Bulletin Number - BP3 Promenade - 07

Gensler

Project	Steamboat Base Village Redevelopment	**Date**	07/30/2021
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 3
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 PROMENADE - BULLETIN 06

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

Issued by Gensler by Jon Gambrill **Date Signed** 07/30/2021

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
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Project	Steamboat Base Village Redevelopment	**Date**	07/30/2021
Project Location	Steamboat, Colorado	**This is page**	2 of 3
	Eric McTee		
Prepared by Gensler by	Jacob Apple	**Date Signed**	7/30/2021

Instructions / Description / References / Dates

Description of Changes

General:

This bulletin addresses the following:

- Updated steel for plaza building revisions
- Updated plaza building footprint and shaft opens
- Added slab step plan
- Updated underground MEP to match Bulletin 06

Structural Drawing Changes:

1. 1A-S0.02
    a. Retail/Food court loading area is updated to match architectural plan.
2. 1A-S1.00
    a. Elevator structural CMU wall requirement is updated.
    b. CMU wall opening elevation is added.
3. 1A-S1.01
    a. W12x19 steel beam size and reaction are clarified at grid E.5/8.5.
    b. At outdoor ice rink, steel beam stud requirements and reaction loads are revised.
    c. Slab step is relocated to grid C.5/1 to C.5/4. Steel framing are updated.
    d. Stair opening and steel framing are revised per updated architectural plan.
    e. Steel framing around the elevators is revised.
    f. Steel framing around the slab opening at grid A/2 is revised.
    g. Bottom of deck at grid 1.5/A.5 is revised to match architectural plan.
    h. Slab step along grid B is removed. Steel framing is revised.
    i. Slab edge at grid A/8 is revised to match architectural plan.
4. 1A-S3.50
    a. Detail 12: Existing wall and field welding symbol are clarified.
    b. Detail 13: Grout requirements and weld symbol are clarified.
    c. Detail 14: Grout requirements and weld symbol are clarified.
5. 1A-S3.51
    a. Detail 6: W10 beam connections are revised.
    b. Detail 8: Detail added.
6. 1A-S4.00
    a. Detail 9: Bottom of CMU wall requirement is clarified.
    b. Detail 13: Bearing plates are clarified.
    c. Detail 15: Composite deck orientation is clarified.
    d. Detail 19: Detail added.
    e. Detail 20: Detail added.
7. 1A-S4.01
    a. Sheet added.
8. 1A-S5.02:
    a. Detail 20: Detail added.
9. 1A-S5.03:

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a. Detail 5: Top of pit wall and top of pit slab elevations are added.
b. Detail 9: Detail added.
c. Detail 10: Detail added.

10. 1A-S5.30:
    a. Detail 5: Cold formed and stone angle is revised per RFI039.
    b. Detail 10: Detail removed.
    c. Detail 11: Top of slab updated.
    d. Detail 13: Detail added.
    e. Detail 14: Detail added.
11. 1A-S5.40
    a. Detail 13: Stone angle is updated per RFI039.

Architectural Drawing Changes:

1. 1A-A1.200
    a. Added clarifying dimensions
2. 1A-A1.201
    a. Revised shaft openings and plaza building footprint
    b. Added floor drain to Zamboni garage
    c. Removed dimensions on slab plan (see 1A-A1.201S)
3. 1A-A1.201S
    a. Added dimensioned slab step plan

Plumbing Drawing Changes:

1. 1A-P1.199
    a. Revised underground piping per new building layout.
2. 1A-P1.200
    a. Revised layout of floor cleanouts and drains per new building layout.

Electrical Drawing Changes:

1. 1A-E0.001
    b. Modified electrical one-lines to remove disconnect from secondary of transformer PBDB with relocation of transformer to electrical room 106.
2. 1A-E1.100U
    a. Modified electrical underground conduit routing for revisions to plaza building and promenade level.
3. 1A-E1.100
    a. Modified electrical conduit routing for promenade level for revisions to plaza building and promenade level.
4. 1A-E1.101
    a. Modified electrical conduit routing for plaza level 1 for revisions to plaza building and promenade level.
5. 1A-E1.102
    a. Modified electrical conduit routing for plaza level 2 for revisions to plaza building and promenade level.
6. 1A-E1.400
    a. Modified electrical room layouts for revisions to plaza and promenade building and promenade level.

Specification Changes:

None

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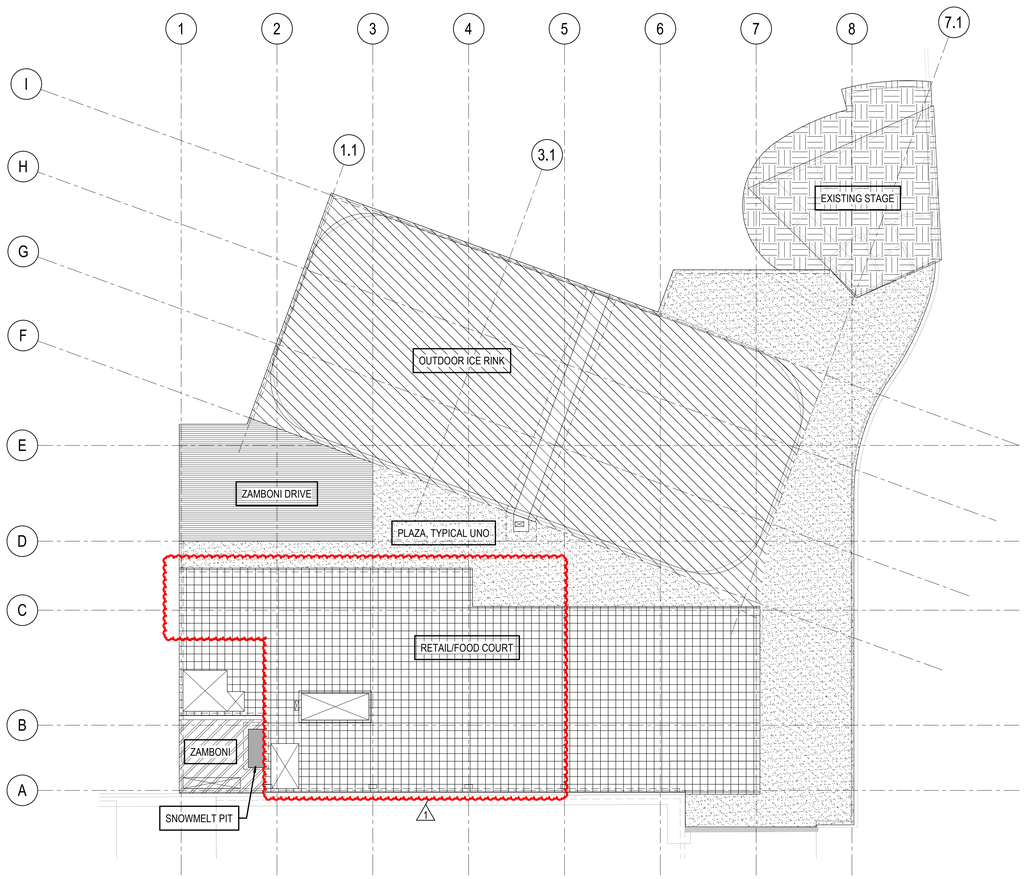

1 PLAZA LOADING PLAN

1/16" = 1'-0"

GRAVITY LOADS				
LOCATION	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	POINT LOAD (LB)
OUTDOOR ICE RINK	107	250	NO	2,000
PLAZA	75	250	NO	2,000 LBS PER WHEEL LOADS, 8,000 LBS TOTAL VEHICLE WEIGHT
RETAIL/FOOD COURT	55	100	NO	2,000
MECH YARD	75	75 + EQUIP BUT NOT LESS THAN 150	NO	--
EXISTING STAGE, PER EXISTING DRAWING DATED 2013	50	100 PER EXISTING DRAWING	YES	2,000
ZAMBONI	150	100	NO	4,800 LBS = MAX ZAMBONI AXLE LOAD, 7,700 LBS = MAX ZAMBONI TOTAL WEIGHT NON-CONCURRENT WITH 100 PSF UNIFORM LOAD
SNOWMELT PIT	75	300	NO	--
ZAMBONI DRIVE	75	250	NO	4,800 LBS = MAX ZAMBONI AXLE LOAD, 7,700 LBS = MAX ZAMBONI TOTAL WEIGHT NON-CONCURRENT WITH UNIFORM LOAD

NOTE:

LOADS ARE SERVICE LEVEL.

FOUNDATION NOTES

1) 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.

2) FOOTINGS:

2A) FOOTINGS ARE DESIGNED BASED ON IMPROVED SOILS USING AGGREGATE PIERS AT COLUMN FOOTINGS AND SHEAR WALL FOOTINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2B) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE = 7000 PSF
- MINIMUM CONTINUOUS FOOTING WIDTH = 12 FT
- MINIMUM SPREAD FOOTING WIDTH = 12 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 = 250 PSF
- LATERAL PRESSURE DUE TO SURCHARGE AT THE PLANTER WALL AND EXISTING STAGE = 100 PSF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4

4B) WALL DESIGN BASED ON IN-SITU SOILS 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.

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COLORADO REGISTERED PROFESSIONAL ENGINEER 38167

July 30, 2021

Seal / Signature

Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1 2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

20.1411.S.01

Description

NOTES

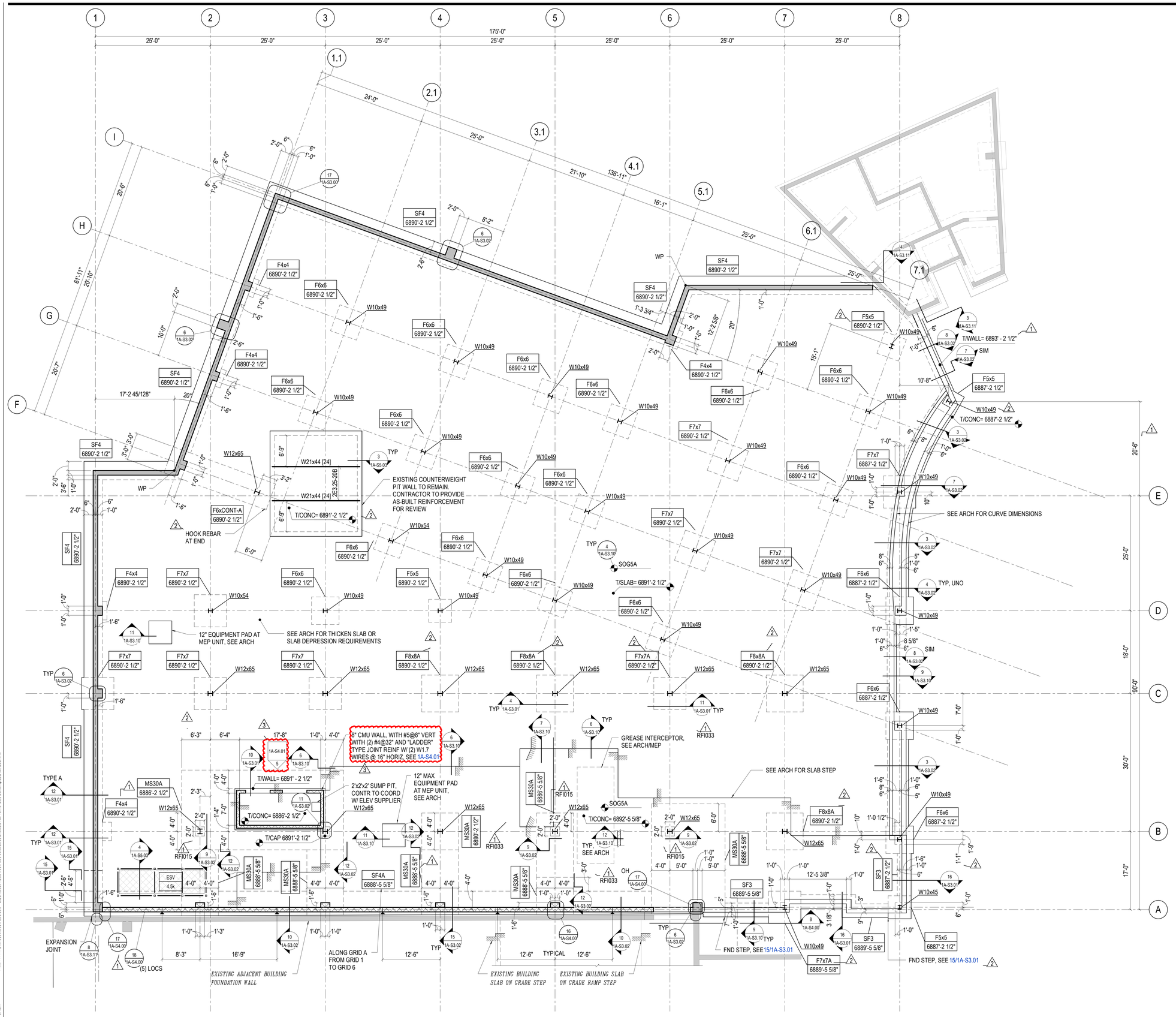
Scale

As indicated

1A-S0.02

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:7/30/2021 3:09:30 PM
FILE PATH:I:\BM\360\7353\000_Steamboat Redev\03.7353.000_Structural_SSR_Promenade Building 2021_V2021.rvt

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



1 PROMENADE BUILDING - FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES

GENERAL:
- SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- VERIFY ALL USGS ELEVATIONS IN FIELD AND WITH CIVIL AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

1) GRADE BEAMS / STEM WALLS:
1A) SEE PLAN FOR DIMENSIONED LOCATIONS OF STEM WALLS.
1B) SEE 19/S3.01 FOR LIMITS OF GRADE BEAM/WALL POUR LENGTHS.
1C) SEE 11/S3.00 FOR TYPICAL PENETRATIONS THROUGH GRADE BEAMS STEM WALLS
1D) REINFORCING
- SEE 17/S3.00 FOR FOUNDATION WALL HORIZONTAL CORNER AND INTERSECTION REINFORCING

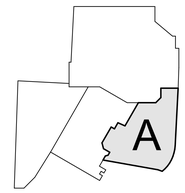
2) SLAB-ON-GRADE:
2A) SEE DETAIL 4/1A-S3.10 FOR TYPICAL SLAB-ON-GRADE DETAIL.
2B) SEE DETAIL 5/1A-S3.10 FOR TYPICAL SLAB-ON-GRADE LAYOUT/INFORMATION.
2C) SEE ARCH AND MECH DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FILL, PADS, AND CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- SEE 11/1A-S3.10 FOR CURB AND MECHANICAL EQUIPMENT PAD DETAILS
2D) SEE ARCH DRAWINGS FOR VAPOR RETARDER LOCATIONS. INSTALL VAPOR RETARDER DIRECTLY UNDER SLAB PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04. TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB TO ACHIEVE SPECIFIED FLOOR FLATNESS AND LEVELNESS VALUES.
2E) SLABS-ON-GRADE WITH EXTERIOR EXPOSURE, SHALL BE REINFORCED WITH EPOXY COATED (EC) REINFORCING.
2F) SEE "CONCRETE GENERAL NOTES " FOR JOINTING REQUIREMENTS AT SLAB-ON-GRADE.

3) COLUMNS/PILASTERS:
3A) ALL COLUMNS/PILASTERS ARE CENTERED ON THE INTERSECTION OF GRIDS BELOW THE SUPPORTED COLUMN UNLESS DIMENSIONED OTHERWISE ON PLAN.

4) MASONRY WALLS:
4A) MASONRY PARTITION WALLS ARE NOT SHOWN.
- SEE 1A-S4.00 FOR TYPICAL MASONRY PARTITION WALL DETAILS.
4B) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

5) MISCELLANEOUS NOTES:
5A) SEE SHEET 1A-S3.00 FOR MISCELLANEOUS CONCRETE DETAILS AND INFORMATION INCLUDING CONCRETE LAP SPLICE SCHEDULE, TYPICAL HOOK DETAILS, AND CLEAR COVER REQUIREMENTS.
5B) SEE DETAIL 11/1A-S3.00 FOR TYPICAL REINFORCING AT WALL PENETRATIONS.
5C) SEE DETAIL 8/1A-S3.00 FOR TYPICAL WELD BETWEEN REINFORCING BARS AND EMBED PLATES. DETAIL APPLIES AT ALL LOCATIONS WHERE "DAS" IS INDICATED ON DRAWINGS.
5D) 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 AFFECTED FOUNDATIONS.

KEY PLAN



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COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

Seal / Signature

	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.06.29	BP3: PROMENADE - BULLETIN 02
2	2021.07.22	BP3: PROMENADE - BULLETIN 05
3	2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

Description
PROMENADE BUILDING - LOWER LEVEL 1

Scale
As indicated

1A-S1.00

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONKES
DATE PRINTED: 7/30/2021 3:09:32 PM
FILE PATH: I:\BIM 360\1803.TBS.000 - Steamboat Redevl\03 TBS.000_Structural_SSRI_Promenade Building 2021_V2021.rvt

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

PLAN NOTES

GENERAL:
- SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

- SEE S5 SERIES SHEETS FOR TYPICAL STEEL DETAILS.

1) COLUMNS:
ALL COLUMNS ARE CENTERED ON THE INTERSECTION OF GRIDS UNLESS DIMENSIONED OTHERWISE ON PLAN.

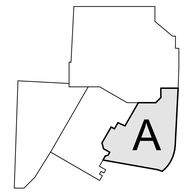
2) STEEL BEAMS:
STEEL BEAMS SHALL BE EQUALLY SPACED BETWEEN GRIDLINES/COLUMNS/GIRDERS UNLESS DIMENSIONED OTHERWISE.
TOP OF STEEL BEAMS SHALL EQUAL BOTTOM OF METAL DECK ELEVATION. SEE PLAN FOR TOP OF CONCRETE ELEVATION AND SLAB THICKNESS TO DETERMINE BOTTOM OF METAL DECK ELEVATION.
REQUIRED BEAM END CONNECTION CAPACITY IN KIPS NOTED ON PLAN THUS: XXk. IF TWO SYMBOLS ARE SHOWN THEY DENOTE THE REQUIRED CONNECTION CAPCITY AT THE CORRESPONDING BEAM END. IF ONLY ONE SYBMOL IS SHOWN IT DENOTES THE REQUIRED CONNECTION CAPACITY AT EACH END OF THE BEAM. DETAIL CONNECTIONS FOR REQUIRED CONNECTION CAPACITY PER SHEET S5.60. ALL BEAM END DRAG CONNECTIONS NOTED ON PLAN HAVE BEEN FACTORED PER THE ASCE 7 STRENGTH DESIGN LOAD COMBINATIONS.
REQUIRED BEAM END DRAG CONNECTION CAPACITY IN KIPS NOTED ON PLAN THUS: XXk. SYMBOLS DENOTE THE REQUIRED CONNECTION CAPCITY AT THE CORRESPONDING BEAM END. DETAIL CONNECTIONS FOR REQUIRED CONNECTION CAPACITY PER SHEETS 1A-S5.00 AND 1A-S5.01. ALL BEAM END CONNECTIONS NOTED ON PLAN HAVE BEEN FACTORED PER THE ASCE 7 STRENGTH DESIGN LOAD COMBINATIONS.
PLACE NUMBER OF SHEAR STUDS INDICATED ON PLAN THUS: [XX] PER DETAIL 11/1A-S5.31. ALL SHEAR STUDS ARE 3/4"Ø. SEE DETAIL 11/1A-S5.31 FOR NET IN-PLACE LENGTH OF SHEAR STUDS.

3) METAL DECK:
SEE SHEETS 1A-S5.31 AND FOR TYPICAL METAL DECK DETAILS.
SEE DETAIL 19/1A-S5.31 FOR DECK SUPPORT FRAMING REQUIRED AT DECK PENETRATIONS WITH ONE SIDE EXCEEDING 10".

4) STRUCTURAL SLAB-ON-DECK:
TOP OF CONCRETE SLAB NOTED ON PLAN THUS:
SUBMIT LOCATIONS OF SLAB CONSTRUCTION JOINTS FOR REVIEW 3 WEEKS (MINIMUM) PRIOR TO PLACEMENT OF CONCRETE. SPACE JOINTS AND POUR SEQUENCES TO MINIMIZE SHRINKAGE CRACKS. SEE "GENERAL NOTES- CONCRETE" FOR JOINTING REQUIREMENTS AT SLAB-ON-DECK.
REINFORCING DETAILS
SEE DETAIL 19/1A-S5.30 FOR ADDITIONAL REINFORCING REQUIRED AT SLAB PENETRATIONS/OPENINGS.

4) MECHANICAL AND ELECTRICAL EQUIPMENT
4A) SEE 20/1A-S5.31 FOR REQUIREMENTS AT MECHANICAL AND ELECTRICAL EQUIPMENT.
4B) 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.
1C) MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: XXk.
- MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING BEAMS / JOISTS.
- EQUIPMENT TO BE PLACED TO BEAR ON TWO BEAMS / JOISTS MINIMUM. EACH SUPPORTING JOIST AND/OR JOIST GIRDER SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD FROM THE MECHANICAL EQUIPMENT. THIS LOAD IS IN ADDITION TO THE JOIST UNIFORM LOADS OR JOIST GIRDER POINT LOADS INDICATED.

KEY PLAN



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COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

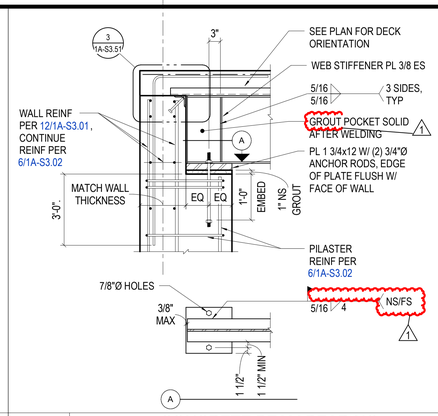
Seal / Signature

	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.06.29	BP3: PROMENADE - BULLETIN 02
2	2021.07.30	BP3: PROMENADE - BULLETIN 07

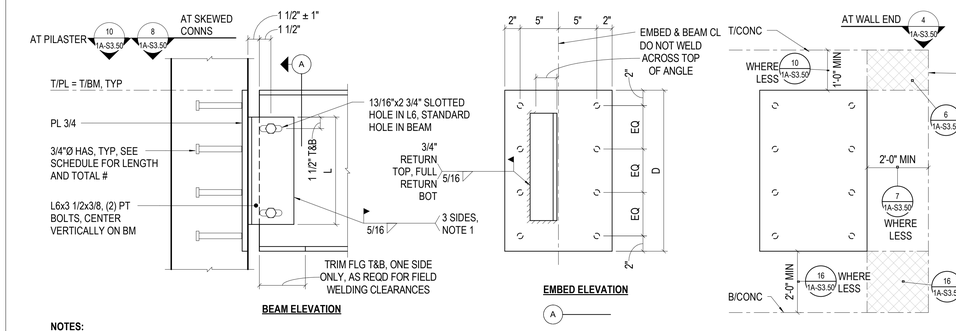
Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
20.1411.S.01
Description
PROMENADE BUILDING - LEVEL 1
Scale
As indicated
Ref North

1A-S1.01

DESIGNERS: NC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:7/30/2021 3:09:33 PM
FILE PATH:S:\84-300\1000-1500.000- Steamboat Rodeo\03 7850.000_Structural_SBR_Promenade Building 2021_V2021.rvt
MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR KELLY KNOWLES
PROJECT MANAGER: A. CHEN



13 3/4" = 1'-0" CONCRETE BEAM BEARING - POCKET



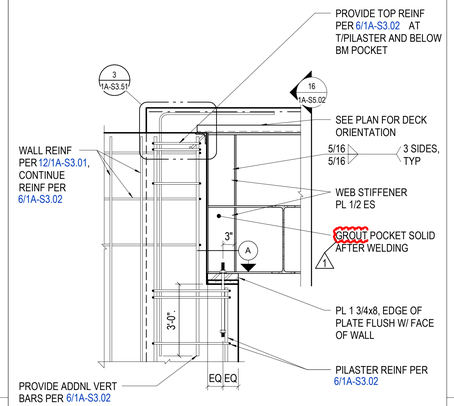
NOTES:
1. COMPLETE ALL WELDS PRIOR TO INSTALLING DECK OR USING BEAM TO SUPPORT ANY CONSTRUCTION MATERIALS
2. SEE 8/1A-S3.00 FOR WELDING OF REBAR TO EMBED PLATES WHEN REQUIRED. DAS MAY BE SUBSTITUTED FOR REBAR.

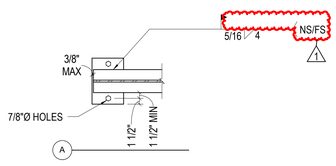
TYP EMBEDDED PL SCHED**

BEAM	CAPACITY (KIPS)* 8" STUDS	D (IN)	L (IN)	TOTAL # HAS
W12	39	12	8	4
W14	51	14	9	6
W16	61	16	10	6
W18	78	18	12	6
W30	113	30	18	14
W36	124	36	20	16

* ULTIMATE LEVEL (LRFD)
** EMBEDDED PLATE TYPE IS BASED ON BEAM DEPTH. IF PLAN REACTION IS GREATER THAN SCHEDULED CAPACITY, REQUEST CUSTOM CONNECTION FROM ENGINEER

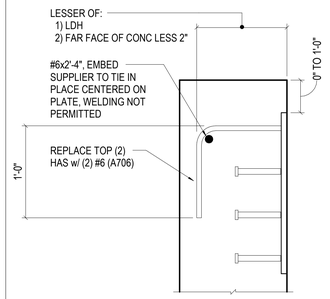
9 NO SCALE TYPICAL BEAM EMBED PL CONNECTION & SCHEDULE - LRFD



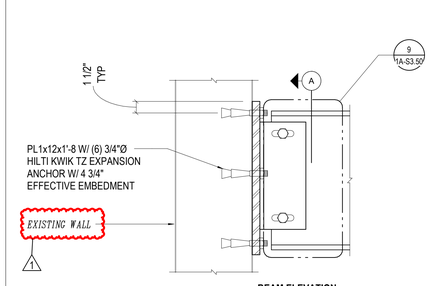


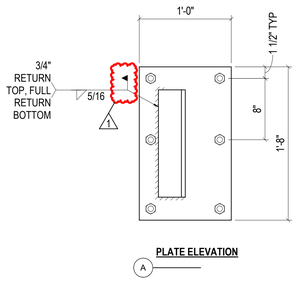
NOTE: SEE 13/1A-S3.50 FOR ADDNL INFORMATION

15 3/4" = 1'-0" CONCRETE BEAM BEARING - END POCKET

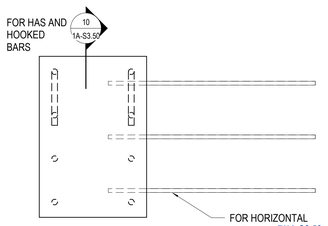


10 NO SCALE BEAM EMBED NEAR TOP OF WALL SINGLE SIDED

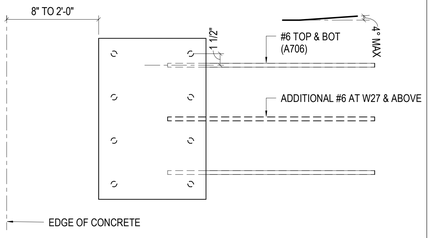




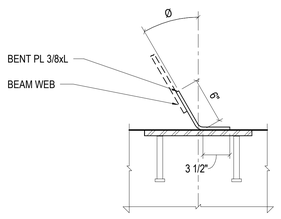
12 NO SCALE POST-INSTALLED CONNECTION TO (E) WALL



6 NO SCALE BEAM EMBED NEAR TOP EDGE OF WALL



7 NO SCALE BEAM EMBED NEAR EDGE OF WALL

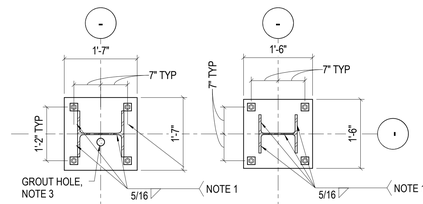


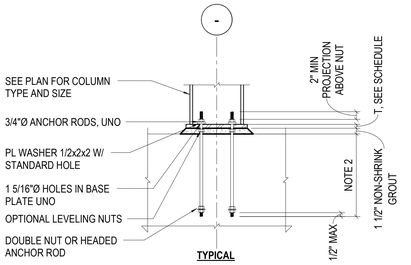
NOTES:
1. REQUEST CONN FROM ENGINEER IF Ø > 45°

8 NO SCALE BEAM EMBED AT SKEWED BM

BASE PLATE DIMENSIONS

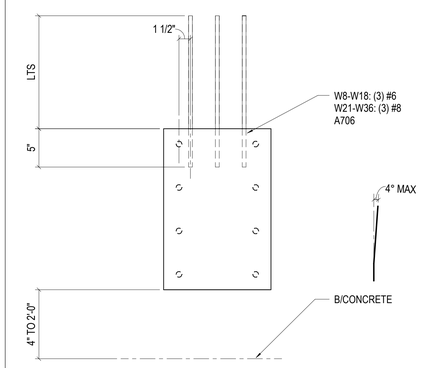
COLUMN SIZE	PLATE THICKNESS, T (in)	B, (in)	N, (in)
W10x45-W10x49	1 1/4	18	18
W12x65	1 3/4	19	19



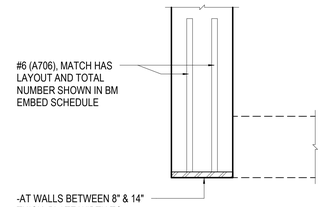


NOTES:
1. ALL AROUND WELD MAY BE USED IN LIEU OF THE WELD SHOWN
2. GREATER OF 9" OR 8xANCHOR ROD Ø
3. 2"Ø MAXIMUM GROUT HOLE AT CONTRACTOR'S OPTION. ONE OR TWO GROUT HOLES RECOMMENDED FOR BASE PLATES LARGER THAN 24" IN WIDTH.

3 3/4" = 1'-0" TYPICAL GRAVITY COLUMN BASE PLATE



16 1 1/2" = 1'-0" BEAM EMBED NEAR BOTTOM OF WALL



4 1 1/2" = 1'-0" BEAM EMBED AT END OF WALL

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COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

Seal / Signature

Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1 2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

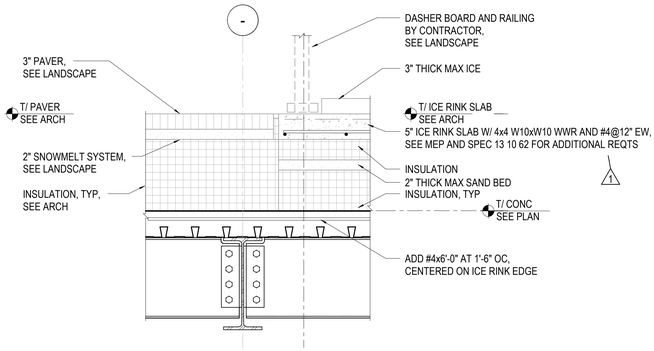
Description
CONCRETE SUPPORTING STEEL DETAILS

Scale
As indicated

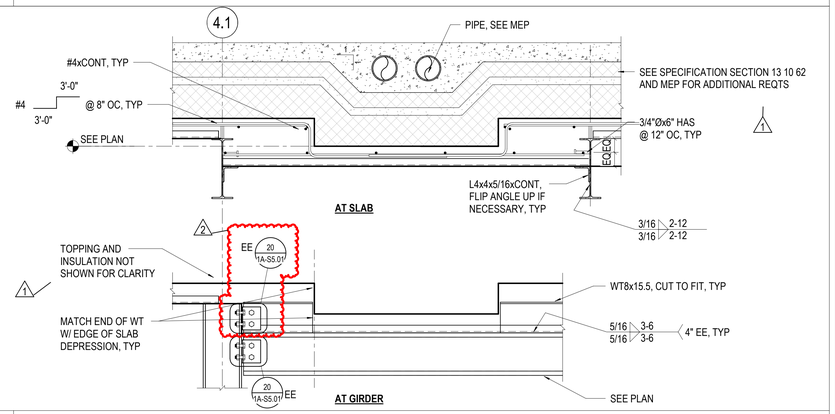
1A-S3.50

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONKES
DATE PRINTED:7/30/2021 3:09:35 PM
FILE PATH: BIM 360:/053.1835.000 - Steamboat Redev/03.1835.000_Structural_SSRC_Promenade Building 2021_V2021.rvt

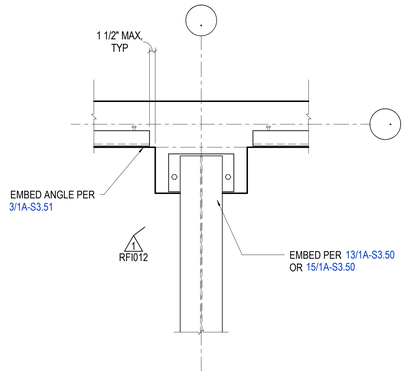
MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C.A. CHEN



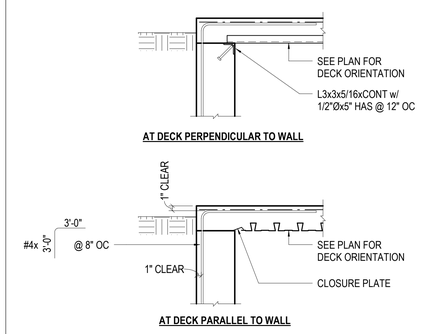
5 1" = 1'-0" ICE RINK SLAB



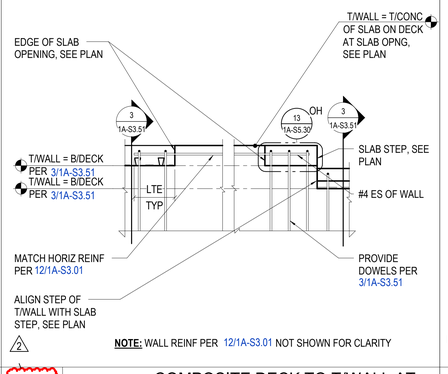
6 3/4" = 1'-0" ICE RINK HEADER TRENCH FRAMING



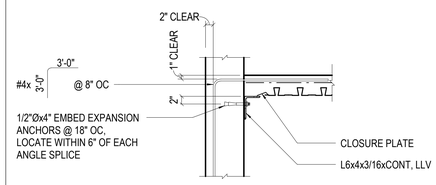
7 3/4" = 1'-0" DECK SUPPORT T/PILASTER



3 3/4" = 1'-0" TYPICAL COMPOSITE DECK TO T/CONCRETE WALL



8 3/4" = 1'-0" COMPOSITE DECK TO T/WALL AT STAIR OPNG



4 3/4" = 1'-0" STEPPED COMPOSITE DECK TO CONCRETE WALL

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COLORADO REGISTERED 38167 PROFESSIONAL ENGINEER
July 30, 2021

Seal / Signature

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.06.29	BP3: PROMENADE - BULLETIN 02
2	2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

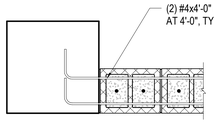
Description
CONCRETE SUPPORTING METAL DECK

Scale
As indicated

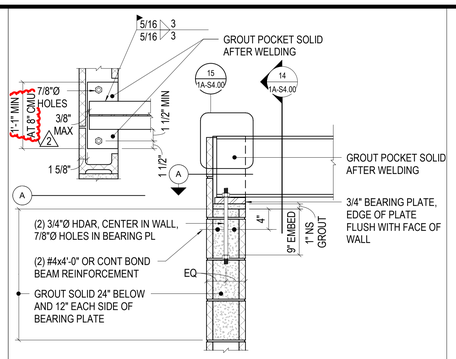
1A-S3.51

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 7/30/2021 3:09:37 PM
FILE PATH: E:\BIM 360\353.1500 - Steamboat Redev\03 7855.000_Structural _SSRC_Promenade Building 2021_1\2021.rvt

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



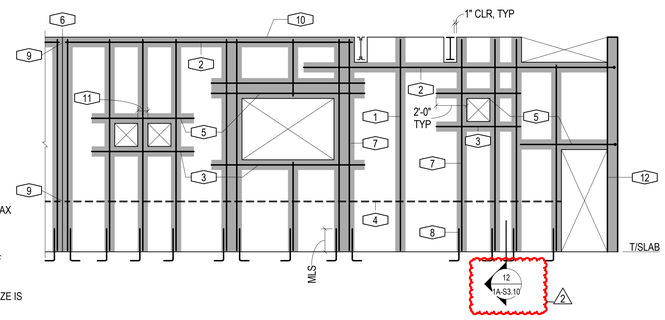
17 | 3/4" = 1'-0" | CMU WALL TO CONCRETE



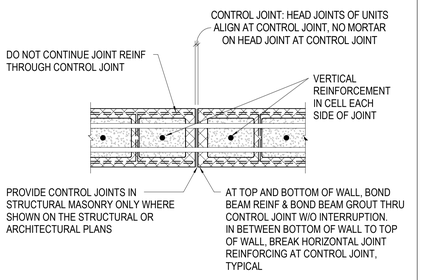
13 | 1" = 1'-0" | MASONRY BEAM BEARING

KEYNOTES:

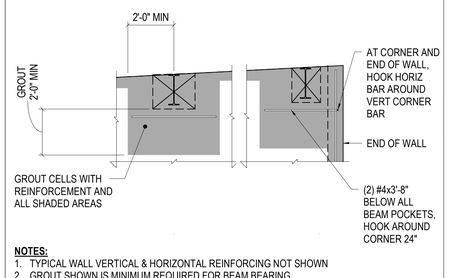
1. TYPICAL WALL VERTICAL REINFORCING: #4@48" OC INTERIOR, #4@24" EXTERIOR
2. BOND BEAM W/ (1) #5 AT T/WALL
3. BOND BEAM W/ (1) #5 AT BOT OF ALL OPENINGS
4. HORIZ JOINT REINF: "LADDER" TYPE JOINT REINF W/ (2) W1.7 WIRES @ 16" OC
5. LINTEL
6. CONTROL JOINTS @ 20'-0" OC MAX AND EACH END OF WALL, UNO
7. JAMB REINFORCEMENT EACH SIDE OF OPENING
8. DOWELS TO MATCH SIZE AND LOCATION OF VERTICAL BARS
9. TERMINATE ALL HORIZONTAL REINFORCEMNET AT CONTROL JOINTS
10. T/WALL SUPPORT, SEE DETAILS THIS PAGE, LOCATE AT 8'-0" OC MAX INTERIOR, 4'-0" OC MAX EXTERIOR
11. AT SERIES OF TWO OR MORE OPENINGS, MASONRY LINTEL REINFORCEMNET SHALL BE CONTINUOUS. IF SPACE BETWEEN OPENINGS IS LESS THAN 1'-4", USE OVERALL WIDTH OF SERIES OF OPENINGS TO DETERMINE LINTEL SIZE AND JAMB REINF
12. WHERE EDGE OF OPENING IS FLUSH WITH PERPENDICULAR WALL, OR REQUIRED JAMB SIZE IS LARGER THAN AVAILABLE, A CONTROL JOINT IS NOT PERMITTED AT THIS INTERSECTION



9 | 1/4" = 1'-0" | TYPICAL MASONRY PARTITION ELEVATION



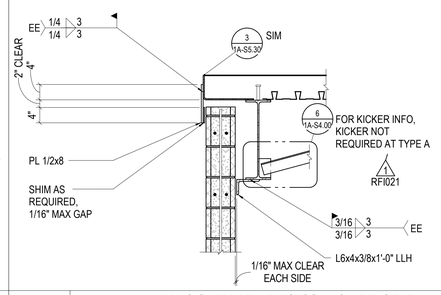
18 | 1 1/2" = 1'-0" | TYPICAL MASONRY WALL CONTROL JOINT



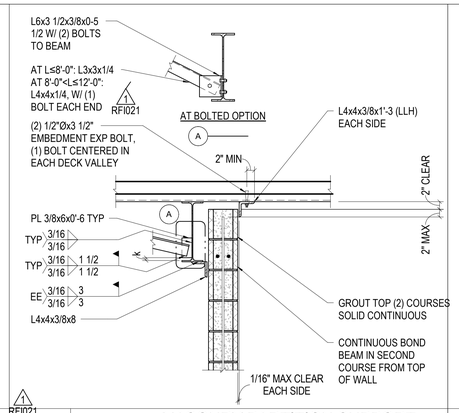
NOTES:

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

14 | 3/8" = 1'-0" | MASONRY WALL AT BEAM POCKET



10 | 3/4" = 1'-0" | MASONRY PARTITION SUPPORT - EOS



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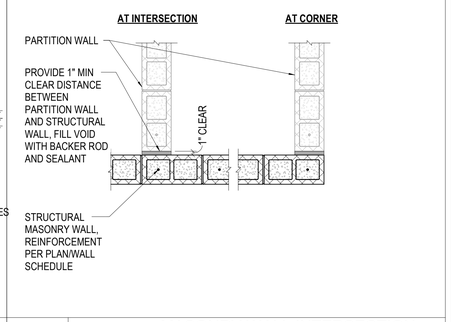
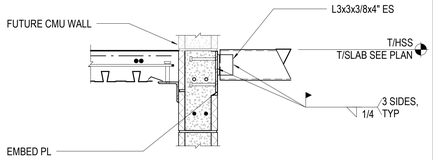
6 | 3/4" = 1'-0" | MASONRY PARTITION SUPPORT - ADJACENT TO STEEL BEAM



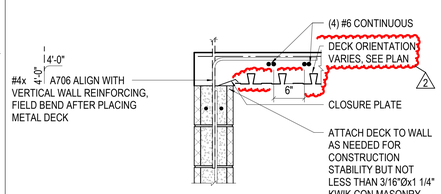
2 | 3/4" = 1'-0" | MASONRY WALL INTERSECTION - PARTITION TO STRUCTURAL WALL



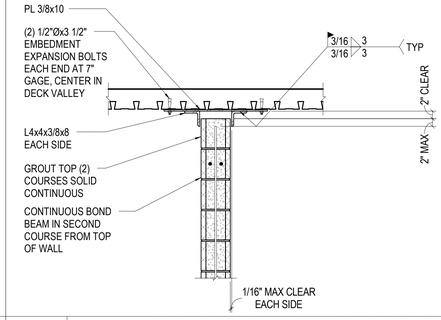
NOTES:

1. SEE 11/1A-S4.01 FOR ADDITIONAL INFORMATION

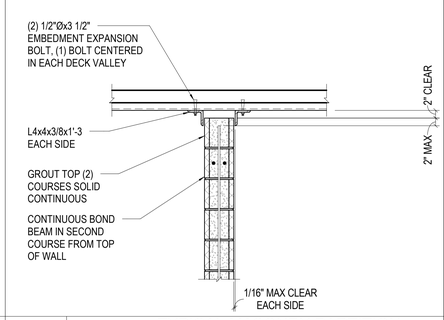
19 | 1" = 1'-0" | MASONRY ELEV HOIST BM SUPPORT



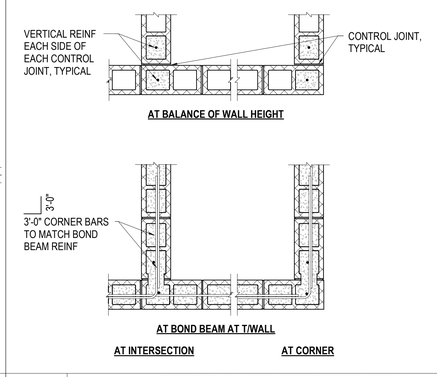
15 | 1" = 1'-0" | MASONRY WALL SUPPORTING COMPOSITE DECK - TOP



11 | 3/4" = 1'-0" | TYP MASONRY PARTITION SUPPORT - PARALLEL/SKEWED TO DECK



7 | 3/4" = 1'-0" | TYPICAL MASONRY PARTITION SUPPORT - PERP TO DECK



3 | 3/4" = 1'-0" | PARTITION TO PARTITION WALL DETAIL

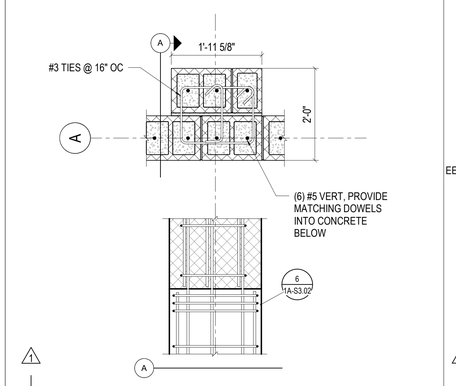
MASONRY LAP SPLICE SCHEDULE f'm = 2000 psi

BAR SIZE		REINF CENTERED	REINF AT FACE AND AT BOND BEAMS 2" CLR
ENGLISH	METRIC		
#3	#10	15	15
#4	#13	20	22
#5	#16	25	35
#6	#19	38	54
#7	#22	52	63

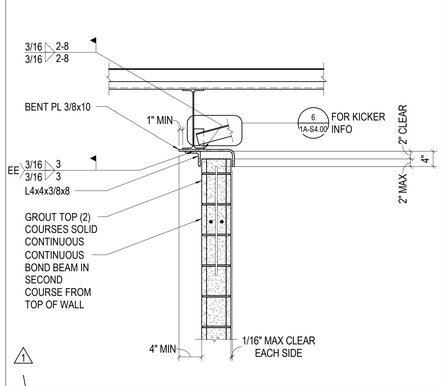
NOTES:

1. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS
2. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN INSTEAD OF SCHEDULED LAP LENGTHS
3. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE LENGTHS BY 50%
4. MECHANICAL COUPLERS MAY BE USED IN LIEU OF ANY LAP LENGTH SHOWN
5. WHEN LOW LIFT GROUTING IS USED, AND THE LAP LENGTH EXCEEDS THE GROUT LIFT HEIGHT (NOTED BY *), A MECHANICAL COUPLER IS REQUIRED IN LIEU OF LAPPED REINF.
6. VERTICAL REINF IN PILASTERS WITH AT LEAST 3 1/2" CLEAR SHALL BE SPLICED PER THE "REINF CENTERED" COLUMN
7. HORIZONTAL BOND BEAM RENF SHALL BE SPLICED PER THE "REINF AT FACE" COLUMN

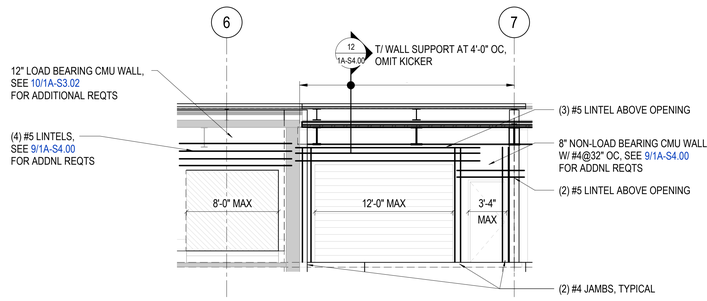
20 | NO SCALE | MASONRY STRENGTH DESIGN LAP SPLICE SCHEDULE - 2000



16 | 3/4" = 1'-0" | MASONRY PILASTER



12 | 3/4" = 1'-0" | MASONRY PARTITION SUPPORT - PARALLEL TO STEEL BEAM



8 | 3/16" = 1'-0" | MASONRY WALL OPENING - 1

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COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

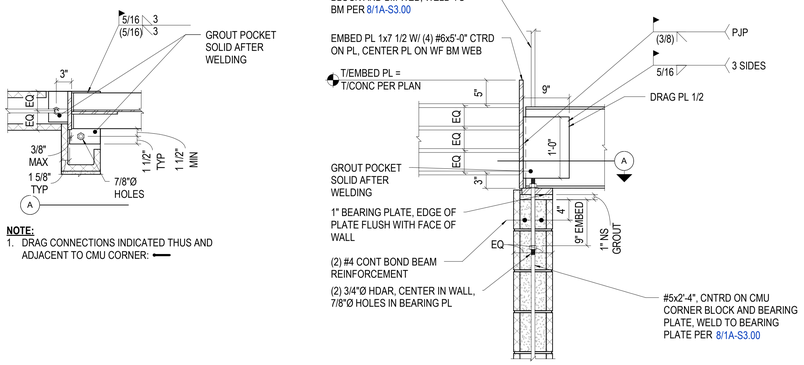
Seal / Signature

Date	Description
-	2021.05.19 BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.06.29 BP3: PROMENADE - BULLETIN 02
2	2021.07.30 BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
20.1411.S.01
Description
MASONRY DETAILS
Scale
As indicated

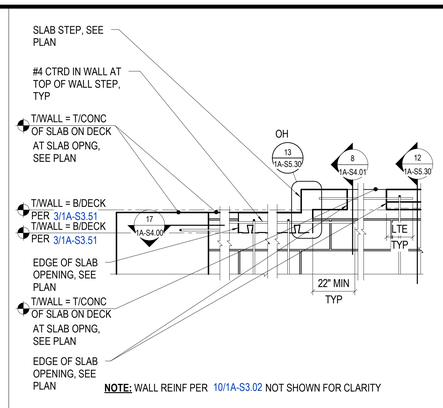
1A-S4.00

DESIGNERS: NIC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 7/30/2021 3:09:39 PM
FILE PATH: BIM 360:/003.1800.000 - Steamboat Redev/03.7800.000_Structural_SSRC_Promenade Building 2021_V2021.rvt
MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C.A. CHEN



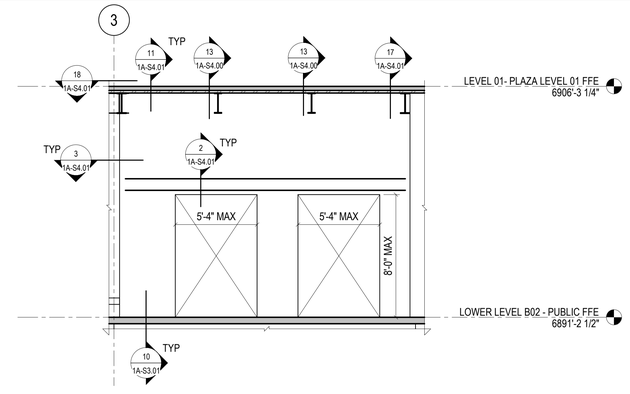
NOTE:
1. DRAG CONNECTIONS INDICATED THUS AND ADJACENT TO CMU CORNER: —

17 1" = 1'-0" MASONRY DRAG CONN - 1

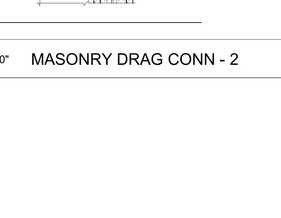


NOTE: WALL REINF PER 10/1A-S3.02 NOT SHOWN FOR CLARITY

9 3/4" = 1'-0" CMU WALL STEP AT OPNG



5 CMU ELEVATOR OPENING
1/4" = 1'-0"



NOTES:
1. SEE 17/1A-S4.01 FOR ADDNL INFORMATION

18 1" = 1'-0" MASONRY DRAG CONN - 2

NOTES:
1. TYPICAL WALL VERTICAL AND HORIZONTAL REINFORCING NOT SHOWN
2. GROUT SHOWN IS MINIMUM REQUIRED FOR EMBED, SEE 4/1A-S4.01 FOR ADDNL GROUTING REQUIREMENTS

11 1" = 1'-0" MASONRY WALL SUPPORTING COMPOSITE DECK

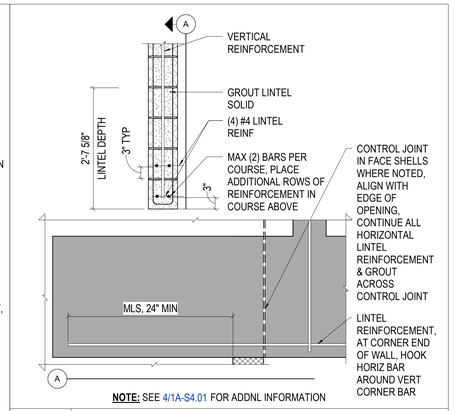
BEAM EMBED IN MASONRY PILASTER

STRUCTURAL MASONRY BEAM EMBED TABLE (LRFD)

BEAM TYPE	D INCHES	L INCHES	TOTAL # HAS	TOTAL # BOND BEAMS	CONNECTION CAPACITY, KIPS *
					12" MASONRY
W12	12	6	4	3	36
W16	16	8	6	3	48
W36	36	18	16	6	82

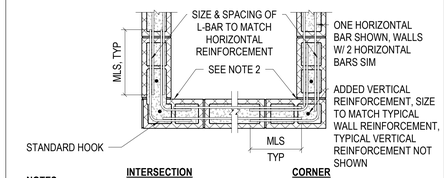
* ULTIMATE LEVEL (LRFD)
** EMBEDDED PLATE TYPE IS BASED ON BEAM DEPTH. IF PLAN REACTION IS GREATER THAN SCHEDULED CAPACITY, REQUEST CUSTOM CONNECTION FROM ENGINEER

8 3/4" = 1'-0" FUTURE COL ON MAS PILASTER



NOTE: SEE 4/1A-S4.01 FOR ADDNL INFORMATION

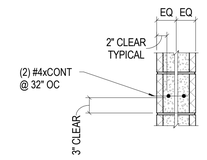
2 3/4" = 1'-0" MASONRY LINTEL



NOTES:
1. 90 DEG CORNER AND INTERSECTION IS SHOWN. WALLS MEETING AT OTHER ANGLES SHALL HAVE (a) BLOCK OVERLAPPING 4" MIN AT ALL HEAD JOINTS OR (b) FACE SHELL BROKEN OPEN AND COMMON CORE GROUTED
2. IF HEAD JOINT ALIGNS OVER THE FULL WALL HEIGHT, BREAK OPEN FACE SHELLS AND GROUT WALLS TOGETHER FULL HEIGHT, TYP AT ALL CORNERS AND INTERSECTIONS

INTEGRALLY CONNECTED AT CORNERS & INTERSECTIONS OF MASONRY WALLS

3 3/4" = 1'-0" INTEGRALLY CONSTRUCTED STRUCTURAL MASONRY CORNER



NOTES:
1. ALL VERTICAL REINFORCEMENT SHALL BE CENTERED (UNO) IN GROUTED CELLS
2. PROVIDE 'LADDER' TYPE HORIZONTAL JOINT REINFORCEMENT WITH 2-W1.7 (9 GA) WIRES (MIN) AT 16" OC, TYPICAL, AND AT 8" OC IN PARAPETS
3. REFERENCE SPECIAL LINTEL REINFORCEMENT NOTED IN 2/1A-S4.01
4. ONLY STRUCTURAL WALLS ARE INCLUDED IN STRUCTURAL DRAWINGS. SEE ARCH FOR CMU PARTITIONS

4 NO SCALE TYPICAL MASONRY BOND BEAM

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STATE OF COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

Seal / Signature

Date	Description
1 2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
20.1411.S.01
Description
MASONRY DETAILS

Scale
As indicated

1A-S4.01

MM JOB # 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR KELLY KNOWLES
PROJECT MANAGER: A. CHEN
DESIGNER: NC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:7/30/2021 3:09:41 PM
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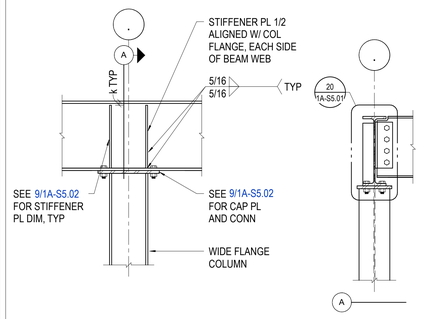
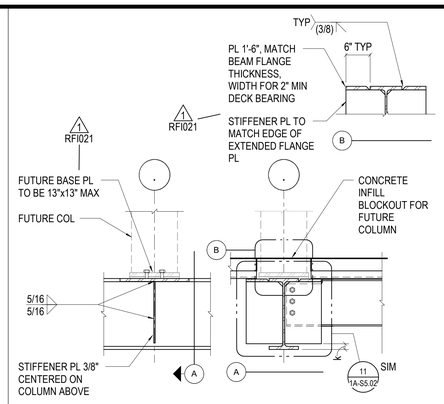
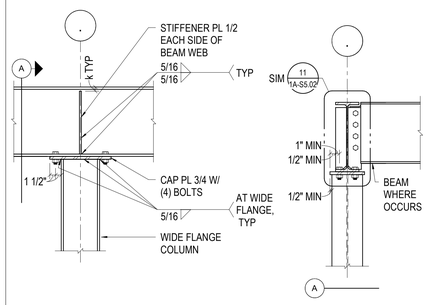


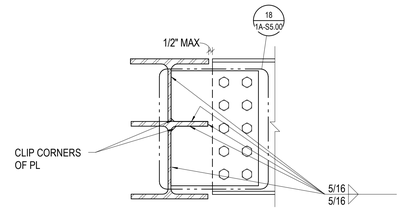
17 3/4" = 1'-0" HEAVY BEAM OVER PARALLEL COLUMN



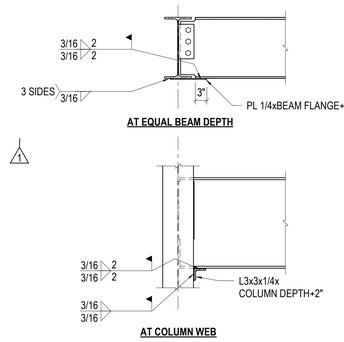
13 3/4" = 1'-0" COLUMN TRANSFER - FUTURE COLUMN



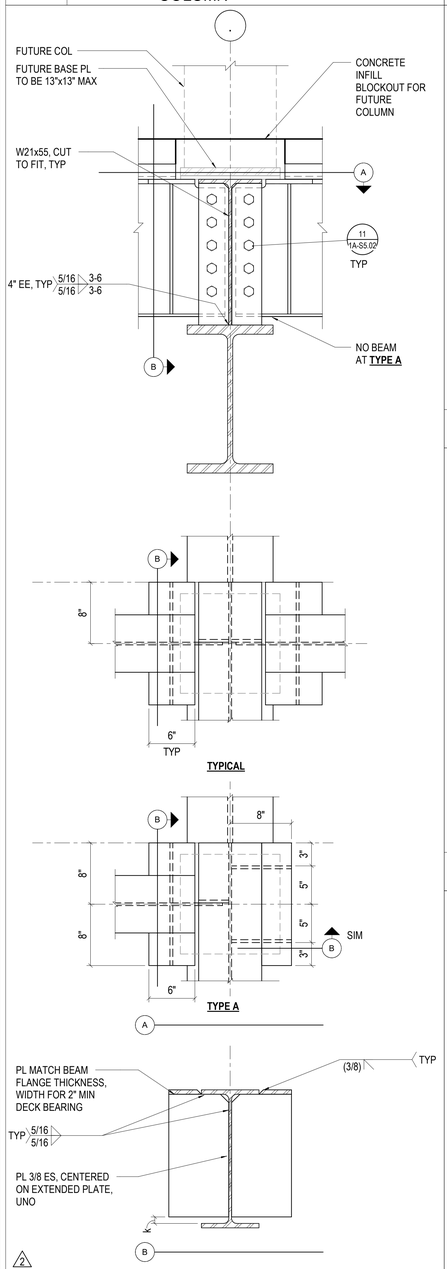
9 3/4" = 1'-0" BEAM OVER PARALLEL COLUMN



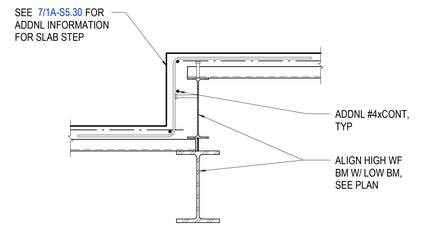
5 1 1/2" = 1'-0" STEPPED BM CONN



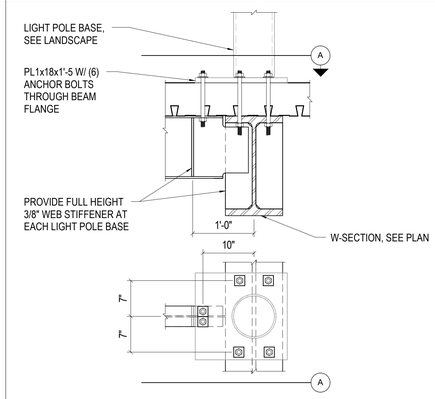
1 3/4" = 1'-0" BOTTOM FLANGE BRACING



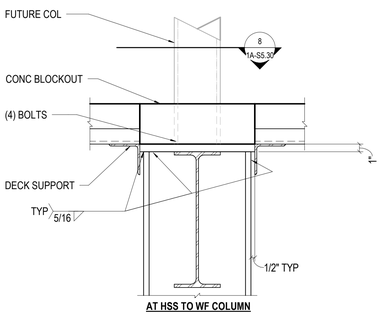
20 1 1/2" = 1'-0" STACKED BM



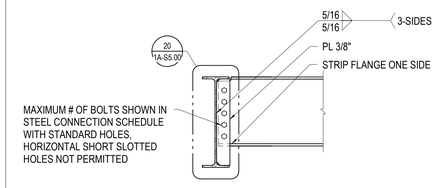
14 3/4" = 1'-0" TWO BM SLAB STEP



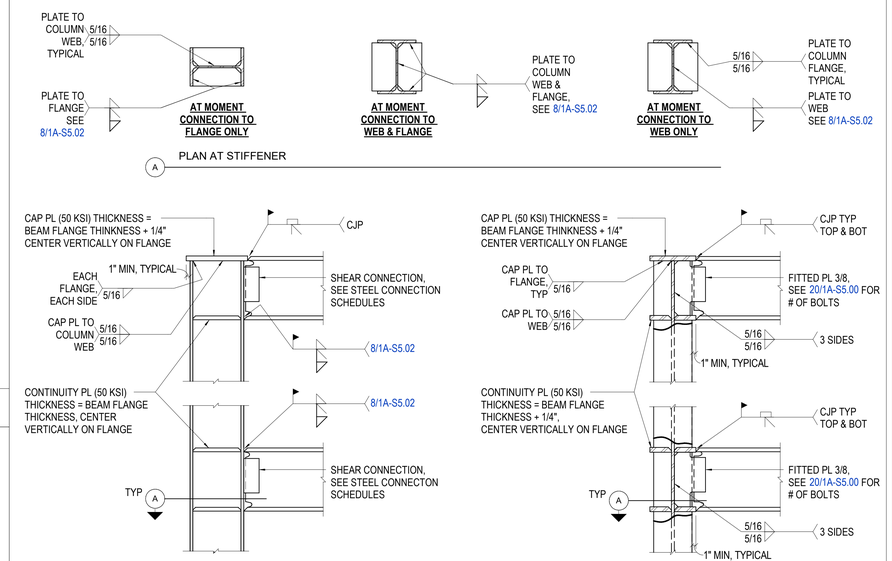
10 NO SCALE LIGHT POLE BASE



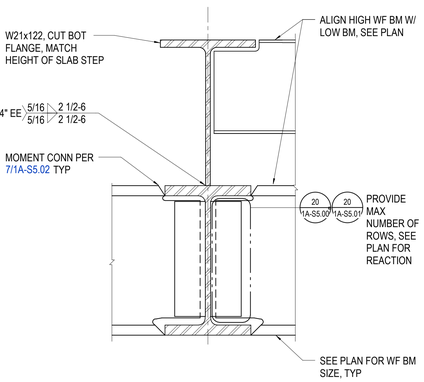
15 NO SCALE FUTURE COLUMN AT LEVEL 1



11 3/4" = 1'-0" TYPICAL FULL HEIGHT SHEAR CONNECTION



7 3/4" = 1'-0" TYPICAL MOMENT CONNECTION



16 1 1/2" = 1'-0" LOW MOMENT CONN

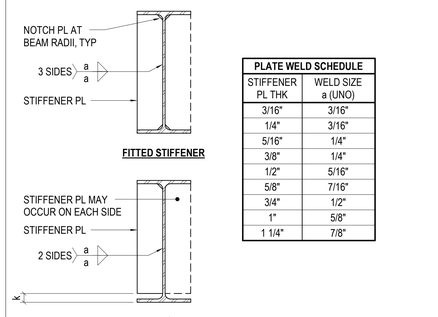
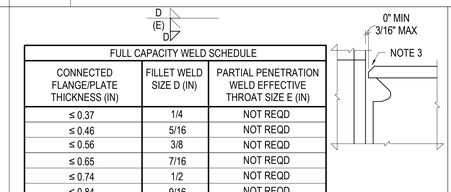


PLATE WELD SCHEDULE	
STIFFENER PL THK	WELD SIZE a (UNO)
3/16"	3/16"
1/4"	3/16"
5/16"	1/4"
3/8"	1/4"
1/2"	5/16"
5/8"	7/16"
3/4"	1/2"
1"	5/8"
1 1/4"	7/8"

NOTES:
1. ACTUAL STIFFENER GEOMETRY VARIES, SEE DETAILS
2. STIFFENER SURFACES THAT CONTACT BEAM FLANGES SHALL BE FINISHED FOR BEARING

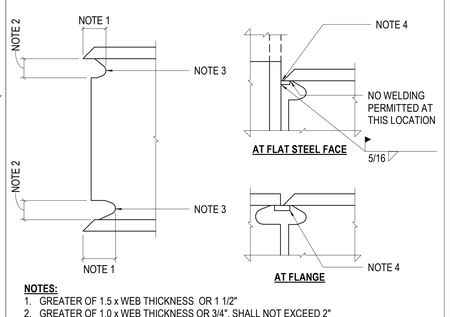
12 1 1/2" = 1'-0" TYPICAL WIDE FLANGE BEAM STIFFENER



FULL CAPACITY WELD SCHEDULE		
CONNECTED FLANGE/PLATE THICKNESS (IN)	FILLET WELD SIZE D (IN)	PARTIAL PENETRATION WELD EFFECTIVE THROAT SIZE E (IN)
≤ 0.37	1/4	NOT REQD
≤ 0.46	5/16	NOT REQD
≤ 0.56	3/8	NOT REQD
≤ 0.65	7/16	NOT REQD
≤ 0.74	1/2	NOT REQD
≤ 0.84	9/16	NOT REQD
≤ 0.93	5/8	NOT REQD
≤ 1	7/16	13/16
≤ 1 1/8	7/16	1
≤ 1 1/4	1/2	1 1/16
≤ 1 3/8	1/2	1 1/4
≤ 1 1/2	9/16	1 5/16
≤ 1 5/8	5/8	1 7/16
> 1 5/8	N/A	CJP (NOTE 2)

NOTES:
1. COMPLETE JOINT PENETRATION WELDS MAY BE USED AS AN ALTERNATE TO FILLET AND BUILT-UP WELDS FOR ANY CONNECTED FLANGE/PLATE THICKNESS.
2. SEE DETAIL 4/1A-S5.02 FOR WELD ACCESS HOLE AND BACKING REQUIREMENTS AT COMPLETE JOINT PENETRATION WELDS.
3. SCHEDULED WELDS SHALL BE INCREASED IN SIZE BY GAP WIDTH FOR GAPS 1/16" AND GREATER.

8 1/2" = 1'-0" TYPICAL FULL CAPACITY WELD SCHEDULE



4 3" = 1'-0" TYPICAL WIDE FLANGE CJP WELD ACCESS AND BACKING

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STATE OF COLORADO REGISTERED 38167 PROFESSIONAL ENGINEER
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Seal / Signature

Date	Description
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1	2021.06.29 BP3: PROMENADE - BULLETIN 02
2	2021.07.30 BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

Description
STEEL DETAILS

Scale
As indicated

1A-S5.02

DESIGNERS: N/C MARTIN
LEAD REVIT TECH: COLIN MOINNES
DATE PRINTED: 7/30/2021 3:09:43 PM
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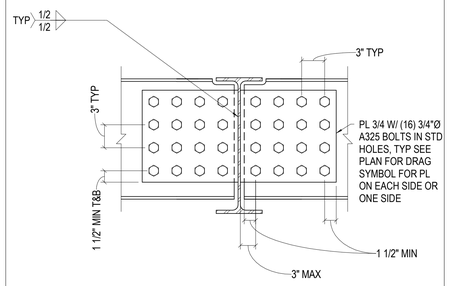
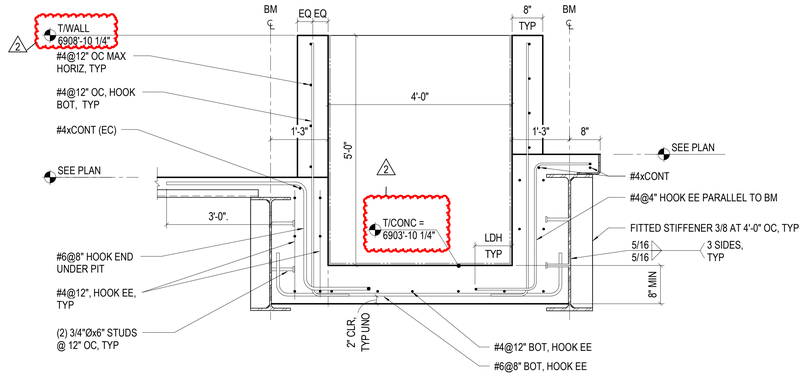
MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



NOTE:
1. DRAG CONNECTIONS INDICATED THUS: ⟵

2

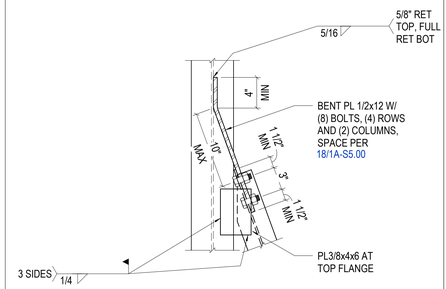
9 1 1/2" = 1'-0" STEEL DRAG CONN



5 3/4" = 1'-0" SNOW MELT PIT SECTION

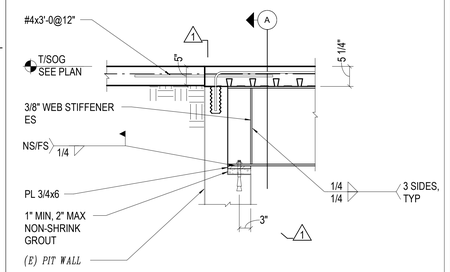
2

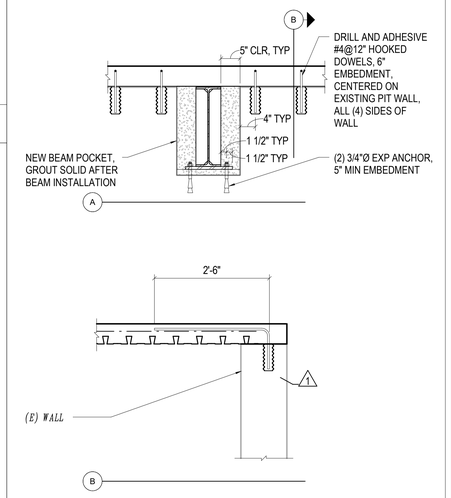
10 1" = 1'-0" LOW BEAM TO GIRDER



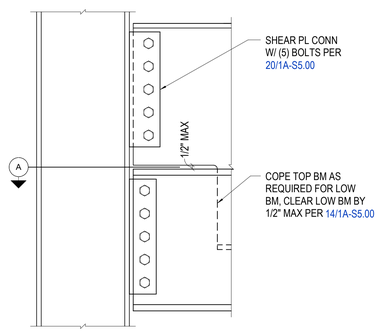
1 RFI021

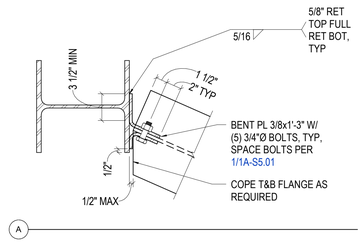
6 1 1/2" = 1'-0" SKEWED BM CONN W/ BENT PL





3 3/4" = 1'-0" NEW STEEL ON EXISTING PIT WALL

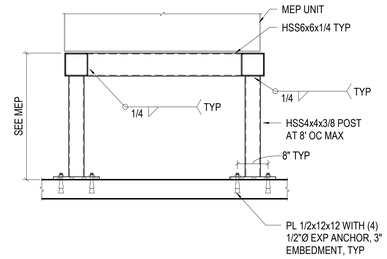




NOTE: SOME BEAMS OMITTED FOR CLARITY

1 RFI021

8 1 1/2" = 1'-0" SKEWED CONN AT COL



4 3/4" = 1'-0" MEP SUPPORT

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

COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

Seal / Signature

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.06.29	BP3: PROMENADE - BULLETIN 02
2	2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

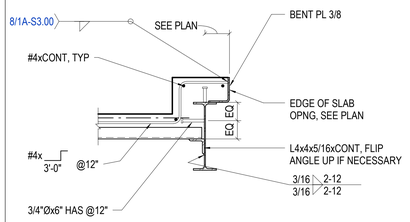
Description
STEEL DETAILS

Scale
As indicated

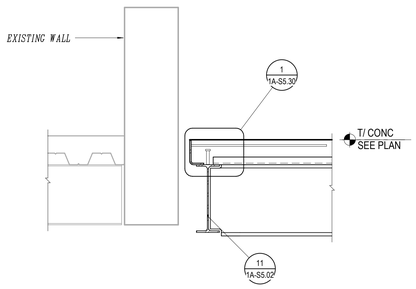
1A-S5.03

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:7/30/2021 3:09:44 PM
FILE PATH:\BM-SBO\1903\1903.000 - Steamboat Riders\03 1903.000_Structural_SBR_Promenade Building 2021_V2021.rvt

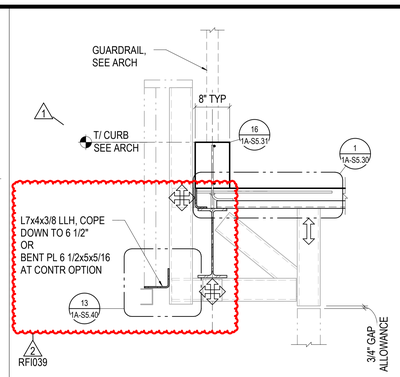
MM JOB #: 20.1411.S.01
PRINCIPAL:KELLY KNOWLES
FOR:KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



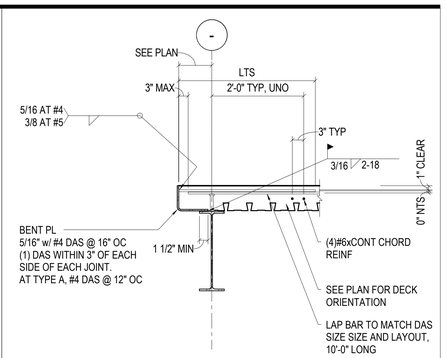
13 3/4" = 1'-0" SLAB STEP AT OPNG - DECK PERP



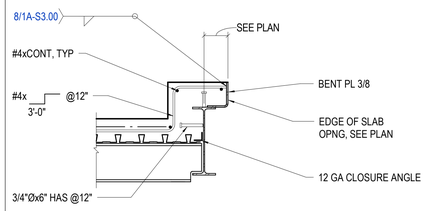
9 3/4" = 1'-0" EXTERIOR SLAB EDGE AT CANTLIEVERED FLOOR



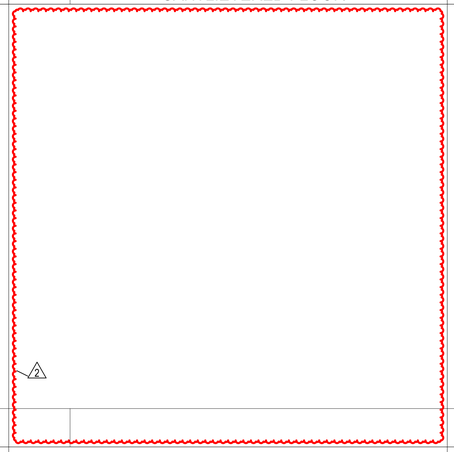
5 3/4" = 1'-0" EXTERIOR SLAB EDGE GUARD RAIL

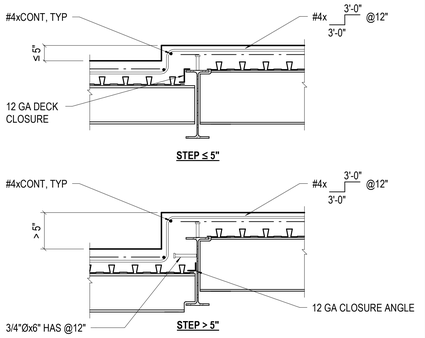


1 3/4" = 1'-0" TYPICAL EXTERIOR SLAB EDGE

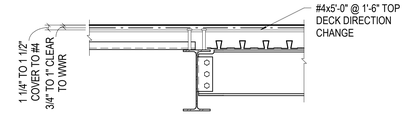


14 3/4" = 1'-0" SLAB STEP AT OPNG - DECK PARALLEL

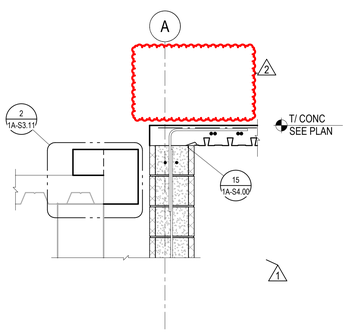




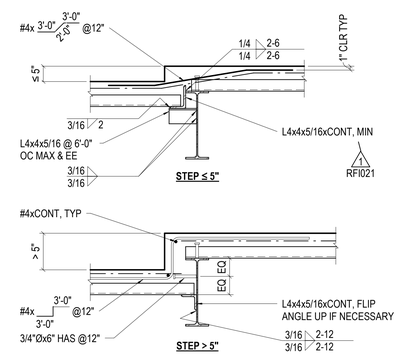
6 3/4" = 1'-0" TYP SLAB STEP - DECK PARALLEL



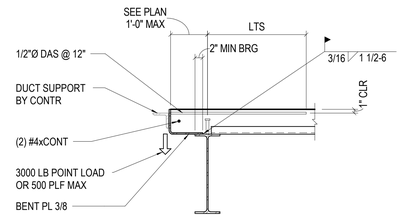
2 3/4" = 1'-0" TYIPCAL CHANGE IN COMPOSITE DECK DIRECTION



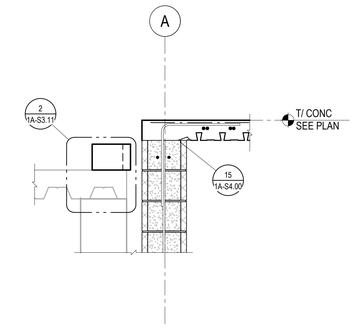
11 3/4" = 1'-0" EXTERIOR SLAB EDGE - LEVEL 1 SLAB



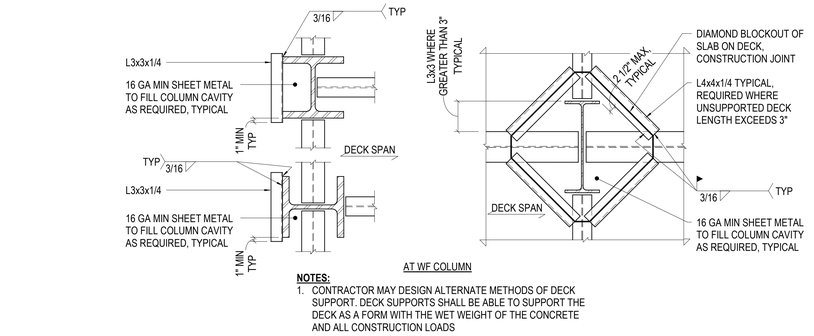
7 3/4" = 1'-0" TYP SLAB STEP - DECK PERP



3 3/4" = 1'-0" MECHANICAL SHAFT COMPOSITE SLAB EDGE



12 3/4" = 1'-0" EXTERIOR SLAB EDGE - LEVEL 1 SLAB - EAST END



NOTES:
1. CONTRACTOR MAY DESIGN ALTERNATE METHODS OF DECK SUPPORT. DECK SUPPORTS SHALL BE ABLE TO SUPPORT THE DECK AS A FORM WITH THE WET WEIGHT OF THE CONCRETE AND ALL CONSTRUCTION LOADS

8 3/4" = 1'-0" TYPICAL METAL DECK SUPPORT AT FUTURE COLUMN

Steamboat
ALTERRA MOUNTAIN COMPANY east west partners

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler
1225 17th Street
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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

STATE OF COLORADO REGISTERED 38167 PROFESSIONAL ENGINEER

July 30, 2021

Seal / Signature

Date	Description
-	2021.05.19 BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.06.29 BP3: PROMENADE - BULLETIN 02
2	2021.07.30 BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

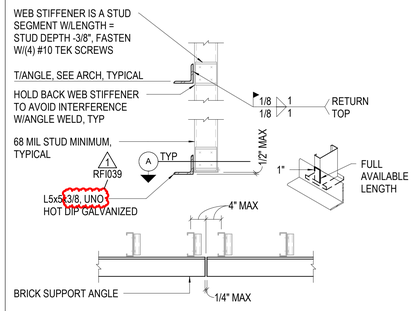
Description
TYPICAL COMPOSITE SLAB DETAILS

Scale
3/4" = 1'-0"

1A-S5.30

DESIGNERS: NIC MARTIN
LEAD REVIT TECH:COLIN MONNES
DATE PRINTED:7/30/2021 3:09:45 PM
FILE PATH: I:\BM_BIM\0003 TBDL\000 - Steamboat Redev\03 TBDL000_Structural_SSRC_Promenade Building 2021_V2021.rvt

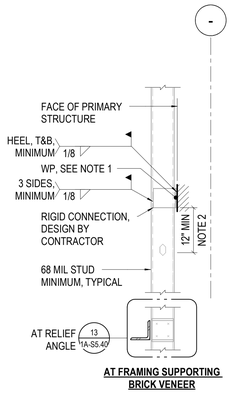
MM JOB #: 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
EOR:KELLY KNOWLES
PROJECT MANAGER: C.A. CHEN



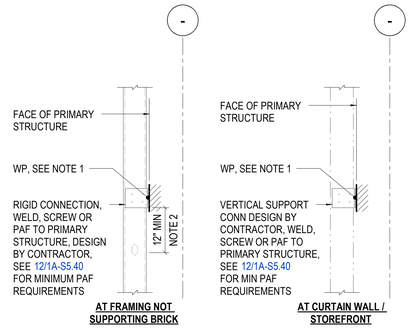
NOTES:
1. SPLICE SUPPORT ANGLE AT EACH BRICK CONTROL JOINT, 30'-0" OC MAXIMUM

A AT SUPPORT ANGLE SPLICE

13 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - STONE SUPPORT TO MTL STUD

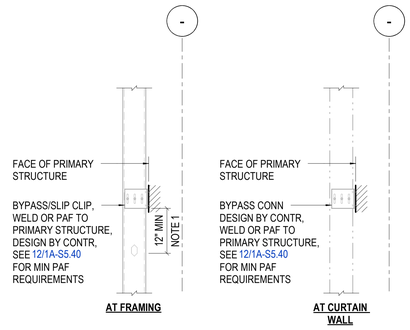


AT FRAMING SUPPORTING BRICK VENEER



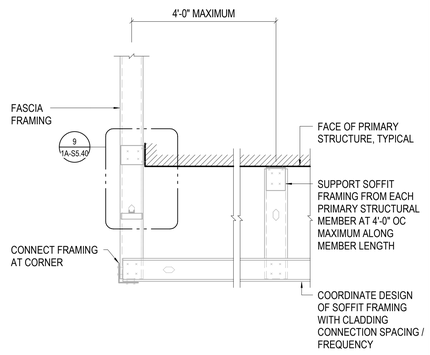
NOTES:
1. DESIGN CONNECTION TO DELIVER VERTICAL SHEAR AND HORIZONTAL AXIAL FORCE AT WORKPOINT, DO NOT IMPOSE MOMENT ON PRIMARY STRUCTURE
2. SEE DETAIL 15/1A-S5.40 IF MINIMUM DIMENSION CAN NOT BE ACHIEVED

9 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - FIXED CONNECTION MINIMUM REQUIREMENTS

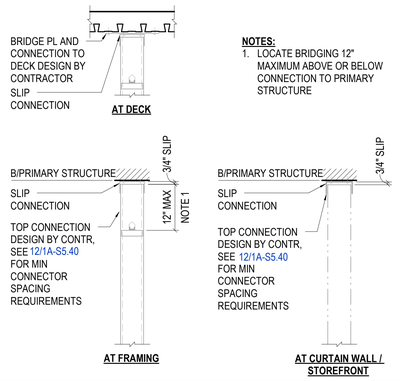


NOTES:
1. SEE DETAIL 15/1A-S5.40 IF MINIMUM DIMENSION CANNOT BE ACHIEVED

14 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - SLIP CONN MIN REQUIREMENTS

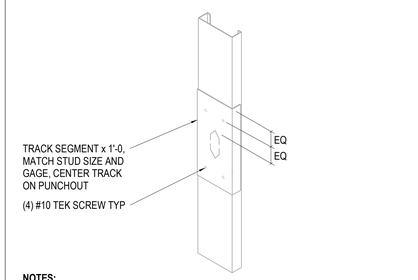


10 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - SOFFIT FRAMING MIN REQT(s)



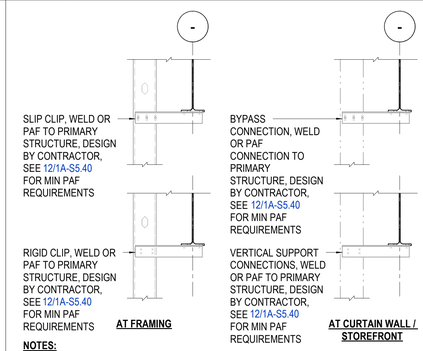
NOTES:
1. LOCATE BRIDGING 12" MAXIMUM ABOVE OR BELOW CONNECTION TO PRIMARY STRUCTURE

6 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - FRAM TO B/PRIMARY STRUCTURE



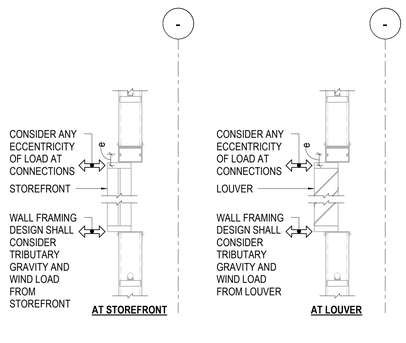
NOTES:
1. REINFORCING REQUIRED WHEN PUNCHOUT LOCATION SPECIFIED IN OTHER DETAILS CANNOT BE ACHIEVED
2. PUNCHOUT REINFORCING INDICATED IS A MINIMUM, FINAL REINFORCING SHALL BE DESIGNED BY CONTRACTOR

15 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - PUNCHOUT REINFORCING

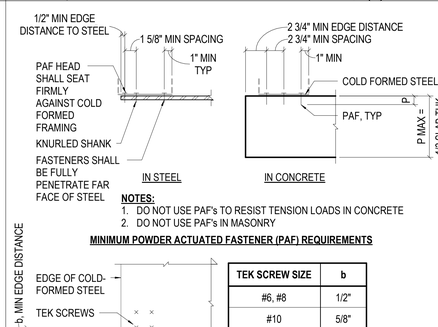


NOTES:
1. SEE DETAILS FOR ALLOWABLE CONNECTION FORCES TO PRIMARY STRUCTURAL FRAMING
2. DO NOT CONNECT TO BOTTOM FLANGE OF BEAM UNLESS SPECIFICALLY INDICATED IN DETAILS

11 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - CONN TO B/FLANGE REQT(s)

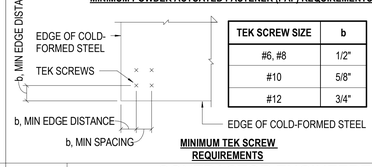


7 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - STOREFRONT/LOUVER TO FRAMING



NOTES:
1. DO NOT USE PAF's TO RESIST TENSION LOADS IN CONCRETE
2. DO NOT USE PAF's IN MASONRY

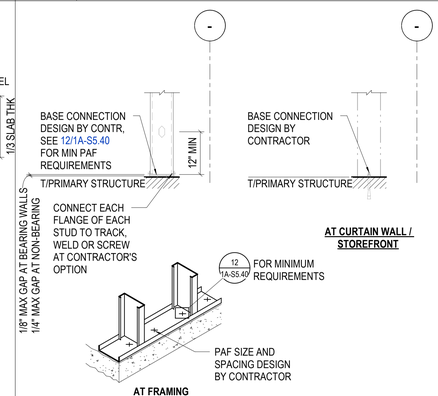
MINIMUM POWDER ACTUATED FASTENER (PAF) REQUIREMENTS



TEK SCREW SIZE	b
#6, #8	1/2"
#10	5/8"
#12	3/4"

MINIMUM TEK SCREW REQUIREMENTS

12 1 1/2" = 1'-0" CONTRACTOR ENGINEERED WALL - FASTENER MINIMUM REQT(s)



8 3/4" = 1'-0" CONTRACTOR ENGINEERED WALL - BASE CONN MIN REQUIREMENTS

DESIGN CRITERIA FOR PERFORMANCE SPECIFIED COLD FORMED STEEL FRAMING (CFSF)

1) GENERAL COLD FORMED STEEL FRAMING REQUIREMENTS

1A) COLD FORMED STEEL FRAMING (CFSF) USED FOR EXTERIOR CLADDING SUPPORT IS A PERFORMANCE SPECIFIED SYSTEM DESIGNED (ENGINEERED) AND PROVIDED BY THE CONTRACTOR

1B) THE CONTRACTOR SHALL DESIGN ALL MEMBERS AND CONNECTIONS FORMING A COMPLETE SYSTEM FOR THE CLADDING SELF WEIGHT, WIND AND SEISMIC FORCES INDICATED IN THE DESIGN CRITERIA SECTION AND AS INDICATED IN THE STRUCTURAL DOCUMENTS

1C) INFORMATION PERTAINING TO THE FRAMING IS SHOWN THROUGHOUT THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS AND IN THE SPECIFICATIONS. CONTRACTOR SHALL REFERENCE AND COORDINATE FRAMING WITH ALL TRADES AND DESIGN DOCUMENTS

1D) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING PROFESSIONAL ENGINEERING AND SUBMITTAL REQUIREMENTS

1E) VARIATIONS PROPOSED BY THE CONTRACTOR TO ACCOMMODATE PREFABRICATION AND ALTERNATE SCHEMES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PREPARING DRAWINGS AND ENGINEERING OF THE COLD FORMED STEEL FRAMING.

2) BIDDING REQUIREMENTS

2A) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A BID THAT INCLUDES ALL ITEMS ASSOCIATED WITH THE DESIGN AND CONSTRUCTION OF THE EXTERIOR WALL AND SOFFIT FRAMING, INCLUDING BUT NOT LIMITED TO:
- DESIGN OF THE FRAMING MEMBERS (STUDS, SILLS, HEADERS, JAMBS, SOFFITS, HANGERS & KICKERS, ETC.)
- CONNECTION DESIGN: BOTH FRAMING-TO-FRAMING CONNECTIONS AND CONNECTIONS BETWEEN FRAMING AND THE PRIMARY STRUCTURAL FRAME
- COORDINATION AND INSTALLATION OF ALL FRAMING

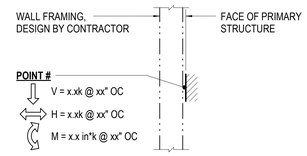
2B) BIDS SHALL BE BASED ON CONTRACTOR'S ENGINEERED SIZES TO RESIST THE DESIGN FORCES AND MEET THE MINIMUM REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS
- DO NOT BASE BIDS SOLELY ON THE MINIMUM REQUIREMENTS

2C) FRAMING MEMBERS DEPTHS SHALL BE AS NOTED ON ARCHITECTURAL DOCUMENTS, UNLESS NOTED OTHERWISE

2D) VARY MEMBER THICKNESS, FLANGE WIDTH, YIELD STRESS, AND SPACING AS REQUIRED TO SATISFY:
- INDICATED PERFORMANCE CRITERIA
- MINIMUM STRUCTURAL REQUIREMENTS INDICATED IN THE SPECIFICATIONS AND STRUCTURAL DETAILS

3) ENGINEERING REQUIREMENTS

3A) GENERAL:
- FRAMING MEMBERS SHALL BE AS NOTED ON THE ARCHITECTURAL DOCUMENTS, UNLESS NOTED OTHERWISE
- FRAMING MEMBERS SHALL DELIVER MAXIMUM FORCES TO THE PRIMARY STRUCTURAL FRAME AT THE LOCATIONS, DIRECTIONS, AND MAGNITUDES NOTED IN STRUCTURAL DETAILS THUS:



- DO NOT CONNECT FRAMING TO THE PRIMARY STRUCTURAL FRAMING AT LOCATIONS OR IN WAYS NOT SPECIFICALLY INDICATED IN THE DETAILS
- ALL CONNECTIONS TO PRIMARY STRUCTURE SHALL BE DESIGNED AS PINNED CONNECTIONS. DO NOT DELIVER MOMENT TO PRIMARY STRUCTURE UNLESS SPECIFICALLY INDICATED.
- DO NOT CONNECT FRAMING TO THE BOTTOM FLANGE OF BEAMS UNLESS SPECIFICALLY INDICATED IN STRUCTURAL DETAILS

3B) GC / COLD FORMED STEEL FRAMING DESIGNER / CLADDING DESIGNER COORDINATION:
- COLD FORMED STEEL FRAMING MEMBERS AND FRAMING ATTACHMENT SHALL BE DESIGNED FOR THE TRIBUTARY LOADING AT THE FRAMING SPACING INDICATED ON THE CONTRACT DOCUMENTS
- CLADDING SUPPLIER SHALL DESIGN CLADDING TO DISTRIBUTE LOAD UNIFORMLY TO AND ATTACH TO EACH FRAMING MEMBER.
- CLADDING ATTACHMENT SPACING WHICH DOES NOT EQUALLY DISTRIBUTE LOAD TO EACH STEEL FRAMING MEMBER IS NOT ACCEPTABLE WITHOUT APPROVAL FROM THE STEEL FRAMING SUPPLIER / DESIGNER AND THE PROJECT ENGINEER OF RECORD (EOR)
- IF THE CLADDING SUPPLIER DOES NOT AND / OR CANNOT UNIFORMLY LOAD / ATTACH TO EACH STEEL FRAMING MEMBER, THE LOADS FROM THE CLADDING SUPPLIER MUST BE PROVIDED TO THE FRAMING SUPPLIER. THE STEEL FRAMING SUPPLIER WILL NEED TO INCORPORATE THESE INCREASED LOADS INTO THE FRAMING DESIGN.
- GC SHALL COORDINATE BETWEEN COLD FORMED STEEL FRAMING SUPPLIER AND CLADDING SUPPLIER AS REQUIRED.

3C) LOADS:
- WIND LOADS GIVEN IN THESE DOCUMENTS ARE BASED ON A COMPONENT AND CLADDING TRIBUTARY AREA OF 10 SQUARE FEET. REDUCTION IN LOADS BASED ON TRIBUTARY AREA ARE ALLOWED AS PERMITTED IN THE GOVERNING BUILDING CODE.
- CALCULATE AND APPLY TO COLD FORMED STEEL FRAMING HEADERS, SILLS & JAMBS CUMULATIVE LINE AND CONCENTRATED TRIBUTARY LOADS FROM CLADDING DEAD LOAD AND WIND PRESSURES ON WINDOWS, LOUVERS, DOORS, CURTAIN WALL, AND OTHER OPENINGS
- COORDINATE MULLION AND JAMB LOCATIONS WITH THE GENERAL CONTRACTOR
- CONTRACTOR SHALL ACCOUNT FOR LOCALIZED LOADS AND MOMENTS DUE TO ECCENTRICALLY APPLIED LOADS SUCH AS SLIP CONNECTIONS AND WINDOW HEAD TRACKS

3D) PRIMARY FRAME DEFLECTIONS: PROVIDE VERTICAL SLIP CONNECTIONS AND DEFLECTION TRACKS AS NEEDED TO ACCOMMODATE VERTICAL DEFLECTIONS OF THE PRIMARY STRUCTURAL FRAMING. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING ALLOWANCES FOR VERTICAL DEFLECTION OF THE PRIMARY STRUCTURAL FRAMING:
- AT EXTERIOR / SPANDREL INFILL FRAMING: 3/4"
- AT EXTERIOR / SPANDREL BYPASS FRAMING: 3/4"
- AT INTERIOR FRAMING: GREATER OF L/240 OR 3/4"

3E) VERTICAL DEFLECTION CRITERIA: DESIGN COLD FORMED METAL FRAMING HEADERS TO MEET THE FOLLOWING VERTICAL DEFLECTION CRITERIA:
- FOR STUDS SUPPORTING MASONRY VENEER = SPAN / 600
- FOR STUDS SUPPORTING STUCCO = SPAN / 240
- FOR STUDS SUPPORTING THIN SET ADHERED VENEER = SPAN / 360
- FOR STUDS SUPPORTING METAL PANELS = SPAN / 240
- FOR STUDS SUPPORTING OTHER = SPAN / 240

3F) HORIZONTAL DEFLECTION CRITERIA: DESIGN COLD FORMED METAL FRAMING MEMBERS TO MEET THE FOLLOWING HORIZONTAL DEFLECTION CRITERIA:
- FOR STUDS BACKING-UP MASONRY VENEER = SPAN / 600
- FOR STUDS BACKING-UP STUCCO OR THIN SET ADHERED VENEER = SPAN / 360
- FOR STUDS BACKING-UP METAL PANELS = SPAN / 240
- FOR STUDS BACKING-UP OTHER = SPAN / 240
- PER IBC TABLE 1604.3 FOOTNOTE F, WIND LOAD IS PERMITTED TO BE TAKEN AS 0.42 TIMES THE COMPONENT AND CLADDING ULTIMATE LOADS FOR THE PURPOSE OF DETERMINING DEFLECTION LIMITS.

4) CONSTRUCTION REQUIREMENTS

4A) CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS SHOWN ON THE CONTRACT DOCUMENTS, INCLUDING DETAILS THROUGHOUT THE STRUCTURAL DOCUMENTS AND MINIMUM REQUIREMENTS INDICATED IN DETAILS ON THIS SHEET
- SEE DETAILS THIS SHEET INDICATING ADDITIONAL MINIMUM CFSF CRITERIA

4B) REQUIRED SITE VISITS
- THE CONTRACTOR'S COLD FORMED STEEL FRAMING ENGINEER SHALL MAKE SITE VISITS AS APPROPRIATE (1 MINIMUM) TO OBSERVE THE INSTALLATION OF THE COLD FORMED METAL FRAMING

4C) MINIMUM STUD GAGES: MINIMUM STUD THICKNESS BASED ON THE ATTACHMENT OF CLADDING MATERIAL IS GIVEN IN THE FOLLOWING TABLE:

MATERIAL ATTACHED TO STUDS	MIN. MIL THICKNESS	MAX. STUD SPACING
WELDED MASONRY VENEER LEDGE	68	16" OC
MASONRY VENEER BACKUP	43	16" OC
ALL OTHERS	33	24" OC

4D) ADDITIONAL CRITERIA FOR CFSF:
- PROVIDE HORIZONTAL STUD BRIDGING AS REQUIRED TO BRACE FRAMING, MINIMUM OF (1) ROW AT MID-HEIGHT
- PROVIDE (1) STUD EACH SIDE OF MASONRY CONTROL JOINTS
- COLD FORMED STEEL TRACK THICKNESS SHALL BE EQUAL TO OR GREATER THAN THE CONNECTED WALL STUD THICKNESS
- ALL CONNECTIONS SHALL USE PREFABRICATED FRAMING CONNECTORS (CLIPS). DO NOT SITE / FIELD FABRICATE CONNECTORS FROM TRACKS OR STUDS UNLESS SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS
- DO NOT USE PAF's TO RESIST TENSION LOADS IN CONCRETE
- DO NOT USE PAF's IN MASONRY
- DO NOT NOTCH, DRILL OR OTHERWISE MODIFY FRAMING WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER AND EOR

4 3/4" = 1'-0" CONTR ENGINEERED WALL - NOTES /REQUIRED DESIGN CRITERIA

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COLORADO REGISTERED 38107 PROFESSIONAL ENGINEER
July 30, 2021

Seal / Signature

Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1 2021.07.30	BP3: PROMENADE - BULLETIN 07

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
20.1411.S.01

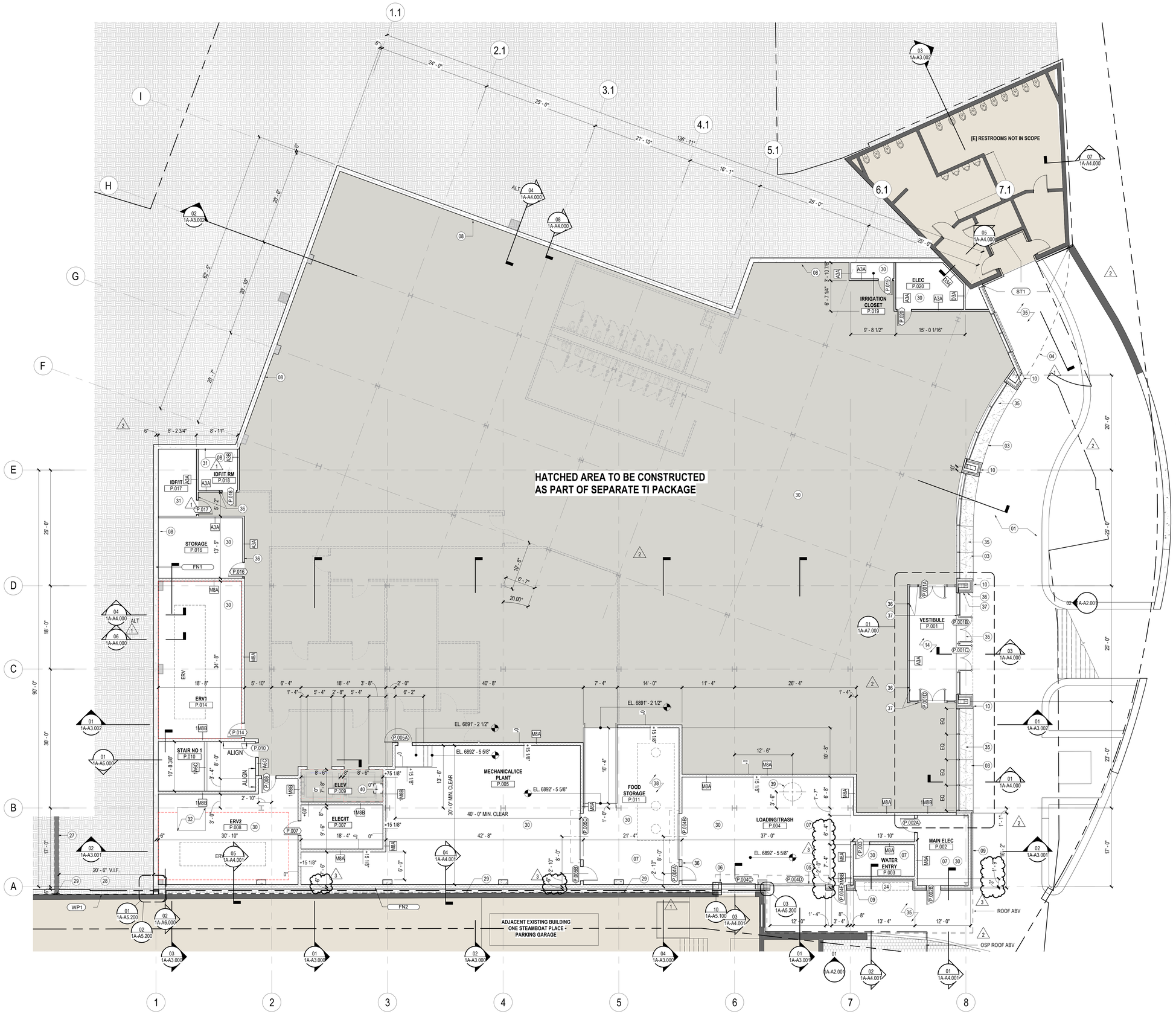
Description
PERFORMANCE SPECIFIED FRAMING

Scale
As indicated

1A-S5.40

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

DESIGNERS: NC MARTIN
LEAD REVIT TECH: COLIN MONNES
DATE PRINTED: 7/30/2021 3:09:49 PM
FILE PATH: 888.0800\7800\7830.000 - Steamboat Rodeo\03.7830.000_Structural_SBR_Promenade Building 2021_V2021.rvt



01 CONSTRUCTION PLAN - LOWER LEVEL 00 PROMENADE

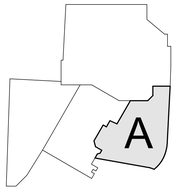
SCALE: 1/8" = 1'-0"

SHEET NOTES

01 REDEVELOPED OUTDOOR PATIO ADJACENT TO ENTRANCE, RE: CIVIL & LANDSCAPE PLANS
02 MT01 ACCENT PANEL AT ENTRY OVERHANG, RE: ELEVATION/3D VIEWS
03 ST2 @ WINDOW SILL LOCATION
04 EXTENT OF SOFFIT OVERHANG ABOVE
05 PT2 FIRE RATED ROLLUP OVERHEAD DOOR FOR SERVICE
ACCESS TO PROMENADE
06 PT2 FIRE RATED ROLLUP OVERHEAD DOOR ALIGNED TO
EXISTING SERVICE ACCESS DOOR @ ADJACENT EXISTING BUILDING [ONE STEAMBOAT PLACE] TO PROVIDE SERVICE FUNCTION BETWEEN BUILDINGS
07 BOH FFE TO MATCH EXISTING EXTERIOR GRADING
FOR SERVICE TO EXTERIOR. BOH FFE TO RAMP TO
DESIGNATED PUBLIC FFE IN FOOD STORAGE ROOM. RE: GRADING PLAN FOR EXTERIOR ELEVATIONS
08 SUBGRADE CONCRETE RETAINING WALL @ UNDER
PLAZA LEVEL CONDITION W/ 2 1/2" MTL STUD AND 5/8" GWB FINISH @ ALL OCCUPIED LOCATIONS
09 ST01 STONE WALL @ EXPOSED EXTERIOR ELEVATIONS
10 ST-01 CLAD COLUMNS @ EAST ELEVATION
14 RECESSED WALK OFF MAT FLUSH TO T.O. FINISH
18 PASSENGER ELEVATOR, BASIS OF DESIGN SCHINDLER 3100 LOW-RISE, LOAD CAPACITY 3,000
LB. 3 STOPS WITH 3 FRONT OPENINGS; DOOR WIDTH 42", DOOR HEIGHT 84", SPEED 100 FPM, STANDARD CAB FINISHES
24 GAS METER, RE: MECHANICAL
27 EXISTING RETAINING WALL TO BE DEMOLISHED, RE: BP2A
28 NEW FILL AGAINST EXISTING OSP EXTERIOR WALL, RE: CIVIL
29 APPLY WP1 TO THE FULL EXTENT OF OSP WALL, TIE WP1 INTO EXISTING BELOW GRADE OSP WP, GC TO FIELD VERIFY EXTENT OF EXISTING OSP WP
30 ALL WALLS TO BE PAINTED WHITE, INSTALL 4" GRAY RUBBER BASE, FLOORS TO BE POLISHED CONCRETE, AND CEILING OPEN TO STRUCTURE ABOVE
31 ALL WALLS TO BE PAINTED WHITE, INSTALL 4" GRAY RUBBER BASE, FLOORS TO BE STATIC DISSIPATIVE RUBBER TILE, AND CEILING OPEN TO STRUCTURE ABOVE
32 PREFABRICATED METAL PLATFORM OVER MECHANICAL DUCT FOR MAINTENANCE ACCESS
35 GYP BOARD SOFFIT ABOVE, SKIM COAT AND PAINT PT3
36 CARD READER
37 ADA PUSH PLATE
38 GREASE INTERCEPTER, RE: PLUMBING
39 SUMP PIT FOR UNDERSLAB DRAINAGE SYSTEM
40 SUMP PUMP RE: PLUMBING, SLOPE PIT 2% TO DRAIN

GENERAL NOTES

KEY PLAN



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2	2021.07.22	BP3: PROMENADE - BULLETIN 05
3	2021.07.30	BP3: PROMENADE - BULLETIN 07

Seal / Signature

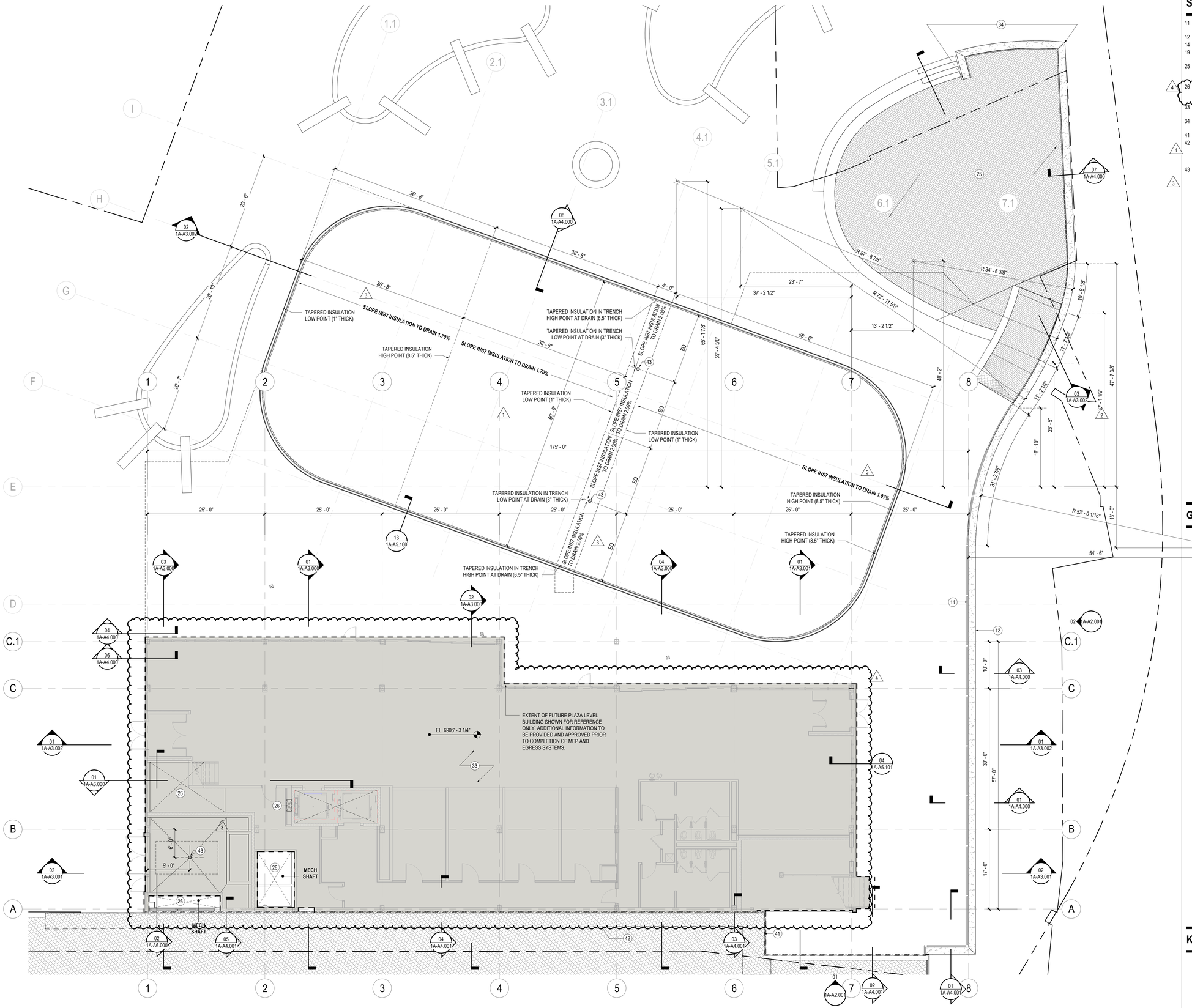
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - CONSTRUCTION PLAN - LEVEL 00

Scale
1/8" = 1'-0"
Ref North

1A-A1.200



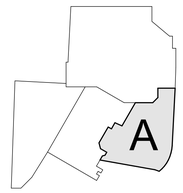
01 CONSTRUCTION PLAN - LEVEL 01 PLAZA
SCALE: 1/8" = 1'-0"

SHEET NOTES

11 GR-1 GUARDRAIL SYSTEM SET BACK 16" FROM F.O. ST-01 FASCIA.
12 F.O. ST-01 FASCIA BELOW,
14 RECESSED WALK OFF MAT FLUSH TO T.O. FINISH
19 SEE SHEET G8.01 FOR DOOR 101A SPECIFICATIONS
25 EXISTING SNOW MELT TOPPING SLAB TO BE DEMOLISHED AND REPLACED WITH SNOW MELT PAVER SYSTEM. RE: LANDSCAPE
26 OPENING IN SLAB FOR SHAFT CONNECTION TO FUTURE PLAZA BUILDING. RE: 1A-A1.201S FOR DIMENSIONS
33 GC TO PROVIDE TEMPORARY MEMBRANE AND SLOPE TO DRAIN AT EXPOSED SLAB
34 ST1, ST2, AND GR1 WRAP AROUND STAGE. PRVIDE ST1 ON BOTHS SIDES OF WALL
41 EXTENT OF 3" EXPANSION JOINT
42 EXTENT OF NEW PAVERS TO MATCH EXISTING. GC TO VERIFY EXTENT OF DEMO/ REPLACEMENT FOR PATCH/ REPAIR OF EXISTING SNOW MELT SYSTEM
43 FLOOR DRAIN, RE: PLUMBING

GENERAL NOTES

KEY PLAN



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△	Date	Description
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1	2021.06.29	BP3: PROMENADE - BULLETIN 02
2	2021.07.23	BP3: RFI-051
3	2021.07.29	BP3: RFI-043
4	2021.07.30	BP3: PROMENADE - BULLETIN 07

Seal / Signature

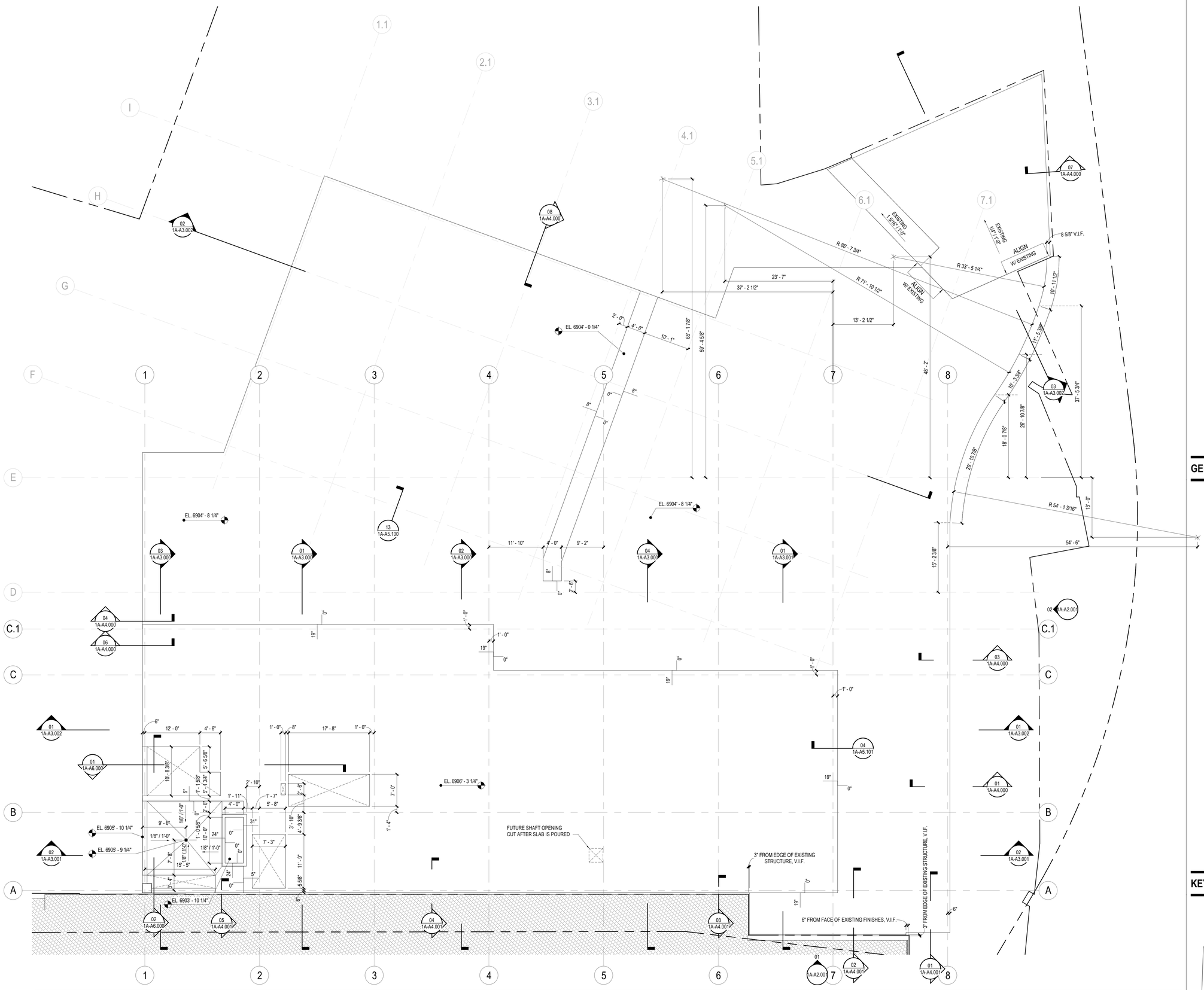
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - CONSTRUCTION PLAN - LEVEL 01

Scale
1/8" = 1'-0"
Ref North

1A-A1.201

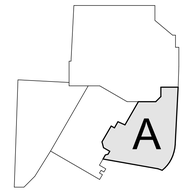


01 CONSTRUCTION PLAN - LEVEL 01 PLAZA (SLAB PLAN)
SCALE: 1/8" = 1'-0"

SHEET NOTES

GENERAL NOTES

KEY PLAN



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△	Date	Description
1	2021.07.30	BP3: PROMENADE - BULLETIN 07

Seal / Signature

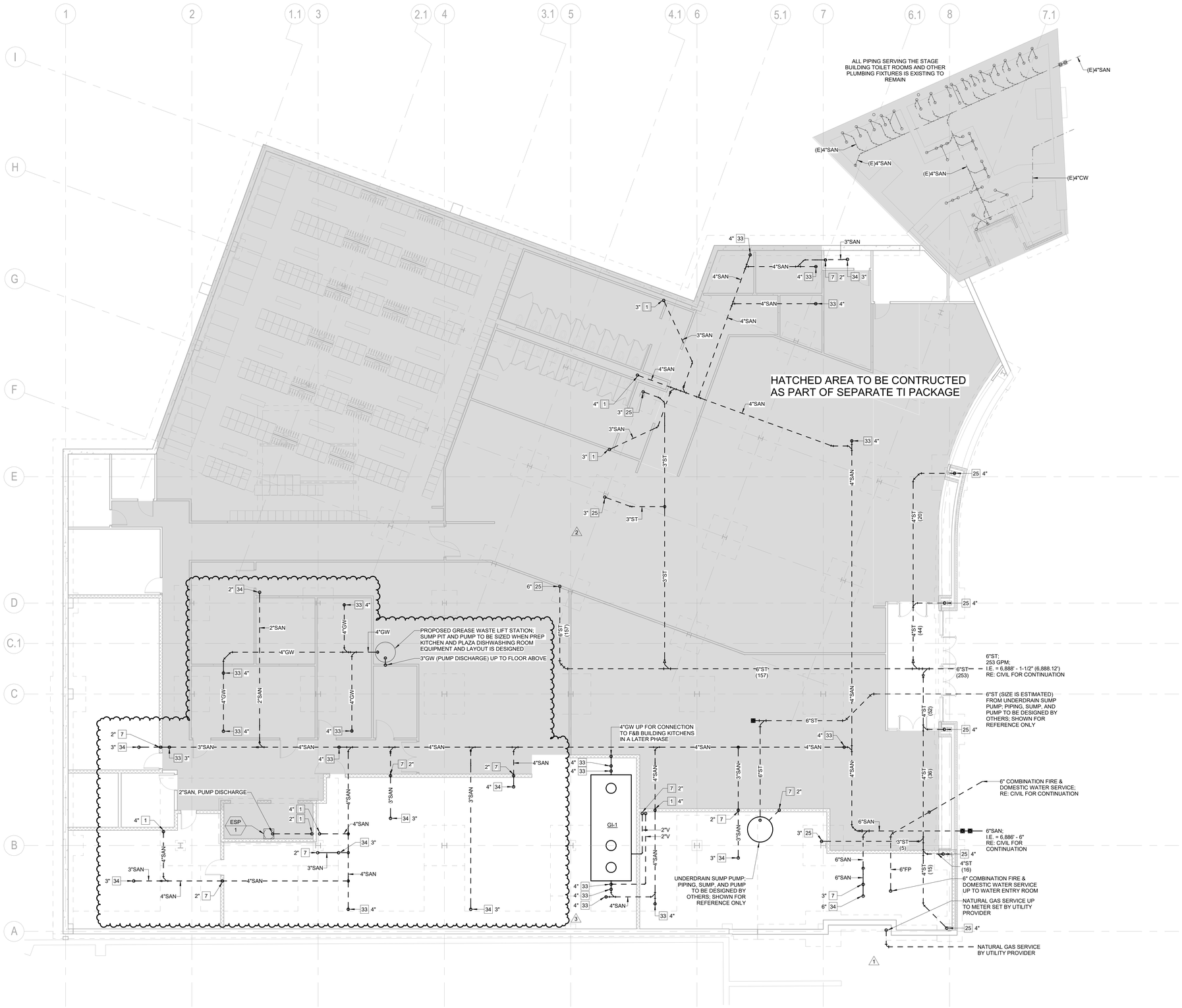
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - CONSTRUCTION PLAN - LEVEL 01 SLAB PLAN

Scale
1/8" = 1'-0"
Ref North

1A-A1.201S 1



1 PLUMBING UNDERGROUND PLAN - LOWER LEVEL 00 PROMENADE

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

GENERAL NOTES:

1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.

2.PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.

3. ALL PIPING INSTALLED FOR FUTURE CONNECTION SHALL BE STUBBED UP MINIMUM +16" FOR FUTURE EXTENSION.

4. ALL INVERT ELEVATIONS (IE) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.

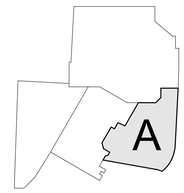
5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:

(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

1	SANITARY PIPING UP
2	SANITARY PIPING DN
3	SANITARY PIPING UP & DN
4	GW PIPING UP
5	GW PIPING DN
6	GW PIPING UP & DN
7	SANITARY VENT UP
8	SANITARY VENT DN
9	SANITARY VENT UP & DN
10	CW PIPING UP
11	CW PIPING DN
12	CW PIPING UP & DN
13	HW PIPING UP
14	HW PIPING DN
15	HW PIPING UP & DN
16	HWC PIPING UP
17	HWC PIPING DN
18	HWC PIPING UP & DN
19	CW & HW PIPING UP
20	CW & HW PIPING DN
21	CW & HW PIPING UP & DN
22	GAS PIPING UP
23	GAS PIPING DN
24	GAS PIPING UP & DN
25	STORM PIPING UP
26	STORM PIPING DN
27	STORM PIPING UP & DN
28	OVERFLOW PIPING UP
29	OVERFLOW PIPING DN
30	OVERFLOW PIPING UP &DN
31	OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12" AFG
32	SANITARY PIPING UP TO PLUMBING FIXTURES
33	PIPING UP TO CLEANOUT
34	PIPING UP TO DRAIN

KEY PLAN



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2	2021.07.19	RFI-043
3	2021.07.30	BP3:PROMENADE - BULLETIN 07

Seal / Signature

COLORADO LICENSED MAHEEN E. EDWARDS 56806 PROFESSIONAL ENGINEER

7/30/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

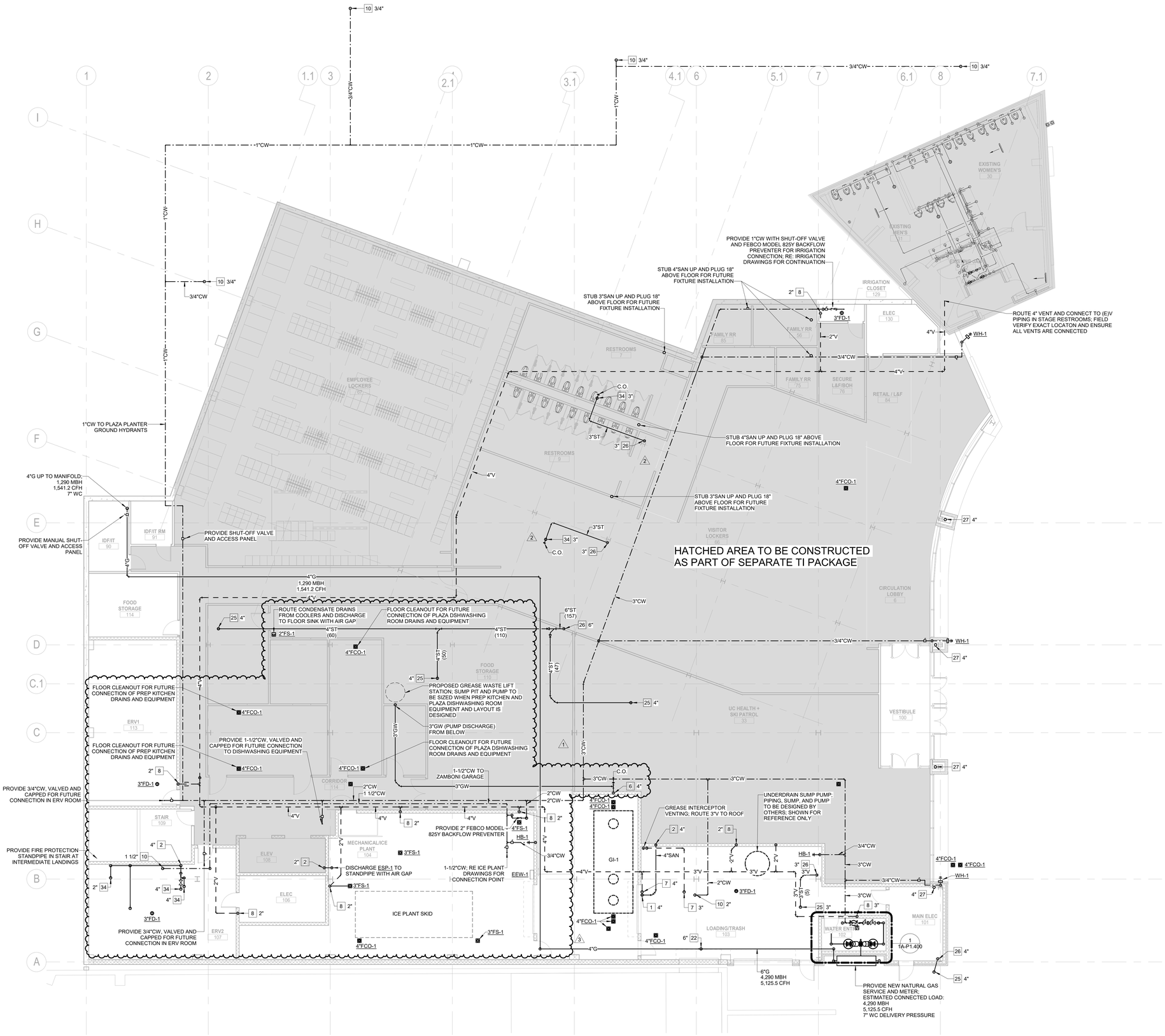
Description

PROMENADE - PLUMBING UNDERGROUND PLAN - LEVEL 00

Scale

1/8" = 1'-0"

1A-P1.199



GENERAL NOTES:

1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.

2.PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.

3. ALL PIPING INSTALLED FOR FUTURE CONNECTION SHALL BE STUBBED UP MINIMUM +18" FOR FUTURE EXTENSION.

4. ALL INVERT ELEVATIONS (IE) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.

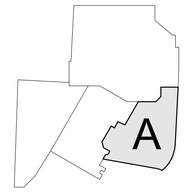
5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:

(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

1 SANITARY PIPING UP
2 SANITARY PIPING DN
3 SANITARY PIPING UP & DN
4 GW PIPING UP
5 GW PIPING DN
6 GW PIPING UP & DN
7 SANITARY VENT UP
8 SANITARY VENT DN
9 SANITARY VENT UP & DN
10 CW PIPING UP
11 CW PIPING DN
12 CW PIPING UP & DN
13 HW PIPING UP
14 HW PIPING DN
15 HW PIPING UP & DN
16 HWC PIPING UP
17 HWC PIPING DN
18 HWC PIPING UP & DN
19 CW & HW PIPING UP
20 CW & HW PIPING DN
21 CW & HW PIPING UP & DN
22 GAS PIPING UP
23 GAS PIPING DN
24 GAS PIPING UP & DN
25 STORM PIPING UP
26 STORM PIPING DN
27 STORM PIPING UP & DN
28 OVERFLOW PIPING UP
29 OVERFLOW PIPING DN
30 OVERFLOW PIPING UP &DN
31 OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12" AFG
32 SANITARY PIPING UP TO PLUMBING FIXTURES
33 PIPING UP TO CLEANOUT
34 PIPING UP TO DRAIN

KEY PLAN



1 PLUMBING PLAN - LOWER LEVEL 00 PROMENADE

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

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3	2021.07.30	BP3:PROMENADE - BULLETIN 07
4	Date 9	BP3: Future Bulletin

Seal / Signature

COLORADO LICENSED MATHEW E. EDWARDS 56806 PROFESSIONAL ENGINEER
7/30/2021

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - PLUMBING PLAN - LEVEL 00

Scale
1/8" = 1'-0"

1A-P1.200

MSB

LOCATION: **VOLTAGE:** 480/277 Wye **BUS:** 2500 A
SUPPLY FROM: **SCCR:** **MAIN:** 2500 A - MCB

LOADS SUMMARY	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE	Load	
T-R1N1	144	12360	9504			720		22728 VA	27 A
L1N2	3761							3761 VA	5 A
L1N1	6711			180				6891 VA	8 A
T-PBDB								0 VA	0 A
M1N3			33255					33255 VA	40 A
M1N2	1200	51327	951	23520		150		77148 VA	93 A
M1N1			86167	5100		1365		101777 VA	122 A
CH 2A.01			266751					266751 VA	321 A
ICE PLANT MCC			237770					237770 VA	286 A
CONNECTED TOTALS (V-A)	11816	63687	634398	28800		2235		750081 VA	902 A
DIVERSITY FACTORS	100%	58%	111%	100%		100%		--	--
DEMAND TOTAL (V-A)	11816	36844	701086	28800		2235		791505 VA	952 A

TRANSFORMER TABLE - 480V PRIMARY - 208Y/120V SECONDARY

KVA	FL AMPS	BKR SIZE	FDR	TRANSFORMER GROUNDING ELECTRODE	FL AMPS	BKR SIZE	FDR
3PH	480V	(1)	(2)	(WIRE) PIPE	208V	(1)	(2)
15	18	30	F30	(#8 CU) 3/4"C	42	50	FN50A
30	36	50	F50	(#6 CU) 3/4"C	83	100	FN100A
45	54	70	F70	(#6 CU) 3/4"C	125	150	FN150
75	90	125	F125	(#2 CU) 3/4"C	208	250	FN250A
112.5	135	175	F175	(#1/0 CU) 1"C	312	400	FN400A
150	180	225	F225	(#1/0 CU) 1"C	416	500	FN500A
225	271	350	F350	(#2/0 CU) 1"C	626	800	FN800A
300	361	450	F450	(#3/0 CU) 1"C	833	1000	FN1000A
500	601	800	F800	(#250 KCMIL) 1"C	1388	1600	FN1600A

NOTES:
1 USE DEVICE TYPES INDICATED ON SINGLE LINE DIAGRAM.
2 REFERENCE FEEDER TABLE FOR FEEDER SIZE.

SHORT CIRCUIT STUDY

ALL EQUIPMENT MUST BE FULLY RATED FOR SHORT CIRCUIT / FAULT VALUES SHOWN BELOW. SERIES RATING NOT PERMITTED.

KEY	AVAILABLE AMPS
1	23,100
2	23,455
3	7,486
4	6,905
5	15,942
6	14,670
7	15,445
8	14,424
9	18,624
10	5,253
11	12,342
12	10920
13	11358
14	5508

TRANSFORMERS (150KVA OR LESS)
BASED ON INFINITE IMPEDENCE ON THE PRIMARY.
THE AVAILABLE FAULT CURRENTS ON THE SECONDARY OF A TRANSFORMER IS AS FOLLOWS

15KVA	1343
30KVA	1665
45KVA	3903
75KVA	7330
112.5KVA	9184
150KVA	13787

1

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				FD50A	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
700	F700	2	(3#500,#1/0G) 3"C	FN700	2	(4#500,#1/0G) 3-1/2"C
750	F750	2	(3#500,#1/0G) 3"C	-	-	-
800	F800	3	(3#300,#1/0G) 3"C	FN800	3	(4#300,#1/0G) 3"C
800	-	-	-	FN800A	3	(4#300,#2/0G) 3"C
800	F800B	2	(3#600,#1/0G) 3-1/2"C	FN800B	2	(4#600,#1/0G) 4"C
800	-	-	-	FD800A	3	(5#300,#2/0G) 3"C
1000	F1000	3	(3#400,#2/0G) 3"C	FN1000	3	(4#400,#2/0G) 3-1/2"C
1000	-	-	-	FN1000A	3	(4#400,#3/0G) 3-1/2"C
1000	-	-	-	FD1000A	3	(5#400,#3/0G) 3-1/2"C

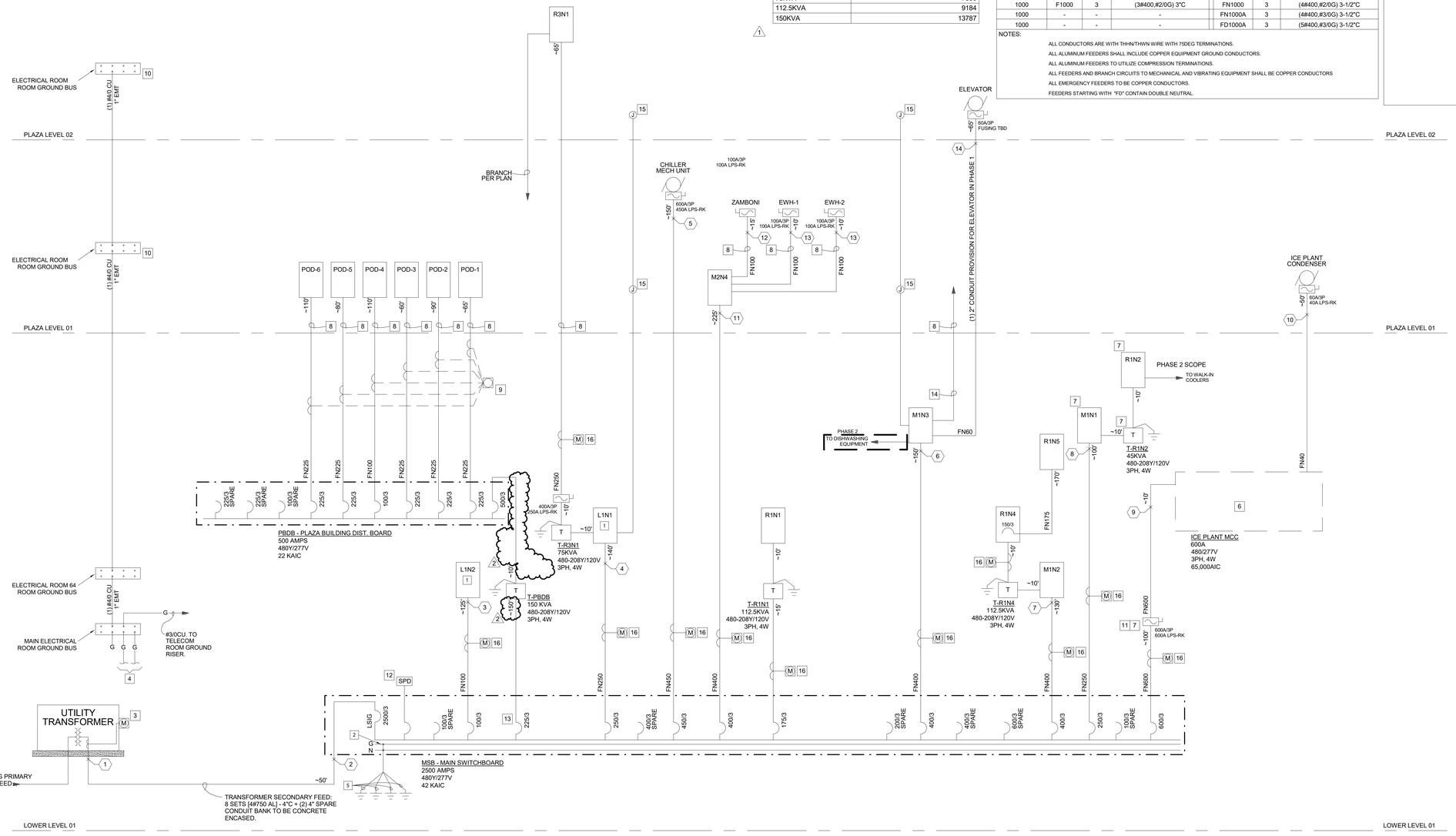
NOTES:
ALL CONDUCTORS ARE WITH THHN/THWN WIRE WITH 75DEG TERMINATIONS.
ALL ALUMINUM FEEDERS SHALL INCLUDE COPPER EQUIPMENT GROUND CONDUCTORS.
ALL ALUMINUM FEEDERS TO UTILIZE COMPRESSION TERMINATIONS.
ALL FEEDERS AND BRANCH CIRCUITS TO MECHANICAL AND VIBRATING EQUIPMENT SHALL BE COPPER CONDUCTORS
ALL EMERGENCY FEEDERS TO BE COPPER CONDUCTORS.
FEEDERS STARTING WITH "FD" CONTAIN DOUBLE NEUTRAL.

KEYNOTES:

16 PROVIDE E-GAUGE PRO SERIES METERING FOR PANEL FEEDER. METERING POINT CAN SHARE A COMMON METER PROVIDED ALL LOAD IS MONITORED ON EACH PANEL. REFER TO PLAN FOR METER LOCATIONS WITHIN EACH ROOM.

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 42,000 AMPS AVAILABLE AT THE MAIN SERVICE.
8. REFER TO DETAIL SHEET E8.001 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.
10. UNLESS OTHERWISE NOTED, SCOPE IS TO BE PROVIDED IN PHASE 1 OF THIS PROJECT. PHASE 2 SCOPE HAS BEEN INDICATED ON THIS ONE-LINE DIAGRAM.



1

KEYNOTES:

1 PROVIDE LIGHTING CONTROL PANEL ADJACENT TO THIS PANEL.
2 NEUTRAL GROUND BOND.
3 PROVIDE CT AND METERING PER UTILITY REQUIREMENTS.
4 CONNECT TO MAIN SERVICE SWITCHBOARD GROUND BUS WITH 4/0 AWG. COPPER IN A 1" CONDUIT. PVC PERMITTED BELOW GRADE
5 PROVIDE BUILDING GROUNDING SYSTEM WITH CONNECTION TO PERIMETER GROUND LOOP, BUILDING STEEL, COLD WATER PIPE, UFER GROUND, AND ROOM GROUND BUS.
6 EQUIPMENT AND EQUIPMENT CONNECTIONS SHALL BE PROVIDED BY ICE PLANT REFRIGERATION CONTRACTOR UNLESS OTHERWISE NOTED.
7 PROVIDE NEMA 3R (OR GREATER) ENCLOSURE.
8 PROVIDE CONDUIT WITH PULL STRING FOR PHASE 1 SCOPE. WIRING AND TERMINATIONS TO BE PROVIDED AS PHASE 2 SCOPE.
9 PROVIDE E-GAUGE METERING FOR FOOD SERVICE INFRASTRUCTURE. PROVIDE ALL RESPECTIVE SOFTWARE AND START-UP FOR METERING. METER LOCATION PER PLAN. METERING AND CT'S SHALL BE PHASE 2 SCOPE.
10 BOND TO COLD WATER PIPE AT THIS LEVEL.
11 ELECTRICAL CONTRACTOR TO TERMINATE CONDUCTORS ON THE LINE SIDE OF THE DISCONNECT. ICE PLANT CONTRACTOR SHALL BRING CONDUCTORS FROM LOAD SIDE OF DISCONNECT TO MOTOR CONTROL CENTER.
12 PROVIDE EXTERNALLY MOUNTED SPD FOR SERVICE ENTRANCE SWITCHBOARD. MINIMIZE FEEDER DISTANCE. PROVIDE BREAKER SIZE PER MANUFACTURER REQUIREMENTS.
13 PROVIDE LOCKOUT BREAKER AT SWITCHBOARD.
14 PROVIDE (1) 2" CONDUIT FROM THIS PANEL TO EACH POD IN THE PLAZA BUILDING. TOTAL OF (6) 2" CONDUITS / (1) PER POD EXCLUDING POD 7 AT BAR AREA ON PLAZA LEVEL 02.
15 PROVIDE BRANCH CIRCUITS ON THIS LEVEL FROM PANEL INDICATED.

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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.0618	Bulletin No.1 - Promenade Transformer
2	2021.07.30	BP3:PROMENADE - BULLETIN 07

Seal / Signature

COLORADO LICENSED MATTHEW JOHN [illegible] 52253 PROFESSIONAL ENGINEER

Project Name
SSRC | BASE AREA IMPROVEMENTS

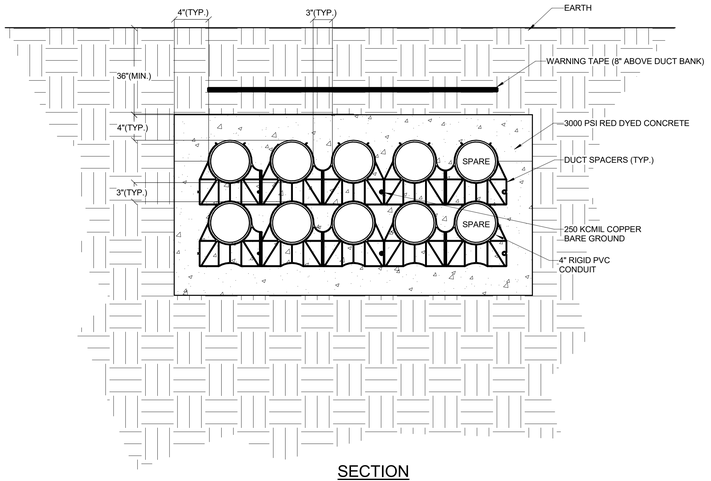
Project Number
003.7835.000

Description
PROMENADE - ELECTRICAL ONE-LINES

Scale
1/8" = 1'-0"

1A-E0.001

1 PWR ONE-LINES - PROMENADE BUILDING
SCALE: 1/8" = 1'-0"

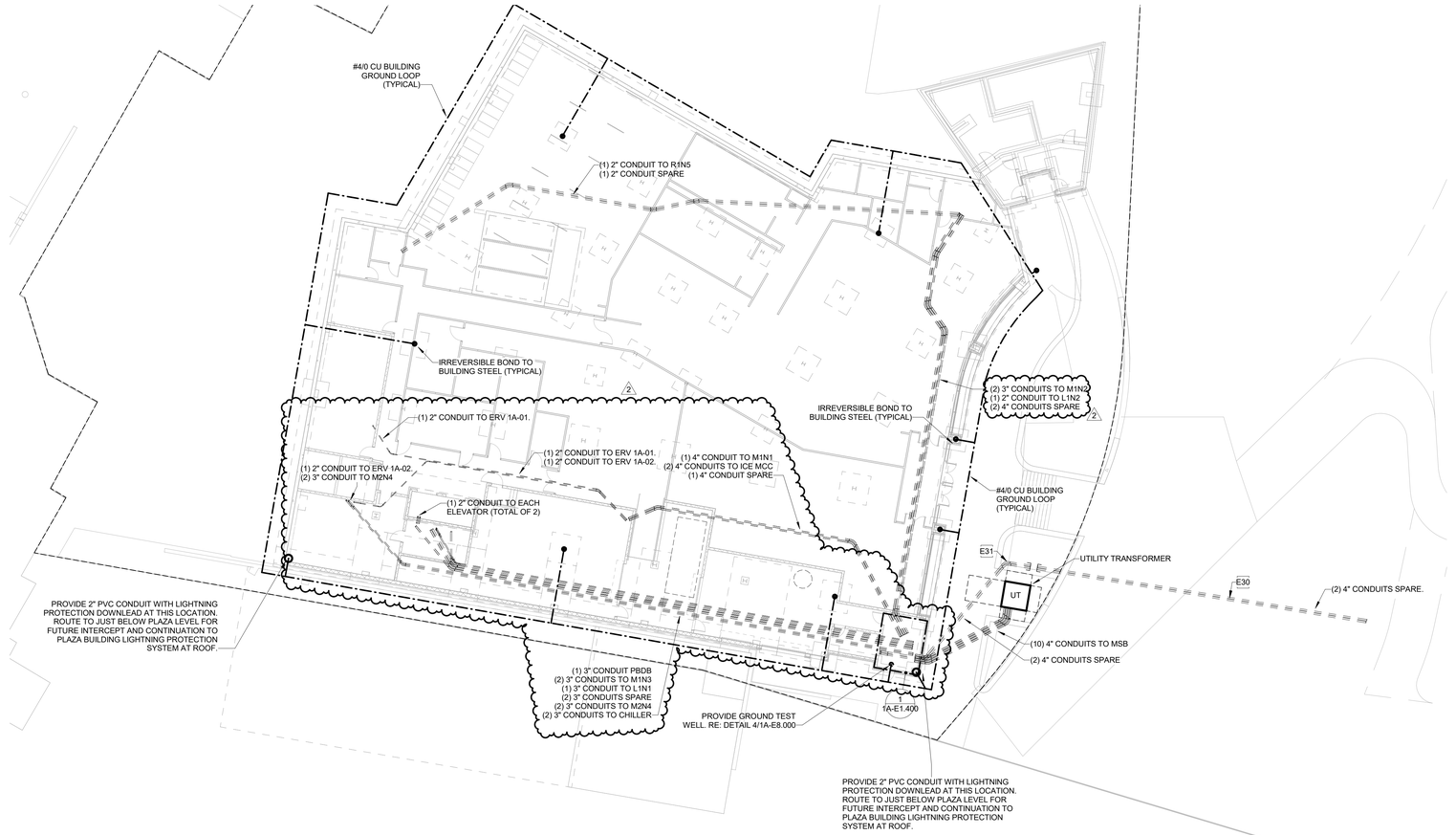


SECTION

1. DUCT BANK SHALL BE CONCRETE ENCASED WITH A MINIMUM OF 4" OF COVER ON ALL OUTSIDE EDGES (MINIMUM 3000 PSI RED DYED CONCRETE).
2. CONTRACTOR SHALL PROVIDE DUCT SPACERS EVERY 2'-6" FOR ALL UNDERGROUND CONDUIT (PVC.)
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO PROCEEDING WITH WORK.

3 DUCT BANK

SCALE: NO SCALE



1 ELECTRICAL UNDERGROUND SITE PLAN

SCALE: 1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET 1A-E0.002 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO LANDSCAPE DRAWINGS FOR ALL SITE FIXTURE LOCATIONS MOUNTED IN HARDSCAPE OR SOFTSCAPE. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND LANDSCAPE ELEMENTS.
3. ALL LANDSCAPE OR EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA THE LIGHTING CONTROL SYSTEM.
4. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR ALL FIXTURE LOCATIONS ON THE EXTERIOR OF THE BUILDING. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
5. PROVIDE A MINIMUM 1" PVC CONDUIT FOR ALL UNDERGROUND BRANCH CIRCUITS. ALL 90DEGREE ELBOWS SHALL BE PVC COATED RIGID.
6. 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.
7. ALL WORK INDICATED ON THIS SHEET IS CONSIDERED PHASE 1 SCOPE OF WORK.

KEYNOTES

1	E30	SPARE CONDUITS TO BE ROUTED ACROSS BURGESS CREEK. CONDUITS TO BE INSTALLED BY UTILITY IN COMMON TRENCH WITH PRIMARY CONDUITS SERVING PROMENADE TRANSFORMER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH YVEA FOR INTERCEPT AND EXTENSION INTO THE PROMENADE BUILDING AS INDICATED PER PLAN. REFER TO CIVIL DRAWINGS FOR EXACT PROFILE AND CONDUIT ROUTING ACROSS CREEK.
	E31	ELECTRICAL CONTRACTOR TO INTERCEPT AND CONTINUE CONDUIT ROUTING ONCE SPARE CONDUITS HAVE BEEN INSTALLED BY UTILITY ACROSS BURGESS CREEK. INSTALL CONDUITS AS INDICATED PER PLAN AND TERMINATE IN JUNCTION BOX IN MAIN ELECTRICAL ROOM MOUNTED ON WALL. REFER TO CIVIL DRAWINGS FOR EXACT ROUTING AND OTHER UTILITIES.

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1	2021-0618	Bulletin No.1 - Promenade Transformer
2	2021.07.30	BP3:PROMENADE - BULLETIN 07

Seal / Signature

COLORADO LICENSED 52253 PROFESSIONAL ENGINEER

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

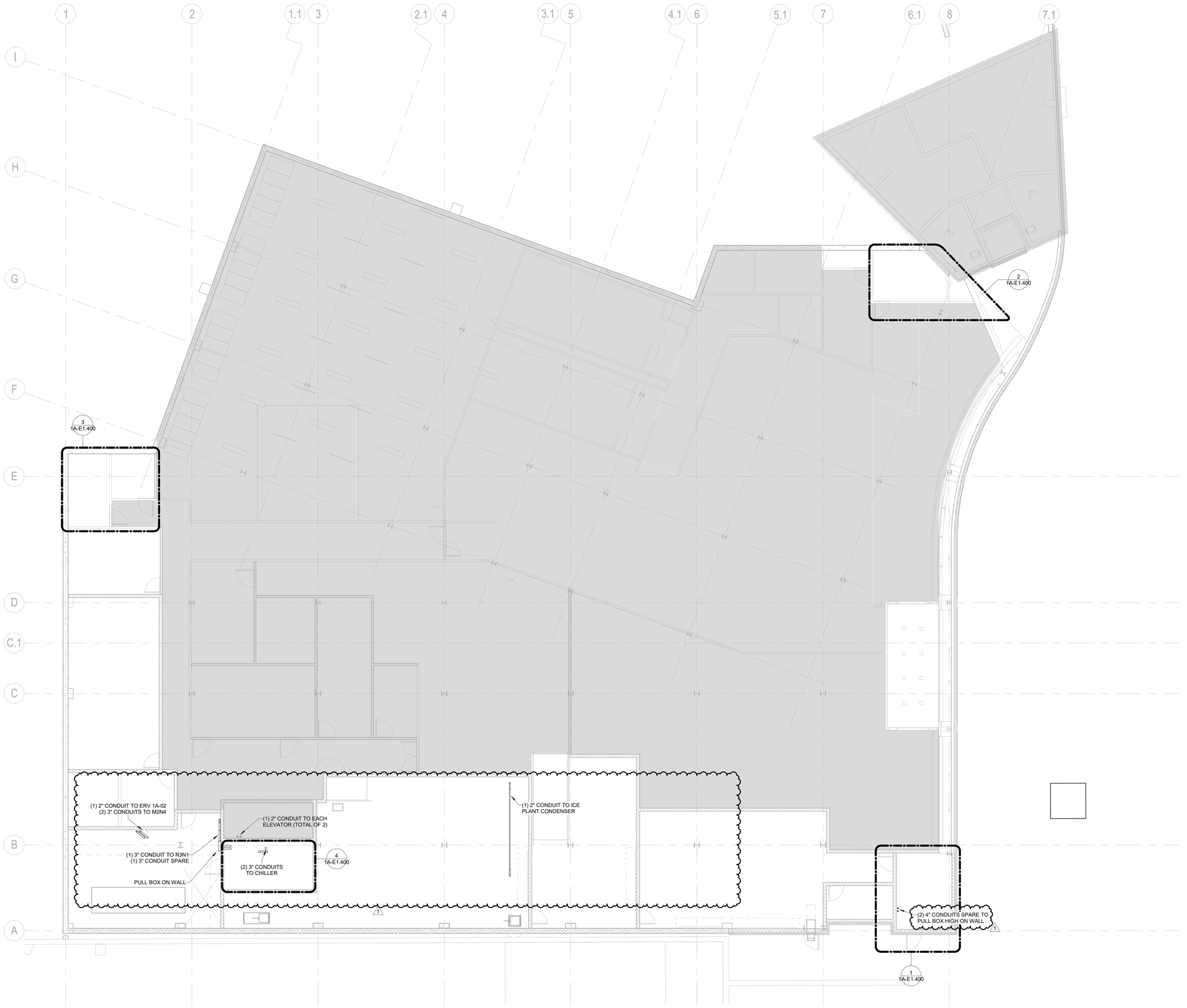
Description

PROMENADE - ELECTRICAL UNDERGROUND CONDUIT PLAN

Scale

As indicated

1A-E1.100U



1 ELECTRICAL CONDUIT PLAN - LOWER LEVEL 00 PROMENADE
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. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE 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.

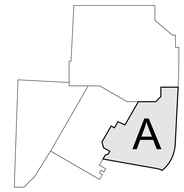
5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

KEY PLAN



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Seal / Signature

COLORADO LICENSED
52253
PROFESSIONAL ENGINEER

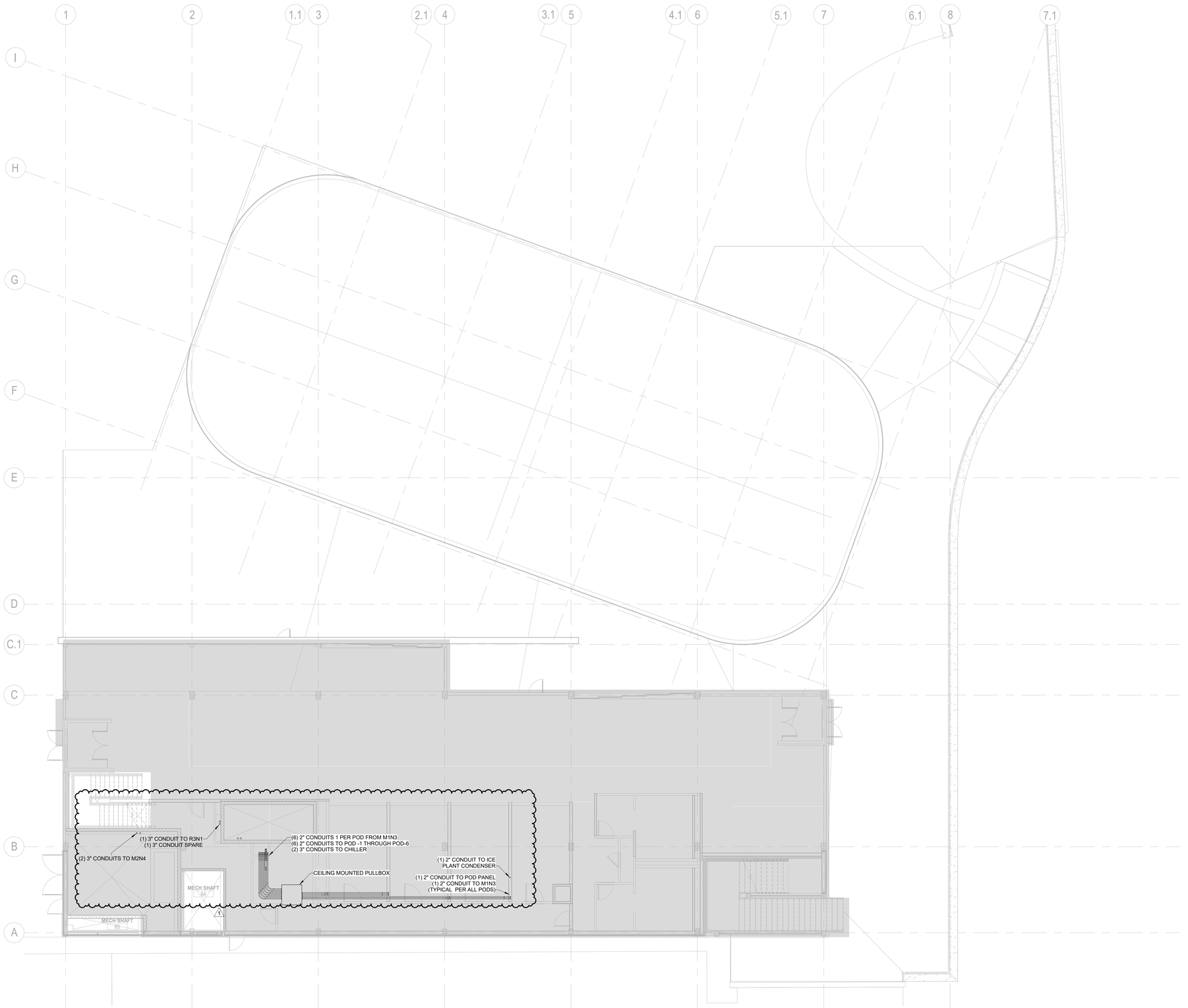
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - ELECTRICAL CONDUIT PLAN - LEVEL 00

Scale
1/8" = 1'-0"

1A-E1.100



GENERAL NOTES:

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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.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

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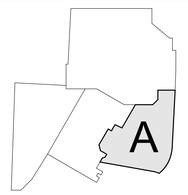
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.07.30	BP3:PROMENADE - BULLETIN 07

KEY PLAN



Seal / Signature

COLORADO LICENSED
MATTHEW JOHN SEIDT
52253
PROFESSIONAL ENGINEER

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

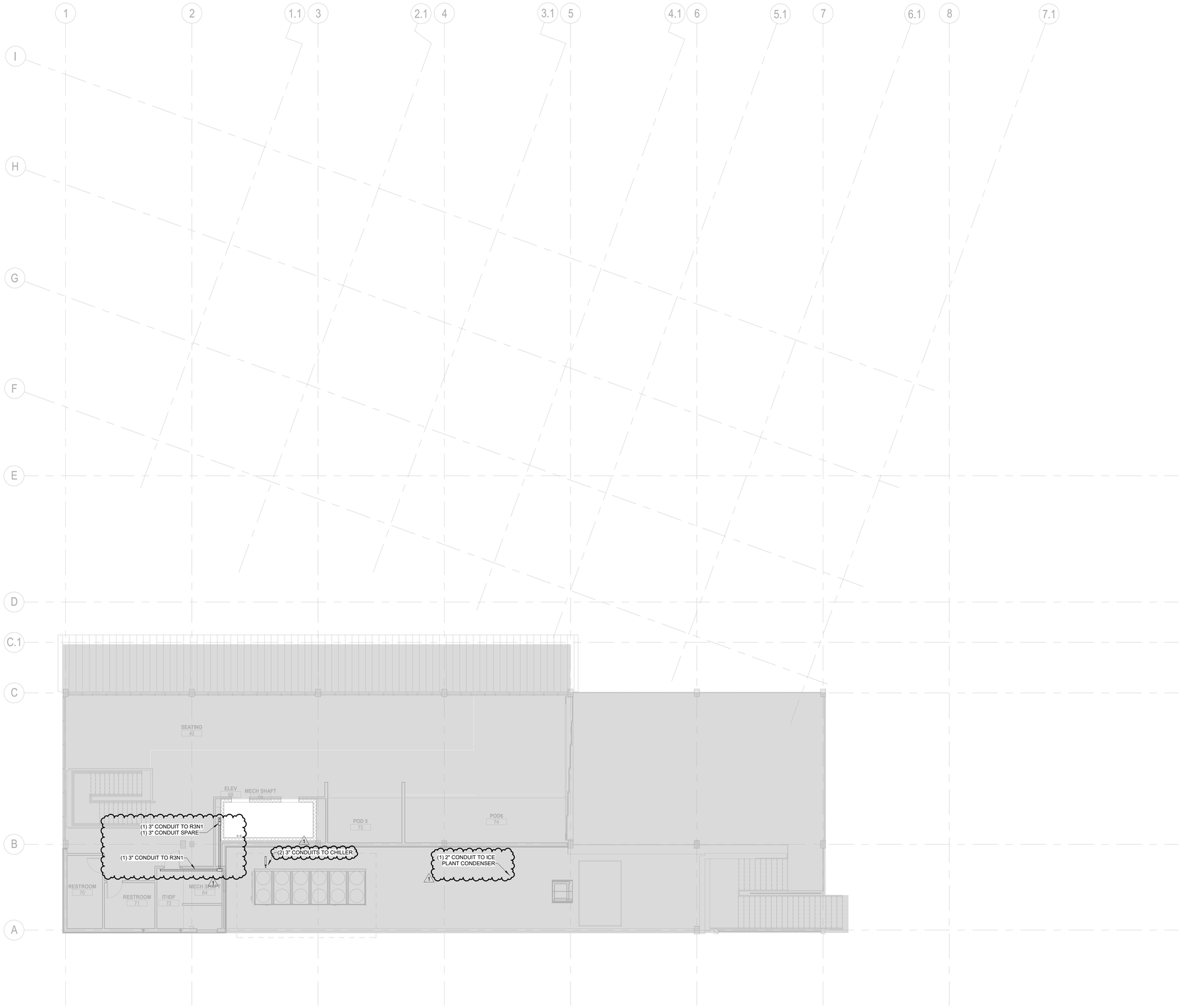
PROMENADE - ELECTRICAL CONDUIT PLAN - LEVEL 01

Scale

1/8" = 1'-0"

1A-E1.101

1 ELECTRICAL CONDUIT PLAN - LEVEL 01 PLAZA
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

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

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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.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

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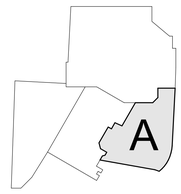
△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
1	2021.07.30	BP3:PROMENADE - BULLETIN 07

KEY PLAN



Seal / Signature

COLORADO LICENSED
52253
PROFESSIONAL ENGINEER

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

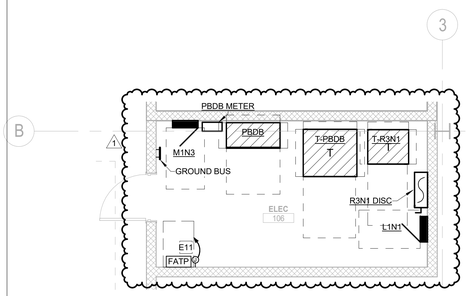
PROMENADE - ELECTRICAL CONDUIT PLAN - LEVEL 02

Scale

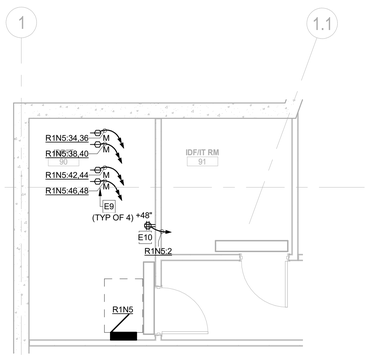
1/8" = 1'-0"

1A-E1.102

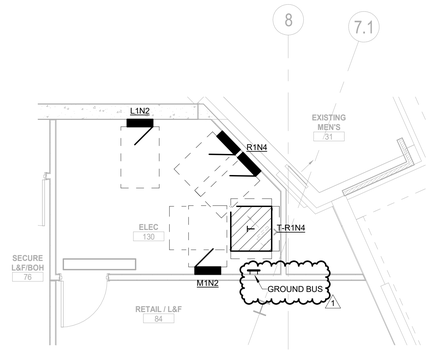
1 ELECTRICAL CONDUIT PLAN - LEVEL 02 PLAZA
SCALE: 1/8" = 1'-0"



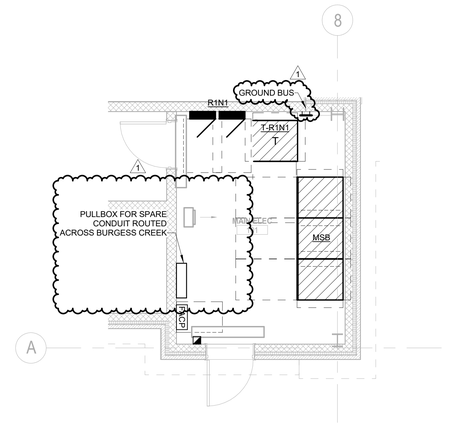
4 ENLARGED LOWER LEVEL ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



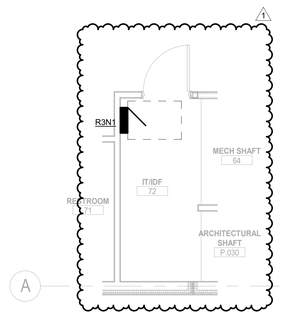
3 ENLARGED IDF ROOM 90 & 91
SCALE: 1/4" = 1'-0"



2 ENLARGED ELECTRICAL ROOM 64
SCALE: 1/4" = 1'-0"



1 ENLARGED MAIN ELECTRICAL ROOM 45
SCALE: 1/4" = 1'-0"



5 ENLARGED IT/IDF ROOM 72
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. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE 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.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

E9	PROVIDE L6-30R DEVICE AT THE TOP OF THE RACK LOCATED ON THE BACK SIDE. REFER TO TECHNOLOGY DRAWINGS FOR EXACT RACK QUANTITIES AND LOCATIONS WITHIN IT ROOM.
E10	PROVIDE QUAD DEVICE MOUNTED BEHIND ACCESS CONTROL PANEL. REFER TO TECHNOLOGY DRAWINGS FOR EXACT LOCATION OF DEVICE WITH PANEL.
E11	PROVIDE LIGHTING INVERTER "IOTA IIS-550-I" OR APPROVED EQUAL FOR BRANCH CIRCUIT EMERGENCY LIGHTING. INVERTER SHALL BE MOUNTED IN ACCESSIBLE LOCATION EITHER ABOVE ACCESSIBLE CEILING OR IN ADJACENT BACK OF HOUSE SPACE HIGH ON WALL. REFER TO 10/1A-E8.003 FOR EXACT WIRING CONFIGURATION WITH LIGHTING CONTROL AND INVERTER SYSTEM.

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Seal / Signature

COLORADO LICENSED 52253 PROFESSIONAL ENGINEER

Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - ENLARGED ELECTRICAL AND IDF ROOMS

Scale
1/4" = 1'-0"

1A-E1.400