Bulletin Number - BP3 Goldwalk - 04

Gensler

Project	Steamboat Base Village Redevelopment	**Date**	07/15/2021
Project Location	Steamboat, Colorado	**Architect's Project Number**	03.7835.000
Owner/Client	Alterra Mountain Company / East West Partners	**File** 6BL	**This is page** 1 of 2
To	Saunders Construction Inc.	**Attention**	Bryan Sculthorpe
Address	86 Inverness Place North		
City	Englewood	**State** CO	**Zip Code** 80112

Delivered via:

☐ **Messenger**	☐ **Hand carried**	☐ **Facsimile**
☐ **Express**	☐ **Pick-up**	☐ **E-mail Address**
☐ **Mail**	☐ **UPS**	☒ **Website Address** BIM360

This Bulletin Conveys to Contractor (Check one of the following five choices.):

☐ **Architect's Authorization for Minor Changes**
Architect recommends modifications to the Work as described below.

☐ **Architect's Clarification / Supplemental Instructions** (Use this Bulletin form in place of *Architect's Supplemental Instructions* form.)
Contractor shall carry out the Work in accordance with the following supplemental instructions.

☐ **Architect's Confirmation of a Field Order** (Use this Bulletin form in place of a *Field Order* form.)
This confirms Architect's verbal instructions to (individual's name) _____ on (date) _____, as described below.
Note: The above three choices are each subject to the following terms: The change(s), clarification(s) and/or confirmation(s) described below is/are issued in accordance with the Contract Documents, without change in Contract Sum and/or Time.

☒ **Architect's Request for Contractor's Proposal** (Use this Bulletin form in place of an *Estimate Request* form.)
Please submit an itemized proposal for changes in the Contract Sum and/or Time for proposed modifications to the Contract Documents described herein. Submit proposal **within** _____ **days** or notify the Architect in writing of the date on which you anticipate submitting your proposal. This is not a Change Order or a Construction Change Directive or a direction to proceed with the Work described in the proposed modifications.

☐ **Other:** As described below.

Attachments BP3 GOLDWALK - BULLETIN 04 (MICROPILES)

Requested by
☐ Architect ☐ Owner ☒ Contractor ☐ Other (specify): _____

Issued by Gensler by Jacob Apple **Date Signed** 07/15/2021

Issued by Owner by **Date Signed**
☐ Required; Please return signed copy to Gensler ☐ Not Required

Accepted by Contractor by **Date Signed**
☐ Required; Please return signed copy to Gensler ☐ Not Required

Distribution
Bryan Sculthorpe
Greg Morgan
Adam Cleveland
Ryan Stone
Mike Schmidt
John Albright
Gregg Riker

Prepared by Gensler by Jacob Apple **Date Signed** 07/15/2021

Instructions / Description / References / Dates

1225 17th Street
Suite 150
Denver CO 80202
Tel: +1 303.595.8585
Fax: +1 303.825.6823

Description of Changes:
General: This bulletin addresses revising foundations to a micropile design at the escalator.

Structural Drawing Changes:

1. 1B-S0.01
    a. Micropiles are added to the 'deferred submittals'.
2. 1B-S0.02
    a. Micropiles are defined in the 'Foundation Notes'.
3. 1B-S0.10
    a. Micropile special inspections are added.
4. 1B-S1.01
    a. Plan 1:
        i. Micropile locations are added.
        ii. Bottom of wall elevations are revised.
        iii. New foundation to existing wall details are clarified.
    b. Elevation 3:
        i. Bottom of foundation elements are revised.
5. 1B-S2.00
    a. Cross section 2:
        i. Bottom of foundation elements are revised.
    b. Cross section 3:
        i. Bottom of foundation elements are revised.
6. 1B-S3.01:
    a. Detail 4:
        i. Bottom of foundation is revised for micropiles.
    b. Detail 9:
        i. Bottom of foundation is revised for micropiles.
    c. Detail 10:
        i. Bottom of foundation is revised for micropiles.
    d. Detail 11:
        i. Bottom of foundation is revised for micropiles.
    e. Detail 16:
        i. Bottom of foundation is revised for micropiles.
    f. Detail 17:
        i. Bottom of foundation is revised for micropiles.
    g. Detail 19:
        i. Pilaster geometry is revised and the pile cap is added for micropiles.
    h. Detail 20:
        i. Bottom of foundation is revised for micropiles.
7. 1B-S3.02
    a. Detail 7:
        i. Bottom of foundation is revised for micropiles.
    b. Detail 12:
        i. Detail is added.
    c. Detail 13:
        i. Detail is added.
    d. Detail 16:
        i. Detail is added.
    e. Detail 18:
        i. Detail is added.
    f. Detail 20:
        i. Detail is added.

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
-	GRID LINES
X / XX	SECTION OR DETAIL CUT
	SHEET NUMBER
X	ELEVATION CUT
XX	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
	SERVICE LOAD PROVIDED FOR SPECIALTY DESIGNER
	STEP
	SLOPE
1	KEY NOTE
	SUBGRADE
	FORM SAVER

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

SYMBOL	DESCRIPTION
SOGXXA	SLAB TYPE SLAB THICKNESS TYPE
F1	FTG MARK (SF = STRIP FTG)
XX'-X"	T/FTG EL
CXX	COLUMN SIZE OR MARK

SYMBOL	DESCRIPTION
STEEL BEAM	SHEAR STUD QUANTITY
XXk — BEAM SIZE [XX] c=X" — XXk (XXX'-XX")	ULTIMATE BM REACTION USING LRFD LOAD COMBINATIONS (KIPS); CAMBER (INCHES); EL OF T/STEEL
	FULL HEIGHT SHEAR CONNECTION, SEE 1B-S5.02
2E3.25A / XXX'-XX"	DECK TYPE ABOVE DECK CONCRETE THICKNESS TYPE DECK SPAN DIRECTION T/SLAB AT SLAB-ON-DECK

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 BM	Grade Beam
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	
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	
mm	Millimeter
MNFR	Manufacturer
MO	Masonry Opening
MTL	Metal
N	North
N-S	North-South
NIC	Not in Contract
NM	
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

1) 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:
- EXCAVATION SHORING
- MICROPILES (1)
- METAL STAIRS
- ARCHITECTURAL/METAL CLADDING PANEL
- LIGHT GAGE METAL STUDS
- METAL RAILINGS
- ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS.
- PERMANENT EARTH SHORING SYSTEMS

1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE SHALL BE 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.

1E) GC / METAL STUD FRAMING DESIGNER / CLADDING DESIGNER COORDINATION:
- METAL STUD FRAMING AND FRAMING ATTACHMENT IS DESIGNED FOR THE TRIBUTARY WIND AND GRAVITY LOAD OF THE STUD SPACING. CLADDING SUPPLIER TO DESIGN CLADDING TO ATTACH AT EACH STUD. CLADDING ATTACHMENT SPACING WHICH EXCEEDS THE STUD SPACING IS NOT ACCEPTABLE WITHOUT APPROVAL FROM THE METAL STUD SUPPLIER/DESIGNER AND THE PROJECT EOR.
- IF THE CLADDING SUPPLIER DOES NOT WANT OR CANNOT ATTACH TO EACH STUD THE LOADS FROM THE CLADDING SUPPLIER MUST BE PROVIDED TO THE METAL STUD FRAMING SUPPLIER. THE METAL STUD FRAMING SUPPLIER WILL NEED TO INCORPORATE THESE LOADS INTO THE METAL STUD FRAMING DESIGN.
- GC TO COORDINATE BETWEEN METAL STUD FRAMING SUPPLIER AND CLADDING SUPPLIER AS REQUIRED.

1F) FLOOR FRAMING AND EDGE ANGLE ARE DESIGNED TO SUPPORT ONE LEVEL OF CURTAIN WALL OR METAL STUD WALL FRAMING. SUPPORTING MULTIPLE LEVELS OF CURTAIN WALL OR METAL STUD WALL FROM ONE FLOOR LEVEL IS NOT PERMITTED.

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.

DESIGN CRITERIA

1) CODES AND STANDARDS:

1A) GENERAL DESIGN
- INTERNATIONAL BUILDING CODE 2018

2) SEISMIC LOADS
- SEISMIC DESIGN CATEGORY = C
- RISK CATEGORY = II
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.00
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.333
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.133
- SOIL SITE CLASS = C
- BASIC STRUCTURAL SYSTEM: STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- STRUCTURAL SEISMIC LATERAL SYSTEM: STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- RESPONSE MODIFICATION FACTOR, R = 3
- SEISMIC RESPONSE COEFFICIENT, Cs = 0.111
- SYSTEM OVERSTRENGTH FACTOR, OMEGA = 3
- SEISMIC RESISTING SYSTEM NOT CONSIDERED FOR ANCILLARY STRUCTURE ADDITION IN LEVEL B1 AND NEW SLAB REPLACEMENT AT LEVEL 1.
- ESCALATOR CANOPY STRUCTURE:
  DESIGN BASE SHEAR EAST-WEST DIRECTION = 30 K
  DESIGN BASE SHEAR NORTH-SOUTH DIRECTION = 30 K
- SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL-FORCE ANALYSIS

3) WIND LOADS
- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 115 MPH
- BASIC NOMINAL WIND SPEED, Vasd = 89.1 MPH
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.18
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.0 FOR CANOPY
- TOPOGRAPHIC ALTITUDE ADJUSTMENT, Ke = 0.78

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

- ROOF PRESSURES

ROOF AREA	10 SF	100 SF	500 SF
ROOF INTERIOR NEG (ZONE 1)	-46.2	-35	-54.4
- USE THESE FOR JOIST UPLIFT WIND DESIGN FORCES UNO			
ROOF INTERIOR NEG (ZONE 1')	-24.5	-24.5	-16.0
ROOF NEGATIVE (ZONE 2)	-62.6	-48.2	-76.2
- EAVES, RAKES, RIDGES			
ROOF CORNERS NEG (ZONE 3)	-62.6	-48.2	-76.2
ROOF POSITIVE ALL ZONES	-16	-16	-16.0
ROOF NEGATIVE OVERHANG ZONE 1 & 1'	-46.2	-43.5	-54.4
ROOF NEGATIVE OVERHANG ZONE 2	-62.6	-43.4	-59.8
ROOF NEGATIVE OVERHANG ZONE 3'	-62.6	-43.4	-59.8

- PARAPET PRESSURES

PARAPET QP = 27.2 psf

SOLID PARAPET PRESSURE	10 SF	100 SF	500 SF
PARAPET CASE A: ZONE 2:	87.0	68.6	54.4
ZONE 3:	87.0	68.6	54.4
PARAPET CASE B: INTERIOR ZONE:	-49.0	-42.2	-35.4
CORNER ZONE:	-73.4	-58.5	-43.5

PARAPET CASE A = PRESSURE TOWARDS BUILDING (POS)
PARAPET CASE B = PRESSURE AWAY FROM BLDG (NEG)
PARAPET CAP UPLIFT PRESSURES
ZONE 2: -68.0 PSF
ZONE 3: -68.0 PSF

5) LATERAL LOAD RESISTING SYSTEM DESCRIPTION:
- SEISMIC RESISTING SYSTEM NOT CONSIDERED FOR ANCILLARY STRUCTURE ADDITION IN LEVEL B1 AND NEW SLAB REPLACEMENT AT LEVEL 1.
- ESCALATOR CANOPY STRUCTURE - ROOF HSS FRAME AS DIAPHRAGM AND WOOD GLULAM COLUMN, HSS BEAM, AND ROD BRACE AS LATERAL FRAMES IN SHORT DIRECTION, WOOD GLULAM COLUMN MOMENT FRAMES IN LONG DIRECTION.

6) GRAVITY LOADS

6A) SEE LOAD KEY ON SHEET 1B-S0.02 FOR SUPERIMPOSED DEAD LOAD AND LIVE LOADS USED IN DESIGN.

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 = 1.20 (ESCALATOR CANOPY)
- UNIFORM ROOF SNOW LOAD = 110.9 PSF
- FLAT ROOF SNOW LOAD = 110.9 PSF

7) RAIN LOADS:

7A) DESIGN RAIN INTENSITY = 2.5 INCHES PER HOUR

7B) DESIGN RAIN ROOF PRESSURE = 21 PSF

STRUCTURAL DRAWING LIST

SHEET NUMBER	SHEET TITLE
1B-S0.01	NOTES
1B-S0.02	NOTES
1B-S0.03	NOTES
1B-S0.10	QUALITY ASSURANCE
1B-S0.11	QUALITY ASSURANCE
1B-S1.01	GOLDWALK - LEVEL 1 FRAMING PLAN
1B-S1.02	GOLDWALK - LEVEL 2 FRAMING PLAN
1B-S1.03	GOLDWALK - LEVEL 3 FRAMING PLAN
1B-S1.04	GOLDWALK - CANOPY ROOF FRAMING PLAN
1B-S1.05	GOLDWALK CANOPY DETAILS
1B-S2.00	GOLDWALK CROSS SECTIONS
1B-S3.00	TYPICAL CONCRETE DETAILS
1B-S3.01	FOUNDATION DETAILS
1B-S3.02	CONCRETE DETAILS
1B-S3.10	TYPICAL SOG DETAILS
1B-S3.50	CONCRETE SUPPORTING STEEL DETAILS
1B-S4.00	MASONRY DETAILS
1B-S5.00	TYP STEEL BEAM CONNS - LRFD
1B-S5.01	TYP STEEL BEAM CONNS - LRFD
1B-S5.02	STEEL DETAILS
1B-S5.03	STEEL DETAILS
1B-S5.31	TYPICAL SLAB ON METAL DECK DETAILS
1B-S5.60	PERFORMANCE SPECIFIED FRAMING

Steamboat
ALTERRA MOUNTAIN COMPANY
east west partners
2305 Mount Werner Circle
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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

July 15, 2021

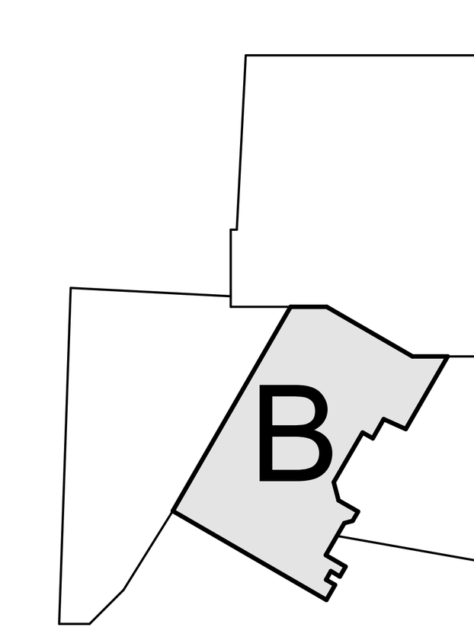
Seal / Signature

Δ	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1	2021.07.14	BP3: GOLDWALK - BULLETIN 04

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
NOTES

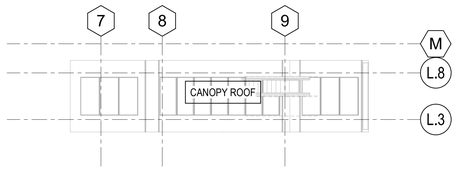


Scale
12" = 1'-0"

1B-S0.01

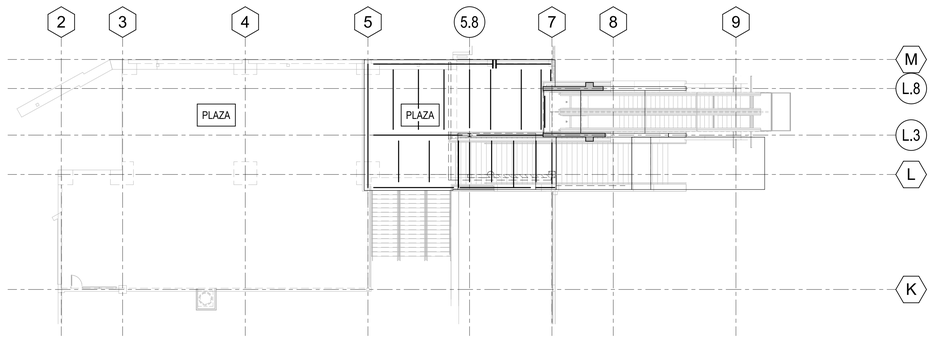
DESIGNERS: NIC MARTIN
LEAD MODEL TECH: COLIN KNOWLES
DATE PRINTED: 7/15/2021 11:06:17 AM
FILE PATH: BIM 360://003.7835.000 - Steamboat Redev/03.7835.000_Structural_SSR_GSQ 2021_V2021.rvt
MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
EOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

GRAVITY LOADS					
LOCATION	SUPERIMPOSED DEAD LOAD...	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	POINT LOAD (LB)	NOTES
PLAZA	63 PSF PAVER SYSTEM + 10 PSF CLMEP 73 PSF TOTAL	100	NO	4,000 LBS PER 1971 ORIGINAL DRAWING	--
CANOPY ROOF	10 PSF	20 PSF ROOF	NO	--	SEE ROOF SNOW



ESCALATOR ROOF LOADING PLAN

1/16" = 1'-0"



GOLDWALK LOADING PLAN

1/16" = 1'-0"

FOUNDATION NOTES

1) DESIGN CRITERIA:
THE GEOTECHNICAL REPORT PREPARED BY NORTHWEST COLORADO CONSULTANTS, INC., NUMBER 20-12000, DATED APRIL 22, 2021 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE PROJECT.

2) FOOTINGS:
2A) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE = 3000 PSF
- MINIMUM CONTINUOUS FOOTING WIDTH = 1 FT
- MINIMUM SPREAD FOOTING WIDTH = 1 FT
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4
- FROST DEPTH TO BOTTOM OF FOUNDATION = 48 IN

3) FOUNDATION 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 = 250 PSF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4

3B) WALL DESIGN BASED ON IN-SITU SOILS ADJACENT TO FOUNDATION WALLS. SEE EARTHWORK SPECIFICATION FOR REQUIREMENTS.

4) SITE RETAINING WALLS:
4A) 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

4B) WALL DESIGN BASED ON IN-SITU SOILS ADJACENT TO SITE RETAINING WALLS. SEE EARTHWORK SPECIFICATION FOR REQUIREMENTS.

5) MICROPILES:
5A) MICROPILE CAPACITY CRITERIA:
- COMPRESSION CAPACITY = 54K (SERVICE, MINIMUM) FOR VERTICAL AND BATTERED PILES
- UPLIFT CAPACITY = 0K (SERVICE)

5B) MICROPILE MATERIALS:
- THREADED ROD, BY CONTRACTOR
- GROUT, BY CONTRACTOR

5C) MICROPILES ARE A PERFORMANCE SPECIFIED ITEM TO BE DESIGNED BY THE CONTRACTOR.

5D) BEDROCK ELEVATIONS
- SEE GEOTECHNICAL REPORT.

5E) MICROPILE TESTING
- SEE MICROPILE TESTING TABLE AND MICROPILE SUPPLIER FOR ADDITIONAL INFORMATION.

1

WOOD NOTES

1. GLUED LAMINATED MEMBERS:
1A) COMBINATION SYMBOL:
- SINGLE SPAN: 24F-V4
- MULTI- SPAN: 24F-V8

1B) MINIMUM DESIGN VALUES ARE BASED ON THE 2018 NDS.

2) METAL CONNECTORS:
2A) FRAMING CONNECTORS SHALL CONFORM TO IBC 2018 SECTION 2303.5. SEE DETAILS FOR REQUIREMENTS.

2B) ALL CONNECTOR HOLES SHALL BE FILLED WITH PROPER NAILS/BOLTS INCLUDING OPTIONAL NAIL LOCATIONS FOR UPLIFT. ALL BOLT HOLES SHALL BE DRILLED INTO FRAMING MEMBERS. MAXIMUM HOLE DIAMETER IS 1/16" LARGER THAN THE BOLT DIAMETER.

3) OPENINGS:
3A) OPENING, POCKETS, ETC., SHALL NOT BE PLACED UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.

MASS TIMBER MATERIAL TABLE

WOOD ELEMENT	SPECIES/ GRADE	Fb TOP/BOT (PSI)	Fv (PSI)	E (PSI)	REMARKS
GLULAMS - SINGLE SPAN	24F-V4	1850/2400	265	1,800,000	-
GLULAMS - MULTI-SPAN/COLS	24F-V4	2400/2400	265	1,800,000	SEE NOTE 2

NOTES:

1. PROPERTIES LISTED SHALL BE MET OR EXCEEDED.

2. MULTI-SPAN CONDITIONS INCLUDE GLULAM MEMBERS WITH CANTILEVERS.

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, BRACING, 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.

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July 15, 2021

Seal / Signature

Date	Description
- 2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1 2021.07.14	BP3: GOLDWALK - BULLETIN 04

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
NOTES

Scale
As indicated

1B-S0.02

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MOWLES
DATE PRINTED:7/15/2021 11:06:17 AM
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MM JOB #: 20.1411.5.01
PRINCIPAL:KELLY KNOWLES
FOR:KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

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

STRUCTURAL CONCRETE TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL, BOLTS AND EMBEDMENTS			
- WELDING	-	-	PER STRUCTURAL STEEL TESTING
CONCRETE			
- COMPOSITE SAMPLE		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
1. f'c < 5000 PSI	100 CY/MIX/DAY		
2. f'c ≥ 5000 PSI AND SHOTCRETE	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
- UNIT WEIGHT FOR STRUCTURAL LIGHTWEIGHT	EACH COMPOSITE SAMPLE	ASTM C138	-
- 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
SHOTCRETE (ADDITIONAL REQUIREMENTS)			
- COMPRESSIVE	-	IBC 2018 - 1908.10	-
- CURING	-	IBC 2018 - 1908.9	-
FLOOR FLATNESS REQUIREMENTS			
- MEASURE CONCRETE FLOOR FLATNESS (FF) AND FLOOR LEVELNESS (FL)	-	ASTM E1155	PERFORM MEASUREMENTS WITHIN 48 HOURS OF FINISHING OPERATIONS AND PRIOR TO REMOVAL OF SHORES OR FORMS. MEASURE AREAS INDICATED IN THE SPECIFICATIONS

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.

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	-
- MECHANICAL CONNECTORS	C	ICC-ES REPORT	-
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

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 INCLUDING STAIRS AND RAILING ELEMENTS
   - SHOP FABRICATED STEEL CONNECTIONS FOR STRUCTURAL WOOD CONNECTIONS

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.

△1

DRILLED MICROPILE FOUNDATIONS SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
VERIFICATION & PROOF TESTING			
- OBSERVE TESTING	C	-	DETERMINE CAPACITIES OF TEST ELEMENTS
DURING DRILLING			
- DRILLING OPERATIONS	C	-	PROVIDE REPORT FOR EACH MICROPILE
- SHAFT PLACEMENT	C	-	VERIFY LOCATION, PLUMBNESS, AND DIAMETER
- BEARING MATERIAL	C	PRE-CONSTRUCTION TESTING	VERIFY BEARING MATERIAL IS EQUIVALENT TO THAT USED IN PRECONSTRUCTION TESTING
- DEPTH OF PENETRATION	C	-	VERIFY DEPTH OF PENETRATION INTO BEARING MATERIAL AND OVERALL LENGTH
- CONCRETE/GROUT AND REINFORCING STEEL	-	-	PER MICROPILE SUBCONTRACTOR.

DRILLED MICROPILE FOUNDATIONS SPECIAL INSPECTION NOTES:

1. SEE DEFERRED MICROPILE SUBCONTRACTOR SPECIFICATIONS FOR REQUIREMENTS OF PRECONSTRUCTION LOAD TESTS TO BE PERFORMED BY THE SUBCONTRACTOR.

Steamboat
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COLORADO REGISTERED PROFESSIONAL ENGINEER KELLY G. KNOWLES 38107
July 15, 2021

Seal / Signature

△	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1	2021.07.14	BP3: GOLDWALK - BULLETIN 04

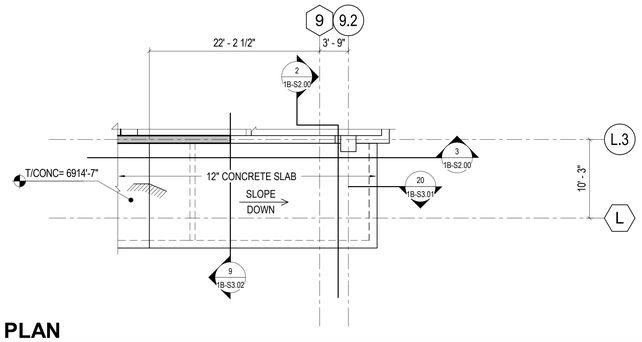
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
QUALITY ASSURANCE

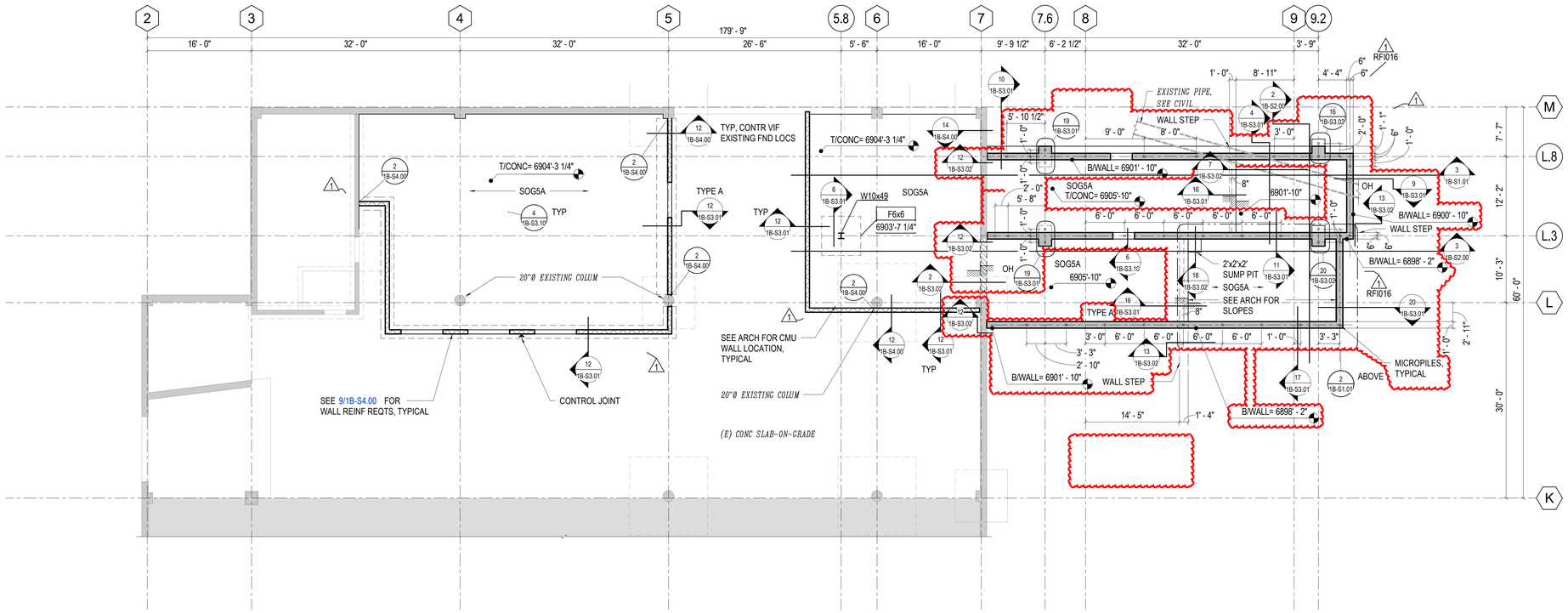
Scale
12" = 1'-0"

1B-S0.10



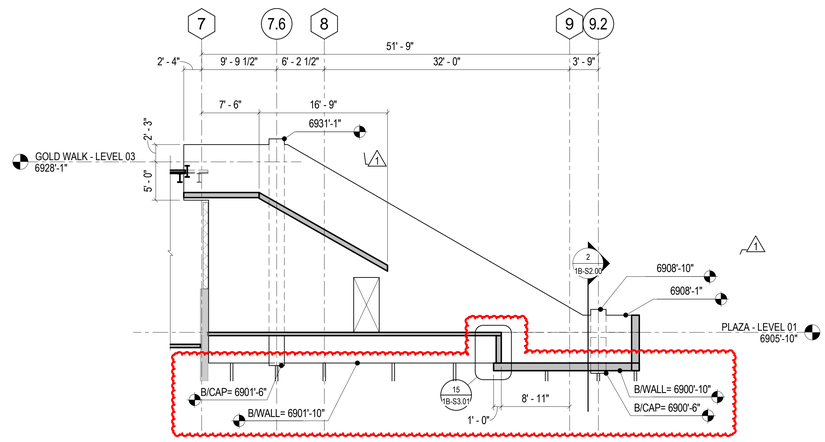
2 PARTIAL STAIR FRAMING PLAN

1/8" = 1'-0"



1 PLAZA PARTIAL FRAMING PLAN

1/8" = 1'-0"



3 ESCALATOR PIT SECTION

1/8" = 1'-0"

PLAN NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITION PRIOR TO STEEL FABRICATION.

2. CONTRACTOR TO FIELD LOCATE ALL UTILITIES BELOW GRADE. CONTRACTOR SHALL NOTIFY ARCHITECT BY DIMENSIONED DRAWING OF LOCATIONS WHERE UTILITIES CONFLICT WITH FOUNDATION INSTALLATION. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES PRIOR TO PROCEEDING WITH EFFECTED FOUNDATIONS.

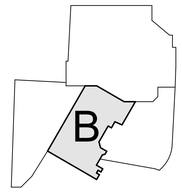
3. SEE ARCH AND MECH DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FILL, PADS, AND CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

4. SEE 1B-S4.00 FOR TYPICAL MASONRY WALL DETAILS. SEE ARITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

LEGEND

OUT OF SCOPE

KEY PLAN



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COLORADO REGISTERED PROFESSIONAL ENGINEER 38107

July 15, 2021

Seal / Signature

	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1	2021.06.25	BP3: GOLDWALK - BULLETIN 02
2	2021.07.14	BP3: GOLDWALK - BULLETIN 04

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

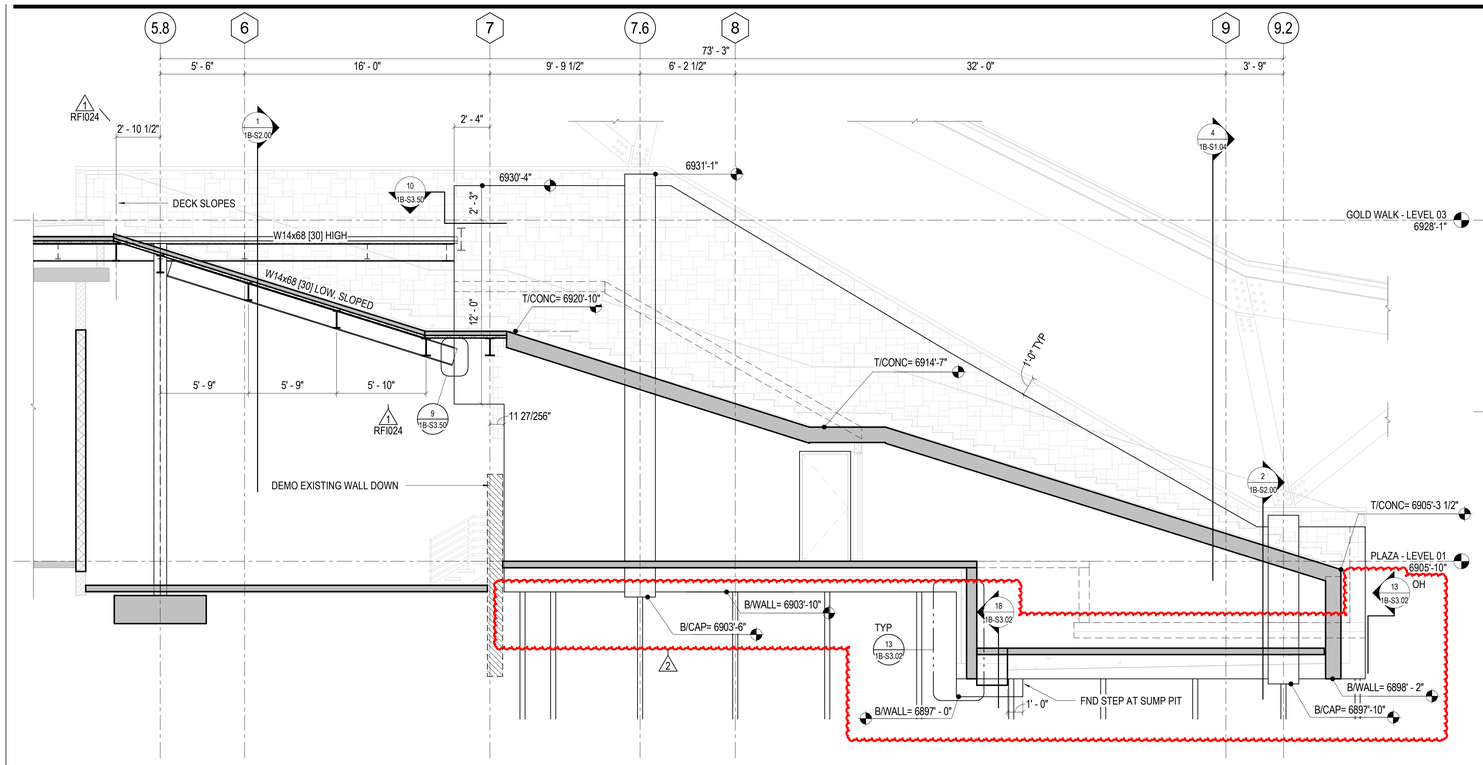
Description
GOLDWALK - LEVEL 1 FRAMING PLAN

Scale
As indicated
Ref North

1B-S1.01

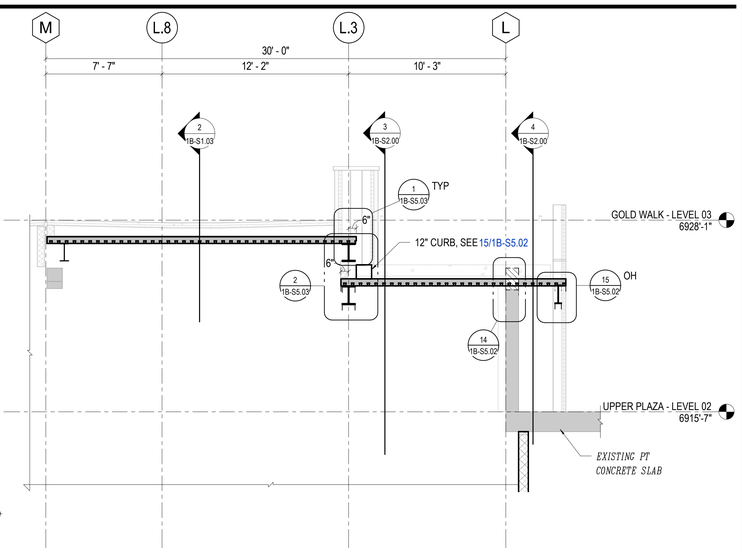
MM JOB # 20.1411.5.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 7/15/2021 11:06:22 AM
FILE PATH: I:\BIM 360\003.7835.000 - Steamboat Redev\03.7835.000_Structural_SSRC_GSG 2021_V2021.rvt



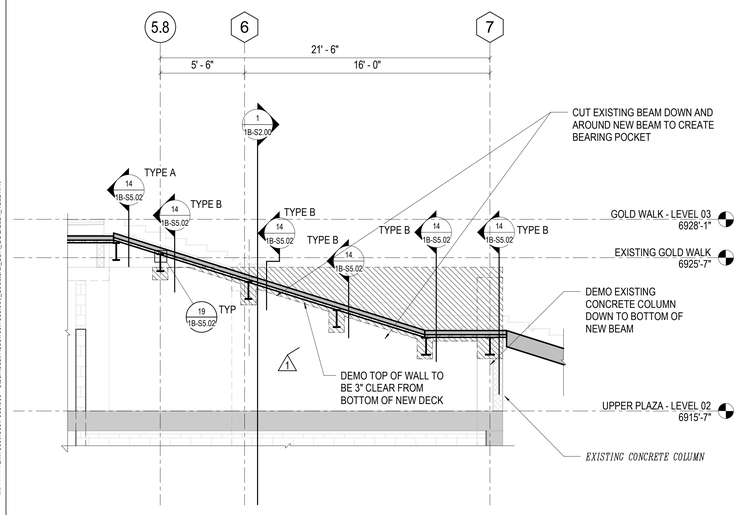
3 CROSS SECTION ALONG GRID L.3

1/4" = 1'-0"



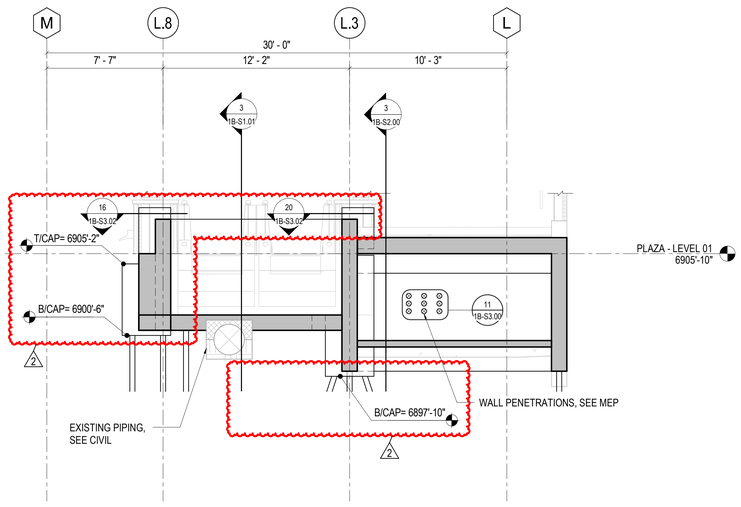
1 CROSS SECTION ALONG GRID 6

1/4" = 1'-0"



4 CROSS SECTION ALONG GRID L

1/4" = 1'-0"



2 CROSS SECTION ALONG GRID 6

1/4" = 1'-0"

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COLORADO REGISTERED PROFESSIONAL ENGINEER 38167
July 15, 2021

Seal / Signature

Date	Description
- 2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1 2021.06.25	BP3: GOLDWALK - BULLETIN 02
2 2021.07.14	BP3: GOLDWALK - BULLETIN 04

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

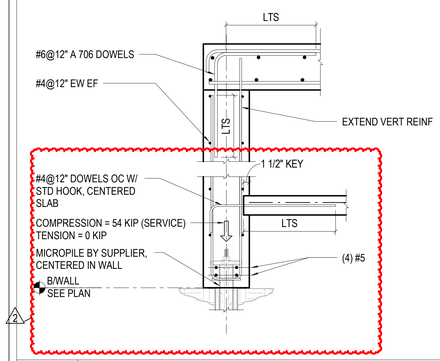
Description
GOLDWALK CROSS SECTIONS

Scale
1/4" = 1'-0"

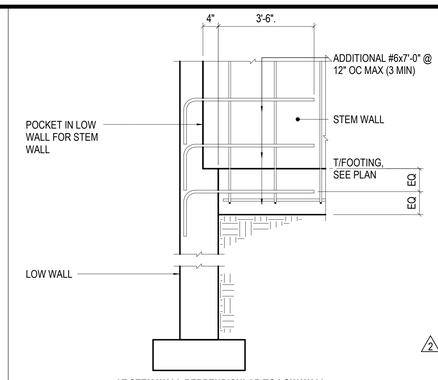
1B-S2.00

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 7/15/2021 11:06:26 AM
FILE PATH: I:\BIM 360\003.7835.000 - Steamboat Redev\03.7835.000_Structural_SSRC_GSD 2021_V2021.rvt

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

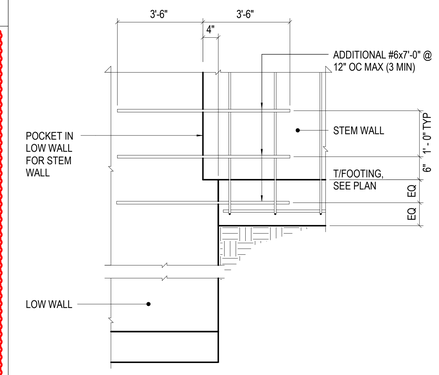


17 3/4" = 1'-0" STAIR EDGE WALL



AT STEM WALL PERPENDICULAR TO LOW WALL

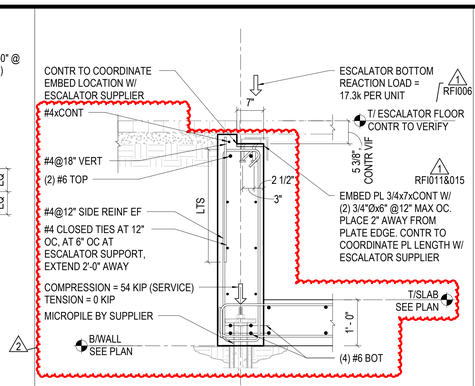
NOTES:
1. WALL HORIZONTAL & VERTICAL MAT REINFORCING NOT SHOWN



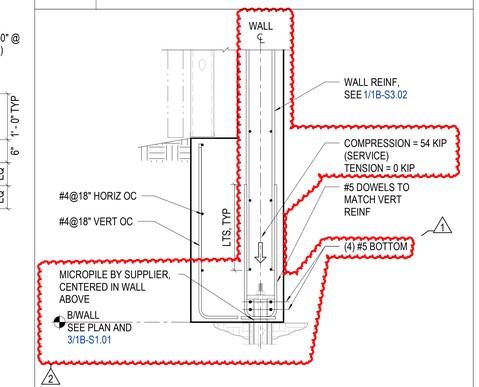
AT STEM WALL PARALLEL TO LOW WALL

NOTES:
1. WALL HORIZONTAL & VERTICAL MAT REINFORCING NOT SHOWN TO BE CONTINUOUS THROUGH STEP

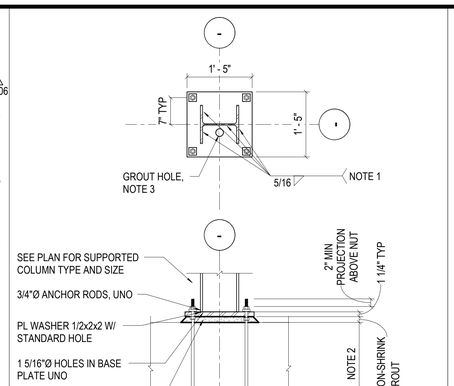
14 3/4" = 1'-0" STRIP FOOTING w/CIP STEM WALL STEP, GREATER THAN 3'-0"



9 3/4" = 1'-0" ESCALATOR PIT WALL

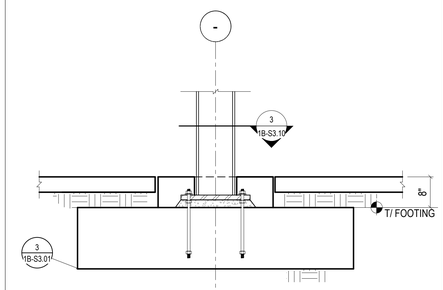


10 3/4" = 1'-0" ESCALATOR FOUNDATION WALL

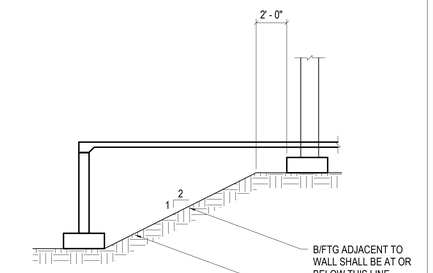


TYPICAL

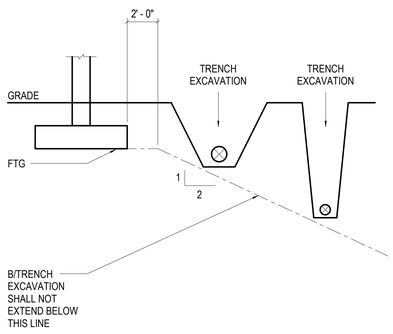
NOTES:
1. ALL AROUND WELD MAY BE USED IN LIEU OF THE WELD SHOWN
2. PROVIDE 3" CLEAR COVER AT FOOTING LOCATIONS
3. 2"Ø MAXIMUM GROUT HOLE AT CONTRACTOR'S OPTION. ONE OR TWO GROUT HOLES RECOMMENDED FOR BASE PLATES LARGER THAN 24" IN WIDTH.



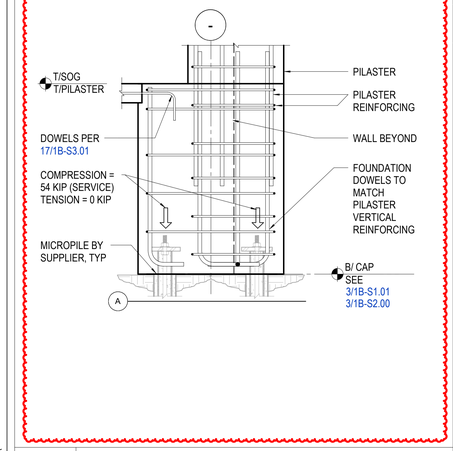
6 3/4" = 1'-0" INTERIOR COLUMN AT SPREAD FOOTING



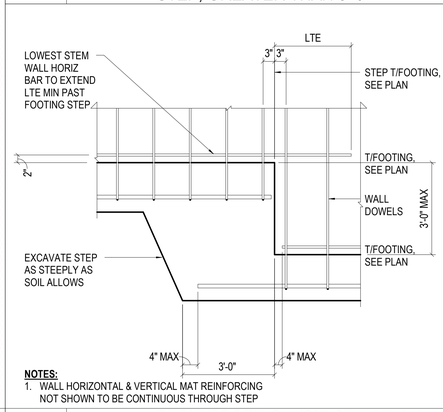
1 1/4" = 1'-0" TYP FTG ADJACENT TO WALL



2 NO SCALE TYP EXCAVATION AT FTG

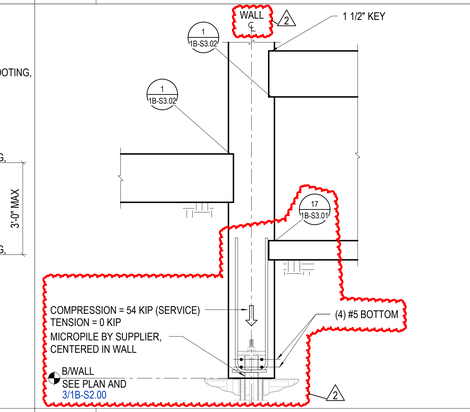


19 3/4" = 1'-0" CANOPY PILASTER



NOTES:
1. WALL HORIZONTAL & VERTICAL MAT REINFORCING NOT SHOWN TO BE CONTINUOUS THROUGH STEP

15 3/4" = 1'-0" STRIP FOOTING w/CIP STEM WALL STEP, 3'-0" AND LESS



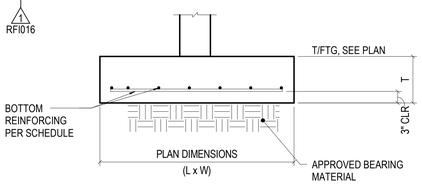
11 3/4" = 1'-0" ESCALATOR PIT WALL TO STAIR

MARK	FOOTING SIZE W x T	LONG REINF	TRANS REINF	REMARKS
SF2	2'-0"x1'-0"	(3) #5	#4@12" OC	BOT ONLY
SF3	3'-0"x1'-0"	(3) #5	#4@12" OC	BOT ONLY
SF4	4'-0"x1'-0"	(4) #5	#4@12" OC	BOT ONLY

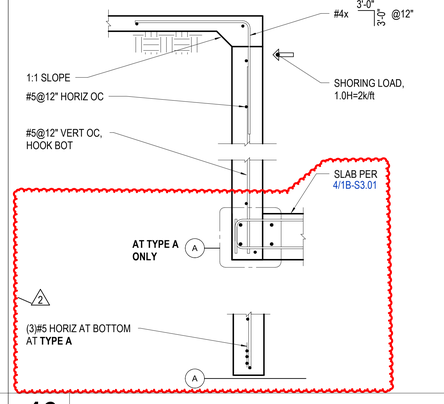
8 NO SCALE TYP STRIP FOOTING

MARK	FOOTING SIZE L x W x T	REINFORCING	SERVICE CAPACITY (KIPS)	REMARKS
F6x6	6'-0"x6'-0"x1'-4"	(7) #5 EW BOT	108	-
F6x8.83A	6'-0"x8'-10"x1'-4"	#5@10" EW BOT	-	-

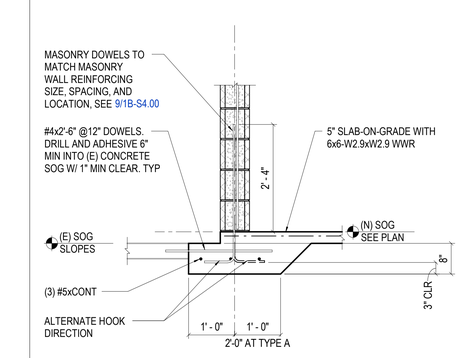
1 RFI016



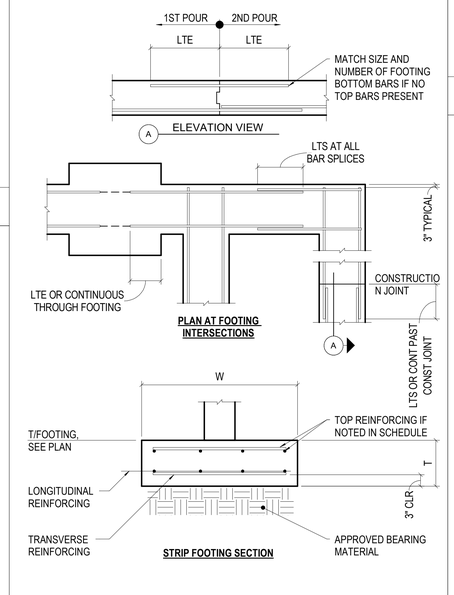
3 NO SCALE TYP SPREAD FOOTING

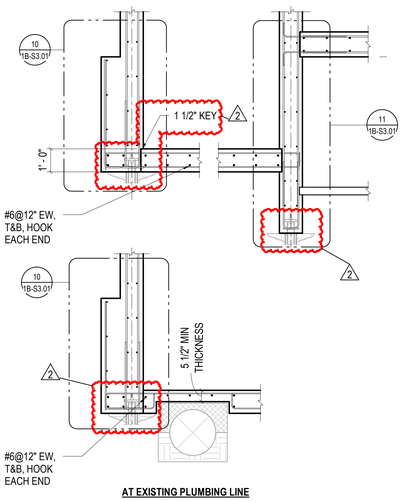


16 3/4" = 1'-0" PIT WALL REINF



12 3/4" = 1'-0" SOG BELOW MASONRY PARTITION WALL





AT EXISTING PLUMBING LINE

4 NO SCALE ESCALATOR PIT

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COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 15, 2021

Seal / Signature

△	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1	2021.06.25	BP3: GOLDWALK - BULLETIN 02
2	2021.07.14	BP3: GOLDWALK - BULLETIN 04

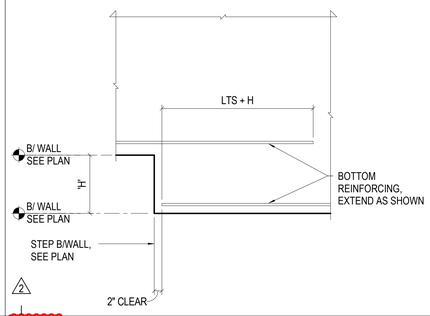
Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
003.7835.000
Description
FOUNDATION DETAILS
Scale
As indicated

1B-S3.01

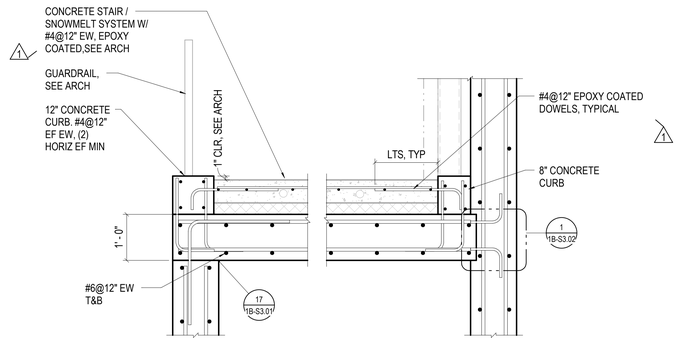
DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 7/15/2021 11:06:30 AM
FILE PATH: E:\BIM 360\003.7835.000 - Steamboat Redev\03.7835.000_Structural_SSRC_GSD 2021_V2021.rvt

MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C.A. CHEN

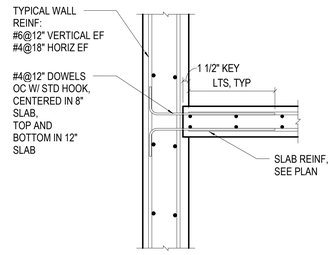
NOTES:
1. WALL HORIZONTAL & VERTICAL MAT REINFORCING NOT SHOWN TO BE CONTINUOUS THROUGH STEP



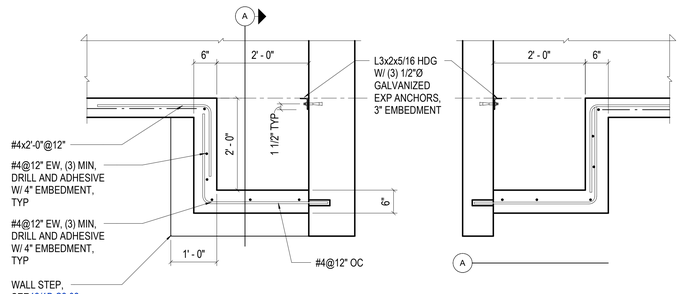
13 3/4" = 1'-0" TYPICAL B/WALL STEP



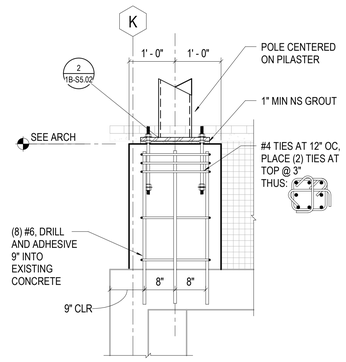
9 3/4" = 1'-0" CIP STAIR CROSS SECTION



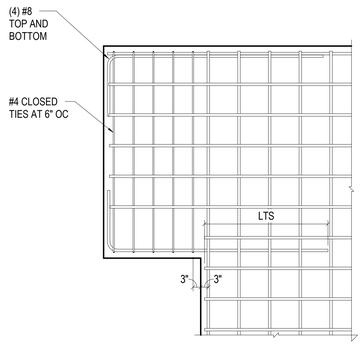
1 3/4" = 1'-0" TYP CIP SLAB TO WALL CONN



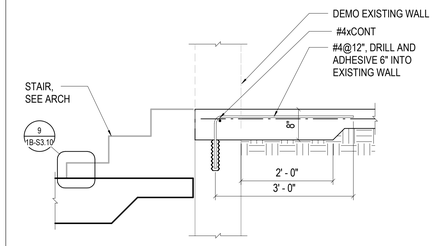
18 3/4" = 1'-0" SUMP PIT



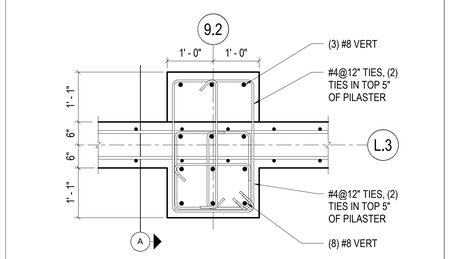
10 3/4" = 1'-0" LIGHT POLE PILASTER

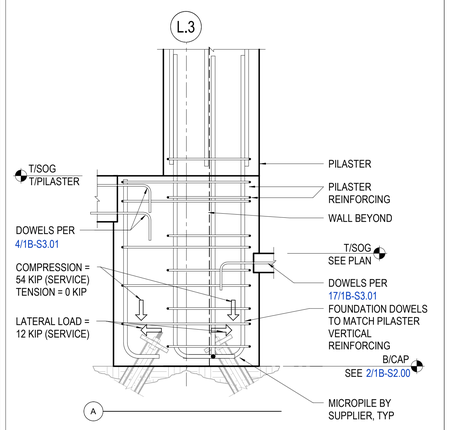


6 1/2" = 1'-0" CIP WALL AT TOP OF ESCALATOR

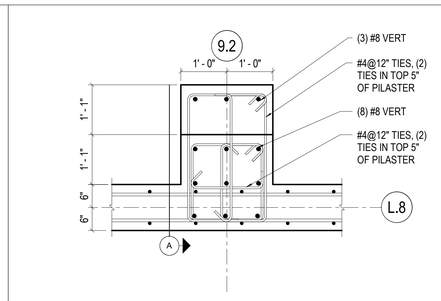


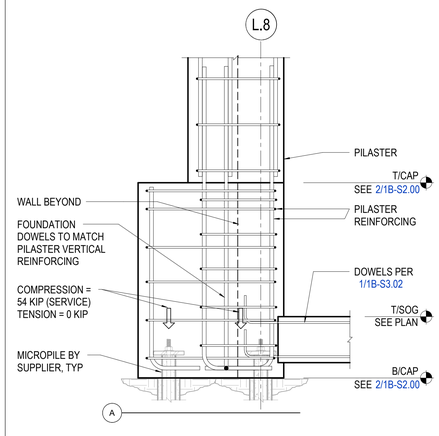
2 3/4" = 1'-0" NEW SLAB ON GRADE TO EXISTING



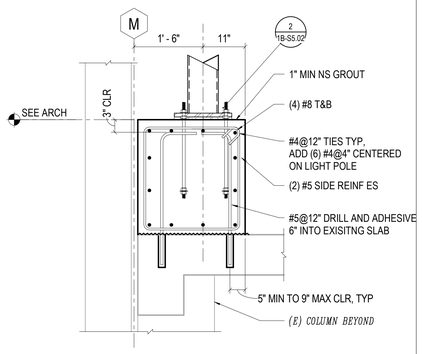


20 3/4" = 1'-0" CANOPY PILASTER AT INT WALL

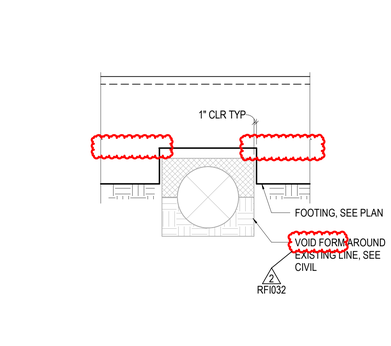




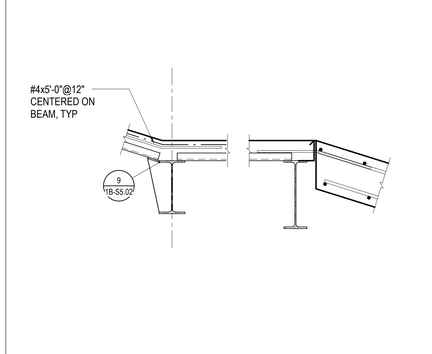
16 3/4" = 1'-0" CANOPY PILASTER AT PIT



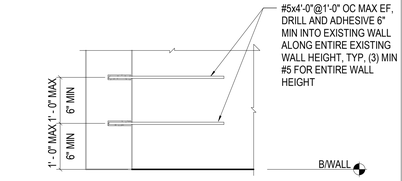
11 3/4" = 1'-0" CONCRETE CURB EDGE AT ARTWALL



7 1/2" = 1'-0" EXISTING SEWER LINE ON NEW FOOTING

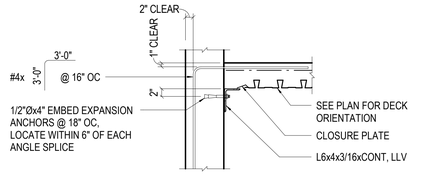


3 3/4" = 1'-0" CIP SLAB TO COMPOSITE DECK TRANSITION

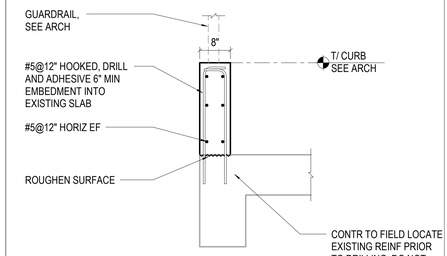


NOTES:
1. SCAN EXISTING CONCRETE AND AVOID DAMAGING ANY EXISTING REINFORCEMENT
2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL

12 3/4" = 1'-0" WALL DOWEL INTO (E) WALL



8 3/4" = 1'-0" COMPOSITE DECK TO CIP WALL



4 3/4" = 1'-0" NEW CURB ON EXISTING SLAB

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COLORADO REGISTERED PROFESSIONAL ENGINEER 38107
July 15, 2021

Seal / Signature

	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1	2021.06.25	BP3: GOLDWALK - BULLETIN 02
2	2021.07.14	BP3: GOLDWALK - BULLETIN 04

Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
003.7835.000
Description
CONCRETE DETAILS
Scale
As indicated

1B-S3.02

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONKES
DATE PRINTED: 7/15/2021 11:06:31 AM
FILE PATH: E:\BIM 360\003.7835.000 - Steamboat Redev\03.7835.000_Structural_S5R_GSD 2021_V2021.rvt

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