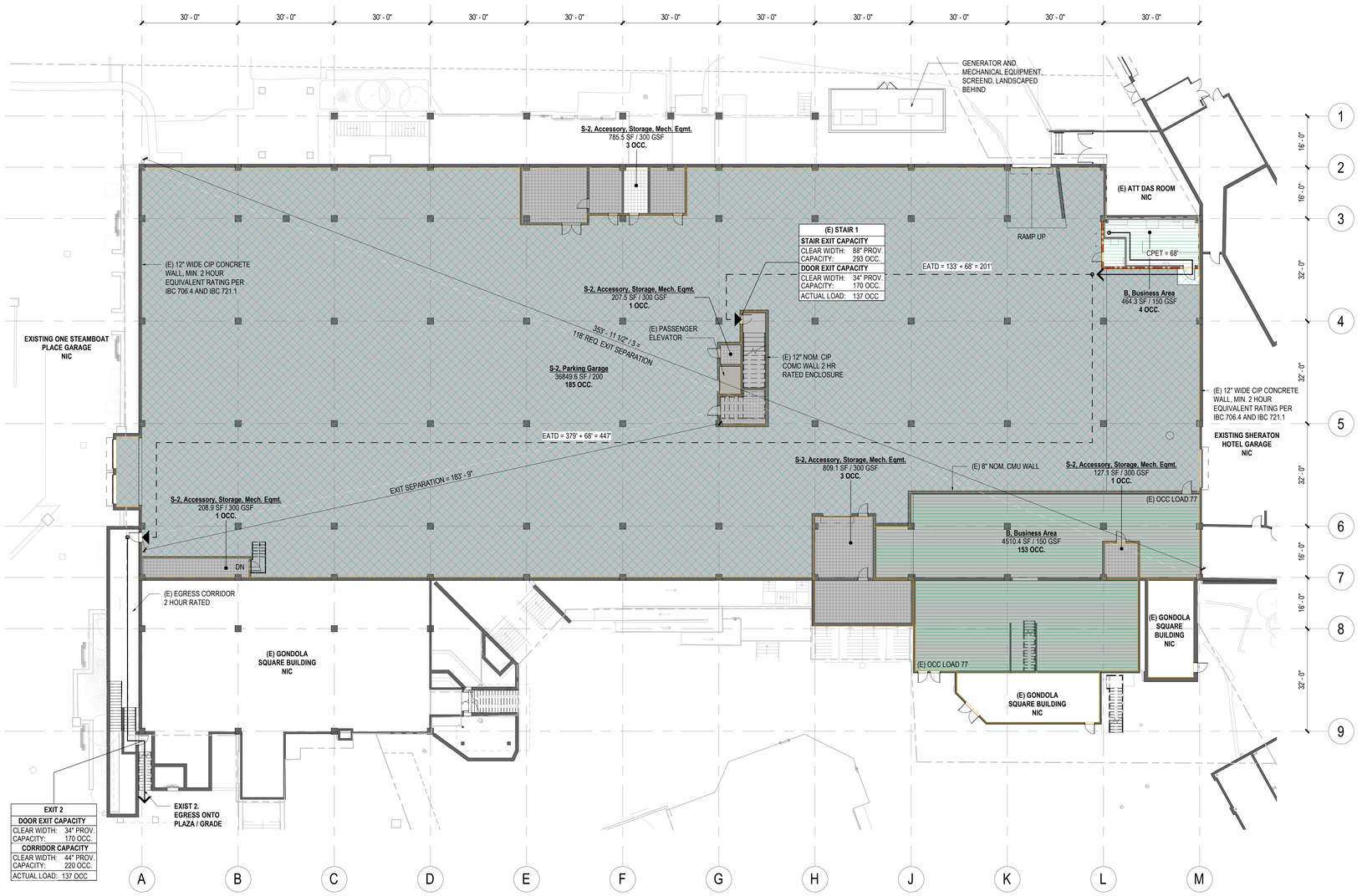
FUNCTION LEGEND (OCCUPANT LOAD)	
ASSEMBLY, UNCONC.	RESIDENTIAL
ASSEMBLY, CONC.	ACCESS, STORAGE, MECHANICAL
BUSINESS AREA	EXERCISE ROOM
MERCANTILE	LOCKER ROOM
KITCHENS, COMMERCIAL	PARKING GARAGE
NOT IN SCOPE	

SHEET NOTES

1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.

2. HVAC SHAFT FOR PARKING GARAGE NOT INCLUDED IN FLOOR GROSS.

EGRESS REQUIREMENTS - LEVEL 00, 01	
TOTAL GROSS AREA - ENTIRE LEVEL:	APPROX. 39,832 SF
TOTAL AREA IN SCOPE:	APPROX. 472 SF
TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
S-2 (300 GSF/PERSON):	193 OCCUPANTS
BUSINESS (100 GSF/PERSON):	81 OCCUPANTS
TOTAL:	274 OCCUPANTS
EGRESS WIDTH REQUIREMENTS:	
OTHER EGRESS COMPONENTS	IBC 1005.3.2
REQUIRED (.2 IN/OCCUPANT):	55 INCHES
PROVIDED AT EXIT STAIR DOORS:	68 INCHES
EXIT STAIR WIDTH	IBC 1005.3.1
REQUIRED (.3 IN/OCCUPANT)	83 INCHES
PROVIDED AT EXIT STAIRS AND EXIT CORRIDOR	513 INCHES
	IBC 1020.2
MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	44 INCHES
MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	44 INCHES
	IBC TABLE 1006.3.1
MINIMUM NUMBER OF EXITS REQUIRED:	2 EXITS
NUMBER OF EXITS PROVIDED:	2 EXITS
	IBC TABLE 1017.2 FOOTNOTE C
MAXIMUM LENGTH OF EGRESS TRAVEL:	300 FEET (BUSINESS)
	IBC 1006.2.1 FOOTNOTE A
MAXIMUM COMMON PATH OF TRAVEL:	100 FEET (BUSINESS)
	IBC 1020.4 EXCEPTION 2
MAXIMUM DEAD END CORRIDOR:	50 FEET
REMOTENESS OF EXITS:	
LONGEST DIAGONAL REMOTENESS OF EXITS	SEE PLAN



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

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
JOSEPH CHARLES GIBBENS
203617
LICENSED ARCHITECT
02.08.2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
EGRESS & OCCUPANCY PLAN - LEVEL 01 (PLAZA LEVEL)

Scale
As indicated

BP1B-G0.501

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

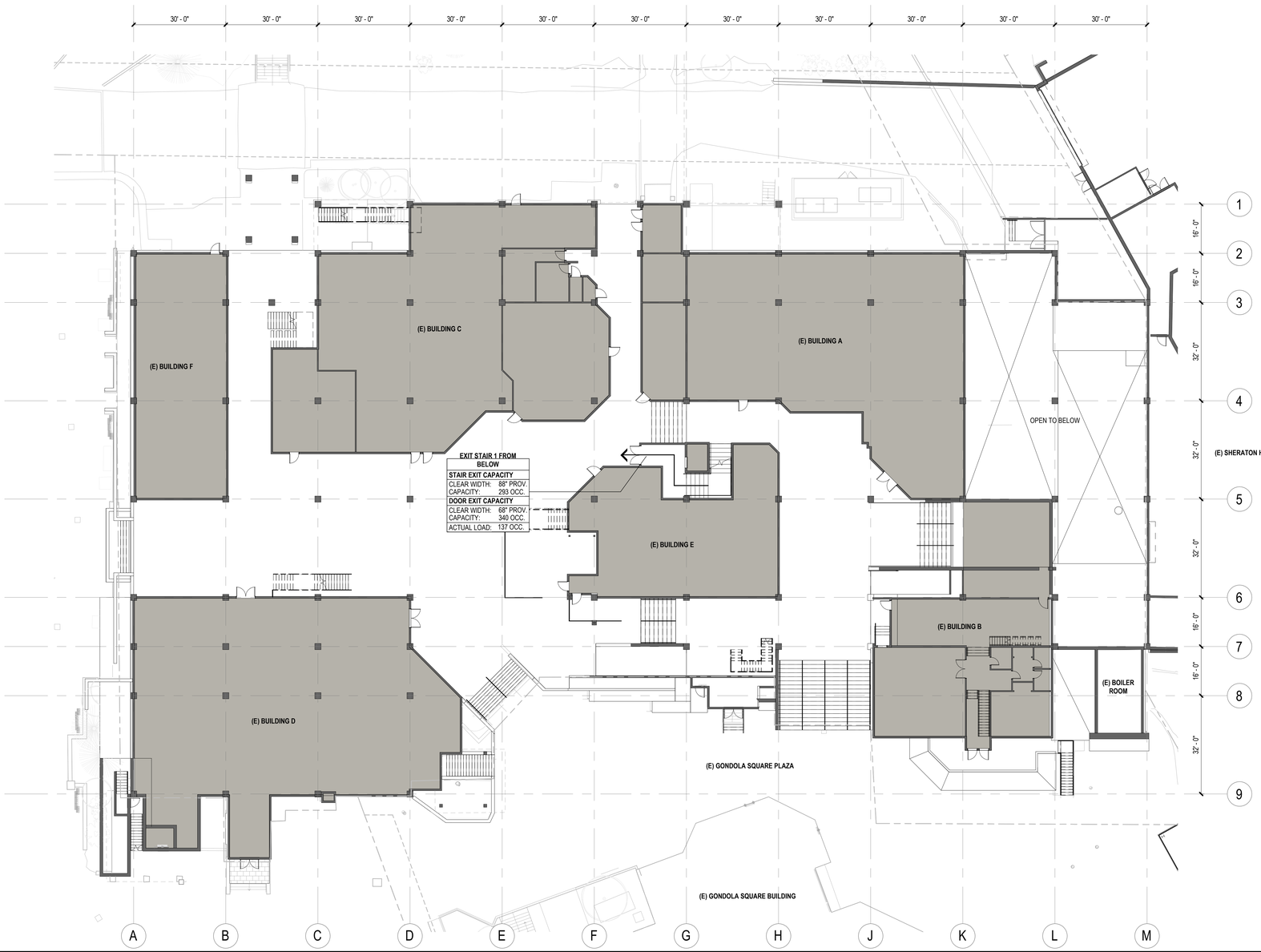
FUNCTION LEGEND (OCCUPANT LOAD)

- 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.



1 EGRESS & OCCUPANCY PLAN - LEVEL 02
SCALE: 1/16" = 1'-0"

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
CHRISTOPHER C. SWIFT
203617
LICENSED ARCHITECT
02.08.2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
EGRESS & OCCUPANCY PLAN - LEVEL 02

Scale
As indicated

BP1B-G0.502

NORTH

20 0 20 40 60 Feet

(IN FEET)
1 inch = 20 ft.

LEGEND:

- BUILDING
- ROOF LINE/OVERHANG
- DECK
- WALL
- FENCE
- MAJOR CONTOUR (6800)
- MINOR CONTOUR
- ASPHALT
- CONCRETE
- GRAVEL
- WOOD DECKING
- SIGN
- SANITARY SEWER LINE MARKER MANHOLE AND CLEANOUT
- SEPTIC TANK LID AND VENT PIPE
- WATER LINE MAKER, FIRE HYDRANT GATE VALVE, CURB STOP & BLOWOFF
- FIRE DEPT. CONNECTION, YARD HYDRANT, VENT PIPE, WATER MANHOLE AND WELL
- GAS LINE MARKER, VALVE, MANHILE/VAULT AND METER
- CABLE LINE MARKER, VAULT AND PEDESTAL
- FIBER OPTIC LINE MARKER, VAULT & PEDESTAL
- SATELLITE DISH
- TELEPHONE LINE MARKER, VAULT, PEDESTAL AND MANHOLE
- ELECTRIC LINE MARKER, TRANSFORMER, METER AND SECONDARY PEDESTAL
- SNOW MELT DISTRIBUTION LINE AND VAULT
- SNOW MAKING WATER MAIN
- ELECTRIC MANHOLE, OUTLET, GENERATOR AND JUNCTION BOX
- LIGHT POLE AND LIGHT POLE W/ MAST
- PROPOSED DITCH / SWALE
- UTILITY POLE, GUY POLE & GUY WIRE
- DITCH/SWALE
- CULVERT W/ END SECTIONS
- STORM MANHOLE, AREA DRAIN, GRATE INLET AND CURB INLET
- AIR CONDITIONER, MAILBOX NEWSTAND AND TRASH CAN
- BOLLARD, AREA LIGHT AND FLAG POLE
- CONIFEROUS AND DECIDUOUS TREE (SCALED TO APPROX. DRIPLINE)
- CONIFEROUS AND DECIDUOUS SHRUB (SCALED TO APPROX. DRIPLINE)
- FINISHED FLOOR ELEVATION (SEE NOTE 10) — x 6900.0'

NOTES:

1. THIS EXISTING CONDITIONS PLAN DOES NOT REPRESENT A MONUMENTED LAND SURVEY OR IMPROVEMENT SURVEY PLAT. IT IS INTENDED ONLY TO DEPICT THAT INFORMATION REQUESTED BY OUR CLIENT.
2. PARCEL AND RIGHT OF WAY BOUNDARIES ARE SHOWN HEREON BASED UPON THE APPLICABLE SUBDIVISION PLATS AND AVAILABLE PROPERTY CORNER MONUMENTS.
3. BASIS OF HORIZONTAL CONTROL: COLORADO NORTH ZONE, STATE PLANE COORDINATE SYSTEM, NAD83(2011).
4. UNITS SHOWN HEREON ARE IN US SURVEY FEET AND THE STANDARD OF DISTANCE ACCURACY FOR THIS MAP HAS BEEN DETERMINED TO BE GREATER THAN 1:10,000.
5. SITE BENCHMARK: A RECOVERED 3" BRASS CAP MONUMENTING THE NORTHEAST CORNER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 84 WEST OF THE 6TH P.M. SAID BRASS CAP ALSO BEING CITY OF STEAMBOAT SPRINGS GIS CONTROL POINT NUMBER 344, HAVING AN ELEVATION OF 6935.31 BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS SHOWN HEREON.
6. CONTOUR INTERVAL = 1 FOOT
7. BURIED UTILITIES AND/OR PIPE LINES ARE SHOWN PER VISIBLE SURFACE EVIDENCE, AS-BUILT DRAWINGS OF THE CONSTRUCTED UTILITY LINES AND MARKINGS PROVIDED BY A UTILITY LOCATING SERVICE. LOCATIONS SHOWN ARE APPROXIMATE. IF ANY UNDERGROUND UTILITY LOCATIONS ARE REQUIRED, THEY WILL HAVE TO BE VERIFIED BY FIELD POTHOLING THE UTILITIES. LANDMARK CONSULTANTS, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES.
8. THE LAST FIELD INSPECTION OF THE SITE WAS ON JANUARY 5, 2021.
9. ALL SYMBOLS ARE ONLY GRAPHICALLY REPRESENTED AND ARE NOT TO SCALE.
10. FINISH FLOOR ELEVATIONS WERE OBTAINED BY MEASUREMENTS MADE ON LANDINGS OR DOOR SILLS OUTSIDE THE BUILDING. INTERIOR FLOOR ELEVATIONS SHOULD BE VERIFIED WHERE APPROPRIATE.
11. WHERE 'MD' IS NOTED FOR STORM/AREA DRAIN INVERTS, THE DRAINS WERE MEASURED DOWN BUT IT WAS UNKNOWN WHETHER THE MEASUREMENT WAS TO A WYE, BEND OR INVERT DUE TO LACK OF VISIBILITY. THE 'MD' IS INTENDED TO REPRESENT 'MEASURED DEPTH'. SOME DISCREPANCIES MAY EXIST.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED JEFFRY A. GUSTAFSON 02-03-21 29039 PROFESSIONAL LAND SURVEYOR

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

EXISTING PROPERTY EXHIBIT

Scale

1"=20'

BP1B-V1.001

NORTH

20 0 20 40 60 Feet
(IN FEET)
1 inch = 20 ft.

EASEMENT LEGEND:

1	RECEPTION NO. 693016: 20' ACCESS EASEMENT EAST HOTEL ACROSS OSP
2	BOOK 729, PAGE 339, RECEPTION NO. 746875: BUDDY'S RUN DECK ENCROACHMENT EASEMENT
3	RECEPTION NO. 693287: INTERFACE EASEMENT
4	RECEPTION NO. 693287: INTERFACE EASEMENT, REVOCABLE PORTION
5	BOOK 532, PAGE 820: 10' SANITARY SEWER EASEMENT
6	RECEPTION NO. 693286: PARKING, ACCESS & MAINTENANCE EASEMENT
7	BOOK 729, PAGE 338, RECEPTION NO. 687253, RECEPTION NO. 705974: EAST HOTEL ACCESS EASEMENT AS AMENDED BY RECEPTION NO. _______________
8	BOOK 634, PAGE 49: 10' PEDESTRIAN AND BICYCLE PATH EASEMENT
9	RECEPTION NO. 307130, FILE NO 8823: 12' PEDESTRIAN EASEMENT
10	BOOK 374, PAGE 345, BOOK 376, PAGE 318, RECEPTION NO. 770696 : 20' WATER LINE EASEMENT
11	BOOK 337, PAGE 337: PERPETUAL VISUAL EASEMENT
12	BOOK 393, PAGE 509 & BOOK 395, PAGE 376: ROAD EASEMENT
13	BOOK 412, PAGE 341: ENTRYWAY EASEMENT
14	BOOK 412, PAGE 343: ACCESS EASEMENT
15	BOOK 580, PAGE 70, RECEPTION NO. 727257, RECEPTION NO. 727903: LANDSCAPING AND ACCESS EASEMENT (BEAR CLAW II)
16	BOOK 745, PAGE 286: 20' SEWER EASEMENT
17	RECEPTION NO. 673610, RECEPTION NO. 705975, RECEPTION NO. 789275: SEWER EASEMENT
18	RECEPTION NO.s 673610 & 705975: SEWER EASEMENT RELOCATION AREA
19	RECEPTION NO. 789275: SEWER ENCROACHMENT AREA
20	RECEPTION NO. 678035: FIRE SEPARATION EASEMENT
21	RECEPTION NO. 692162: SKI EASEMENT
22	RECEPTION NO. 693153: WATER MAINS EASEMENT
23	RECEPTION NO. 699297, RECEPTION NO. 749729, RECEPTION NO. 702319, RECEPTION NO. 713742: PUBLIC IMPROVEMENTS EASEMENT (HATCHED)
24	RECEPTION NO. 699297, RECEPTION NO. 713742: PUBLIC IMPROVEMENTS EASEMENT (BOILER HOUSE)
25	RECEPTION NO. 699720: SEWER MAINS EASEMENT
26	RECEPTION NO. 699721: WATER MAINS EASEMENT
27	RECEPTION NO. 718939, RECEPTION NO. 733617: PUBLIC IMPROVEMENTS EASEMENT (LITTLE P EASEMENT)
28	RECEPTION NO. 728342: ACCESS AND LANDSCAPE EASEMENT
29	BOOK 583, PAGE 238 & RECEPTION NO. 693278: ACCESS EASEMENT (1ST AMENDMENT EAST HOTEL ACCESS)
30	RECEPTION NO. 699296: STORM SEWER & ACCESS AND MAINTENANCE EASEMENT
31	RECEPTION NO. 693152: SANITARY SEWER EASEMENT
32	RECEPTION NO. ______: ELECTRIC EASEMENT
33	RECEPTION NO. ______: GAS EASEMENT
34	BOOK 532, PAGE 756: TELEPHONE EASEMENT
35	BOOK 601, PAGE 648: 10' BICYCLE AND PEDESTRIAN EASEMENT
36	RECEPTION NO. 789276: DECK EASEMENT AGREEMENT
37	BOOK 629, PAGE 832: PEDESTRIAN ACCESS EASEMENT
38	BOOK 532, PAGE 820, BOOK 532, PAGE 774: 10' SANITARY SEWER EASEMENT
39	BOOK 760, PAGE 976: BUILDING ENCROACHMENT EASEMENT
40	RECEPTION NO. 513746 (FILE NO. 12770); RECEPTION NO. 307130 (FILE NO. 8823): STORM SEWER EASEMENT
41	BOOK 532, PAGE 758: 16' TELEPHONE EASEMENT
42	BOOK 596, PAGE 1611: EXCLUSIVE PARKING SPACES; ENTRANCE FROM ACCESS ROUTE NO. 1; ENTRANCE FROM ACCESS ROUTE NO.2; VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS ACCESS EASEMENT (ACCESS ROUTE 2); STORAGE, CLOSET, ELEVATOR & STAIRWAY
43	BOOK 532, PAGE 774: 10' ELECTRIC EASEMENT
44	BOOK 729, PAGE 342: HOTEL ACCESS EASEMENT
45	RECEPTION NO. 307130: ACCESS EASEMENT SKI HILL SUBDIVISION
46	BOOK 559, PAGE 98: TRUCK TURNAROUND LICENSE AGREEMENT
47	RECEPTION NO. 693288: INTERFACE EASEMENT
48	RECEPTION NO. 693289: NO BUILD EASEMENT
49	BOOK 596, PAGE 1487, EX A: BUILDING IMPROVEMENT EASEMENT
50	RECEPTION NO. 600980: AERIAL TRAMWAY EASEMENT
51	RECEPTION NO. 680175: SHORING EASEMENT AGREEMENT
52	RECEPTION NO. 596269: GONDOLA EXPANSION EASEMENT (MULTIPLE EXHIBITS), GONDOLA SQUARE ACCESS EASEMENT, WEST SIDE DRAINAGE EASEMENT, ETC.
53	RECEPTION NO. 693283: PEDESTRIAN ACCESS EASEMENT OSP
54	BOOK 532, PAGE 802: 10' WATERLINE EASEMENT
55	RECEPTION NO. 693285: PATIO EASEMENT, DOORWAY EASEMENT, ENTRY EASEMENTS
56	RECEPTION NO. 693280: SANITARY SEWER EASEMENT
57	RECEPTION NO. 693283: EMERGENCY ACCESS EASEMENT OSP
58	RECEPTION NO. 693290: SKI AREA EASEMENT, STORM SEWER & DRAINAGE EASEMENT, RECIPROCAL UTILITY EASEMENT, GONDOLA SQUARE ACCESS EASEMENT
59	RECEPTION NO. 693016, BOOK 729, PAGE 338: AGREEMENT (ACCESS TO EASTERN SIDE OF HOTEL
60	RECEPTION NO. 693278: DECLARATION OF EASEMENT
61	RECEPTION NO. 600979: ACCESS EASEMENT
62	BOOK 596, PAGE 1487, EX C-7: WALKWAY EASEMENT
63	RECEPTION NO. 596269, BOOK 596, PAGE 1487, EX C-8 AND C-9: STORM SEWER LINE EASEMENT AND STORM LINE EASEMENT
64	BOOK 358, PAGE 473: PRIVATE RIGHT-OF-WAY
65	RECEPTION NO. 661066: OSP EASEMENT AREA
66	RECEPTION NO. 693018: RIGHT OF WAY EASEMENT (ELECTRIC)
67	RECEPTION NO. 693279: SNOWMAKING LINE EASEMENT
68	BOOK 583, PAGE 238: 30' ACCESS EASEMENT
69	BOOK 519, PAGE 577: 10' TELEPHONE EASEMENT
70	BOOK 729, PAGE 343: HOTEL BRIDGE ACCESS, PEDESTRIAN AND EMERGENCY AND MAINTENANCE VEHICLE ACCESS
71	BOOK 532, PAGE 782: ELECTRIC EASEMENT

Steamboat
ALTERRA MOUNTAIN COMPANY
east west partners

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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED JEFFREY A. GUSTAFSON 02-03-21 29039 PROFESSIONAL LAND SURVEYOR

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
EXISTING PROPERTY EXHIBIT

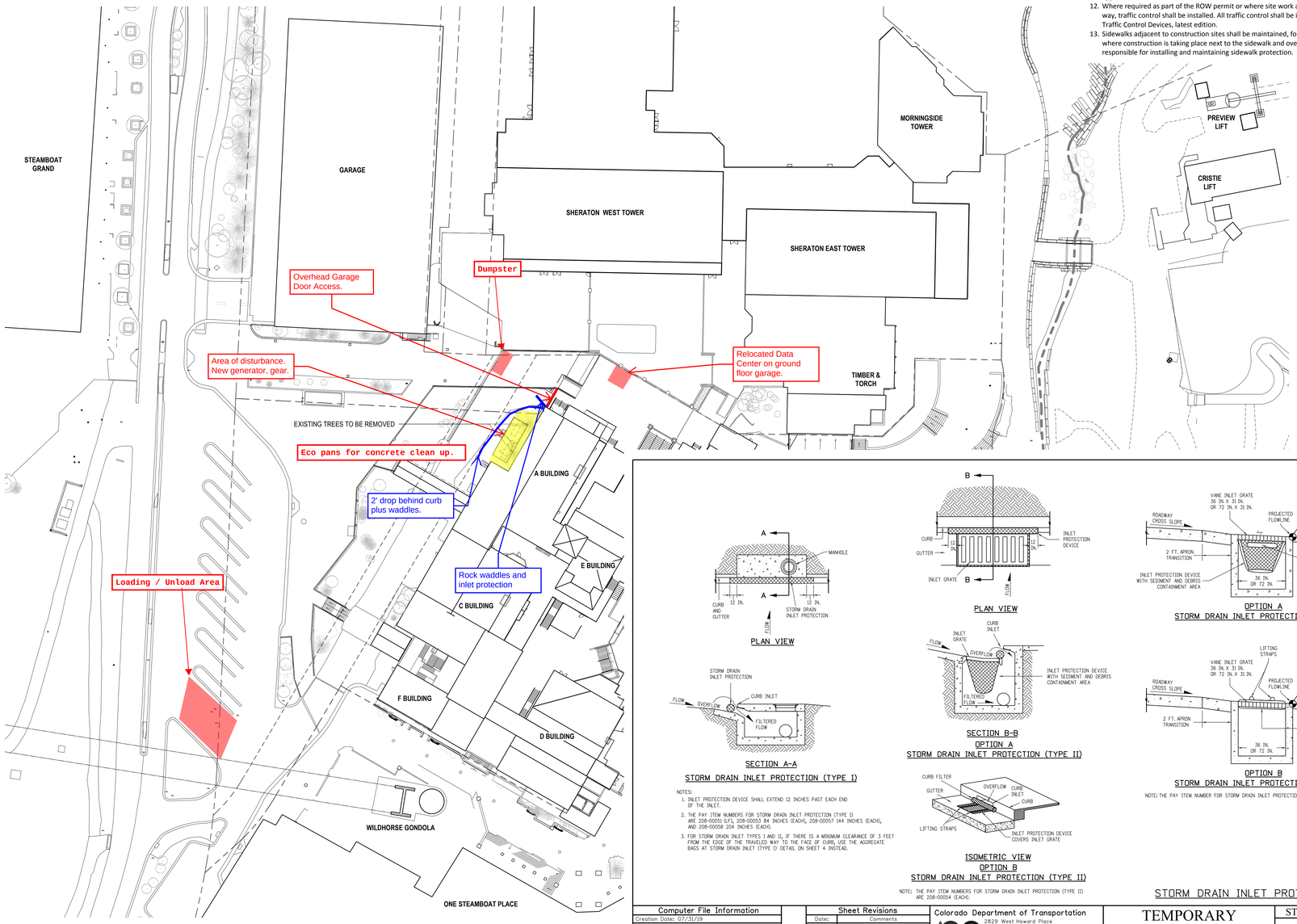
Scale
1"=20'

BP1B-V1.002

Construction Site Management Plan
Data Center Relocation
Saunders Construction
Brett Joblinske
719-491-0851

Standard Notes for Construction Site Management Plans:

1. This plan shall be kept on site at all times and updated to reflect any changes.
2. Clearing or grading shall not begin until all control measures have been installed.
3. Contractor is responsible for installing and maintaining temporary erosion and sediment control measures during construction and establishing any required permanent control measures to prevent release of pollutants from the project site.
4. Control measures shall be used, modified, and maintained whenever necessary to reflect current conditions. Control measures shall be inspected weekly and after every precipitation event. Accumulated sediment shall be removed from control measures when the sediment level reaches ½ the height of the control measure.
5. The contractor shall promptly remove all sediment, mud, and construction debris that may accumulate in the right of way, private property, or water ways as a result of the construction activities.
6. All ingress and egress access points on to the disturbed site must be stabilized with a vehicle tracking control pad. Access shall only be via approved locations as shown on approved CSMP.
7. Temporary soil stabilization measures shall be implemented where ground disturbances have temporarily or permanently ceased for 14 days or for areas of land disturbance within one growing season.
8. Concrete waste and washout water from mixing trucks shall be contained on site, removed from the site, and properly disposed. Materials shall not be allowed to enter state waters.
9. Contractor is responsible for complying with all local, state, and federal laws. In addition contractor must obtain required permits.
10. Emergency access must be kept obstacle free and passable at all times.
11. For any work to be done in the Right of Way, coordinate with the City ROW Manager regarding special permitting. No work shall be conducted in the ROW between November 1 and May 1 without prior approval from the director of Public Works.
12. Where required as part of the ROW permit or where site work affects the pedestrian or vehicle travel way, traffic control shall be installed. All traffic control shall be in accordance with the Manual on Uniform Traffic Control Devices, latest edition.
13. Sidewalks adjacent to construction sites shall be maintained, for public use, by the contractor. In areas where construction is taking place next to the sidewalk and overhead hazards are possible, site is responsible for installing and maintaining sidewalk protection.



1 SITE PLAN - BP1B
SCALE: 1" = 40'-0"

STORM DRAIN INLET PROTECTION TYPES

Computer File Information		Sheet Revisions	
Creation Date: 07/31/19		Date:	Comments:
Designer Initials: JBK	RCK		
Last Modification Date: 07/31/19	RCK		
Detailer Initials: LTA	RCK		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	RCK		

Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

TEMPORARY EROSION CONTROL
Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-208-1
Standard Sheet No. 5 of 11
Project Sheet Number:

SHEET NOTES

GENERAL NOTES

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

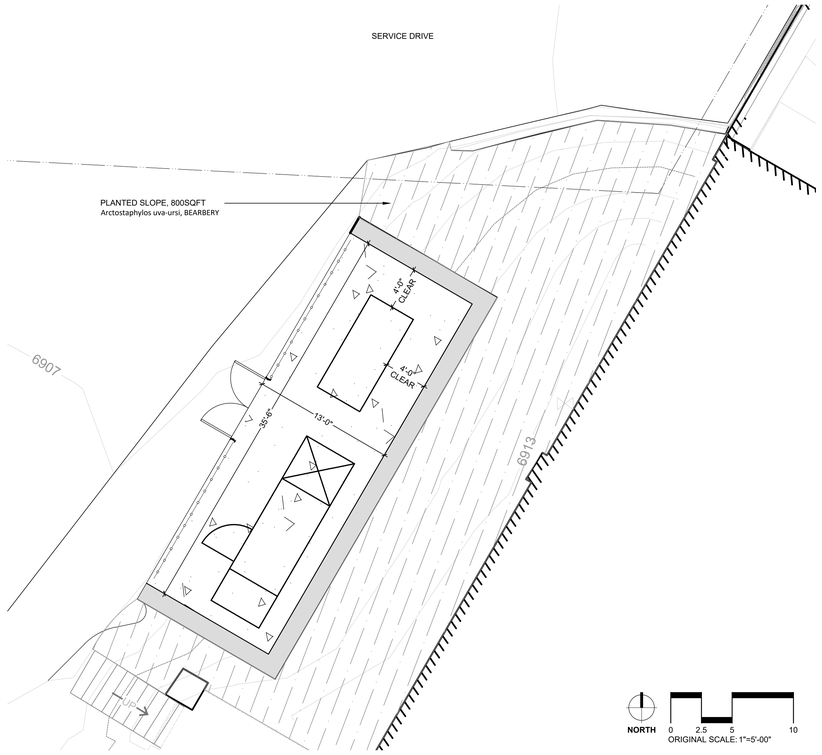
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
CONSTRUCTION SITE MANAGEMENT PLAN

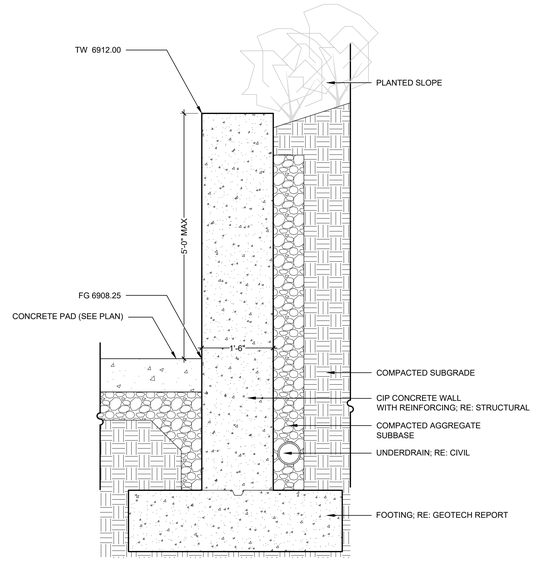
Scale
1" = 40'-0"
Ref North

BP1B-CSMP



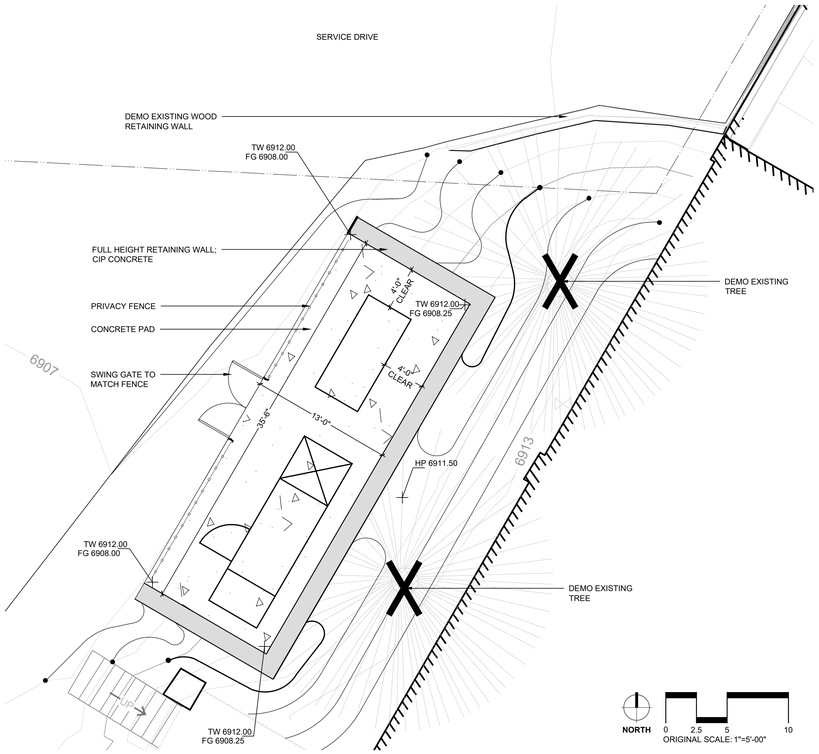
2 SITE PLAN: GENERATOR ENCLOSURE (PLANTING)

1"=10'-0"



4 RETAINING WALL

1"=1'-0"



1 SITE PLAN: GENERATOR ENCLOSURE (LAYOUT & GRADING)

1"=10'-0"

3 PRIVACY FENCE AND GATE

NTS

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

JAMES FOGLE
130
5-1-21
01/01/2008
Original Date of Licensure
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

Scale

AS INDICATED

BP1B-L0.001

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
-	GRID LINES
X / XX	SECTION OR DETAIL CUT
	SHEET NUMBER
XXX'-XX"	ELEVATION CALLOUT
X	DRAWING REVISION NUMBER
	CURRENT REVISION CLOUD
	WELDED-WIRE REINFORCEMENT
	ROUGHENED SURFACE, INTENTIONALLY ROUGHEN TO 1/4" AMPLITUDE, UNO
	STEP
	SLOPE
1	KEY NOTE
	SUBGRADE

SYMBOL	DESCRIPTION
XX.Xk	MECH UNIT (XX.Xk = MECH UNIT OPERATING WEIGHT IN KIPS INCLUDING INERTIA BASE)
X"	EXTENT OF CONCRETE PAD
	PAD THICKNESS
	STRUCTURAL MAS WALL CONTROL JOINT
	CAST-IN-PLACE CONCRETE

SYMBOL	DESCRIPTION
STEEL BEAM	BEAM SIZE

NOTES:
1. ITEMS NOT DESIGNED BY M/M ARE SHOWN HALFTONED,
2. ITEMS INCLUDE:
   - EXISTING CONSTRUCTION
   - PERFORMANCE SPECIFIED ITEMS (STAIRS, RAILINGS, ETC.)

ABBREVIATIONS

(E) or EXIST	Existing
(S)	Salvaged
/	Per
@	At
AB	Anchor Bolt
ACI	American Concrete Institute
ADDNL	Additional
AESS	Architecturally Exposed Structural Steel
AFF	Above Finish Floor
ALT	Alternate
ALUM	Aluminum
APA	American Plywood Association
APPROX	Approximate
ARCH	Architect or Architectural
B/ or BO	Bottom of
BAL	Balance
BD	Board
BF	Braced Frame
BG	Backgouge
BL	Brick Ledge
BLDG	Building
BLKG	Blocking
BM	Beam
BN	Boundary Nail
BOS	Bottom of Steel
BOT or B	Bottom
BRG	Bearing
BSMT	Basement
BTWN	Between
CC	Center to Center
CF	Cold Formed
CG	Center of Gravity
CIP	Cast-In-Place
CJ	Control Joint
CJP	Complete Joint Penetration
CL	Centerline
CLG	Ceiling
CLMS	Ceiling/Light/Mechanical/ Superimposed Load
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continue or Continuous
CONTR	Contractor
COORD	Coordinate
CSJ	Construction Joint
CTR(D)	Center(ed)
d	Penny
D or DL	Dead Load
DAS	Deformed Anchor Stud
DBL	Double
DCW	Demand Critical Weld
DFS	Deferred Submittal
Di	Gravity Ice Load
DIA OR Ø	Diameter
DIAG	Diagonal
DIM	Dimension
DN	Down
DO	Ditto
DP	Drilled Pier or Deep
DT	Precast Double Tee
DTL(s)	Detail(s)
DWG(s)	Drawing(s)
DWL(s)	Dowels(s)
E	Earthquake Load
E-W	East-West

EA	Each
EC	Epoxy Coated
EE	Each End
EF	Each Face
EJ	Expansion Joint
EL	Elevation
ELEV	Elevator
EMBED	Embedded
EN	Edge Nail
ENGR	Engineer
EOR	Engineer-of-Record
EQ	Equal
EQ SP	Equally Spaced
EQUIP	Equipment
ES	Each Side
EW	Each Way
EXP	Expansion
EXP ANCH	Expansion Anchor
EXT	Exterior
F	Fluid Load
Fa	Flood Load
FAB	Fabricate
FD	Footing Dowel
FF	Finished Floor
FIN	Finish(ed)
FLG	Flange
FLR	Floor
FND	Foundation
FO	Face of
FP	Full Penetration or Fire Proofing
FRAM	Framing
FS	Far Side
FT	Foot or Feet
FTG	Footing
FV	Field Verify
GA	Gage or Gauge
GALV	Galvanized
GC	General Contractor
GL	Glu-lam
GR	Grade or Grind
GR MB	Grade Beam
H	Soil Lateral Load
HAS or HDAS	Headed Anchor Stud
HD	Headed or Holddown
HDAR	Headed Anchor Rod
HDG	Hot Dipped Galvanized
HK	Hook
HORIZ	Horizontal
HT	Height
HVAC	Heating-Ventalating and A/C
I.F.	Inside Face
IN	Inch
INT	Interior
IS	Inside Diameter
IT	Precast Inverted Tee Beam
JST	Joist
JT	Joint
k	Kip
L	Length or Live Load
LB	Precast L-Shaped Beam
LB(S)	Pound(s)
LCE	Compression Embedment
LCS	Compression Lap Splice
LDH	Hook Development Length
LG	Length
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical

LOC(s)	Location(s) or Locate
LONG	Longitudinal
Lr	Roof Live Load
LSL	Laminated Strand Lumber
LT	Light
LTE	Tension Embedment
LTS	Tension Lap Splice Length
LTWT	Lightweight
LVL	Level or Laminated Veneer Lumber
LWC	Light Weight Concrete
MACH	Machine
MACH RM	Machine Room
MAS	Masonry
MATL	Material
MAX	Maximum
MBS	Metal Building Supplier
MCJ	Masonry Control Joint
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIL	Micro-Lam
MIN	Minimum
MISC	Miscellaneous
MLS	Masonry Lap Splace
mm	Millimeter
MNFR	Manufacturer
MO	Masonry Opening
MTL	Metal
N	North
N-S	North-South
NIC	Not in Contract
NM	Non-Metalic
NO OR #	Number
NOM	Nominal
NS	Non-Shrink or Near Side
NTS	Not to Scale
NWC	Normal Weight Concrete
O.F.	Outside Face
OAE	Or Approved Equivalent
OC	On Center
OD	Outside Diameter
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
OVS	Oversized
OWS	One-Way Slab
PAF	Powder Actuated Fastener
PC	Precast
PCA	Portland Cement Association
PD	Pier Dowel
PEMB	Pre-Engineered Metal Building
PEN	Penetration
PERP	Perpendicular
PL	Plate (Steel)
PLF	Pounds Per Lineal Foot
PREFAB	Prefabricated
PRELIM	Preliminary
PS	Prestressed
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT	Point or Post-Tension or Pretensioned
QTY	Quantity
R	Radius or Rain Load
RAD	Radius
RB	Precast Rectangular Beam
RC	Reinforced Concrete
RE: or REF	Refer to (Reference)

REINF	Reinforce(ing)(d)(ment)
REQD	Required
REQT(s)	Requirement(s)
RET	Return
RO	Rough Opening
ROF	Random Oriented Fiber
S	South
SC	Slip Critical
SCHED	Schedule
SECT	Section
SIM	Similar
SL	Snow Load
SLH	Short Leg Horizontal
SLRS	Seismic Load Resisting System
SLV	Short Leg Vertical
SOG	Slab on Grade
SP	Space(s)
SP @	Space at
SPECS	Specifications
SPRT	Support
SS	Stainless Steel
STD	Standard
STIFF	Stiffener
STL	Steel
STR	Structural
SW	Shearwall
SYM	Symmetrical
T	Top or Thermal Load
T&B	Top and Bottom
T/ or T.O.	Top of
THK	Thick or Thickness
TL	Total Load
TOC	Top of Concrete
TOF	Top of Footing
TOM	Top of Masonry
TOP	Topping
TOS	Top of Steel
TOW	Top of Wall
TRANS	Transverse
TWS	Two-Way Slab
TYP	Typical
ULT	Ultimate
UNO	Unless Noted Otherwise
Vasd	Service Level/Nominal Design Wind Speed
VERT	Vertical
VIF	Verify in Field
Vult	Ultimate Design Wind Speed
W	Wind Load
W/	With
W/O	Without
WD	Width or Wood
WF	Wide Flange
Wi	Wind-on-Ice Load
WP	Working Point or Waterproofing
WPS	Welding Procedure Specification
WT	Weight
WWR	Welded Wire Reinforcing
WxH	Width x Height

DEFERRED SUBMITTALS

GENERAL:

1A) THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
- ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS.

1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO. REFERENCE LOAD MAPS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLER LOAD ALLOWANCES.

1C) ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED UNLESS NOTED ON DRAWINGS OR APPROVED BY ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.

1D) LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RE-LOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.

1G) WALLS, GRADE BEAMS AND THE UNDERSIDE OF CONCRETE ON METAL DECK SHALL BE CONSIDERED CRACKED FOR THE PURPOSE OF DESIGNING ANCHORS FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS.

1H) SUBMIT STAMPED STRUCTURAL CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS PRIOR TO OR CONCURRENTLY WITH DRAWINGS OR PRODUCT DATA. INCLUDE ANALYSIS OF ATTACHMENT TO PRIMARY STRUCTURE. INCLUDE CURRENT ICC REPORT WITH ALL PROPRIETARY STRUCTURAL ELEMENTS AND ANCHORS/FASTENERS.

1I) POWDER ACTUATED FASTENERS (PAF) INTO CONCRETE OR CMU SHALL NOT BE USED TO RESIST TENSION LOADS. POWDER ACTUATED FASTENERS SHALL NOT BE USED TO RESIST GRAVITY LOADS WHICH INCLUDE BRICK VENEER.

1J) REFERENCE COLD-FORMED STEEL FRAMING NOTES FOR ADDITIONAL DEFERRED SUBMITTAL DESIGN CRITERIA.

FOUNDATION NOTES

DESIGN CRITERIA:

THE GEOTECHNICAL REPORT PREPARED BY NORTHWEST COLORADO CONSULTANTS, INC., NUMBER 20-12000, DATED 12/30/2020 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE PROJECT.

1) FOOTINGS:

1A) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE = 3000 PSF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4
- FROST DEPTH TO BOTTOM OF FOUNDATION = 48 IN

2) SITE RETAINING WALLS:

2A) EQUIVALENT FLUID PRESSURES USED FOR WALL DESIGN:
- "ACTIVE" CONDITION = 45 PCF
- "AT REST" CONDITION = 55 PCF
- "PASSIVE" CONDITION = 275 PCF
- LATERAL PRESSURE DUE TO SURCHARGE = 100 PSF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4

3B) WALL DESIGN BASED ON IMPORTED GRANULAR BACKFILL ADJACENT TO FOUNDATION WALLS. SEE EARTHWORK SPECIFICATION FOR REQUIREMENTS.

GENERAL NOTES

1) GENERAL:

1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1B) THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS.

1C) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

1D) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.

2) USE OF DRAWINGS:

2A) DO NOT SCALE DRAWINGS.

2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS:
- CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
- THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING

3) EXISTING STRUCTURES:

3A) CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.

3B) DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
- SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN
- DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS
- CONDITIONS OF INSTABILITY OR LACK OF SUPPORT
- ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD

3C) PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS.

3D) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.

3E) CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.

3F) SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE AND SECURE APPROVAL PRIOR TO CUTTING. NEW OPENING MAY BE EITHER SHOWN ON THE CONTRACT DOCUMENTS OR PROPOSED BY THE CONTRACTOR. DRAWING SHALL SHOW:
- VERTICAL & HORIZONTAL LOCATION AND SIZE OF NEW OPENING(S)
- ALL EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING(S)
- ALL EXISTING STRUCTURE (BEAMS, COLUMNS, SLABS, WALLS, ETC) IN THE VICINITY OF THE NEW OPENING(S)
- ALL REINFORCING BAR SIZES AND POSITIONS (LAYOUT LOCATION AND DEPTH) CONFLICTING WITH OR IN THE VICINITY OF THE NEW OPENING(S).

4) COORDINATION:

4A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.

4B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.

4C) SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 AT FLOOR FRAMING OR SPAN/240 AT ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION.

5) SUBMITTALS AND SUBSTITUTIONS:

5A) SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH IBC 2018 SECTION 1704

5B) SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS

5C) NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.

6) TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS:

6A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED DURING THE STRUCTURE'S SERVICE LIFE.

6B) THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK WHICH MAY INCLUDE, BUT IS NOT LIMITED TO:
- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- WELD PROCEDURES
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS

6C) FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL THE SLABS-ON-GRADE AND UPPER SLABS ARE IN-PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND GRADE BEAMS. GRADE BEAMS SHALL BE BACKFILLED EVENLY ON BOTH SIDES.

6D) NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY.
- THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.
- THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS. IN ADDITION, FIELD WELD ANYTHING THAT MAY BE CONSIDERED A TRIP HAZARD, SUCH AS SHEAR STUDS, AFTER PROTECTIVE DECKING IS INSTALLED.
- WASHERS OR RINGS MAY BE WELDED TO COLUMNS TO PROVIDE FOR SAFETY CABLES. HOLES IN COLUMNS FOR SAFETY CABLES SHALL BE SHOP INSTALLED AND SHALL BE INDICATED ON SHOP DRAWINGS. ADJUST COLUMN SPLICE LOCATIONS OR ADD COLUMN SPLICES AS NECESSARY TO COMPLY WITH OSHA REQUIREMENTS. SUBMIT PROPOSED LOCATIONS.
- HOLES IN CONCRETE COLUMNS FOR SAFETY CABLES SHALL BE INDICATED ON THE SHOP DRAWINGS, SHALL BE LIMITED TO 1"Ø MAXIMUM, LOCATED WITHIN THE MIDDLE THIRD OF THE COLUMN AND SHALL BE CREATED USING SLEEVES. DO NOT DRILL OR CORE COLUMNS TO INSTALL SAFETY CABLES.
- ALL METAL JOISTS REQUIRED BY OSHA TO BE BOLTED SHALL HAVE ERECTION BOLTS INSTALLED REGARDLESS OF FINAL CONNECTION SHOWN ON THE STRUCTURAL DRAWINGS.

STRUCTURAL DRAWING LIST

SHEET NUMBER	SHEET TITLE
BP1B-S0.01	GENERAL NOTES
BP1B-S0.02	GENERAL NOTES
BP1B-S0.03	NEW IT ROOM QUALITY ASSURANCE
BP1B-S1.01	NEW IT ROOM FRAMING PLANS
BP1B-S1.02	NEW IT ROOM DETAILS
BP1B-S1.03	NEW IT ROOM DETAILS

DESIGN CRITERIA

1) CODES AND STANDARDS:

1A) GENERAL DESIGN
- INTERNATIONAL BUILDING CODE 2018

2) SEISMIC LOADS
- SEISMIC DESIGN CATEGORY = D
- RISK CATEGORY = II
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 59.50 %g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 10.30 %g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.501
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.103
- SOIL SITE CLASS = C
- SEISMIC RESISTING SYSTEM NOT CONSIDERED FOR ANCILLARY STRUCTURE ADDITION BELOW EXISTING LEVEL 1.

3) WIND LOADS
- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 115 mph
- BASIC NOMINAL WIND SPEED, Vasd = 89.1 mph
- EXPOSURE CATEGORY = C

4) DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AND ELEMENTS DESIGNED BY THE CONTRACTOR

4A) LISTED COMPONENT AND CLADDING WIND PRESSURES ARE INCLUDED FOR REFERENCE ONLY. FINAL CALCULATIONS SHALL BE COMPLETED BY CONTRACTOR

4B) PRESSURES LISTED BELOW ARE ULTIMATE

4C) SEE 'WALL CORNER AND SPECIAL ROOF ZONES DIAGRAM'

4D) COMPONENT AND CLADDING SURFACE PRESSURES (PSF)

- **WALLS PRESSURES**

WALLS AREA	10 SF	100 SF	200 SF	500 SF
WALLS INTERIOR NEG (ZONE 4)	-24.5	-21.8	-20.6	-19.0
WALLS CORNER NEG (ZONE 5)	-49.0	-38.1	-33.4	-27.2
WALLS POSITIVE ZONE 4 & 5	24.5	20.4	18.6	16.3

5) LATERAL LOAD RESISTING SYSTEM DESCRIPTION:
- LATERAL RESISTING SYSTEM NOT CONSIDERED FOR ANCILLARY STRUCTURE ADDITION BELOW EXISTING LEVEL 1.

6) GRAVITY LOADS

6A) DEAD LOAD = MEP WEIGHT + CONCRETE PAD SELF WEIGHT
LIVE LOAD = 125 PSF AT SERVER ROOM LID

6B) DRIFTING, SLIDING AND UNBALANCED SNOW
- GROUND SNOW LOAD = 132.0 psf
- SNOW EXPOSURE FACTOR, Ce = 1.0
- SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
- THERMAL FACTOR, Ct = 1.00
- UNIFORM ROOF SNOW LOAD = 110.9 psf
- FLAT ROOF SNOW LOAD = 110.9 psf

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED PROFESSIONAL ENGINEER — ASHLEY G. KNOWLES — 38167

February 5, 2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

GENERAL NOTES

Scale

NOT TO SCALE

BP1B-S0.01

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 2/5/2021 3:48:29 PM
FILE PATH: BM 360\003.7835.000 - Steamboat Redevel\03.7835.000_Structural_SBR_GSO 2021_V2021.rvt

MM JOB #: 20.1411.5.01
PRINCIPAL: KELLY KNOWLES
EOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

MASONRY NOTES

1) DEFINITIONS:
1A) STRUCTURAL MASONRY IS DEFINED AS BEING EITHER LOAD BEARING AND/OR SERVING AS PART OF THE LATERAL LOAD RESISTING SYSTEM. STRUCTURAL MASONRY IS SHOWN ON THE STRUCTURAL PLANS AND DEFINED IN SCHEDULES AND DETAILS ON THE STRUCTURAL DRAWINGS.

1B) SEE ARCHITECTURAL DRAWINGS FOR LOCATION, THICKNESS AND EXTENT OF MASONRY PARTITIONS. SEE DETAILS ON THE STRUCTURAL DRAWINGS FOR GENERAL MASONRY PARTITION REQUIREMENTS.

2) DESIGN STRENGTH:
2A) DEVELOP 2000 PSI COMPRESSIVE STRENGTH (f'm) IN 28 DAYS.

2B) STEEL REINFORCING:
- PRIMARY REINFORCING: ASTM A615, 60 KSI
- HORIZONTAL JOINT REINFORCING: ASTM A951, PREFABRICATED, LADDER TYPE

3) SPLICES:
3A) PROVIDE 30 IN LAP LENGTH FOR #4 AND #5 BARS.

4) INSTALLATION REQUIREMENTS:
4A) GROUT SOLID ALL CELLS CONTAINING REINFORCING, EMBEDDED ITEMS, AND ALL OTHER CELLS NOTED ON THE CONTRACT DOCUMENTS.

POST-INSTALLED ANCHOR NOTES

1) PERSONNEL REQUIREMENTS:
1A) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

1B) PERSONNEL WHO WILL INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS IN CONCRETE THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL OUT. SUBMIT DOCUMENTED CONFIRMATION THAT PERSONNEL HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

2) INSTALLATION REQUIREMENTS:
2A) ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PER MANUFACTURER'S ON-SITE TRAINING.

2B) ALL ADHESIVE ANCHORS AND ADHESIVE ANCHORED REINFORCEMENT DESIGNS ARE FOR INSTALLATION IN THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE. WRITTEN APPROVAL MUST BE RECEIVED FROM ENGINEER PRIOR TO INSTALLATION IN ALTERNATE CONDITIONS.
- DRY CONCRETE, UNLESS NOTED OTHERWISE.
- CONCRETE TEMPERATURE AT TIME OF INSTALLATION THROUGH CURE TIME MUST BE WITHIN THE TEMPERATURE RANGE SPECIFIED IN MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION FOR ADHESIVE GEL AND CURE TIMES.
- ANCHOR HOLES TO BE HAMMER DRILLED AND CLEANED.
- CONCRETE MUST BE AT LEAST 21 DAYS OLD BEFORE INSTALLATION OF ANCHORS.
- HOLES TO BE CLEANED AND PREPARED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND EVALUATION REPORT PRIOR TO ADHESIVE INJECTION.

2C) THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO INSTALLING POST INSTALLED ANCHORS OR REINFORCEMENT. EXISTING REINFORCEMENT SHALL BE LOCATED USING A SCANNER, GPR, X-RAY, CHIPPING OR OTHER MEANS. DO NOT DAMAGE OR CUT EXISTING REINFORCEMENT.

3) SUBSTITUTION REQUESTS:
3A) SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS AND PRODUCT DATA DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS IN COMPLIANCE WITH THE RELEVANT BUILDING CODES, LOAD RESISTANCE, INSTALLATION CATEGORY, CREEP APPROVAL, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE OF THE SPECIFIED PRODUCT.

POST-INSTALLED ANCHOR TABLE

ANCHOR TYPE	PRODUCT	Fy (KSI)	Fu (KSI)	COMMENT
ADHESIVE (IN CONCRETE)	HILTI HIT-HY 200	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN CONCRETE W/>12" EMBEDMENT)	HILTI HIT-RE 500 V3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN GROUTED OR HOLLOW MASONRY)	HILTI HIT-HY 270	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE ANCHOR RODS	-	36 MIN	58 MIN	THREADED ROD, UNGREASED
EXPANSION ANCHORS (IN CONCRETE)	HILTI KWIK BOLT TZ	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
EXPANSION ANCHORS (IN GROUTED MASONRY)	HILTI KWIK BOLT 3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
SCREW ANCHORS	HILTI KWIK HUS-EZ	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS

STEEL NOTES

1) CONNECTIONS:
1A) PROVIDE CONNECTIONS AS SHOWN IN THE 'STEEL BEAM CONNECTION SCHEDULES' AND DETAILS HEREIN. REFER TO SPECIFICATION FOR ALTERNATIVES AND CONNECTIONS NOT SHOWN.

2) STEEL MATERIALS:
2A) SEE 'STEEL MATERIAL TABLE'

3) WELDING REQUIREMENTS:
3A) WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS. QUALIFICATION TESTS.

3B) MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.

3C) WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.

3D) WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY ANSI/AISC 360-05 TABLES J2.3 AND J2.4.

3E) ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.

3F) FIELD WELDING SYMBOLS INDICATE SEQUENCE CONSIDERED DURING DESIGN. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER TO MODIFY WELD INSTALLATION LOCATION INDICATED ON THE DOCUMENTS:
- FROM SHOP TO FIELD
- FROM FIELD TO SHOP

3G) DEFORMED ANCHOR STUDS (DAS) AND HEADED ANCHOR STUDS (HAS / HDAS) SHALL BE SHOP OR FIELD WELDED AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE

4) STRUCTURAL STEEL INSTALLATION:
4A) UNLESS INDICATED OTHERWISE, SNUG TIGHTEN ALL JOINTS AS DEFINED BY AISC CONNECTIONS AS INDICATED BELOW SHALL BE PRETENSIONED PER TABLE J3.1 OF ANSI/ AISC 360-16

5) METAL DECK:
5A) SEE 'METAL DECK SCHEDULE' FOR MATERIALS, PROFILE, AND CONNECTIONS TO STRUCTURE.

5B) QUALITY CONTROL AND QUALITY ASSURANCE FOR STEEL DECK INSTALLATION SHALL BE IN ACCORDANCE WITH SDI QA/QC-2011, "STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR THE INSTALLATION OF STEEL DECK" AS MODIFIED BY TABLE C-1 CONTAINED IN THE COMMENTARY TO THAT STANDARD.

5C) DECK DESIGN IS IN ACCORDANCE WITH STEEL DECK INSTITUTE (SDI) FLOOR DECK DESIGN MANUAL (2014), SDI ROOF DECK DESIGN MANUAL (2013), AND SDI DIAPHRAGM DESIGN MANUAL, 4TH EDITION (2015)

5D) REINFORCE OPENINGS IN METAL ROOF DECK AND FLOOR DECK SUPPORTING CONCRETE FILL IN ACCORDANCE WITH TYPICAL DECK OPENING DETAILS.

5E) INSTALL DECK OVER 4 SUPPORTS (3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE. DO NOT INSTALL DECK AS SINGLE SPAN UNLESS SPECIFICALLY SHOWN ON DRAWINGS.

5F) PROVIDE DECK ATTACHMENTS AS NOTED ON DRAWINGS.

5G) HANGERS: SEE TYPICAL METAL DECK DETAILS FOR ALLOWABLE HANGER LOADS, SPACING AND ATTACHMENT.

STEEL MATERIAL TABLE

STEEL ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	COMMENTS
ANCHOR RODS	F1554 GR 55	55	75	WELDABLE, HEAVY HEX HEADED
ANCHOR RODS IN MASONRY	F1554 GR 36, F1554 GR 55, OR A307 GRADE A/C	36	58	WELDABLE, STD HEX HEAD
BOLTS	F3125 - TYPE A325 OR F1852	--	120	BOLTS ARE 3/4"Ø UNO, USE TENSION- CONTROLLED WHERE POSSIBLE
COLD-FORMED STUDS/PLATE, 33 AND 43 MIL	A1003	33	--	--
COLD-FORMED STUDS/PLATE, 54 MIL AND HEAVIER	A1003	50	--	--
COLD-FORMED TRACK, ALL THICKNESSES	A1003	33	--	--
DAS	A1064	70	80	--
HAS	A108	51	65	STUDS ARE 3/4"Ø UNO
OTHER SHAPES	A36	36	58	--
PIPE	A53 GR B	35	60	--
PLATES	A36	36	58	--
RECT HSS	A500 GR C	50	62	--
ROUND HSS	A500 GR C	46	62	--
STEEL GRATING				PER NAAMM MBG 531, "METAL BAR GRATING MANUAL"
WELDING ELECTRODES, THICKNESS OF THINNER PART > 0.1 INCHES (12 GA)	E70			PER AWS
WELDING ELECTRODES, THICKNESS OF THINNER PART ≤ 0.1 INCHES (12 GA)	E60 OR E70	--	--	PER AWS
WF, WT	A992	50	65	--

METAL GAUGE CONVERSION

GAUGE	MINIMUM THICKNESS (MILS*)
22	27
20	33
18	43
16	54
14	68
12	97

NOTES:
* 1 MIL = 1/1000"

CONCRETE NOTES

CONCRETE MIX TABLE

CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH f'c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE (IN), NOTE a	TOTAL AIR CONTENT (%), NOTE b	OTHER REQTS, NOTE c
1	FOOTINGS	3.5	NWC	-	1	-	-
2	ALL CONC EXPOSED TO WEATHER OR DEICERS: EXTERIOR GENERATOR PAD	5	NWC	0.40	3/4	6	MCI
3	INTERIOR SLAB ON GRADE AND TOPPING SLAB	5	NWC	0.4	3/4	NP	FRC
4	INTERIOR SLAB ON DECK	3.5	NWC	0.4	3/4	NP	FRC

CONCRETE MIX TABLE NOTES:
PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO:
- PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.

- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.

USE TYPE I/II PORTLAND CEMENT UNLESS NOTED OTHERWISE. FOR CONCRETE MIXES USED ON FLOORS MINIMUM CEMENTITIOUS CONTENT SHALL BE 540 POUNDS PER CUBIC YARD.

IN ORDER TO ACHIEVE LEED POINT FOR RECYCLED CONTENT, CONTRACTOR SHALL CONSIDER USING UP TO 20% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS FOR CONCRETE MIXES USED IN SLABS, AND UP TO 40% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS FOR DRILLED PIERS, WALLS, GRADE BEAMS, AND COLUMNS. FOR FLY ASH CONTENT EXCEEDING 20% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS, CONCRETE SHALL ACHIEVE 500 PSI WITHIN 24 HOURS. SPECIFIED STRENGTH IN TABLE IS REQUIRED AT 56 DAYS.

FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW.

a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
3/4": #67 AGGREGATE
1": #57 AGGREGATE

b. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. 'NP' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE THAT SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1 1/2%.

c. ABBREVIATIONS FOR OTHER REQUIREMENTS AS FOLLOWS:
MCI = 0.15 FOR CONCRETE EXPOSED TO CHLORIDES IN USE.
FRC = FIBER REINFORCED CONCRETE. 1 1/2 LB/CY.

CONCRETE NOTES

GENERAL:
1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"

2) REINFORCING MATERIALS:
2A) SEE 'REINFORCING MATERIAL TABLE'

3) REINFORCING FABRICATION:
3A) SPLICES:
- NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS.
- SEE 'LAP SPLICE SCHEDULE' FOR LAP LENGTHS.
- SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS 'LTS' UNLESS NOTED OTHERWISE.
- SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE.

3B) MISCELLANEOUS REINFORCING REQUIREMENTS:
- PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011.
- PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

4) STRUCTURAL CONCRETE MIX REQUIREMENTS:
4A) SEE 'CONCRETE MIX TABLE'

5) SLAB-ON-GRADE:
5A) VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING.

5B) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT.

6) NON-SHRINK GROUT:
6A) CONFORM TO ASTM C1107

6B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

7) PLACING REINFORCEMENT:
7A) REINFORCEMENT PROTECTION:
- SEE 'REBAR COVER TABLE'
- SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES

7B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

8) CONSTRUCTION/CONTROL JOINTS:
8A) SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE.

8B) CONSTRUCTION JOINTS IN SLABS-ON-DECK, SLABS-ON-GRADE, AND STRUCTURAL SLABS SHALL BE LOCATED TO ACCOMMODATE THE MAXIMUM LENGTH AND AREA THE CONTRACTOR CAN REASONABLY POUR, FINISH, AND JOINT IN THE SAME DAY, BUT SHALL NOT EXCEED 150 FEET WITH A MAXIMUM AREA OF 15,000 SQUARE FEET UNLESS APPROVED BY THE ENGINEER.

8C) CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT.

9) MODIFICATIONS TO HARDENED OR EXISTING CONCRETE
9A) UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ARCHITECT:
- SAW CUTTING
- CORING
- CHIPPING

9B) DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE ARCHITECT

10) SLEEVES, OPENINGS, AND EMBEDED PIPE/CONDUITS:
10A) GENERAL
- REFER TO TYPICAL DETAILS FOR REQUIREMENTS FOR CONDUIT AND PIPE EMBEDDED IN WALLS AND SLABS
- REFER TO TYPICAL DETAILS FOR SPACING AND LAYOUT LIMITATIONS FOR SLEEVES AND OPENINGS
- FORM OPENINGS AND PROVIDE SLEEVES BEFORE PLACING CONCRETE, CORING OF CONCRETE IS NOT PERMITTED
- AT COMPOSITE SLABS DO NOT CUT DECK FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT

10B) REINFORCING
- REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS AT SLEEVES, OPENINGS OR CONDUIT
- DO NOT CUT REINFORCING WHICH MAY CONFLICT

REINFORCING MATERIAL TABLE

REINF ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	COMMENTS
TYP REINFORCING	A615	60	90	-
WELDED & FIELD BENT REINF	A706	60	80	-
WELDED WIRE REINFORCING, SMOOTH	A1064	65	75	-
WELDED WIRE REINFORCING, DEFORMED	A1064	70	80	-
EPOXY COATING OF REINFORCING	A775 OR A934	-	-	-

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED JEFFREY G. KNOWLES 38167 PROFESSIONAL ENGINEER
February 5, 2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
GENERAL NOTES

Scale
NOT TO SCALE

BP1B-S0.02

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 2/5/2021 3:48:30 PM
FILE PATH: BIM 360://003.7835.000 - SteamboatRedev/03.7835.000_Structural_SBR_GSG 2021_V2021.rvt

MM JOB #: 20.1411.5.01
PRINCIPAL: KELLY KNOWLES
EOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

STRUCTURAL STEEL INSPECTIONS

ITEM	INSPECTION TASK	STANDARD	CRITERIA/REMARKS
- PRIOR TO FABRICATION OR ERECTION	PERFORM	AISC 360, CHAPTER N	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS FOR STRUCTURAL STEEL, FASTENERS, ANCHOR RODS, HEADED STUD ANCHORS
PRIOR TO WELDING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AND WELDING PROCEDURE SPECIFICATIONS	PERFORM	AISC 360, CHAPTER N	-
- FIT UP OF WELDS, INCLUDING JOINT GEOMETRY, AND CONFIGURATIONS AND FINISH OF ACCESS HOLES	OBSERVE	AISC 360, CHAPTER N	-
- MATERIAL IDENTIFICATION	OBSERVE	AISC 360, CHAPTER N	-
- WELDER IDENTIFICATION SYSTEM	OBSERVE	AISC 360, CHAPTER N	-
DURING WELDING			
- USE OF QUALIFIED WELDERS	OBSERVE	AISC 360, CHAPTER N	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	AISC 360, CHAPTER N	-
- NO WELDING OVER CRACKED TACK WELDS	OBSERVE	AISC 360, CHAPTER N	-
- ENVIRONMENTAL CONDITIONS, AND WPS FOLLOWED	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - SINGLE PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - MULTI-PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
AFTER WELDING			
- WELDS CLEANED	OBSERVE	AISC 360, CHAPTER N	-
- SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM	AISC 360, CHAPTER N	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AISC 360, CHAPTER N, AWS D1.1	WHERE INSPECTOR OBSERVES QUESTIONABLE WELDS, NON-DESTRUCTIVE TESTING SHALL BE PERFORMED
- ARC STRIKES	PERFORM	AISC 360, CHAPTER N	-
- PLACEMENT AND INSTALLATION OF HEADED STUD ANCHORS	PERFORM	AISC 360, CHAPTER N	-
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDED MEMBER OR JOINT	PERFORM	AISC 360, CHAPTER N	-
PRIOR TO BOLTING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR FASTENER MATERIALS	PERFORM	AISC 360, CHAPTER N	-
- FASTENERS MARKS IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	AISC 360, CHAPTER N	-
- PROPER FASTENERS AND BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	AISC 360, CHAPTER N	-
- CONNECTING ELEMENTS MEET REQUIREMENTS, INCLUDING HOLE REPAIR AND FAYING SURFACE	OBSERVE	AISC 360, CHAPTER N	-
- PRE-INSTALLATION VERIFICATION TESTING	OBSERVE	AISC 360, CHAPTER N	NOT APPLICABLE FOR SNUG TIGHT JOINTS
- PROPER STORAGE FOR FASTENER COMPONENTS	OBSERVE	AISC 360, CHAPTER N	-
DURING BOLTING			
- FASTENERS PLACED IN ALL HOLES AND POSITIONED AS REQUIRED	OBSERVE	AISC 360, CHAPTER N	-
AFTER BOLTING			
- DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION MEMBER OR JOINT	-

OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS
PERFORM - THESE INSPECTIONS SHALL BE PERFORMED FOR EACH WELDED CONNECTION, EACH BOLTED CONNECTION, AND EACH ITEM, PRIOR TO ACCEPTANCE

STRUCTURAL MASONRY SPECIAL INSPECTIONS (LEVEL B)

ITEM	FREQUENCY	STANDARD	CRITERIA
- VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	P	TMS 602, Art 1.5	-
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE			
- PROPORTIONS OF SITE-PREPARED MORTAR	P	TMS 602, Art. 2.1 AND 2.6A	-
- CONSTRUCTION OF MORTAR JOINTS	P	TMS 602, Art. 3.3B	-
- LOCATION OF REINFORCEMENT AND CONNECTORS	P	TMS 602, Art.3.4	-
PRIOR TO GROUTING, VERFIY THAT THE FOLLOWING ARE IN COMPLIANCE			
- GROUT SPACE	P	TMS 602, Art. 3.2D AND 3.2F	VERIFY GROUT SPACE IS FREE OF MORTAR DROPPINGS AND DEBRIS, AND CLEANOUTS PROVIDED AS REQUIRED
- GRADE, TYPE, SIZE OF REINFORCEMENT AND ANCHOR BOLTS	P	TMS 602 Art. 2.4 AND 3.4	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCE. VERIFY GROUT SPACE AROUND ANCHORS IN FACE SHELL
- PLACEMENT OF REINFORCEMENT AND CONNECTORS (REBAR, JOINT REINFORCEMENT, AND TIES)	P	TMS 602, Art. 3.2E AND 3.4	VERIFY TYPE, SIZE, QUANTITY, LOCATION, SPACING, COVER, SPLICE LENTGH, SPLICE LOCATION, SURFACE CONDITION, SUPPORT, AND SECURING. SEE STRUCTURAL CONCRETE TABLE FOR FIELD BENDING, COATED REINFORCEMENT, AND MECHANICAL CONNECTORS
- PROPORTIONS OF SITE -PREPARED GROUT	P	TMS 602, Art. 2.6B	ASTM C476
- MIX DESIGN FOR OFF-SITE PREPARED GROUT	EACH TRUCK	-	-
- CONSTRUCTION OF MORTAR JOINTS	P	TMS 602, Art. 3.3B	-
VERIFY DURING CONSTRUCTION			
- SIZE AND LOCATION OF STRUCTURAL ELEMENTS	P	TMS 602, Art. 3.3F	-
- TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTIONS	P	-	-
- WELDING OF REINFORCEMENT	C	PER STRUCTURAL STEEL TABLE	-
- PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING HOT AND COLD WEATHER	P	TMS 602, Art. 1.8C AND 1.8D	REQUIRED WHEN AIR TEMPERATURE IS BELOW 40°F OR ABOVE 90°F
- OBSERVE PREPARATION OF GROUT SPECIMENS AND/OR PRISMS	P	TMS 602, Art. 1.4B	ASTM C1019, ASTM C1314

STRUCTURAL MASONRY TESTING (LEVEL B)

ITEM	FREQUENCY	STANDARD	CRITERIA
- SELF-CONSOLIDATING GROUT SLUMP FLOW	EACH TRUCK	ASTM C1611	VERIFY SLUMP FLOW AND VISUAL STABILTY INDEX
- WELDING REINFORCEMENT, BOLTS, AND EMBEDMENTS	-	-	PER STRUCTURAL STEEL TESTING

STRUCTURAL CONCRETE TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL, BOLTS AND EMBEDMENTS			
- WELDING	-	-	PER STRUCTURAL STEEL TESTING
CONCRETE			
- COMPOSITE SAMPLE			
1. f'c < 5000 PSI	100 CY/MIX/DAY	ASTM C172	OBTAIN AT POINT OF PLACEMENT. FOR DRILLED PIERS OBTAIN NEAR BEGINNING OF LOAD PRIOR TO PLACEMENT IN SHAFT. ADJUST FREQUENCY AS REQUIRED TO PROVIDE MINIMUM 5 TOTAL TESTS PER MIX BUT NOT MORE THAN ONE SAMPLE PER TRUCK LOAD
2. f'c ≥ 5000 PSI	50 CY/MIX/DAY		
- SLUMP/SLUMP FLOW	EACH COMPOSITE SAMPLE	ASTM C143 (SLUMP) OR ASTM C1611 (SLUMP FLOW)	SPECIFIED SLUMP SHALL BE AS SUBMITTED IN THE MIX DESIGN ± 1 1/2". PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE
- AIR CONTENT WHEN AIR ENTRAINMENT IS SPECIFIED AND LIGHTWEIGHT CONCRETE	EACH COMPOSITE SAMPLE	ASTM C231 PRESSURE METHOD (NWC) OR ASTM C173 VOLUMETRIC METHOD (LWC)	-
- TEMPERATURE	EACH COMPOSITE SAMPLE AND 60 MINUTE INTERVALS	ASTM C1064	REQUIRED WHEN AIR TEMPERATURE IS 40 °F AND BELOW OR 80°F AND ABOVE
- COLD WEATHER CURING	-	ASTM C1074	RECORD MAXIMUM AND MINIMUM CONCRETE TEMPERATURE DURING CURING PERIOD, WHEN DAILY AVERAGE AIR TEMPERATURE OF 40 °F OR BELOW IS EXPECTED FOR 3 SUCCESSIVE DAYS DURING CURING PERIOD
- COMPRESSIVE STRENGTH	EACH COMPOSITE SAMPLE	ASTM C31 ASTM C39 EITHER: (4)6x12 OR (6)4x8 CYLINDERS	TEST PER SCHEDULE BELOW: - 7 DAYS: (1) 6x12 OR (1) 4x8 - 28 DAYS: (2) 6x12 OR (3) 4x8 - 56 DAYS: (1) 6x12 OR (2) 4x8 (IF 28 DAY TESTS DO NOT ACHIEVE SPECIFIED 28 DAY STRENGTH) ACCEPTANCE CRITERIA PER ACI 318

STRUCTURAL CONCRETE TESTING NOTES:

1. NONDESTRUCTIVE TESTING MAY BE PERMITTED BY THE ARCHITECT, BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF DEFICIENT CONCRETE.
2. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE FOLLOWING INFORMATION: DATE OF CONCRETE PLACEMENT, LOCATION OF CONCRETE BATCH IN WORK, DESIGN 28-DAY COMPRESSIVE STRENGTH, SLUMP, CONCRETE SUPPLIER AND MIXTURE ID NUMBER, TIME OF BATCH AND PLACEMENT, AMBIENT AIR TEMPERATURE, SITE ADDED WATER AND ADMIXTURES, UNIT WEIGHT, AND AS REQUIRED BY ASTM C39.

POST-INSTALLED ANCHORS/REINFORCING STEEL SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
- CURE TIME	100% VISUAL	-	VERIFY FULL CURE TIME HAS ELAPSED PRIOR TO APPLICATION OF TORQUE OR LOAD TO ANCHOR

POST-INSTALLED ANCHOR/REINFORCING STEEL TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- TORQUE TEST	100%	-	TEST ANCHOR WITH CALIBRATED TORQUE WRENCH TO 100% OF THE INSTALLATION TORQUE NOTED IN ICC-ES REPORT. ATTAIN SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- TENSION TEST	FIRST 3 AND 1% OF REMAINING	ASTM E488 STATIC TENSION	TEST THE INSTALLATION OF THE FIRST 3 OF EACH TYPE, BASE MATERIAL, AND POSITION (DOWN, HORIZONTAL, OVERHEAD). OBSERVE ASTM E488 MINIMUM EDGE DISTANCES FOR DETERMINING TEST LOCATIONS. SUBMIT PROPOSED TEST LOCATIONS AND REQUESTS FOR REQUIRED TENSION TEST LOAD VALUES TO ENGINEER

QUALITY ASSURANCE GENERAL NOTES
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1. **GENERAL:**
   A. SCOPE OF WORK
   - THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.
   - SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY IBC 2018 SECTION 110.
   - REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.
   - REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.

   B. SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.

   C. DEFINITIONS
   - SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.
   - SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2018 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
   - (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
   - (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.

   D. DEFICIENCIES IN WORK
   - CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.
   - ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.

2. **SHOP FABRICATIONS:**
   A. GENERAL
   - PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR FABRICATION HAS A CURRENT ICC-ES EVALUATION REPORT.
   - SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED.
   - AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AUTHORITY HAVING JURISDICTION ACCORDING TO IBC 2018 SECTION 1704.2.5.1.
   - APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS D1.1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A OR ASNT CP-189.

   B. SHOP FABRICATIONS INCLUDED
   - SHOP FABRICATED STRUCTURAL STEEL

SOILS SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD`	CRITERIA
SUBGRADE			
- EXCAVATION	P	-	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED THE PROPER BEARING MATERIAL
- BEARING MATERIAL	P	SOILS REPORT	VERIFY BEARING MATERIAL IS ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
CONTROLLED FILL			
- PRIOR TO PLACEMENT	P	-	VERIFY SUBGRADE HAS BEEN PROPERLY PREPARED
- PLACEMENT	C	-	VERIFY USE OF PROPER MATERIALS, DENSITIES, COMPACTION, AND LIFT THICKNESSES

SOILS SPECIAL INSPECTION NOTES:

1. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL EARTHWORK AND UTILITY INSPECTION REQUIREMENTS.
2. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR CLASSIFICATION AND TESTING REQUIREMENTS FOR COMPACTED FILL AND/OR CONTROLLED LOW-STRENGTH MATERIAL.

STRUCTURAL CONCRETE SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL			
- DURING PLACEMENT	P	ACI 301-16 3.2-3.3	VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTH, SPLICE LOCATIONS, BEND DIAMETERS, COATING, SURFACE CONDITION, AND SUPPORT
- PRIOR TO PLACEMENT OF CONCRETE	100%		
- WELDING	C	AWS D1.4	VERIFY ASTM A706 REINFORCING STEEL
- FIELD BENDING	P	ACI 301-16 3.3.2.8	-
- COATED REINFORCING	P	ACI 301-16 3.2.1.2	-
BOLTS AND EMBEDMENTS			
- PRIOR TO PLACEMENT OF CONCRETE	100%	-	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED
- WELDING	-	-	INSPECT PER THE STRUCTURAL STEEL TABLE
CONCRETE			
- MIX DESIGN	EACH TRUCK	-	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD
- FORMWORK PRIOR TO PLACEMENT OF CONCRETE	P	ACI 301-16 2.2-2.3	INSPECT FIRST POUR OF EACH TYPE (GRADE BEAM, COLUMN, STRUCTURAL SLAB, SLAB-ON-DECK, ETC.)
- PLACEMENT OF CONCRETE	C	ACI 301-16 5.3.2	-
- CURING	P	ACI 301-16 5.3.6	-
- SHORE/FORM REMOVAL	P	ACI 301-16 2.3.2	FOR BEAMS AND STRUCTURAL SLABS

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED KELLY G. KNOWLES 38167 PROFESSIONAL ENGINEER

February 5, 2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

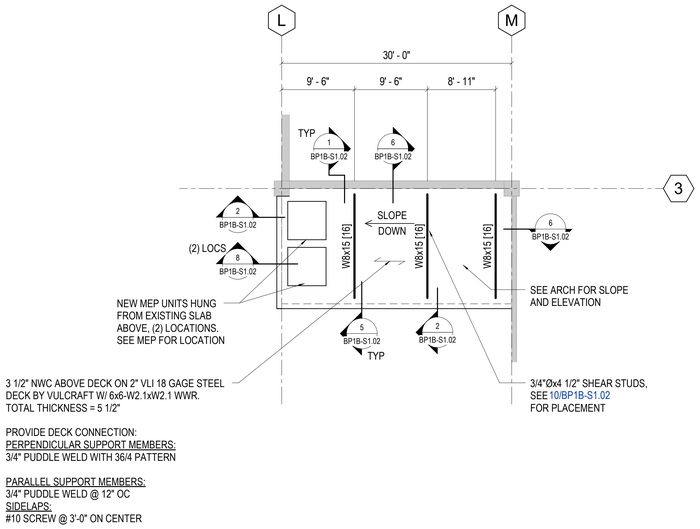
Description
NEW IT ROOM QUALITY ASSURANCE

Scale
12" = 1'-0"

BP1B-S0.03

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 2/5/2021 3:48:30 PM
FILE PATH: BIM 360:/003.7835.000 - Steamboat Redev/03.7835.000_Structural_SSRI_GS3 2021_V2021.1.rvt

MM JOB #: 20.1411.5.01
PRINCIPAL: KELLY KNOWLES
EOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



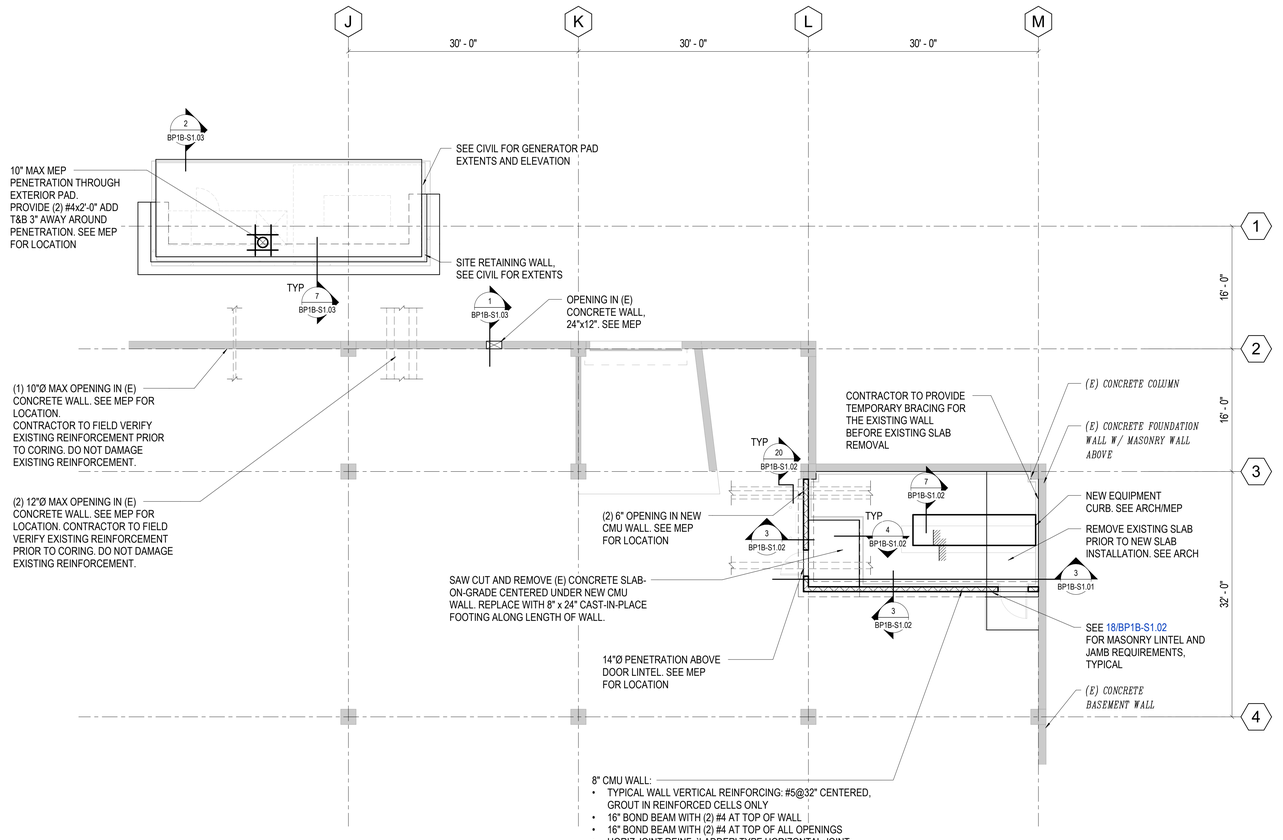
PROVIDE DECK CONNECTION:
PERPENDICULAR SUPPORT MEMBERS:
3/4" PUDDLE WELD WITH 36/4 PATTERN

PARALLEL SUPPORT MEMBERS:
3/4" PUDDLE WELD @ 12" OC
SIDELAPS:
#10 SCREW @ 3'-0" ON CENTER

2 IT ROOM LID FRAMING

1/8" = 1'-0"

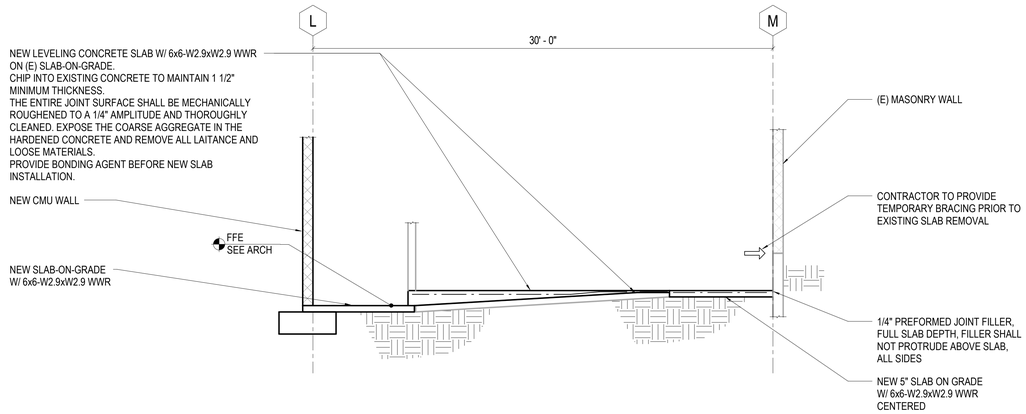
PLAN NOTE:
1. SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR NEW SLAB ELEVATION.
3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO STEEL FABRICATION.
4. TOP OF STEEL BEAMS SHALL EQUAL BOTTOM OF METAL DECK ELEVATION.
5. CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.



1 IT ROOM FLOOR PLAN

1/8" = 1'-0"

PLAN NOTE:
1. SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR NEW SLAB ELEVATION.
3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO STEEL FABRICATION.
4. CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.



3 IT ROOM NEW SLAB SECTION

1/4" = 1'-0"

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED C. A. KNOWLES 38107 PROFESSIONAL ENGINEER

February 5, 2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

NEW IT ROOM FRAMING PLANS

Scale

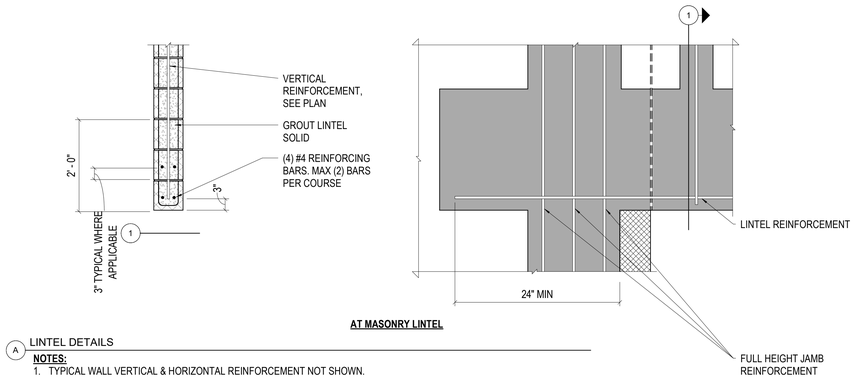
As indicated

Ref North

BP1B-S1.01

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:2/5/2021 3:48:31 PM
FILE PATH:BIM 360:/003.7835.000 - Steamboat Redev/03.7835.000_Structural_SBR_GSD 2021_V2021.rvt

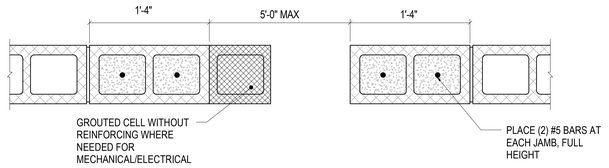
MM JOB # 20.1411.0.01
PRINCIPAL:KELLY KNOWLES
EOR:KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



AT MASONRY LINTEL

A LINTEL DETAILS

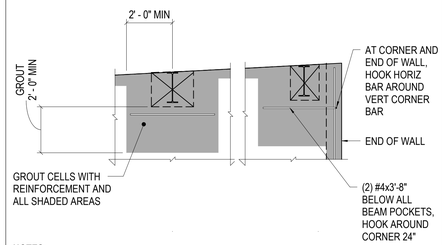
NOTES:
1. TYPICAL WALL VERTICAL & HORIZONTAL REINFORCEMENT NOT SHOWN.



AT MASONRY LINTEL

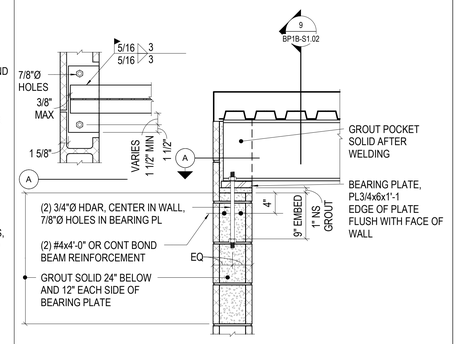
B JAMB DETAILS

18 3/4" = 1'-0" MASONRY - WALL OPENING

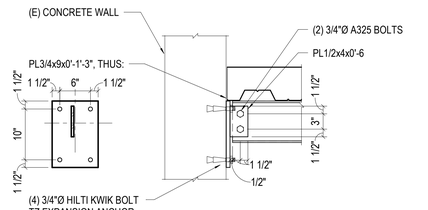


NOTES:
1. TYPICAL WALL VERTICAL & HORIZONTAL REINFORCING NOT SHOWN
2. GROUT SHOWN IS MINIMUM REQUIRED FOR BEAM BEARING.

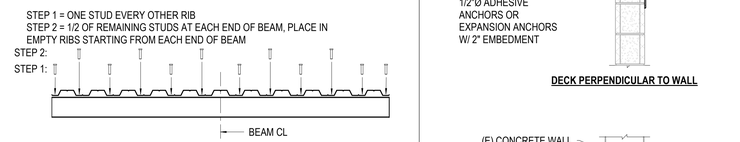
9 NO SCALE MASONRY WALL AT BEAM POCKET



5 1" = 1'-0" MASONRY BEAM BEARING POCKET



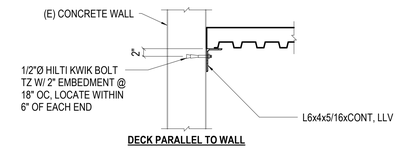
1 1" = 1'-0" W-SHAPE TO (E) CONCRETE WALL



B STUD LAYOUT AT DECK PERPENDICLUAR

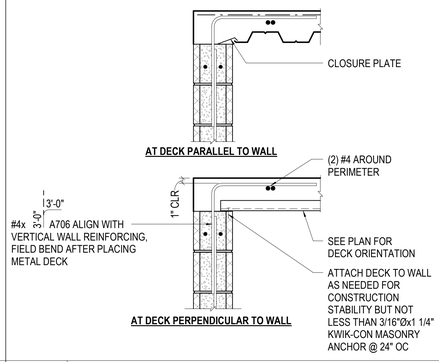
10 1/2" = 1'-0" TYP SHEAR STUD LAYOUT

DECK PERPENDICULAR TO WALL

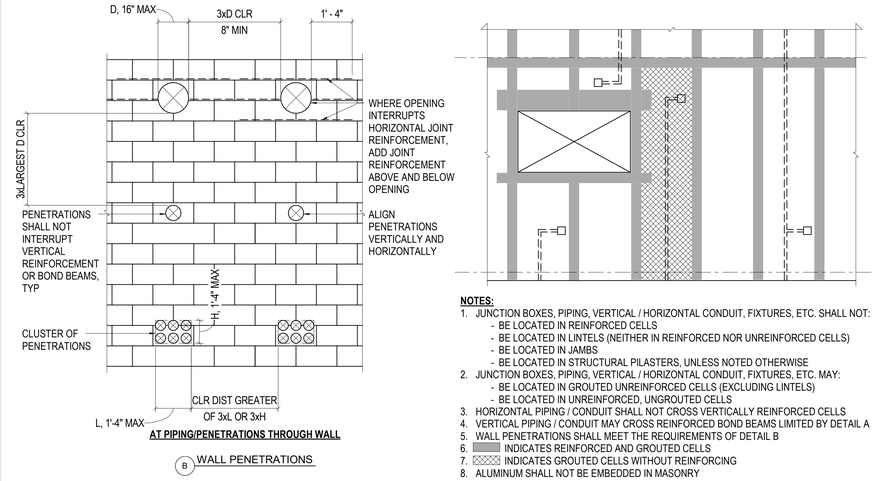


DECK PARALLEL TO WALL

6 3/4" = 1'-0" ROOF DECK TO WALL



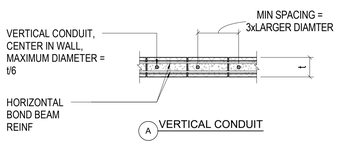
2 1" = 1'-0" MASONRY WALL SUPPORTING COMPOSITE DECK - TOP



AT PIPING/PENETRATIONS THROUGH WALL

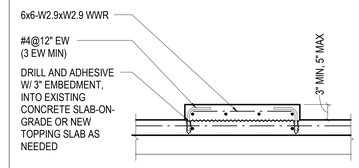
B WALL PENETRATIONS

NOTES:
1. JUNCTION BOXES, PIPING, VERTICAL / HORIZONTAL CONDUIT, FIXTURES, ETC. SHALL NOT:
   - BE LOCATED IN REINFORCED CELLS
   - BE LOCATED IN LINTELS (NEITHER IN REINFORCED NOR UNREINFORCED CELLS)
   - BE LOCATED IN JAMBS
   - BE LOCATED IN STRUCTURAL PILASTERS, UNLESS NOTED OTHERWISE
2. JUNCTION BOXES, PIPING, VERTICAL / HORIZONTAL CONDUIT, FIXTURES, ETC. MAY:
   - BE LOCATED IN GROUTED UNREINFORCED CELLS (EXCLUDING LINTELS)
   - BE LOCATED IN UNREINFORCED, UNGROUTED CELLS
3. HORIZONTAL PIPING / CONDUIT SHALL NOT CROSS VERTICALLY REINFORCED CELLS
4. VERTICAL PIPING / CONDUIT MAY CROSS REINFORCED BOND BEAMS LIMITED BY DETAIL A
5. WALL PENETRATIONS SHALL MEET THE REQUIREMENTS OF DETAIL B
6. INDICATES REINFORCED AND GROUTED CELLS
7. INDICATES GROUTED CELLS WITHOUT REINFORCING
8. ALUMINUM SHALL NOT BE EMBEDDED IN MASONRY



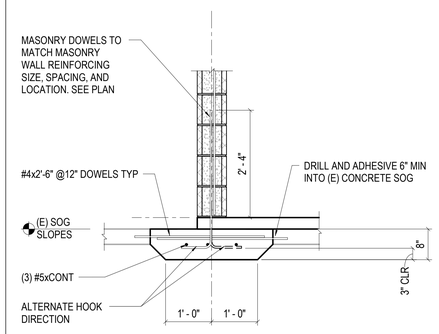
A VERTICAL CONDUIT

20 1/2" = 1'-0" MASONRY CONDUIT/PIPING PENETRATIONS

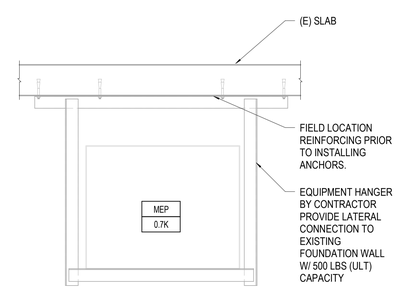


NOTES:
1. SEE ARCH/MEP DRAWINGS FOR SIZE, THICKNESS, AND LOCATIONS

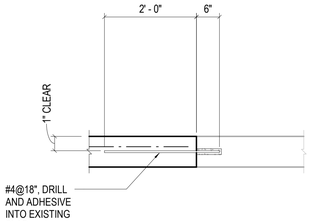
7 3/4" = 1'-0" NEW CIP CONC EQUIPMENT BASE



3 3/4" = 1'-0" SOG BELOW MASONRY PARTITION WALL



8 1/2" = 1'-0" EQUIPMENT HANGER



4 3/4" = 1'-0" SOG DOWEL TO EXISTING

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS, INC.
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 303.431.6655

Date	Description
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER

February 5, 2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

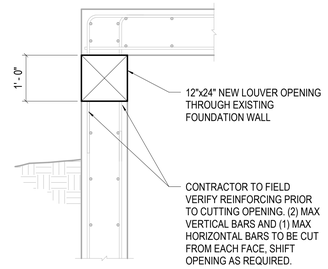
Description
NEW IT ROOM DETAILS

Scale
As indicated

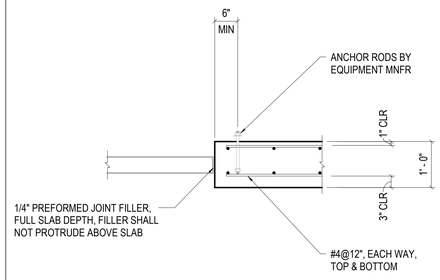
BP1B-S1.02

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:2/5/2021 3:48:32 PM
FILE PATH: BIM 360://003.7835.000 - SteamboatRedev/03.7835.000_Structural_SBR_GS2-2021_V2021.rvt

MM, ORI # 20.141.5.01
PRINCIPAL:KELLY KNOWLES
EOR-KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



1 3/4" = 1'-0" NEW LOUVER THROUGH EXISTING WALL PENETRATION

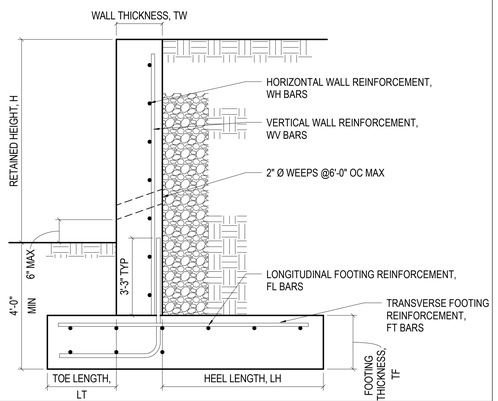


2 3/4" = 1'-0" EXTERIOR EQUIPMENT PAD

RETAINING WALL GEOMETRY

RETAINING WALL DIMENSIONS & REINFORCEMENT

H (FT)	LH (IN)	LT(IN)	TW (IN)	TF (IN)	WH	WV	FT	FL
2'-6"	28	15	8	12	#4@12"	#4@9"	#4@9"	4#5
5'-0"	54	20	9	15	#4@10"	#7@10"	#5@10"	8#5



7 3/4" = 1'-0" RETAINING WALL

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO REGISTERED PROFESSIONAL ENGINEER 38107

February 5, 2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

NEW IT ROOM DETAILS

Scale

3/4" = 1'-0"

BP1B-S1.03

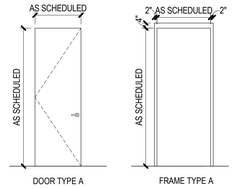
MM, CRP # 20.141.5.01
PRINCIPAL: KELLY KNOWLES
EOR-KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:2/5/2021 3:48:33 PM
FILE PATH:\BIM 360\1003.7835.000 - SteamboatRedevel\03.7835.000_Structural_SBR_GS2 2021_v2021.rvt

DOOR SCHEDULE

DOOR ASSEMBLY								FRAME ASSEMBLY						ASSEMBLY RATING				
			DIMENSIONS															
NUMBER	LOCATION	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	MATERIAL	FINISH	FIRE RATING	TEMP RISE	SMOKE LABEL	HARDWARE SET	REMARKS
002	VENDOR	A	3'-0"	7' - 0"	1 3/4"	HM	PTD	H-04	J-04	S-01	HM	PTD	45 MIN.	N/A	N/A	002	
001	SERVER ROOM	A	3'-6"	7' - 0"	1 3/4"	HM	PTD	H-03	J-03	S-01	HM	PTD	45 MIN.	N/A	N/A	001	

DOOR AND FRAME TYPES



HARDWARE SETS

GENERAL DESCRIPTION - REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS

ALL FINISHES: ANSI 630 – US 32D
LEVER HANDLE DESIGN BEST 40H SERIES LEVER 14

SET 001
DOOR 001: SERVER ROOM
3'X 7' HM DOOR WITH HM FRAME. SET IN CMU BLOCK WALL.
DOOR RATING 45 MIN.
HINGES: 3 BALL BEARING
LOCKSET: CORRIDOR SIDE: CARD READER TO AN ELECTRIC STRIKE. EXTERIOR TRIM LEVER. VANDAL RESISTANT
ROOM SIDE: PANIC DEVICE
CLOSER: SURFACE MOUNTED, OVERHEAD WITH INTEGRAL STOP
KICK PLATE: ROOM SIDE STAINLESS STEEL
SEALS: SMOKE SEALS
DOOR SWEEP: SURFACE MOUNTED
THRESHOLD: ALUMINUM , THERMALLY BROKEN.

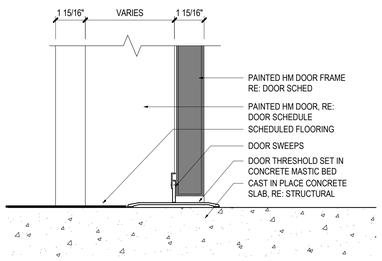
SET 002
DOOR 002: VENDOR
3' X 7' HM DOOR WITH HM FRAME SET IN CMU BLOCK WALL
RATING: 45 MIN.
HINGES: 3 BALL BEARING
LOCKSET: STORAGE FUNCTION
EXTERIOR TRIM: LEVER, VANDAL RESISTANT.
KICKPLATE: ROOM SIDE, STAINLESS STEEL
CLOSER: OVERHEAD, WITH INTEGRAL STOP
SEALS: SMOKE
DOOR SWEEP: SURFACE MOUNTED
THRESHOLD: ALUMINUM , THERMALLY BROKEN

*DOOR SWING VARIES W/ EGRESS PATH

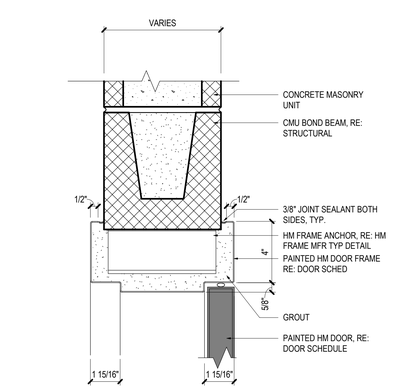
03 H-03
SCALE: 3" = 1'-0"

*DOOR SWING VARIES W/ EGRESS PATH

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

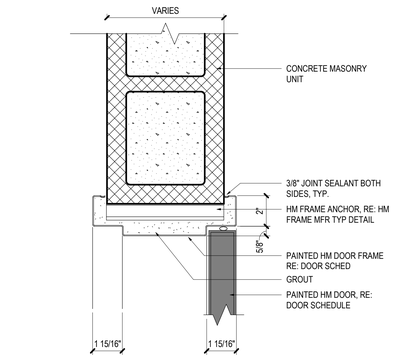


05 S-01
SCALE: 3" = 1'-0"



*DOOR SWING VARIES W/ EGRESS PATH

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



*DOOR SWING VARIES W/ EGRESS PATH

02 J-04
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	HM	=	HOLLOW METAL
BS	=	BLDG STANDARD	NR	=	NON FIRE RATED
CL	=	CLEAR	PG	=	PAINT GRADE
(E)	=	EXISTING	PT	=	PAINT
FH	=	FULL HEIGHT	SC	=	SOLID CORE
FR	=	FIRE RATED	ST	=	STAIN
GL	=	GLASS	TG	=	TEMPERED GLASS
HC	=	HOLLOW CORE	WD	=	WOOD

Steamboat
ALTERRA MOUNTAIN COMPANY
east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

02.08.2021
STATE OF COLORADO
CHRISTOPHER C. GAMRELL
203617
LICENSED ARCHITECT

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
DOOR SCHEDULE AND DETAILS

Scale
As indicated

BP1B-A0.200

AIR / WATER BARRIERS & RETARDERS

TC-01 DESCRIPTION: TRAFFIC COATING
DESCRIPTION (CONT): MODIFIED POLYURETHANE WITH TREMPRIME PRIMER ON CONCRETE LAYER. BRAODCAST SAND OVER BASE COAT AND BACKROLL SAND INTO TOP COAT.
MANUFACTURER: TREMCO
MODEL NAME: VULKEM 350/950
COLOR: SELECTED FROM MANUFACTUERES STANDARDS

VR-01 DESCRIPTION: UNDER SLAB VAPOR RETARDER
MANUFACTURER: STEGO WRAP (BASIS OF DESIGN)
THICKNESS: 15 MIL

INSULATIONS

INS-01 DESCRIPTION: GLASS FIBER BLANKET INSULATION
MANUFACTURER: CERTAINTEED
MODEL NAME: CERTAPRO THERMAL FSK-25 FACED BATTS
THICKNESS: AS INDICATED ON THE ASSEMBLIES

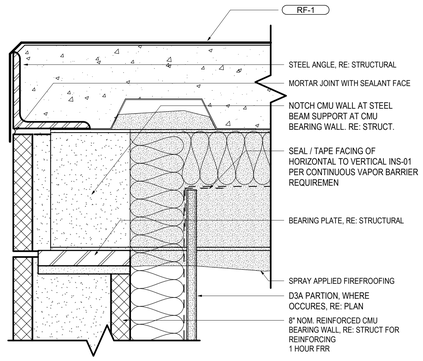
FINISHES

CN-01 DESCRIPTION: SEALED CONCRETE
FINISH: SEALED PER SPECIFICATIONS

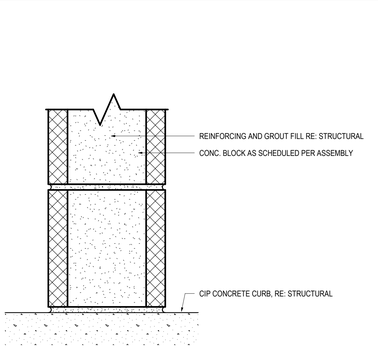
PT-01 DESCRIPTION: INTERIOR PAINT
MANUFACTURER: BENJAMIN MOORE
MODEL NUMBER: OC-65
COLOR: CHANTILLY LACE
FINISH: EGGSHELL ON WALLS, SEMI-GLOSS @ DOORS, FRAMES, BASE & TRIM
NOTE: NO VOC PAINT

SCRF-01 DESCRIPTION: STATIC-CONTROL FLOORING
DESCRIPTION (CONT): MUTLI-LAYER, VULCANIZED CONDUCTIVE RUBBER THAT MEETS OR EXCEEDS ALL ESD CONTROL STANDARDS WHEN TESTED BY ASTM F-150, NFPA 99, ANSI/ESD S7.1-2005 AND UL 779.)
MANUFACTURER: ARMSTRONG
SIZE: 12" X 12"
NOTE: PREP FLOOR AS REQ. PER MANUFACTURER'S RECOMMENDATION

MATERIAL SCHEDULE



M T01

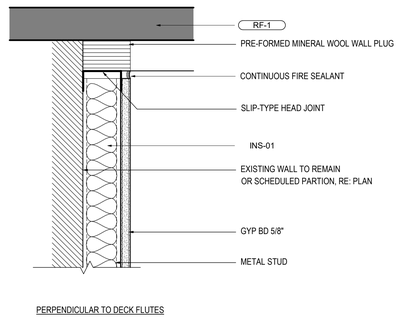


RE: STRUCTURAL DRAWINGS FOR ANY REINFORCING AT WALL BASE

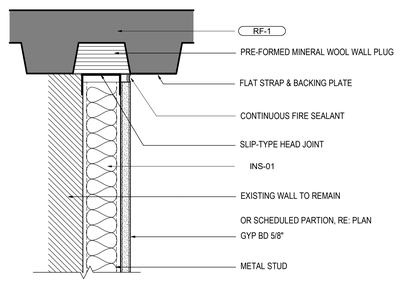
M B01

RE: STRUCTURAL DRAWINGS FOR ANY REINFORCING AT WALL BASE

M B02

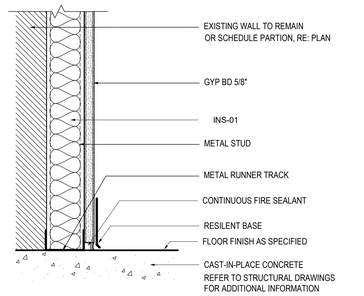


PERPENDICULAR TO DECK FLUTES

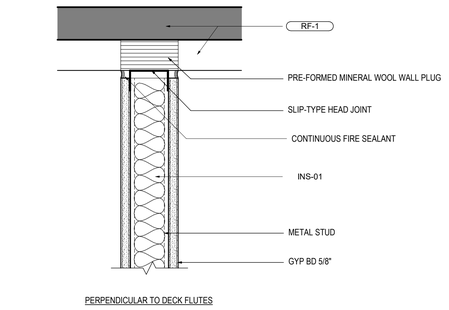


PARALLEL TO DECK FLUTES

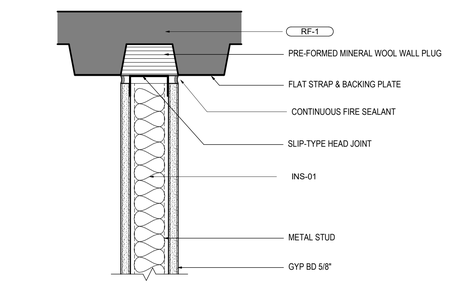
D T01



D B01

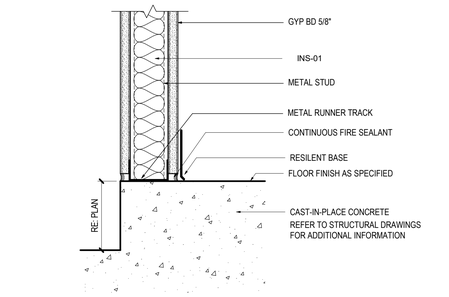


PERPENDICULAR TO DECK FLUTES

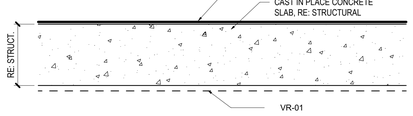


PARALLEL TO DECK FLUTES

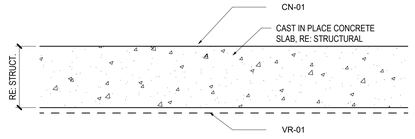
A T01



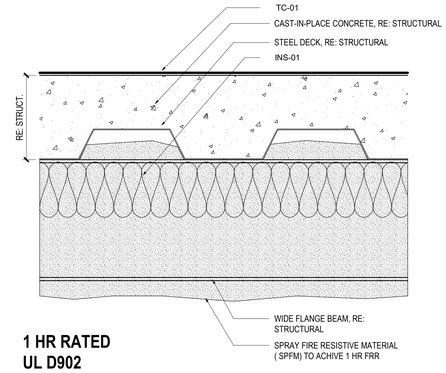
A B03



01 FLOOR ASSEMBLY - FL-1
SCALE: 3" = 1'-0"

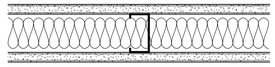


02 FLOOR ASSEMBLY - FL-2
SCALE: 3" = 1'-0"



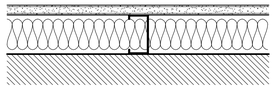
1 HR RATED
UL D902

03 ROOF ASSEMBLY - RF-1
SCALE: 3" = 1'-0"



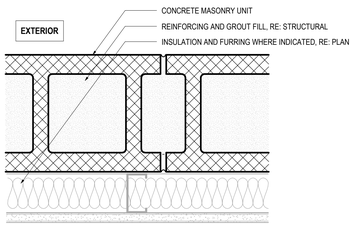
PARTITION TYPE MARK	FRAMING THK (IN)	FRAMING DEPTH	FRAMING SPACING	DETAILS TOP	DETAILS BOT	ATTEN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
A3A	30 MILS	3 5/8"	16" O.C.	A T01	A B03	INS-01, 3.5"		N/A	N/A	

04 A SERIES PARTITION TYPES
SCALE: 3" = 1'-0"



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

05 D SERIES PARTITION TYPES
SCALE: 3" = 1'-0"



PARTITION TYPE MARK	CMU THK (IN)	DETAILS TOP	DETAILS BOT	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
M8A	8"	M T01	M B01	1	IBC Table 721.1	N/A	
M8B	8"	M T01	M B02	1	IBC Table 721.1	N/A	

1 HR RATED

06 M SERIES PARTITION TYPES
SCALE: 3" = 1'-0"

PARTITION NOTES

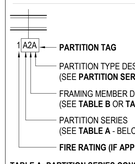


TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

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 DESIGNATION	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8" FURRING CHANNEL		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 DESIGNATION	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

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners
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 CONSULTANTS, INC.
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
1 2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO JONATHAN C. SMITH 203617 LICENSED ARCHITECT
02.08.2021

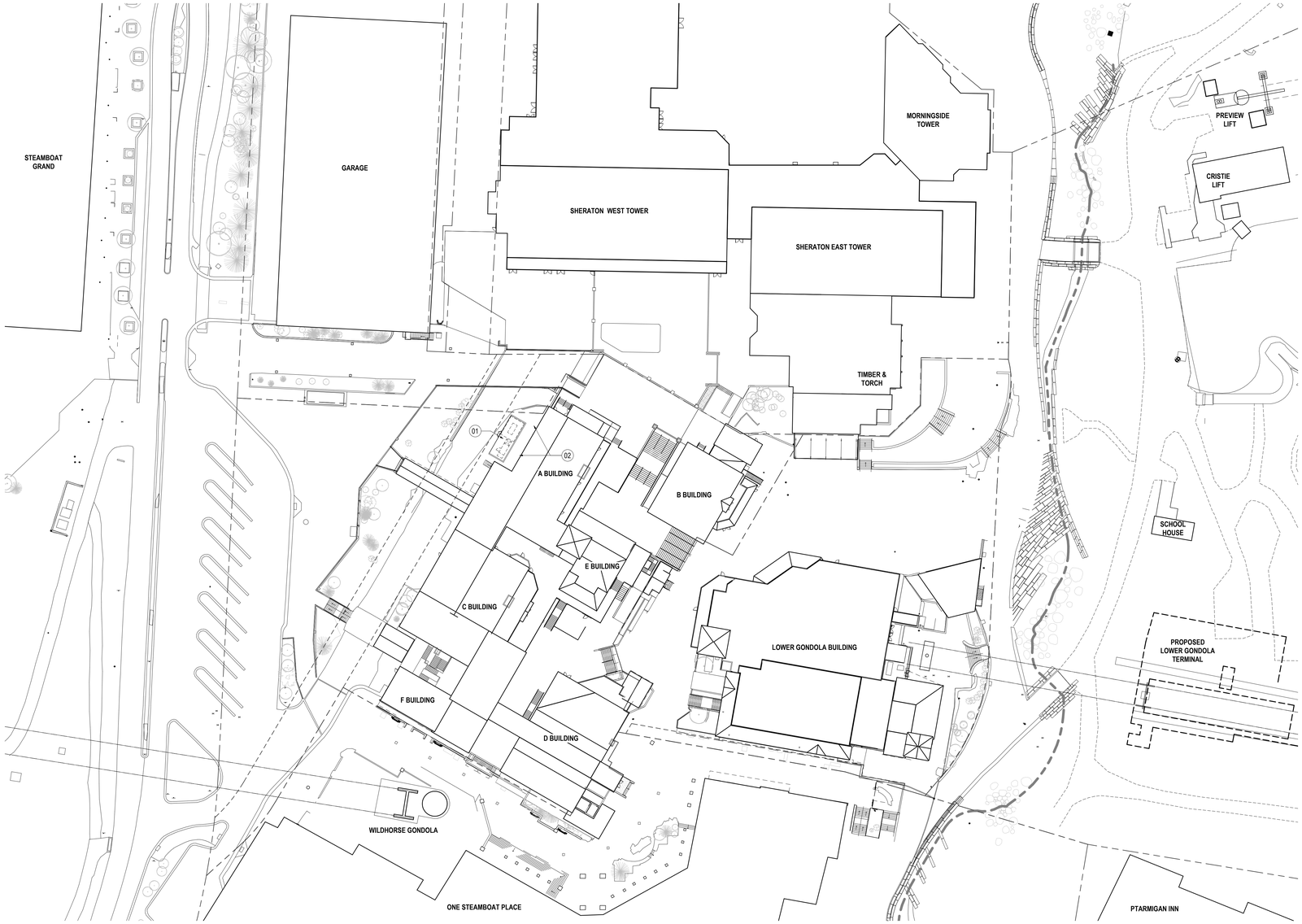
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
PARTITION, MATERIAL, AND ASSEMBLY SCHEDULES

Scale
3" = 1'-0"

BP1B-A0.400



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

SHEET NOTES

01 GENERATOR AND MECHANICAL EQUIPMENT, SCREENED, LANDSCAPED BEHIND
02 EXISTING TREES TO BE REMOVED

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
JOSHUA CHARLES CAMPBELL
203617
LICENSED ARCHITECT
02.08.2021

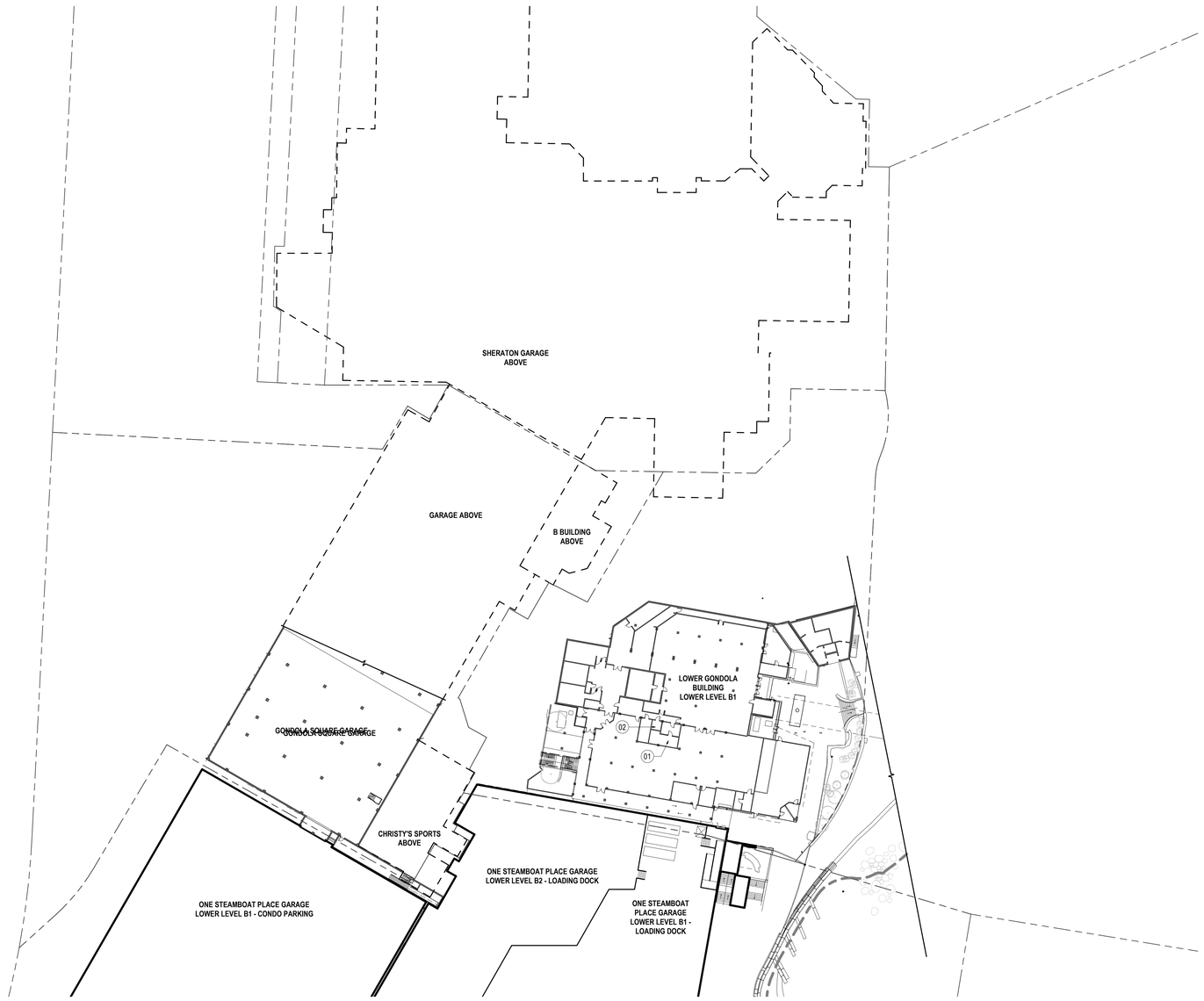
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
SITE PLAN

Scale
1" = 40'-0"
Ref North

BP1B-A1.000



1 COMPOSITE PLAN - LOWER LEVEL B1

SCALE: 1" = 40'-0"

NO ARCHITECTURAL WORK ON THIS LEVEL: PROVIDED FOR REFERENCE ONLY

SHEET NOTES

01 EXISTING SERVER ROOM
02 EXISTING VENDOR ROOM

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
GREGORY CAMPBELL
203617
LICENSED ARCHITECT
02.08.2021

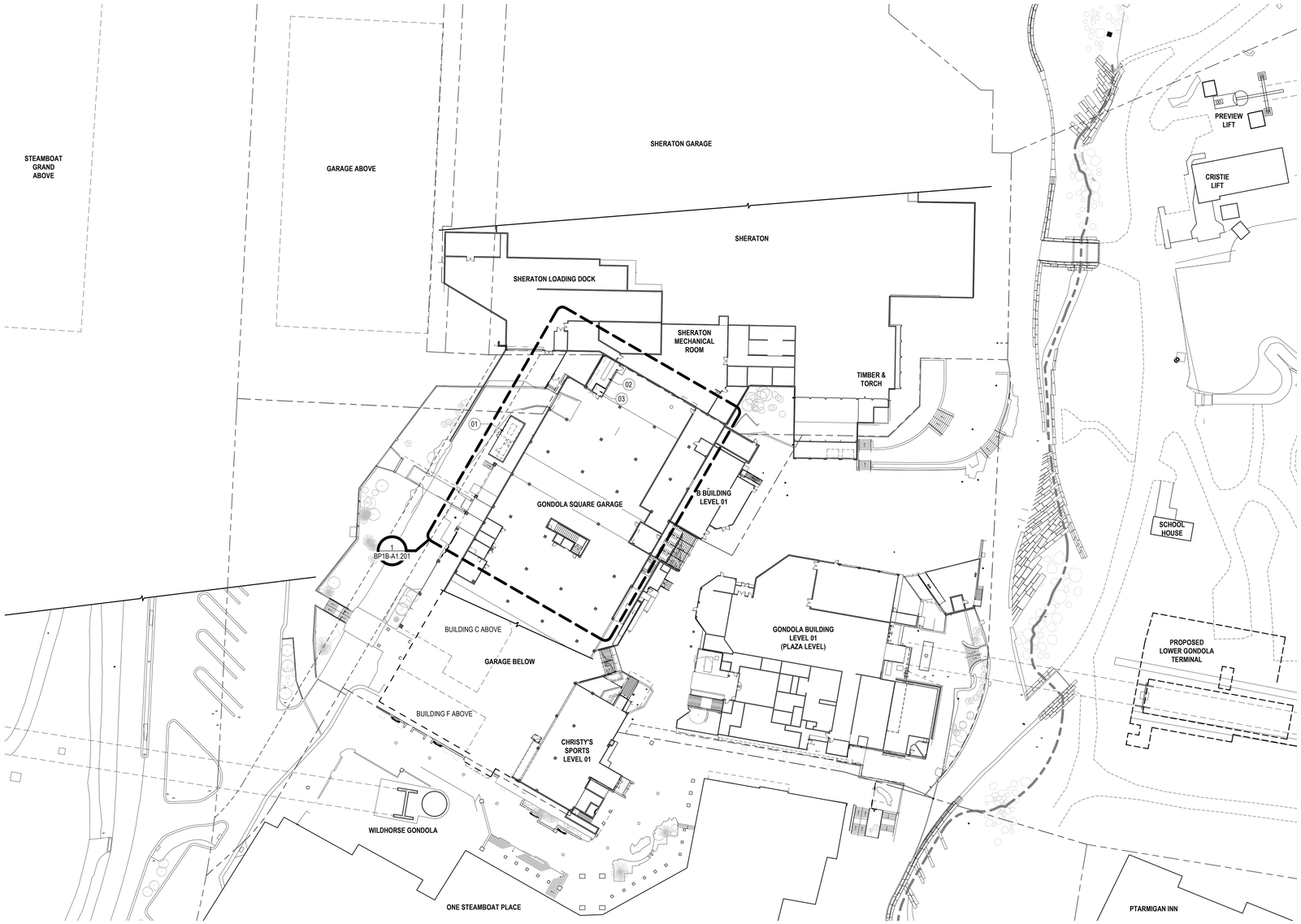
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
COMPOSITE PLAN - LOWER LEVEL B1

Scale
1" = 40'-0"
Ref North

BP1B-A1.100



1 COMPOSITE PLAN - LEVEL 01 (PLAZA)
SCALE: 1" = 40'-0"

SHEET NOTES

01 NEW MECHANICAL EQUIPMENT SCREENED ENCLOSURE
02 NEW SERVER ROOM 100
03 NEW VENDOR ROOM 101

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
JOSEPH CHARLES GRIMMER
203617
LICENSED ARCHITECT
02.08.2021

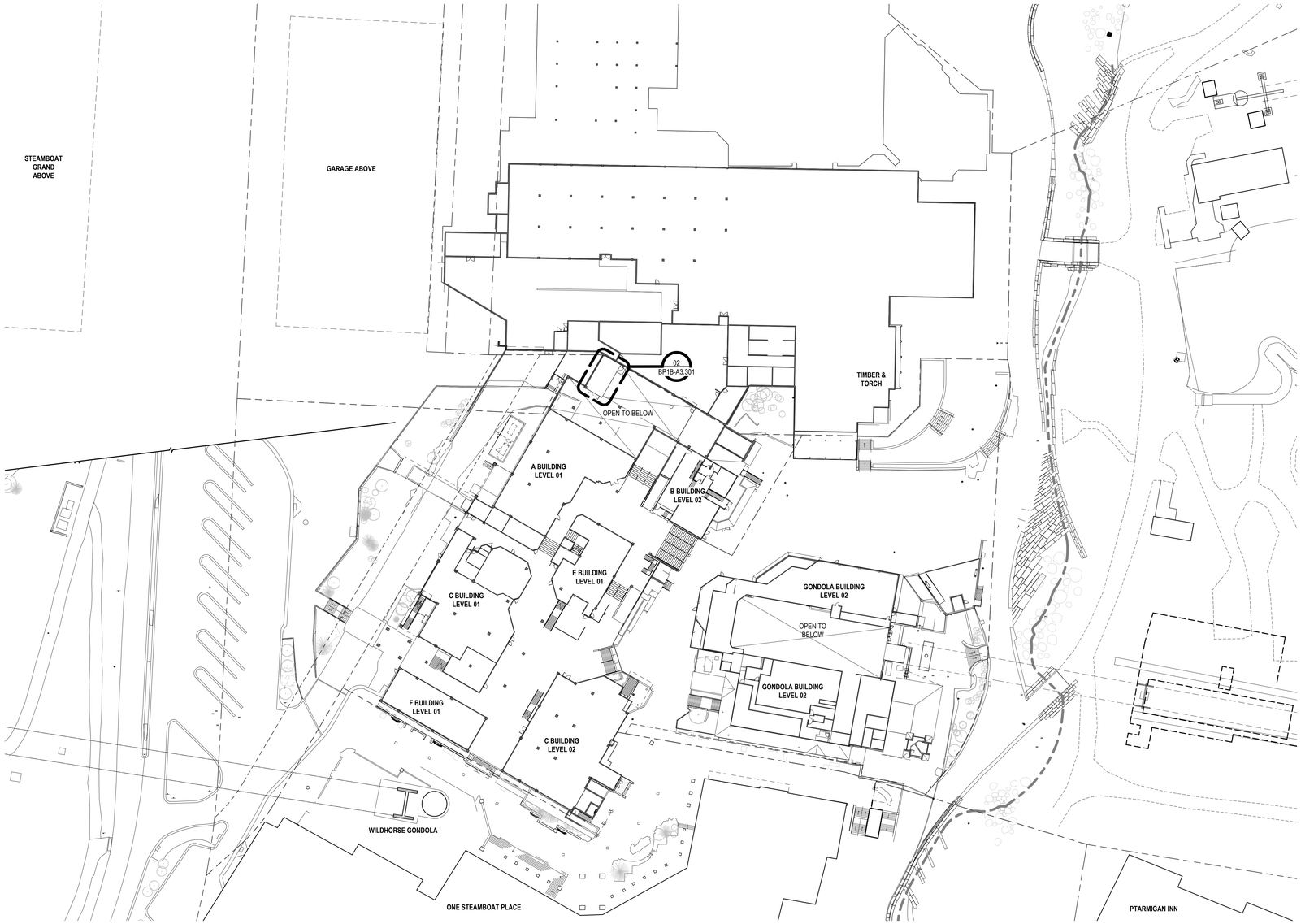
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
COMPOSITE PLAN - LEVEL 01

Scale
1" = 40'-0"
Ref North

BP1B-A1.101



1 COMPOSITE PLAN - LEVEL 02
SCALE: 1" = 40'-0"

SHEET NOTES

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO · CHARLES G. GIMBEL · 203617 · LICENSED ARCHITECT
02.08.2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
COMPOSITE PLAN - LEVEL 02

Scale
1" = 40'-0"
Ref North

BP1B-A1.102

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

SHEET NOTES

01 RETAINING WALL, RE: STRUCTURAL
02 GENERATOR, RE: ELECTRICAL
03 CONDENSOR, RE: MECHANICAL
04 SCREEN FENCE AND GATES, RE: LANDSCAPE
05 EXISTING DEMARC

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO · JON CHARLES GISSING · 203617 · LICENSED ARCHITECT
02.08.2021

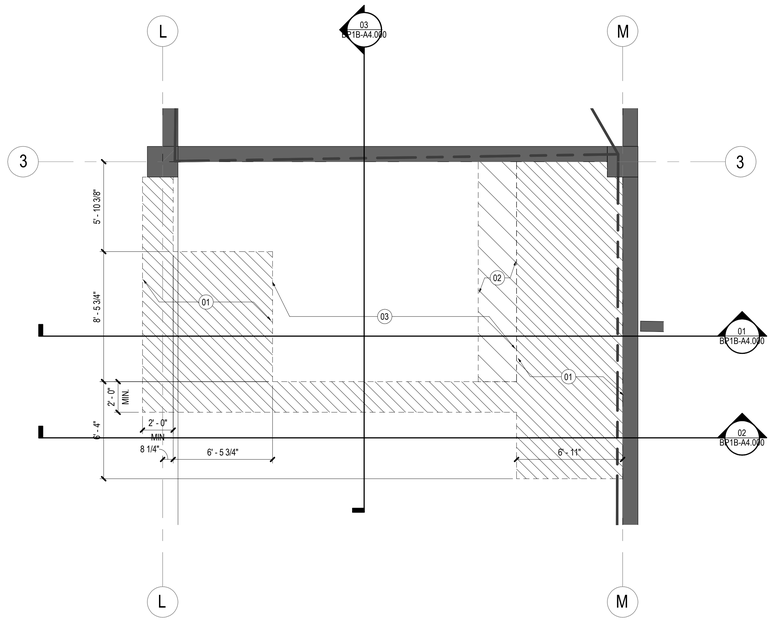
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
CONSTRUCTION PLAN - LEVEL 01

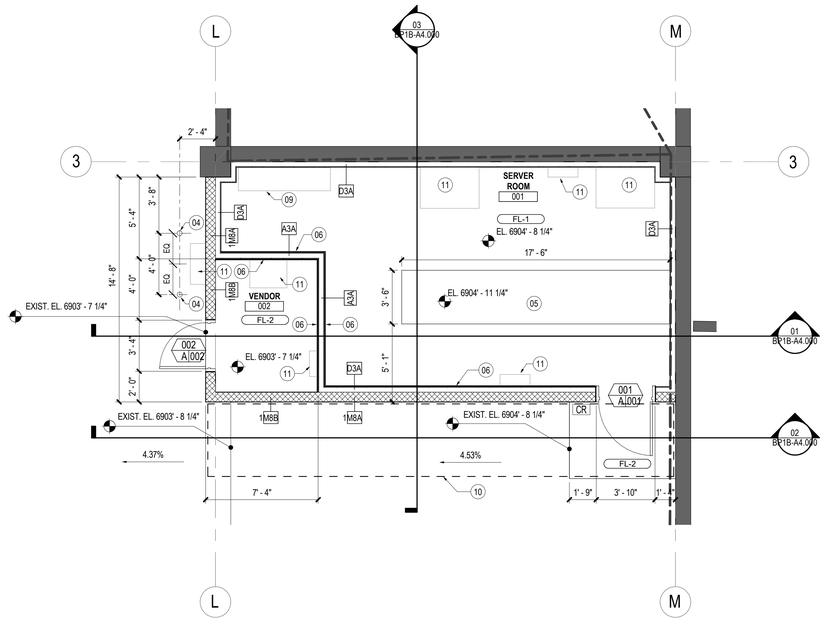
Scale
1/8" = 1'-0"

BP1B-A1.201



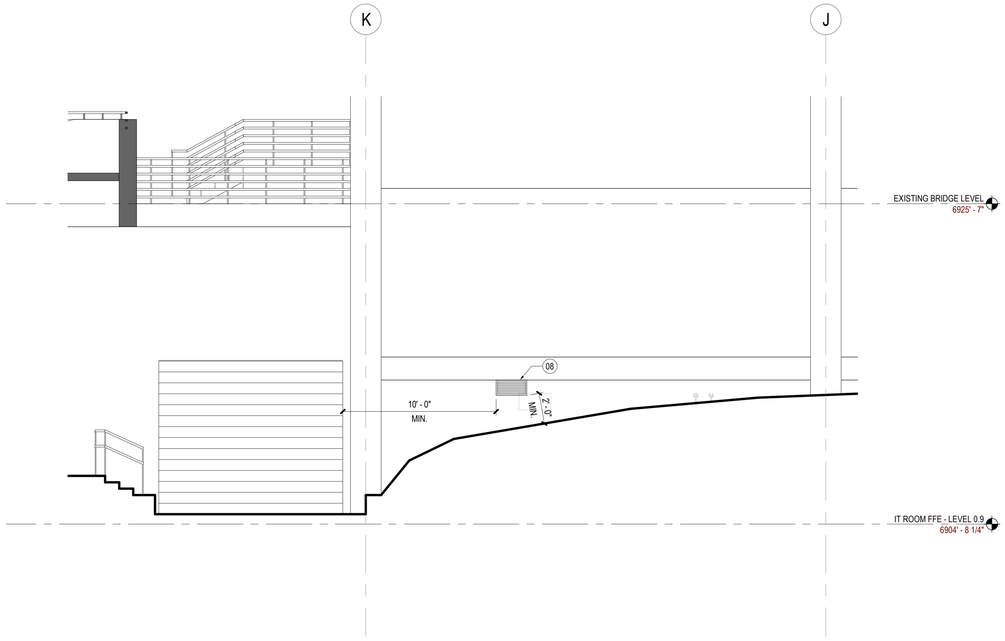
03 ENLARGED DEMO FLOOR PLAN

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



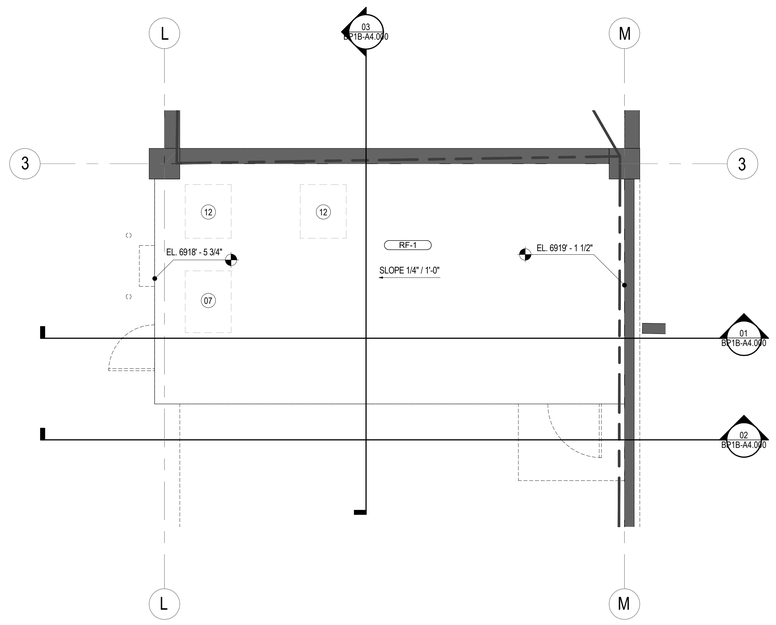
01 ENLARGED FLOOR PLAN

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



04 EXTERIOR ELEVATION - NORTH WEST GARAGE WALL

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



02 ENLARGED ROOF PLAN

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

SHEET NOTES

01 DEMO EXISTING SLAB
02 PARTIALLY CHIP DOWN EXISTING SLAB SO AT LEAST 1 1/2" OF NEW CONCRETE CAN BE PLACED ON TOP OF EXISTING SLAB, RE: STRUCTURAL
03 ROUGHEN EXISTING SLAB REMAINING WITHIN PERIMETER OF DEMO EXTENT
04 CONCRETE FILLED STEEL BOLLARDS, PAINTED SAFTEY YELLOW
05 CONCRETE HOUSEKEEPING PAD
06 PLYWOOD BACKBOARD, RE: TELEDATA
07 ELECTRICAL TRANSFORMER, HUNG FROM STRUCTURE ABOVE
08 FRESH AIR INTAKE LOUVER, RE: MECHANICAL, SAW CUT OPENING IN (E) CIP CONC. WALL PROVIDE 2 CONTINOUS LINES OF BACKER ROD AND SEALANT AT PERIMETER
09 WORKBENCH
10 PROVIDE DIAGONALLY STRIPED EPOXY PAINT, AT EGRESS PATH. COLOR: SAFTEY YELLOW. STRIPES SHALL BE AT 45 DEGREE ANGLE SPACED 24" O.C. STRIPES SHALL BE 4" WIDE. PROVIDE 4" BORDER
11 ELECTRICAL EQUIPMENT, RE: ELECTRICAL
12 MECHANICAL EQUIPMENT, HUNG FROM STRUCTURE ABOVE

DEMOLITION NOTES

ARCHITECTURAL
1. VERIFY WITH BUILDING OWNER OR BUILDING MANAGER DISPOSITION OF ALL RE-USABLE DEMO'D MATERIALS AND EQUIPMENT PRIOR TO START OF WORK.
2. REF. ARCHITECTURAL AND MEP DRAWINGS. COORD SCOPE OF DEMOLITION WITH ARCHITECTURAL AND MEP.
3. DEMO ALL DOOR ASSEMBLIES INC. @ BUILDING CORE PER DOOR SCHEDULE.
4. DEMO ALL PARTITIONS, MILLWORK, PLUMBING AND EQUIPMENT THROUGHOUT.
5. REMOVE ALL CEILING, GRID, LIGHTS FIXTURES, SUPPORTS AND BRACING THROUGHOUT, U.O.N.
6. DEMO ALL EXISTING FINISHES THROUGHOUT. PREP SLAB AS REQUIRED FOR NEW FINISHES.

HVAC
1. DEMO ALL EXISTING DIFFUSERS, REGISTERS, EXHAUST FANS AND THERMOSTATS.
2. COORDINATE REMOVAL AND /OR RELOCATION OF MECHANICAL UNITS IN PLENUM SPACE WITH MEP DRAWINGS. RELOCATION OF UNITS REQUIRED BY NEW CONSTRUCTION SHALL BE COORDINATED WITH DEMOLITION WORK.
3. DEMO EXISTING MECHANICAL DUCTS TO TRUNK, VERIFY WITH MEP PRIOR TO THE START OF ANY MECHANICAL DEMO WORK.
4. REMOVE ALL ABANDONED SMOKE FIRE DAMPERS AS REQUIRED BY NEW CONSTRUCTION, INCLUDING ALL ELECTRICAL AND CONNECTIONS.
5. CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND CONTINUITY OF THE EXISTING BASE BUILDING SYSTEMS AND SHALL EXERCISE CARE BY NOT DEMOLISHING, OR DISRUPTING ANY BASE BUILDING SYSTEMS. ANY DAMAGED AND/OR DISCONNECTED SERVICE SHALL BE RESTORED AT CONTRACTOR'S COST.

ELECTRICAL
1. REMOVE ALL LIGHT FIXTURES, EXIT SIGNS, LIGHT SWITCHES, POWER AND TELE/DATA OUTLETS. REMOVE ALL BRANCH CIRCUIT FEEDERS, INCLUDING CONDUITS, BOXES AND WIRING BACK TO ELECTRICAL PANELBOARDS. CONTRACTOR SHALL SWITCH ALL SPARE BREAKERS TO OFF POSITION FOR FUTURE REFERENCE. ALL ABANDONED CONDUIT AND CABLING SHALL BE COMPLETELY REMOVED BACK TO ORIGIN.
2. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY WORK. CONTRACTOR SHALL REWORK BRANCH FEEDER HOME-RUNS AS REQUIRED TO KEEP CONTINUITY TO EXISTING LIGHT FIXTURES, EXIT SIGNS AND DEVICES IN AREAS NOT BE DEMOLISHED.
3. DISPOSE OR STORE REMOVED MATERIAL AND EQUIPMENT AS DIRECTED BY OWNER.

PLUMBING
1. IN DEMOLITION AREAS, UNUSED PIPING SHALL NOT BE ABANDONED "IN PLACE". PIPING SHALL BE REMOVED BACK TO SOURCE OR POINT OF DISCHARGE, AND THE RESULTING OPENINGS PLUGGED U.N.O.
2. EXISTING PLUMBING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF BY THIS CONTRACTOR AS DIRECTED BY THE OWNER.
3. DISCONNECT AND REMOVE EXISTING UNUSED PIPING AND FIXTURES WITHOUT INTERRUPTING EXISTING REQUIRED FUNCTIONING SYSTEMS.
4. UNUSED PIPING AND RELATED ITEMS CONCEALED IN WALLS, FLOORS AND CEILING WITHIN THE STRUCTURE SHALL BE ABANDONED AND REMOVED WHERE EXPOSED TO VIEW. REMOVAL OF EXISTING PIPING SHALL BE DONE IN A SATISFACTORY MANNER TO THE ENGINEER AND BUILDING ENGINEER.
5. WASTE AND SANITARY DRAINAGE PIPING NOT TO BE USED SHALL BE REMOVED AND PLUGGED AT ACTIVE MAIN OR RISER. NO DEADENDS SHALL REMAIN LONGER THAN TWO (2) FEET.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

STATE OF COLORADO
JOHN CHARLES GENSLER
203617
LICENSED ARCHITECT
02.08.2021

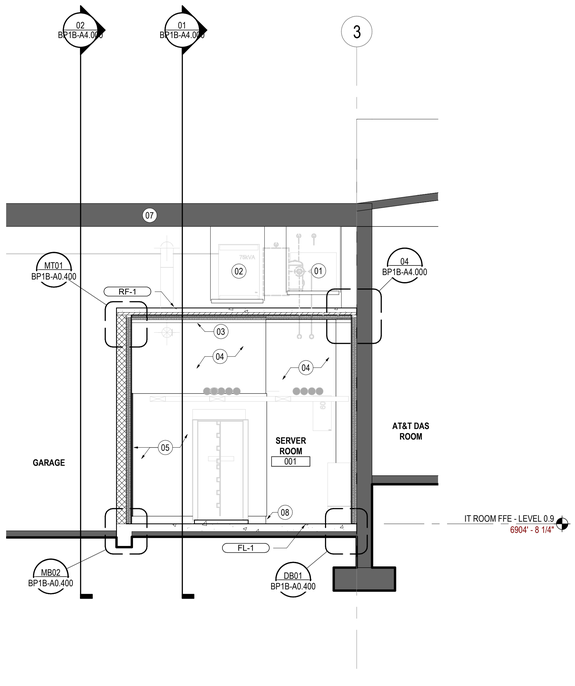
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
ENLARGED PLANS AND ELEVATION

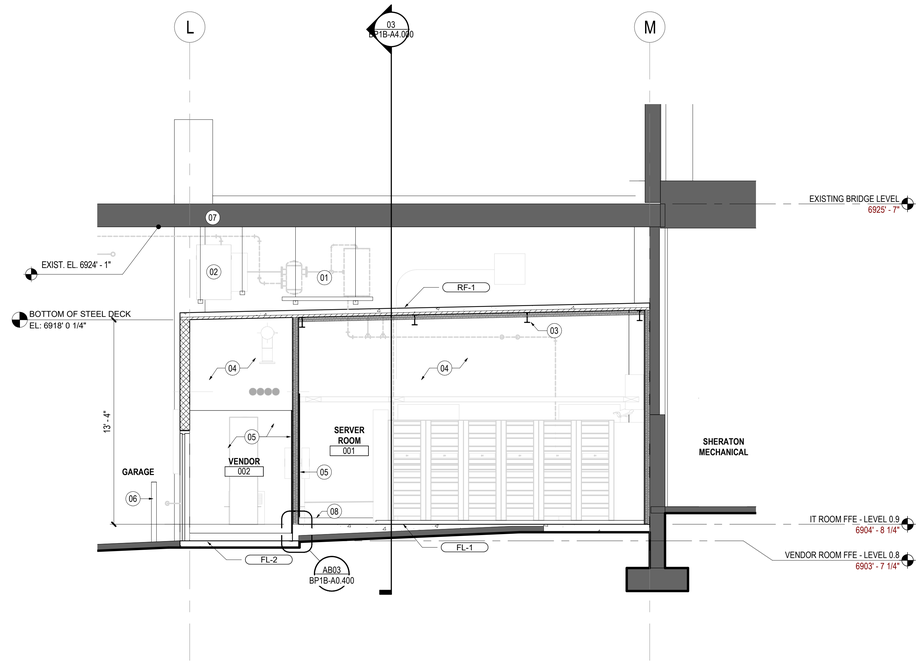
Scale
As indicated

BP1B-A3.301



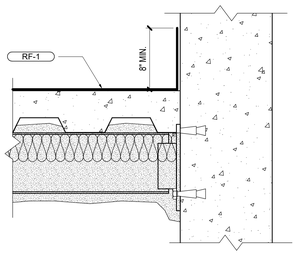
03 BUILDING SECTION - EAST/WEST LOOKING SOUTH

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



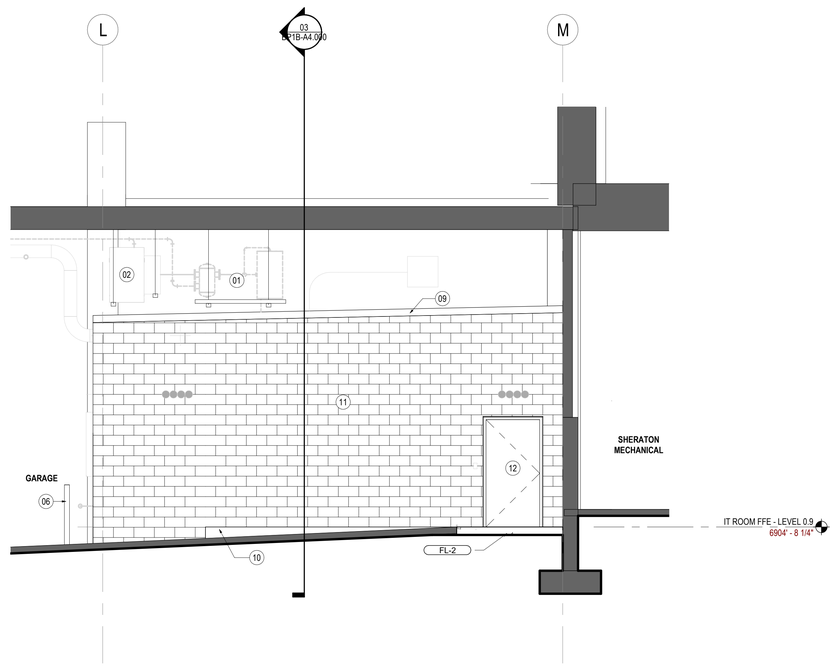
01 BUILDING SECTION - NORTH/SOUTH LOOKING WEST

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



04 DETAIL - ROOF TO EXISTING WALL

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



02 BUILDING SECTION - NORTH/SOUTH LOOKING WEST

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

SHEET NOTES

01 MECHANICAL EQUIPMENT, HUNG FROM STRUCTURE ABOVE USING UNISTUT FRAMING ASSEMBLY
02 ELECTRICAL TRANSFORMER, HUNG FROM STRUCTURE ABOVE, USING UNISTRUT FRAMING ASSEMBLY
03 STEEL BEAMS - RE: STRUCTURAL PROVIDE SRFM, TO ACHIVE 1 HR FRR
04 PTD GWB
05 PLYWOOD BACKBOARD: PROVIDE 4' X 8' X 3/4" AC GRADE FIRE RETARDANT PLYWOOD BACKBOARD MOUNTED ON WALLS AT 6" AFF TO 102" AFF
06 CONCRETE FILLED STEEL BOLLARD, PTD SAFTEY YELLOW
07 (E) CIP CONC. STRUCTURE
08 RESILENT BASE
09 ROOF EDGE COPING, WITH TRAFFIC TOPPING COATING.
10 CONCRETE CURB
11 REINFORMCED CMU WALL
12 PTD HM DOOR AND FRAME

Steamboat
ALTERRA MOUNTAIN COMPANY
east west partners

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 CONSULTANTS, INC.
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
1	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

02.08.2021

STATE OF COLORADO
JOSEPH CHARLES GERBER
203617
LICENSED ARCHITECT

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

SECTIONS / DETAILS

Scale

As indicated

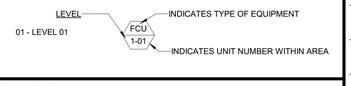
BP1B-A4.000

MISCELLANEOUS

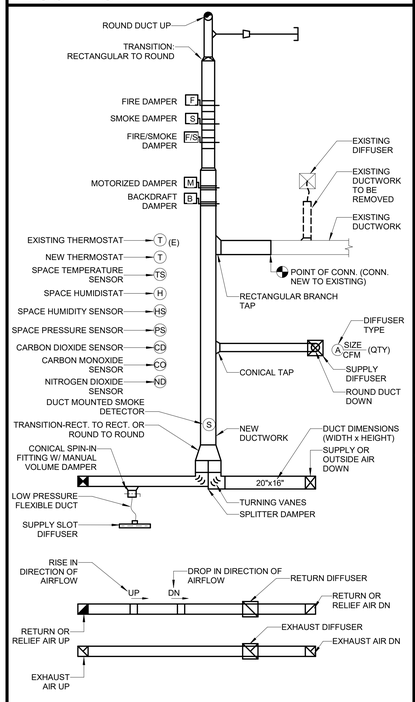
SYMBOL	DESCRIPTION
1 / A101 SIM	SECTION NO. / SECTION VIEW SHEET NO.
A / M1-01	DETAIL DESIGNATION
AHU 1.01	POWERED EQUIPMENT DESIGNATION
VAV 1.01	NON POWERED EQUIPMENT DESIGNATION
TYPE / LENGTH	BASEBOARD EQUIPMENT DESIGNATION
2" 1	SHEET KEY NOTES
	POINT OF DISCONNECTION
	ARROW INDICATES DIRECTION OF FLOW
	EXTERIOR WALL LOUVER (UNDER ARCH. SECTION)
UC	UNDERCUT DOOR (UNDER ARCH. SECTION)
D/L	DOOR LOUVER (UNDER ARCH. SECTION)
L/D	LOUVER DOOR FULL HEIGHT. (UNDER ARCH. SECTION)

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER-4-WAY THROW
	SUPPLY DIFFUSER-3-WAY THROW
	SUPPLY DIFFUSER-2-WAY THROW
	SUPPLY DIFFUSER-1-WAY THROW
	CEILING ACCESS PANEL
	RETURN DIFFUSER
	EXHAUST DIFFUSER
H	HUMIDIFIER
	FLEXIBLE DUCT CONNECTION
	SUPPLY AIR FLOW SYMBOL
	RETURN/EXHAUST AIR FLOW SYMBOL
	HEAT TRACE

EQUIPMENT DESIGNATION



DUCTWORK



PIPING TYPES

DOUBLE LINE PIPING (2" AND ABOVE)	SINGLE LINE PIPING (UP TO 2")	PIPE TYPE
CHS	CHS	CHILLED WATER SUPPLY
CHR	CHR	CHILLED WATER RETURN
HWS	HWS	HEATING WATER SUPPLY
HWR	HWR	HEATING WATER RETURN
CWS	CWS	CONDENSER WATER SUPPLY
CWR	CWR	CONDENSER WATER RETURN
D	D	CONDENSATE DRAIN
HPS	HPS	HIGH PRESSURE STEAM SUPPLY
MPS	MPS	MEDIUM PRESSURE STEAM SUPPLY
LPS	LPS	LOW PRESSURE STEAM SUPPLY
HPR	HPR	HIGH PRESSURE CONDENSATE RETURN
MPR	MPR	MEDIUM PRESSURE CONDENSATE RETURN
LPR	LPR	LOW PRESSURE CONDENSATE RETURN
RS	RS	REFRIGERANT SUCTION
RL	RL	REFRIGERANT LIQUID
RHG	RHG	REFRIGERANT HOT GAS
A	A	CONTROL AIR (PNEUMATIC)
BD	BD	BOILER BLOW DOWN
BF	BF	BOILER FEED
BO	BO	BLOW OFF
CF	CF	CHEMICAL FEEDER
PCS/R	PCS/R	PROCESS COOLING WATER SUPPLY/RETURN
HTWS/R	HTWS/R	HIGH TEMP. HOT WATER SUPPLY/RETURN
PHWS/R	PHWS/R	PRIMARY OR DISTRICT HEATING WATER SUPPLY/RETURN
PCHS/R	PCHS/R	PRIMARY OR DISTRICT CHILLED WATER SUPPLY/RETURN
PR	PR	PUMPED CONDENSATE RETURN
(E)	(E)	EXISTING PIPING
(E)	(E)	EXISTING PIPING TO BE REMOVED

PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
FITTINGS:		
P&T	P&T	PRESSURE/TEMPERATURE PORT TAPS
	CR	CONCENTRIC REDUCER
	ER	ECCENTRIC REDUCER
EJ	EJ	EXPANSION JOINT
	U	UNION
	T	THERMOMETER W/ THERMOWELL
	AV	AIR VENT
	FC	FLEXIBLE PIPE CONNECTOR
FS	FS	FLOW SWITCH
PS	PS	PRESSURE SWITCH
	PG	PRESSURE GAUGE W/ GAUGE COCK
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		PIPE CAP OR PLUG
	IV	ISOLATION VALVE, RE: SPECS
OS&Y	OS&Y	OUTSIDE STEM AND YOKE
	DV	DRAIN VALVE W/ HOSE END CONNECTION
		BALL VALVE W/ HOSE CONNECTION
	CV	CHECK VALVE WITH INDICATION OF FLOW DIRECTION
PRV	PRV	PRESSURE REDUCING VALVE
S	SV	SOLENOID VALVE
F / C	FCV	AUTO FLOW CONTROL VALVE W/ TEST PORTS
CS,BV	CS,BV	CIRCUIT SETTER OR BALANCING VALVE
	GLV	GLOBE VALVE (STRAIGHT PATTERN)
	GLV	GLOBE VALVE (ANGLE PATTERN)
	BFV	BUTTERFLY VALVE
	BV	BALL VALVE
	TCV	AUTOMATIC TEMPERATURE CONTROL VALVE, 2-WAY
	TCV	AUTOMATIC TEMPERATURE CONTROL VALVE, 3-WAY
	BV	BALANCING VALVE
	TMP	TEMPERATURE/PRESSURE RELIEF VALVE
		VALVE IN RISER
STR	STR	STRAINER W/ BLOW-OFF & CAPPED HOSE END CONNECTION
	ST	STEAM TRAP

ABBREVIATIONS:

A

ABBREVIATION	DESCRIPTION
A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
	AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
	AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AMERICAN REFRIGERANT INSTITUTE
ARCH	ARCHITECT
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT
	AIR VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

ABBREVIATION	DESCRIPTION
B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BM	BENCHMARK
BOD	BOTTOM OF DUCT (AFF)
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
	BREAK TANK
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

ABBREVIATION	DESCRIPTION
C	CELSIUS
CAB	CABINET
CAV	CONSTANT AIR VOLUME
CB	CATCH BASIN
CC	COOLING COIL
CD	CONDENSATE DRAIN LINE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRIGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CON	CONVERTER
CONC	CONCRETE
	CONCENTRIC
COND	CONDENSER
	CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS
	CONTINUATION
CONTR	CONTROLLER
	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CRAC	COMPUTER ROOM A/C UNIT
CRT	CATHODE RAY TUBE
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CTR	CENTER
CU	COPPER
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CV	CONSTANT VOLUME

D

ABBREVIATION	DESCRIPTION
dB	DECIBEL
DB	DRY-BULB
DC	DOUBLE DUCT CONSTANT VOLUME
	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DEFL	DEFLECTION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DP	DISCHARGE PLENUM
DPR	DAMPER
DS	DOUNSPOUT
	DOUBLE SUCTION
DV	DOUBLE DUCT VAV
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DX	DIRECT EXPANSION

E

ABBREVIATION	DESCRIPTION
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDF	ELECTRIC DRINKING FOUNTAIN
EDH	ELECTRIC DUCT HEATER
EDR	EFFECTIVE DIRECT RADIATION
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
EMRG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
ENT	ENTERING
ES	END SUCTION
	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

ABBREVIATION	DESCRIPTION
F	DEGREE FAHRENHEIT
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL SWITCH
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
	FIRE DAMPER
FDS	FIRE DEPARTMENT SIAMESE
FDV	FIRE DEPARTMENT VALVE
FG	FIBERGLASS
FF	FINAL FILTER
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FAN POWERED MIXING BOX
	FIRE PUMP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FRIC	FRICTION
FRZR	FREEZER
FS	FLOW SWITCH
	FIRE SPRINKLER
FSK	FLOOR SINK
FT	FOOT
	FEET
FT WC	FEET, WATER COLUMN
FUT	FUTURE

G

ABBREVIATION	DESCRIPTION
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GSH	GRAND SENSIBLE HEAT
GV	GATE VALVE

H

ABBREVIATION	DESCRIPTION
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
	HUB DRAIN
HF	HUMIDIFIER
HORIZ	HORIZONTAL
HP	HORSEPOWER
	HALON PANEL
HPU	HEAT PUMP UNIT
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HU	HUMIDIFIER SECTION
HW	HOT WATER
HWC	HOT WATER CIRCULATOR
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ABBREVIATION	DESCRIPTION
ID	INSIDE DIAMTER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
IN WC	INCH, WATER COLUMN
INSUL	INSULATION
INT	INTERNAL
	INTERIOR
IW	INDIRECT WASTE

J

ABBREVIATION	DESCRIPTION
JB	JUNCTION BOX
JP	JOCKEY PUMP

K

ABBREVIATION	DESCRIPTION
KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT AMPS
KW	KILOWATT

L

ABBREVIATION	DESCRIPTION
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

ABBREVIATION	DESCRIPTION
MA	MAKE-UP AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MTL	METAL
MU	MAKE-UP
MUA	MAKE-UP AIR UNIT
MVD	MANUAL VOLUME DAMPER

N

ABBREVIATION	DESCRIPTION
(N)	NEW
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO	NUMBER
NTS	NOT TO SCALE

O

ABBREVIATION	DESCRIPTION
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
	OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

ABBREVIATION	DESCRIPTION
P	PUMP
	PLUMBING EQUIPMENT
PC	PLUMBING CONTRACTOR
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP
	PLANTER DRAIN
PF	PRE-FILTER
PH	PHASE
	POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRI	PRIMARY
PRS	PRIMARY REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH, GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PWL	SOUND POWER LEVEL

Q

ABBREVIATION	DESCRIPTION
QTY	QUANTITY

R

ABBREVIATION	DESCRIPTION
(R)	REMOVE
	RELOCATE
RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE
	REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
	REVISE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RKVA	RUNNING KILOVOLT AMPS
RKW	RUNNING KILOWATTS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
	REFRIGERANT MACHINE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

ABBREVIATION	DESCRIPTION
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAN	SANITARY SEWER
SAR	SUPPLY AIR REGISTER
SCHED	SCHEDULE
SCFM	STANDARD AIR CUBIC FEET PER MINUTE
SCR	SILICON CONTROLLED RECTIFIER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SKVA	STARTING KILOVOLT AMPS
SKW	STARTING KILOWATTS
SM	SHEET METAL
SP	STATIC PRESSURE
	SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
ST	SOUND TRAP

T

ABBREVIATION	DESCRIPTION
TC	TEMPERATURE CONTROL
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TG	TRANSFER GRILLE
TH BLK	THRUST BLOCK
TOD	TOP OF DUCT (AFF)
TOP	TOP OF PIPE (AFF)
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL

U

ABBREVIATION	DESCRIPTION
U	URINAL
UF	UNDERFLOOR
U/S	UNDERSLAB
UCD	UNDERCUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UTR	UP THROUGH ROOF

V

ABBREVIATION	DESCRIPTION
V	VOLT, VENT
VA	VOLT-AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX
	VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREUENCY DRIVE
VB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VR	VARIABLE AIR VOLUME REHEAT
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF

W

ABBREVIATION	DESCRIPTION
W	WATT, WASTE, WIDTH
W/	WITH
W/O	WITHOUT
WB	WETBULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WATER FILTER
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC
WT	WATER TIGHT
	WEIGHT

Y

ABBREVIATION	DESCRIPTION
Y	YARD HYDRANT

Z

ABBREVIATION	DESCRIPTION
Z	ZONE

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED
MAUREEN E. EDWARDS
56806
PROFESSIONAL ENGINEER

02/05/2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

MECHANICAL LEGEND

Scale

1/8" = 1'-0"

BP1B-M0.000

GENERAL MECHANICAL CONTRACT REQUIREMENTS:

GENERAL:

1. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC, FIRE PROTECTION AND PLUMBING SYSTEMS. CONTRACTOR SHALL FURNISH THESE EVEN IF ITEMS REQUIRED TO ACHIEVE THIS (I.E. OFFSETS, ISOLATION AND BALANCING DEVICES, MAINTENANCE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN.

2. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS OF THE JOB.

3. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE DIVISION 21,22 AND 23 WORK AND ITS INTERFACE WITH OTHER WORK. ESTABLISHING THIS RELATIONSHIP IN THE FIELD IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR. THIS DIVISION SHALL COORDINATE ITS WORK WITH ALL DIVISIONS OF THE WORK AND ADJUST ITS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.

   A. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

   B. CERTAIN SYSTEMS REQUIRE ENGINEERING OF INSTALLATION DETAILS BY CONTRACTOR. UNLESS FULLY DETAILED IN THE CONTRACT DOCUMENTS, SUCH ENGINEERING IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

   C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE CLEARANCES ARE LIMITED, AND WHERE INSTALLATION DRAWINGS OR SCHEMATICS, "CONSTRUCTION DRAWINGS", OR COORDINATION DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH, OR IN EXCESS OF, THOSE REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL PREPARE ALL SUCH COORDINATION DRAWINGS AS PART OF THE BASE CONTRACT SUCH DRAWINGS MAY BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR RECORD AND COMMENT. ANY WORK INSTALLED WITHOUT APPROVED COORDINATION DRAWINGS IS DONE AT THE CONTRACTOR'S RISK.

4. THESE NOTES ONLY SUPPLEMENT, AND DO NOT REPLACE, THE SPECIFICATIONS.

5. DEFINITIONS AND TERMINOLOGY

   A. THE DEFINITIONS OF DIVISION 1 AND THE GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO THE DIVISION 21,22 AND 23 CONTRACT DOCUMENTS.

   B. "CONTRACT DOCUMENTS" CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC., PREPARED BY ENGINEER (OR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER) FOR CONTRACTOR'S BID OR CONTRACTOR'S NEGOTIATIONS WITH THE OWNER. THE DIVISION 21,22 AND 23 DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.

   C. "CONSTRUCTION DOCUMENTS", "CONSTRUCTION DRAWINGS", AND SIMILAR TERMS FOR DIVISION 21,22 AND 23 WORK REFER TO INSTALLATION DIAGRAMS, SHOP DRAWINGS AND COORDINATION DRAWINGS PREPARED BY THE CONTRACTOR USING THE DESIGN CONTENT INDICATED ON THE ENGINEER'S CONTRACT DOCUMENTS. THESE SPECIFICATIONS DETAIL THE CONTRACTOR'S RESPONSIBILITY FOR "ENGINEERING BY CONTRACTOR" AND FOR PREPARATION OF CONSTRUCTION DOCUMENTS.

   D. "(N)" INDICATES "NEW" EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.

   E. "(E)" INDICATES "EXISTING" EQUIPMENT ON SITE WHICH MAY OR MAY NOT NEED TO BE RELOCATED AS A PART OF THIS WORK.

   F. "(R)" INDICATES EXISTING EQUIPMENT TO BE RELOCATED AS PART OF THIS WORK.

   G. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.

   H. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".

   I. "PROVIDE" MEANS TO "FURNISH AND INSTALL".

   J. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE AS DETERMINED BY THE ARCHITECT/ENGINEER.

   K. "WORK BY OTHER(S) DIVISIONS"; "RE: XX DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT/ENGINEER BEFORE SUBMITTING BID.

   L. BY INFERENCE, ANY REFERENCE TO A "CONTRACTOR" OR "SUB-CONTRACTOR" MEANS THE ENTITY WHICH HAS CONTRACTED WITH THE OWNER FOR THE WORK OF THE CONTRACT DOCUMENTS.

   M. "ENGINEER" MEANS THE DESIGN PROFESSIONAL FIRM WHICH HAS PREPARED THESE CONTRACT DOCUMENTS. ALL QUESTIONS, SUBMITTALS, ETC. OF THIS DIVISION SHALL BE ROUTED THROUGH THE ARCHITECT TO THE ENGINEER (THROUGH PROPER CONTRACTUAL CHANNELS).

EXISTING BUILDING:

1. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION. CONTINUED OPERATION OF THE FACILITY SHALL NOT BE HINDERED BY THIS WORK. THE CONTRACTOR SHALL ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED BY HIM DUE TO THE DIFFICULTY OF WORKING OVER AND AROUND EMPLOYEES, DESKS, EQUIPMENT, ETC.; AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE AVAILABLE WHEN SUBMITTING HIS BID.

2. MAINTAIN A MARK-UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SURRENDER DRAWINGS TO OWNER UPON COMPLETION.

3. ALL CAPACITIES ARE SCHEDULED AT JOBSITE ALTITUDE OF 6700 FT. ABOVE SEA LEVEL.

4. COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB AND CONCRETE WALL PRIOR TO COMMENCING WORK UTILIZE X-RAY AND VISUAL INVESTIGATION OF EXISTING CONDITIONS AS REQUIRED PRIOR TO DRILLING OR CUTTING. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.

ELECTRICAL COORDINATION:

1. VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

2. PROVIDE PREMIUM EFFICIENCY MOTORS WITH 1.15 SERVICE FACTOR ON ALL EQUIPMENT. MOTORS SHALL BE CAPABLE OF OPERATING CONTINUOUSLY AT 105°F UNDER JOBSITE CONDITIONS AND ALTITUDE.

3. THE ELECTRICAL POWER FOR CERTAIN EQUIPMENT PROVIDED UNDER DIVISION 21,22 AND 23 HAS NOT BEEN SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS AND MUST BE PROVIDED BY AND FIELD COORDINATED BY THE DIVISION 21,22 AND 23 TRADE REQUIRING SUCH POWER.

   SUFFICIENT POWER FOR THIS PURPOSE SHALL BE FURNISHED AS "SPARE", DEDICATED CIRCUIT CAPACITY IN DIVISION 26'S PANELBOARDS. ALL WIRING, CONDUIT AND ELECTRICAL DEVICES DOWNSTREAM OF THE PANELBOARDS IS THE RESPONSIBILITY OF THE DIVISION 21,22 AND 23 TRADE REQUIRING THE POWER UNLESS OTHERWISE SHOWN ON THE ELECTRICAL DRAWINGS.

   SUCH EQUIPMENT IS HEREBY DEFINED AS:

   A. FIRE PROTECTION COMPONENTS REQUIRING ELECTRICAL POWER. REQUIRED CONNECTIONS ARE INCLUDED IN THE DIVISION 21 WORK, AND WILL BE SHOWN BY THAT CONTRACTOR'S ENGINEERED SYSTEM DESIGN DRAWINGS.

   B. IT IS NOT PERMISSIBLE TO UTILIZE "SPARE" POWER FROM ADJACENT POWER CIRCUITS TO SERVE ANY OF THE ABOVE LOADS. ALL POWER MUST COME FROM DEDICATED CIRCUITS.

5. SMOKE DETECTORS:

   FOR AIR HANDLING UNITS AND AIR SYSTEMS WITH A CAPACITY EXCEEDING 2000 CFM, PROVIDE UL LISTED SMOKE DETECTORS IN RETURN AIR SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND ELSEWHERE AS SHOWN ON THE DRAWINGS.

   SMOKE DETECTORS WILL BE FURNISHED AND SET IN PLACE UNDER THIS DIVISION. DETECTORS WILL BE WIRED UNDER DIVISION 28. SMOKE DETECTORS MUST BE OF THE SAME MANUFACTURER, AND COMPATIBLE WITH THE FIRE FLAME SYSTEM PROVIDED UNDER DIVISION 28 (IF APPLICABLE).

   CONNECT RELAY(S) TO FAN CONTROL CIRCUIT TO STOP FAN WHEN SMOKE IS DETECTED.

INSTALLATION:

1. SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DUCTWORK SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE OTHERWISE SHOWN.

2. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

3. PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE AROUND ALL EQUIPMENT REQUIRING SAME.

4. PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS AND PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED.

5. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, CLEANOUTS, ACTUATORS AND CONTROLS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.

   A. FOR EQUIPMENT LOCATED IN "ACCESSIBLE LOCATIONS" SUCH AS LAY-IN CEILINGS: LOCATE EQUIPMENT TO PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REMOVING ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS SUCH AS THE CEILING SUPPORT SYSTEM, ELECTRICAL FIXTURES, ETC. "NORMAL MAINTENANCE" INCLUDES, BUT IS NOT LIMITED TO FILTER CHANGING; GREASING OF BEARINGS; USING P/T PORTS FOR PRESSURE OR TEMPERATURE MEASUREMENTS; SERVICING CONTROL VALVES AND SERVICING CONTROL PANELS.

6. ISOLATE ALL PRESSURIZED PIPE (WATER, ETC.) AT EACH RISER, BRANCH, PIECE OF EQUIPMENT, AND AREA SERVED.

7. WARRANTY: AT A MINIMUM, THE ENTIRE MECHANICAL SYSTEM SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC WARRANTY REQUIREMENTS.

DUCTWORK INSTALLATION:

1. SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIR TIGHT WITH SEALANT PER SPECIFICATIONS.

2. DUCT DIMENSIONS ARE INSIDE CLEAR.

3. DIFFUSER NECK SIZE IS SAME AS FLEXIBLE DUCT SIZE.

4. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.

5. WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE MITERED ELBOWS WITH TURNING VANES AS FOLLOWS:

   A. FOR DUCT WIDTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH TURNING VANES, WITH NO TRAILING EDGES AND SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR "STANDARD SPACING".

   B. USE DOUBLE THICKNESS (AIRFOIL) BLADES WITHOUT TRAILING EDGES FOR DUCT WIDTHS GREATER THAN 36".

6. ALL FLEXIBLE DUCTS SHALL NOT BE LESS THAN 4', OR MORE THAN 10' IN LENGTH. INSTALL FLEXIBLE DUCTWORK SUCH THAT:

   A. MINIMUM OVERALL LENGTH OF 3D, STRAIGHT INTO NECK OF DIFFUSER.

   B. MAXIMUM OF 135° OF TOTAL TURNING IN ENTIRE LENGTH OF FLEXIBLE DUCT.

   C. MINIMUM TURNING RADIUM OF R = 1.5D.

   D. WHERE:
   * D = FLEXIBLE DUCT DIAMETER
   * R = RADIUS OF TURN AS MEASURED TO CENTERLINE OF DUCT.

7. BRANCH LINES:

   A. MAKE ALL TAPS TO ROUND DUCTWORK WITH CONICAL TEES.

   B. MAKE ALL TAPS TO RECTANGLE DUCTWORK WITH 45° ENTRY OR CONICAL SPIN IN TO ROUND.

   C. INCLUDE DAMPERS AT ALL BRANCH LINES.

8. INCLUDE DAMPERS AT ALL BRANCH LINES, WHERE SHOWN ON THE DRAWINGS, AND WHERE OTHERWISE REQUIRED FOR BALANCING.

PIPE INSTALLATION:

1. ALL PIPING SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING STRUCTURE TO PREVENT SAGGING, POCKETING, SWAYING OR DISPLACEMENT BY MEANS OF HANGERS AND SUPPORTS. PIPING IS NOT TO BE SUPPORTED BY EQUIPMENT.

2. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR MATERIALS.

3. PROVIDE MANUAL AIR VENTS AND CAPPED HOSE-END DRAINS WITH ISOLATION VALVES AT PIPING HIGH AND LOW POINTS.

4. WELD PIPE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. WELDERS SHALL BE CERTIFIED FOR TYPE OF WORK BEING PERFORMED.

5. FLUSH OUT PIPING AND REMOVE CONTROL DEVICES BEFORE PERFORMING PRESSURE TEST. DO NOT USE PIPING SYSTEM VALVES TO ISOLATE SECTIONS WHERE TEST PRESSURE EXCEEDS VALVE PRESSURE RATING. PRESSURIZE PIPING AT 100 PSIG. IF LEAKAGE IS OBSERVED OR IF TEMPERATURE COMPENSATED PRESSURE DROP EXCEEDS 1% OF TEST PRESSURE, REPAIR LEAKS AND RETEST. DO NOT USE AIR PRESSURE TO TEST PLASTIC PIPE.

6. PROVIDE SUPPORT UNDER ELBOWS ON PUMP SUCTION AND DISCHARGE LINES.

7. ALL STRAINERS SHALL BE FURNISHED WITH A "ROUGHING" SCREEN AND TWO (2) SCREENS FOR NORMAL OPERATION. INSTALL STRAINER WITH ROUGHING SCREEN AND OPERATE SYSTEM FOR 24 HOURS MINIMUM (RUN DOMESTIC WATER SYSTEMS AT MAX FLOW FOR A MINIMUM OF ONE HALF (1/2) HOUR. REMOVE ROUGHING SCREEN AND INSTALL NORMAL SCREEN, AFTER TWO WEEKS OF NORMAL OPERATION INSTALL NEW NORMAL SCREEN.

8. INSTALL ALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHIN THE PIPING SYSTEM. ENSURE ALL REQUIRED PIPE EXPANSION WILL OCCUR IN THE PROPER DIRECTION AND SEGMENT OF PIPE. PROPERLY ANCHOR (RE: SPECIFICATIONS) ALL PIPING REQUIRING EXPANSION/CONTRACTION ISOLATION. COORDINATE PIPE EXPANSION/CONTRACTION TO PREVENT DAMAGE TO ANY AND ALL BUILDING COMPONENTS.

CONDENSATE DRAINAGE:

1. PROVIDE CONDENSATE DRAINAGE FOR ALL COOLING COILS AND OVERFLOW PANS.

2. ROUTE CONDENSATE PIPING, FULL SIZE OF DRIP PAN CONNECTION, TO NEAREST CODE APPROVED RECEPTACLE. INSULATE WHERE LOCATED ABOVE FINISHED CEILINGS.

LOUVERS:

1. ALL LOUVERS LOCATED ON EXTERIOR WALLS SHALL BE PROVIDED BY DIVISION 23. REQUIRED LOUVER FREE AREAS ARE INDICATED ON DIVISION 23 DRAWINGS. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO CONFIRM THAT THE REQUIRED FREE AREA HAS BEEN PROVIDED, PRIOR TO CONNECTION TO THAT LOUVER. DIVISION 23 SHALL PROVIDE ALL LOUVER PLENUMS.

CUTTING, PATCHING AND DEMOLITION:

1. KEEP DEMOLITION & CUTTING TO MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK.

2. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF THE WORK.

3. NO CUTTING (NOT SHOWN ON THE CONTRACT DOCUMENTS) SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT AS TO LOCATIONS, METHOD AND EXTENT OF THE CUTTING.

4. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.

5. ALL "CAPPED" SANITARY AND VENT LINES SHALL BE RECONNECTED OR RE-ROUTED AS NECESSARY TO PREVENT "DEAD-ENDS" IN THE PIPING. ALL PIPING SHALL DRAIN TO ACTIVE SANITARY WASTE LINES AND ALL BRANCHES WITH TRAPS SHALL BE ADEQUATELY VENTED.

GENERAL PLUMBING CONTRACT REQUIREMENTS:

1. THE GENERAL MECHANICAL REQUIREMENTS PERTAIN TO THE WORK OF THIS DIVISION.

2. PREPARE SHOP DRAWINGS OF ALL NEW WORK (INCLUDING SLEEVE LOCATIONS) TO VERIFY LOCATIONS AND COORDINATION OF WORK BETWEEN TRADES PRIOR TO INSTALLATION.

3. ALL REQUIRED OPENINGS IN CONCRETE BEAMS AND STRUCTURAL WALLS ARE TO BE ACCOMPLISHED USING SLEEVES PROPERLY SIZED FOR THE PIPE THEY SERVE. CORE DRILLING IN BEAMS IS NOT ALLOWED. CORE DRILLING IN PANS IS ALLOWED UPON PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.

4. NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB.

5. ANY ELECTRICAL SPACE NOT CONSTRUCTED WITH A SUB-ROOF WHICH MAY HAVE PLUMBING PIPING AT THE CEILING OF THESE SPACES SHALL HAVE A DRIP PAN INSTALLED BELOW THE PIPING. DRIP PANS SHALL BE 1.5 TIMES THE WIDTH OF THE PIPING SERVED WITH A MINIMUM OF 2" HIGH SIDES. DRIP PANS SHALL BE SUSPENDED FROM THE PIPING SERVED AND SHALL SLOPE AT A MINIMUM 1/8"/FT. DRIP PANS SHALL DISCHARGE WITH MIN. 1-1/2" DR TO FLOOR DRAINS.

   A. DO NOT LOCATE PIPING DIRECTLY ABOVE ANY ELECTRICAL EQUIPMENT IN ELECTRICAL ROOMS.

STRUCTURE:

1. DO NOT PENETRATE STRUCTURAL MEMBERS. ALL EQUIPMENT SUPPORTS SHALL BE ATTACHED TO THE LOAD BEARING MEMBERS OF STRUCTURAL ELEMENTS. DO NOT OVER-STRESS ANY STRUCTURAL MEMBERS. CONTACT STRUCTURAL ENGINEER FOR ALLOWABLE LOADS FOR SPECIFIC MEMBERS.

2. DO NOT UTILIZE POWER DRIVEN ANCHORS FOR ANY LOCATIONS WHICH REQUIRE THE LOAD TO BE HELD IN TENSION. SEE STRUCTURAL DIVISION FOR ADDITIONAL RESTRICTIONS.

3. SEE ALSO STRUCTURAL DIVISION FOR ACCEPTABLE ANCHORING AND SUPPORT MEANS, METHODS, AND LOCATIONS.

4. PROVIDE FLEXIBLE CONNECTORS, EXPANSION LOOPS, EXPANSION JOINTS, ADDITIONAL FITTINGS OR EQUIVALENT TO ACCOMMODATE THE THERMAL EXPANSION OF THE BUILDING THROUGH STRUCTURAL EXPANSION JOINTS. PROVIDE SUCH FITTING AT EVERY PIPE, DUCT, CONDUIT, ETC. CROSSING OF A STRUCTURAL EXPANSION JOINT.

FIRE PROTECTION NOTES:

1. FIRE PROTECTION NOTES

   A. NOVEC 1230 CLEAN AGENT FIRE PROTECTION SYSTEM: PROVIDE PIPING, SPECIALTIES, AND CONTROLS AS REQUIRED FOR COMPLETE AND FULLY FUNCTIONAL CLEAN AGENT FIRE SUPPRESSION SYSTEM.

FIRE STOPPING:

1. FIRE STOPPING REQUIREMENT: PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ACCEPTANCE MATERIALS NCLUDE: DOW CORNING RTV FIRE STOP FOAM FOR BARE PIPE, METAL CONDUIT, AND ELECTRICAL CABLE; 3M FIRE DAM 21,22 AND 230 CAULK FOR BARE PIPE, METAL CONDUIT, AND BUILDING CONSTRUCTION; GAPS 3M FS-195 INTUMESCENT STRIPS FOR INSULATED PIPES, PLASTIC PIPE OR CONDUIT; AND ELECTRICAL CABLE.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED · MARREN E. EDWARDS · 56806 · PROFESSIONAL ENGINEER

02/05/2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

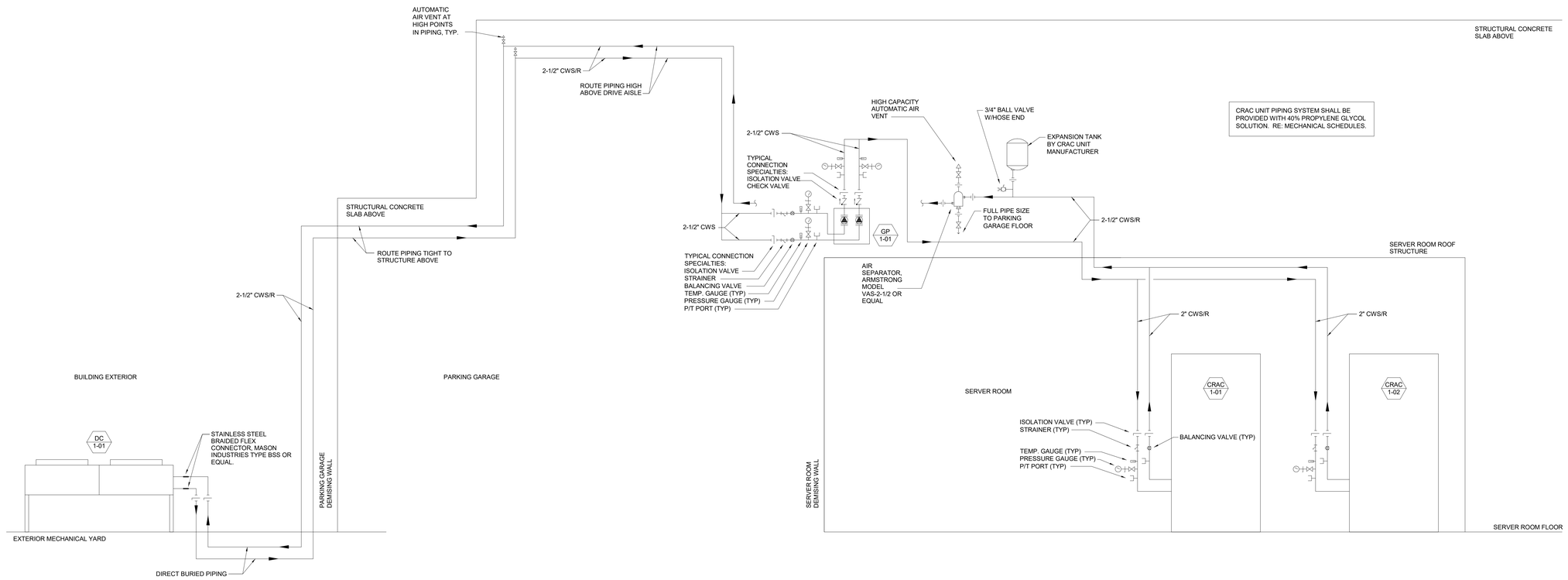
Description

MECHANICAL GENERAL NOTES

Scale

1/8" = 1'-0"

BP1B-M0.001



A SERVER ROOM - CRAC UNIT PIPING DIAGRAM
NONE

Steamboat

ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

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

Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.

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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED MATHEW E. EDWARDS 56806 PROFESSIONAL ENGINEER

02/05/2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

MECHANICAL PIPING DIAGRAM

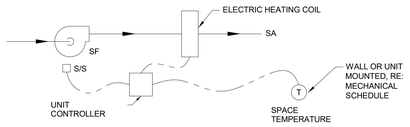
Scale

1/8" = 1'-0"

BP1B-M0.002

CONTROL LEGEND

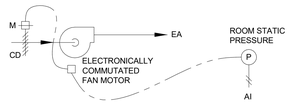
ABBR	DESCRIPTION	ABBR	DESCRIPTION	ABBR	DESCRIPTION
AI	ANALOG INPUT	FR	FREEZESTAT	PHC	PREHEAT COIL
AO	ANALOG OUTPUT	FRN	FURNACE	PT	PRESSURE TRANSMITTER
BDD	BACKDRAFT DAMPER	FS	FLOW SWITCH	PZ	PIEZOMETER RING
BTU	BTU METER	FSCP	FIREFIGHTER SMOKE CONTROL PANEL	RA	RETURN AIR
C	CONTROLLER	FSPD	FAN SPEED	RF	RETURN FAN
CC	COOLING COIL	FT	FLOW TRANSMITTER	S	SPACE TEMPERATURE SENSOR
CD	CONTROL DAMPER	H	HUMIDITY OR HIGH	S/S	START/STOP
CFM	AIRFLOW MEASURING SENSOR	HC	HEATING COIL	SA	SUPPLY AIR
CHR	CHILLED WATER RETURN	H/L	HIGH/LOW	SC	SPEED CONTROL
CHS	CHILLED WATER SUPPLY	HH	HIGH LIMIT HUMIDITY SWITCH	SD	SMOKE DETECTOR
CO2	CARBON DIOXIDE	HS	HUMIDITY SENSOR	SF	SUPPLY FAN
COND	CONDENSATE OVERFLOW	HT	HUMIDITY TRANSMITTER	SPT	STATIC PRESSURE TRANSMITTER
COV	CHANGE OF VALUE	HWR	HOT WATER RETURN	SR	SWITCHING RELAY
CSEN	CURRENT SENSOR	HWS	HOT WATER SUPPLY	T	THERMOSTAT
DI	DIGITAL INPUT	IR	INTERLOCK RELAY	TM	THERMAL MASS METER
DO	DIGITAL OUTPUT	L	LEVEL OR LOW	TO	TIMED OVERRIDE SWITCH
DP	DIFFERENTIAL PRESSURE	LAN	LOCAL AREA NETWORK CONNECTION	TS	TEMPERATURE SENSOR
EA	EXHAUST AIR	M	MOTORIZED CONTROL	TT	TEMPERATURE TRANSMITTER
ES	END SWITCH	MIN	MINIMUM	TTAB	TEMPERATURE TRANSMITTER W/AVERAGING BULB
F	FILTER ASSEMBLY OR FAIL	ND	NITROGEN DIOXIDE	V	VALVE
FACP	FIRE ALARM CONTROL PANEL	OA	OUTSIDE AIR	VFD	VARIABLE FREQUENCY DRIVE
FAS	FIRE ALARM SYSTEM	OS	OCCUPANCY SENSOR	VP	VIRTUAL POINT
FC	FAIL CLOSED	P	SPACE STATIC PRESSURE	VS	VELOCITY SENSOR
FCU	FAN COIL UNIT	P-E	PNEUMATIC ELECTRIC SWITCH	WBT	WET BULB TEMPERATURE TRANSMITTER
FM	FLOW METER				
FO	FAIL OPEN				



C ELECTRIC CABINET UNIT HEATER/ ELECTRIC UNIT HEATER CONTROL

NONE

A. THERMOSTAT SHALL CYCLE FAN & ENERGIZE ELECTRIC HEAT TO MAINTAIN SPACE SETPOINT.
B. WHERE REMOTE MOUNTED THERMOSTAT IS INDICATED, PROVIDE CONTROL TRANSFORMER AND LOW VOLTAGE THERMOSTAT BY TEMPERATURE CONTROLS CONTRACTOR.



A VENTILATION FAN CONTROL

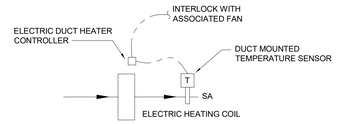
NONE

A. FAN SHALL BE ENERGIZED VIA LOCAL DISCONNECT AND SHALL MODULATE TO MAINTAIN ROOM STATIC PRESSURE SETPOINT WITHIN THE IT ROOM OF +0.03" W.C.
B. MOTORIZED DAMPER SHALL BE INTERLOCKED WITH FAN AND SHALL CLOSE WHENEVER FAN IS OFF OR POWER IS LOST.
C. PROVIDE RELAY TO NOVEC 1230 FIRE SUPPRESSION CONTROL SYSTEM FOR FAN SHUTDOWN. WHENEVER SIGNAL TO RELEASE CLEAN AGENT HAS BEEN GIVEN AT THE NOVEC 1230 CONTROL SYSTEM, ELECTRICAL POWER TO THE FAN SHALL BE INTERRUPTED, THE FAN MOTOR SHALL STOP, AND THE FAN MOTORIZED DAMPER SHALL CLOSE.

D SERVER ROOM MOTORIZED DAMPER

NONE

A. THE SERVER ROOM IS PROVIDED WITH A NOVEC 1230 CLEAN AGENT FIRE SUPPRESSION SYSTEM. PROVIDE RELAY FROM NOVEC 1230 FIRE SUPPRESSION CONTROL SYSTEM TO MOTORIZED DAMPER LOCATED IN SUPPLY DUCT SERVING THE SERVER ROOM. WHENEVER SIGNAL TO RELEASE CLEAN AGENT HAS BEEN GIVEN AT THE NOVEC 1230 CONTROL SYSTEM, THE MOTORIZED DAMPER SHALL FULLY CLOSE. MANUAL RESET REQUIRED.



B ELECTRIC DUCT HEATER CONTROL

NONE

A. INTERLOCK ELECTRIC DUCT HEATER WITH VENTILATION SUPPLY FAN SERVING SAME AREA. ENERGIZE DUCT HEATER AND MODULATE TO MAINTAIN VENTILATION SUPPLY AIR TEMPERATURE OF 65F (ADJ.). DUCT HEATER SHALL BE ENABLED ONLY WHEN SUPPLY FAN IS OPERATING.

CONTROL SYSTEM GENERAL NOTES:

DESIGN INTENT:

A. THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO COMMUNICATE A DESIGN INTENT FOR CONTROL OF INDICATED SYSTEMS. ALTERNATIVE CONTROL METHODS MAY BE USED WHERE PRACTICAL OR WHERE NECESSARY TO MEET REQUIRED SYSTEM PERFORMANCE. WHERE ALTERNATIVE CONTROL METHODS ARE USED TO MEET THE DESIGN INTENT, THESE METHODS SHALL BE INDICATED IN SUBMITTAL TO ENGINEER FOR EVALUATION. ENGINEER SHALL DETERMINE IF A SUBMITTED ALTERNATIVE CONTROL METHOD MEETS THE DESIGN INTENT.

B. ALTHOUGH THE MECHANICAL DRAWINGS MAY INDICATE A PRODUCT AS BASIS OF DESIGN, THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO INDICATE A DESIGN INTENT FOR THE COMPLETE SYSTEM THAT IS APPLICABLE TO MULTIPLE POTENTIAL PRODUCTS OR MANUFACTURERS. CONTROL METHODS SHALL BE DEVELOPED BY THE TEMPERATURE CONTROLS CONTRACTOR AND/OR EQUIPMENT PROVIDER IN ORDER TO ACHIEVE THE REQUIRED SYSTEM PERFORMANCE.

REQUIRED COORDINATION:

A. THE DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN EQUIPMENT PROVIDERS AND TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO FULLY SATISFY THE DESIGN INTENT.

B. REFER TO SPECIFICATION SECTION 23 05 01 MECHANICAL AND ELECTRICAL COORDINATION.

SEQUENCE OF OPERATION GENERAL NOTES:

GENERAL:

A. PROVIDE INDIVIDUAL INPUTS OR OUTPUTS FOR EACH POINT LISTED IN THE POINTS LISTS OR CONTROL DIAGRAM. PROVIDE ANY ADDITIONAL POINTS NOT LISTED IN THE POINTS LIST OR CONTROL DIAGRAM, BUT REQUIRED TO MEET THE SEQUENCE OF OPERATION, AT NO ADDITIONAL COST TO THE OWNER. ALL ANALOG OUTPUTS SHALL BE 4-20MA, 0-10VDC OR 0-20VDC UNLESS OTHERWISE INDICATED.

B. IN THE EVENT OF A POWER OUTAGE OR OTHER MALFUNCTION, THE CURRENTLY ENABLED CONTROLS SEQUENCES SHALL BE MAINTAINED. RE: SPECIFICATIONS.

OCCUPANCY SCHEDULES:

A. THE SERVER ROOM SYSTEMS ARE INTENDED TO BE IN OPERATION (OCCUPIED MODE) 24 HOURS PER DAY, 7 DAYS PER WEEK, YEAR-ROUND.

MONITORING/CONTROL REQUIREMENTS:

A. CRAC UNITS ARE PROVIDED WITH SNMP ETHERNET CARDS FOR USE WITH OWNER'S LOCAL AREA NETWORK. PROVIDE PROGRAMMING TO CALLOUT ALARMS FROM EACH CRAC UNIT ON OWNER'S NETWORK. ALARMS SHALL BE SENT TO DESIGNATED PERSONNEL VIA EMAIL AND TEXT MESSAGE.

B. WATER-COOLED CRAC UNIT CONTROL:
1. UNITS SHALL OPERATE UNDER THEIR OWN SELF CONTAINED CONTROLS TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED
RAYMON E. EDWARDS
56806
PROFESSIONAL ENGINEER
02/05/2021

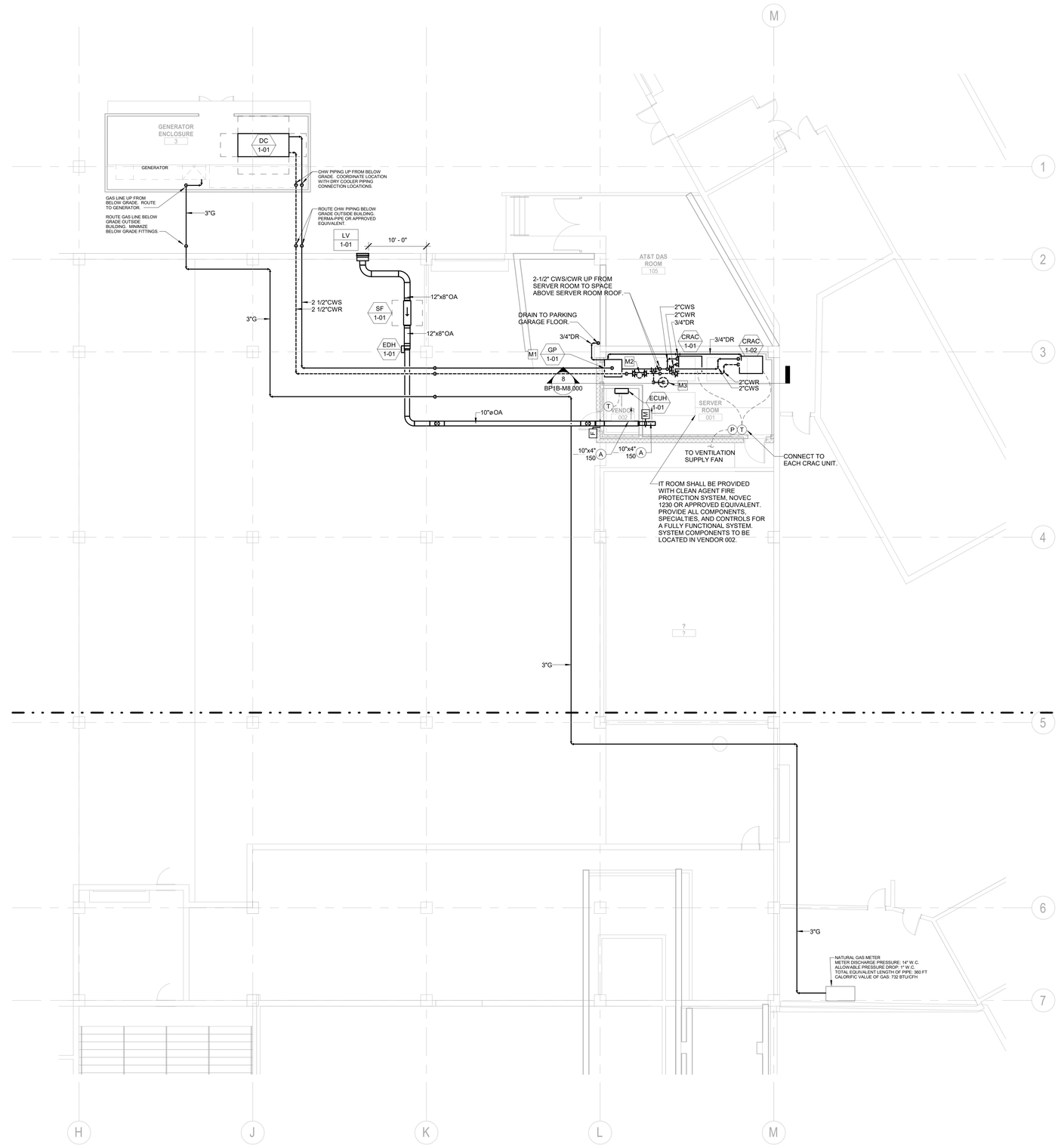
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
MECHANICAL CONTROLS

Scale
1/8" = 1'-0"

BP1B-M0.003



1 IT ROOM - MECHANICAL PLAN

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

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR IS RESPONSIBLE FOR ALL OFFSETS, TRANSITIONS, ELBOWS, ETC. AS REQUIRED IN DUCTWORK, PIPING, SUPPORTS, ETC. TO COMPLETE THE WORK IN A CLEAN FUNCTIONAL INSTALLATION THAT IS FULLY COORDINATED WITH ALL OTHER TRADES. ANY PRICING EFFORT SHALL TAKE THESE FACTORS INTO ACCOUNT.

2. MAINTAIN CODE REQUIRED AREA OF SEPARATION FROM OUTSIDE AIR INTAKES TO TERMINATIONS OF EXHAUST, COMBUSTION AIR, PLUMBING VENTS, ETC.

3. PROVIDE MANUAL BALANCE DAMPERS IN ALL SUPPLY DUCT BRANCH TAPS DOWNSTREAM OF DOWNSTREAM OF VENTILATION FAN.

4. PROVIDE THROUGH FACE BALANCING FOR ALL DIFFUSERS, REGISTERS, AND GRILLES ABOVE INACCESSIBLE AREAS.

5. INSTALL EXPOSED DUCTWORK AS HIGH AS POSSIBLE.

6. ALL DUCT/PIPE PENETRATIONS THROUGH FIRE RATED/SMOKE RATED PARTITIONS SHALL BE CAULKED AND SEALED TO MEET THE RATING REQUIRED. REFER TO LIFE SAFETY DRAWINGS FOR FIRE/SMOKE RATING REQUIREMENTS.

KEYNOTES

M1	PUMP PACKAGE LOCATED ABOVE IT ROOM ROOF STRUCTURE, SUSPEND FROM CONCRETE SLAB ABOVE.
M2	AIR SEPARATOR LOCATED ABOVE IT ROOM ROOF STRUCTURE, SUSPEND FROM CONCRETE SLAB ABOVE.
M3	EXPANSION TANK MOUNTED ABOVE IT ROOM ROOF STRUCTURE, SUSPEND FROM CONCRETE SLAB ABOVE.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED KATHRYN E. EDWARDS 56806 PROFESSIONAL ENGINEER

02/05/2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

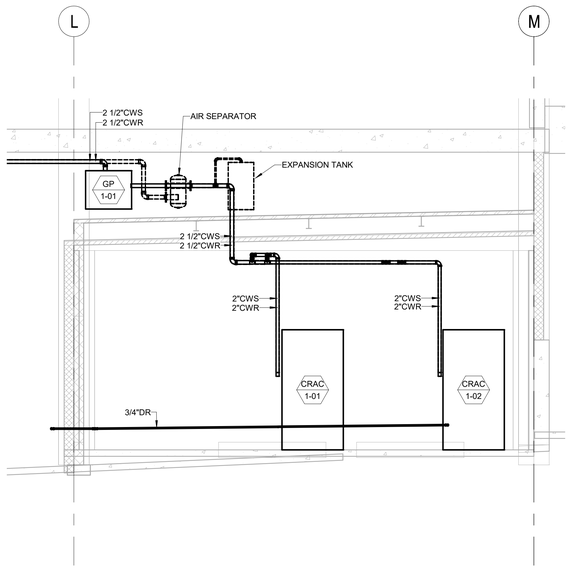
Description

IT ROOM - MECHANICAL PLAN

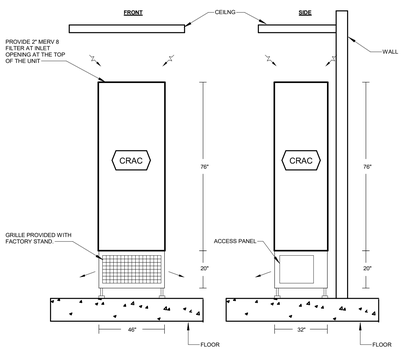
Scale

1/8" = 1'-0"

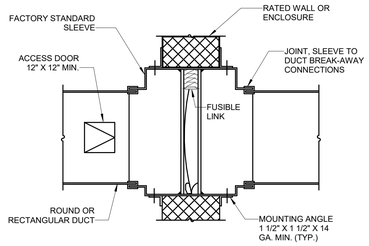
BP1B-M1.201



8 MECHANICAL SECTION
1/4" = 1'-0"



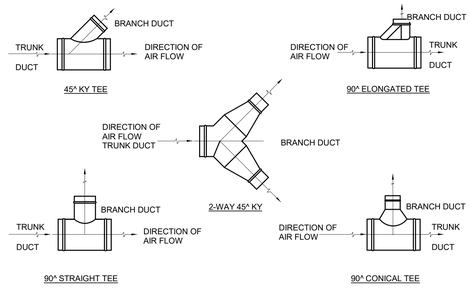
6 COMPUTER ROOM AIR CONDITIONER STAND
NO SCALE



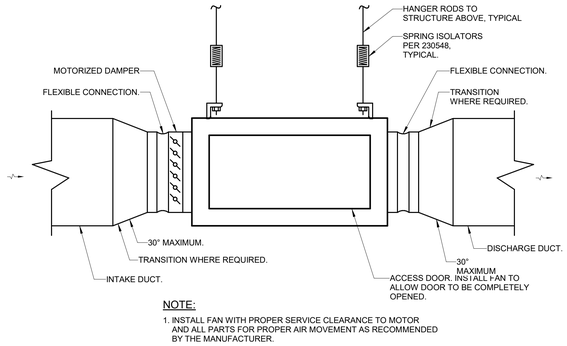
NOTES:

1. DYNAMIC FIRE DAMPER SHALL BE USED.
2. FIRE DAMPERS SHALL BE INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS. (RUSKIN DIBD2 STYLE C SFM LISTING NO. 3225-245:005)
3. FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 713.
4. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO INSPECTING AUTHORITIES.

5 FIRE DAMPER
NO SCALE



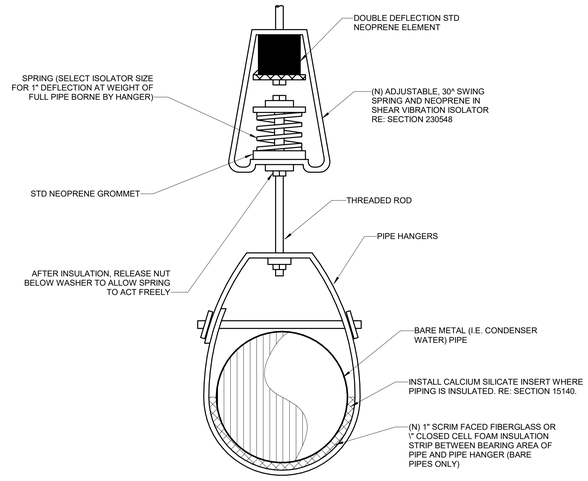
2 ROUND DUCT BRANCH TAKE- OFF DETAIL
NO SCALE



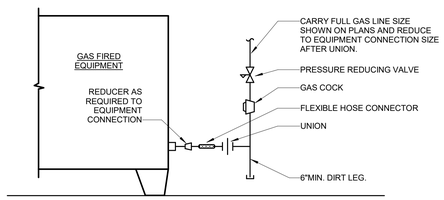
NOTE:

1. INSTALL FAN WITH PROPER SERVICE CLEARANCE TO MOTOR AND ALL PARTS FOR PROPER AIR MOVEMENT AS RECOMMENDED BY THE MANUFACTURER.

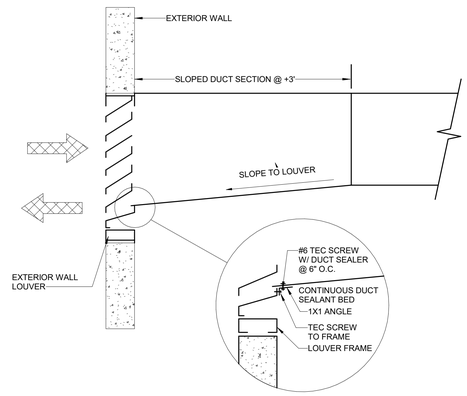
4 INLINE FAN DETAIL
NO SCALE



3 VIBRATION ISOLATION HANGER DETAIL
NO SCALE



1 TYPICAL GAS PIPING CONNECTION TO EQUIP
NO SCALE



NOTE:

1. ORIENT DUCT JOINTS ALONG SIDES OF DUCTWORK FOR SLOPED DUCT SECTION.

7 OUTSIDE WALL LOUVER DUCT CONNECTION
NO SCALE

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED MARK E. EDWARDS 56806 PROFESSIONAL ENGINEER

02/05/2021

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

MECHANICAL DETAILS

Scale

As indicated

BP1B-M8.000

COMPUTER ROOM AIR CONDITIONING SCHEDULE

CODE (CRAC)	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN CFM	FAN ESP (IN.)	FAN HP	COOLING COIL EAT (F) DB	COOLING COIL EAT (F) WB	COOLING COIL LAT (F) DB	COOLING COIL TOTAL MBH	COOLING COIL SENS. MBH	UNIT WEIGHT (LBS)	CONDENSER (WATER-COOLED) FLUID	CONDENSER (WATER-COOLED) EWT	CONDENSER (WATER-COOLED) LWT	CONDENSER (WATER-COOLED) GPM	CONDENSER (WATER-COOLED) WPD	ECONOMIZER COOLING (WATER COIL) FLUID	COIL LAT	TOTAL MBH	SENS. MBH	EWT	LWT	GPM	FREE COOLING WPD (FT)	DX ASSIST WPD (FT)	INDOOR UNIT ELECTRICAL FLA	MCA	VOLT	PH	E-POWER (Y/N)	MIN. AIC RATING	DISCON.	FUSE	FEEDER	REMARKS
1-01	STULZ/COS-096	IT ROOM	4400	0.5	4.1	75.0	54.7	51.8	84.5	84.5	800	40% PG	110	120	25.7	11.2	40% PG	59.6	55.8	55.8	45	50.7	25.7	31.7	42.2	18.1	25.8	460	3	Y	65	50A3P	40A FRS-R	(3#8, 1#10G) 3/4"C	A,B
1-02	STULZ/COS-096	IT ROOM	4400	0.5	4.1	75.0	54.7	51.8	84.5	84.5	800	40% PG	110	120	25.7	11.2	40% PG	59.6	55.8	55.8	45	50.7	25.7	31.7	42.2	18.1	25.8	460	3	Y	65	50A3P	40A FRS-R	(3#8, 1#10G) 3/4"C	A,B

DRY COOLER - OUTDOOR UNIT								DRY COOLER - ELECTRICAL							
CODE (DC)	MANUFACTURER/ MODEL NO.	AMBIENT TEMP (F) DB	EWT	LWT	GPM	WPD	WEIGHT (LBS)	FLA	MCA	VOLT	PH	E-POWER (Y/N)	DISCON.	FUSE	FEEDER	REMARKS
1-01	WITT/FSS211A	95	120	110	51.4	2.5	600	6.6	15	460	3	Y	20A3P	20A FRS-R	(3#12, 1#12G) 3/4"C	A,C

PUMP PACKAGE - DUAL PUMPS						PUMP PACKAGE - ELECTRICAL							
CODE (GP)	MANUFACTURER/ MODEL NO.	HP	GPM PER PUMP	FT HD	WEIGHT (LBS)	FLA	MCA	VOLT	PH	E-POWER (Y/N)	DISCON.	FUSE	FEEDER	REMARKS
1-01	STULZ/GPS-030-D	(2) 3	50	80	250	4.3	5.3	460	3	Y	20A3P	8A FRS-R	(3#12, 1#12G) 3/4"C	A,D

GENERAL NOTES
1. JOBSITE ELEVATION = 6700FT.
2. PROVIDE 2" MERV 8 FILTERS.
3. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP.
4. PROVIDE CONDENSATE OVERFLOW ALARM.
5. PROVIDE REMOTE WALL MOUNTED THERMOSTAT.
6. R-407C REFRIGERANT.
7. PROVIDE LOW ENTERING WATER TEMP KIT, 3-WAY WATER REGULATING VALVE, 3-WAY MODULATING FLOW CONTROL VALVE, AND HOT GAS BYPASS.
8. PROVIDE NON-FUSED DISCONNECT AT EACH EVAPORATOR SECTION.
9. SUPPLY FAN SHALL BE BACKWARD CURVED, DIRECT DRIVE, WITH ELECTRONICALLY COMMUTATED (EC) MOTOR.
10. PROVIDE TOUCHSCREEN UNIT CONTROLLER.
11. PROVIDE SPOT-TYPE WATER DETECTOR.
12. PROVIDE WITH SMOKE DETECTOR.
13. PROVIDE EACH CRAC UNIT WITH SNMP ETHERNET CARD.

CONFIGURATION
I. DOWNFLOW WITH TOP RETURN. PROVIDE WITH 24" FLOOR STAND WITH FRONT DISCHARGE SUPPLY GRILLE.

REMARK NOTES
A. PROVIDE FIELD WIRING PER MANUFACTURER'S RECOMMENDATIONS FOR CONTROL OF DRY COOLER AND PUMP PACKAGE.
B. INITIAL SETPOINT SHALL BE 75F ROOM TEMPERATURE.
C. DRY COOLER SHALL BE PROVIDED WITH REQUIRED CONTROLS AND OPTIONS TO ALLOW ONE CONDENSER FAN TO BE DOWN FOR SERVICE WHILE THE OTHER REMAINS IN OPERATION.
D. PUMP PACKAGE SHALL BE MOUNTED ON WALL SHELF. PROVIDE PIPING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

GRILLE REGISTER DIFFUSER SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	TYPE	ACCESSORIES	FACE SIZE	REMARKS
A	TITUS/S300FL	SUPPLY	LOUVERED		SEE PLANS	A,B

GENERAL NOTES:
1. SEE PLANS FOR CFM AND NECK SIZE.
2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED.
3. COLOR TO BE COORDINATED WITH ARCHITECT.
4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED.
5. PROVIDE BALANCING DEVICE FOR ALL GRD'S UNLESS OTHERWISE NOTED.

REMARK NOTES:
A. ALUMINUM CONSTRUCTION.
B. PROVIDE WITH AIR SCOOP DEVICE.

ENVIRONMENTAL FAN SCHEDULE

CODE (SF)	MANUFACTURER/ MODEL NO.	AREA SERVED	LOCATION	TYPE	CFM	ESP "W.C. (ALT.)	DRIVE	ELECTRICAL HP/W	VOLT	PH	FLA	DISC.	FUSE	FEEDER	E-POWER (Y/N)	MTG	CTRL	WEIGHT (LBS)	REMARKS
1-01	GREENHECK/SQ-97-VG	IT ROOM	CEILING	INLINE	300	0.65	EC(D)	1/2	120	1	3.1	T.O.$		(3#12, 1#12G) 3/4"C	Y	1	I	100	A,B,C

GENERAL NOTES:
1. DRIVE TYPE: EC(D) = DIRECT DRIVE WITH ELECTRONICALLY COMMUTATED FAN MOTOR AND LOCAL SPEED ADJUSTMENT.
2. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOB SITE ELEVATION. JOB SITE ELEVATION = 6,700 FT.

MOUNTING (MTG):
1. INSTALL FAN WITH FLEXIBLE CONNECTIONS AT DUCT INLET AND OUTLET. PROVIDE SPRING HANGER VIBRATION ISOLATORS.

CONTROL (CTRL):
I. FAN SHALL OPERATE CONTINUOUSLY AND MODULATE TO MAINTAIN SPACE STATIC PRESSURE SETPOINT OF +0.05" W.C. INTERLOCK FAN WITH MOTORIZED DAMPER.

REMARK NOTES:
A. PROVIDE MOTORIZED BACKDRAFT DAMPER AT FAN INLET.
B. PROVIDE INTEGRAL ANGLED FILTER HOUSING WITH 2" MERV 8 FILTERS.
C. PROVIDE STATIC PRESSURE SENSOR IN IT ROOM WITH 0-10VDC CONTROL SIGNAL TO FAN MOTOR.

ELECTRIC DUCT HEATER

CODE (EDH)	AREA SERVED	MANUFACTURER/ MODEL NO.	OSA CFM	HEATING COIL EAT	HEATING COIL LAT	HEATING COIL KW	HEATING COIL CONTROL	ELECTRICAL V	PH	FLA	E-POWER	DISC.	FUSE	FEEDER	INLET SIZE	OUTLET SIZE	REMARKS
1-01	IT ROOM	INDEECO QUZ	300	-10.0	65.0	5.6	SCR	277	1	16	Y	20A1P	20A FRS-R	(3#12, 1#12G) 3/4"C	12 X 8	12 X 8	A,B

GENERAL NOTES
1. MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING ALL UL LISTING REQUIREMENTS.
2. HEATING COIL DISCHARGE TEMPERATURES SHALL NOT EXCEED 100F.
3. JOBSITE ELEVATION = 6700 FT.

REMARK NOTES
A. PROVIDE LINE VOLTAGE DUCT MOUNTED THERMOSTAT DOWNSTREAM OF HEATER. CONTROL TO 65F LEAVING AIR TEMP.
B. INTERLOCK HEATER WITH VENTILATION FAN SERVING SAME AREA.

MECHANICAL LOUVER SCHEDULE

CODE (LV)	MANUFACTURER / MODEL / SIZE (IN)	SERVES	AIRFLOW (CFM)	MINIMUM FREE AREA (SF)	FACE SIZE (IN X IN)	REMARKS
1.01	RUSKIN / ELF6375DX	IT ROOM INTAKE	300	0.6	24"W X 12"H	A,B,C

GENERAL NOTES:
1. LOUVERS ARE PROVIDED BY DIVISION 23.
2. REFER TO ARCH. DWGS. AND SPECIFICATIONS FOR EXACT LOCATION.
3. LOUVERS SCHEDULED HERE ARE CONNECTED TO MECHANICAL SYSTEMS OR PROVIDED FOR FUTURE CONNECTION TO MECHANICAL SYSTEMS.

REMARK NOTES:
A. MINIMUM 50% FREE AREA LOUVER.
B. PROVIDE SELF-DRAINING PLENUM CONNECTION PER DETAILS DRAWINGS.
C. PROVIDE GRAVITY BACKDRAFT DAMPER AT LOUVER.

CABINET UNIT HEATER SCHEDULE (ELECTRIC)

CODE (ECUH)	MANUFACTURER/ MODEL NO.	AREA SERVED	CONFIG	CFM	HEAT KW	ELECTRICAL VOLT	PH	FLA	E-POWER	DISC	FUSE	FEEDER	REMARKS
1-01	INDEECO / CUI922U0400N	VENDOR	VERTICAL WALL MOUNT	200	4	120	1	15.8	Y	$.T.O	-	(2#12, #12G) 3/4"C	A,B,C,D

GENERAL NOTES:
1. EAT = 55°F, LAT = 95°F.
2. THERMOSTAT SHALL CYCLE FAN & ENERGIZE ELECTRIC HEAT TO MAINTAIN SPACE SETPOINT, 55 F (ADJ.).

REMARK NOTES:
A. PROVIDE WITH REMOTE THERMOSTAT.
B. PROVIDE 24VDC CONTROL TRANSFORMER.
C. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
D. PROVIDE FRONT STAMPED INLET LOUVER AND FRONT STAMPED OUTLET LOUVER.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED RAYMON E. EDWARDS 56806 PROFESSIONAL ENGINEER

02/05/2021

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
MECHANICAL SCHEDULES

Scale

BP1B-MEP0.000

NOTES

1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
2. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.
3. ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES.
4. ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.
5. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT THEIR WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED, HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING THEIR WORK WITH ALL OTHER TRADES AND FROM ADJUSTING THEIR WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
6. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO:

   a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).

   b. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.

   c. THIS CONTRACTOR SHALL ASSIST THE DIVISION 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).

   d. THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 23 DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
7. DEFINITIONS:

   a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.

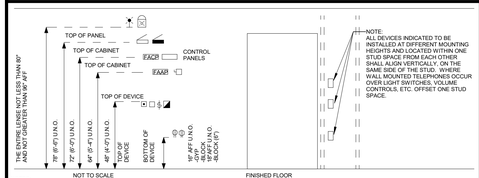
   b. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".

   c. "PROVIDE" MEANS TO "FURNISH AND INSTALL".

   d. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.

   e. "SEE _____ DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN THEIR SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.
8. "FIRESTOPPING" REQUIREMENT. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE BUILDING CODE.
9. WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION FROM DISCONNECT TO EQUIPMENT BEING SERVED.
10. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.
11. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL SINGLE PHASE CIRCUITS. A SHARED NEUTRAL CONDUCTOR IS NOT ACCEPTABLE ON SINGLE PHASE CIRCUITS.
12. EQUIPMENT INTERRUPTING RATINGS INDICATED ON THE DRAWINGS ARE BASED ON PRELIMINARY INFORMATION AND ARE SHOWN FOR BIDDING PURPOSES ONLY. VERIFY EQUIPMENT INTERRUPTING CAPACITY REQUIREMENTS PRIOR TO ORDERING ANY RELATED ELECTRICAL DISTRIBUTION EQUIPMENT.
13. PROVIDE NEW TYPE WRITTEN DIRECTORIES FOR ALL PANELBOARDS INSTALLED OR MODIFIED UNDER THIS CONTRACT.
14. ALL CIRCUIT BREAKER LUGS SHALL BE RATED FOR A MINIMUM OF 75 DEGREES CELSIUS.
15. ALL MATERIALS IN CEILING PLENUMS NOT ENCLOSED IN METALLIC CONDUIT SHALL HAVE CLASS, FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AS REQUIRED FOR USE IN OPEN PLENUMS.
16. VOLTAGE DROP: THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT VOLTAGE DROP FOR FEEDERS TO DISTRIBUTION EQUIPMENT DOES NOT EXCEED 2% AND VOLTAGE DROP IN BRANCH CIRCUITING DOES NOT EXCEED 3% FOR OVERALL VOLTAGE DROP OF 5% (MAXIMUM). FEEDERS LISTED ON SCHEDULES AND THE ELECTRICAL ONE-LINE DIAGRAM ARE A BASE FEEDER/BRANCH CIRCUIT SIZE AND SHALL BE ADJUSTED AS NEEDED BASED ON ACTUAL LENGTH OF CONDUCTORS.
17. REFER TO GENERAL NOTES FOR NUMBER OF PANEL SECTIONS AND QUANTITY OF CIRCUIT BREAKERS PANEL SCHEDULES SUPERCEDE ALL NOTES.
18. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.

TYPICAL DEVICE MOUNTING HEIGHTS



NOTES:

1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA AND A117.1 REQUIREMENTS.
3. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
4. ALL ABOVE COUNTER (DESIGNATED BY "AC") SHALL BE MOUNTED 8" ABOVE COUNTER OR MAXIMUM HEIGHT OF 44" TO TOP OF DEVICE. VERIFY HEIGHTS WITH ARCHITECT.
5. FOR CEILINGS BELOW 7'-4", FIRE ALARM STROBE OR HORN/STROBES SHALL BE WALL MOUNTED 6" BELOW FINISHED CEILING.
6. RESIDENTIAL LOAD CENTER TO BE INSTALLED WITH BREAKERS BETWEEN 15" AND 48" ABOVE FINISHED FLOOR.
7. SWITCH TO BE MOUNTED ON LATCH SIDE OF THE DOOR WITHIN 12" OF THE DOOR.
8. DEVICES AT SAME HEIGHT LOCATED NEXT TO EACH OTHER TO BE ALIGNED VERTICALLY TO THE BOTTOM OF THE DEVICE.

CODES AND STANDARDS

DESIGNED UNDER THE FOLLOWING CODES AND STANDARDS:
2020 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL BUILDING CODE
2018 STEAMBOAT SPRINGS ADOPTIONS/AMENDMENTS TO THE 2018 INTERNATIONAL BUILDING CODES
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FIRE CODE
2009 ANSI A117.1, ACCESSIBILITY REQUIREMENTS
ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS
NFPA 72 NATIONAL FIRE ALARM CODE

ADDITIONAL SCOPE NOTES

1. UPON COMPLETION OF ALL FIRE ALARM DEVICES, PROGRAMMING AND INTERFACE SHALL BE COMPLETED AS OUTLINED IN THE SPECIFICATIONS.
THE BUILDING FIRE ALARM SYSTEM SHALL BE TESTED, RELISTED, AND CERTIFIED PER AHJ REQUIREMENTS.

ABBREVIATIONS

A

A/AMP	AMPERE
AC	ABOVE COUNTER
AF	AMPERE FUSE/FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AVAILABLE INTERRUPT CURRENT
AL	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANT	ANTENNA
ASC	AVAILABLE SHORT-CIRCUIT CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE

B

BCST	BROADCAST
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BOH	BACK OF HOUSE
BW	BUS-WAY

C

C	CONDUIT
CAB	CABINET
CAM	CAMERA
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CO	CONDUIT ONLY
COMB	COMBINATION
COMP	COMPUTER
COND	CONDUCTOR
CT	CURRENT TRANSFORMER
CU	COPPER

D

D	DEMOLISH
DAS	DISTRIBUTED ANTENNA SYSTEM
dB	DECIBEL
DEMARC	DEMARCATION
DISC	DISCONNECT
DL	DAMP LABEL
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE, DOUBLE THROW
DWG	DRAWING
DVR	DIGITAL VIDEO RECORDER

E

E/EX	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENG	ELECTRONIC NEWS GATHERING
EOL	E/A END OF LINE RESISTOR
EPO	EMERGENCY POWER OFF PUSH BUTTON
EQP	EQUIPMENT
ER	EXISTING TO BE REMOVED/RELOCATED
EV	ELECTRIC VEHICLE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER

F

F	FUSE
F/A	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM POWER SUPPLY
FATC	FIRE ALARM TERMINAL CABINET
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLES
FDR	FEEDER
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPB	FAN POWERED BOX
FUT	FUTURE

G

GALV	GALVANIZED
GB	GROUNDING BUS
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND

H

HC	HORIZONTAL CROSS CONNECT
HD	HEAVY DUTY
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HTR	HEATER

I

IC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE GRADE METALLIC CONDUIT

J

J-BOX	JUNCTION BOX
JBA	AUDIO CONNECTION BOX
JBC	COACHES JUNCTION BOX
JBE	ENG BROADCAST BOX
JBT	NETWORK BROADCAST CONNECTION BOX

K

KCMIL/MCM	THOUSAND OF CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR

L

LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LFC	LIQUID TIGHT FLEXIBLE CONDUIT
LT	LOW TEMPERATURE RATED DEVICES OR SIMILAR
LTG	LIGHTING
LV	LOW VOLTAGE

M

MA	MILLIAMPERE
MAX	MAXIMUM
MB	MAIN BREAKERS
MC	MECHANICAL CONTRACTOR OR METAL CLAD
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOV	MOTOR OPERATED VALVE
MPOE	MAIN POINT OF ENTRY
MTG	MOUNTING/HEIGHT
MTS	MANUAL TRANSFER SWITCH
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTGB	MAIN TELECOMMUNICATIONS GROUND BUS
MTR	MAIN TELECOM ROOM
MV	MEDIUM VOLTAGE

N

N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON FUSED
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE

O

OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OD	OUTSIDE DIAMETER
OH	OVERHEAD

P

P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PE	PHOTOELECTRIC
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PWR	POWER

Q

QE	QUADRANT ELECTRICAL (ARENA SPECIFIC)
QT	QUADRANT TELECOM (ARENA SPECIFIC)

R

R	EXISTING TO RELOCATE
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE

S

SCP	SECURITY CONTROL PANEL
SEC	SECONDARY/SECOND
SECT	SECTION
SHT	SHEET
SIC	SECONDARY CONNECTION CABINET
SMPOE	SECONDARY MAIN POINT OF ENTRY
SP	SERVICE PROVIDER
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
ST	SHUNT TRIP
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHEAR

T

T	TWIST LOCK
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBD	TO BE DETERMINED
TC	TIME CLOCK
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TELCOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TGB	TELECOMMUNICATIONS GROUND BUS
TO	THERMAL OVERLOAD
TR	TAMPER RESISTANT
TYP	TYPICAL

U

UC	UNDER COUNTER
UG	UNDERGROUND
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS

V

V	VOLT
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER

W

W	WATT
W/	WITH
W/O	WITHOUT
WH	WATT HOUR
WHM	WATT HOUR METER
WLAN	WIRELESS-LOCAL AREA NETWORK
WP	WEATHERPROOF
WPL	WEATHER PROOF LOCKABLE ENCLOSURE.
WT	WATERTIGHT

X

XFMR	TRANSFORMER
XP	EXPLOSION PROOF

SYMBOLS

LIGHTING

- STRIP LIGHT
- WALL MOUNTED STRIP LIGHT
- WALL MOUNTED LINEAR
- RECESSED LINEAR
- RECESSED LIGHTING FIXTURE W/DOWNLIGHTS
- RECESSED 2'X2'
- RECESSED 2'X4'
- SURFACE MOUNTED 2'X4'
- SURFACE MOUNTED 2'X2'
- SURFACE MOUNTED 1'X4'
- RECESSED WALL / STEP LIGHT
- WALL MOUNTED FLOODLIGHT
- WALL MOUNTED SCONCE
- SURFACE MOUNTED DOWN LIGHT
- SURFACE MOUNTED WALL WASH
- RECESSED DOWN LIGHT
- RECESSED WALL WASH
- RECESSED 1X4 WALL WASH
- LINEAR PENDANT
- LINEAR PENDANT W/DOWNLIGHTS
- PENDANT LIGHT
- MONOPOINT TRACKHEAD
- LINEAR LIGHT
- TRACK WITH TRACKHEADS
- BURIAL FIXTURE
- POLE MOUNTED LIGHT WITH ARM
- POLE MOUNTED LIGHT POST TOP MOUNTING/BOLLARD
- CEILING MOUNTED EXIT SIGN
- EXIT SIGN WITH DIRECTIONAL
- W.ALL MOUNTED EXIT SIGN ARROWS (CHEVRONS)
- EMERGENCY LIGHTING UNIT
- UL924 EMERGENCY AUTOMATIC TRANSFER DEVICE
- POWER SUPPLY
- OCCUPANCY SENSOR - CEILING MOUNTED
- DAYLIGHT SENSOR - CEILING MOUNTED
- OCCUPANCY SENSOR - WALL SWITCH
- OCCUPANCY SENSOR - 180°
- DIMMER SWITCH / STATION
- DIMMER / OCCUPANCY SENSOR COMBINATION SWITCH
- DIMMER SWITCH LOW VOLTAGE OVERRIDE
- SCENE CONTROL STATION
- TOUCH PANEL CONTROL STATION
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- SHADED SYMBOLS DENOTE EMERGENCY FIXTURES

POWER

- WALL SIMPLEX RECEPTACLE
- WALL DUPLEX RECEPTACLE
- WALL DUPLEX WITH USB
- WALL DUPLEX WITH CONTROL OF ONE OUTLET
- WALL DUPLEX RECEPTACLE (EMERGENCY)
- WALL FOURPLEX RECEPTACLE
- WALL FOURPLEX RECEPTACLE (EMERGENCY)
- WALL SPECIAL RECEPTACLE (FOR "X" SEE RECEPTACLE MODIFIER TAGS TABLE)
- WALL SPECIAL RECEPTACLE (EMERGENCY) (FOR "X" SEE RECEPTACLE MODIFIER TAGS TABLE)
- FLAT PANEL BACK BOX - POWER MOUNTED WITHIN AV BACK BOX
- WALL COMBINATION TV / POWER OUTLET
- WALL CLOCK RECEPTACLE
- WALL JUNCTION BOX
- WALL FURNITURE FEED
- FLOOR DUPLEX RECEPTACLE
- FLOOR FOURPLEX RECEPTACLE (POWER/DATA/COMBO DEVICE. REFER TO TECHNOLOGY DRAWINGS)
- FLOOR FOURPLEX RECEPTACLE WITH AV (POWER/DATA/AV COMBO DEVICE. REFER TO TECH. DRAWINGS)
- CONVENTION CENTER FLOOR BOX
- JUNCTION BOX
- FLOOR FURNITURE FEED
- CEILING RECEPTACLE
- CEILING DUPLEX RECEPTACLE
- CEILING FOURPLEX RECEPTACLE
- CEILING / FLOOR SPECIAL RECEPTACLE (FOR "X" SEE RECEPTACLE MODIFIER TAGS TABLE)
- CEILING JUNCTION BOX
- CEILING TV OUTLET
- POWER POLE
- SINGLE TOGGLE SWITCH
- PLUGMOLD
- EMERGENCY POWER OFF
- SINGLE PUSH BUTTON
- DUPLEX PUSH BUTTON

DEVICE GENERAL NOTES:

1. REFER TO SPECIFICATION SECTION 26 27 26 FOR SPECIFIC FLOOR DEVICE PRODUCT INFORMATION.
2. REFER TO TECHNOLOGY AND/OR AV LEGEND AND FLOOR PLANS TO CONFIRM ALL LOCATIONS THAT HAVE DATA OR DATA/AV REQUIREMENTS COMBINED WITH POWER IN FLOOR BOXES.
3. REFER TO TECHNOLOGY (AND/OR AV) DRAWINGS FOR DEDICATED LOW VOLTAGE CONDUIT AND FLOOR BOX DEVICE MOUNTING PLATE REQUIREMENTS. LOW VOLTAGE CONDUIT REQUIREMENTS ARE NOT DOCUMENTED ON POWER DRAWINGS.
4. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF TVS. MOUNT BEHIND TV DISPLAY OR ON TV MOUNTING BRACKET/SUPPORT.

EQUIPMENT

- MOTOR
- MOTOR AND DISCONNECT
- MOTOR AND FUSED DISCONNECT
- MOTOR AND CIRCUIT BREAKER DISCONNECT
- VARIABLE FREQUENCY DRIVE/MOTOR CONTROLLER
- NON-FUSED DISCONNECT
- FUSED DISCONNECT
- CIRCUIT BREAKER
- BRANCH CIRCUIT OR POWER PANEL
- LIGHTING CONTROL PANEL
- ELECTRICAL EQUIPMENT FREESTANDING OR WALL MOUNT
- METER
- CURRENT TRANSFORMER
- GROUND
- DELTA/WYE WITH GROUND
- POWER TRANSFORMER
- FUSE & SWITCH
- CIRCUIT BREAKER
- DRAWOUT CIRCUIT BREAKER
- KIRK-KEY INTERLOCK
- GROUND FAULT INTERRUPTER BREAKER
- CIRCUIT MONITORING DEVICE
- MECHANICAL EQUIPMENT IDENTIFICATION TAG
- SHORT CIRCUIT FAULT CALCULATION TAG REFER TO TABLE ON ONE-LINE DIAGRAM
- SURGE PROTECTION DEVICE
- MOTOR AND THERMAL OVERLOAD
- COMPANY SWITCH OR CAM-LOK PANEL
- AUTOMATIC TRANSFER SWITCH
- GENERATOR DOCKING STATION
- ELECTRICAL PLANEL (NUMBER OF SECTIONS)
- EQUIPMENT IDENTIFICATION TAG REFER TO ELECTRICAL EQUIPMENT SCHEDULE

FIRE ALARM

- SMOKE DETECTOR
- WALL SMOKE DETECTOR
- SMOKE/CARBON MONOXIDE DETECTOR
- WALL SMOKE/CARBON MONOXIDE DETECTOR
- HEAT DETECTOR
- DUCT DETECTOR
- BEAM DETECTOR RECEIVER
- BEAM DETECTOR TRANSMITTER
- VOICE EVAC PANEL
- ELEVATOR STATUS PANEL
- CEILING MOUNTED HORN [SPEAKER]
- WALL MOUNTED HORN [SPEAKER]
- CEILING MOUNTED HORN [SPEAKER]/STROBE
- WALL MOUNTED HORN [SPEAKER]/STROBE
- WALL MOUNTED SILENTONE
- FIRE SERVICE PHONE
- FIREMAN'S PHONE JACK
- ROTATING BEACON
- MANUAL PULL STATION
- MAGNETIC DOOR HOLD OPEN DEVICE
- TAMPER SWITCH
- FLOW SWITCH
- CEILING MOUNTED REMOTE INDICATOR LIGHT
- WALL MOUNTED REMOTE INDICATOR LIGHT
- WALL MOUNTED ADA STROBE
- CEILING MOUNTED STROBE
- ADDRESSABLE INPUT MODULE
- FIRE ALARM ADDRESSABLE RELAY
- ALARM BELL
- FIRE SMOKE DAMPER
- SMOKE CONTROL DAMPER
- CARBON MONOXIDE DETECTOR
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL
- TWO-WAY COMMUNICATION / AREA OF RESCUE ASSISTANCE CALL BUTTON
- TWO-WAY COMMUNICATION / AREA OF RESCUE ASSISTANCE (BASE STATION)

RACEWAY LEGEND

- A-2,4 — BRANCH CIRCUIT HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMERICAL INDICATES CIRCUIT NUMBER.
- A-2,4 (A) — BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A). REFER TO LIGHTING CONTROL MATRIX FOR LIGHTING ZONES.
- MOTOR CONNECTION
- UNDERGROUND FEEDER
- UNDERGROUND BRANCH CIRCUIT HOMERUN
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT RUNS UNDERFLOOR OR BELOW GRADE
- OR — CONDUIT RUN CONCEALED IN WALLS OR CEILING, OR EXPOSED WHEN CEILING ARE NOT PRESENT.

RECEPTACLE MODIFIER TAGS

TAG	OUTLET RATING	NEMA/CAT NO	FEEDER (NOTE 1)	WIRING NOTES
A	NOT USED	-	-	-
B	NON-LOCKING, 30A, 125V, 1PH	5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-GND
C	NON-LOCKING, 20A, 250V, 1PH	6-20R	2#12,#12G,3/4"C (100FT)	HOT-HOT-GND
D	NON-LOCKING, 30A, 250V, 1PH	6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-GND
E	NON-LOCKING, 50A, 250V, 1PH	6-50R	2#6,#10G,3/4"C (150FT)	HOT-HOT-GND
F	NOT USED	-	-	-
G	NON-LOCKING, 20A, 125/250V, 1PH	14-20R	3#12,#12G,3/4"C (100FT)	HOT-HOT-NEUT-GND
H	NOT USED	-	-	-
I	NOT USED	-	-	-
J	LOCKING, 20A, 125V, 1PH	L5-20R	2#12,#12G,3/4"C (50FT)	HOT-NEUT-GND
K	LOCKING, 30A, 125V, 1PH	L5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-GND
L	LOCKING, 20A, 250V, 1PH	L6-20R	2#12,#12G,3/4"C (100FT)	HOT-HOT-GND
M	LOCKING, 30A, 250V, 1PH	L6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-GND
N	NOT USED	-	-	-
O	NOT USED	-	-	-
P	LOCKING, 20A, 125/250V, 1PH	L14-20R	3#12,#12G,3/4"C (100FT)	HOT-HOT-NEUT-GND
Q	LOCKING, 30A, 125/250V, 1PH	L14-30R	3#10,#10G,3/4"C (120FT)	HOT-HOT-NEUT-GND
R	NOT USED	-	-	-
S	LOCKING, 20A, 208Y/120V, 3PH	L21-20R	4#12,#12G,3/4"C (120FT)	HOT-HOT-HOT-NEUT-GND
T	LOCKING, 30A, 208Y/120V, 3PH	L21-30R	4#10,#10G,3/4"C (130FT)	HOT-HOT-HOT-NEUT-GND
V	LOCKING, 50A, 250V, 3PH	HBL CS8369	3#6,#10G,1"C (175FT)	HOT-HOT-HOT-GND
W	PIN & SLEEVE, 60A, 208Y/120V, 3PH	HBL 560R9W	4#4,#8G,1-1/4"C (200FT)	HOT-HOT-HOT-NEUT-GND
X	PIN & SLEEVE, 100A, 208Y/120V, 3PH	HBL 5100R9W	4#1,#8G,1-1/2"C (250FT)	HOT-HOT-HOT-NEUT-GND
Y	NOT USED	-	-	-
Z	NOT USED	-	-	-

NOTE: DISTANCE NOTED IS MAXIMUM RUN LENGTH FOR WIRE SIZE. INCREASE PER NEC, INCLUDING GROUND, FOR LONGER RUNS OR FOR DERATING FACTORS (AMB TEMP, EXTERIOR, ETC.)

Steamboat
ALTERRA MOUNTAIN COMPANY
east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED MATTHEW JOHN O'BOYLE 52253 PROFESSIONAL ENGINEER

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

ELECTRICAL LEGEND

Scale

1/8" = 1'-0"

BP1B-E0.000

Steamboat Base Village Redevelopment	ME Engineers Inc.	PANEL:	DCH
480/277 Wye	BUS: 250 A	ENCLOSURE:	Type 1
3 Phase, 4 Wire + Gnd. 60Hz.	MAINS: MLO	MOUNTING:	Surface
SCCR:	GROUND BAR: Copper	FED FROM:	ATS-DC
NOTES:	OPTIONS:	LEVEL:	NEW IT ROOM FFE - LEVEL 0.9
1. PROVIDE LOCKOUT PROVISION AT BREAKER.		LOCATION:	ELECTRICAL 43
	PROVIDE SHINT MAIN BREAKER TIED TO EPO.	ISSUE DATE:	[SET PROJECT ISSUE DATE]
		REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.	

N	LC	DESCRIPTION	P	OCP	CKT	A	B	C	CKT	OCP	P	DESCRIPTION	LC	N
	L...	T-DCL	3	125	1	17246 5016			2	30	3	CRAC UNIT 1-02	M	1
--	--	--	--	--	3		14343 5016		4	--	--	--	--	--
--	--	--	--	--	5			14479 5016	6	--	--	--	--	--
1	M	CRAC UNIT 1-01	3	30	7	5016 4432			8	20	1	EDH 1-01	M	1
--	--	--	--	--	9		5016 1829		10	20	3	DC 1-01	M	1
--	--	--	--	--	11			5016 1829	12	--	--	--	--	--
1	M	GP 1-01	3	20	13	1192 1829			14	--	--	--	--	--
--	--	--	--	--	15		1192 0		16	20	1	SPARE	--	
--	--	--	--	--	17			1192 0	18	20	1	SPARE	--	
	--	SPARE	3	30	19	0 0			20	20	3	SPARE	--	
--	--	--	--	--	21		0 0		22	--	--	--	--	--
--	--	--	--	--	23			0 0	24	--	--	--	--	--
	--	SPARE	3	50	25	0 0			26	20	2	SPARE	--	
--	--	--	--	--	27		0 0		28	--	--	--	--	--
--	--	--	--	--	29			0 0	30	20	2	SPARE	--	
	--	SPARE	1	20	31	0 0			32	--	--		--	--
	--	SPARE	1	20	33		0 0		34	20	1	SPARE	--	
	--	SPARE	1	20	35			0 0	36	20	1	SPARE	--	
	--	SPARE	1	20	37	0 0			38	30	3	SPD	--	
	--	SPARE	1	20	39		0 0		40	--	--	--	--	--
	--	SPARE	1	20	41			0 0	42	--	--	--	--	--

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS
CALC	36188	28546	28687	93421
CNNCTD	34731	27396	27532	89659

DOWNSTREAM FEED THROUGH LUG PANELS

CONDUCTOR COLORS (EC TO LABEL IN PANEL)

	208Y/120	480Y/277
A	BLACK	BROWN
B	RED	ORANGE
C	BLUE	YELLOW
N	WHITE	WHITE/GRAY STRIPE
G	GREEN	GREEN

LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED

CATEGORY	CONNECTED	FACTOR	CALC. V-A	AMPS @ 480/277 Wye
LIGHTING	336	100%	336	0
RECEPTACLE	2700	100%	2700	3
MOTOR	43963	109%	47725	57
MISCELLANEOUS	40200	100%	40200	48
KITCHEN				
ELECTRIC HEAT				
EV CHARGING				
TOTAL	89659		93421	112

Steamboat Base Village Redevelopment	ME Engineers Inc.	PANEL:	DCL
120/208 Wye	BUS: 400 A	ENCLOSURE:	Type 1
3 Phase, 4 Wire + Gnd. 60Hz.	MAINS: 250 A - MCB	MOUNTING:	Surface
SCCR:	GROUND BAR: Copper	FED FROM:	T-DCL (ABOVE)
NOTES:	OPTIONS:	LEVEL:	NEW IT ROOM FFE - LEVEL 0.9
1. PROVIDE LOCKOUT PROVISION AT BREAKER.		LOCATION:	GONDOLA SQ GARAGE NORTH 75
		ISSUE DATE:	[SET PROJECT ISSUE DATE]
		REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.	

N	LC	DESCRIPTION	P	OCP	CKT	A	B	C	CKT	OCP	P	DESCRIPTION	LC	N
--	X	RACK MOUNT UPS	3	175	1	13333 180			2	20	1	SERVER ROOM CONVENIENCE RECEPT	R	
--	--	--	--	--	3		13333 360		4	20	1	SERVER ROOM CONVENIENCE RECEPT	R	
--	--	--	--	--	5			13333 180	6	20	1	SERVER ROOM CONVENIENCE RECEPT	R	
	R	HALLWAY CONVENIENCE RECEPT	1	20	7	540 373			8	20	1	SF 1-01	M	1
	R	SERVER ROOM CONVENIENCE RECEPT	1	20	9		180 180		10	20	1	GENERATOR ENCLOSURE RECEPTACLE	R	
	R	SERVER ROOM CONVENIENCE RECEPT	1	20	11			180 360	12	20	1	DEDICATED QUAD VENDOR 002	R	
	R	SERVER ROOM CONVENIENCE RECEPT	1	20	13	180 360			14	20	1	DEDICATED QUAD VENDOR 002	R	
		GENERATOR BLOCK HEATER	2	20	15		90 200		16	20	1	CLEAN AGENT FIRE CONTROL PANEL	X	
--	--	--	--	--	17			90 336	18	20	1	SERVER ROOM AND VENDOR ROOM LIGHTING	L	
		GENERATOR BATTERY CHARGER	1	20	19	180 1920			20	20	1	ECUH 1-01	S	1
	--	SPARE	1	20	21		0 0		22	20	1	SPARE	--	
	--	SPARE	2	30	23			0 0	24	20	1	SPARE	--	
--	--	--	--	--	25	0 0			26	20	1	SPARE	--	
	--	SPARE	2	20	27		0 0		28	20	1	SPARE	--	
--	--	--	--	--	29			0 0	30	20	1	SPARE	--	
		MISCELLANEOUS MECHANICAL CONTROLS	1	20	31	180 0			32	20	1	SPARE	--	
	--	SPARE	1	20	33		0 0		34	20	1	SPARE	--	
	--	SPARE	1	20	35			0 0	36	20	1	SPARE	--	
	--	SPARE	3	20	37	0 0			38	30	3	SPD	--	
--	--	--	--	--	39		0 0		40	--	--	--	--	--
--	--	--	--	--	41			0 0	42	--	--	--	--	--

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS
CALC	17281	14372	14509	46162
CNNCTD	17246	14343	14479	46069

DOWNSTREAM FEED THROUGH LUG PANELS

CONDUCTOR COLORS (EC TO LABEL IN PANEL)

	208Y/120	480Y/277
A	BLACK	BROWN
B	RED	ORANGE
C	BLUE	YELLOW
N	WHITE	WHITE/GRAY STRIPE
G	GREEN	GREEN

LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED

CATEGORY	CONNECTED	FACTOR	CALC. V-A	AMPS @ 120/208 Wye
LIGHTING	336	100%	336	1
RECEPTACLE	2700	100%	2700	7
MOTOR	373	125%	466	1
MISCELLANEOUS	40200	100%	40200	112
KITCHEN				
ELECTRIC HEAT				
EV CHARGING				
TOTAL	46069		46162	128

(EX) MECH IIA

LOCATION: GONDOLA SQ GARAGE... **VOLTAGE:** 480/277 Wye **BUS:** 800 A
SUPPLY FROM: UTILITY XFMR **SCCR:** **MAIN:** 800 A - MCB

LOADS SUMMARY	EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE	Load	
EXISTING METERED LOAD	245680								245680 VA	296 A
ATS-DC		336	2700	43963	40200				89659 VA	108 A
CONNECTED TOTALS (V-A)	245680	336	2700	43963	40200				335339 VA	403 A
DIVERSITY FACTORS	125%	100%	100%	109%	100%				--	--
DEMAND TOTAL (V-A)	307100	336	2700	47725	40200				400521 VA	482 A

NOTE:
EXISTING METER DATA IS OBTAINED FROM UTILITY FOR 1/18/20 THROUGH 1/18/21.
THE EXISTING LOAD ABOVE IS THE PEAK DEMAND OVER THIS PERIOD AND MULTIPLIED BY 1.25 IN THE DIVERSITY FACTOR.

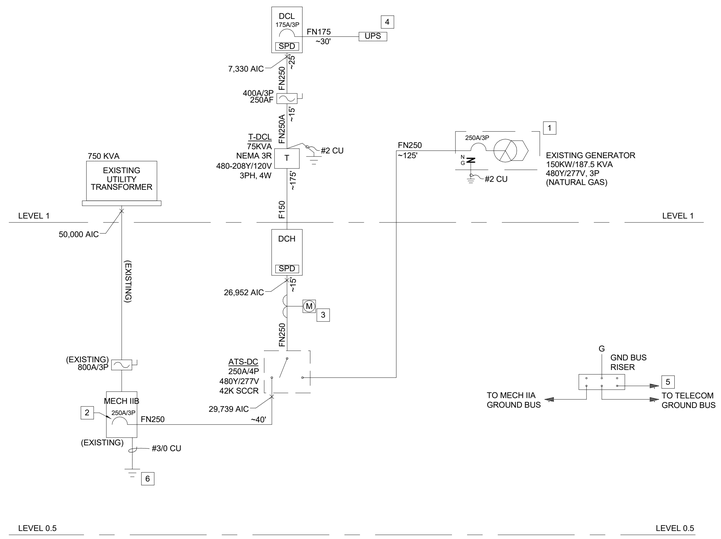
2 LOAD SUMMARY AND PANEL SCHEDULES

SCALE: NONE

ME FEEDER TABLE

BKR/OCPD	TAG	SETS	COPPER FEEDER/PIPE [3W]	TAG	SETS	COPPER FEEDER/PIPE [4W]
20	F20	1	(3#12,#12G) 3/4"C	FN20	1	(4#12,#12G) 3/4"C
30	F30	1	(3#10,#10G) 3/4"C	FN30	1	(4#10,#10G) 3/4"C
40	F40	1	(3#8,#10G) 3/4"C	FN40	1	(4#8,#10G) 3/4"C
50	F50	1	(3#8,#10G) 3/4"C	FN50	1	(4#8,#10G) 3/4"C
50	-	-	-	FN50A	1	(4#8,#8G) 1"C
50	-	-	-	FD50	1	(5#8,#8G) 1"C
60	F60	1	(3#6,#8G) 1"C	FN60	1	(4#6,#8G) 1"C
70	F70	1	(3#4,#8G) 1-1/4"C	FN70	1	(4#4,#8G) 1-1/4"C
80	F80	1	(3#4,#8G) 1-1/4"C	FN80	1	(4#4,#8G) 1-1/4"C
90	F90	1	(3#3,#8G) 1-1/4"C	FN90	1	(4#3,#8G) 1-1/4"C
100	F100	1	(3#3,#8G) 1-1/4"C	FN100	1	(4#3,#8G) 1-1/2"C
100	-	-	-	FN100A	1	(4#3,#6G) 1-1/2"C
100	-	-	-	FD100A	1	(5#3,#6G) 1-1/2"C
110	F110	1	(3#2,#6G) 1-1/2"C	-	-	-
125	F125	1	(3#1,#6G) 1-1/2"C	FN125	1	(4#1,#6G) 2"C
150	F150	1	(3#1/0,#6G) 1-1/2"C	FN150	1	(4#1/0,#6G) 2"C
175	F175	1	(3#2/0,#6G) 2"C	FN175	1	(4#2/0,#6G) 2"C
200	F200	1	(3#3/0,#6G) 2"C	FN200	1	(4#3/0,#6G) 2-1/2"C
225	F225	1	(3#4/0,#4G) 2-1/2"C	FN225	1	(4#4/0,#4G) 2-1/2"C
250	F250	1	(3#250,#4G) 2-1/2"C	FN250	1	(4#250,#4G) 3"C
250	-	-	-	FN250A	1	(4#250,#2G) 3"C
250	-	-	-	FD250A	1	(5#250,#2G) 3"C
300	F300	1	(3#350,#4G) 3"C	FN300	1	(4#350,#4G) 3"C
350	F350	1	(3#500,#3G) 3"C	FN350	1	(4#500,#3G) 3-1/2"C
400	F400	2	(3#3/0,#3G) 2"C	FN400	2	(4#3/0,#3G) 2-1/2"C
400	-	-	-	FN400A	2	(4#3/0,#1/0G) 2-1/2"C
400	F400B	1	(3#600,#3G) 4"C	FN400B	1	(4#600,#3G) 4"C
400	-	-	-	FD400A	2	(5#3/0,#1/0G) 2-1/2"C
450	F450	2	(3#4/0,#2G) 2-1/2"C	FN450	2	(4#4/0,#2G) 2-1/2"C
500	F500	2	(3#250,#2G) 2-1/2"C	FN500	2	(4#250,#2G) 3"C
500	-	-	-	FN500A	2	(4#250,#1/0G) 3"C
500	-	-	-	FD500A	2	(5#250,#1/0G) 3"C
600	F600	2	(3#350,#1G) 3"C	FN600	2	(4#350,#1G) 3"C

NOTES:
1 ALL CONDUCTORS ARE WITH THHN/THWN WIRE WITH 75DEG TERMINATIONS.
2 FEEDERS STARTING WITH "FD" CONTAIN DOUBLE NEUTRAL.



1 ONE-LINE DIAGRAM AND FEEDER TABLE

SCALE: NONE

GENERAL NOTES:

1. ALL FEEDERS AND TERMINATIONS SHALL BE COPPER 75 DEGREE RATED.
2. FEEDER LENGTHS ARE INDICATED FOR CALCULATION PURPOSES ONLY. THIS DRAWING IS NOT TO SCALE. FEEDERS LENGTHS MUST BE CONFIRMED WITH THE CONTRACTOR.
3. ALL CONDUIT RUNS SHALL BE RAN PERPENDICULAR AND PARALLEL TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT RUNS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
4. FOR CALCULATION PURPOSES THE FOLLOWING TRANSFORMER (2016 DOE) IMPEDANCES AND MAXIMUM SHORT CIRCUIT VALUES WERE USED
   15 KVA-3.1%Z, ISC=1,343A.
   30 KVA-2.5%Z, ISC=1,665A.
   45 KVA-3.2%Z, ISC=3,903A.
   75 KVA-2.8%Z, ISC=7,330A.
   112.5 KVA-3.4%Z, ISC=9,184A.
5. PROVIDE FULL BUSSING FOR ALL SPACES INDICATED ON PANEL BOARDS.
6. CONNECT ALL TRANSFORMER GROUNDING ELECTRODES TO GROUND BUS RISER AND COLD WATER PIPE.
7. ALL EQUIPMENT TO BE FULLY RATED FOR THE AVAILABLE FAULT. ASSUME 50000 AMPS AVAILABLE AT THE MAIN SERVICE.
8. REFER TO DETAIL SHEET E8.000 FOR PANELBOARD AND SWITCHBOARD NAMEPLATE DETAILS.
9. ALL NEW PANELS INDICATED HERE SHALL HAVE INTEGRAL SURGE PROTECTION DEVICES LOCATED INTERNAL TO PANEL. SURGE PROTECTION DEVICE TO HAVE ALL MODES OF PROTECTION.

KEYNOTES:

1 EXISTING GENERATOR TO BE RELOCATED FROM EXISTING LOWER GONDOLA BUILDING. REFER TO GENERATOR SPECIFICATIONS FOR GENERATOR REQUIREMENTS AND ALTERNATE DESIGN OF NEW 150KW GENERATOR.

2 PROVIDE NEW 225 AMP BREAKER IN EXISTING MAIN DISTRIBUTION PANEL TO SERVE NEW DATA CENTER LOADS INDICATED ON ONE-LINE. REFER TO MECH IIB LOAD SUMMARY ON THIS SHEET FOR LOAD JUSTIFICATION OF NEW AND EXISTING LOADS.

3 PROVIDE E-GAUGE CORE METERING (OR APPROVED EQUAL) FOR DATA CENTER. FACTORY TRAINING AND MONIITORING SOFTWARE TO BE INCLUDED.

4 PROVIDE HARDWIRE CONNECTION TO DATA CENTER UPS. COORDINATE WITH IT CONTRACTOR FOR EXACT CONNECTION REQUIREMENTS.

5 CONNECT A #4/0 CU GROUND TO COLD WATER PIPE AT THIS LEVEL.

6 PROVIDE SERVICE ENTRANCE GROUND RODS PER NEC 250.56 FOR EXISTING SERVICE ENTRANCE EQUIPMENT.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

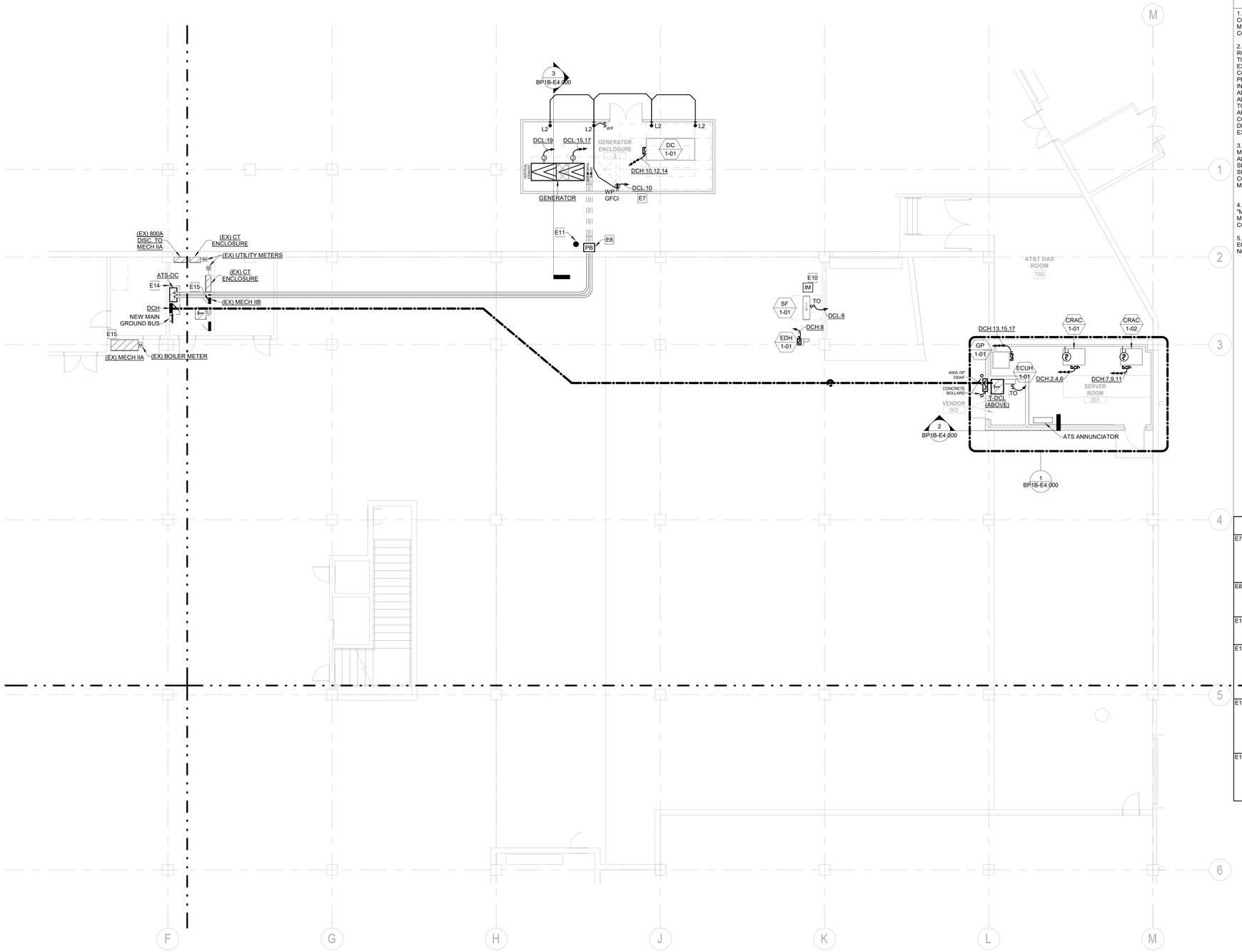
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
ELECTRICAL ONE-LINES AND PANEL SCHEDULES

Scale
1/8" = 1'-0"

BP1B-E0.001



1 IT ROOM - ELECTRICAL PLAN

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

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

KEYNOTES

E7	PROVIDE 120V CONNECTION TO LIGHTING AND RECEPTACLE AT GENERATOR ENCLOSURE. RECEPTACLE SHALL BE UNSWITCHED AND THE GFCI AT THE DEVICE SHALL NOT CAUSE THE LIGHTING TO SHUT OFF UPON TRIP.
E8	PROVIDE NEMA 3R RATED PULL BOX ON WALL. REFER TO DETAIL 6/E8.001 FOR THROUGH WALL PENETRATION AT THIS LOCATION FOR GENERATOR FEED TO ATS.
E10	PROVIDE FIRE ALARM INPUT MODULE FOR FAN SHUT OFF UPON ACTIVATION OF SERVER ROOM CLEAN AGENT SYSTEM.
E11	PROVIDE (2) NEW DRIVEN GROUND RODS PER NEC 250.56. PROVIDE GROUND TEST WELL FOR ONE OF THESE GROUND RODS AS INDICATED PER PLAN. REFER TO DETAIL 3/E8.001 FOR MORE INFORMATION. REFER TO ONE-LINES FOR EXACT GROUNDING SYSTEM REQUIREMENTS.
E14	PROVIDE ADEQUATE CLEARANCE ABOVE ELECTRICAL GEAR PER NEC 110.26(E)(1). CONTRACTOR TO INCLUDE REROUTING OF EXISTING PIPING AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE OF NEW EQUIPMENT IN EXISTING ELECTRICAL ROOM.
E15	PROVIDE NEW NAMEPLATE ON EXISTING MAIN SWITCHBOARDS IN EXISTING ELECTRICAL ROOMS. REFER TO DETAIL SHEET E8.001 FOR MORE NAMEPLATE INFORMATION. NAMEPLATE SHALL BE FASTENED WITH SET SCREWS.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED
52253
MATTHEW JOHN BERTE
PROFESSIONAL ENGINEER
3/5/21

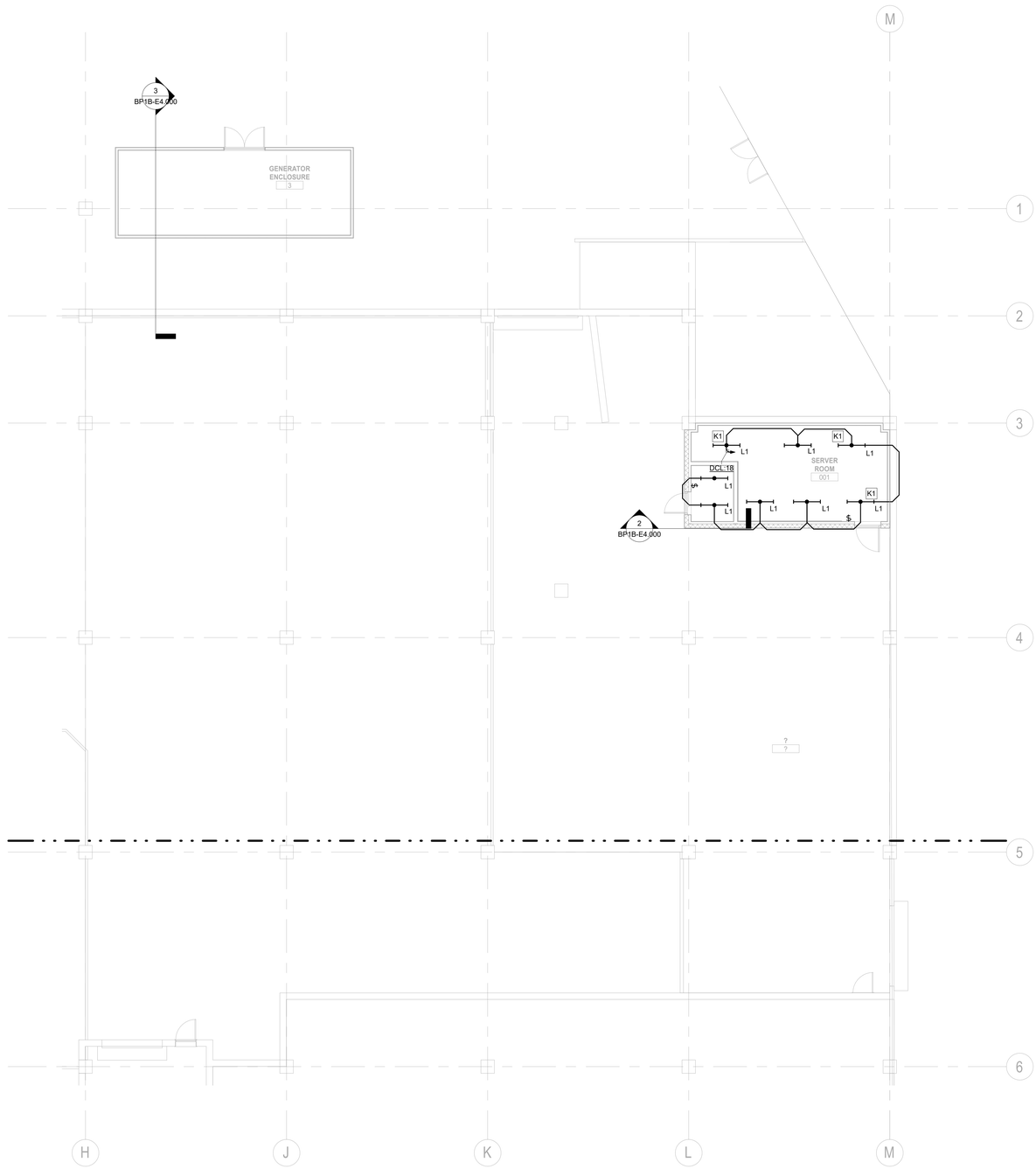
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
IT ROOM - ELECTRICAL PLAN

Scale
1/8" = 1'-0"

BP1B-E1.201



GENERAL NOTES:

1. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT.

2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND CABLETRAY/IT CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN ROOMS.

KEYNOTES

K1	PROVIDE INTEGRAL 90-MINUTE BATTERY PACK WITHIN LIGHT FIXTURE. BATTERY SHALL BE CIRCUITED TO THE LINE SIDE OF THE LINE VOLTAGE SWITCH CONTROLLING THE LIGHTS WITHIN THIS ROOM.

1 IT ROOM - LIGHTING PLAN

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

LED

Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
L1	42W LED, 3000 LUMENS PER 4 FEET OF FIXTURE, 3500K, 80+ CRI, 50,000+ HOURS	LED STRIPLIGHT WITH DIFFUSE... PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT	WHITE	120-277	PENDANT TO 10 FT. AFF	LITHONIA	CLX-L48-3000LM-SEF-FDL	COOPER METALUX SNLED SERIES	DAYBRITE FSS LED SERIES	ON/OFF	MEP, STORAGE	PROVIDE... QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A... OF 0.25% OF TOTAL QTY AND A MIN. QTY OF 2 FIXTURES.
L2	15 WATT LED, 600 LUMENS, 4000K,	WALL MOUNTED LED 'JELLY JAR'... LIGHT FIXTURE WITH METAL GAURDING AROUND FIXTURE LENSING /LIGHT SOURCE. LOW PROFILE, VAPOR TIGHT, LED LIGH SOURCE.	STANDARD	MVOLT	WALL	LITHONIA	OLVTWM-	APPROVED...	APPROVED...	ON/OFF	GENERATOR YARD	

Steamboat

ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.

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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED
MATTHEW JOHN O'BRIEN
52253
PROFESSIONAL ENGINEER

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

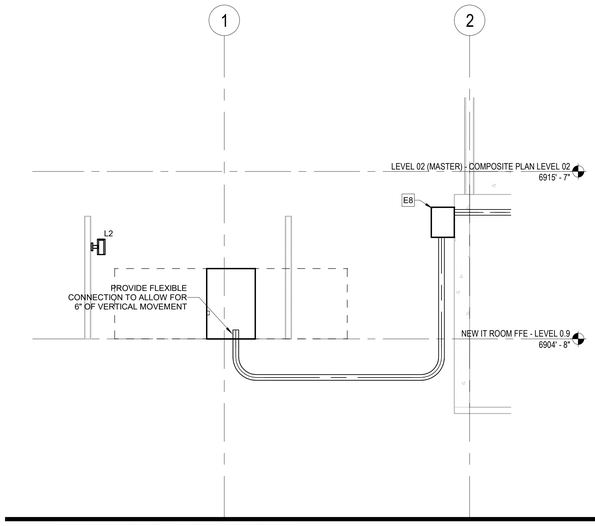
Description

IT ROOM - LIGHTING PLAN

Scale

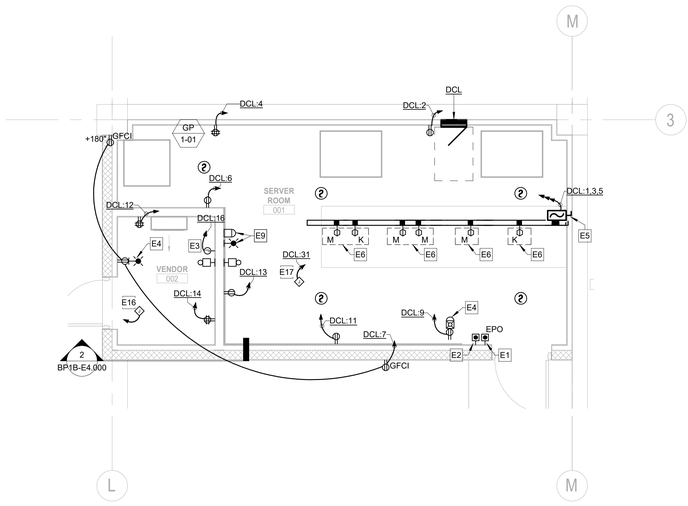
1/8" = 1'-0"

BP1B-E1.301



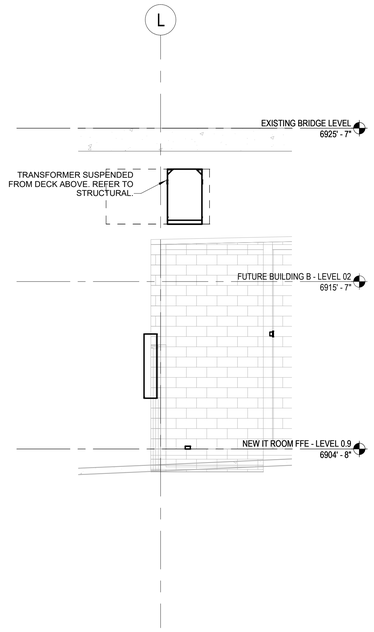
3 GENERATOR YARD SECTION

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



1 IT ROOM - ELECTRICAL ENLARGED PLAN

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



2 TRANSFORMER AT DATA CENTER ROOF

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

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

KEYNOTES

E1	PROVIDE EPO PUSH BUTTON TIED TO SHUNT TRIP MAIN BREAKER FOR DATA CENTER. LOCATE BEHIND ACRYLIC COVER OR SIMILAR. LABEL THIS BUTTON 'DATA CENTER POWER SHUTOFF'.
E2	PROVIDE MANUAL INITIATING SWITCH FOR CLEAN AGENT FIRE SUPPRESSION SYSTEM LOCATED ADJACENT TO DATA CENTER POWER EPO.
E3	PROVIDE NEW CONTROL PANEL FOR FIRE SUPPRESSION CLEAN AGENT SYSTEM. PANEL MANUFACTURER SHALL MATCH EXISTING BUILDING FIRE ALARM SYSTEM FOR INTERFACE AND SIGNALING TO FIRE ALARM SYSTEM. REFER TO DETAIL 5/E1.8001 FOR MORE INFORMATION.
E4	PROVIDE NEW FIRE ALARM NOTIFICATION DEVICE TO MATCH EXISTING BUILDING DEVICES. DEVICE TO PROVIDE AUDIO AND VISUAL NOTIFICATION.
E5	PROVIDE 225A/4P/600V 'STARLINE BUSWAY' (OR APPROVED EQUAL) INSTALLED ABOVE DATA CENTER RACK LINE UP. COORDINATE EXACT ROUTING OF CABLE TRAY AROUND DISCONNECTING MEANS AND RACEWAY.
E6	PROVIDE 'STARLINE PLUG IN UNIT' WITH SPECIAL TYPE NEMA RECEPTACLES AS INDICATED PER PLAN. ALL BUSWAY PLUG-IN UNITS TO HAVE INTEGRAL BREAKERS ON A PER RECEPTACLE BASIS.
E8	PROVIDE NEMA 3R RATED PULL BOX ON WALL. REFER TO DETAIL 6/E8.001 FOR THROUGH WALL PENETRATION AT THIS LOCATION FOR GENERATOR FEED TO ATS.
E9	PROVIDE CLEAN AGENT DISCHARGE ALARM NOTIFICATION. NOTIFICATION SHALL BE VISUAL AND AUDIBLE.
E16	PROVIDE 120V/1P ELECTRICAL CONNECTION FOR FIRE ALARM MISCELLANEOUS POWER, CONTROLS, PANELS, INTERLOCKS, ETC. THIS CONNECTION SHALL BE PROVIDED FROM A CONTINUOUS POWER SOURCE LOCATED IN THE BUILDING SIMILAR TO THE REST OF THE BUILDING'S FIRE ALARM SYSTEM.
E17	PROVIDE 120V/1P ELECTRICAL CONNECTION FOR MISCELLANEOUS MECHANICAL.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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

Seal / Signature

COLORADO LICENSED
MATTHEW JOHN BECK
52253
PROFESSIONAL ENGINEER
5/6/21

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

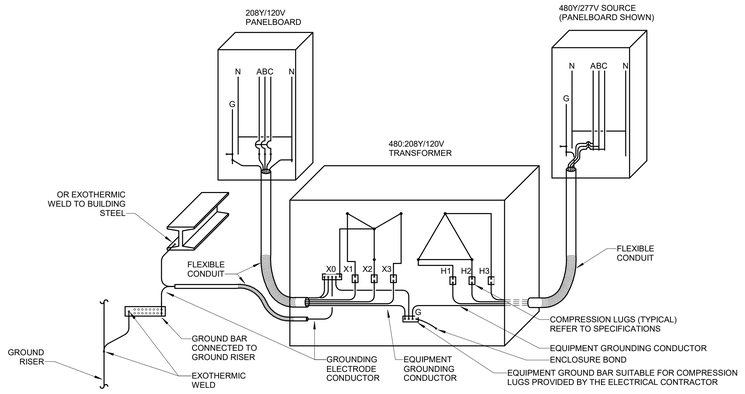
Description

ELECTRICAL ENLARGED PLANS AND SECTIONS

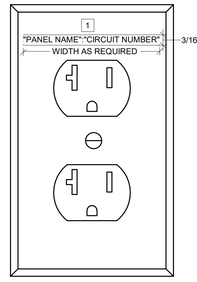
Scale

1/4" = 1'-0"

BP1B-E4.000



10 (GD) DRY-TYPE TRANSFORMER GROUNDING DETAIL
NO SCALE



KEYNOTES:

1 PROVIDE BLACK LETTERING ON CLEAR LABEL FOR NORMAL CIRCUITS AND RED LETTERING ON CLEAR LABEL FOR EMERGENCY/STANDBY CIRCUITS.

5 (DE) RECEPTACLE IDENTIFICATION
NO SCALE

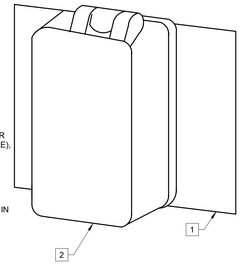
GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE WEATHER PROOF COVER FOR ALL DEVICES WITH "WP" INDICATED AS PART OF SYMBOL ON PLAN DRAWINGS, U.N.O.

KEYNOTES:

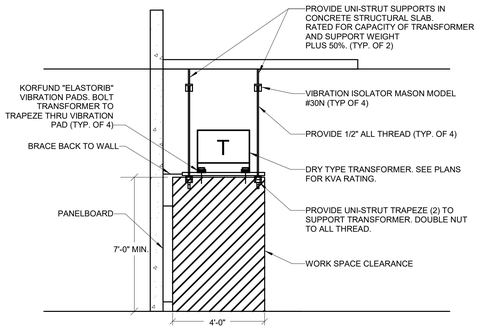
1 BACK-BOX:
FLUSH MOUNTED BOX WITH SINGLE GANG OR DOUBLE GANG COVER PLATE (AS APPLICABLE), SHOWN FOR REFERENCE ONLY.

2 COVER PLATE:
PROVIDE UL LISTED WEATHERPROOF CAST ALUMINUM SINGLE GANG OR DOUBLE GANG COVER (AS APPLICABLE) THAT WILL ALLOW FOR CABLES TO REMAIN PLUGGED IN WHILE IN THE CLOSED POSITION.

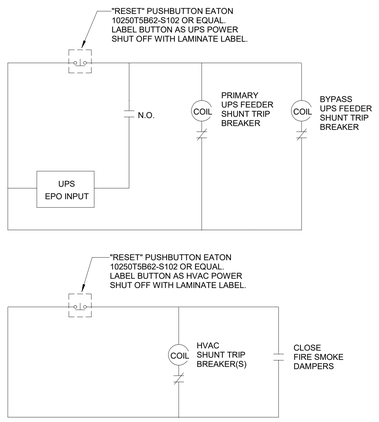


SYMBOLS = INDICATED BY "WP"

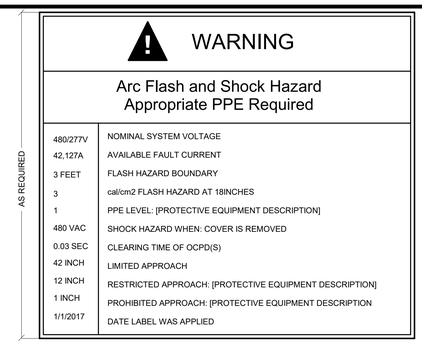
6 (PF) IN -USE WEATHER PROOF COVER
NO SCALE



8 (DT) TRAPEZE MOUNTING
NO SCALE

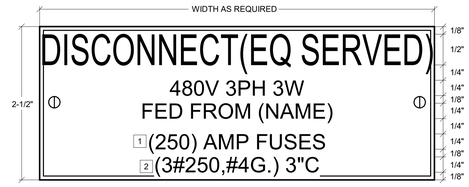


9 (DT) IT ROOM EPO
NO SCALE



NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

1 (DT) ARC FLASH LABEL
NO SCALE



NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

1 INDICATE FUSE SIZE, IF APPLICABLE

2 INDICATE BRANCH CIRCUIT WIRESIZE

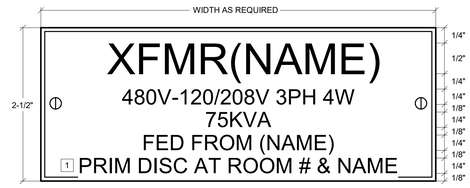
2 (DT) DISCONNECT NAMEPLATE
NO SCALE

NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

1 INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.

2 PROVIDE AND INDICATE DATE OF CALCULATION.

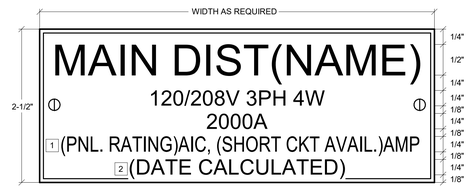
3 (DT) SUB DIST. CENTER & BRANCH PANEL NAME PLATE
NO SCALE



NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

1 INDICATE LOCATION OF PRIMARY DISCONNECT

4 (DT) TRANSFORMER NAMEPLATE
NO SCALE



NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

1 INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.

2 PROVIDE AND INDICATE DATE OF CALCULATION.

7 (DT) MAIN DIST.CENTER NAMEPLATE
NO SCALE

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED
MATTHEW JOHN BERTE
52253
PROFESSIONAL ENGINEER
2/5/2021

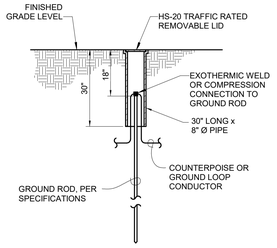
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

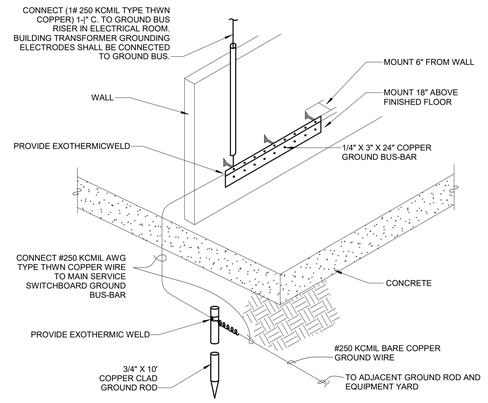
Description
ELECTRICAL AND LIGHTING DETAILS

Scale
NO SCALE

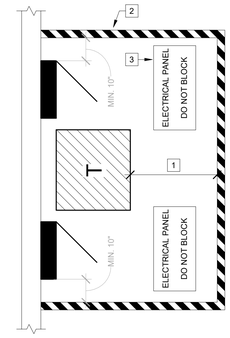
BP1B-E8.000



3 (GD) GROUND ROD INSPECTION WELL
NO SCALE



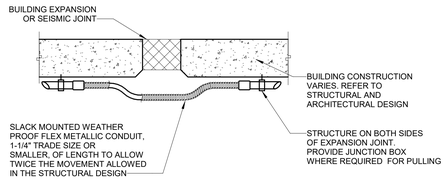
4 (GD) GROUNDING
NO SCALE



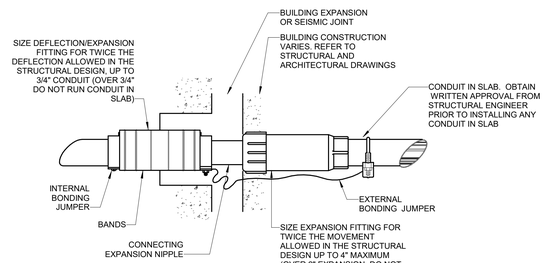
KEYNOTES:

1. REFER TO NEC TABLE 110.26(A)(1) AND OSHA TABLE S-1, FOR WORKING CLEARANCE DISTANCE REQUIREMENTS. MINIMUM 30" FROM DEADFRONT FACE OF ELECTRICAL EQUIPMENT.
2. 3", STRIPED, BLACK AND YELLOW FLOOR MARKING HAZARD TAPE. 3M MODEL 5702 OR APPROVED EQUIVALENT.
3. PERMANENT, WATER RESISTANT "ELECTRICAL PANEL DO NOT BLOCK" VINYL FLOOR LABEL WITH NFPA 170 PANEL SYMBOL. QUANTITY AND SPACING TO BE DETERMINED BY EOR.

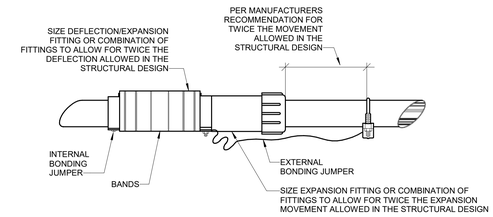
1 (DT) ELECTRICAL EQUIPMENT CLEARANCE MARKINGS
NO SCALE



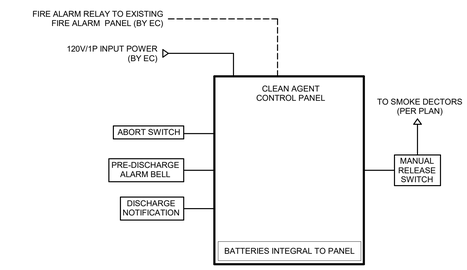
FLEX CONDUIT EXPANSION/DEFLECTION



COMBINATION EXPANSION/DEFLECTION FITTING IN SLAB

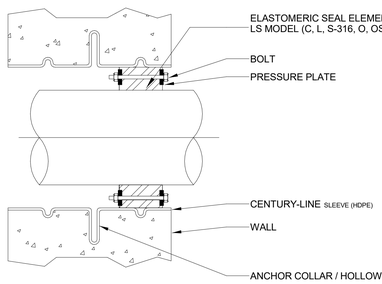


2 (DT) SEISMIC EXPANSION FITTING
NO SCALE



NOTE:
1. FIRE ALARM CONTROL PANEL TO SEND TROUBLE SIGNAL UPON ACTIVATION OF CLEAN AGENT SYSTEM VIA RELAY INDICATED ABOVE.

5 (FA) PREACTION FIRE ALARM CONTROL PANEL
NO SCALE



BASIS OF DESIGN: LINK-SEAL MODULAR SEALS WITH CENTURY-LINE SLEEVES

LS Model	Seal Element	Bolts/Nuts	Pressure Plate
C	EPDM (Black)	Zinc Dichromate/Organic Coated Carbon Steel Bolt	Reinforced Nylon Polymer
L	EPDM (Blue)	Zinc Dichromate/Organic Coated Carbon Steel Bolt	Reinforced Nylon Polymer
O	Nitrile	Zinc Dichromate/Organic Coated Carbon Steel Bolt	Reinforced Nylon Polymer
T	Silicone	Zinc Dichromate/Organic Coated Carbon Steel Bolt	Steel Zinc Dichromate
(C,L,O)+S-316 (see model options)		316 Stainless Steel	Reinforced Nylon Polymer

Sleeve Model	Description	Material
CS	Century-Line Sleeve	HDPE

6 ENVELOPE PENETRATION SEAL
NO SCALE

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

COLORADO LICENSED
MATTHEW JOHN O'BRIEN
52253
PROFESSIONAL ENGINEER

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
ELECTRICAL AND LIGHTING DETAILS

Scale
As indicated

BP1B-E8.001

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALD	ASSISTED LISTENING DEVICE
ALPETH	ALUMINUM POLYETHYLENE
ALS	ASSISTED LISTENING SYSTEM
ALT	ALTERNATE
AMP, A	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ANTENNA
ATSC	ADVANCED TELEVSION SYSTEMS COMMITTEE (DIGITAL TELEVISION SIGNAL)
AUX	AUXILIARY
AUDIO	MICROPHONE OR LINE LEVEL BALANCED SIGNAL
AV	AUDIO VIDEO
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL
BMS	BUILDING MANAGEMENT SYSTEM
BRI	BASIC RATE INTERFACE (ISDN)
C	CONDUIT
CATV	COMMUNITY ANTENNA TV (CABLE TV)
CC	CONTACT CLOSURE
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
CO	CENTRAL OFFICE
COAX	COAXIAL
CODEC	CODER / DECODER
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
DAS	DISTRIBUTED ANTENNA SYSTEM
DB	DECIBEL
DC	DIRECT CURRENT
DEMARC	DEMARCATION
DISC	DISCONNECT
DM	DIGITAL MEDIA SIGNAL
DMP	DIGITAL MEDIA PLAYER
DP	DISPLAYPORT
DSL	DIGITAL SUBSCRIBER LINE
DSP	DIGITAL SIGNAL PROCESSOR
DSS	DIGITAL SATELLITE SIGNAL
DVI-D	DIGITAL VISUAL INTERFACE-DIGITAL
DVI-I	DIGITAL VISUAL INTERFACE-INTEGRATED
DWG	DRAWING
EBC	EQUIPMENT BONDING CONDUCTOR
EIA	ELECTRONICS INDUSTRY ALLIANCE
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMC	ELECTROMAGNETIC COMPATIBILITY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRIC METALLIC TUBING
ENG	ELECTRONIC NEWS GATHERING
EX	EXISTING
FA	FIRE ALARM
FAA	FEDERAL AVIATION ADMINISTRATION
FACP	FIRE ALARM CONTROL PANEL
FLEX	FLEXIBLE
FM	FREQUENCY MODULATION
FO	FIBER OPTIC
FP	FLAT PANEL (VIDEO DISPLAY)
FTP	FILE TRANSFER PROTOCOL
GA	GAUGE
GALV	GALVANIZED
GB	GIGABYTE
GbPS	GIGABITS PER SECOND
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER

ABBREVIATIONS

GHz	GIGAHERTZ
GMP	GUARANTEED MAXIMUM PRICE
GUI	GRAPHICAL USER INTERFACE
HC	HORIZONTAL CROSS-CONNECT
HD	HIGH DEFINITION
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE
HVAC	HEATING, VENTILATING, AND AIR-CONDITIONING
Hz	HERTZ
IC	INTERMEDIATE CROSS-CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEC	INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
IF	INTERFACE
IG	ISOLATED GROUND
IMC	INTERMEDIATE GRADE METALLIC CONDUIT
IP	INTERNET PROTOCOL (ETHERNET)
IR	INFRARED SIGNAL
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
ISO	INTERNATIONAL ORGANIZATION OF STANDARDS
J-BOX	JUNCTION BOX
kb	KILOBIT
kbps	KILOBIT PER SECOND
kcmil	THOUSANDS OF CIRCULAR MILLS
kHz	KILOHERTZ
km	KILOMETER
kVA	KILOVOLT AMPERES
kW	KILOWATT
kWh	KILOWATT-HOURS
LAN	LOCAL AREA NETWORK
LED	LIGHT-EMITTING DIODE
LEC	LOCAL EXCHANGE CARRIER (OR SP)
LFC	LIQUID TIGHT FLEXIBLE CONDUIT
LUMEN	LUMINOUS FLUX (PROJECTOR BRIGHTNESS)
LV	LOW VOLTAGE
LVC	LOW VOLTAGE CONTROL INTERFACE
M	METER
mA	MILLIAMPERE
MAG	MAGNETIC
MB	MEGABYTE
Mbps	MEGABITS PER SECOND
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MHz	MEGAHERTZ
mm	MILLIMETER
MMFO	MULTI-MODE FIBER OPTIC
MNS	MASS NOTIFICATION SYSTEM
MPOE	MAIN POINT OF ENTRY
MPOP	MINIMUM POINT OF PRESENCE
MTR	MAIN TELECOM ROOM
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NETWORK INTERFACE CARD
NID	NETWORK INTERFACE DEVICE
NIT	1 CANDELA PER SQUARE METER (FLAT PANEL BRIGHTNESS)
nm	NANOMETER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OFE	OWNER FURNISHED EQUIPMENT
OS	OPERATING SYSTEM
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSP	OUTSIDE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER

ABBREVIATIONS

PA	PUBLIC ADDRESS
PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PBX	PRIVATE BRANCH EXCHANGE
PCI	PAYMENT CARD INDUSTRY
PE	POLYETHYLENE
PH	PHASE
POTS	PLAIN OLD TELEPHONE SERVICE
PR	PAIRS
PRI	PRIMARY RATE INTERFACE (ISDN)
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PROX	PROXIMITY
PTZ	PAN TILT ZOOM CAMERA
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RF	RADIO FREQUENCY SIGNAL
RGBHV	HIGH RESOLUTION ANALOG VIDEO
RGS	RIGID GALVANIZED STEEL
RH	RELATIVE HUMIDITY
RMC	RIGID METALLIC CONDUIT
RNC	RIGID NON-METALLIC CABLE
RS-232	BI-DIRECTIONAL CONTROL DATA STREAM (RS-232/RS-422/RS485)
RX	RECEIVE
SMFO	SINGLE-MODE FIBER OPTIC
SMPOE	SECONDARY MAIN POINT OF ENTRY
SP	SERVICE PROVIDER
SPEAKER	SPEAKER LEVEL SIGNAL
SPL	SOUND PRESSURE LEVEL
STEREO	A BALANCED 2 CHANNEL AUDIO SIGNAL
STI-PA	SPEECH INTELLIGIBILITY INDEX - PUBLIC ADDRESS
STP	SHIELDED TWISTED PAIR
SW	SWITCH
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TCP	TRANSMISSION CONTROL PROTOCOL
TCP/IP	TRANSMISSION CONTROL PROTOCOL WITH INTERNET PROTOCOL
TDD	TELECOMMUNICATIONS DEVICE FOR THE DEAF
TDR	TIME DOMAIN REFLECTOMETER
TDR	TELECOM DEMARC ROOM
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY (SP)
TGB	TELECOMMUNICATIONS GROUND BUS BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
TP	TOUCH PANEL (CONTROL SYSTEM)
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
UBS	UNIFORM BUILDING CODE
UC	UNDER COUNTER
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
V	VOLTAGE
VC	VOLUME CONTROL
VGA	VIDEO GRAPHIC ARRAY (ANALOG COMPUTER SIGNAL, SEE ALSO RGBHV)
VM	VOLTMETER
VTC	VIDEO TELECONFERENCE SYSTEM
W	WATT
WAN	WIDE AREA NETWORK
WATS	WIDE AREA TELECOMMUNICATIONS SERVICE
WLAN	WIRELESS LOCAL AREA NETWORK (WIFI)
WM	WIRELESS MICROPHONE
WP	WEATHER PROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

GENERAL TECHNOLOGY SYSTEM REQUIREMENTS:

1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DEVICE OUTLETS SHALL BE MOUNTED VERTICALLY.
2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
3. ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY, ON THE SAME SIDE OF THE STUD. WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE.
4. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF THESE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL).
5. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, MASONRY, AND GYP WALLS.
6. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS,LEVELS,SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES,ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS.THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED.HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
7. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT IS NOT LIMITED TO:
   A. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, TECHNOLOGY LAN, FIRE PROTECTION PLAN, ETC.)
   B. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES,
   C. THIS CONTRACTOR SHALL ASSIST THE DIVISION 21, 22, & 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL CEILING CLEARANCES,CABLE TRAY, CLEARANCES THROUGHOUT, ETC.).
8. DEFINITIONS:

A. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.

B. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".

C. "PROVIDE" MEANS TO "FURNISH AND INSTALL".

D. "EQUIVALENT"MEANS"MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS."SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.

E. "WORK BY OTHER(S)(CONTRACTOR)","RE:DIVISION XX",AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT BEFORE SUBMITTING BID.

9. FUTURE WORK:
   A. THE DRAWINGS AND SPECIFICATIONS MAY INDICATE SOME WORK WHICH IS TO BE PROVIDED UNDER THIS SCOPE OF WORK BUT WHOSE TIMING MAY BE DIFFERENT THAN THE REST OF THE WORK.THIS WORK GENERALLY FACILITATES THE INSTALLATION OF "TENANT FINISH" WORK OR FOOD SERVICE WORK. IT IS WITHIN THIS DIVISION'S SCOPE OF WORK TO COORDINATE THIS WORK WITH THE WORK OF THE CONTRACTOR PROVIDING THE FUTURE SCOPE OF WORK.
10. "FIRE STOPPING"REQUIREMENT.ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS AND CONDUIT/SLEEVE OPENINGS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR ALL APPLICABLE CODES.
11. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM CLEARANCE REQUIREMENTS TO DUCTWORK,CONDUIT, CABLE TRAY. LIGHTING, ETC.
12. ALL COMMUNICATIONS RACEWAY AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, SLEEVES, CABLE TRAY, J-HOOKS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (I.E. CAT.5E ANDCAT.6/CAT.6A),NO HORIZONTAL CABLE LENGTH (BASIC LINK) SHALL EXCEED 90 METERS (295 FEET).
13. CONDUIT SLEEVES SHALL BE INSTALLED THROUGH ALL WALLS WHERE CABLING IS ROUTED USING J-HOOKS TO PROVIDE CONTINUOUS UN-OBSTRUCTED PATHWAYS TO NEAREST COMMUNICATIONS ROOMS FROM STATIONS DEVICES.
14. REFER TO AV CONSTRUCTION DOCUMENTS FOR AV CONDUIT REQUIREMENT INCLUDING SIZES,QUANTITIES, AND LOCATIONS.
15. ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS, AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250.
16. ALL COMMUNICATION CONDUIT OR SLEEVES ROUTED THROUGH ELECTRICAL ROOMS SHALL BE PHYSICALLY CONTINUOUS AND BONDED TO GROUND SYSTEM.
17. ANY CABLE TRAY ROUTED THROUGH ELECTRICAL ROOMS OR WITHIN PROXIMITY OF INTERFERING ELECTRICAL SOURCES, SHALL BE ENCLOSED TYPE USING SOLID BOTTOM TROUGH WITH REMOVABLE COVERS. CABLE TRAY SHALL BE BONDED TO GROUND SYSTEM.
18. J-HOOKS SHALL BE ONLY USED IN ACCESSIBLE FINISHED CEILING SPACES NOT SERVED BY CABLE TRAY OR CONDUIT.
19. ALL TELE/DATA CONDUIT AND OTHER RACEWAY INFRASTRUCTURE SHALL HAVE NO LESS THAN 25% SPARE CAPACITY ABOVE THE NEC MINIMUM FILL RATIOS.
20. ALL COMMUNICATIONS CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL COMMUNICATIONS CONDUIT 2" AND SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS.
21. COMMUNICATIONS CONDUIT ROUTING SHALL NOT EXCEED 180° FOR THE SUM OF ELBOWS FOR A PARTICULAR CONDUIT RUN WITHOUT AN APPROVED PULL-BOX OR MANHOLE. THE MAXIMUM BEND FOR ANY LOCATION SHALL NOT EXCEED 90°.
22. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS INCLUDING RISER CONDUITS/SLEEVES, HORIZONTAL CONDUITS, DEVICE CONDUITS, AND SLEEVES.
23. ALL RISER CONDUIT SHALL BE STUBBED A MINIMUM OF 2" AFF. PROVIDE A 2" CURB IF SLAB BLOCK-OUT IS USED RATHER THAN SLEEVES. SERVICE PROVIDER AND UNDERGROUND CONDUIT SHALL BE STUBBED A MINIMUM OF 4" AFF.
24. ALL FIBER OPTIC CABLE SHALL BE ARMORED OR INSTALLED WITHIN APPROVED/UL-LISTED INNER-DUCT COMPLETE WITH FITTINGS, COUPLINGS, AND ADAPTERS (CARLON RISER-GARD, PLENUM-GARD, OR APPROVED EQUAL). FIBER OPTIC CABLE CAN UTILIZE METALLIC ARMORED SHEATH RATHER THAN USINGINNER-DUCT.
25. FINAL CABLE INSTALLATION, ALL UNDERGROUND COMMUNICATIONS CONDUIT SHALL BE SEALED TO PREVENT WATER, GAS AND RODENTS FROM ENTERING FACILITY.
26. ALL COMMUNICATIONS CABLE INSTALLED BELOW GRADE SHALL BE GEL FILLED PIC/PE-89 PER RUS/REA DESIGNATION.
27. ALL UNDERGROUND COMMUNICATIONS CONDUIT SHALL HAVE METALLIC LOCATOR TAPE.
28. ALL COMMUNICATIONS CABLE SHALL BE PLENUM RATED (CMP), RISER RATED (CMR) AND UNDERGROUND RATED (WATERBLOCK) ACCORDING TO USE AND ENVIRONMENTAL CONDITIONS.
29. ALL BACKBONE (RISER) COMMUNICATIONS CABLE SHALL BE INSTALLED BASED ON A PHYSICAL STAR TOPOLOGY. REFER TO ONE-LINES DIAGRAMS FOR SPECIFIC ROUTING REQUIREMENTS.
30. ANY COMMUNICATIONS CABLES (FIBER AND COPPER) INSTALLED BELOW GRADE, UNDERGROUND,OR OTHER LOCATIONS SUBJECT TO WET CONDITIONS SHALL UTILIZE WATERBLOCK CONSTRUCTION.
31. CONTRACTOR SHALL NOT PAINT CABLES AND/OR SPRAY CABLES WITH FIRE PROOFING MATERIAL AS IT CAN AFFECT CABLE PERFORMANCE AND WILL VOID THE CABLE WARRANTY.

COMMUNICATIONS SYSTEMS SYMBOLS

	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
$\nabla_{\#}$	C.02 / R.01	DATA OUTLET WALL MOUNTED AT 18"AFF U.N.O. (# = PORT QUANTITY, NO /# = 1-PORT)
∇_{CAM}	C.03 / S.02	DATA OUTLET FOR IP-BASED SECURITY CAMERA WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.

GENERAL NOTES:

1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR DEVICE INFORMATION.
2. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS AS DEPICTED IN OTHER SYSTEMS DRAWINGS.

PATHWAY REQUIREMENTS:

1. J-HOOK PATHWAY: ROUTE AND TERMINATE CONDUIT WITHIN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE DEDIATED J-HOOKS AT 48-INCHES ON CENTER FOR REMAINING CABLE RUN TO NEAREST CABLE TRAY (AS APPLICABLE) OR TELECOM ROOM / HORIZONTAL CROSS-CONNECT LOCATION, UNLESS NOTED OTHERWISE. PROVIDE CONDUIT PATHWAY THROUGH WALLS AND ACCROSS NON-ACCESSIBLE OR EXPOSED CEILING AREAS TO ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.

SECURITY SYSTEMS SYMBOLS

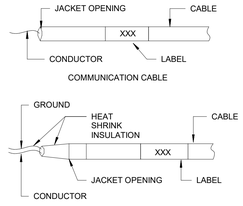
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
L:XX	S.01	FIXED (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
C XXX	S.03	CONTROLLED DOORWAY: REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
K	S.03	KEYPAD / CARD READER MOUNTED AT 48"AFF.
SCP-X	S.??	SECURITY CONTROL PANEL (SCP-X) WITH APPLICABLE POWER SUPPLIES (X= PANEL NUMBER).

GENERAL NOTES:

1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR DEVICE INFORMATION.
2. REFER TO "COMMUNICATION SYSTEM SYMBOLS" LEGEND FOR STRUCTURED CABLING (DATA) REQUIREMENTS FOR IP-ENABLED DEVICES. SECURITY DETAILS AND/OR SCHEDULES DEFINE RACEWAY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO BACK-BOX TYPE, SIZE, MOUNTING CONDITION AND HEIGHT.

PATHWAY REQUIREMENTS:

1. J-HOOK PATHWAY: ROUTE AND TERMINATE CONDUIT WITHIN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE DEDIATED J-HOOKS AT 48-INCHES ON CENTER FOR REMAINING CABLE RUN TO NEAREST CABLE TRAY (AS APPLICABLE) OR SECURITY ROOM / TELECOM ROOM, UNLESS NOTED OTHERWISE. PROVIDE CONDUIT PATHWAY THROUGH WALLS AND ACCROSS NON-ACCESSIBLE OR EXPOSED CEILING AREAS TO ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.

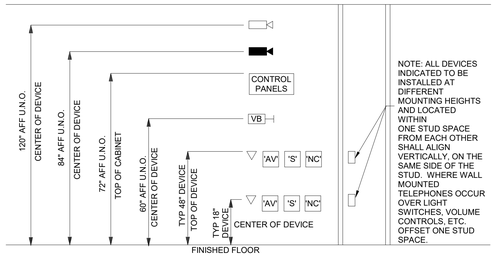


AUDIOVISUAL / SECURITY /NURSE CALL SYSTEMS CABLE

GENERAL NOTES:

1. CABLES: ALL SYSTEM CABLES OUTSIDE OF CONDUIT SHALL BE SUPPORTED WITHIN CEILING SPACES, UNDER FLOORS SPACES, ALONG WALLS, AND WITHIN EQUIPMENT RACKS PER SPECIFICATIONS.
2. CABLE DRESSING: ALL CABLES SHALL BE INSTALLED PER INFORMATION SHOWN HERE AND WITHIN SPECIFICATIONS. ALL CABLE NOT MEETING REQUIREMENTS HEREIN WILL BE REDRESSED AND / OR REPLACED AS NECESSARY.
3. LABELS: PROVIDE THERMAL TRANSFER / SELF-LAMINATING TYPE LABELS LOCATED ~2 INCHES FROM EACH END OF TERMINATED CABLE. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.
4. HEAT SHRINK: PROVIDE HEAT SHRINK AT EACH EACH END OF TERMINATED CABLE FOR ALL AUDIOVISUAL / SECURITY / NURSE CALL CABLES. TAPE (ELECTRICAL OR OTHERWISE) UTILIZED IN PLACE OF HEAT SHRINK SHALL NOT BE ACCEPTED.
5. GROUND CONDUCTOR: PROVIDE CLEAR HEAT SHINK FOR ALL TERMINATED GROUND CONDUCTORS. FOR ALL UN-TERMINATED GROUND CONDUCTORS, CUT BACK TO JACKET OPENING AND COVER WITH HEAT SHRINK.

CABLE DRESS REQUIREMENTS



TYPICAL DEVICE MOUNTING HEIGHTS

NO SCALE

NOTES:

1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
3. ALL ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF DEVICE). VERIFY HEIGHTS WITH ARCHITECT.
4. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.

CROSS-CONNECTS

	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
SP	N/A	TELECOMMUNICATIONS SERVICE PROVIDER CROSS-CONNECT (SP) PROVIDED BY OTHERS. (SHOWN FOR REFERENCE ONLY)
MC	C.12	TELECOMMUNICATIONS MAIN CROSS-CONNECT (MC).
IC	C.12	TELECOMMUNICATIONS INTERMEDIATE CROSS-CONNECT (IC).
HC	C.12	TELECOMMUNICATIONS HORIZONTAL CROSS-CONNECT (HC).
SP	C.11	FIBER OPTIC DATA SERVICE PROVIDER CROSS-CONNECT (SP) PROVIDED BY OTHERS, (SHOWN FOR REFERENCE ONLY).
MC	C.11	FIBER OPTIC DATA MAIN CROSS-CONNECT (MC).
IC	C.11	FIBER OPTIC DATA INTERMEDIATE CROSS-CONNECT (IC).
HC	C.13	DATA HORIZONTAL CROSS-CONNECT (HC).
ST	C.12	TELECOMMUNICATIONS SERVICE TIE CROSS-CONNECT.
ST	C.11	FIBER OPTIC SERVICE TIE CROSS-CONNECT.

INFRASTRUCTURE

	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
TMGB	G.01	MAIN TELECOMMUNICATIONS GROUND BUS.
	N/A	2-POST EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	4-POST EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	WALL MOUNTED SWING OUT EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	EQUIPMENT RACK OR CABINET PROVIDED BY OTHERS. SHOWN FOR REFERENCE TO ALLOCATE FLOOR SPACE.
HH	U.03	COMMUNICATIONS IN-GRADE HAND HOLE / PULL-BOX.

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
TECHNOLOGY LEGEND

Scale
NO SCALE

BP1B-T0.000

1 TECHNOLOGY SITE PLAN - LOWER LEVEL 01
SCALE: 1" = 30'-0"

GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.

2. ALL SITE TELECOMMUNICATIONS CONDUIT ROUTING IS INDICATED FOR REFERENCE ONLY. REFER TO CIVIL SITE PLAN TO VERIFY EXACT ROUTING AND COORDINATION WITH OTHER SITE UTILITIES.

3. ALL TELECOMMUNICATIONS MANHOLE AND PULL-BOX LOCATIONS ARE INDICATED FOR REFERENCE ONLY. REFER TO CIVIL SITE PLAN TO VERIFY EXACT PLACEMENT AND COORDINATION WITH OTHER SITE UTILITIES.

4. ALL SITE TELECOMMUNICATIONS CONDUIT SHALL BE INSTALLED BELOW FROST LINE.

5. ALL SITE TELECOMMUNICATIONS CONDUIT SHALL MAINTAIN A MINIMUM OF 12-INCHES OF SEPARATION FROM ELECTRICAL CONDUIT WHEN INSTALLED IN SHARED DUCTBANK.

KEYNOTES

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

2305 MOUNT WERNER CIRCLE
STEAMBOAT, CO 80487

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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

Seal / Signature

NOT FOR CONSTRUCTION

Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
TECHNOLOGY COMPOSITE PLAN - LOWER LEVEL 01

Scale
1" = 30'-0"

BP1B-T1.100

1 TECHNOLOGY SITE PLAN - LEVEL 01 (PLAZA LEVEL)
SCALE: 1" = 30'-0"

GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.

2. ALL SITE TELECOMMUNICATIONS CONDUIT ROUTING IS INDICATED FOR REFERENCE ONLY. REFER TO CIVIL SITE PLAN TO VERIFY EXACT ROUTING AND COORDINATION WITH OTHER SITE UTILITIES.

3. ALL TELECOMMUNICATIONS MANHOLE AND PULL-BOX LOCATIONS ARE INDICATED FOR REFERENCE ONLY. REFER TO CIVIL SITE PLAN TO VERIFY EXACT PLACEMENT AND COORDINATION WITH OTHER SITE UTILITIES.

4. ALL SITE TELECOMMUNICATIONS CONDUIT SHALL BE INSTALLED BELOW FROST LINE.

5. ALL SITE TELECOMMUNICATIONS CONDUIT SHALL MAINTAIN A MINIMUM OF 12-INCHES OF SEPARATION FROM ELECTRICAL CONDUIT WHEN INSTALLED IN SHARED DUCTBANK.

KEYNOTES

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

2305 MOUNT WERNER CIRCLE
STEAMBOAT, CO 80487

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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

Seal / Signature

NOT FOR CONSTRUCTION

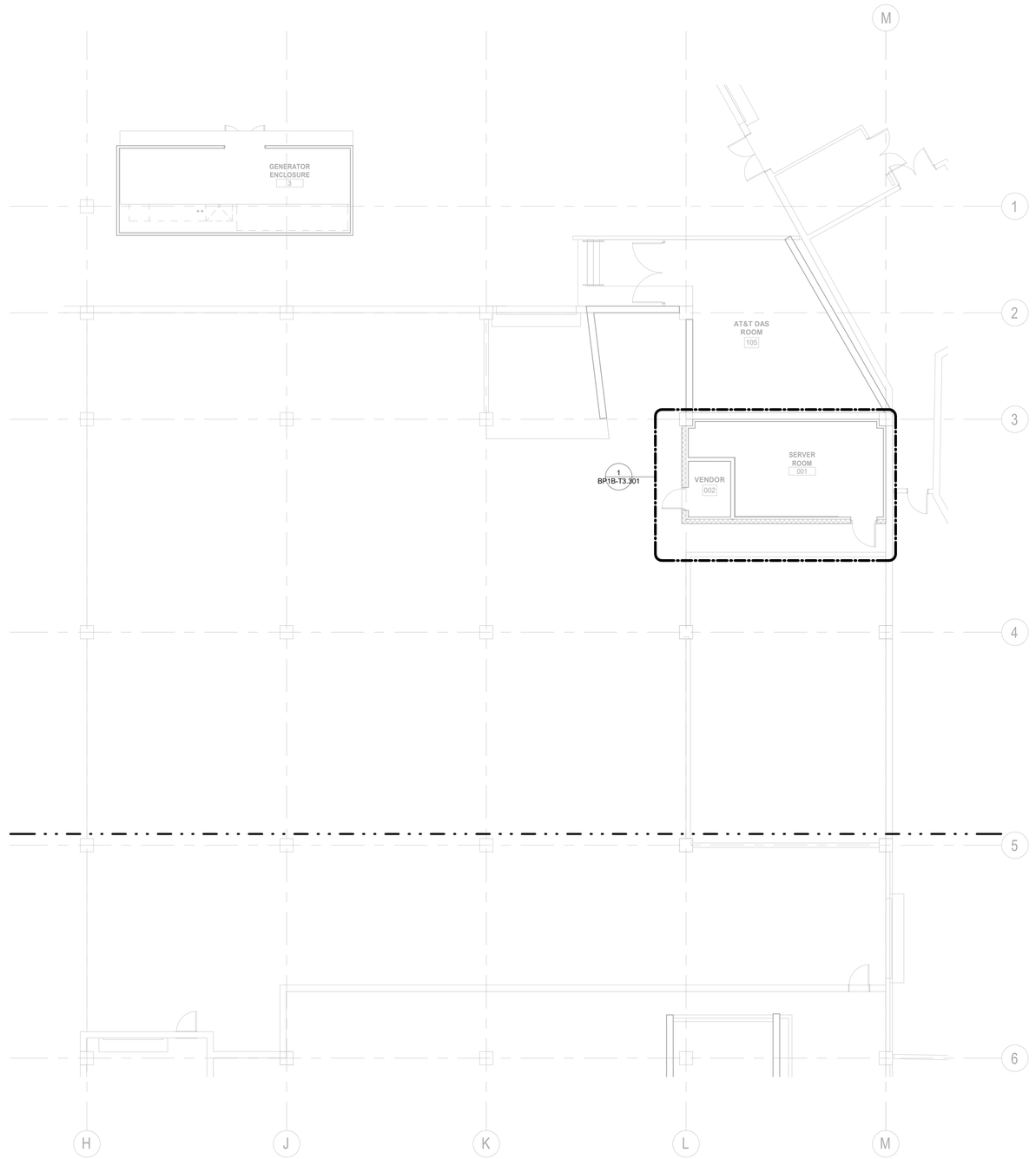
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
TECHNOLOGY COMPOSITE PLAN - LEVEL 01

Scale
1" = 30'-0"

BP1B-T1.101



1 IT ROOM - TECHNOLOGY PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.

2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO DATA CENTER EQUIPMENT (PRODUCTS AND INSTALLATION) DESCRIBED IN KEYNOTES BELOW, SPECIFICALLY DIVSION 27.

3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL WALL SPACE REQUIREMENTS WITH OTHER LOW VOLTAGE TRADES (SECURITY, AV, FIRE ALARM, ETC.) DURING SHOP DRAWING COORDINATION PROCESS TO CONFIRM FINAL PLACEMENT OF ALL TERMINATIONS AND EQUIPMENT WITHIN DATA CENTER.

KEYNOTES

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
	2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

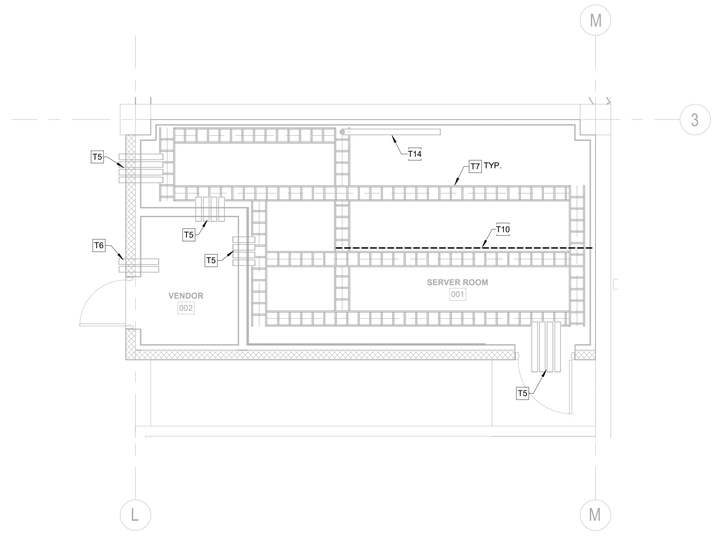
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
IT ROOM - TECHNOLOGY PLAN

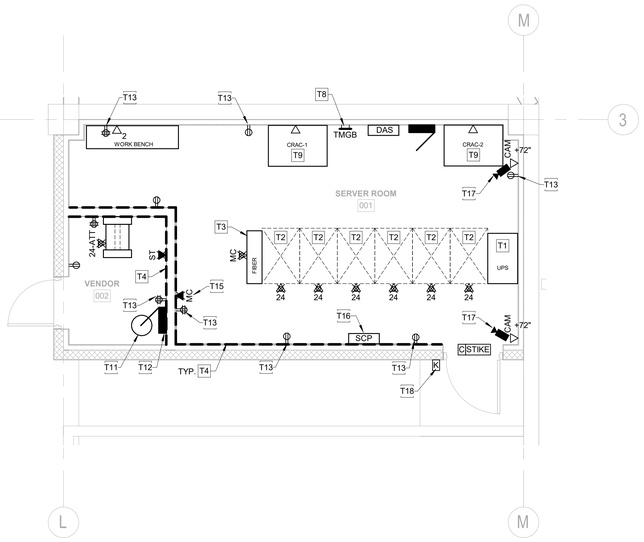
Scale
1/8" = 1'-0"

BP1B-T2.201



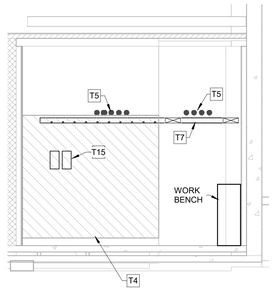
2 SERVER ROOM - TECHNOLOGY ENLARGED LADDER PLAN

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



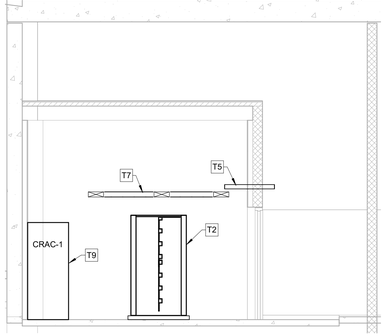
1 SERVER ROOM - TECHNOLOGY ENLARGED FLOOR PLAN

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



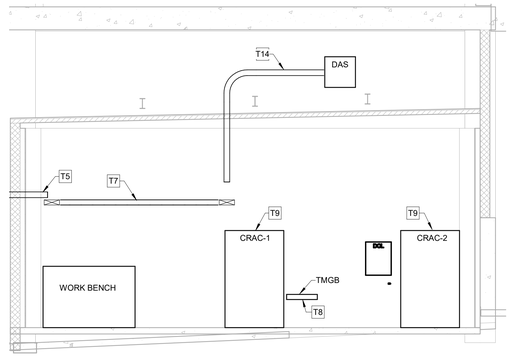
6 SERVER ROOM WEST SECTION

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



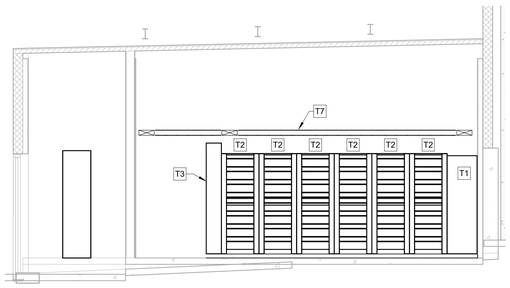
4 SERVER ROOM EAST SECTION

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



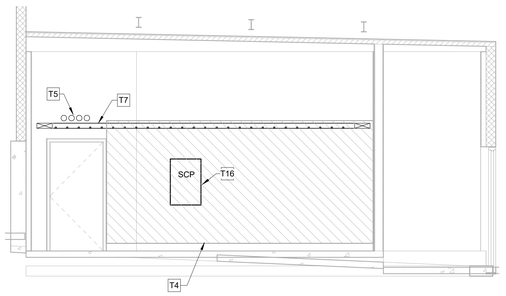
3 SERVER ROOM NORTH SECTION

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



7 SERVER ROOM CENTER SECTION

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



5 SERVER ROOM SOUTH SECTION

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

GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.

2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO DATA CENTER EQUIPMENT (PRODUCTS AND INSTALLATION) DESCRIBED IN KEYNOTES BELOW, SPECIFICALLY DIVSION 27.

3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL WALL SPACE REQUIREMENTS WITH OTHER LOW VOLTAGE TRADES (SECURITY, AV, FIRE ALARM, ETC.) DURING SHOP DRAWING COORDINATION PROCESS TO CONFIRM FINAL PLACEMENT OF ALL TERMINATIONS AND EQUIPMENT WITHIN DATA CENTER.

KEYNOTES

T1	RACK MOUNTED 50kVA 208/120 3-PHASE UPS UNIT DEDICATED FOR DATA CENTER POWER. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
T2	NETWORK SERVER RACK. TRIPP LITE SR42UBWD OR APPROVED EQUAL.
T3	FIBER RACK. COMMSCOPE 760243095 OR APPROVED EQUAL. FIBER OPTIC BACKBONE CROSS-CONNECT: PROVIDE RACK MOUNTED FIBER OPTIC TERMINATIONS (WITH ACCESSORIES) FOR TERMINATION OF FIBER BACKBONE CABLE.
T4	PLYWOOD BACKBOARD; PROVIDE 4' X 8' X 3/4" AC GRADE FIRE RETARDANT PLYWOOD BACKBOARD MOUNTED ON WALLS AT 6" AFF TO 102" AFF.
T5	BACKBONE CONDUIT SLEEVES: (4) 4" SMOKE PARTITION PATHWAYS. REFER TO TECHNOLOGY RACEWAY INFRASTRUCTURE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
T6	PRIMARY SERVICE: PRIMARY COMMUNICATIONS SERVICE PROVIDER CONDUITS (2) 4" WITH SMOKE PARTITION PATHWAYS. REFER TO TECHNOLOGY RACEWAY INFRASTRUCTURE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
T7	HORIZONTAL CABLE TRAY: PROVIDE 12-INCH LADDER RACK TYPE CABLE TRAY AROUND ROOM PERIMETER AND ABOVE EQUIPMENT RACKS. LADDER RACK SHALL BE MOUNTED AT 96" AFF AROUND ROOM PERIMETER (OFFSET 6" FROM WALL) AND ABOVE EQUIPMENT RACKS.
T8	TELECOM GROUNDING BUSBAR (TMGB): PROVIDE TELECOM GROUNDING BUSBAR FOR GROUNDING OF EQUIPMENT WITHIN MC-ROOM.
T9	CRAC UNIT: COMPUTER ROOM AIR CONDITIONING (CRAC) UNIT DEDICATED FOR DATA CENTER HVAC. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
T10	POWER DISTRIBUTION BUS: REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. STARLINE 50kVA BUS MOUNTED ABOVE THE RACKS WITH BUS PLUG RECEPTACLES.
T11	CLEAN AGENT FIRE SUPPRESSION SYSTEM FOR DATA CENTER. SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
T12	CLEAN AGENT FIRE SUPPRESSION SYSTEM CONTROL AND ANNUNCIATION PANEL(S) SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
T13	ELECTRICAL POWER OUTLETS: POWER OUTLETS PROVIDED BY OTHERS (SHOWN ON THE ELECTRICAL DRAWINGS). CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATIONS AND RECEPTACLE TYPES WITH ELECTRICAL CONTRACTOR, OWNER, AND ENGINEER DURING THE SHOP DRAWING COORDINATION PROCESS.
T14	EXISTING DAS PULL-BOX. NEW 4-INCH CONDUIT TO CABLE TRAY, WATERFALL CONDUIT TO TRAY.
T15	CAT 3 MAIN CROSS-CONNECT, 110-PUNCHDOWN PANELS.
T16	SECURITY CONTROL PANEL.
T17	IP SECURITY CAMERA. OWNER PROVIDED, CONTRACTOR INSTALLED.
T18	HID KEYPAD CARDREADER RPK-40, ACCESS CONTROLED DOOR.

Steamboat
ALTERRA MOUNTAIN COMPANY
east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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

Seal / Signature

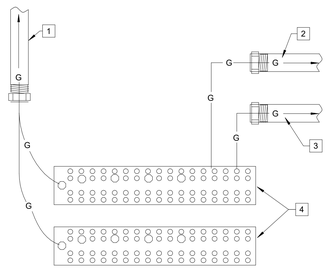
Project Name
Steamboat Base Village Redevelopment

Project Number
003.7835.000

Description
TECHNOLOGY ENLARGED PLANS

Scale
1/4" = 1'-0"

BP1B-T3.301

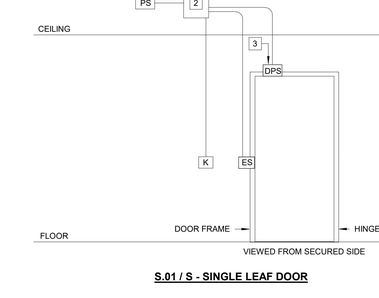


KEYNOTES: #

1. RISER-TBB: PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR VERTICALLY TO THE FURTHEST RISER TGB FROM TMGB. CABLE SHALL BE INSTALLED IN 1" (25mm) CONDUIT.
2. PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR BONDED TO NEAREST BUILDING STRUCTURAL STEEL. CABLE SHALL BE INSTALLED IN 1-INCH CONDUIT, IF ROUTED OUTSIDE OF ROOM.
3. PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR BONDED TO MAIN ELECTRICAL SERVICE GROUND BUS. CABLE SHALL BE INSTALLED IN 1" (25mm) CONDUIT.
4. TMGB: PROVIDE (2) 20" X 4" X 1/4" TINNED COPPER BUS ON ISOLATED STAND-OFF INSULATORS. GROUND BUS SHALL HAVE PRE-DRILLED HOLES FOR DUAL HOLE MOUNTING LUGS.

G.02 TELECOM GROUND BUSBAR (TMGB)

SYMBOLS: TMGB



GENERAL NOTES:

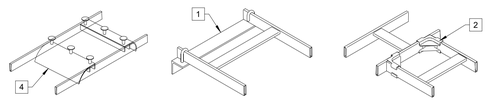
1. REFER TO BASIS OF DESIGN PRODUCT TO CONFIRM ADDITIONAL REQUIREMENTS SUCH AS QUANTITY, SIZE AND RATING OF UNI-STRUT, PULLING INSERTS, ETC.

KEYNOTES: #

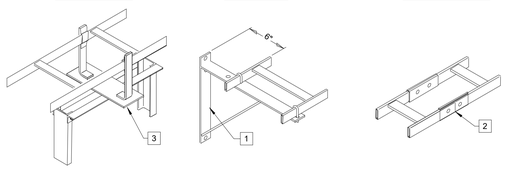
1. HAND-HOLE: PROVIDE 6'-0"L X 4'-0"W X 5'-0"D CONCRETE COMMUNICATIONS HAND-HOLE COMPLETE WITH PULLING INSERT AND HOLES TO ACCOMMODATE UP TO (4) 4-INCH CONDUITS AT EACH END.
2. COVER: PROVIDE TRAFFIC RATED COVER THAT INCLUDES "COMMUNICATIONS" LABEL ON COVER.
3. SUMP: HAND-HOLE TO INCLUDE 12" DIAMETER BY 4" DEEP SUMP RECESS.
4. STUB TEMP ABOVE GRADE HDPE INTO HANDHOLE FOR TEMP CABLING. FUTURE HDPE TO BE CUT AND CAPPED BELOW GRADE UPON REMOVEL OF TEMP CABLING.

U.02 COMMUNICATIONS HAND-HOLE DETAIL

SYMBOLS:



CABLE WATERFALL | WALL SUPPORT | JUNCTION-SPLICE KIT



RAISED MOUNT | SUPPORT BRACKET (TRIANGULAR) | BUTT-SPICE KIT

GENERAL NOTES:

1. PROVIDE ALL NECESSARY CABLE TRAY COMPONENTS AND ACCESSORIES PER SPECIFICATIONS AND MANUFACTURER REQUIREMENTS. REFER TO PLAN DRAWINGS AND WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE #6 AWG GROUNDING CONDUCTOR FROM LADDER RACK TO TGB IN ROOM. PROVIDE GROUNDING JUMPERS AS NECESSARY TO GROUND ALL SEGMENTS OF LADDER RACK.
3. REFER TO ENLARGED EQUIPMENT ROOM PLANS FOR LADDER RACK LAYOUTS.

KEYNOTES: #

1. WALL SUPPORT: PROVIDE TRIANGULAR WALL SUPPORT BRACKET AND/OR END WALL SUPPORT BRACKET AS REQUIRED.
2. JUNCTION SPLICE: PROVIDE JUNCTION-SPLICE AND/OR BUTT-SPLICE AS REQUIRED.
3. RACK SUPPORT: PROVIDE RAISED MOUNT TYPE SUPPORT BRACKET TO SECURE LADDER RACK TO EQUIPMENT RACK FOR ADDITIONAL RACK STABILITY.
4. WATER FALL: PROVIDE CENTER OR SIDE EXIT LADDER RACK WATER FALLS AT EACH EQUIPMENT RACK OR CABINET.

T.01 EQUIPMENT ROOM WIRE RUNWAY

SYMBOLS:

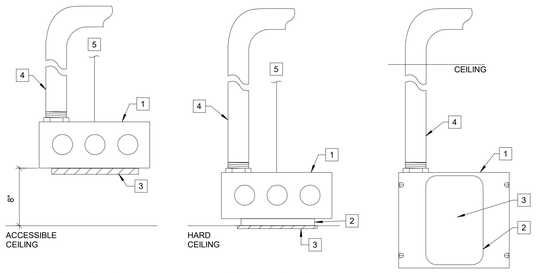
KEYNOTES: #

1. PATHWAY TO SECURITY PANEL LOCATIONS: PROVIDE (1) 1-1/4" CONDUIT REFER TO SECURITY SYSTEM SYMBOL - PATHWAY REQUIREMENT NOTES ON LEGEND SHEET FOR CONDUIT CONTINUATION REQUIREMENTS.
2. CONSOLIDATION BOX: LOCATE 8"x8"x4" BOX ON SECURE SIDE OF DOOR. LOCATE WITHIN ACCESSIBLE CEILING SPACE (OR AREA OF ACCESS) AS CLOSE TO DOORWAY AS POSSIBLE, NOT TO EXCEED 50 FEET OF DOOR LOCATION.
3. PATHWAY TO DOOR HARDWARE: PROVIDE 3/4" CONDUIT ROUTED FROM CONSOLIDATION BOX TO HARDWARE MOUNTED IN OR AROUND DOOR FRAME. COORDINATE CONDUIT TERMINATION REQUIREMENTS WITH DOOR HARDWARE PROVIDER AND DEVICE MANUFACTURER. ROUTE CONDUIT WITHIN DOOR FRAME WHERE REQUIRED.

S.01 / S - SINGLE LEAF DOOR

S.03 SECURITY ACCESS CONTROL SYSTEM DETAILS

SYMBOLS:



ABOVE CEILING MOUNTED | FLUSH CEILING MOUNTED | WALL MOUNTED

GENERAL NOTES:

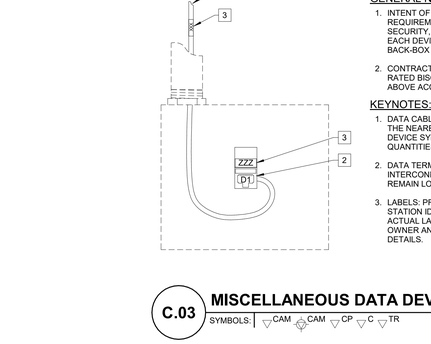
1. REFER TO SYSTEM SYMBOL LEGEND - PATHWAY REQUIREMENT NOTES TO CONFIRM IF CONDUIT STUBS TO CEILING AND USE OF J-HOOKS IS ALLOWED OR IF CONTINUOUS CONDUIT IS REQUIRED FOR ALL LOCATIONS. PARTICULAR ATTENTION SHALL BE GIVEN TO CONDUIT ROUTING NOTES AS EACH SYSTEM (AV, COMM, SECURITY, ETC.) HAS SPECIFIC CONDUIT ROUTING REQUIREMENTS.

KEYNOTES: #

1. BACK-BOX: PROVIDE 4"X4"X2-1/8" FLUSH MOUNTED BOX.
2. MUD-RING: PROVIDE 1-GANG MUD RING FOR MOUNTING OF DEVICE / FACEPLATE. MUD RING SHALL BE SEPARATE COMPONENT FROM BACK-BOX.
3. FACE PLATE: REQUIREMENTS VARY, REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL INFORMATION.
4. CONDUIT: PROVIDE CONDUIT SIZED AS FOLLOWS:
   (1) 1-INCH CONDUIT FOR (1-4) CABLES/PORTS
   (1) 1-1/4-INCH CONDUIT FOR (5-6) CABLES/PORT
5. SUPPORT: PROVIDE THREADED ROD ATTACHED TO STRUCTURE ABOVE.

R.01 COMM RACEWAY DEVICES

SYMBOLS: X X



GENERAL NOTES:

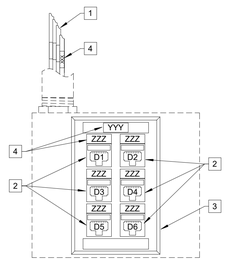
1. REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR ADDITIONAL INFORMATION.

KEYNOTES: #

1. EQUIPMENT RACK: SHOWN FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS FOR REQUIREMENTS.
2. CONDUIT: PROVIDE CONDUIT FROM RACK LOCATION TO NEAREST CABLE TRAY OR COMM ROOM. REFER TO PLAN DRAWINGS FOR ADDITIONAL REQUIREMENTS.
3. FIBER OPTIC CABLE: PROVIDE MMFO / SMFO STRANDS WHERE "MM" = MMFO STRAND COUNT AND "SM" = SMFO STRAND COUNT. (EX. 12/24 = 12-MMFO + 24-SMFO). ALL FIBER OPTIC CABLE SHALL ORIGINATE FROM FIBER OPTIC MAIN CROSS-CONNECT.
4. CABLE PROTECTION: PROVIDE (1) 1" PLENUM RATED/UL-LISTED FIBER OPTIC INNER-DUCT (OR ARMORED FIBER OPTIC CABLE).
5. FIBER OPTIC TERMINATIONS: PROVIDE LC-TYPE TERMINALS MOUNTED IN (1) 24-PORT MODULAR PATCH PANEL WITH FIBER CABLE ORGANIZER.
6. FIBER OPTIC CABLE SPOOL: PROVIDE FIBER OPTIC CABLE SPOOL(S).
7. LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX). REFER TO TYPICAL DEVICE LABELING DETAIL FOR ADDITIONAL REQUIREMENTS.

C.11 FIBER OPTIC RACK MOUNT PATCH PANEL

SYMBOLS: #/#



GENERAL NOTES:

1. REFER TO DETAIL R.01 FOR RACEWAY REQUIREMENTS INCLUDING BACK-BOX AND CONDUIT.
2. PROVIDE MODULAR DUST COVER(S) ON ALL UNUSED FACEPLATE PORTS AS REQUIRED.

KEYNOTES: #

1. DATA CABLE: PROVIDE 4-PAIR UTP CABLE(S) ORIGINATING FROM THE NEAREST HORIZONTAL CROSS-CONNECT (HC). REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR CABLE QUANTITIES.
2. DATA TERMINATIONS: PROVIDE RJ45 TYPE MODULAR JACK INTERCONNECTED TO EACH UTP CABLE. PROVIDE COLORED PORTS ACCORDING TO THE COLOR SCHEDULE ON THE LEGEND SHEET.
3. FACE PLATE: PROVIDE MODULAR FACEPLATE WITH PORTS AS REQUIRED PER CABLE COUNTS.
4. LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX). REFER TO TYPICAL DEVICE LABELING DETAIL FOR ADDITIONAL REQUIREMENTS.

C.02 VOICE/DATA DEVICE (5 OR 6 PORTS)

SYMBOLS: # # ATM/# POS/# P AV

GENERAL NOTES:

1. INTENT OF THIS DETAIL IS TO DEPICT STRUCTURED CABLING REQUIREMENTS. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS.
2. CONTRACTOR TO PROVIDE DATA OUTLET(S) MOUNTED IN PLENUM RATED BISCUIT IN LIEU OF BACK-BOX FOR DEVICES LOCATED ABOVE ACCESSIBLE CEILINGS.

KEYNOTES: #

1. DATA CABLE: PROVIDE 4-PAIR UTP CABLE(S) ORIGINATING FROM THE NEAREST HORIZONTAL CROSS-CONNECT (HC). REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR CABLE QUANTITIES.
2. DATA TERMINATIONS: PROVIDE RJ45 TYPE MODULAR JACK INTERCONNECTED TO EACH UTP CABLE. CABLE AND JACK SHALL REMAIN LOOSE INSIDE BACK-BOX.
3. LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX) ACTUAL LABELING SCHEME SHALL BE COORDINATED WITH THE OWNER AND ENGINEER. REFER TO COMMUNICATION AND CABLE DETAILS.

C.03 MISCELLANEOUS DATA DEVICE

SYMBOLS: CAM CAM CP C TR

Steamboat

ALTERRA MOUNTAIN COMPANY east west partners

[SET PROJECT ADDRESS PARAMETER & ENERGY SETTINGS IF APPLICABLE]

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823

LANDMARK CONSULTANTS, INC.
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
2021/02/05	BP1B - IT ROOM PERMIT & BID PACKAGE

Seal / Signature

Project Name

Steamboat Base Village Redevelopment

Project Number

003.7835.000

Description

TECHNOLOGY DETAILS

Scale

1/8" = 1'-0"

BP1B-T8.000