



# PROJECT MANUAL

## 9<sup>TH</sup> & MAIN GARAGE SECURE BIKE PARKING PROJECT

DECEMBER 19, 2018

### OWNER'S REPRESENTATIVES / PROJECT CONSULTANTS

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#### OWNER'S REPRESENTATIVE

MATT EDMOND  
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121 N. 9<sup>TH</sup> STREET, STE. 501  
BOISE, IDAHO 83702  
208-384-4264

#### PROJECT ARCHITECT

ROB THORNTON  
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220 NORTH 10<sup>TH</sup> STEET  
BOISE, IDAHO 83702  
208-345-2125

#### OWNER'S CONTRACTS SPECIALIST

KATHY WANNER  
CAPITAL CITY DEVELOPMENT CORP.  
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BOISE, IDAHO 83702  
208-384-4264  
208-391-7304 (direct)

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## SECTION 00 11 16 INVITATION TO BID

Project: 9<sup>th</sup> & Main Garage Secure Bike Parking Project  
Boise, Idaho

December 19, 2018

Capital City Development Corporation (CCDC) invites submission of sealed bids for the 9<sup>th</sup> & Main Garage Secure Bike Parking Project, in accordance with the formal bid process outlined in Idaho Code § 67-2805(2) (a). A Public Works Contractors License issued by the State of Idaho is required to bid on this work.

In accordance with the plans and specifications, the work shall consist of the fabrication and installation of a secure bicycle parking facility in the 9<sup>th</sup> & Main Garage.

Bids will be prepared per the specifications detailed within the Project Manual. The Project Manual and Drawings shall be provided electronically.

Sealed bids will be received at the offices of CCDC, 121 N. 9<sup>th</sup> Street, Suite 501, Boise, Idaho 83702 until **3:00 p.m.** local time **JANUARY 23, 2019** at which time the bids will be publicly opened.

CCDC reserves the right to reject any and all proposals, to waive any irregularities in the proposals received, and to accept the proposal that is in the best interest of CCDC. The issuance of the Invitation to Bid and the receipt and evaluation of sealed bids does not obligate CCDC to award a contract. CCDC will pay no costs incurred by Bidders in responding to this Invitation to Bid. CCDC may in its discretion cancel this process at any time prior to execution of a contract without liability.

Five percent (5%) bidder's security is **REQUIRED** in the form of a certified check, cashier's check, cash, or Bidder's Bond made payable to CCDC executed by a qualified surety company.

A **pre-bid meeting** will be held at the project site: 9<sup>th</sup> & Main Garage, 848 W. Main Street, Boise, Idaho. Bidders shall meet at the 9<sup>th</sup> & Main (formerly Eastman) Garage entrance location on Main Street. This meeting will be held at **2:00 p.m.** on **January 9, 2019**. CCDC strongly recommends attendance by the Bidders.

CCDC appreciates your interest in meeting the needs of the agency and the citizens of Boise.



121 N 9TH ST, SUITE 501 BOISE, ID 83702  
208-384-4264 [WWW.CCDCBOISE.COM](http://WWW.CCDCBOISE.COM)

END OF SECTION 00 11 16

## SECTION 00 21 13 INSTRUCTIONS TO BIDDERS

### 1. BID SUBMISSION

The submission package or envelope must be sealed and plainly marked for delivery as follows:

Capital City Development Corporation  
Attn: 9<sup>th</sup> & Main Garage Secure Bike Storage Project - BID  
121 N. 9<sup>th</sup> Street, Suite 501  
Boise, Idaho 83702

Indicate "SEALED BID ENCLOSED" on the outside envelope.

One (1) SIGNED original bid is required – unsigned bids will not be accepted. Late or incomplete submissions will not be accepted. Email or fax submissions will not be accepted. Bidder assumes full responsibility for the timely delivery of its bid to CCDC.

The Bidder will be responsible for all costs (including site visits where needed) incurred in preparing or responding to this bid invitation. All materials and documents submitted in response to this bid invitation become the property of CCDC and will not be returned.

### 2. GENERAL CONDITIONS

#### 2.1 Intent of Bid/Proposal

It is the intent of this Invitation to Bid to define requirements in sufficient detail to secure comparable Bids. Bids shall be in accordance with Bid document requirements. Bids not conforming to the requested format or not in compliance with the specifications will be considered non-responsive.

CCDC reserves the right to act in the public best interest and in furtherance of the purposes of the Idaho Code Title 50, Chapter 20 (Idaho Urban Renewal Law) and Idaho Code Title 67, Chapter 28 (Purchasing by Political Subdivisions). CCDC reserves the right to waive any formalities or defects as to form, procedure, or content with respect to its Bid Invitation and any irregularities in the Bids received, to request additional data and information from any and all Bidders, to reject any submissions based on real or apparent conflict of interest, to reject any submissions containing inaccurate, or misleading information, and to accept the proposal that is in the best interest of CCDC. The issuance of this Bid Invitation and the receipt and evaluation of sealed bids does not obligate CCDC to award a contract. CCDC may in its discretion cancel this process at any time prior to execution of a contract without liability.

#### 2.2 Public Records

CCDC is a public agency. All documents in its possession are public records subject to disclosure under the Idaho Public Records Act, Title 74, Chapter 1, Idaho Code, and will be available for inspection and copying by any person. The Public Records Act contains certain exemptions – one of which that is potentially applicable to part of your response may be for trade secrets. Trade secrets include a formula, pattern, compilation, program, computer program, device, method, technique or process that derives economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by

other persons and is subject to the efforts that are reasonable under the circumstances to maintain its secrecy. Prices quoted in a bid are not a trade secret.

If any Bidder claims any part of a Bid is exempt from disclosure under the Idaho Public Records Act, the Bidder must: 1.) Indicate by marking the pertinent document "CONFIDENTIAL"; and, 2.) Include the specific basis for the position that it be treated as exempt from disclosure. Marking the entire bid as "Confidential" is not in accordance with Idaho Public Records Act and will not be honored.

CCDC, to the extent allowed by law and in accordance with these Instructions, will honor a designation of nondisclosure. By claiming material to be exempt from disclosure under the Idaho Public Records Act, Bidder expressly agrees to defend, indemnify, and hold CCDC harmless from any claim or suit arising from CCDC's refusal to disclose such materials. Any questions regarding the applicability of the Public Records Act should be addressed to your own legal counsel prior to submission.

### **2.3 Form of Agreement**

Unless otherwise specified in the bid documents, the form of the Contract will be a Standard Agreement and General Conditions Between Owner and Constructor, as modified by CCDC.

### **2.4 Performance and Payment Bond**

A performance bond and payment bond are required for this Project, each in an amount of not less than one hundred percent (100%) of the Contract Price. The performance and payment bonds shall be AIA Document A312, 1984 or the most recent Edition, or a standard surety form certified approved to be the same as the AIA A312 form and shall be executed by a surety or sureties reasonably acceptable to CCDC and authorized to do business in the State of Idaho. Bonds must be provided within ten (10) calendar days following receipt of a Notice of Intent to Award.

### **2.5 Taxes**

CCDC is exempt from Federal and State taxes and will execute the required exemption certificates for items purchased and used by CCDC. Items purchased by CCDC and used by a contractor are subject to Use Tax. All other taxes are the responsibility of the Contractor and are to be included in the Contractor's Bid pricing.

### **2.6 Cost/Use Tax for Owner Supplied Furnishings, Fixtures and Equipment**

CCDC is providing the cost of the owner supplied furnishings, fixtures and equipment listed below so Bidders can calculate the use tax that will be owed to the State of Idaho.

Item	Storage Location	Retrieve, Transport, and Install at project Site	Cost of Items
All Bike Racks, Repair Stand, Bicycle Pump and sundry installation kits for this equipment.	421 N 10 <sup>th</sup> Street	Contractor	\$12, 819.07

### **3. SUBMISSION PROCESS**

#### **3.1 All Forms to be Submitted**

Bidders must submit the following completed forms with original signatures in ink. Failure to submit all forms along with a Bid Security will render any Bid unresponsive and void.

00 41 13 Bid Form

00 45 46 Contractor's Affidavit Concerning Taxes

#### **3.2 Request for Clarification; Objections to Specifications or Process;**

Any Bidder who wishes to request clarifications or object to specifications or bidding procedures outlined in this Invitation to Bid may submit a written notification to the CCDC Contracts Specialist to be received no later than:

Questions and Clarifications Due: 5:00 p.m. Monday, January 14, 2019

Objections to Bid Process: 5:00 p.m. Thursday, January 17, 2019

The notification will state the exact nature of the clarification or protest, describing the location of the protested portion or clause in the Bid/Proposal documents, and explaining why the provision should be struck, added, or altered, and contain suggested corrections. CCDC may deny the objection, modify the Project Manual, and/or reject all or part of the objection. Changes to these specifications will be made by written addendum. Verbal responses will not be binding on CCDC or the Bidder.

Written requests must be directed to:

Kathy Wanner, Contracts Specialist

[kwanner@ccdcoise.com](mailto:kwanner@ccdcoise.com)

#### **3.3 Addenda**

In the event it becomes necessary to revise any part of the bid documents, addenda will be issued. Information given to one bidder will be available to all other bidders if such information is necessary for purposes of submitting a bid or if failure to give such information would be prejudicial to uninformed bidders. It is the bidder's responsibility to check for addenda prior to submitting a bid. A bidder is required to acknowledge receipt of all addenda by identifying the addenda numbers in the space provided on the bid proposal form. Failure to do so may result in the bid being declared non-responsive.

#### **3.4 Time for Submission**

Bids must be submitted on or before the time specified in the Invitation to Bid. Any bid submitted late will be rejected.

#### **3.5 Bid and Price Guarantee**

A submitted Bid must remain open for sixty (60) days.

#### **3.6 Bid Modification; Bid Withdrawal**

A Bid may be modified or withdrawn by the Bidder prior to the set date and time for the opening of Bids. Bids may not be modified or withdrawn after the bid opening.

### **3.7 Legal Residency Requirement**

By submitting a bid, the bidder attests, under penalty of perjury, that he (the bidder) is a United States citizen or legal permanent resident or that it is otherwise lawfully present in the United States pursuant to federal law. Prior to being issued a contract, the bidder will be required to submit proof of lawful presence in the United States in accordance with § 67-7903, Idaho Code.

### **3.8 Public Works Contractor's License Requirements**

This Project is not financed in whole or in part by federal funds. Bids will be accepted from those Contractors only (prime contractors, subcontractors and/or specialty contractors) who, prior to the bid opening, hold current licenses as public works contractors in the State of Idaho. Idaho Code § 54-1902 requires that public works contractors and subcontractors have the appropriate Public Works License for the particular type of construction work involved, and the prime contractor must perform at least 20% of the work under contract. CCDC uses the Idaho Division of Building Safety's (DBS) online license search utility to verify that Bidders meet all PWC License requirements.

The Contractor will, in the space provided in the Bid Form, provide the names and addresses and Idaho Public Works Contractor's license number of each subcontractor that the Contractor will utilize for the construction, alteration, or repair of the public works here involved, as required by Idaho Code § 67-2310. Failure to name subcontractors for plumbing, heating, air-conditioning, and electrical as required will render any Bid submitted by a general Contractor unresponsive and void.

## **4. BID SECURITY**

All Bids must be accompanied by a bid security that is not less than five percent (5%) of the total Bid amount. The bid security shall be in the form of either cash; a cashier's check made out to CCDC; a certified check made out to CCDC; or a Bidder's bond executed by a surety company authorized to do business in the State of Idaho.

CCDC reserves the right, on the refusal or failure of the Successful Bidder to execute the CCDC contract or furnish the required proof of insurance and bonds, to award the contract for the Project to the next lowest qualified Bidder. If CCDC awards the CCDC contract to the next lowest qualified Bidder, the amount of the lowest qualified Bidder's bid security will be applied by CCDC to the difference between the lowest responsive Bid for the Project and the next lowest responsive Bid for the Project, and the surplus, if any, shall be returned to the lowest Bidder if cash or check is used, or to the surety on the Bidder's bond if a bond is used, less reasonable administrative costs not to exceed twenty-five percent (25%) of the amount of the Bidder's bid security.

## **5. SELECTION CRITERIA**

Selection will be based on the procurement rules set forth in Idaho Code § 67-2805(2)(a). CCDC has the right to waive or alter submission requirements or to reject any or all submissions, including without limitation, nonconforming, nonresponsive, unbalanced or conditional bids consistent with Idaho law. It is the bidder's responsibility to conform to all applicable federal, state and local statutes or other applicable legal requirements. The information provided herein is intended to assist bidders in meeting applicable requirements but is not exhaustive, and CCDC will not be responsible for any failure by any bidder to meet applicable requirements.

## **6. OBJECTION TO CONTRACT AWARD**

If any participating Bidder objects to CCDC's award of the contract for the Project, that Bidder shall respond in writing to the notice of the bid award from CCDC within seven (7) calendar days



of the date of transmittal of the notice, stating the express reason or reasons that the award decision of CCDC's governing board is in error. Upon receipt of such objection, the CCDC Board shall review the award and determine whether to affirm, modify or re-bid, setting forth the reason or reasons for its decision. At completion of the review process, CCDC may proceed as it deems to be in the public interest.

END OF SECTION 00 21 13

## SECTION 00 25 13 PRE BID MEETING

A Pre-Bid Conference with a Site Tour of the Project Area will be held at 2:00 p.m. on January 9, 2019, on location at the 9<sup>th</sup> & Main (formerly Eastman) Parking Garage, 848 W. Main Street, Boise, Idaho. Meet near the parking garage entrance on Main Street.

CCDC strongly recommends Bidders attend the Pre-Bid Conference and Site Tour.

END OF SECTION 00 25 13

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## BID FORM

PROJECT: **9<sup>th</sup> & MAIN GARAGE SECURE BIKE PARKING PROJECT**

THIS BID IS SUBMITTED TO:

Capital City Development Corporation  
Attn: 9<sup>th</sup> & Main Garage Secure Bike Parking Project  
121 N. 9th Street, Suite 501  
Boise, Idaho 83702

- 1.01 The undersigned Bidder proposes and agrees to enter into a Contract with CCDC in the form included in the Project Manual to perform all the Work as specified or indicated in the Project Manual for the prices indicated in this Bid and in accordance with the other terms and conditions of the Project Manual.
- 1.02 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for sixty (60) days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of CCDC.
- 1.03 Within thirty (30) days from receiving a written notice of acceptance of this Bid, Bidder shall execute the Contract and shall deliver evidence of required insurance coverages and bonds in the amounts required by the Contract.
- 1.04 In submitting this Bid, Bidder represents, as set forth in the Contract and Project Manual, that:

- a. Bidder has examined and understands the Project Manual and the following Addenda:

Addendum No.	Addendum Date
_____	_____
_____	_____

- b. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- c. Bidder is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- d. Bidder has carefully studied: 1.) all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site which have been identified in the Project Manual; and 2.) all reports and drawings of a Hazardous Environmental Condition, if any, which has been identified in the Project Manual.
- e. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Project Manual to be employed by Bidder, and safety precautions and programs incident thereto.

- f. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Project Manual.
  - g. Bidder is aware of the general nature of work to be performed by CCDC and others at the Site that relates to the Work as indicated in the Project Manual.
  - h. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Project Manual, and all additional examinations, investigations, explorations, tests, studies, and data with the Project Manual.
  - i. Bidder has given CCDC written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovered in the Project Manual, and the written resolution thereof by CCDC is acceptable to Bidder.
  - j. The Project Manual is generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
  - k. Bidder is responsible for ascertaining the existence of any addenda and the contents thereto.
- 1.5 Bidder represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over CCDC.
- 1.6 Bidder will complete the Work in accordance with the Contract Documents for the lump sum given, which includes all labor, materials, equipment, taxes (including sales use tax), overhead and profit and incidentals. Unit prices have been computed in accordance with the General Conditions. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid Items will be based on actual quantities provided, determined as provided in the Contract Documents.
- 1.7 Bidder agrees that the Work will be substantially completed and fully completed ready for final payment in accordance with General Conditions on or before the dates or within the number of calendar days indicated in the Contract Documents. Bidder accepts the provisions of the Contract as to liquidated damages in the event of failure to complete the Work within the times specified.
- 1.8 Bidder agrees to comply with Idaho Code § 44-1001 through 44-1006 regarding employment of Idaho residents.
- 1.9 The following documents are attached to and made a condition of this Bid: 1.) Required Bid security; and 2.) Contractor's Affidavit Concerning Taxes.
- Bidder agrees to include with the Bid the names and addresses and Idaho Public Works Contractor License numbers of the Subcontractors who shall, in the event the Bidder secures the Contract, subcontract the plumbing, heating and air-conditioning work, and electrical work under the general Contract.
- 1.10 **WAIVER & RELEASE:** Bidder has read and fully accepts CCDC's discretion and non-liability as stipulated herein, expressly for, but not limited to, CCDC's decision to proceed with a selection process in response to the Invitation to Bid, including the right in its sole discretion and judgment for whatever reason it deems appropriate, at any time unless contrary to applicable state law, to:
- a. Modify or suspend any and all aspects of the process seeking a contractor to construct Project.
  - b. Obtain further information from any person, entity, or group, including, but not limited to, any person, entity, or group responding to CCDC's Bid Invitation (any such person, entity, or group responding is, for convenience, hereinafter referred to as "Bidder"), and to ascertain the depth of Bidder's capability and experience for construction of Project and in any and all other respects to meet with and consult with any Bidder or any other person, entity, or group.
  - c. Waive any formalities or defects as to form, procedure, or content with respect to its Bid Invitation and any responses by any Bidder thereto.

- d. Accept or reject any sealed Bid received in response to the Bid Invitation, including any sealed Bid submitted by the undersigned; or select any one submission over another.
- e. Accept or reject all or any part of any materials, plans, drawings, implementation programs, schedules, phrasings and proposals or statements, including, but not limited to, the nature and type of Bid.

Bidder agrees that CCDC shall have no liability whatsoever, of any kind or character, directly or indirectly, by reason of all or any decision made at the discretion of CCDC as identified above.

**SUBCONTRACTORS**

Pursuant to Idaho Code § 67-2310, commonly known as the naming law, the names and addresses of subcontractors to whom work will be awarded, subject to approval of CCDC and Architect, are as listed below. If such work is not required, Bidder will indicate "Not Applicable" in the list below. In the event that the general (Trade) contractor intends to self-perform the plumbing, HVAC, or electrical work, the general contractor must be properly licensed by the state of Idaho to perform such work. The general (Trade) contractor shall demonstrate compliance with this requirement by listing the valid contractor's license number for the plumbing, HVAC, or electrical work to be self-performed by the general contractor on the bid form.

**Failure to name subcontractors as required by Idaho Code shall render any bid submitted unresponsive and void.**

**Plumbing**

Address:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Public Works License No.

\_\_\_\_\_

Idaho Plumbing Contractors License No.

\_\_\_\_\_

**Heating & Air Conditioning**

Address:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Public Works License No.

\_\_\_\_\_

Idaho HVAC Contractors License No.

\_\_\_\_\_

**Electrical**

Address:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Public Works License No.

\_\_\_\_\_

Idaho Electrical Contractors License No.

\_\_\_\_\_

**BID - OFFER**

All the work described in the Project Manual, Bid Drawings and Specifications.

\_\_\_\_\_ (\$ \_\_\_\_\_) Dollars, lawful money of the United States.

[Show amounts in both words and figures; in event of discrepancy, the amount in words shall govern.]

**BID FORM SIGNATURE**

SUBMITTED on \_\_\_\_\_, 2019.

X \_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
Idaho Public Works Contractor License No.

\_\_\_\_\_  
Print Name and Title

\_\_\_\_\_  
License Expiration Date

\_\_\_\_\_  
Contractor / Company

\_\_\_\_\_  
Federal Tax ID #

\_\_\_\_\_  
Address

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Phone No.

\_\_\_\_\_  
Fax No.

**ATTENTION:** Did you remember your Bid Security and Contractor's Affidavit Concerning Taxes?

Bid Security in the form of a bid bond, certified check, cashier's check, or cash in an amount not less than five percent (5%) of the total amount of the bid is **REQUIRED**.

Affidavit Concerning Taxes is also **REQUIRED**.

**IF THESE ARE NOT INCLUDED, YOUR BID WILL BE CONSIDERED NON-RESPONSIVE.**

END OF SECTION 00 41 13

SECTION 00 45 46 CONTRACTOR'S AFFIDAVIT CONCERNING TAXES  
**EXECUTE AND SUBMIT WITH BID**

**CONTRACTOR'S AFFIDAVIT CONCERNING TAXES**

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Pursuant to Chapter 15, Title 63, Idaho Code, I the undersigned, being duly sworn, depose and certify that all taxes, excises and license fees due to the State of Idaho and its taxing units, for which I or my property is liable, then due or delinquent, have been paid, or arrangements have been made, before entering into a contract for construction of any public works in the State of Idaho.

\_\_\_\_\_  
Contractor / Company

X \_\_\_\_\_  
Authorized Representative Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
Print Name and Title

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Notary Public  
Residing at: \_\_\_\_\_  
Commission Expires: \_\_\_\_\_

END OF SECTION 00 45 46



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**STANDARD AGREEMENT AND GENERAL CONDITIONS  
BETWEEN OWNER AND CONSTRUCTOR**

**9<sup>TH</sup> & MAIN GARAGE - SECURE BIKE PARKING PROJECT**

**(Lump Sum Price)**

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**ARTICLE 1 AGREEMENT**

This Agreement is made this [redacted] day of [redacted] in the year 2019, by and between the

**OWNER:** Capital City Development Corporation (CCDC)  
121 N. 9<sup>th</sup> Street, Suite 501  
Boise, Idaho 83702

and the

**CONSTRUCTOR:** [redacted]  
[redacted]  
[redacted]

Tax identification number (TIN): [redacted]

Idaho Public Works Contractor License No. [redacted]

for construction services in connection with the following PROJECT:

**9<sup>th</sup> & Main Garage – Secure Bike Parking Project**  
Work Area: 9<sup>th</sup> & Main Garage, 848 W. Main Street, Boise, Idaho 83702

Notice to the Parties shall be given at the above addresses.

The Owner’s Project Architect is C | T | Y STUDIO, Rob Thornton.

The Owner’s Representative is Matt Edmond.

The Parties agree as set forth herein:

**ARTICLE 2 GENERAL PROVISIONS**

2.1 RELATIONSHIP OF PARTIES The Parties each agree to proceed with the Project on the basis of mutual trust, good faith, and fair dealing.

2.1.1 The Constructor shall furnish construction administration and management services and use the Constructor’s diligent efforts to perform the Work in an expeditious manner consistent with the Contract Documents. The Parties shall each endeavor to promote harmony and cooperation among all Project participants.

2.1.2 The Constructor represents that it is an independent contractor and that in its performance of the Work it shall act as an independent contractor. Owner will have no right to control or direct the details, manner, or means by which Constructor accomplishes the results of the services performed hereunder.

2.1.3 The Constructor has no obligation to work any particular hours or days or any particular number of hours or days. Constructor agrees, however, that its other contracts and services shall not interfere with the performance of its services under this Agreement.

2.1.4 Neither the Constructor nor any of its agents or employees shall act on behalf of or in the name of the Owner except as provided in this Agreement or unless authorized in writing by the Owner's Representative.

2.1.5 The Parties shall perform their obligations with integrity, ensuring at a minimum that each: (a) avoids conflicts of interest and promptly discloses any to the other Party; and (b) warrants that it has not and shall not pay or receive any contingent fees or gratuities to or from the other Party, including its agents, officers, and employees, subcontractors, or others for whom they may be liable, to secure preferential treatment.

2.2 DESIGN PROFESSIONAL Owner's Design Professional is **C | T | Y STUDIO ("CTY")**. The Owner, through its Design Professional, shall provide all design services necessary for the completion of the Work. The Constructor shall not be required to provide professional services which constitute the practice of architecture, landscape architecture, or engineering.

2.2.1 The Owner shall obtain from the Design Professional either a license for Constructor and Subcontractors to use the design documents prepared by the Design Professionals or ownership of the copyrights for such design documents, and shall indemnify and hold harmless the Constructor against any suits or claims of infringement of any copyrights or licenses arising out of the use of the design documents for the Project.

## 2.3 DEFINITIONS

2.3.1 "Agreement" means this Standard Agreement and General Conditions Between Owner and Constructor, as modified, and exhibits and attachments made part of this agreement upon its execution. For purposes of this Agreement, the terms "Agreement" and "Contract" are equivalent.

2.3.2 "Business Day" means all Days, except weekends and official federal or state holidays where the Project is located.

2.3.3 "Change Order" is a written order signed by the Owner and the Constructor after execution of this Agreement, indicating changes in the scope of the Work, the Contract Price, or Contract Time, including substitutions proposed by the Constructor and accepted by the Owner.

2.3.4 "Contract Documents" consist of this Agreement, the existing Contract Documents listed in Section 14.1, drawings, specifications, addenda issued and acknowledged prior to execution of this Agreement, information furnished by the Owner pursuant to subsection 3.13.4, and modifications issued in accordance with this Agreement.

2.3.5 "Contract Price" is the amount indicated in section 7.1 of this Agreement.

2.3.6 "Contract Time" is the period between the Date of Commencement and Final Completion.

2.3.7 "Constructor" is the person or entity identified in 0 and includes the Constructor's Project Manager, designated by Constructor as having authority to represent, make decisions, and act on behalf of Constructor. For purposes of this Agreement, the terms Constructor and Contractor with the capitalized "C" are equivalent.

2.3.8 "Construction Period" is the period of time between the Date of Commencement stated in the Notice to Proceed and the date of Final Completion stated in the Certificate of Final Completion.

2.3.9 "Cost of the Work" means the costs and discounts specified in section 8.3.2.

2.3.10 "Date of Commencement" is as set forth in section 6.1.

2.3.11 "Day" means a calendar day.

2.3.12 “Defective Work” is any portion of the Work that does not conform with the Contract Documents.

2.3.13 “Design Professional” means the licensed architect or engineer, and its consultants, retained by the Owner to perform design services for the Project.

2.3.14 “Final Completion” occurs on the date when the Constructor’s obligations under this Agreement are complete and accepted by the Owner and final payment becomes due and payable. This date shall be confirmed by a Certificate of Final Completion signed by the Owner and the Constructor.

2.3.15 “Interim Directed Change” is a change to the Work directed by the Owner pursuant to section 8.2.

2.3.16 “Laws” mean federal, state, and local laws, ordinances, codes, rules, and regulations applicable to the Work with which the Constructor must comply that are enacted as of the Agreement date.

2.3.17 “Material Supplier” is a person or entity retained by the Constructor to provide material and equipment for the Work.

2.3.18 “Others” means other contractors/constructors, material suppliers, and persons at the Worksite who are not employed by the Constructor or Subcontractors.

2.3.19 “Overhead” means (a) payroll costs and other compensation of Constructor employees in the Constructor’s principal and branch offices; (b) general and administrative expenses of the Constructor’s principal and branch offices including charges against the Constructor for delinquent payments; and (c) the Constructor’s capital expenses, including interest on capital used for the Work.

2.3.20 “Owner” is the person or entity identified in 0 and includes the Owner’s Representative.

2.3.21 “Owner’s Representative” is the individual employed by the Owner who shall be fully acquainted with the Project, shall act as the prime point of contact between Owner and Owner’s Project Architect, shall provide the Owner’s instructions to Owner’s Project Architect, and shall have authority to bind the Owner in all matters requiring the Owner’s approval, authorization, or written notice.

2.3.22 “Parties” are collectively the Owner and the Constructor.

2.3.23 “Project,” as identified in 0, is the construction, installation, repair or other improvements for which the Constructor is to perform Work under this Agreement. It may also include construction by the Owner or Others.

2.3.24 “Project Architect” is the individual retained by the Owner to perform day-to-day field observations of the Project on Owner’s behalf and shall be the prime point of contact for Constructor. The Project Architect shall possess full authority to receive instructions from Owner and to act on those instructions.

2.3.25 “Schedule of the Work” is the document prepared by the Constructor that specifies the dates on which the Constructor plans to begin and complete various parts of the Work, including dates on which information and approvals are required from the Owner.

2.3.26 “Subcontractor” is a person or entity retained by the Constructor as an independent contractor to provide the labor, materials, equipment, or services necessary to complete a specific

portion of the Work. The term Subcontractor does not include the Design Professional or Others. All subcontractors shall hold valid Public Works Contractor licenses pursuant to Idaho Code § 54-1902.

2.3.27 "Substantial Completion" of the Work occurs on the date when the Work is sufficiently complete in accordance with the Contract Documents so that the Owner may occupy or utilize the Project, or a designated portion, for the use for which it is intended, without unscheduled disruption. This date shall be confirmed by a Certificate of Substantial Completion signed by the Owner and Constructor.

2.3.28 "Subsubcontractor" is a person or entity who has an agreement with a Subcontractor or another Subsubcontractor to perform a portion of the Subcontractor's Work.

2.3.29 "Terrorism" means a violent act, or an act that is dangerous to human life, property, or infrastructure, that is committed by an individual or individuals and that appears to be part of an effort to coerce a civilian population or to influence the policy or affect the conduct of any government by coercion. Terrorism includes, but is not limited to, any act certified by the United States government as an act of terrorism pursuant to the Terrorism Risk Insurance Act, as amended.

2.3.30 "Work" means the construction and services necessary or incidental to fulfill the Constructor's obligations for the Project in conformance with this Agreement and the other Contract Documents. The Work may refer to the whole Project or only a part of the Project if work is also being performed by the Owner or Others.

2.3.30.1 "Changed Work" means work that is different from the original scope of Work; or work that changes the Contract Price or Contract Time.

2.3.31 "Worksite" means the geographical area of the Project Location as identified in 0 where the Work is to be performed.

### **ARTICLE 3 CONSTRUCTOR'S RESPONSIBILITIES**

#### **3.1 GENERAL RESPONSIBILITIES**

3.1.1 The Constructor shall provide all labor, materials, equipment, and services (except those items specifically identified in the Contract Documents as products, equipment, systems or materials that Owner shall provide) necessary to complete the Work, all of which shall be provided in full accord with and reasonably inferable from the Contract Documents.

3.1.2 The Constructor shall be responsible for the supervision and coordination of the Work, including the construction means, methods, techniques, sequences, and procedures utilized, unless the Contract Documents give other specific instructions. In such case, the Constructor shall not be liable to the Owner for damages resulting from compliance with such instructions unless the Constructor recognized and failed to timely report to the Project Architect any error, inconsistency, omission, or unsafe practice that it discovered in the specified construction means, methods, techniques, sequences, or procedures.

3.1.3 The Constructor shall perform Work only within locations allowed by the Contract Documents, Laws, and applicable permits.

#### **3.2 COOPERATION WITH WORK OF OWNER AND OTHERS**

3.2.1 The Owner may perform work at the Worksite directly or by Others. Any agreements with Others to perform construction or operations related to the Project shall include provisions

pertaining to insurance, indemnification, waiver of subrogation, consequential damages, coordination, interference, cleanup, and safety that are substantively the same as the corresponding provisions of this Agreement.

3.2.2 If the Owner elects to perform work at the Worksite directly or by Others, the Constructor and the Owner shall coordinate the activities of all forces at the Worksite and agree upon fair and reasonable schedules and operational procedures for Worksite activities. The Owner shall require each separate contractor to cooperate with the Constructor and assist with the coordination of activities and the review of construction schedules and operations. The Contract Price and Contract Time shall be equitably adjusted, as mutually agreed by the Parties, for changes made necessary by the coordination of construction activities, and the Schedule of the Work shall be revised accordingly. The Constructor, the Owner, and Others shall adhere to the revised construction schedule.

3.2.3 With regard to the work of the Owner and Others, the Constructor shall: (a) proceed with the Work in a manner that does not hinder, delay, or interfere with the work of the Owner or Others or cause the work of the Owner or Others to become defective; (b) afford the Owner or Others reasonable access for introduction and storage of their materials and equipment and performance of their activities; and (c) coordinate the Constructor's Work with theirs.

3.2.4 Before proceeding with any portion of the Work affected by the construction or operations of the Owner or Others, the Constructor shall give the Owner prompt written notification of any defects the Constructor discovers in their work which will prevent the proper execution of the Work. The Constructor's obligations in this subsection do not create a responsibility for the work of the Owner or Others, but are for the purpose of facilitating the Work. If the Constructor does not notify the Owner of defects interfering with the performance of the Work, the Constructor acknowledges that the work of the Owner or Others is not defective and is acceptable for the proper execution of the Work. Following receipt of written notice from the Constructor of defects, the Owner shall promptly inform the Constructor what action, if any, the Constructor shall take with regard to the defects.

### 3.3 RESPONSIBILITY FOR PERFORMANCE

3.3.1 Prior to commencing the Work, the Constructor shall examine and compare the drawings and specifications with information furnished by the Owner that are Contract Documents, relevant field measurements made by the Constructor, and any visible conditions at the Worksite affecting the Work.

3.3.2 Should the Constructor discover any errors, omissions, or inconsistencies in the Contract Documents, the Constructor shall promptly report them to Owner's Project Architect and Owner's Representative. It is recognized, however, that the Constructor is not acting in the capacity of a licensed design professional, and that the Constructor's examination is to facilitate construction and does not create an affirmative responsibility to detect errors, omissions, or inconsistencies or to ascertain compliance with applicable laws, building codes, or regulations. Following receipt of written notice from the Constructor of defects, the Owner shall promptly inform the Constructor what action, if any, the Constructor shall take with regard to the defects.

3.3.3 The Constructor shall have no liability for errors, omissions, or inconsistencies discovered under this section 3.3 unless the Constructor knowingly fails to report a recognized problem to the Owner's Project Architect and Owner's Representative.

3.3.4 The Constructor may be entitled to additional costs or time because of clarifications or instructions arising out of the Constructor's reports described in this section 3.3.

3.3.5 Nothing in this section 3.3 shall relieve the Constructor of responsibility for its own errors, inconsistencies, and omissions.

### 3.4 CONSTRUCTION PERSONNEL AND SUPERVISION

3.4.1 The Constructor shall provide competent supervision for the performance of the Work. Before commencing the Work, the Constructor shall notify the Project Architect and Owner's Representative in writing of the name and qualifications of its proposed Constructor's Project Manager so the Project Architect and Owner's Representative may review the individual's qualifications. If, for reasonable cause, the Project Architect and/or Owner's Representative refuses to approve the individual or withdraws its approval after once giving it, the Constructor shall name a different Constructor's Project Manager for the Owner's review. Any disapproved Project Manager shall not perform in that capacity thereafter at the Worksite.

3.4.2 The Constructor shall be responsible to the Owner for acts or omissions of parties or entities performing portions of the Work for or on behalf of the Constructor or any of its Subcontractors.

3.4.3 The Constructor shall permit only qualified persons to perform the Work. The Constructor shall enforce safety procedures, strict discipline, and good order among persons performing the Work. If the Owner determines that a particular person does not follow safety procedures, or is unfit or unskilled for the assigned Work, the Constructor shall immediately reassign the person upon receipt of the Owner's written notice to do so.

3.4.4 CONSTRUCTOR'S PROJECT MANAGER The Constructor's authorized Project Manager is [REDACTED]. The Constructor's Project Manager shall possess full authority to receive instructions from the Owner directly or through Owner's Project Architect and to act on those instructions. If the Constructor changes the Constructor's Project Manager or his/her authority, the Constructor shall immediately notify the Project Architect in writing.

3.5 WORKMANSHIP The Work shall be executed in accordance with the Contract Documents in a workmanlike manner. All materials used in the Work shall be furnished in sufficient quantities to facilitate the proper and expeditious execution of the Work and shall be new except such materials as may be expressly provided in the Contract Documents to be otherwise.

3.6 MATERIALS FURNISHED BY THE OWNER OR OTHERS If the Work includes installation of materials or equipment furnished by the Owner or Others, it shall be the responsibility of the Constructor to examine the items so provided and thereupon handle, store, and install the items, unless otherwise provided in the Contract Documents, with such skill and care as to provide a satisfactory and proper installation. Loss or damage due to acts or omissions of the Constructor shall be the responsibility of the Constructor and may be deducted from any amounts due or to become due the Constructor. Any defects discovered in such materials or equipment shall be reported at once to the Project Architect. Following receipt of written notice from the Constructor of defects, the Project Architect shall promptly inform the Constructor what action, if any, the Constructor shall take with regard to the defects.

### 3.7 TESTS AND INSPECTIONS

3.7.1 The Constructor shall schedule all required tests, approvals, and inspections of the Work or portions thereof at appropriate times so as not to delay the progress of the Work or other work related to the Project. The Constructor shall give proper notice to all required parties of such tests, approvals, and inspections. If feasible, the Project Architect, Owner's Representative and Others may timely observe the tests at the normal place of testing. Except as provided in subsection 3.7.3 and the Drawings and Specifications, the Owner shall bear all expenses associated with tests, inspections, and approvals required by the Contract Documents, which, unless otherwise agreed to, shall be conducted by an independent testing laboratory or entity retained by the Owner. Unless otherwise required by the Contract Documents, required certificates of testing, approval, or inspection shall be secured by the Constructor and promptly delivered to the Project Architect, with copies to the Owner's Representative.



3.7.2 If the Owner or appropriate authorities determine that tests, inspections, or approvals in addition to those required by the Contract Documents will be necessary, the Constructor shall arrange for the procedures and give timely notice to the Owner and Others who may observe the procedures. Costs of the additional tests, inspections, or approvals are at the Owner's expense except as provided in subsection 3.7.3.

3.7.3 If the procedures described in the two subsections above indicate that portions of the Work fail to comply with the Contract Documents due to negligence of the Constructor, the Constructor shall be responsible for costs of correction and retesting.

### 3.8 WARRANTY

3.8.1 The Constructor warrants that all materials and equipment shall be new unless otherwise specified, of good quality, in conformance with the Contract Documents, and free from defective workmanship and materials. At the Owner's request, the Constructor shall furnish satisfactory evidence of the quality and type of materials and equipment furnished. The Constructor further warrants that the Work shall be free from material defects not intrinsic in the design or materials required in the Contract Documents. The Constructor's warranty does not include remedies for defects or damages caused by normal wear and tear during normal usage, use for a purpose for which the Project was not intended, improper or insufficient maintenance, modifications performed by the Owner or Others, or abuse. The Constructor's warranty shall commence on the Date of Substantial Completion of the Work, or of a designated portion.

3.8.2 To the extent products, equipment, systems or materials incorporated in the Work are specified and purchased by the Owner, they shall be covered exclusively by the warranty of the manufacturer. There are no warranties which extend beyond the description on the face of any such warranty.

3.8.3 The Constructor shall obtain from its Subcontractors and Material Suppliers any special or extended warranties required by the Contract Documents. All such warranties shall be listed in an attached exhibit to this Agreement. After that period, the Constructor shall provide reasonable assistance to the Owner in enforcing the obligations of Subcontractors or Material Suppliers for such extended warranties.

### 3.9 CORRECTION OF WORK WITHIN TWO YEARS

3.9.1 If, prior to Substantial Completion and within two years after the date of Substantial Completion of the Work, any Defective Work is found, the Owner shall promptly notify the Constructor in writing. Unless the Owner provides written acceptance of the condition, the Constructor shall promptly correct the Defective Work at its own cost and time and bear the expense of additional services required for correction of any Defective Work for which it is responsible. If within the two-year correction period the Owner discovers and does not promptly notify the Constructor or give the Constructor an opportunity to test or correct Defective Work as reasonably requested by the Constructor, the Owner waives the Constructor's obligation to correct that Defective Work as well as the Owner's right to claim a breach of the warranty with respect to that Defective Work.

3.9.2 With respect to any portion of Work first performed after Substantial Completion, the two-year correction period shall be extended by the period of time between Substantial Completion and the actual performance of the later Work. Correction periods shall not be extended by corrective work performed by the Constructor.

3.9.3 If the Constructor fails to correct Defective Work within a reasonable time after receipt of written notice from the Owner prior to final payment, the Owner may correct it in accordance with the Owner's right to carry out the Work. In such case, an appropriate Change Order shall be issued deducting the cost of correcting the Defective Work from payments then or thereafter due the

Constructor. If payments then or thereafter due the Constructor are not sufficient to cover such amounts, the Constructor shall pay the difference to the Owner within forty-five (45) days.

3.9.4 The Constructor's obligations and liability, if any, with respect to any Defective Work discovered after the two-year correction period shall be determined by the Law. If, after the two-year correction period but before the applicable limitation period has expired, the Owner discovers any Work which the Owner considers Defective Work, the Owner shall, unless the Defective Work requires emergency correction, promptly notify the Constructor and allow the Constructor an opportunity to correct the Work if the Constructor elects to do so. If the Constructor elects to correct the Work, it shall provide written notice of such intent within fourteen (14) Days of its receipt of notice from the Owner and shall complete the correction of Work within a mutually agreed timeframe. If the Constructor does not elect to correct the Work, the Owner may have the Work corrected by itself or Others, and, if the Owner intends to seek recovery of those costs from the Constructor, the Owner shall promptly provide the Constructor with an accounting of the correction costs it incurs.

3.9.5 If the Constructor's correction or removal of Defective Work causes damage to or destroys other completed or partially completed Work or existing buildings, the Constructor shall be responsible for the cost of correcting the destroyed or damaged property.

3.9.6 The two-year period for correction of Defective Work does not constitute a limitation period with respect to the enforcement of the Constructor's other obligations under the Contract Documents.

3.9.7 Prior to final payment, at the Owner's option and with the Constructor's agreement, the Owner may elect to accept Defective Work rather than require its removal and correction. In such case, the Contract Price shall be equitably adjusted for any diminution in the value of the Project caused by such Defective Work.

### 3.10 CORRECTION OF COVERED WORK

3.10.1 On request of the Project Architect, Work that has been covered without a requirement that it be inspected prior to being covered may be uncovered for the Project Architect's and, if desired the Owner's inspection. The Owner shall pay for the costs of uncovering and replacement if the Work proves to be in conformance with the Contract Documents, or if the defective condition was caused by the Owner or Others. If the uncovered Work proves to be defective, the Constructor shall pay the costs of uncovering and replacement.

3.10.2 If, contrary to specific requirements in the Contract Documents or contrary to a specific request from the Project Architect or Owner, a portion of the Work is covered, the Project Architect or Owner, by written request, may require the Constructor to uncover the Work for the Project Architect's and, if desired the Owner's observation. In this circumstance, the Work shall be replaced at the Constructor's expense and with no adjustment to the Contract Time.

### 3.11 SAFETY OF PERSONS AND PROPERTY

3.11.1 SAFETY PRECAUTIONS AND PROGRAMS The Constructor shall have overall responsibility for safety precautions and programs in the performance of the Work. However, such obligation does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work or for compliance with Laws.

3.11.2 The Constructor shall seek to avoid injury, loss, or damage to persons or property by taking reasonable steps to protect: (a) its employees and other persons at the Worksite; (b) materials and equipment stored at onsite or offsite locations for use in the Work; and (c) property located at the Worksite and adjacent to Work areas, whether or not the property is part of the Worksite.

3.11.3 CONSTRUCTOR'S SAFETY REPRESENTATIVE The Constructor's Worksite safety representative is [REDACTED], who shall act as the Constructor's Worksite safety representative with a duty to prevent accidents. If no individual is identified in this subsection, the Constructor's safety representative shall be the Constructor's Project Manager. The Constructor shall report promptly in writing to the Project Architect, with a copy to the Owner's Representative, all recordable accidents and injuries occurring at the Worksite. When the Constructor is required to file an accident report with a public authority, the Constructor shall furnish a copy of the report to the Project Architect and Owner's Representative.

3.11.4 The Constructor shall provide the Project Architect and Owner's Representative with copies of all notices required of the Constructor by law or regulation. The Constructor's safety program shall comply with the requirements of governmental and quasi-governmental authorities having jurisdiction.

3.11.5 Damage or loss not insured under property insurance which may arise from the Work, to the extent caused by the negligent acts or omissions of the Constructor, or anyone for whose acts the Constructor may be liable, shall be promptly remedied by the Constructor.

3.11.6 If the Project Architect deems any part of the Work or Worksite unsafe, the Project Architect, without assuming responsibility for the Constructor's safety program, may require the Constructor to stop performance of the Work or take corrective measures satisfactory to the Project Architect, or both. If the Constructor does not adopt corrective measures, the Owner may perform them and deduct their cost from the Contract Price. The Constructor agrees to make no claim for damages, for an increase in the Contract Price or for a change in the Contract Time based on the Constructor's compliance with the Project Architect's or Owner's reasonable request.

3.12 EMERGENCIES In an emergency affecting the safety of persons or property, the Constructor shall act in a reasonable manner to prevent threatened damage, injury, or loss. If appropriate, an equitable adjustment in the Contract Price or Contract Time resulting from the actions of the Constructor in an emergency situation shall be determined as provided for in ARTICLE 8.

### 3.13 HAZARDOUS MATERIALS

3.13.1 A Hazardous Material is any substance or material identified now or in the future as hazardous under Laws, or any other substance or material that may be considered hazardous or otherwise subject to statutory or regulatory requirement governing handling, disposal, or cleanup. The Constructor shall not be obligated to commence or continue work until any Hazardous Material discovered at the Worksite has been removed, rendered, or determined to be harmless by the Owner as certified by an independent testing laboratory and approved by the appropriate governmental agency.

3.13.2 If after commencing the Work, Hazardous Material is discovered at the Worksite, the Constructor shall be entitled to immediately stop Work in the affected area. The Constructor shall promptly report the condition to the Project Architect and Owner's Representative and, if required, the governmental agency with jurisdiction.

3.13.3 The Constructor shall not be required to perform any Work relating to or in the area of Hazardous Material without written mutual agreement.

3.13.4 The Owner shall be responsible for retaining an independent testing laboratory to determine the nature of the material encountered and whether the material requires corrective measures or remedial action. Such measures shall be the sole responsibility of the Owner, and shall be performed in a manner minimizing any adverse effect upon the Work. The Constructor shall resume Work in the area affected by any Hazardous Material only upon written agreement between the Parties after the Hazardous Material has been removed or rendered harmless and only after approval, if necessary, of the governmental agency with jurisdiction.

3.13.5 If the Constructor incurs additional costs or is delayed due to the presence or remediation of Hazardous Material, the Constructor shall be entitled to an equitable adjustment in the Contract Price or the Contract Time.

3.13.6 To the extent permitted by section 6.9 and to the extent not caused by the negligent acts or omissions of the Constructor, its Subcontractors and Subsubcontractors, and the agents, officers, directors, and employees of each of them, the Owner shall defend, indemnify, and hold harmless the Constructor, its Subcontractors and Subsubcontractors, and the agents, officers, directors, and employees of each of them, from and against all claims, damages, losses, costs, and expenses, including but not limited to reasonable attorneys' fees, costs, and expenses incurred in connection with any dispute resolution process, arising out of or relating to the performance of the Work in any area affected by Hazardous Material.

### 3.13.7 MATERIALS BROUGHT TO THE WORKSITE

3.13.7.1 Material Safety Data (MSD) sheets as required by law and pertaining to materials or substances used or consumed in the performance of the Work, whether obtained by the Constructor, Subcontractors, the Owner, or Others, shall be maintained at the Worksite by the Constructor and made available to the Project Architect, Subcontractors, and Others.

3.13.7.2 The Constructor shall be responsible for the proper delivery, handling, application, storage, removal, and disposal of all materials and substances brought to the Worksite by the Constructor, its Subcontractors, or both, in accordance with the Contract Documents and used or consumed in the performance of the Work.

3.13.7.3 To the extent caused by the negligent acts or omissions of the Constructor, its agents, officers, directors, and employees, the Constructor shall indemnify and hold harmless the Owner, its agents, officers, directors, and employees, from and against any and all claims, damages, losses, costs, and expenses, including but not limited to attorneys' fees, costs, and expenses incurred in connection with any dispute resolution procedure, arising out of or relating to the delivery, handling, application, storage, removal, and disposal of all materials and substances brought to the Worksite by the Constructor, its Subcontractors, or both, in accordance with the Contract Documents.

3.13.7.4 This section 3.13.7 shall survive the completion of the Work or any termination of this Agreement.

### 3.14 SUBMITTALS

3.14.1 The Constructor shall submit to the Project Architect all shop drawings, samples, product data, and similar submittals required by the Contract Documents for review and approval. The Constructor shall be responsible for the accuracy and conformity of its submittals to the Contract Documents. At no additional cost, the Constructor shall prepare and deliver its submittals in a manner consistent with the Schedule of the Work and in such time and sequence so as not to delay the performance of the Work or the work of the Owner and Others. Constructor submittals shall identify in writing for each submittal all changes, deviations, or substitutions from the requirements of the Contract Documents. The approval of any Constructor submittal shall not be deemed to authorize changes, deviations or substitutions from the requirements of the Contract Documents unless express written approval is obtained from the Project Architect specifically authorizing such deviation, substitution or change. To the extent a change, deviation or substitution causes an impact to the Contract Price or Contract Time, such approval shall be promptly memorialized in a Change Order. Neither the Project Architect nor Owner shall make any change, deviation or substitution through the submittal process without specifically identifying and authorizing such deviation to the Constructor.

3.14.2 The Constructor agrees upon request to submit in a timely fashion to the Project Architect, with copies to the Owner's Representative, for review any shop drawings, samples, product data, manufacturers' literature or similar submittals as may reasonably be required by the Project Architect.

3.14.3 The Constructor shall perform all Work strictly in accordance with approved submittals. Approval of shop drawings is not an authorization to perform changed work, unless the procedures of ARTICLE 8 are followed. Approval does not relieve the Constructor from responsibility for Defective Work resulting from errors or omissions on the approved shop drawings.

3.14.4 No substitutions shall be made in the Work unless permitted in the Contract Documents and then only after the Constructor obtains approvals required under the Contract Documents for substitutions. All such substitutions shall be promptly memorialized in a Change Order no later than seven (7) Days following approval by the Project Manager and the Owner and, if applicable, Design Professional provide for an adjustment in the Contract Price or Contract Time.

3.14.5 As-Built Documents: The Constructor shall maintain at the Worksite for the Owner one (1) copy of each of the Drawings and Specifications, Addenda, Change Orders, and other modifications, in good order and marked to indicate field changes and selections made during construction; and one (1) copy or sample of approved shop Drawings, Product Data, Samples, and similar required submittals.

3.15.5.1 General: Retain copy of each submittal made and each Addenda, Change Order, and Contract amendment issued affecting Contract Documents during the Construction Period for Project As-Built Document purposes. Post changes and modifications to Project As-Built Documents as they occur; do not wait until the end of the Project.

3.15.5.2 Maintenance of As-Built Documents: Store Project As-Built Documents in the field apart from the Contract Documents used for construction. Do not use Project As-Built Documents for construction purposes. Maintain Project As-Built Documents in good order and in clean, dry, legible condition, protected from deterioration and loss. Provide access to Project As-Built Documents for Project Architect's reference during normal working hours.

(a) Project Architect shall evaluate As-Built Drawings for document condition, order, legibility, accuracy and completeness. Project Architect shall notify Constructor of acceptance or request revisions or replacements and resubmittal. Constructor shall supply acceptable As-Built Drawings within seven (7) Days and prior to Final Payment for the Project.

(b) Project Architect shall be responsible for creating digital Record Drawings incorporating the mark-ups on the As-Built Drawings submitted by the Constructor. Project Architect will issue digital Record Drawings to the Constructor and Owner within fourteen (14) Days following Final Payment and distribute a minimum of one (1) copy each of Record Drawings to Owner, Landscape Architect and Constructor.

3.15.8.4 As Built Specifications and Record Specifications: Maintain at the Worksite for the Owner a copy of Contract Documents for purposes of annotating where the actual product installation varies from that indicated. Submit the annotated portions of the Contract Documents to Project Architect prior to requesting a Substantial Completion Inspection. Project Architect may request corrections from the Constructor to make the submittal more legible and complete. Project Architect shall be responsible for maintaining its own records on variations in product installations, assembling Record

Specifications for the Project in a digital format and for distributing them to the Owner and Constructor at the conclusion of the Project. In preparing the Record Specifications, Project Architect shall:

- (a) Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
- (b) Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
- (c) Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
- (d) Note related Change Orders and Record Drawings where applicable.

### 3.15 WORKSITE CONDITIONS

3.15.1 WORKSITE VISIT The Constructor acknowledges that it has visited, or has had the opportunity to visit, the Worksite to visually inspect the general and local conditions which could affect the Work.

3.15.2 CONCEALED OR UNKNOWN SITE CONDITIONS If the conditions encountered at the Worksite are (a) subsurface or other physical conditions materially different from those indicated in the Contract Documents, or (b) unusual and unknown physical conditions materially different from conditions ordinarily encountered and generally recognized as inherent in Work provided for in the Contract Documents, the Constructor shall stop affected Work after the condition is first observed and give prompt written notice of the condition to the Project Architect. The Constructor shall not be required to perform any Work relating to the unknown condition without the written mutual agreement of the Parties. Any change in the Contract Price or the Contract Time as a result of the unknown condition shall be determined as provided in ARTICLE 8.

### 3.16 PERMITS AND TAXES

3.16.1 The Constructor shall give public authorities all notices required by law and shall obtain and pay for all necessary permits, licenses, and renewals pertaining to the Work. The Constructor shall provide to the Project Architect and the Owner's Representative copies of all notices, permits, licenses, and renewals required under this Agreement.

3.16.2 The Constructor shall pay all applicable taxes enacted when bids are received or negotiations concluded for the Work provided by the Constructor.

3.16.3 If, in accordance with the Owner's direction, the Constructor claims an exemption for taxes, the Owner shall indemnify and hold the Constructor harmless from any liability, penalty, interest, fine, tax assessment, attorneys' fees, or other expense or cost incurred by the Constructor as a result of any such action.

### 3.17 CUTTING, FITTING, AND PATCHING

3.17.1 The Constructor shall perform cutting, fitting and patching necessary to coordinate the various parts of the Work and to prepare its Work for the work of the Owner or Others.

3.17.2 Cutting, patching or altering the work of the Owner or Others shall be done with the prior written approval of the Owner. Such approval shall not be unreasonably withheld.

### 3.18 CLEANING UP

3.18.1 The Constructor shall regularly remove debris and waste materials at the Worksite resulting from the Work. Prior to discontinuing Work in an area, the Constructor shall clean the area and remove all rubbish and its construction equipment, tools, machinery, waste, and surplus materials. The Constructor shall minimize and confine dust and debris resulting from construction activities. At the completion of the Work, the Constructor shall remove from the Worksite all construction equipment, tools, surplus materials, waste materials, and debris.

3.18.2 If the Constructor fails to commence compliance with cleanup duties within two (2) Business Days after written notification from the Project Architect of non-compliance, the Project Architect may implement appropriate cleanup measures without further notice and shall deduct the reasonable costs from any amounts due or to become due the Constructor in the next payment period.

3.19 ACCESS TO WORK The Constructor shall facilitate the access of the Project Architect, Owner, and Others to Work in progress.

3.20 COMPLIANCE WITH LAWS The Constructor shall comply with all Laws at its own costs. The Constructor shall be liable to the Owner for all loss, cost, or expense attributable to any acts or omissions by the Constructor, its employees, subcontractors, and agents for failure to comply with Laws, including fines, penalties, or corrective measures. However, liability under this section shall not apply if notice to the Project Architect was given, and advance approval by appropriate authorities, including the Owner, is received.

3.20.1 The Contract Price or Contract Time shall be equitably adjusted by Change Order for additional costs resulting from any changes in Laws, including increased taxes, which were not reasonably anticipated and then enacted after the date of this Agreement.

3.21 CONFIDENTIALITY Unless compelled by law, a governmental agency or authority, an order of a court of competent jurisdiction, or a validly issued subpoena, the Constructor shall treat as confidential and not disclose to third-persons, except Subcontractors, Subsubcontractors, and Material Suppliers as is necessary for the performance of the Work, or use for its own benefit, any of the Owner's confidential information, know-how, discoveries, production methods, and the like that may be disclosed to the Constructor or which the Constructor may acquire in connection with the Work. The Owner shall treat as confidential information, all of the Constructor's estimating systems and historical and parameter cost data that may be disclosed to the Owner in connection with the performance of this Agreement. The Owner and the Constructor shall each specify those items to be treated as confidential and shall mark them as "Confidential." In the event of a legal compulsion or other order seeking disclosure of any Confidential Information, the Constructor or Owner, as the case may be, shall promptly notify the other Party to permit that Party's legal objection, if necessary.

## ARTICLE 4 OWNER'S RESPONSIBILITIES

4.1 INFORMATION AND SERVICES Any information or services to be provided by Owner shall be fulfilled with reasonable detail and in a timely manner.

4.2 WORKSITE INFORMATION To the extent the Owner has obtained, or is required elsewhere in the Contract Documents to obtain, the following Worksite information, the Owner shall provide at the Owner's expense and with reasonable promptness:

4.2.1 Information describing the physical characteristics of the Worksite, including surveys, Worksite evaluations, legal descriptions, data or drawings depicting existing conditions, subsurface conditions, and environmental studies, reports, and investigations. Legal descriptions shall include easements, title restrictions, boundaries, and zoning restrictions. Worksite descriptions shall include existing buildings and other construction and all other pertinent Worksite conditions. Adjacent property descriptions shall include structures, streets, sidewalks, alleys, and other features relevant to the Work. Utility details shall include available services, lines at the Worksite and adjacent thereto, and connection points. The information shall include public and private information, subsurface information, grades, contours, and elevations, drainage data, exact locations and dimensions, and benchmarks that can be used by the Constructor in laying out the Work;

4.2.2 Tests, inspections, and other reports dealing with environmental matters, Hazardous Material and other existing conditions, including structural, mechanical, and chemical tests, required by the Contract Documents or by Law; and

4.2.3 Any other information or services requested in writing by the Constructor which are required for the Constructor's performance of the Work and under the Owner's control.

4.3 OWNER'S CUTTING AND PATCHING Cutting, patching, or altering the Work by the Owner or Others shall be done with the prior written approval of the Constructor, which approval shall not be unreasonably withheld.

4.4 OWNER'S RIGHT TO CLEAN UP In case of a dispute between the Constructor and Others with regard to respective responsibilities for cleaning up at the Worksite, the Owner may implement appropriate cleanup measures after two (2) Business Days' notice and allocate the cost among those responsible during the following pay period.

4.5 COST OF CORRECTING DAMAGED OR DESTROYED WORK With regard to damage or loss attributable to the acts or omissions of the Owner or Others and not to the Constructor, the Owner may either (1) promptly remedy the damage or loss or (2) accept the damage or loss. If the Constructor incurs additional costs or is delayed due to such loss or damage, the Constructor shall be entitled to an equitable adjustment in the Contract Price or Contract Time.

## **ARTICLE 5 SUBCONTRACTS**

5.1 SUBCONTRACTORS The Work not performed by the Constructor with its own forces shall be performed by Subcontractors holding valid Public Works Contractor licenses pursuant to Idaho Code § 54-1902. All subcontracts shall be issued on a lump sum basis unless the Owner has given prior written approval of a different method of payment to the Subcontractor.

5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK Promptly after the award of this Agreement, the Constructor shall provide the Project Architect and Owner's Representative with a written list of the proposed Subcontractors and significant Material suppliers.

5.3 BINDING OF SUBCONTRACTORS AND MATERIAL SUPPLIERS The Constructor agrees to bind every Subcontractor and Material Supplier (and require every Subcontractor to so bind its subcontractors and material suppliers) to all the provisions of this Agreement and the Contract Documents as they apply to the Subcontractor's or Material Supplier's portions of the Work.

### **5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS**

5.4.1 If this Agreement is terminated, each subcontract and supply agreement shall be assigned by the Constructor to the Owner, subject to the prior rights of any surety, provided that:



5.4.1.1 this Agreement is terminated by the Owner pursuant to sections 11.3 or 11.4; and

5.4.1.2 the Owner accepts such assignment after termination by notifying the Subcontractor and Constructor in writing, and assumes all rights and obligations of the Constructor pursuant to each subcontract agreement.

5.4.2 If the Owner accepts such an assignment, and the Work has been suspended for more than thirty (30) consecutive Days, following termination, if appropriate, the Subcontractor's compensation shall be equitably adjusted as a result of the suspension.

## ARTICLE 6 TIME

6.1 DATE OF COMMENCEMENT The Constructor shall not commence the Work until it receives a written notice to proceed from the Owner. The notice to proceed shall identify the Date of Commencement.

6.2 SUBSTANTIAL/FINAL COMPLETION Substantial Completion of the Work shall be achieved in **NINETY (90) Days from** the Date of Commencement. Unless otherwise specified in the Certificate of Substantial Completion, the Constructor shall achieve Final Completion within TWENTY-ONE (21) Days after the date of Substantial Completion. The deadlines for Substantial and Final Completion are subject to adjustments as provided for in the Contract Documents.

6.3 Time is of the essence for this Agreement and the Contract Documents.

6.4 Unless instructed by the Owner in writing, the Constructor shall not knowingly commence the Work before the effective date of insurance and bonds to be provided by the Constructor or the Owner as required by the Contract Documents.

### 6.5 SCHEDULE OF THE WORK

6.5.1 Before submitting the first application for payment, the Constructor shall submit to the Project Architect and Owner's Representative for approval a Schedule of the Work showing the dates on which the Constructor plans to commence and complete various parts of the Work, including dates on which information and approvals are required from the Project Architect. The Constructor shall comply with the approved Schedule of the Work, unless directed by the Project Architect to do otherwise or the Constructor is otherwise entitled to an adjustment in the Contract Time. The Constructor shall update the Schedule of the Work on a monthly basis or at appropriate intervals as required by the conditions of the Work and the Project.

6.5.2 The Project Architect may determine the sequence in which the Work shall be performed, provided it does not unreasonably interfere with the Schedule of the Work. The Owner may require the Constructor to make reasonable changes in the sequence at any time during the performance of the Work in order to facilitate the performance of work by the Owner or Others. To the extent such changes increase the Constructor's costs or time, the Contract Price and Contract Time shall be equitably adjusted.

### 6.6 DELAYS AND EXTENSIONS OF TIME

6.6.1 If the Constructor is delayed at any time in the commencement or progress of the Work by any cause beyond the control of the Constructor, the Constructor shall be entitled to an equitable extension of the Contract Time. Examples of causes beyond the control of the Constructor include, but are not limited to, the following: (a) acts or omissions of the Project Architect, Owner, or Others; (b) changes in the Work or the sequencing of the Work ordered by the Project Architect or Owner, or arising from decisions of the Project Architect or Owner that impact the time of performance of the Work; (c) encountering Hazardous Materials, or concealed or unknown conditions; (d) delay

authorized by the Project Architect or Owner pending dispute resolution or suspension by the Owner under section 11.1; (e) transportation delays not reasonably foreseeable; (f) labor disputes not involving the Constructor; (g) general labor disputes impacting the Project but not specifically related to the Worksite; (h) fire; (i) Terrorism; (j) epidemics; (k) adverse governmental actions; (l) unavoidable accidents or circumstances; (m) adverse weather conditions not reasonably anticipated. The Constructor shall submit any requests for equitable extensions of Contract Time in accordance with the provisions of ARTICLE 8.

6.6.2 In addition, if the Constructor incurs additional costs as a result of a delay that is caused by items (a) through (d) immediately above, the Constructor shall be entitled to an equitable adjustment in the Contract Price subject to section 6.9.

6.6.3 NOTICE OF DELAYS If delays to the Work are encountered for any reason, the Constructor shall provide prompt written notice to the Project Architect with a copy to the Owner's Representative of the cause of such delays after the Constructor first recognizes the delay. The Owner and the Constructor agree to take reasonable steps to mitigate the effect of such delays.

6.7 NOTICE OF DELAY CLAIMS If the Constructor requests an equitable extension of the Contract Time or an equitable adjustment in the Contract Price as a result of a delay described in the section above, the Constructor shall give the Owner written notice of the claim in accordance with section 8.4. If the Constructor causes delay in the completion of the Work, the Owner shall be entitled to recover its additional costs subject to section 6.9. The Owner shall process any such claim against the Constructor in accordance with ARTICLE 8.

#### 6.8 LIQUIDATED DAMAGES

6.8.1 SUBSTANTIAL COMPLETION The Owner and the Constructor agree that this Agreement shall provide for the imposition of liquidated damages based on the Date of Substantial Completion.

6.8.1.1 The Constructor understands that if the Date of Substantial Completion established by this Agreement, as may be amended by subsequent Change Order, is not attained, the Owner will suffer damages which are difficult to determine and accurately specify. The Constructor agrees that if the Date of Substantial Completion is not attained, the Constructor shall pay the Owner TWO HUNDRED FIFTY DOLLARS (\$250.00) as liquidated damages and not as a penalty for each Day that Substantial Completion extends beyond the Date of Substantial Completion. The liquidated damages provided herein shall be in lieu of all liability for any and all extra costs, losses, expenses, claims, penalties, and any other damages of whatsoever nature incurred by the Owner which are occasioned by any delay in achieving the Date of Substantial Completion.

6.8.2 FINAL COMPLETION The Owner and the Constructor agree that this Agreement shall provide for the imposition of liquidated damages based on the Date of Final Completion.

6.8.2.1 The Constructor understands that if the Date of Final Completion established by this Agreement, as may be amended by subsequent Change Order, is not attained, the Owner will suffer damages which are difficult to determine and accurately specify. The Constructor agrees that if the Date of Final Completion is not attained, the Constructor shall pay the Owner TWO HUNDRED FIFTY DOLLARS (\$250.00) as liquidated damages and not as a penalty for each Day that Final Completion extends beyond the Date of Final Completion. The liquidated damages provided herein shall be in lieu of all liability for any and all extra costs, losses, expenses, claims, penalties, and any other damages of whatsoever nature incurred by the Owner which are occasioned by any delay in achieving the Date of Final Completion.

6.8.3 OTHER LIQUIDATED DAMAGES The Owner and the Constructor may agree upon the imposition of liquidated damages based on other project milestones or performance requirements. Such agreement shall be included as an exhibit to this Agreement.

6.9 LIMITED MUTUAL WAIVER OF CONSEQUENTIAL DAMAGES Except for damages mutually agreed upon by the Parties as liquidated damages in subsections 6.8 and excluding losses covered by insurance required by the Contract Documents, the Owner and the Constructor agree to waive all claims against each other for any consequential damages that may arise out of or relate to this Agreement, except for those specific items of damages excluded from this waiver as mutually agreed upon by the Parties and identified below. The Owner agrees to waive damages, including but not limited to the Owner's rental expenses incurred, loss of financing related to the Project, as well as the loss of financing not related to this Project, loss of reputation, or insolvency. The Constructor agrees to waive damages, including but not limited to loss of business, loss of financing, loss of profits not related to this Project, loss of bonding capacity, loss of reputation, or insolvency. The provisions of this section shall also apply to the termination of this Agreement and shall survive such termination.

6.9.1 The Owner and the Constructor shall require similar waivers in contracts with Subcontractors and Others retained for the Project.

## **ARTICLE 7 PRICE**

7.1 LUMP SUM As full compensation for performance by the Constructor of the Work in conformance with the Contract Documents, the Owner shall pay the Constructor the lump sum price of [REDACTED] DOLLARS (\$ [REDACTED]). The lump sum price is hereinafter referred to as the Contract Price, which shall be subject to increase or decrease as provided in ARTICLE 8.

## **ARTICLE 8 CHANGES**

Changes in the Work that are within the general scope of this Agreement shall be accomplished, without invalidating this Agreement, by Change Order and Interim Directed Change.

### **8.1 CHANGE ORDER**

8.1.1 The Constructor may request or the Owner may order changes in the Work or the timing or sequencing of the Work that impacts the Contract Price or the Contract Time. All such changes in the Work that affect Contract Time or Contract Price shall be formalized in a Change Order.

8.1.2 NO OBLIGATION TO PERFORM The Constructor shall not be obligated to perform changes in the Work that impact Contract Price or Contract Time until a Change Order has been executed or a written Interim Directed Change has been issued.

### **8.2 INTERIM DIRECTED CHANGE**

8.2.1 The Owner may issue a written Interim Directed Change directing a change in the Work prior to reaching agreement with the Constructor on the adjustment, if any, in the Contract Price or the Contract Time.

8.2.2 The Owner and the Constructor shall negotiate expeditiously and in good faith for appropriate adjustments, as applicable, to the Contract Price or the Contract Time arising out of an Interim Directed Change. As the changed Work is performed, the Constructor shall submit its costs for such Work with its application for payment beginning with the next application for payment within thirty (30) Days of the issuance of the Interim Directed Change. If there is a dispute as to the cost to the Owner, the Owner shall pay the Constructor fifty percent (50%) of its estimated cost to perform such

Work. In such event, the Parties reserve their rights as to the disputed amount, subject to the requirements of ARTICLE 12.

8.2.3 When the Owner and the Constructor agree upon the adjustment in the Contract Price or the Contract Time, for a change in the Work directed by an Interim Directed Change, such agreement shall be the subject of a Change Order. The Change Order shall include all outstanding Interim Directed Changes on which the Owner and Constructor have reached agreement on Contract Price or Contract Time issued since the last Change Order.

### 8.3 DETERMINATION OF COST

8.3.1 An increase or decrease in the Contract Price or the Contract Time resulting from a change in the Work shall be determined by one or more of the following methods:

8.3.1.1 Unit prices set forth in this Agreement or as subsequently agreed;

8.3.1.2 A mutually accepted, itemized lump sum;

8.3.2 Cost of the Work shall include the following costs necessarily and reasonably incurred by Constructor to perform a change in the Work:

8.3.2.1 Wages paid for labor in the direct employ of the Constructor in the performance of the Work;

8.3.2.2 Salaries of the Constructor's employees when stationed at the field office or branch office to the extent necessary to complete the applicable Work and employees engaged on the road expediting the production or transportation of material and equipment;

8.3.2.3 Cost of applicable employee benefits and taxes, including but not limited to, workers' compensation, unemployment compensation, social security, health, welfare, retirement and other fringe benefits as required by law, labor agreements, or paid under the Constructor's standard personnel policy, insofar as such costs are paid to employees of the Constructor who are included in the Cost of the Work in subsections .1 and .2 immediately above;

8.3.2.4 Reasonable transportation, travel, and hotel expenses of the Constructor's personnel incurred in connection with the Work;

8.3.2.5 Cost of all materials, supplies, and equipment incorporated in the Work, including costs of inspection and testing if not provided by the Owner, transportation, storage, and handling;

8.3.2.6 Payments made by the Constructor to Subcontractors for Work performed under this Agreement;

8.3.2.7 Cost, including transportation and maintenance of all materials, supplies, equipment, temporary facilities, and hand tools not owned by the workers that are used or consumed in the performance of the Work, less salvage value or residual value; and cost less salvage value of such items used, but not consumed that remain the property of the Constructor;

8.3.2.8 Rental charges of all necessary machinery and equipment, exclusive of hand tools owned by workers, used at the Worksite, whether rented from the Constructor or Others, including installation, repair and replacement, dismantling, removal, maintenance, transportation, and delivery costs. Rental from unrelated third parties shall be reimbursed at actual cost. Rentals from the Constructor or its affiliates, subsidiaries, or related parties

shall be reimbursed at the prevailing rates in the locality of the Worksite up to eighty-five percent (85%) of the value of the piece of equipment;

8.3.2.9 Cost of the premiums for all insurance and surety bonds which the Constructor is required to procure or deems necessary, and approved by the Owner including any additional premium incurred as a result of any increase in the cost of the Work;

8.3.2.10 Sales, use, gross receipts or other taxes, tariffs, or duties related to the Work for which the Constructor is liable;

8.3.2.11 Permits, fees, licenses, tests, and royalties;

8.3.2.12 Reproduction costs, photographs, facsimile transmissions, long-distance telephone calls, data processing costs and services, postage, express delivery charges, data transmission, telephone service, and computer-related costs at the Worksite to the extent such items are used and consumed in the performance of the Work or are not capable of use after completion of the Work;

8.3.2.13 All water, power, and fuel costs necessary for the Work;

8.3.2.14 Cost of removal of all nonhazardous substances, debris, and waste materials;

8.3.2.15 All costs directly incurred to perform a change in the Work which are reasonably inferable from the Contract Documents for the Changed Work.

8.3.3 DISCOUNTS All discounts for prompt payment shall accrue to the Owner. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment, shall be credited to the Cost of the Work.

8.3.4 COST REPORTING The Constructor shall maintain in conformance with generally accepted accounting principles a complete and current set of records that are prepared or used by the Constructor to calculate the Cost of Work. The Owner shall be afforded access to the Constructor's records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda and similar data relating to requested payment for Cost of the Work. The Constructor shall preserve all such records for a period of three years after the final payment or longer where required by law.

8.3.5 COST AND SCHEDULE ESTIMATES The Constructor shall use reasonable skill and judgment in the preparation of a cost estimate or schedule for a change to the Work, but does not warrant or guarantee their accuracy.

8.3.6 If an increase or decrease in the Contract Price or Contract Time cannot be agreed to as set forth in subsection 8.3.1, and the Owner issues an Interim Directed Change, the cost of the change in the Work shall be determined by the reasonable actual expense incurred and savings realized in the performance of the Work resulting from the change. If there is a net increase in the Contract Price, the Constructor's Overhead and profit shall be adjusted accordingly. In case of a net decrease in the Contract Price, the Constructor's Overhead and profit shall not be adjusted unless ten percent (10%) or more of the Project is deleted. The Constructor shall maintain a documented, itemized accounting evidencing the expenses and savings.

8.3.7 UNIT PRICES If unit prices are set forth in the Contract Documents or are subsequently agreed to by the Parties, but the character or quantity of such unit items as originally contemplated is so different in a proposed Change Order that the original unit prices will cause substantial inequity to the Owner or the Constructor, such unit prices shall be equitably adjusted.

8.3.8 If the Owner and the Constructor disagree as to whether work required by the Owner is within the scope of the Work, the Constructor shall furnish the Owner with an estimate of the costs to

perform the disputed work in accordance with the Owner's interpretations. If the Owner issues a written order for the Constructor to proceed, the Constructor shall perform the disputed work and the Owner shall pay the Constructor fifty percent (50%) of its estimated cost to perform the work. In such event, both Parties reserve their rights as to whether the work was within the scope of the Work, subject to the requirements of ARTICLE 12. The Owner's payment does not prejudice its right to be reimbursed should it be determined that the disputed work was within the scope of the Work. The Constructor's receipt of payment for the disputed work does not prejudice its right to receive full payment for the disputed work should it be determined that the disputed work is not within the scope of the Work.

#### 8.4 CLAIMS FOR ADDITIONAL COST OR TIME

8.4.1 Except as provided in subsection 6.6.2 and section 6.7 for any claim for an increase in the Contract Price or the Contract Time, the Constructor shall give the Owner written notice of the claim, including appropriate supporting documentation, within five (5) Business Days after the occurrence giving rise to the claim or within five (5) Business Days after the Constructor first recognizes the condition giving rise to the claim, whichever is later. Except in an emergency, notice shall be given before proceeding with the Work.

8.4.2 Suspension of Work: Constructor shall not proceed with work which would alter, cover, damage or destroy evidence in support of Constructor's Claim. If Constructor proceeds to perform Work, with or without notice to Project Architect, that alters, covers, damages or destroys evidence in support of Constructor's Claim, Constructor is indicating by proceeding its acceptance and agreement that the work performed does not add to the Contract Sum or Contract Time.

8.4.3 Action on Change Order: Project Architect shall review the Claim and shall forward recommendations to Owner regarding the Claim within five (5) business days. Negotiation of changes to the Contract Sum and/or Contract Time between the Owner and Contractor shall follow the procedures set forth in the Contract Documents.

8.4.4 Owner and Project Architect shall respond in writing approving or denying the Constructor's claim no later than fourteen (14) Days after receipt of the Constructor's claim. Owner's failure to so respond shall be deemed a denial of the claim. Any change in the Contract Price or the Contract Time resulting from such claim shall be authorized by Change Order.

8.5 INCIDENTAL CHANGES The Project Architect may direct the Constructor to perform incidental changes in the Work, upon concurrence with the Constructor that such changes do not involve adjustments in the Contract Price or Contract Time. Incidental changes shall be consistent with the scope and intent of the Contract Documents. The Project Architect shall initiate an incidental change in the Work by issuing a written order to the Constructor. Such written notice shall be carried out promptly and is binding on the Parties.

### ARTICLE 9 PAYMENT

9.1 SCHEDULE OF VALUES In accordance with requirements in Division 01 Section 01 29 00 for "Schedule of Values," the Constructor shall prepare and submit to the Project Architect a Schedule of Values apportioned to the various divisions or phases of the Work. Each line item contained in the Schedule of Values shall be assigned a value such that the total of all items shall equal the Contract Price. Maintain the Schedule of Values during the construction period. If the Schedule of Values is revised, submit the updated Schedule of Values for Project Architect's review and approval after each meeting or other activity where revisions have been recognized or made.

#### 9.2 APPLICATIONS FOR PAYMENT

9.2.1 PROGRESS PAYMENTS In accordance with requirements in Division 01 Section 01 29 00 for "Applications for Payment", the Constructor shall submit to the Project Architect a monthly application for payment no later than the 5th Business Day of the calendar month for the preceding thirty (30) Days. Constructor's applications for payment shall be itemized and supported by the Constructor's Schedule of Values and any other substantiating data as required by this Agreement. Applications for payment shall include payment requests on account of properly authorized Change Orders or Interim Directed Changes. The Owner shall pay the amount otherwise due on any payment application, as certified by the Project Architect, no later than thirty (30) Days after the Constructor has submitted a complete and accurate payment application and the Owner has approved the Constructor's payment application, or such shorter time period as required by applicable state statute. The Owner may deduct from any progress payment amounts that may be retained pursuant to subsection 9.2.4. The initial Application for Payment and the Applications for Payment at Substantial Completion and Final Completion have additional requirements as stated in Division 01 Section 01 29 00 "Applications for Payment".

9.2.2 STORED MATERIALS AND EQUIPMENT Unless otherwise provided in the Contract Documents, applications for payment may include materials and equipment not yet incorporated into the Work but delivered to and suitably stored onsite or offsite including applicable insurance, storage, and costs incurred in transporting the materials to an offsite storage facility. Approval of payment applications for stored materials and equipment stored offsite shall be conditioned on a submission by the Constructor of bills of sale and proof of required insurance, or such other documentation satisfactory to the Owner to establish the proper valuation of the stored materials and equipment, the Owner's title to such materials and equipment, and to otherwise protect the Owner's interests therein, including transportation to the Worksite.

9.2.3 LIEN WAIVERS AND LIENS Constructor acknowledges Owner is a public entity, that any property owned by Owner is considered public property, and that liens on public property are not enforceable. Constructor agrees that it shall not file any liens against property owned or controlled by Owner or by Ada County Highway District ("ACHD") which is a part of the Worksite (the "Property"). Constructor agrees that no lien will be at any time be filed against the Property, or any part thereof, by any of Constructor's subcontractors or other person employed by or furnishing labor, services, equipment, or materials to Constructor or any of its subcontractors for, in, or about the performance of the Work. The preceding clause will be inserted in all of the Constructor's or any of its subcontractor's purchase orders and material agreements. Subject to Owner's payment of the compensation in accordance with the terms of this Agreement, Constructor will promptly discharge all liens, if any, filed against the Property by Constructor's subcontractors, suppliers and materialmen, and agents and persons employed by any of such persons.

9.2.4 RETAINAGE From each progress payment made prior to Substantial Completion, the Owner may retain FIVE percent (5%) of the amount otherwise due after deduction of any amounts as provided in section 9.3, and in no event shall such percentage exceed any applicable statutory requirements. If the Owner chooses to use this retainage provision:

9.2.4.1 the Owner may, in its sole discretion, reduce the amount to be retained at any time;

9.2.4.2 the Owner may release retainage on that portion of the Work a Subcontractor has completed in whole or in part, and which the Owner has accepted. In lieu of retainage, the Constructor may furnish a retention bond or other security interest acceptable to the Owner, to be held by the Owner.

9.3 ADJUSTMENT OF CONSTRUCTOR'S PAYMENT APPLICATION The Owner may adjust or reject a payment application or nullify a previously approved payment application, in whole or in part, as may reasonably be necessary to protect the Owner from loss or damage based upon the following, to the extent that the Constructor is responsible under this Agreement:

9.3.1 the Constructor's repeated failure to perform the Work as required by the Contract Documents;

9.3.2 Except as accepted by the insurer providing builders risk or other property insurance covering the project, loss or damage arising out of or relating to this Agreement and caused by the Constructor to the Owner or to Others to whom the Owner may be liable;

9.3.3 the Constructor's failure to properly pay Subcontractors and Material Suppliers following receipt of such payment from the Owner;

9.3.4 rejected, nonconforming or Defective Work not corrected in a timely fashion;

9.3.5 reasonable evidence of delay in performance of the Work such that the Work will not be completed within the Contract Time;

9.3.6 reasonable evidence demonstrating that the unpaid balance of the Contract Price is insufficient to fund the cost to complete the Work; and

9.3.7 uninsured third-party claims involving the Constructor, or reasonable evidence demonstrating that third-party claims are likely to be filed unless and until the Constructor furnishes the Owner with adequate security in the form of a surety bond, letter of credit, or other collateral or commitment sufficient to discharge such claims if established.

No later than seven (7) Days after receipt of an application for payment, the Project Architect shall give written notice to the Constructor, at the time of disapproving or nullifying all or part of an application for payment, stating its specific reasons for such disapproval or nullification, and the remedial actions to be taken by the Constructor in order to receive payment. When the above reasons for disapproving or nullifying an application for payment are removed, payment will be promptly made for the amount previously withheld.

9.4 ACCEPTANCE OF WORK Neither the Owner's payment of progress payments nor its partial or full use or occupancy of the Project constitutes acceptance of Work not complying with the Contract Documents.

9.5 PAYMENT DELAY If for any reason not the fault of the Constructor, the Constructor does not receive a progress payment from the Owner within seven (7) Days after the time such payment is due, then the Constructor, upon giving seven (7) Days' written notice to the Owner, and without prejudice to and in addition to any other legal remedies, may stop Work until payment of the full amount owing to the Constructor has been received. Interest shall not accrue on any unpaid amounts. The Contract Price and Contract Time shall be equitably adjusted by a Change Order for reasonable cost and delay resulting from shutdown, delay and start-up.

#### 9.6 SUBSTANTIAL COMPLETION

9.6.1 CLOSEOUT PROCEDURES The Constructor shall comply with the requirements stated in Division 01 Section 01 77 00 CLOSEOUT PROCEDURES, in conjunction with Constructor's compliance with the requirements in sections 9.6 and 9.7.

9.6.2 The Constructor shall notify the Project Architect and, if directed, the Owner, when it considers Substantial Completion of the Work or a designated portion to have been achieved. The Project Architect and Owner's Representative shall promptly conduct an inspection to determine whether the Work or designated portion can be occupied or used for its intended use by the Owner without excessive interference in completing any remaining unfinished Work. If the Project Architect determines that the Work or designated portion has not reached Substantial Completion, the Project Architect shall promptly compile a list of items ("Punch List") to be completed or corrected so the



Owner may occupy or use the Work or designated portion for its intended use. The Constructor shall promptly complete all items on the Punch List and the list compiled by the Project Architect.

9.6.3 When Substantial Completion of the Work or a designated portion is achieved, the Owner shall prepare a Certificate of Substantial Completion establishing the date of Substantial Completion and the respective responsibilities of the Owner and Constructor for interim items such as security, maintenance, utilities, insurance, and damage to the Work. In the absence of a clear delineation of responsibilities, the Owner shall assume all responsibilities for items such as security, maintenance, utilities, insurance, and damage to the Work. The Certificate of Substantial Completion shall also list any items to be completed or corrected, and establish the time for their completion or correction. The Certificate of Substantial Completion shall be submitted first to the Project Architect for written concurrence that Substantial Completion has been achieved and then to the Constructor for written acceptance of responsibilities assigned in the Certificate of Substantial Completion. The Certificate of Substantial Completion with signatures from the Project Architect and the Constructor shall be submitted to the Owner for Owner's signature indicating Owner's acceptance of responsibilities assigned to the Owner in the Certificate of Substantial Completion and approval of the Certificate. A copy of the signed Certificate of Substantial Completion shall be provided to the Constructor.

9.6.4 Unless otherwise provided in the Certificate of Substantial Completion, warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or a designated portion.

9.6.5 Upon the Owner's written acceptance and issuance of the Certificate of Substantial Completion, the Owner shall pay to the Constructor the remaining retainage held by the Owner for the Work described in the Certificate of Substantial Completion, less a sum equal to two hundred percent (200%) of the estimated cost of completing or correcting remaining items on that part of the Work, as agreed to by the Owner and Constructor as necessary to achieve Final Completion. Uncompleted items shall be completed by the Constructor in a mutually agreed upon timeframe. The Owner shall pay the Constructor monthly the amount retained for unfinished items as each item is completed.

## 9.7 PARTIAL OCCUPANCY OR USE

9.7.1 The Owner may occupy or use completed or partially completed portions of the Work when: (a) the portion of the Work is designated in a Certificate of Substantial Completion; (b) appropriate insurer(s) consent to the occupancy or use; and (c) appropriate public authorities authorize the occupancy or use. Such partial occupancy or use shall constitute Substantial Completion of that portion of the Work.

## 9.8 FINAL COMPLETION AND FINAL PAYMENT

9.8.1 CLOSEOUT PROCEDURES The Constructor shall comply with the requirements in Division 01 Section 01 77 00 CLOSEOUT PROCEDURES, in conjunction with Constructor's compliance with the requirements in this section.

9.8.2 INSPECTION Upon notification from the Constructor that the Work is complete and ready for final inspection and acceptance, the Project Architect and Owner's Representative shall promptly conduct an inspection to determine if the Work has been completed and is acceptable under the Contract Documents.

9.8.3 If the Project Architect and Owner's Representative determine that the Project has attained Final Completion, the Project Architect shall request the following submissions from the Constructor:

- (a) an affidavit declaring any indebtedness connected with the Work, e.g. payrolls or invoices for materials or equipment, to have been paid, satisfied, or to be paid with the proceeds of final payment, so as not to encumber the Owner's property;

- (b) as-built drawings and specifications, manuals, copies of warranties, and all other close-out documents required by the Contract Documents;
- (c) release of any liens, conditioned on final payment being received;
- (d) consent of any surety;
- (e) any outstanding known and unreported accidents or injuries experienced by the Constructor or its Subcontractors at the Worksite; and
- (f) any other submissions required by Section 01 77 00 CLOSEOUT PROCEDURES.

9.8.4 When Final Completion has been achieved, the Constructor shall prepare for the Owner's written acceptance a final application for payment stating that to the best of the Constructor's knowledge, and based on the Owner's inspections, the Work has reached Final Completion in accordance with the Contract Documents.

9.8.5 Upon receipt of a final application for payment and Constructor's satisfactory completion of closeout procedures stated in sections 9.6 and 9.8, the Project Architect shall prepare a Certificate of Final Completion establishing the date of Final Completion. Upon signature by the Project Architect, the Certificate of Final Completion shall be submitted to the Constructor for signature. The Certificate of Final Completion with signatures from the Project Architect and the Constructor shall be returned to the Owner for Owner's signature indicating Owner's approval of the Certificate of Final Completion. A copy of the signed Certification of Final Completion shall be provided to the Constructor. The Project Architect's signature on the Final Completion Certificate shall signify the following: (a) Final Completion has been achieved; (b) Project has been inspected and complies with the requirements of the Contract Documents; and (c) Constructor has submitted all required closeout submittals and completed all required closeout procedures.

9.8.6 Final payment of the balance of the Contract Price shall be made to the Constructor within thirty (30) Days after the Constructor has submitted a complete and accurate application for final payment, has satisfactorily completed the requirements as set forth in sections 9.6 and 9.8 above, and a Certificate of Final Completion has been executed by the Owner and the Constructor.

9.8.7 If, after Substantial Completion of the Work, the Final Completion of a portion of the Work is materially delayed through no fault of the Constructor, the Owner shall pay the balance due for portion(s) of the Work fully completed and accepted. If the remaining contract balance for Work not fully completed and accepted is less than the retained amount prior to payment, the Constructor shall submit to the Project Architect the written consent of any surety to payment of the balance due for portions of the Work that are fully completed and accepted. Such payment shall not constitute a waiver of claims, but otherwise shall be governed by these final payment provisions.

9.8.8 OWNER RESERVATION OF CLAIMS Claims not reserved in writing by the Owner with the making of final payment shall be waived except for claims relating to liens or similar encumbrances, warranties, Defective Work, and latent defects.

9.8.9 ACCEPTANCE OF FINAL PAYMENT Unless the Constructor provides written identification of unsettled claims with an application for final payment, its acceptance of final payment constitutes a waiver of such claims.

9.9 LATE PAYMENT Payments due but unpaid shall bear interest from the date payment is due at the rate allowed by the State of Idaho.

## **ARTICLE 10 INDEMNITY, INSURANCE, AND BONDS**

### **10.1 INDEMNITY**

10.1.1 To the fullest extent permitted by law, the Constructor shall indemnify and hold harmless the Owner, the Owner's officers, directors, members, consultants, agents, and employees, the Design Professionals and the Design Professionals' officers, directors, members, consultants, agents, and employees and Others (the Indemnitees) from all claims for bodily injury and property damage, other than to the Work itself and other property insured, including reasonable attorneys' fees, costs and expenses, that may arise from the performance of the Work, but only to the extent caused by the negligent or intentional acts or omissions of the Constructor, Subcontractors, or anyone employed directly or indirectly by any of them or by anyone for whose acts any of them may be liable. The Constructor shall be entitled to reimbursement of any defense costs paid above the Constructor's percentage of liability for the underlying claim to the extent provided for by the subsection 10.1.2 below.

10.1.2 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Constructor, its officers, directors, members, consultants, agents, and employees, Subcontractors, or anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable from all claims for bodily injury and property damage, other than property insured, including reasonable attorneys' fees, costs and expenses, that may arise from the performance of work by the Owner, Owner's Representative, the Project Architect, and Others, but only to the extent caused by the negligent acts or omissions of the Owner, Owner's Representative, the Project Architect, or Others. The Owner shall be entitled to reimbursement of any defense costs paid above the Owner's percentage of liability for the underlying claim to the extent provided for by the subsection 10.1.1 above.

10.1.3 NO LIMITATION ON LIABILITY In any and all claims against the Indemnitees by any employee of the Constructor, anyone directly or indirectly employed by the Constructor or anyone for whose acts the Constructor may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Constructor under workers' compensation acts, disability benefit acts, or other employment benefit acts.

### **10.2 INSURANCE**

Constructor's insurance obligations are set forth in Division 01 Section 00 73 16 INSURANCE AND BONDING REQUIREMENTS.

### **10.3 BONDS**

Constructor's bond obligations are set forth Division 01 Section 00 73 16 INSURANCE AND BONDING REQUIREMENTS.

## **ARTICLE 11 SUSPENSION, NOTICE TO CURE, AND TERMINATION**

### **11.1 SUSPENSION BY OWNER FOR CONVENIENCE**

11.1.1 OWNER SUSPENSION Should the Project Architect and/or Owner order the Constructor in writing to suspend, delay, or interrupt the performance of the Work for the convenience of the Owner and not due to any act or omission of the Constructor or any person or entity for whose acts or omissions the Constructor may be liable, then the Constructor shall immediately suspend, delay or interrupt that portion of the Work for the time period ordered by the Project Architect and/or Owner. The Contract Price and the Contract Time shall be equitably adjusted by Change Order for the cost and delay resulting from any such suspension.

11.1.2 Any action taken by the Project Architect and/or Owner that is permitted by any other provision of the Contract Documents and that result in a suspension of part or all of the Work does not constitute a suspension of Work under this section 11.1.

11.2 NOTICE TO CURE A DEFAULT If the Constructor persistently fails to supply enough qualified workers, proper materials, or equipment to maintain the approved Schedule of the Work, or fails to make prompt payment to its workers, Subcontractors, or Material Suppliers, disregards Laws or orders of any public authority having jurisdiction, or is otherwise guilty of a material breach of a provision of this Agreement, the Constructor may be deemed in default. If the Constructor fails within seven (7) Days after receipt of written notice to commence and continue satisfactory correction of such default with diligence and promptness, then the Owner shall give the Constructor a second notice to correct the default within a three (3) Day period. If the Constructor fails to promptly commence and continue satisfactory correction of the default following receipt of such second notice, the Owner without prejudice to any other rights or remedies may: (a) take possession of the Worksite; (b) complete the Work utilizing reasonable means; (c) withhold payment due to the Constructor; and (d) as the Owner deems necessary, supply workers and materials, equipment, and other facilities for the satisfactory correction of the default, and charge the Constructor the costs and expenses, including reasonable Overhead, profit, and attorneys' fees.

11.2.1 In the event of an emergency affecting the safety of persons or property, the Owner may immediately commence and continue satisfactory correction of such default without first giving written notice to the Constructor, but shall give prompt written notice of such action to the Constructor following commencement of the action.

### 11.3 OWNER'S RIGHT TO TERMINATE FOR DEFAULT

11.3.1 TERMINATION BY OWNER FOR DEFAULT If, within seven (7) Days of receipt of a notice to cure pursuant to section 11.2, the Constructor fails to commence and satisfactorily continue correction of the default set forth in the notice to cure, the Owner may notify the Constructor and, if applicable, the surety, that it intends to terminate this Agreement for default absent appropriate corrective action within fourteen (14) additional Days. After the expiration of the additional fourteen (14) Day period, the Owner may terminate this Agreement by written notice absent appropriate corrective action. Termination for default is in addition to any other remedies available to the Owner under section 11.2. If the Owner's costs arising out of the Constructor's failure to cure, including the costs of completing the Work and reasonable attorneys' fees, exceed the unpaid Contract Price, the Constructor shall be liable to the Owner for such excess costs. If the Owner's costs are less than the unpaid Contract Price, the Owner shall pay the difference to the Constructor. If the Owner exercises its rights under this section 11.3, upon the request of the Constructor, the Owner shall furnish to the Constructor a detailed accounting of the costs incurred by the Owner.

11.3.2 USE OF CONSTRUCTOR'S MATERIALS, SUPPLIES, AND EQUIPMENT If the Owner or Others perform work under this section 11.3, the Owner shall have the right to take and use any materials, supplies, and equipment belonging to the Constructor and located at the Worksite for the purpose of completing any remaining Work. Immediately upon completion of the Work, any remaining materials, supplies, or equipment not consumed or incorporated in the Work shall be returned to the Constructor in substantially the same condition as when they were taken, reasonable wear and tear excepted.

11.3.3 If the Constructor files a petition under the Bankruptcy Code, this Agreement shall terminate if the Constructor or the Constructor's trustee rejects the Agreement, or if there has been a default and the Constructor is unable to give adequate assurance that the Constructor will perform as required by this Agreement or otherwise is unable to comply with the requirements for assuming this Agreement under the applicable provisions of the Bankruptcy Code.

11.3.4 The Owner shall make reasonable efforts to mitigate damages arising from Constructor default, and shall promptly invoice the Constructor for all amounts due pursuant to sections 11.2 and 11.3.

11.3.5 If the Owner terminates this Agreement for default, and it is later determined that the Constructor was not in default, or that the default was excusable under the terms of the Contract Documents, then, in such event, the termination shall be deemed a termination for convenience, and the rights of the Parties shall be as set forth in section 11.4.

#### 11.4 TERMINATION BY OWNER FOR CONVENIENCE

11.4.1 Upon written notice to the Constructor, the Owner may, without cause, terminate this Agreement. The Constructor shall immediately stop the Work, follow the Owner's instructions regarding shutdown and termination procedures, and strive to minimize any further costs.

11.4.2 If the Owner terminates this Agreement for Convenience, the Constructor shall be paid: (a) for the Work performed to date including Overhead and profit; and (b) for all demobilization costs and costs incurred as a result of the termination but not including Overhead or profit on Work not performed.

11.4.3 If the Owner terminates this Agreement, the Constructor shall:

11.4.3.1 Execute and deliver to the Owner all papers and take all action required to assign, transfer, and vest in the Owner the rights of the Constructor to all materials, supplies and equipment for which payment has been or will be made in accordance with the Contract Documents and all subcontracts, orders and commitments which have been made in accordance with the Contract Documents;

11.4.3.2 Exert reasonable effort to reduce to a minimum the Owner's liability for subcontracts, orders, and commitments that have not been fulfilled at the time of the termination;

11.4.3.3 Cancel any subcontracts, orders, and commitments as the Owner directs; and

11.4.3.4 Sell at prices approved by the Owner any materials, supplies, and equipment as the Owner directs, with all proceeds paid or credited to the Owner.

#### 11.5 CONSTRUCTOR'S RIGHT TO TERMINATE

11.5.1 Upon seven (7) Days' written notice to the Owner, the Constructor may terminate this Agreement if the Work has been stopped for a thirty (30) Day period through no fault of the Constructor for any of the following reasons:

11.5.1.1 under court order or order of other governmental authorities having jurisdiction;

11.5.1.2 as a result of the declaration of a national emergency or other governmental act during which, through no act or fault of the Constructor, materials are not available; or

11.5.1.3 suspension by the Owner for convenience pursuant to section 11.1

11.5.2 In addition, upon seven (7) Days' written notice to the Owner, the Constructor may terminate this Agreement if the Owner:

11.5.2.1 assigns this Agreement over the Constructor's reasonable objection; or

11.5.2.2 fails to pay the Constructor in accordance with this Agreement and the Constructor has complied with section 9.5; or

11.5.2.3 otherwise materially breaches this Agreement.

11.5.3 Upon termination by the Constructor in accordance with section 11.5, the Constructor shall be entitled to recover from the Owner payment for all Work executed and for any proven loss, cost, or expense in connection with the Work, including all demobilization costs plus reasonable Overhead and profit on Work not performed.

11.6 OBLIGATIONS ARISING BEFORE TERMINATION Even after termination, the provisions of this Agreement still apply to any Work performed, payments made, events occurring, costs charged or incurred or obligations arising before the termination date.

## **ARTICLE 12 DISPUTE MITIGATION AND RESOLUTION**

12.1 WORK CONTINUANCE AND PAYMENT Unless otherwise agreed in writing, the Constructor shall continue the Work and maintain the Schedule of the Work during any dispute mitigation or resolution proceedings. If the Constructor continues to perform, the Owner shall continue to make payments in accordance with this Agreement.

12.2 DIRECT DISCUSSIONS In the event that a dispute arises between Owner and Constructor regarding application or interpretation of any provision of this Agreement, the aggrieved Party shall promptly notify the other Party to this Agreement of the dispute within ten (10) days after such dispute arises. If the Parties shall have failed to resolve the dispute within thirty (30) days after delivery of such notice, the Parties may first endeavor to settle the dispute in an amicable manner by mediation. If the Parties elect to mediate their dispute, the Parties will select a mediator by mutual agreement and agree to each pay half of the mediator's costs and fees. The mediation will take place in Boise, Idaho, unless otherwise agreed by the Parties in writing. Should the Parties be unable to resolve the dispute to their mutual satisfaction within thirty (30) days after such completion of mediation, each Party shall have the right to pursue any rights or remedies it may have at law or in equity. If the Parties do not mutually agree to mediate the dispute, either Party may pursue any rights or remedies it may have at law.

## **ARTICLE 13 MISCELLANEOUS**

13.1 EXTENT OF AGREEMENT Except as expressly provided, this Agreement is for the exclusive benefit of the Parties, and not for the benefit of any third party. This Agreement represents the entire and integrated agreement between the Parties, and supersedes all prior negotiations, representations, or agreements, either written or oral.

13.2 ASSIGNMENT Except as to the assignment of proceeds, the Parties shall not assign their interest in this Agreement without the written consent of the other. The terms and conditions of this Agreement shall be binding upon both Parties, their partners, successors, assigns, and legal representatives. Neither Party shall assign the Agreement as a whole without written consent of the other except that the Owner may assign the Agreement to a wholly owned subsidiary of the Owner when the Owner has fully indemnified the Constructor or to an institutional lender providing construction financing for the Project as long as the assignment is no less favorable to the Constructor than this Agreement. If such assignment occurs, the Constructor shall execute any consent reasonably required. In such event, the wholly owned subsidiary or lender shall assume the Owner's rights and obligations under the Contract Documents. If either Party attempts to make such an assignment, that Party shall nevertheless remain legally responsible for all obligations under this Agreement, unless otherwise agreed in writing by the other Party.

13.3 GOVERNING LAW This Agreement shall be governed by the laws of the State of Idaho.

13.4 SEVERABILITY The partial or complete invalidity of any one or more provisions of this Agreement shall not affect the validity or continuing force and effect of any other provision.

13.5 NO WAIVER OF PERFORMANCE The failure of either Party to insist, in any one or more instances, on the performance of any of the terms, covenants, or conditions of this Agreement, or to exercise any of its rights, shall not be construed as a waiver or relinquishment of such term, covenant, condition, or right with respect to further performance or any other term, covenant, condition, or right.

13.6 TITLES The titles given to the articles are for ease of reference only and shall not be relied upon or cited for any other purpose.

13.7 JOINT DRAFTING The Parties expressly agree that this Agreement was jointly drafted, and that both had opportunity to negotiate its terms and to obtain the assistance of counsel in reviewing its terms prior to execution. Therefore, this Agreement shall be construed neither against nor in favor of either Party, but shall be construed in a neutral manner.

13.8 RIGHTS AND REMEDIES The Parties' rights, liabilities, responsibilities and remedies with respect to this Agreement, whether in contract, tort, negligence or otherwise, shall be exclusively those expressly set forth in this Agreement.

#### **ARTICLE 14 CONTRACT DOCUMENTS**

14.1 EXISTING CONTRACT DOCUMENTS This Contract expressly incorporates the following documents, together with any amendments that may be agreed to in writing by both parties:

Project Manual dated December 19, 2018, including:

PROJECT MANUAL COVER PAGE  
00 01 10 TABLE OF CONTENTS  
00 11 16 INVITATION TO BID  
00 21 13 INSTRUCTIONS TO BIDDERS  
00 25 13 PRE BID MEETING  
00 41 13 BID FORM  
00 45 46 CONTRACTOR'S AFFIDAVIT CONCERNING TAXES  
00 52 13 AGREEMENT BETWEEN OWNER AND CONTRACTOR  
00 62 76 APPLICATION FOR PAYMENT FORM  
00 63 13 REQUEST FOR INFORMATION FORM  
00 63 49 WORK CHANGE DIRECTIVE FORM  
00 73 00 SUPPLEMENTARY CONDITIONS  
00 73 16 INSURANCE AND BONDING REQUIREMENTS  
00 73 73 STATUTORY REQUIREMENTS – TAX COMMISSION  
01 11 00 SUMMARY  
01 25 00 SUBSTITUTION PROCEDURES  
01 26 00 CONTRACT MODIFICATION PROCEDURES  
01 29 00 PAYMENT PROCEDURES  
01 31 00 PROJECT MANAGEMENT AND COORDINATION  
01 33 00 SUBMITTAL PROCEDURES  
01 40 00 QUALITY REQUIREMENTS  
01 50 00 TEMPORARY FACILITIES AND CONTROLS  
01 73 00 EXECUTION  
01 77 00 CLOSEOUT PROCEDURES

ARCHITECTURAL DRAWINGS

A0.1 COVER SHEET / CODE INFO  
A2.1 PARTIAL GARAGE PLAN  
A2.2 BIKE SHELTER PLANS  
A2.3 BIKE SHELTER LAYOUT PLANS  
A3.1 ELEVATIONS  
A4.1 SECTIONS

#### STRUCTURAL DRAWINGS

S1.1 GENERAL STRUCTURAL NOTES  
S1.2 SPECIAL INSPECTIONS  
S2.1 FOUNDATION PLAN  
S3.1 SECTIONS & DETAILS

#### ELECTRICAL DRAWINGS

E0.0 Electrical Symbols and Sheet Index  
E1.0 ELECTRICAL SITE PLAN  
E2.0E BIKE SHELTER ELECTRICAL PLANS  
E2.0L BIKE SHELTER LIGHTING PLAN  
E3.0 ELECTRICAL SCHEDULES  
E4.0 ELECTRICAL SPECIFICATIONS  
E4.1 ELECTRICAL SPECIFICATIONS  
E4.2 ELECTRICAL SPECIFICATIONS

Bid Addenda dated xxxxxx  
Constructor's Bid dated xxxxxx  
Payment and Performance Bonds dated xxxxxx  
Insurance Certificates dated xxxxxx

#### 14.2 INTERPRETATION OF CONTRACT DOCUMENTS

14.2.1 The drawings and specifications are complementary. If Work is shown only on one but not on the other, the Constructor shall perform the Work as though fully described on both, consistent with the Contract Documents and reasonably inferable from them.

14.2.2 In case of conflicts between the drawings and specifications, the specifications shall govern. In any case of omissions or errors in figures, drawings, or specifications, the Constructor shall immediately submit the matter to the Project Architect for clarification. The Project Architect shall confer with the Owner's Representative, and shall issue a clarification to the Constructor. Owner's clarifications are final and binding on all Parties, subject to an equitable adjustment in Contract Time or Contract Price or dispute mitigation and resolution.

14.2.3 Where figures are given, they shall be preferred to scaled dimensions.

14.2.4 Unless otherwise specifically defined in this Agreement, any terms that have well-known technical or trade meanings shall be interpreted in accordance with their well-known meanings.

14.2.5 ORDER OF PRECEDENCE In case of any inconsistency, conflict, or ambiguity among the Contract Documents, the documents shall govern in the following order: (a) Change Orders and written amendments to this Agreement; (b) this Agreement; (c) subject to subsection 14.2.2, the drawings (large scale governing over small scale), specifications, and addenda issued prior to the execution of this Agreement or signed by both Parties; (d) information furnished by the Owner pursuant to subsection 3.13.4 or designated as a Contract Document in section 14.1; (e) other documents listed in this Agreement. Among categories of documents having the same order of



precedence, the term or provision that includes the latest date shall control. Information identified in one Contract Document and not identified in another shall not be considered a conflict or inconsistency.

End of Agreement | *Signatures appear on the following page.*

SAMPLE

IN WITNESS WHEREOF, OWNER AND CONSTRUCTOR have executed this Agreement with an effective date as first written above.

OWNER: Capital City Development Corporation

BY: \_\_\_\_\_  
John Brunelle, Executive Director

Date: \_\_\_\_\_

Approved as to Form

\_\_\_\_\_  
Mary Watson, General Counsel | Contracts Manager

CONSTRUCTOR: [insert company name]

BY: \_\_\_\_\_  
[insert name and title]

Date: \_\_\_\_\_

**END OF DOCUMENT**

Budget Info / For Office Use	
Fund / District	401
Account	6150
Activity Code	19042
PO #	
Contract Term	

END OF SECTION 00 52 13

SECTION 00 62 76 APPLICATION FOR PAYMENT FORM

APPLICATION FOR PAYMENT NO. \_\_\_\_\_

To: Capital City Development Corporation (OWNER)
From: \_\_\_\_\_
Contract: \_\_\_\_\_
Project: \_\_\_\_\_
OWNER's Contract No. \_\_\_\_\_
PROJECT ARCHITECT's Project No. \_\_\_\_\_

For Work accomplished through the date of: \_\_\_\_\_

- 1. Original Contract Price: \$ \_\_\_\_\_
2. Net change by Change Orders and Written Amendments (+/-): \$ \_\_\_\_\_
3. Current Contract Price (1 plus 2): \$ \_\_\_\_\_
4. Total completed and stored to date: \$ \_\_\_\_\_
5. Retainage (per Agreement): \_\_\_\_\_% of completed Work: \$ \_\_\_\_\_
\_\_\_\_\_ % of stored material: \$ \_\_\_\_\_
Total Retainage: \$ \_\_\_\_\_
6. Total completed and stored to date less retainage (4 minus 5): \$ \_\_\_\_\_
7. Less previous Application for Payments: \$ \_\_\_\_\_
8. DUE THIS APPLICATION (6 MINUS 7): \$ \_\_\_\_\_

Accompanying Documentation:

CONTRACTOR'S Certification: The undersigned CONTRACTOR certifies that: 1.) all previous progress payments received from OWNER on account of Work done under the Contract referred to above have been applied on account to discharge CONTRACTOR's legitimate obligations incurred in connection with Work covered by prior Applications for Payment numbered 1 through \_\_\_\_\_ inclusive; 2.) title of all Work, materials, and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to OWNER indemnifying OWNER against any such Lien, security interest or encumbrance); and 3.) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective.

Dated: \_\_\_\_\_ CONTRACTOR

Notarized By: \_\_\_\_\_
State of \_\_\_\_\_
County of \_\_\_\_\_
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Notary Public
My Commission expires: \_\_\_\_\_

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

Dated: \_\_\_\_\_ PROJECT ARCHITECT / OWNER'S PROJECTMANAGER

## **APPLICATION FOR PAYMENT – INSTRUCTIONS**

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### **A. GENERAL INFORMATION**

The sample Schedule of Values (next page) is intended as a guide only. Many projects require a more extensive form with space for numerous items, descriptions of Change Orders, identification of variable quantity adjustments, summary of materials and equipment stored at the site and other information. It is expected that a separate form will be developed by Project Engineer and Contractor at the time Contractor's Schedule of Values is finalized. Note also that the format for retainage must be changed if the Contract permits (or the law provides), and Contractor elects to deposit securities in lieu of retainage. See Division 01 Section 01 10 00 "Applications for Payment" for provisions concerning payments to Contractor.

### **B. COMPLETING THE FORM**

The Schedule of Values, submitted and approved as provided in the General Conditions, should be reproduced as appropriate in the space indicated on the Application for Payment form. Note that the cost of materials and equipment is often listed separately from the cost of installation. Also, note that each Unit Price is deemed to include Contractor's overhead and profit.

All Change Orders affecting the Contract Price should be identified and included in the Schedule of Values as required for progress payments.

The form is suitable for use in the Final Application for Payment as well as for Progress Payments; however, the required accompanying documentation is usually more extensive for final payment. All accompanying documentation should be identified in the space provided on the form.

### **C. LEGAL REVIEW**

All accompanying documentation of a legal nature, such as Lien waivers, should be reviewed by an attorney, and Project Engineer should so advise Owner.

END OF SECTION 00 62 76

<b>Project:</b> 9th & Main Garage - Secure Bike Parking Project							<b>Application No.</b>		1
<b>Contractor:</b>							<b>Application Date</b>		XX/XX/XX
<b>Application for Payment</b>							<b>From</b>		<b>To</b>
<b>Continuation Sheet</b>							<b>Period</b>	XX/XX/XX	XX/XX/XX
A	B	C	D	E	F	G	H	I	J
			Work Completed						
Item No.	Description of Work	Scheduled Value	Previous Application	This Period	Materials Presently Stored	Total Completed & Stored	%	Balance to Finish	Retainage to Date
<i>EXAMPLE ONLY Contractor to List Based on Scope of Work</i>									
1	Mobilization, Bond					\$0.00	#DIV/0!	\$0.00	\$0.00
2	Surface Preparation					\$0.00	#DIV/0!	\$0.00	\$0.00
3	Electrical					\$0.00	#DIV/0!	\$0.00	\$0.00
4	Metalwork					\$0.00	#DIV/0!	\$0.00	\$0.00
5						\$0.00	#DIV/0!	\$0.00	\$0.00
6						\$0.00	#DIV/0!	\$0.00	\$0.00
7						\$0.00	#DIV/0!	\$0.00	\$0.00
		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00
<b>Retainage for This Period</b>				\$0.00	\$0.00				
<b>Application No.</b>									
Total Completed & Stored		\$0.00							
Less Retainage for this Period - Work Completed		\$0.00							
Less Retainage for this Period - Materials Presently Stored		\$0.00							
<b>Total Requested for Payment</b>		<b>\$0.00</b>							

**SECTION 00 63 13 REQUEST FOR INFORMATION FORM**

**REQUEST FOR INFORMATION**

PROJECT: \_\_\_\_\_ RFI#: \_\_\_\_\_

ITEM: \_\_\_\_\_

REF. DWG. OR SPEC.: \_\_\_\_\_

SCHEDULE IMPACT? YES  NO

COST IMPACT? YES  NO

REQUEST RETURN BY: \_\_\_\_\_

DESCRIPTION/REQUEST: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ORIGINATOR: \_\_\_\_\_ FIRM: \_\_\_\_\_ DATE: \_\_\_\_\_

**RESPONSE**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BY: \_\_\_\_\_ FIRM: \_\_\_\_\_ DATE: \_\_\_\_\_

This is not an authorization to proceed with work involving additional costs and/or time. Notification must be given in accordance with the Contract Documents if any response causes any changes to the Contract Documents.

END OF SECTION 00 63 13

SECTION 00 63 49 WORK CHANGE DIRECTIVE FORM

**WORK CHANGE DIRECTIVE FORM**

No. \_\_\_\_\_

DATE OF ISSUANCE \_\_\_\_\_ EFFECTIVE DATE \_\_\_\_\_

OWNER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

Contract: \_\_\_\_\_

Project: \_\_\_\_\_

You are directed to proceed promptly with the following change(s):  
Description:

Purpose of Work Change Directive:

Attachments: (List documents supporting change)

If OWNER or CONTRACTOR believe that the above change has affected Contract Price, any Claim for a Change Order based thereon will involve one or more of the following methods as defined in the Contract Documents.

Method of determining change in Contract Price:

- Unit Prices
- Lump Sum
- Cost of the Work \_\_\_\_\_

Estimated increase (decrease) in Contract Price:  
\$ \_\_\_\_\_.

If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase (decrease) in Contract Times:  
Substantial Completion: \_\_\_\_\_ days;  
Ready for final payment: \_\_\_\_\_ days.

RECOMMENDED:

AUTHORIZED:

PROJECT ARCHITECT  
By: \_\_\_\_\_

OWNER  
By: \_\_\_\_\_

## WORK CHANGE DIRECTIVE – INSTRUCTIONS

---

### A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Times. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order. See Division 01 General Requirements for procedures regarding issuance of Work Change Directives by Project Architect.

For supplemental instructions and minor changes not involving a change in the Contract Price or the Contract Times a Field Order should be used.

### B. COMPLETING THE FORM

Project Manager/Architect initiates the form, including a description of the items involved and attachments.

Based on conversations between Project Architect and Contractor, Project Architect completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the estimated net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Change Directive must be issued to change the estimated price or Contractor may stop the changed Work when the estimated time is reached. If the Work Change Directive is not likely to change the Contract Price, the space for estimated increase (decrease) should be marked "Not Applicable."

Once Project Architect has completed and signed the form, all copies should be sent to Owner for authorization – the Project Manager/Architect alone does not have authority to authorize changes in Price or Times. Once authorized by Owner, a copy should be sent by Project Architect to Contractor. Price and Times may only be changed by Change Order signed by Owner and Contractor with Project Architect's recommendation.

Once the Work covered by this directive is completed or final cost and times are determined, Contractor should submit documentation for inclusion in a Change Order. Division 01 General Requirements requires that a Change Order be initiated and processed to cover any undisputed sum or amount of time for Work actually performed pursuant to this Work Change Directive.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR CONTRACT TIMES. A CHANGE ORDER, IF ANY, SHOULD BE CONSIDERED PROMPTLY.

END OF SECTION 00 63 49



## SECTION 00 73 00 SUPPLEMENTARY CONDITIONS

1. **FEDERAL, STATE, AND LOCAL PAYROLL TAXES:** Neither federal, state or local income taxes, nor payroll taxes of any kind shall be withheld and paid by Owner on behalf of Contractor or the employees of Contractor. Contractor shall not be treated as an employee with respect to the services performed hereunder for federal or state tax purposes. Contractor understands that Contractor is responsible to pay, according to law, Contractor's income tax. Contractor further understands that Contractor may be liable for self-employment (Social Security) tax to be paid by Contractor according to law.
2. **LICENSES AND LAW:** Contractor represents that it possesses the requisite skill, knowledge, and experience necessary, as well as all licenses required to perform the services under this Agreement. Contractor further agrees to comply with all applicable laws, ordinances, and codes of Federal, State and local governments in the performance of the services hereunder.
3. **FRINGE BENEFITS:** Because Contractor is engaged in its own independently established business, Contractor is not eligible for, and shall not participate in, any employee pension, health, or other fringe benefit plans of Owner.
4. **AMENDMENTS:** This Agreement, including the amount of compensation and the Scope of Work, may be amended only in writing, upon mutual agreement of both Owner and Contractor.
5. **DISCRIMINATION PROHIBITED:** In performing the services required herein, Contractor shall not discriminate against any person on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin or ancestry, age, or handicap. Violation of this section shall constitute a material breach of this Agreement and be deemed grounds for cancellation, termination or suspension of the Agreement by Owner, in whole or in part, and may result in ineligibility for further work for Owner.
6. **NUMERATION:** Owner and Contractor acknowledge the Agreement may contain gaps in the numbering of the provisions. Despite the gaps in the numbering, Owner and Contractor acknowledge the Agreement is the complete Agreement between them.
7. **SILENCE OF SPECIFICATION:** The apparent silence of this specification and supplemental specifications as to any detail, or the apparent omission from it of a detailed description concerning any point shall be regarded as meaning that only best commercial practice is to be used. Any exception to this specification shall be cause for rejection. Owner reserves the right to verify specification compliance and other information with published sources as deemed necessary.
8. **ACCIDENT PREVENTION:** The Contractor shall provide and maintain work environments and procedures which will:
  - A. Safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities.
  - B. Comply with all local, County, State, or other applicable legal requirements and will exercise all legally required safety precautions at all times.

- C. Ensure that all Contractor employees who are performing work in the streets wear an appropriate safety vest.
- D. Avoid interruptions of Government operations and delays in Project completion dates; and will exercise due care during the performance of work to protect from damage all existing facilities, structures, landscaping and utilities on local jurisdiction and private property.
- E. For these purposes on contracts for construction or dismantling, demolition, or removal of improvements, the Contractor shall:
  - i) Provide appropriate safety barricades, signs, and signal lights;
  - ii) Ensure that any additional measures the Owner determines to be reasonably necessary for the purposes are taken.
  - iii) Take every reasonable effort to keep sidewalks, vehicle travel lanes, driveways and crosswalks open at all times.
  - v) Report to Owner immediately any Contractor caused damages.
  - vi) Effect the prompt repair any damage to any public property incurred while installing the required items. Repairs to be completed as quickly as is reasonably possible and as required by local ordinance.

9. EMPLOYMENT OF IDAHO RESIDENTS IN PUBLIC WORKS CONSTRUCTION. Contractor shall comply with Idaho Code § 44-1001 in performing the Work on the Project. **This Code provision is reproduced below for convenience from the State of Idaho website and shall be verified by Contractor.**

44-1001. EMPLOYMENT OF RESIDENTS OF IDAHO -- WAGE SCALE -- FEDERAL FUNDS. In all state, county, municipal, and school construction, repair, and maintenance work under any of the laws of this state the contractor, or person in charge thereof must employ ninety-five percent (95%) bona fide Idaho residents as employees on any such contracts except for procurement authorized in section 67-2808(2), Idaho Code, or where under such contracts fifty (50) or less persons are employed the contractor may employ ten percent (10%) nonresidents, provided however, in such a case employers must give preference to the employment of bona fide Idaho residents in the performance of such work; provided, that in work involving the expenditure of federal aid funds this act shall not be enforced in such a manner as to conflict with or be contrary to the federal statutes prescribing a labor preference to honorably discharged members of the United States armed forces, including airmen, soldiers, sailors, and marines, prohibiting as unlawful any other preference or discrimination among the citizens of the United States.

END OF SECTION 00 73 00

## SECTION 00 73 16 INSURANCE AND BONDING REQUIREMENTS

### **Insurance**

Upon execution of the Contract and prior to commencing any Work under the Contract, Contractor shall obtain at its sole cost and expense and thereafter maintain, for the duration of the Contract, at least the minimum insurance coverages set forth below:

- (a) Worker's compensation insurance as required by applicable law or regulation;
- (b) Employer's liability insurance in the minimum amount of \$100,000 each accident for bodily injury, \$100,000 each employee for bodily injury by disease and \$500,000 policy limit for bodily injury by disease;
- (c) Commercial General Liability ("CGL") insurance covering all operations by or on behalf of Contractor with minimum limits of liability of \$1,000,000 for each occurrence and \$2,000,000 aggregate for both bodily injury and property damage. Contractor may provide insurance up to the required limits through a CGL policy or through a CGL policy and an umbrella policy.

The aggregate limits shall apply separately to the Project, or the Contractor shall obtain separate insurance to provide the required limit which shall not be subject to depletion because of claims arising out of any other project or activity of the Contractor.

The CGL insurance policy shall name Owner as Additional Insured and shall protect its officers, agents and employees from and against claims for bodily injury, property damage, personal injury and advertising injury that shall be no less comprehensive and no more restrictive than the coverage provided by Insurance Services Office (ISO) form for Commercial General (CG 00 01 04 13).

By its terms or appropriate endorsements such insurance shall include the following coverage, to wit: Bodily Injury, Property Damage, Fire Legal Liability (not less than the replacement value of the portion of the premises occupied), Personal Injury, Blanket Contractual, Independent Contractors, Premises Operations, Products and Completed Operations for a minimum of two (2) years following Final Completion of the Project. The policy cannot be endorsed to exclude the perils of explosion (x), collapse (c) and underground (u) exposures without the specific written approval of the Owner. Owner shall be named as an Additional Insured by the terms of the policy or by an endorsement issued by the insurer; and

- (d) Automobile liability insurance including coverage for owned, hired, and non-owned automobiles. The limits of liability shall not be less than \$1,000,000 combined single limit each accident for bodily injury and property damage combined. Contractor shall require each of its subcontractors to include in their liability insurance policies coverage for automobile contractual liability. The automobile liability insurance policy shall name Owner as Additional Insured and shall protect its officers, agents and employees from and against claims.

All insurance required in the Contract shall be occurrence based coverage as opposed to claims based coverage and shall be procured from companies which are authorized to do business in Idaho.

SECTION 00 73 73 STATUTORY REQUIREMENTS – TAX COMMISSION

Contractor shall complete the WH-5 PUBLIC WORKS CONTRACT REPORT and provide to Owner at the time of execution of the Contract. See WH-5 report on next page.

Do not file with the State Tax Commission; Owner will file the Report.

Idaho Code sections 54-1904A and 63-3624(g) require all public works contracts to be reported to the Tax Commission within thirty (30) days after a contract is awarded.

END OF SECTION 00 73 73

# WH-5 Public Works Contract Report

**Idaho Code sections 54-1904A and 63-3624(g) require all public works contracts to be reported to the Tax Commission. This form must be filed with the Tax Commission within 30 days after a contract is awarded.**

Contract awarded by (public body and address)

Contract awarded to (contractor's name and address)

State of incorporation	Federal Employer Identification Number (EIN)	Date qualified to do business in Idaho
Business operates as <input type="checkbox"/> Sole proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/> LLC	Public Works contractor license number	
Sole proprietor's Social Security number	Idaho sales/use tax permit number	Idaho withholding tax permit number
Awarding agency project number	Amount of contract \$	
Description and location of work to be performed		

## PROJECT DATES

Scheduled project start date: \_\_\_\_\_ Completion date: \_\_\_\_\_

If the following information is not available at this time, please indicate date it will be: \_\_\_\_\_

## ALL SUBCONTRACTORS

Name	Federal EIN	
Address	Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership    Amount of subcontract \$
Description of work		
Name	Federal EIN	
Address	Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership    Amount of subcontract \$
Description of work		
Name	Federal EIN	
Address	Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership    Amount of subcontract \$
Description of work		
Name	Federal EIN	
Address	Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership    Amount of subcontract \$
Description of work		

### ALL SUBCONTRACTORS (CONTINUED)

Name		Federal EIN	
Address		Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership	Amount of subcontract \$
Description of work			

Name		Federal EIN	
Address		Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership	Amount of subcontract \$
Description of work			

Name		Federal EIN	
Address		Public works contractor number	
City, State, ZIP	<input type="checkbox"/> LLC <input type="checkbox"/> Sole proprietorship	<input type="checkbox"/> Corporation <input type="checkbox"/> Partnership	Amount of subcontract \$
Description of work			

### SUPPLIERS

Use the space below to report major suppliers of materials and supplies; items removed from inventory; equipment purchased, rented, or leased for use in project; materials provided by government agency. Please indicate how sales or use tax was paid.

Name		Federal EIN	Total value \$
Address		Materials and equipment purchased and used	
City, State, ZIP	Phone	<input type="checkbox"/> Tax paid to supplier <input type="checkbox"/> Tax paid to state* <input type="checkbox"/> No tax paid	

Name		Federal EIN	Total value \$
Address		Materials and equipment purchased and used	
City, State, ZIP	Phone	<input type="checkbox"/> Tax paid to supplier <input type="checkbox"/> Tax paid to state* <input type="checkbox"/> No tax paid	

Name		Federal EIN	Total value \$
Address		Materials and equipment purchased and used	
City, State, ZIP	Phone	<input type="checkbox"/> Tax paid to supplier <input type="checkbox"/> Tax paid to state* <input type="checkbox"/> No tax paid	

Name		Federal EIN	Total value \$
Address		Materials and equipment purchased and used	
City, State, ZIP	Phone	<input type="checkbox"/> Tax paid to supplier <input type="checkbox"/> Tax paid to state* <input type="checkbox"/> No tax paid	

\* If tax was not paid to suppliers but **was** or **will be** reported as "items subject to use tax" under your permit number, indicate period of return on which payment **was** or **will be** reported: \_\_\_\_\_  
 If tax was paid to a state **other** than Idaho, name state next to "total value" box(es) above. If tax is due and has **not previously been reported**, attach payment to this form. **If you need more room, please photocopy this page.**

SIGN _____ HERE _____	Authorized signature	Print name	Phone number	Date
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File with the Idaho State Tax Commission, PO Box 36, Boise ID 83722-2210.

For more information, call (208) 334-7618 • Fax: (208) 332-6619 • E-mail: [Contractdesk@tax.idaho.gov](mailto:Contractdesk@tax.idaho.gov).

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**SECTION 01 10 00 – SUMMARY****PART 1 - GENERAL**

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
- B. Section Includes:
  - 1. Project information.
  - 2. Work covered by Contract Documents.
  - 3. Definitions.
  - 4. Access to site.
  - 5. Coordination with occupants & other parties affected by construction.
  - 6. Work restrictions.
  - 7. Construction Schedule.
  - 8. Responsibility for Furnishings, Fixtures and Equipment

## 1.2 PROJECT INFORMATION

- A. Project Identification: 9<sup>th</sup> & Main Garage Secure Bike Parking Project (“Project”)
  - 1. Project Location: 9<sup>th</sup> & Main Garage, 848 West Main Street, Boise, Idaho.
- B. Owner: Capital City Development Corporation (CCDC).
  - 1. Owner's Representative: Matt Edmond, CCDC Project Manager  
Telephone: 208-384-4264 (main line);  
[medmond@ccdcb Boise.com](mailto:medmond@ccdcb Boise.com)
- C. Project Architect: C | T | Y STUDIO, PLLC, Boise, Idaho.
  - 1. Rob Thornton  
Telephone: 208-345-2125 (office)  
[rob@ctystudio.com](mailto:rob@ctystudio.com)
- D. Parking Operator: The Car Park, Inc.
  - 1. Contact: Dave Deignan, General Manager;  
Telephone: 208-368-7944, Ext 419,
  - 2. Additional Contact: Dave Duke, Assistant Manager;  
Telephone: 208-368-7944, Ext. 421; 208-972-5421 (direct)



### 1.3 WORK COVERED BY CONTRACT DOCUMENTS (PROJECT SCOPE OR WORK)

- A. The Project Scope or Work is defined by the Contract Documents and is summarized below:
  - 1. Fabricate and install an access-controlled bike parking room in the 9<sup>th</sup> & Main Garage. The extent of the Work is shown in the Drawings and specified in the Project Manual.
- B. Type of Contract:
  - 1. Project will be constructed under a single prime contract.

### 1.4 DEFINITIONS

- A. Substantial Completion: Point in execution of Contract in which the Contractor believes scope of work is complete and Project Architect has reviewed the Work and provided written approval to the Contractor. Refer to Division 01 Section 017700 "Closeout Procedures" for Substantial Completion procedures.
  - 1. The Contractor shall substantially complete the Work within ninety (90) days from the Date of Commencement.

### 1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site for construction operations as indicated by the following requirements.
- B. Use of Site: Limit use of Project site to work in areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
  - 1. Limits: Confine construction operations to Work Areas as shown on Drawings.
  - 2. Driveways, Entrances and Adjacent Sidewalks: Keep Garage driveways, entrances and adjacent sidewalks serving premises clear and available to access at all times. Do not use these areas for parking or storage of materials.
    - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
    - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
  - 3. Storage outside Work Area: May be permitted on Level 5 (roof level) of the garage by cordoning off 1-2 parking stalls or other available floor area in coordination with and approval by the Parking Operator. Storage area shall not interfere with Owner's operations. Limits of storage area shall be marked by fencing, barricades or similar method. Contractor accepts responsibility for the security of any materials or equipment kept in Contractor's storage areas as part of Contract.

## 1.6 COORDINATION WITH OCCUPANTS & OTHER PARTIES AFFECTED BY CONSTRUCTION

A. Partial Owner Occupancy: Owner will occupy the premises during the entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits unless otherwise indicated.

### 1. 9<sup>th</sup> & Main Garage Operations

- a. Garage is open 24 hours per day, 7 days per week.
- b. 9<sup>th</sup> & Main Garage is one of the busiest parking garages in the ParkBOI System catering to monthly parkers and the general public coming to downtown for meeting engagements, dining and shopping.
- c. Traffic Patterns. Peak traffic times are 10:00 a.m. until 2:00 p.m. daily, Monday – Friday.
- d. Garage has a two-way drive aisle connecting Ground Level through Level 5. On Ground Level, the drive aisle provides one-way vehicular/ADA access to a Bank's drive-through operations.
- e. Maintain the traffic route through all levels of the Work Area at all times so parking customers can travel through the Garage and/or access the drive-up Bank teller.
- f. Maintain access to the communal trash facilities adjacent to the project site for tenants and Republic Services.

### 2. Temporary Closures:

- a. At all times, the Garage shall be open to vehicular and pedestrian traffic, parking customers, and the general public on all levels of the Garage, except as otherwise provided in this Section.
- b. Institute temporary closures to protect safety of parking customers, motorists, pedestrians the general public from construction activity and to protect the Work from damage in coordination with the Parking Operator approval.
- c. Notice of Closures: Submit list of proposed closures and method of implementing closures to Parking Operator, Project Architect and Owner's Representative one week prior to Contractor's need for closures. Parking Operator shall indicate its approval or request revisions within two (2) business days of receipt of list.
- d. Partial Closures: Maintain traffic route through all levels at all times so vehicular traffic can travel from street level entrances/exits to the Garage to Levels 1 through 5, as well as the drive-through bank tellers.

### 3. Traffic Management Plan:

- a. Initial Plan: Submit a plan to Owner and Parking Operator for how traffic will be managed during construction operations prior to or at the preconstruction meeting. Obtain approval from Owner and Parking Operator for the traffic management plan prior to commencement of the Work.

- b. Weekly Updates: Provide Parking Operator with a schedule of work to be performed in each upcoming week no later than Wednesday of the preceding week. Include in the schedule any requests for the following items in the upcoming week.
    - 1) Temporary closures of parking stalls.
    - 2) Temporary closure of pedestrian entrances/exits to parking levels.
    - 3) Rerouting of drive aisles and/or reduction of drive aisles to one lane with flagger operation.
  - c. Coordinate with and obtain approval from Parking Operator prior to implementing any temporary closures and/or re-routing of drive aisles.
4. Traffic Safety: Provide directional and warning signage, cones or other markers delineating drive aisle locations and widths, and/or flaggers as needed to assure safe movement of vehicles through the Work Areas. Contractor shall assume responsibility for traffic safety of motorists and pedestrians within Work Areas and in any location where the Contractor implements changes to the normal vehicular flow in the Garage. Owner and Parking Operator reserve the right to evaluate if Contractor's traffic control measures are adequate once these measures are in operation and to request additional or alternative traffic controls to maintain public safety in the Garage.
  5. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
  6. Provide no fewer than three (3) business days' notice to Owner of activities that will affect Owner's operations.
- B. Contractor Responsibilities for Community Relations:
1. Prior to commencement of construction, participate with Owner in development of a communication and community relations plan and problem-solving approach for resolving day-to-day issues, concerns and complaints raised by parking customers, nearby businesses and their customers, condominium residents, and the general public who may be affected by construction activities during the construction period ("Other Parties Affected by Construction"). Contractor shall:
    - a. Assume responsibility for communicating the importance of maintaining good community relations during the Project to employees, subcontractors, and other construction personnel.
    - b. Enlist employees, subcontractors and other construction personnel in implementing the community relations plan.
    - c. Identify a point person employed by the Contractor who will represent the Contractor in taking calls from and meeting with Other Parties Affected by Construction.
    - d. Provide contact information for the point person which can be given to the general public.

- e. Attend meetings with the Owner, Project Architect, Parking Operator and Other Parties Affected by Construction to address community relations issues as needed.
- C. Owner and Parking Operator as Liaison: Owner and Parking Operator will act as liaison between Contractor and monthly parkers regarding temporary closures.

## 1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
  - 1. Comply with limitations on use of public streets and sidewalks and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours:
  - 1. Work such as chipping and grinding which creates noticeable noise levels for Other Parties Affected by Construction shall be limited to nights and weekends. Contractor will coordinate with Owner and Parking Operator prior to commencement
  - 2. All other work on unrestricted days shall have unrestricted hours.
- C. Restricted Days: As of the date of these Specifications, there are no known events in downtown Boise that will create work restrictions during the construction period. Special events may arise during the construction period that will create work restrictions. Owner and Contractor will coordinate any work restrictions at that time.
- D. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others.
- E. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner's operations. Notify Project Architect and the appropriate parties not fewer than two (2) business days in advance of proposed disruptive operations.
- F. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.
- G. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

## 1.8 CONSTRUCTION SCHEDULE

- A. Contractor shall submit a tentative Construction Schedule including all activities, locations, and dates to Project Architect at or before the Preconstruction Meeting. Submit a detailed Construction Schedule for Project Architect's review and approval prior to commencement of Work.

- B. Contractor shall not begin any work until receipt of a written Notice to Proceed. Contractor shall diligently maintain progress and complete the work by the required Substantial and Final Completion dates.
- C. Construction Schedule shall provide for a minimum of disruption to adjacent residents and businesses.
- D. Contractor shall update the Construction Schedule as the Work progresses and provide a copy of schedule revisions to the Project Architect as they occur. At a minimum, Contractor shall provide an updated schedule no later than the first business day of each month. Schedule revisions which would affect Contractor's ability to complete the Work by the established Substantial Completion or Final Completion date require Project Architect and Owner approval through issuance of an approved Change Order.

#### 1.9 RESPONSIBILITIES FOR FURNISHINGS, FIXTURES AND EQUIPMENT

- A. General: Contractor is responsible for ordering, purchasing, taking delivery, storing, transporting, and installing furnishings, fixtures, products and equipment as indicated in the Drawings.
- B. Contractor's Responsibilities for Owner-Supplied Furnishings, Fixtures and Equipment: For furnishings, fixtures and equipment supplied by Owner, Contractor is responsible for material pickup from Owner's storage location and transport to and installation at the Project Site, except as otherwise provided.
  - 1. Contractor shall remove and dispose of all packaging materials and related debris. Packaging materials and related debris shall not be left at Owner's storage facility. Dispose of these items in a lawful manner meeting the requirements of authorities having jurisdiction.
  - 2. Retain all packing statements and deliver to Project Manager.
- C. Storage Location for Owner-Supplied Furnishings, Fixtures and Equipment: Owner-supplied furnishings, fixtures and equipment will be stored at Owner's warehouse at 421 N. 10<sup>th</sup> Street, Boise ID, or as otherwise provided. Contractor shall notify Project Architect and Owner at least two (2) business days prior to when furnishings, fixtures and equipment are needed from the warehouse so Owner coordinate opening the warehouse for construction personnel to retrieve the furnishings, fixtures and equipment.
- D. Contractor's Responsibility for Payment of Use Taxes: CCDC is a tax exempt entity and does not pay sales tax on the furnishings, fixtures and equipment it buys. Contractor is responsible for paying use tax to the State of Idaho for materials supplied by CCDC. See Section 00 21 13 Instruction to Bidders for furnishings, fixtures and equipment, and any unit prices.
- E. The cost of the Owner Supplied Furnishings Equipment is \$12,819.07.

## 1.10 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: Specifications in this Project Manual use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
  2. Specification requirements shall be performed by Contractor unless specifically stated otherwise.
- B. Drawing Coordination: Requirements for materials and products identified on the Drawings are described in detail on the Drawings. One or more of the following are used on the Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
  2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.
- C. Division 01: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

### **PART 2 - PRODUCTS (Not Used)**

### **PART 3 - EXECUTION (Not Used)**

END OF SECTION 01 10 00

## SECTION 01 25 00 - SUBSTITUTION PROCEDURES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for handling requests for substitutions made after award of the Contract.

#### 1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction required by the Contract Documents proposed by the Contractor after award of the Contract are considered to be requests for substitutions. The following are not considered to be requests for substitutions:
  - 1. Substitutions requested during the bidding period, and accepted by Addendum prior to award of the Contract, are included in the Contract Documents and are not subject to requirements specified in this Section for substitutions.
  - 2. Revisions to the Contract Documents requested by the Owner or Project Architect.
  - 3. Specified options of products and construction methods included in the Contract Documents.
  - 4. The Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

#### 1.4 SUBMITTALS

- A. Substitution Requests: The Owner and/or the Project Architect will consider requests for substitution if received within 45 days after commencement of the Work. Requests received more than 45 days after commencement of the Work may be considered or rejected at the discretion of the Owner and/or Project Architect.
  - 1. Submit 3 copies of each request for substitution for consideration. Submit requests according to procedures required for change-order proposals.
  - 2. Identify the product or the fabrication or installation method to be replaced in each request. Include related Specification Section and Drawing numbers.
  - 3. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:

- a. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by the Owner and separate contractors, that will be necessary to accommodate the proposed substitution.
  - b. A detailed comparison of significant qualities of the proposed substitution with those of the Work specified. Significant qualities may include elements, such as performance, weight, size, durability, visual effect, and LEED material requirements.
  - c. Product Data, including Drawings and descriptions of products and fabrication and installation procedures.
  - d. Samples, where applicable or requested.
  - e. A statement indicating the substitution's effect on the Contractor's Construction Schedule compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution on overall Contract Time.
  - f. Cost information, including a proposal of the net change, if any in the Contract Sum.
  - g. The Contractor's certification that the proposed substitution conforms to requirements in the Contract Documents in every respect and is appropriate for the applications indicated.
  - h. The Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of the failure of the substitution to perform adequately.
4. The Owner and/or Project Architect's Action: If necessary, the Owner and/or Project Architect will request additional information or documentation for evaluation within one week of receipt of a request for substitution. The Owner and/or Project Architect will notify the Contractor of acceptance or rejection of the substitution within 2 weeks of receipt of the request, or within one week of receipt of additional information or documentation, whichever is later. Acceptance will be in the form of a Change Order.

## **PART 2 - PRODUCTS**

### **2.1 SUBSTITUTIONS**

- A. Conditions: The Owner and/or Project Architect will receive and consider the Contractor's request for substitution when one or more of the following conditions are satisfied, as determined by the Owner and/or Project Architect. If the following conditions are not satisfied, the Owner and/or Project Architect will return the requests without action except to record noncompliance with these requirements.
1. Extensive revisions to the Contract Documents are not required.
  2. Proposed changes are in keeping with the general intent of the Contract Documents.
  3. The request is timely, fully documented, and properly submitted.
  4. The request is directly related to an "or-equal" clause or similar language in the Contract Documents.



5. The requested substitution offers the Owner a substantial advantage, in cost, time, energy conservation, or other considerations, after deducting additional responsibilities the Owner must assume. The Owner's additional responsibilities may include compensation to the Project Architect for redesign and evaluation services, increased cost of other construction by the Owner, and similar considerations.
  6. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
  7. The specified product or method of construction cannot be provided in a manner that is compatible with other materials and where the Contractor certifies that the substitution will overcome the incompatibility.
  8. The specified product or method of construction cannot be coordinated with other materials and where the Contractor certifies that the proposed substitution can be coordinated.
  9. The specified product or method of construction cannot provide a warranty required by the Contract Documents and where the Contractor certifies that the proposed substitution provides the required warranty.
- B. The Contractor's submittal and the Owner and/or Project Architect's acceptance of Shop Drawings, Product Data, or Samples for construction activities not complying with the Contract Documents do not constitute an acceptable or valid request for substitution, nor do they constitute approval.

### **PART 3 - EXECUTION (NOT USED)**

END OF SECTION 01 25 00

**SECTION 01 26 00 - CONTRACT MODIFICATION PROCEDURES****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
  - 1. Division 01 Section 01 25 00 "Substitution Procedures" for administrative procedures for handling requests for substitutions made after award of the contract.

**1.2 SUMMARY**

- A. This Section specifies administrative and procedural requirements for handling and processing Contract modifications.

**1.3 MINOR CHANGES IN THE WORK**

- A. Owner or Project Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.

**1.4 REQUESTS FOR INFORMATION (RFIs).**

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI to the Project Architect, with a copy to Owner. All RFIs shall be submitted by Contractor.
  - 1. RFI Form: Use the RFI Form provided in the Project Manual or an alternative form acceptable to the Project Architect; follow the format and submit complete information as indicated on the provided form.
  - 2. Project Architect will return without review any RFIs submitted to Project Architect by any other entity, whether controlled by Contractor or not.
  - 3. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Project Architect's Action: Project Architect will review each RFI, determine action required, and respond within 48 hours, not including weekends.
  - 1. Project Architect's response may include a request for additional information, in which case Project Architect's time for response will date from time of receipt of additional information.

2. Project Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit a Change Order Proposal according to the procedures set forth herein.
3. If Contractor believes the Project Architect's RFI response warrants a change in the Contract Time or the Contract Sum, Contractor must notify Project Architect in writing within 48 hours (weekends omitted) of receipt of the RFI response.

## 1.5 CHANGE ORDER PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Owner or Project Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
  1. Proposal requests issued by Owner or Project Architect are for information only. Do not consider them as an instruction either to stop work in progress or to execute the proposed change.
  2. Within five (5) days of receipt of a proposal request, submit an estimate of cost necessary to execute the change to the Owner or Project Architect for the Owner's review.
    - a. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
    - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
    - c. Include costs of labor and supervision directly attributable to the change.
    - d. Include an updated Contractor's construction schedule that indicates the effect of the change on the Contract Time, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- B. Contractor-Initiated Proposals: When latent or unforeseen conditions require modifications to the Contract, the Contractor may propose changes by submitting a request for a change to the Owner.
  1. Include a statement outlining the reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and Contract Time.
  2. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
  3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
  4. Include costs of labor and supervision directly attributable to the change.
  5. Include an updated Contractor's construction schedule that indicates the effect of the change on the Contract Time, including, but not limited to, changes in activity

duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

6. Comply with requirements in Division 01 Section "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.

#### 1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Work Change Directive: When the Owner and the Contractor disagree on the terms of a Proposal Request, the Owner and Project Architect may issue a Work Change Directive. A Work Change Directive instructs the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
  1. Work Change Directive contains a complete description of change in the Work. It also designates the method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.
  1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

#### 1.7 CHANGE ORDER PROCEDURES

- A. Upon the Owner's approval of a Proposal Request, the Owner or Project Architect will issue a Change Order for signatures.

### **PART 2 - PRODUCTS (Not Used)**

### **PART 3 - EXECUTION (Not Used)**

END OF SECTION 01 26 00

**SECTION 01 29 00 - PAYMENT PROCEDURES****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. This Section specifies administrative and procedural requirements governing the Contractor's Applications for Payment.

**1.3 DEFINITIONS**

- A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.
  - 1. Coordinate the Schedule of Values and Applications for Payment with Contractor's Construction Schedule, Submittal Schedule, and List of Subcontracts.

**1.4 SCHEDULE OF VALUES**

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule.
  - 1. Correlate line items in the Schedule of Values with other required administrative forms and schedules.
  - 2. Submit the Schedules of Values for Project Architect's review and approval no later than the date for the Preconstruction Meeting.
- B. Format and Content: Use a Schedule of Values similar to the sample (associated with Section 00 62 76 Application for Payment Form) provided in the Project Manual, or use an alternate form acceptable to the Project Architect; follow the format and submit complete information as indicated in the sample.
  - 1. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports.
  - 2. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
  - 3. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.

4. Each item in the Schedules of Values and Payment Applications shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
  - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the Schedule of Values or distributed as general overhead expense, at Contractor's option.
5. Schedule Updating: Update and resubmit the Schedule of Values before the next Application for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

#### 1.5 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by and paid for by Owner.
  1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: The period covered by each Application for Payment is one month, ending on the last day of the month. Contractor shall submit the Application for Payment by the fifth business day following the last day of the month. Applications received after the fifth business day following the last day of the month shall be reviewed the following month, without exception.
- C. Application for Payment Forms: Use Application for Payment form provided or an equivalent form acceptable to the Project Architect.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Project Architect will return incomplete applications without action.
  1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions were made.
  2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
- E. Information on Mechanic's Liens: Contractor acknowledges that Owner is a public entity and that any property owned by Owner is considered public property, and that liens on public property are not enforceable. Contractor agrees that it shall not file any liens against property owned or controlled by Owner which is a part of the Worksite (the "Property"). Subject to Owner's payment of the compensation in accordance with the terms of this Agreement, Contractor will promptly discharge all liens, if any, filed against the Property by Contractor's subcontractors, suppliers and materialmen, and agents and persons employed by any of such persons.

- F. Initial Application for Payment: Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
  2. List of principal suppliers and fabricators.
  3. Schedule of Values.
  4. Contractor's Construction Schedule.
  5. Copies of building permits.
  6. Copies of authorizations and licenses from governing authorities for performance of the Work.
  7. Certificates of insurance and insurance policies.
  8. Performance and payment bonds.
  9. Data needed to acquire the Owner's insurance.
  10. Report of preconstruction.
- G. Application for Payment at Substantial Completion: After the Project Architect issues the Certificate of Substantial Completion, submit an Application for Payment.
1. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
  2. Administrative actions and submittals that shall precede or coincide with this application include:
    - a. Occupancy permits and similar approvals.
    - b. Warranties (guarantees) and maintenance agreements.
    - c. Test/adjust/balance records.
    - d. Maintenance instructions.
    - e. Changeover information related to Owner's occupancy, use, operation, and maintenance.
    - f. Final cleaning.
    - g. Application for reduction of retainage and consent of surety.
    - h. List of incomplete Work, recognized as exceptions to Project Architect's Certificate of Substantial Completion.
- H. Final Payment Application: Administrative actions and submissions that must precede or coincide with submittal of the final Application for Payment include the following:
1. Completion of Project closeout requirements.
  2. Completion of items specified for completion after Substantial Completion.
  3. Transmittal of required Project construction records to the Owner.
  4. Insurance certificates for products and completed operations where required.
  5. Proof that taxes, fees, and similar obligations were paid.
  6. Removal of temporary facilities and services.
  7. Removal of surplus materials, rubbish, and similar elements.
  8. Updated final statement, accounting for final changes to the Contract Sum.
  9. Tax Release from the Idaho State Tax Commission.
  10. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
  11. Evidence that claims have been settled, if applicable.
  12. Final liquidated damages settlement statement, if applicable.

- I. Contractor shall execute an Acknowledgment of Final Payment Form provided to Contractor by Owner in exchange for the Final Payment.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

END OF SECTION 01 29 00



**SECTION 01 31 00 – PROJECT MANAGEMENT AND COORDINATION****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section Includes:
  - 1. General Coordination Procedures
  - 2. Requests for Information (RFI's)
  - 3. Project Meetings

**1.3 DEFINITIONS**

- A. RFI: Request from Owner, Project Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

**1.4 GENERAL COORDINATION PROCEDURES.**

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation, connection and operation of each part of the Work.
  - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
  - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
  - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to:
  - 1. Preparation of Contractor's Construction Schedule.
  - 2. Preparation of the Schedule of Values.
  - 3. Installation and removal of temporary facilities and controls.
  - 4. Delivery and processing of submittals.

5. Progress Meetings
6. Project closeout activities.

## 1.5 REQUESTS FOR INFORMATION (RFIs).

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI to the Project Architect in the format specified.
1. Use the RFI Form provided in the Project Manual or an alternative form acceptable to the Project Architect; follow the format and submit complete information as indicated on the provided form.
  2. Project Architect will return RFIs submitted to Project Architect by other entities controlled by Contractor with no response.
  3. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Project Architect's Action: Project Architect will review each RFI, determine action required, and respond. Allow seven working days for Project Architect's response for each RFI.
1. Project Architect's action may include a request for additional information, in which case Project Architect's time for response will date from time of receipt of additional information.
  2. Project Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Contract Modification Procedures.
    - a. If Contractor believes the Project Architect's RFI response warrants a change in the Contract Time or the Contract Sum, notify Project Architect in writing within 48 hours (weekends omitted) of receipt of the RFI response.

## 1.6 PROJECT MEETINGS

- A. General: Conduct progress meetings at regular intervals.
1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Project Architect of scheduled meeting dates and times.
  2. Agenda: Prepare the meeting agenda; distribute to all invited attendees.
  3. Minutes: Record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Project Architect, within three (3) business days of the meeting.
- B. Preconstruction Meeting: Owner shall schedule and conduct a Preconstruction Meeting to review responsibilities and personnel assignments at a time convenient to Contractor and Project Architect, but no later than seven (7) Days after execution of the Agreement and prior to start of construction.

1. Attendees: Authorized representatives of Owner, Project Architect, Parking Operator, Contractor, and Contractor's Project Manager; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to make decisions related to the Work.
  2. Agenda: Discuss items of significance that could affect progress, including:
    - a. Designation of key personnel and their duties.
    - b. Lines of communications.
    - c. Distribution of the Contract Documents.
    - d. Tentative Construction Schedule.
    - e. Construction phasing.
    - f. Access & Security Plan.
    - g. Communication and community relations strategy.
    - h. Procedures for RFIs.
    - i. Submittal procedures.
    - j. Procedures for processing field decisions and Change Orders.
    - k. Procedures for testing and inspecting.
    - l. Procedures for processing Applications for Payment.
    - m. Use of premises and existing building.
    - n. Owner's occupancy requirements.
    - o. Work restrictions (days and hours); events that may create restrictions.
    - p. Limits on use of elevators and stairwells.
    - q. Traffic controls and temporary closures (includes Procedures).
    - r. Parking availability.
    - s. Work and storage areas.
    - t. Equipment deliveries and priorities.
    - u. First aid.
    - v. Progress cleaning.
  3. Minutes: Owner or designee will record and distribute meeting minutes.
- C. Progress Meetings: Contractor shall conduct a weekly Progress Meeting with Project Architect and Owner's Representative each week during the construction period in order to coordinate construction activities and to identify and resolve issues arising during construction.
1. Location: Progress Meetings are typically held in the field but may be held at Owner's offices if an office location is needed.
  2. Attendees: Contractor, Project Architect, Owner's Representative and any subcontractors or subconsultants needed in attendance to better coordinate the work. Contractor shall be responsible for notifying subcontractors, and Project Architect shall be responsible for notifying subconsultants needed in attendance.
  3. Agenda: Items to be discussed not limited to the following:
    - a. Project Schedule.
    - b. Status of Work, including any specific field issues or questions.
    - c. Review present and future needs of Attendees, including:
      - 1) Interface requirements.

- 2) Status of submittals.
  - 3) Deliveries.
  - 4) Site utilization and access.
  - 5) Quality and work standards.
  - 6) Status of correction of deficient items.
  - 7) Field observations.
  - 8) Testing results.
  - 9) Status of RFIs.
  - 10) Pending changes.
4. Minutes: Project Architect shall be responsible for preparing and distributing meeting minutes to Owner, Contractor, and any subcontractors or subconsultants that have work assignments resulting from the meeting.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

END OF SECTION 01 31 00

## **SECTION 01 3300 - SUBMITTAL PROCEDURES**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes administrative and procedural requirements for submittals required for performance of the Work, including: Shop Drawings, Product Data, Samples, and other submittals.

#### **1.3 DEFINITIONS**

- A. Action Submittals: Written and graphic information and physical samples that require Project Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals." Submittals may be rejected for not complying with requirements.
- B. Informational Submittals: Written and graphic information and physical samples that do not require Project Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."
- C. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

#### **1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS**

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
  - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
  - 2. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
  - 3. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

- a. Project Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- B. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Project Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. Initial Review: Allow five (5) business days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required.
  2. Resubmittal Review: Allow five (5) business days for review of each resubmittal.
  3. No extension of Contract Time will be authorized because of failure to transmit submittals to the Project Architect sufficiently in advance of the Work to permit processing.
- D. Electronic Submittals: Owner and Project Architect require electronic submittals. Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
  2. Name file with submittal number or other unique identifier, including revision identifier.
    - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01).
    - b. Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
  3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Project Architect.
  4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information:
    - a. Project name.
    - b. Date.
    - c. Name and address of Contractor's Project Manager.
    - d. Name of firm or entity that prepared submittal.
    - e. Names of subcontractor, manufacturer, and supplier.
    - f. Category and type of submittal.
    - g. Submittal purpose and description.
    - h. Transmittal number.
    - i. Transmittal index and navigation links to each specification section or drawing number for which a submittal is being made.
    - j. Location(s) where product is to be installed, as appropriate.
    - k. Related physical samples submitted directly.
    - l. Indication of full or partial submittal.
    - m. Other necessary identification.
    - n. Remarks.

- E. Options: Identify options requiring selection by Project Architect.
- F. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
  - 1. Note date and content of previous submittal.
  - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
  - 3. Resubmit submittals until they are marked with approval notation from Project Architect's action stamp.
- G. Distribution: Furnish copies of final submittals to manufacturers' representatives, subcontractors, suppliers, fabricators, Installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- H. Use for Construction: Use only final action submittals that are marked with approval notation from Project Architect's action stamp.

## **PART 2 - PRODUCTS**

### **2.1 SUBMITTAL PROCEDURES**

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
  - 1. Submit electronic submittals via email as PDF electronic files.
    - a. Each submittal shall have a shop drawing or Contractor's document stamp on the submittal prior to submittal to Project Architect. Contractor's document stamp shall indicate that Contractor reviewed the submittal and determined, to the best of Contractor's ability, the submittal is in general conformance with the Drawings and Specifications. Contractor's document stamp shall be signed and dated.
    - b. Project Architect will return annotated electronic file. Annotate and retain one copy of file as an electronic Project record document file.
  - 2. Action Submittals: Submit via email as PDF electronic files. Project Architect will return annotated electronic file.
  - 3. Informational Submittals: Submit via email as PDF electronic files. Project Architect will not respond to informational submittals.
  - 4. Certificates and Certifications Submittals: Provide a digital signature on electronically submitted certificates and certifications where allowed. Provide a notarized statement on original paper copy certificates and certifications where indicated or where required by Project Architect or Owner.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
  2. Mark each copy of each submittal to show which products and options are applicable.
  3. Each submittal and/or product data shall have a shop drawing or Contractor's document stamp on the submittal prior to submittal to Project Architect. Contractor's document stamp shall indicate that Contractor reviewed the submittal and determined, to the best of Contractor's ability, the submittal is in general conformance with the Drawings and Specifications. Contractor's document stamp shall be signed and dated.
  4. Include the following information, as applicable:
    - a. Manufacturer's catalog cuts.
    - b. Manufacturer's product specifications.
    - c. Standard color charts.
    - d. Statement of compliance with specified referenced standards.
    - e. Testing by recognized testing agency.
    - f. Application of testing agency labels and seals.
    - g. Notation of coordination requirements.
    - h. Availability and delivery time information.
  5. Submit Product Data before or concurrent with Samples.
- C. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
  2. Identification: Attach label on unexposed side of Samples that includes the following:
    - a. Specification Section number and reference.
    - b. Generic description of Sample.
    - c. Sample source.
    - d. Product name or name of manufacturer.
    - e. Compliance with recognized standards.
    - f. Availability and delivery time.
  3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
  4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
    - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.



5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
  - a. Number of Samples: Submit one full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Project Architect will return submittal with options selected.
6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
  - a. Number of Samples: Submit one set of Samples. Project Architect will retain Sample set.
    - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
    - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three (3) sets of paired units that show approximate limits of variations.
- D. Application for Payment and Schedule of Values: Comply with requirements specified in Section 01 29 00 "Payment Procedures."
- E. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 01 77 00 "Closeout Procedures."
- F. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- G. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- H. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- I. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

- J. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

### **PART 3 - EXECUTION**

#### **3.1 CONTRACTOR'S REVIEW**

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work under the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Project Architect.
- B. Project Closeout and Maintenance Material Submittals: Follow the requirements in Section 01 77 00 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

#### **3.2 PROJECT ARCHITECT'S ACTION**

- A. General: Project Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from the Project Architect.
- B. Action Submittals: Project Architect will review each submittal, make marks to indicate corrections or revisions required, and return promptly. Project Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate the action taken.
- C. Informational Submittals: Project Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Project Architect will forward each submittal which complies with requirements to appropriate party.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Project Architect without action.

END OF SECTION 01 33 00

## **SECTION 01 40 00 - QUALITY REQUIREMENTS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
  - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in these Sections may also cover production of standard products.
  - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
  - 3. Requirements for Contractor to provide quality-assurance and -control services required by Project Architect, Owner, or authorities having jurisdiction are not limited by provisions of this section.

#### **1.3 DEFINITIONS**

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated in the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Project Architect.
- C. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities

having jurisdiction, to establish product performance and compliance with specified requirements.

- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
  - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

#### 1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Project Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Project Architect for a decision before proceeding.

#### 1.5 ACTION SUBMITTALS

- A. Shop Drawings: For integrated exterior mockups, provide plans, sections, and elevations, indicating materials and size of mockup construction.
  - 1. Indicate manufacturer and model number of individual components.
  - 2. Provide axonometric drawings for conditions difficult to illustrate in two dimensions.

## 1.6 INFORMATIONAL SUBMITTALS

- A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.
- B. Qualification Data: For Contractor's quality-control personnel.

## 1.7 CONTRACTOR'S QUALITY-CONTROL PLAN

- A. Quality-Control Plan, General: Submit quality-control plan prior to or on the date established for the Preconstruction Conference. Submit in format acceptable to Project Architect. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's Construction Schedule.
- B. Quality-Control Personnel Qualifications: Engage qualified full-time personnel trained and experienced in managing and executing quality-assurance and quality-control procedures similar in nature and extent to those required for Project.
  - 1. Project quality-control manager may also serve as Project superintendent.
  - 2. Project quality-control manager shall be on site full time during surface preparation and installation of traffic coating system.
- C. Submittal Procedure: Describe procedures for ensuring compliance with requirements through review and management of submittal process. Indicate qualifications of personnel responsible for submittal review.
- D. Continuous Inspection of Workmanship: Describe process for continuous inspection during construction to identify and correct deficiencies in workmanship in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring work into compliance with standards of workmanship established by Contract requirements and approved mockups.
- E. Monitoring and Documentation: Maintain testing and inspection reports including log of approved and rejected results. Include work the Project Architect has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

## 1.8 REPORTS AND DOCUMENTS

- A. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
  - 1. Name, address, and telephone number of technical representative making report.
  - 2. Statement on condition of substrates and their acceptability for installation of product.
  - 3. Statement that products at Project site comply with requirements.

4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
  5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
  6. Statement whether conditions, products, and installation will affect warranty.
  7. Other required items indicated in individual Specification Sections.
- B. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Specification Sections. Include the following:
1. Name, address, and telephone number of factory-authorized service representative making report.
  2. Statement that equipment complies with requirements.
  3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
  4. Statement whether conditions, products, and installation will affect warranty.
  5. Other required items indicated in individual Specification Sections.
- C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

## 1.9 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- D. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- E. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

## 1.10 QUALITY CONTROL

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
  2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
    - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
  3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
  4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
  5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
  6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- B. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing.
- C. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.
- D. Retesting/Reinspection: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
  2. Incidental labor and facilities necessary to facilitate tests and inspections.
  3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
  4. Facilities for storage and field curing of test samples.
  5. Delivery of samples to testing agencies.

6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
  7. Security and protection for samples and for testing and inspecting equipment at Project site.
- F. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and –control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

## **PART 2 - PRODUCTS (Not Used)**

## **PART 3 - EXECUTION (Not Used)**

### 3.1 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
  1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01 40 00



**SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS****PART 1 - GENERAL**

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

## 1.2 SUMMARY

- A. This Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

## 1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated in this Section.

**PART 2 - PRODUCTS**

## 2.1 MATERIALS

- A. Contractor shall be responsible to select appropriate materials and methods for the following temporary installations and for advising the Parking Operator of the materials and methods to be used prior to installation:
  1. Securing each Work Area such that the general public does not enter a Work Area during the duration of construction in that Work Area. Contractor is responsible for the safety of each Work Area and protection of the Work from damage.
  2. Delineating and securing temporary storage areas.
  3. Delineating drive aisles that have been relocated through Work Areas or otherwise in the Garage in a manner that assures safe movement of vehicles.
  4. Establishing temporary closures.

## 2.2 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

**PART 3 - EXECUTION****3.1 INSTALLATION, GENERAL**

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

**3.2 TEMPORARY UTILITY INSTALLATION**

- A. Water Service: Owner has water service adjacent to Work Area.
- B. Wastewater: Dispose of any wastewater from construction operations at an approved off-site location. Do not dispose of wastewater into Owner's sanitary sewer system, public storm drains, or tree wells. Disposal of wastewater into any storm sewer is strictly prohibited under Title 8, Chapter 15 of the Boise City Code. Contractor is responsible for proper off-site disposal in a legal manner of all wastewater generated by the Work and for any associated disposal fees.
- C. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Temporary toilets shall be secured when construction personnel are not present in the adjacent Work Area. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
- D. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
  - 1. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
- E. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
  - 1. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes.
  - 2. Provide ventilation of elevator vestibule and stairwells as required for installation of coating systems. Ventilation shall be adequate to confine vapors resulting from coating system application to Work Areas and prevent intrusion into occupied spaces and adjacent properties.

3. Use dust partitions as necessary to prevent windblown debris from entering workspace and noxious fumes from entering public areas or occupied areas.
- F. Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low or high temperatures. Select equipment that will not have a harmful effect on completed installations or elements being installed.
  - G. Electric Power Service: Electric power from Owner's existing system may be used if outlets are readily available to Work Area without payment of use charges. Provide connections and extensions of services as required for construction operations. Maintain equipment in a condition acceptable to Owner. Electric extensions crossing pedestrian and vehicular traffic areas shall be protected and taped securely to avoid creating hazards. Parking Operator reserves the right to disallow the use of electrical extensions if deemed a safety hazard.
  - H. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
    1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

### 3.3 SUPPORT FACILITIES INSTALLATION

- A. Parking: Owner will provide four (4) parking spaces for construction personnel at no charge on garage Level 5 when work is being performed. Contractor shall submit list of personnel working on the Project that will be authorized to use designated parking areas. Authorized construction personnel will be issued parking passes. Contractor shall coordinate with the Parking Operator on parking logistics.
- B. Traffic Control: See Section 01 10 00 for requirements related to traffic control in the Garage when Work is being performed.
- C. Waste Disposal Facilities:
  1. Provide waste collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress and final cleaning requirements in Section 01 73 00.
  2. Remove trash, waste and construction debris from Project site and legally dispose of them in a legal and lawful manner. Comply with the requirements of authorities having jurisdiction. Owner advises that dumpsters are not available for Contractor's use.
- D. Existing Elevator Use: Use of elevators by construction personnel will be permitted, provided elevators are cleaned and maintained in a condition acceptable to Owner. If floors or walls become dirty, clean them at least weekly. Use of Owner's existing elevators shall not be used to move equipment, construction materials, or supplies. Carrying tool belts and light hand tools by construction personnel when using elevators is acceptable. At Substantial Completion, restore elevators to condition existing before

initial use, including replacing worn cables, guide shoes, and similar items of limited life.

1. Do not load elevators beyond their rated weight capacity.
2. Provide protective coverings, barriers, devices, signs, or other procedures to protect elevator car and entrance doors and frame. If, despite such protection, elevators become damaged, engage authorized elevator technician to restore damaged work so no evidence remains of correction work. Return items that cannot be refinished in field to the shop, make required repairs and refinish entire unit, or provide new units as required.
3. Maintain normal elevator operation and public access to elevators and elevator landings in the Garage at all times.

E. Existing Stair Usage: Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use. If stairs become damaged from use by construction personnel, restore damaged areas so no evidence remains of correction work.

1. Do not damage handrails guardrails walls, ceiling, stair tread, landing surfaces, or other fixtures and surfaces in the stairwells.
2. Maintain normal stairwell operation and public access to stairs and stair landings in the Garage at all times.

F. Existing Smoke Alarms: Protect existing smoke alarms from damage. A smoke alarm in an elevator lobby or on an elevator landing shall remain in operation when the elevator lobby is open for public use. A smoke alarm in an elevator lobby may be disabled when work is being performed in the lobby and/or the lobby is closed to public use. Coordinate disabling of smoke alarms with the Parking Operator.

### 3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Secure Work Areas to protect public safety and to prevent unauthorized entrance, vandalism, theft, and damage to the Work whenever construction personnel are absent from the Work Area.
- D. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

- E. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.
- F. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities.
  - 1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.

### 3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Maintenance: Maintain facilities in good operating condition until removal.
- B. Termination and Removal: Remove each temporary facility when needed for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
  - 1. Materials and facilities that constitute temporary facilities are property of Contractor.
  - 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period.

END OF SECTION 01 50 0

**SECTION 01 73 00 - EXECUTION****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
  - 1. Construction layout
  - 2. Installation of the Work
  - 3. Progress cleaning
  - 4. Protection of installed construction.

**1.3 DEFINITIONS**

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Fitting and repair work required to restore construction to original conditions after installation of other work.

**1.4 INFORMATIONAL SUBMITTALS**

- A. Cutting and Patching Plan: Submit plan describing procedures at least 5 days prior to the time cutting and patching will be performed. Include the following information:
  - 1. Extent: Describe reason for and extent of each occurrence of cutting and patching.
  - 2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
  - 3. Products: List products to be used for patching and firms or entities that will perform patching work.
  - 4. Dates: Indicate when cutting and patching will be performed.
  - 5. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate length of time permanent services and systems will be disrupted.

- a. Include description of provisions for temporary services and systems during interruption of permanent services and systems.

## 1.5 QUALITY ASSURANCE

### A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Structural Elements: When cutting and patching structural elements, notify Project Architect of locations and details of cutting and await directions from Project Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection
2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
  - a. Primary operational systems and equipment.
  - b. Fire separation assemblies.
  - c. Air or smoke barriers.
  - d. Fire-suppression systems.
  - e. Mechanical systems piping and ducts.
  - f. Control systems.
  - g. Communication systems.
  - h. Fire-detection and -alarm systems.
  - i. Conveying systems.
  - j. Electrical wiring systems.
  - k. Operating systems of special construction.
3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:
  - a. Water, moisture, or vapor barriers.
  - b. Membranes and flashings.
  - c. Exterior curtain-wall construction.
  - d. Sprayed fire-resistive material.
  - e. Equipment supports.
  - f. Piping, ductwork, vessels, and equipment.
  - g. Noise- and vibration-control elements and systems.
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. General: Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
  - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Project Architect for the visual and functional performance of in-place materials.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site work, investigate and verify the existence and location of utilities, mechanical and electrical systems, and other construction affecting the Work.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
  - 1. Examine floors for suitable conditions where products and systems are to be installed.
  - 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
  - 1. Description of the Work.
  - 2. List of detrimental conditions, including substrates.
  - 3. List of unacceptable installation tolerances.
  - 4. Recommended corrections.
- D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.



### 3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information (RFI) to Project Architect.

### 3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Project Architect promptly.

### 3.4 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
  - 1. Make vertical work plumb and make horizontal work level.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Tools and Equipment: Do not use tools or equipment that produces harmful noise levels.
- G. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

- H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

### 3.5 PROGRESS CLEANING

- A. General: Clean Project site and Work Areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
  - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
  - 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
  - 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
    - a. Use containers intended for holding waste materials of type to be stored.
  - 4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
  - 1. Remove liquid spills promptly.
  - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire Work Area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sanitary or storm sewers, tree wells, or into waterways.
- G. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

- H. Limiting Exposures: Supervise construction operations to assure that no part of the construction completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

### 3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION 01 73 00

**SECTION 01 77 00 - CLOSEOUT PROCEDURES****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Substantial Completion procedures.
  - 2. List of incomplete items (Punch List).
  - 3. Final Completion procedures.
  - 4. Warranties
  - 5. Maintenance manuals.
  - 6. Project Record Documents.
  - 7. Materials.
  - 8. Final cleaning.
  - 9. Repair of the Work.

**1.3 SUBSTANTIAL COMPLETION PROCEDURES**

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion Inspection: Deliver the following submittals to the Project Architect a minimum of five (5) business days prior to requesting Substantial Completion Inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
  - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
  - 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, and similar final record information.
  - 3. Submit closeout submittals specified in individual Specification Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.

4. Submit test/adjust/balance records.
  5. Submit changeover information related to Owner's use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of five (5) business days prior to requesting inspection for determining date of the Substantial Completion. List items below that are incomplete at time of request.
1. Terminate and remove temporary facilities from Project Site, along with mockups, construction tools, and similar elements.
  2. Complete final cleaning requirements.
  3. Repair and restore existing buildings and improvements if damaged and/or defaced by construction activity whether inside or outside Project Site to match existing condition prior to commencement of construction.
  4. Touch up and otherwise repair and restore marred exposed finished to eliminate visual defects including touchup painting.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of three (3) business days prior to date the Work will be completed and ready for inspection. On receipt of request, Project Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Project Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Project Architect, that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections is completed or corrected.
  2. Results of completed inspection will form the basis for requirements for Final Completion.

#### 1.4 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
  2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
  3. Include the following information at the top of each page:
    - a. Project Name
    - b. Date
    - c. Name of Project Architect
    - d. Name of Contractor
    - e. Page number

## 1.5 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment according to Contract requirements.
  2. Certified List of Incomplete Items: submit certified copy of Project Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by the Project Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
  3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of two (2) business days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Project Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Project Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete or defective is completed or corrected.
- C. Acknowledgement of Final Payment: Contractor shall execute an Acknowledgment of Final Payment Form provided by Owner in exchange for Final Payment.

## 1.6 WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Project Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Partial Occupancy: Submit properly executed warranties within fifteen (15) Days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
- C. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
1. Bind warranties and bonds in heavy-duty, three-ring, loose-leaf binders, thickness as necessary to accommodate contents and sized to receive 8-1/2-by-11-inch paper.
  2. Provide heavy paper dividers with tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
  3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.

4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

## **PART 2 - PRODUCTS**

### **2.1 MAINTENANCE MANUALS**

- A. Submit maintenance manuals available from manufacturers and suppliers for concrete, traffic coatings, water repellent and joint sealants to Project Architect in PDF format and paper copies at the time the Substantial Completion Inspection is requested.
  1. PDF documents shall be submitted as a digital folder by flash drive or disk and shall include the Project name in the folder name. Each manufacturer's or supplier's maintenance documentation shall be in a separate digital file within the digital folder. The digital folder shall also include a PDF document with the following information:
    - a. Name of Project
    - b. Project Location
    - c. Name and contact information for Contractor
    - d. Contact information for each manufacturer and supplier providing maintenance information.
  2. Bind paper copies in heavy-duty, three-ring, loose-leaf binders, thickness as necessary to accommodate contents and sized to receive 8-1/2-by-11-inch paper. Identify the binder on the front and spine with the typed or printed title "MAINTENANCE MANUALS," Project name, and name of Contractor

### **2.2 PROJECT RECORD DOCUMENTS**

- A. As-Built Drawings and Record Drawings:
  1. As Built Drawings: Submit one set of original, clean Drawings issued by Owner as part of the Contract Documents ("Contract Drawings") marked-up to show any changes made in the field during the course of construction such as design changes approved by Owner, actual installations, component relocations required for coordination, rerouting of distribution system, etc. which differ from the original Drawings ("As-Built Drawings"). Deliver As-Built Drawings to the Project Architect at the time the Substantial Completion Inspection is requested. Project Architect will indicate whether general scope of changes, additional information recorded and quality of drafting are acceptable. If the submittal is not acceptable to Project Architect it will be returned to Contractor for corrections.
  2. Record Drawings: Project Architect shall be responsible for creating digital Record Drawings incorporating the mark-ups on the As-Built Drawings

submitted by the Contractor. Project Architect will issue digital Record Drawings to the Contractor and Owner with upon Final Completion of the Project.

B. Record Specifications:

1. Maintain copy of the Contract Documents for purposes of annotating where the actual product installation varies from that indicated in the Contract Documents. Submit annotated portions of the Contract Documents to the Project Architect prior to requesting a Substantial Completion Inspection. The Project Architect may request corrections in the Contractor's submittal to make the submittal more legible and complete.
2. Project Architect shall be responsible for maintaining its own records on variations in product installations, for assembling Record Specifications for the Project in a digital format and for distributing them to the Owner and Contractor at the conclusion of the Project.

### 2.3 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

## PART 3 - EXECUTION

### 3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
    - a. Clean Project site in areas disturbed by construction activities of rubbish, waste material, litter, and other foreign substances.
    - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.



- c. Remove tools, construction equipment, machinery, and surplus material from Project site.
- d. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
- e. Clean elevators and stair treads, and elevator vestibule and stair towers to remove construction residue and debris, and foreign substances.
- f. Remove debris and surface dust from limited access spaces affected by construction.
- g. Sweep concrete floors broom clean in unoccupied spaces.
- h. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
- i. Remove labels that are not permanent.
- j. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- k. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
- l. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
- m. Leave Project clean and ready for occupancy.

### 3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces and touching up with matching materials. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
  1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
  2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
  3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
  4. Repair and restore existing building surfaces if damaged and/or defaced by construction activity whether inside or outside Project Site to match existing condition prior to commencement of construction.

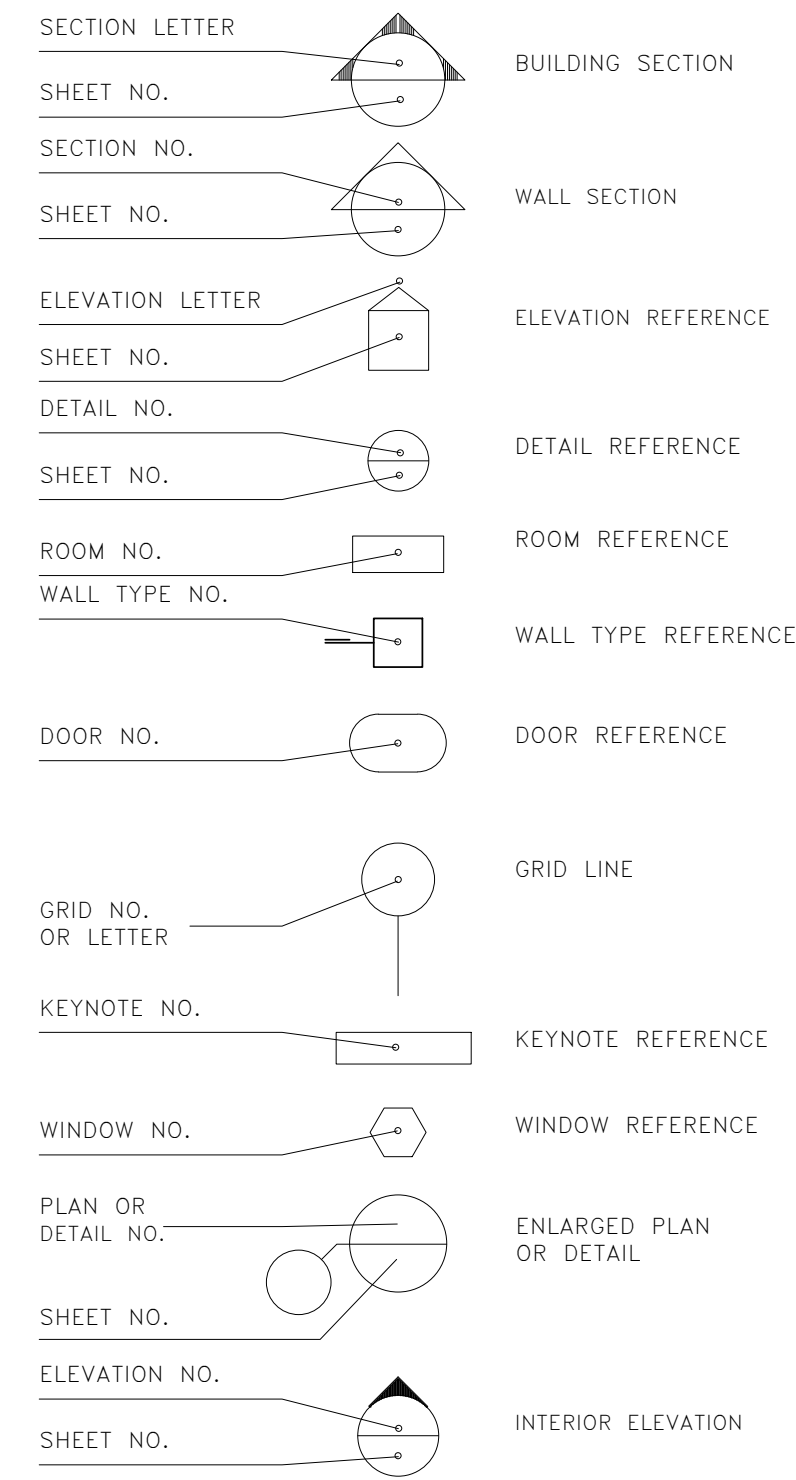
END OF SECTION 01 77 00

# CCDC BikeBOI Parking Station

## Abbreviations

#	NUMBER OR POUND	LAB	LABORATORY
	DIAMETER	LAM	LAMINATE
∠	ANGLE	LAV	LAVATORY
AT	AT	LE	LATEX ENAMEL-LOW LUSTRE
&	AND	LF	LATEX FLAX
⊕	CENTERLINE	LSF	LATEX SEMI GLOSS
AB	ANCHOR BOLT	MAT	MATERIAL
ACT	ACOUSTIC TILE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
ALUM	ALUMINUM	MET	METAL
ANOD	ANODIZED	MFR	MANUFACTURER
APPROX	APPROXIMATE	MIN	MINIMUM
ASSOC	ASSOCIATED	MISC	MISCELLANEOUS
BD	BOARD	MO	MASONRY OPENING
BFC	BROOM FINISH CONCRETE	MTD	MOUNTED
BLDG	BUILDING	MTG	MOUNTING
BLKG	BLOCKING	NA	NOT APPLICABLE
BM	BEAM	NB	NO BASE (EXPOSED WALL OR FOUNDATION)
BOT	BOTTOM	NC	NEW CONCRETE
BRG	BEARING	NI	NOT IN CONTRACT
BSMT	BASEMENT	NM	NEW MASONRY
BTWN	BETWEEN	NO	NO
CAB	CABINET	NOM	NOMINAL
CARP	CARPET	NTS	NOT TO SCALE
CJ	CONTROL JOINT	O/C	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OFF	OFFICE
CMU	CONCRETE MASONRY UNITS	OPNG	OPENING
CO	CLEAN OUT	OVT	OVERFLOW
COL	COLUMN	PLAS	PLASTIC
CONC	CONCRETE	PLYWD	PLYWOOD
CONST	CONSTRUCT	EPXY	EPOXY PAINT
CONT	CONTINUOUS	FR	PAIR
CORR	CORRIDOR	R	THERMAL RESISTANCE
CPT	CARPET	RWB	RUBBER WALL BASE
CSK	COUNTERSINK	RD	ROOF DRAIN
CT	CERAMIC TILE	RDL	RAIN DRAIN LEADER
CWB	CAPILLARY WATER BARRIER	REF	REFERENCE
DBL	DOUBLE	REFRIG	REFRIGERATOR
DEPT	DEPARTMENT	REIN	REINFORCING
DT	DETAIL	REQ	REQUIRED
DF	DRINKING FOUNTAIN	RM	ROOM
DIA	DIAMETER	RO	ROUGH OPENING
DIM	DIMENSION	RW	REDWOOD
DISP	DISPENSER	RWC	RAIN WATER CONDUCTOR
DN	DOWN	SCHED	SCHEDULE
DS	DOWNSPOUT	SCW	SOLID CORE WOOD SEALER (FLOOR)
EA	EACH	SGE	SEMI GLOSS ENAMEL
EJ	EXPANSION JOINT	SCWB	SUSPENDED GYPSUM WALL BOARD
ELEC	ELECTRICAL	SHT	SHEET
ELEV	ELEVATION	SHTG	SHEATHING
EC	EXISTING CONCRETE	SAT	SUSPENDED ACOUSTIC TILE
EM	ENTRANCE MAT	SIM	SIMILAR
EP	EXPANSION JOINT	SPECS	SPECIFICATIONS
EPLS	EXISTING PLASTER	SO	SQUARE
EQ	EQUAL	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STC	SMOOTH TROWELED CONCRETE STANDARD
ESTR	EXPOSED STRUCTURE (NEW OR EXISTING)	STD	STANDARD
EFIS	EXTERIOR FINISH & INSULATION SYSTEM	STL	STEEL
EXIST	EXISTING	STOR	STORAGE
EXT	EXTERIOR	STRUCT	STRUCTURAL
FD	FLOOR DRAIN	SUSP	SUSPENDED
FEC	FIRE EXTINGUISHER CAB.	SV	SHEET VINYL
FF	FACTORY FINISH	T&G	TONGUE AND GROOVE
FIN	FINISH	TEMP	TEMPORARY
FLR	FLOOR	TS	TUBE STEEL
FND	FOUNDATION	TWC	TEXTILE WALL COVERING
FOF	FACE OF FINISH	TYP	TYPICAL
FOS	FACE OF STUDS	UNO	UNLESS NOTED OTHERWISE
FT	FEET	VAR	VARIES
FTG	FOOTING	VCT	VINYL COMPOSITION TILE
GA	GAUGE	VERT	VERTICAL
GALV	GALVANIZED	VEST	VESTIBULE
GB	GYPSUM BOARD	VIF	VERIFY IN FIELD
GYP.BD.	GYPSUM BOARD	VWC	VINYL WALL COVERING
HCW	HOLLOW CORE WOOD	W	WASHER
HM	HOLLOW METAL	W/	WITH
HORIZ	HORIZONTAL	WC	WATER CLOSET
HT	HEIGHT	WCT	WASHABLE CEILING TILE
HW	HARDWOOD	WD	WOOD
ICMU	INTEGRAL COLORED CONCRETE MASONRY UNITS	WH	WATER HEATER
ID	INSIDE DIAMETER	W/O	WITH OUT
INSUL	INSULATION	WP	WATERPROOF
INT	INTERIOR	WRGB	WATER RESISTANT GYPSUM BOARD
INV	INVERT	WT	WEIGHT
JAN	JANITOR	WWF	WELDED WIRE FABRIC
JST	JOIST		
JT	JOINT		

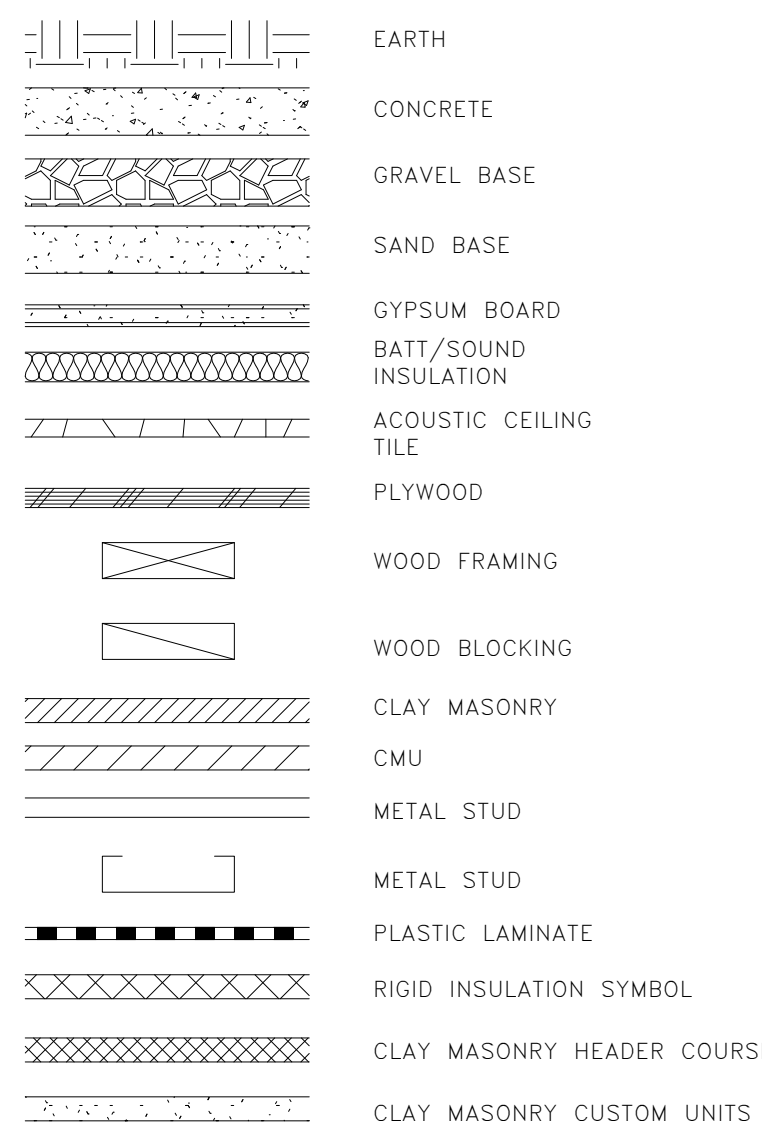
## Symbols



## Project Data

ADDRESS:	848 W. MAIN STREET BOISE, ID 83702
LEGAL DESCRIPTION:	DOWNTOWN PARKING CONDO ADA COUNTY, IDAHO
LOT SIZE:	2.2281 ACRES
PARCEL NUMBER:	R1919690900
CODE YEAR:	2015 IBC
LAND USE ZONE:	C-5DD
TENANT OCCUPANCY:	S-2
ACTUAL BUILDING AREA:	18,500 SQ. FT.
IMPROVED TENANT AREA:	560 SQ. FT.
TYPE OF CONSTRUCTION:	I-B
NUMBER OF STORIES:	FOUR FOR BUILDING / ONE FOR BIKE SHELTER
AUTOMATIC SPRINKLERS:	NO
FIRE ALARM / NOTIFICATION SYSTEM:	YES
TOTAL DESIGNED OCCUPANT LOAD:	3 PEOPLE (42 BIKES)
EGRESS	
OCCUPANCY (PER IBC CH 3):	
BIKE STORAGE	1:200 (PARKING GARAGES)
LOAD CALC. (IBC T. 1004.1.1):	(560/200) = 3
TOTAL OCCUPANT LOAD:	3
EXITS REQUIRED (PER IBC T. 1015.1):	1 (3 < 50)
EXITS PROVIDED:	1
TRAVEL DISTANCE TO FURTHEST POINT:	75 FEET MAX.

## Graphics Legend



## Currently Enforced Codes:

All construction shall conform to the following applicable codes:

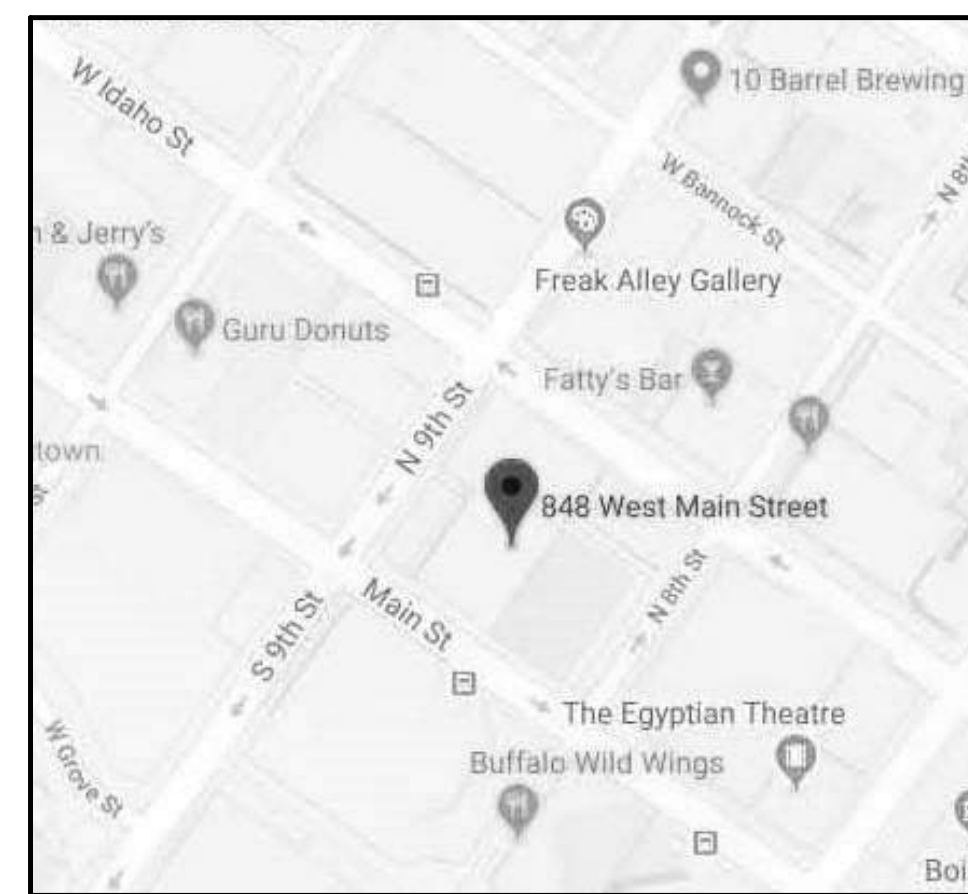
- 2015 International Building Code (IBC)
- 2017 International Residential Code (IRC)
- 2017 International Energy Conservation Code (IECC)
- 2015 International Existing Building Code (IEBC)
- 2012 International Fuel Gas Code (IFGC)
- 2015 International Fire Code (IFC)
- 2015 Idaho State Plumbing Code (ISPC) with updates and amendments
- 2012 International Mechanical Code (IMC)
- 2014 National Electrical Code (NEC), 2017 NEC, INCLUDING AMMENDMENTS AS LISTED IN IDAPA 07.01.06.
- 2012 National Fire Protection Act (NFPA)
- 2012 International Code Council/American National Standard A117.1 (ICC/ANSI)
- 1994 Americans with Disabilities Act (ADA), Title III Regulations (28 CFR Part 36, Revised July 1, 1994), Appendix A

Refer to building permit documents and all construction documents for additional code requirements.

## Drawing Schedule

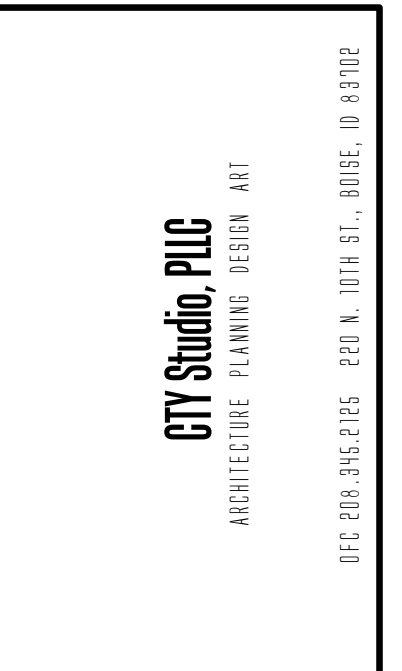
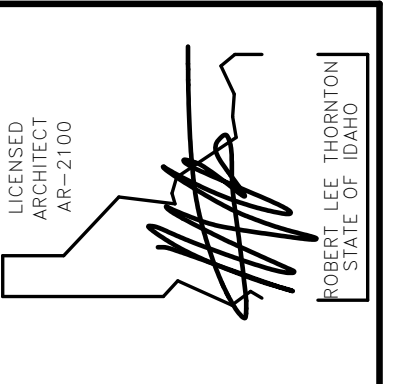
- A0.1 Cover Sheet / Code Info
- A2.1 Partial Garage Plan
- A2.2 Bike Shelter Plans
- A2.3 Bike Shelter Layout Plans
- A3.1 Elevations
- A4.1 Sections
- S1.1 General Structural Notes
- S1.2 Special Inspections
- S2.1 Foundation Plan
- S3.1 Schedules & Details
- E0.0 Electrical Symbols & Sheet Index
- E1.0 Electrical Site Plan
- E2.0E Bike Shelter Electrical Plans
- E2.0L Bike Shelter Lighting Plan
- E3.0 Electrical Schedules
- E4.0 Electrical Specifications
- E4.1 Electrical Specifications
- E4.2 Electrical Specifications

## Vicinity Map



## General Notes:

- The scope of work shall be determined by all construction documents, permit documents and contracts negotiated with the owner. If no formal construction contract has been entered into, the owner, contractor and architect shall follow AIA A101 and A201 for contractual procedures.
- All new construction shall conform to all applicable codes listed below as well as all rules and regulations by the governmental agency having jurisdiction. All new construction shall be per manufacturer's requirements, specifications and accepted general construction practices.
- All construction shall be constructed from approved permit drawings issued by the governmental agency having jurisdiction. "Preliminary" and "bid sets" shall not be used for construction. The contractor shall obtain permits and inspection approvals for substantial completion.
- The contractor is responsible for the coordination of all information on the construction documents, permit documents, change orders, and supplemental information of all subcontractors and trades. The contractor is responsible for the coordination of all work.
- Contractor and subcontractors are to verify all dimensions, elevations and existing conditions affecting the work prior to proceeding with the work. All contractors submitting bid proposals for this project are required to visit the project site prior to submitting a bid. Bid proposals shall serve as site verification. Where discrepancies between the drawings and actual conditions occur, the architect shall be notified.
- When concealed omissions, plan discrepancies, or unknown conditions are discovered and will affect the final design or change the scope of work, contact the architect for resolution prior to work.
- The contractor is responsible for construction means, methods, techniques, sequences, procedures, shoring, bracing safety and insurance in connection with all work. All necessary temporary construction required to complete the project shall be included in the contractor's price.
- All interruptions of mechanical and electrical systems shall be coordinated with the owner a minimum of 24 hours prior to interruption.
- All materials stored on the site, existing construction and finished construction shall be protected from weather, vandalism and other construction activities to prevent damage and deterioration until substantial completion. Failure to protect may be cause for rejection of work.
- The contractor shall perform all necessary cutting, patching and fitting as required to complete work. All work shall be performed with appropriate materials and tools to insure highest quality of craftsmanship.
- All wood shims, nailers and blocking in enclosed spaces, below grade or otherwise subject to moisture, shall be pressure treated with preservative ade
- All work required shall be furnished, installed complete and in operating condition. The contractor is responsible for all installation and/or connection of equipment for a complete and operational facility unless noted otherwise.
- The drawings indicate location, dimensions, and typical details of construction. Work not specifically detailed shall be of construction similar to that which is detailed.
- Dimensions take precedence over scaled drawings. Large scale drawings take precedence over small scale drawings. Concrete and masonry dimensions are to face of concrete or masonry. Wood or steel stud construction is dimensioned to face of stud unless noted otherwise. Do not scale drawings unless directed by the architect.
- Refer to all drawing sheets for additional general notes, including all requirements for design/build portions of the scope of work.
- The architect and their consultants shall not be responsible for the discovery, removal, or disposal of any hazardous materials in any form, including but not limited to asbestos products, mold, polychlorinated biphenyl (PCB) or other toxic materials. The owner shall be responsible for identification, removal, and disposal of all hazardous materials. The contractor shall notify the owner and architect if any such materials are discovered.
- The general contractor shall retain one set of the plans to note and document all changes during construction. This set shall be a part of the general contractor's close-out package.
- The premise to be kept clean and empty of all loose items and debris.



**CCDC BikeBOI Parking Station**  
**9th Main Parking Garage**  
**848 W. Main Street, Boise, Idaho**

all drawings and copies thereof are instruments of service and as such remain the property of the architect; they are to be used only with respect to this project. with the exception of one complete set for each party of the contract, all copies are to be returned or suitably accounted for to the architect upon completion of the work. **copyright 2018 all rights reserved**

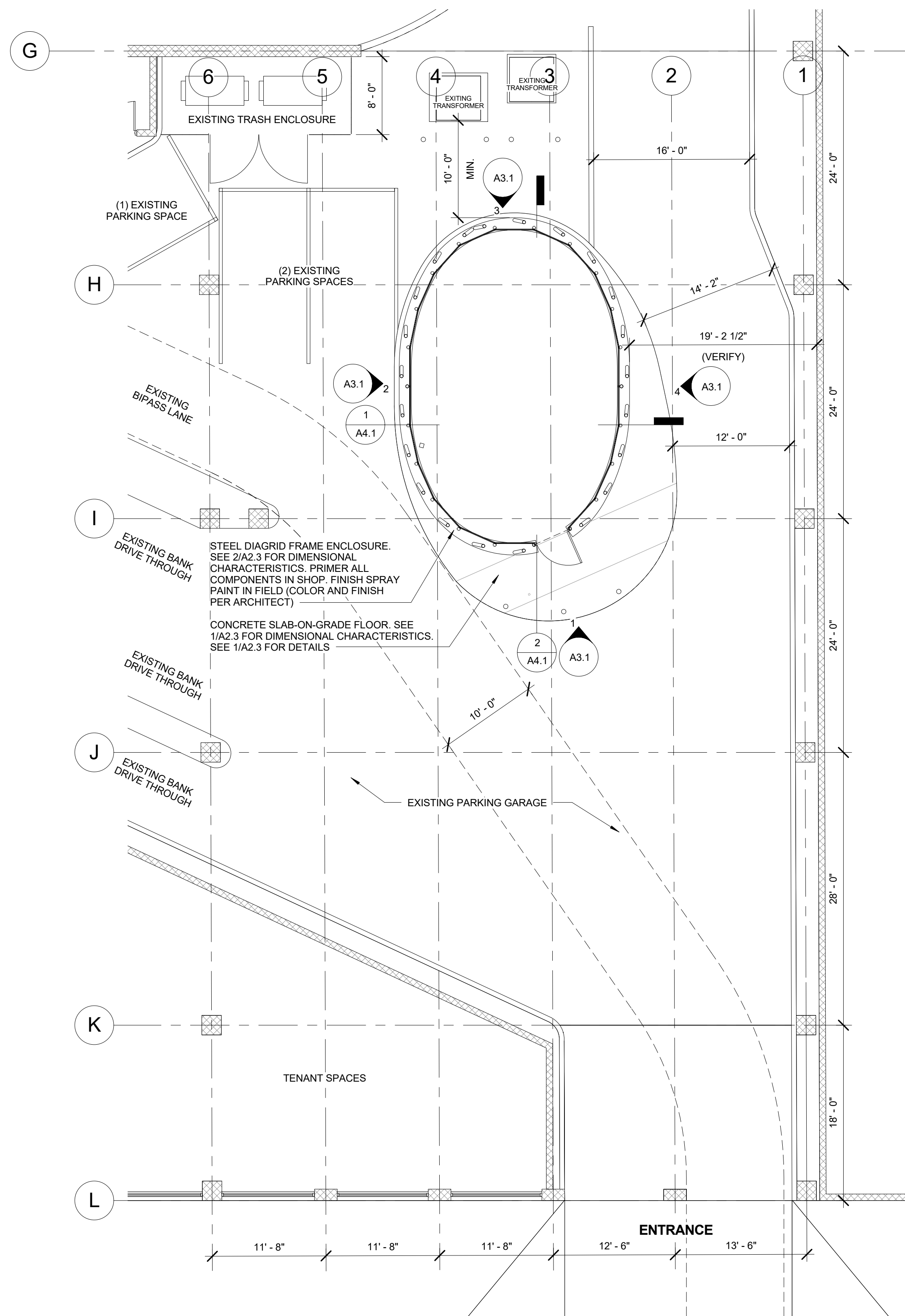
Revision No.	Description	Date

Project number	2017.13
Date	10/12/18
Drawn by	RLT
Checked by	

Permit Submittal

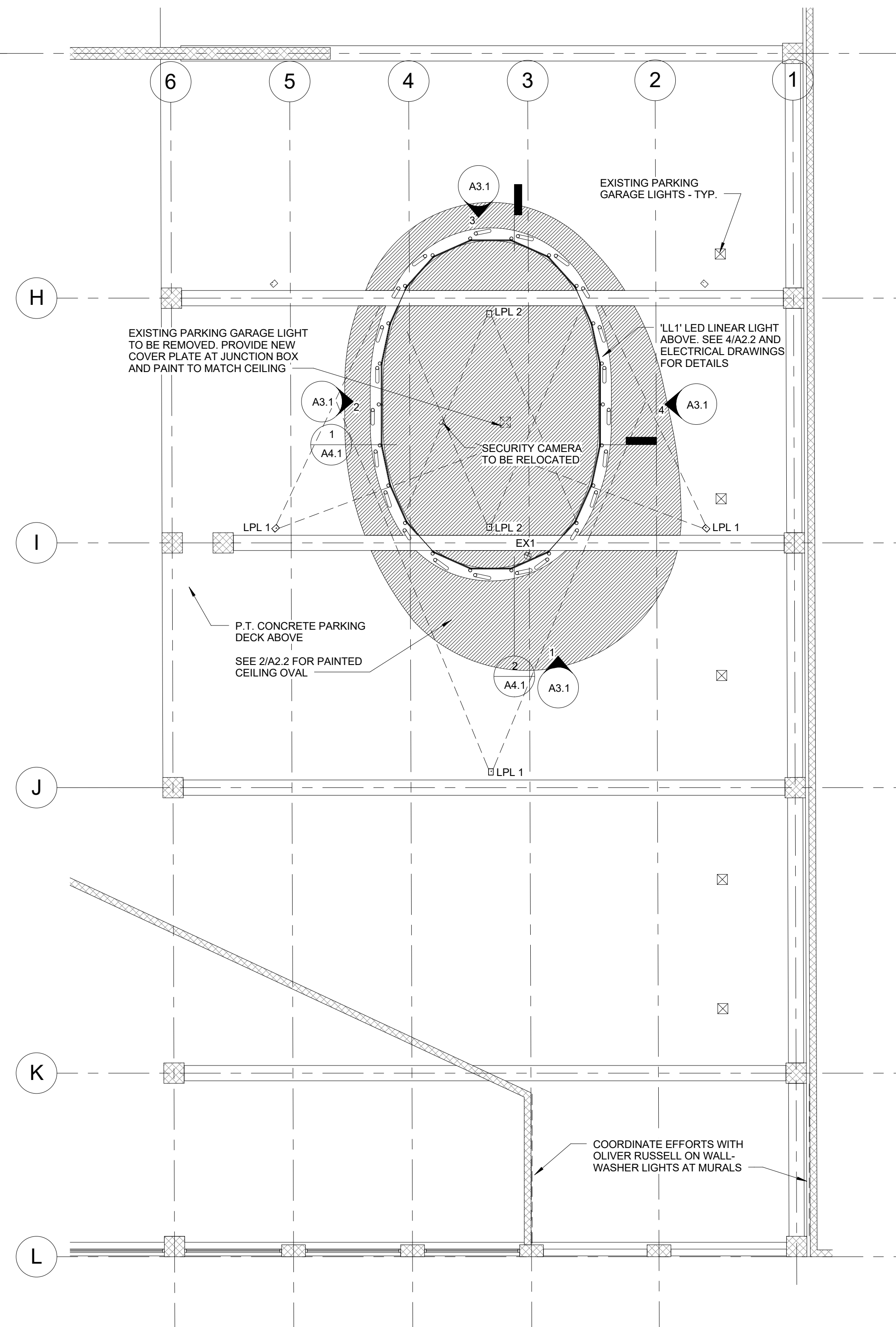
Cover Sheet / Code Info

# A0.1



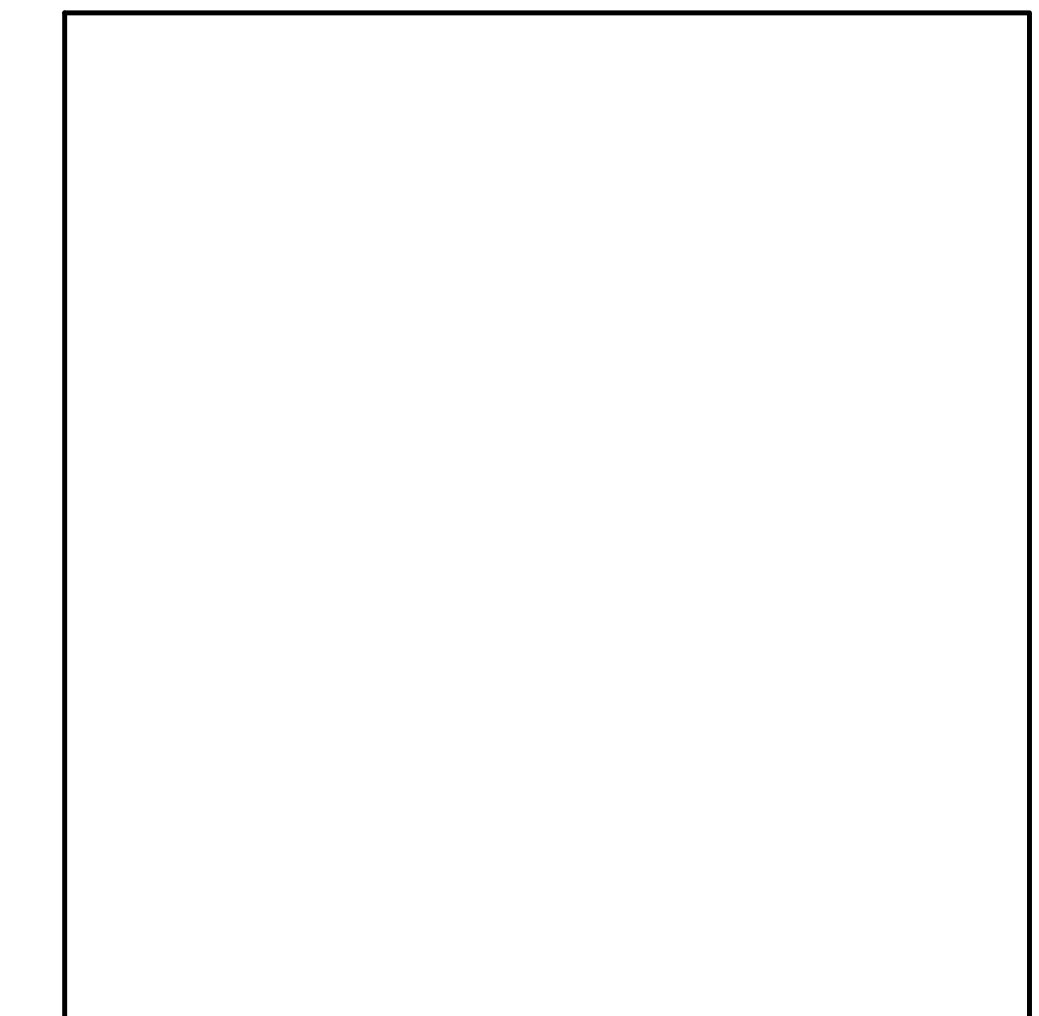
Main Street

**2 Partial Garage Plan**  
1/8" = 1'-0"  
REFERENCE NORTH



COORDINATE EFFORTS WITH OLIVER RUSSELL ON WALL-WASHER LIGHTS AT MURALS

**1 Partial Garage Ceiling Plan**  
1/8" = 1'-0"  
REFERENCE NORTH

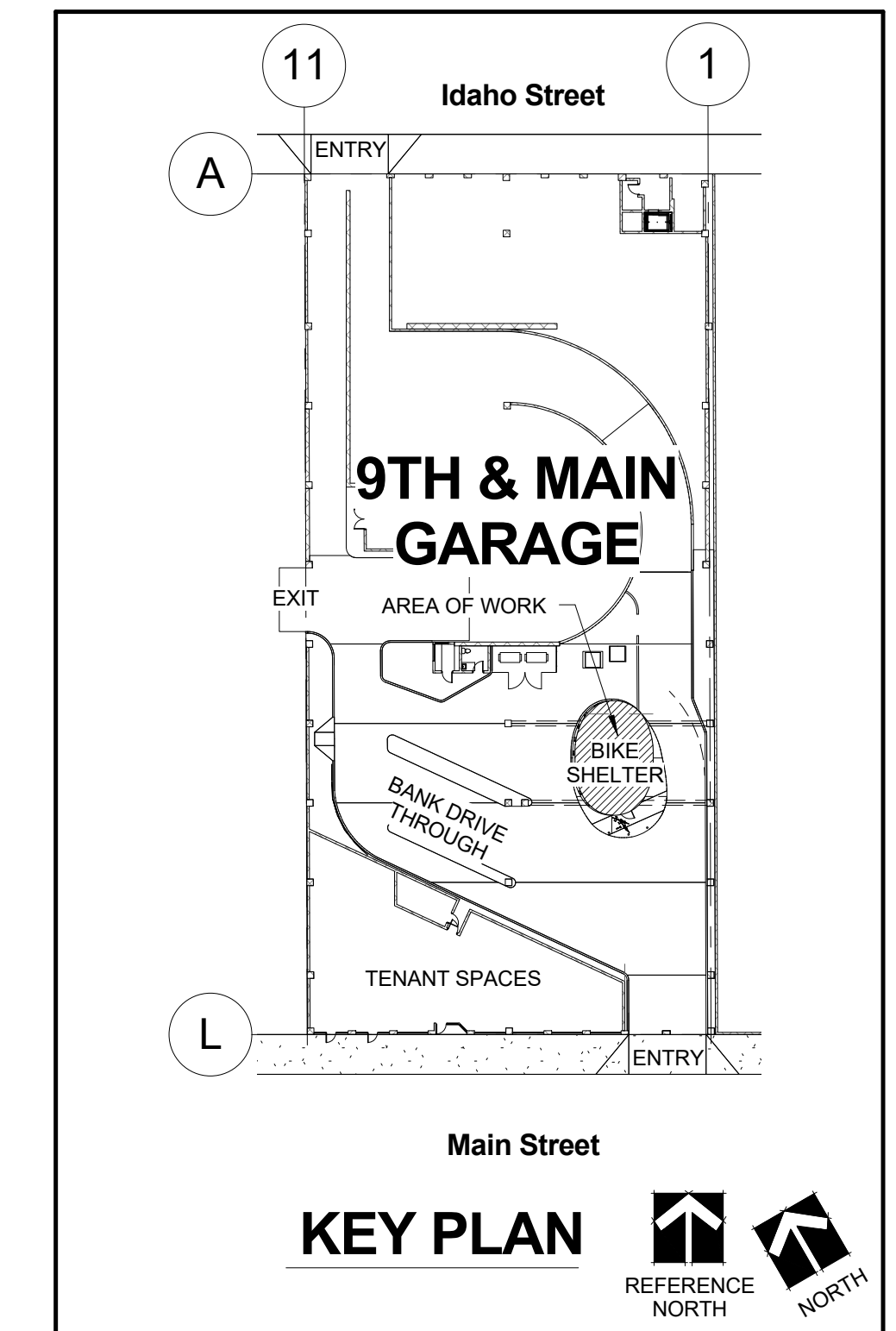


LICENSED ARCHITECT  
ARCHITECT  
NOV 2010  
BOISE, IDAHO

**QTY Studio, PLLC**  
ARCHITECTURE PLANNING DESIGN ART  
P.O. BOX 316, 215 S. 270 W. 1014 ST., BOISE, ID 83702

**LIGHTING LEGEND**

<b>LL1</b>	LED RGB LINEAR LIGHT: "LUMENCOVE NANO 2.0" PER ELECTRICAL DRAWINGS
<b>LPL1</b>	LED PROJECTOR LIGHT: SWITCH AT PANEL "LUMENBEAM LBX" PER ELECTRICAL DRAWINGS
<b>LPL2</b>	LED PROJECTOR LIGHT: SWITCH WITH MOTION SENSOR AT ACCESS DOOR "LUMENBEAM LBX" PER ELECTRICAL DRAWINGS
<b>EX1</b>	1-SIDED SELF-ILLUMINATED EXIT SIGN PER ELECTRICAL DRAWINGS



**CCDC BikeBOI Parking Station**  
9th Main Parking Garage  
848 W. Main Street, Boise, Idaho

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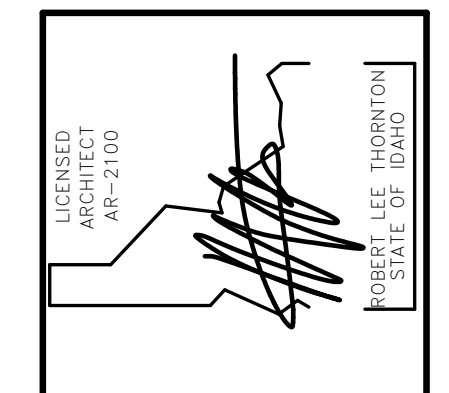
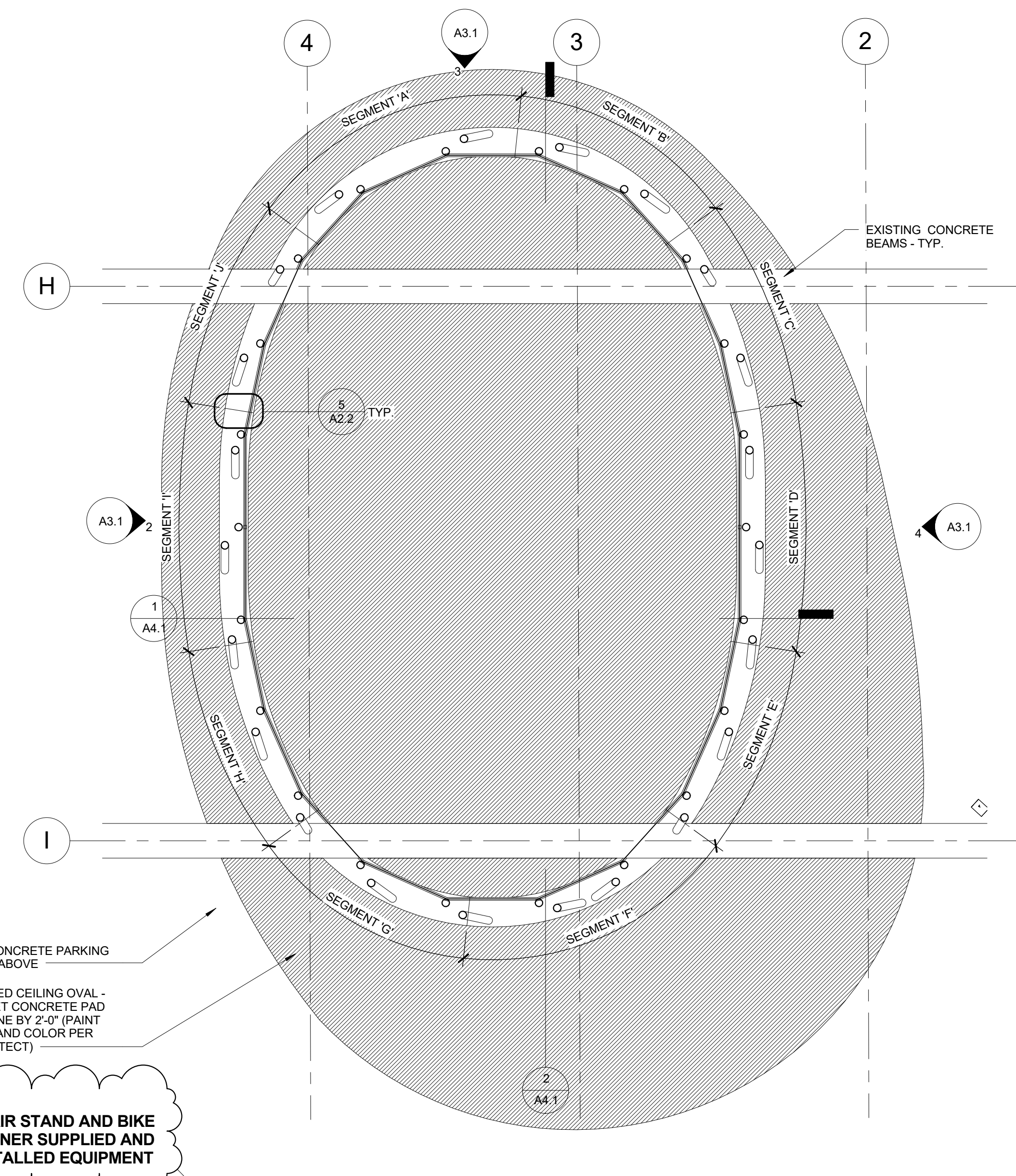
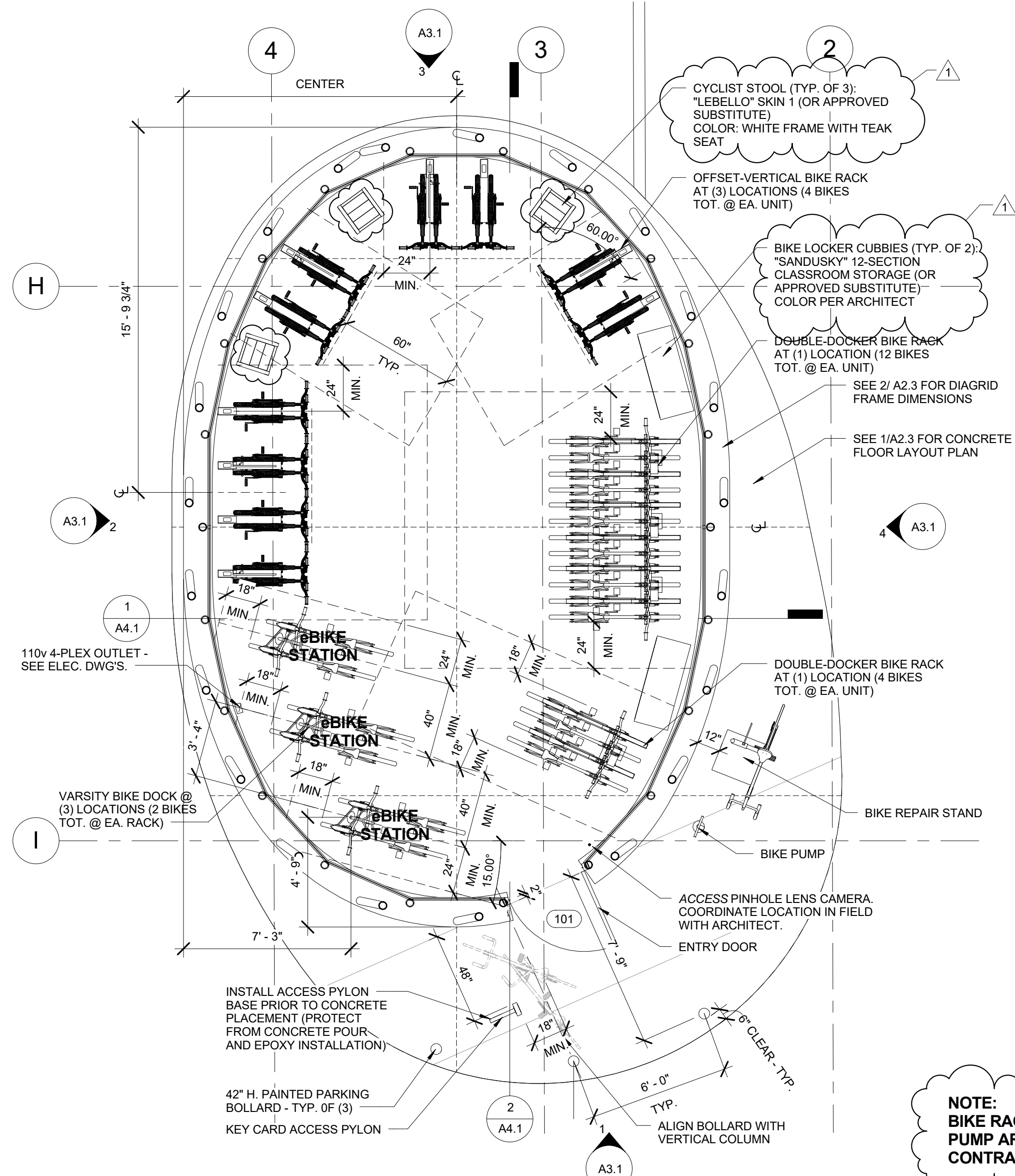
Revision No.	Description	Date

Project number 2017.13  
Date 10/12/18  
Drawn by RL T  
Checked by

Permit Submittal

Partial Garage Plan

**A2.1**



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**CCDC BikeBOI Parking Station**  
9th Main Parking Garage  
848 W. Main Street, Boise, Idaho

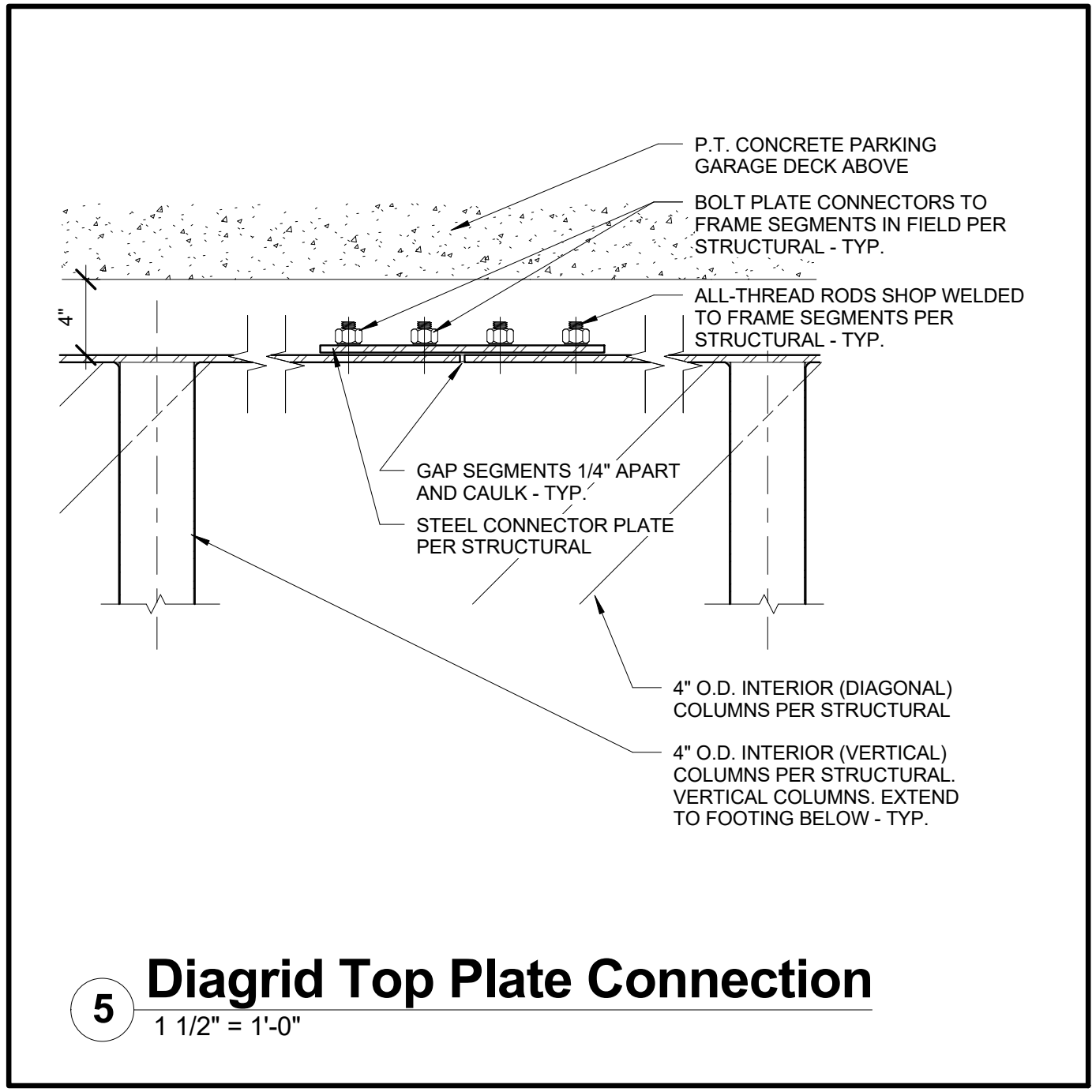
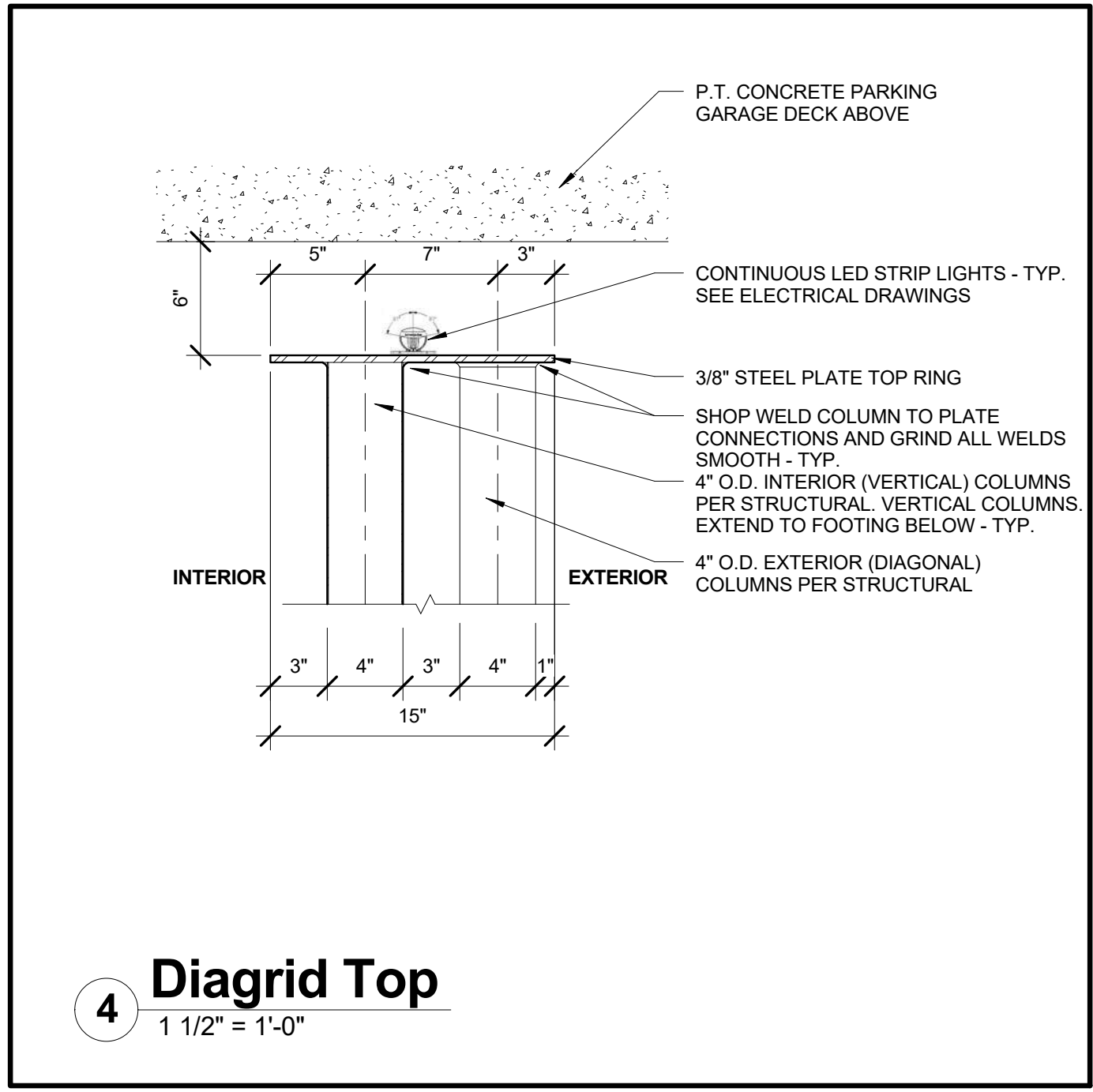
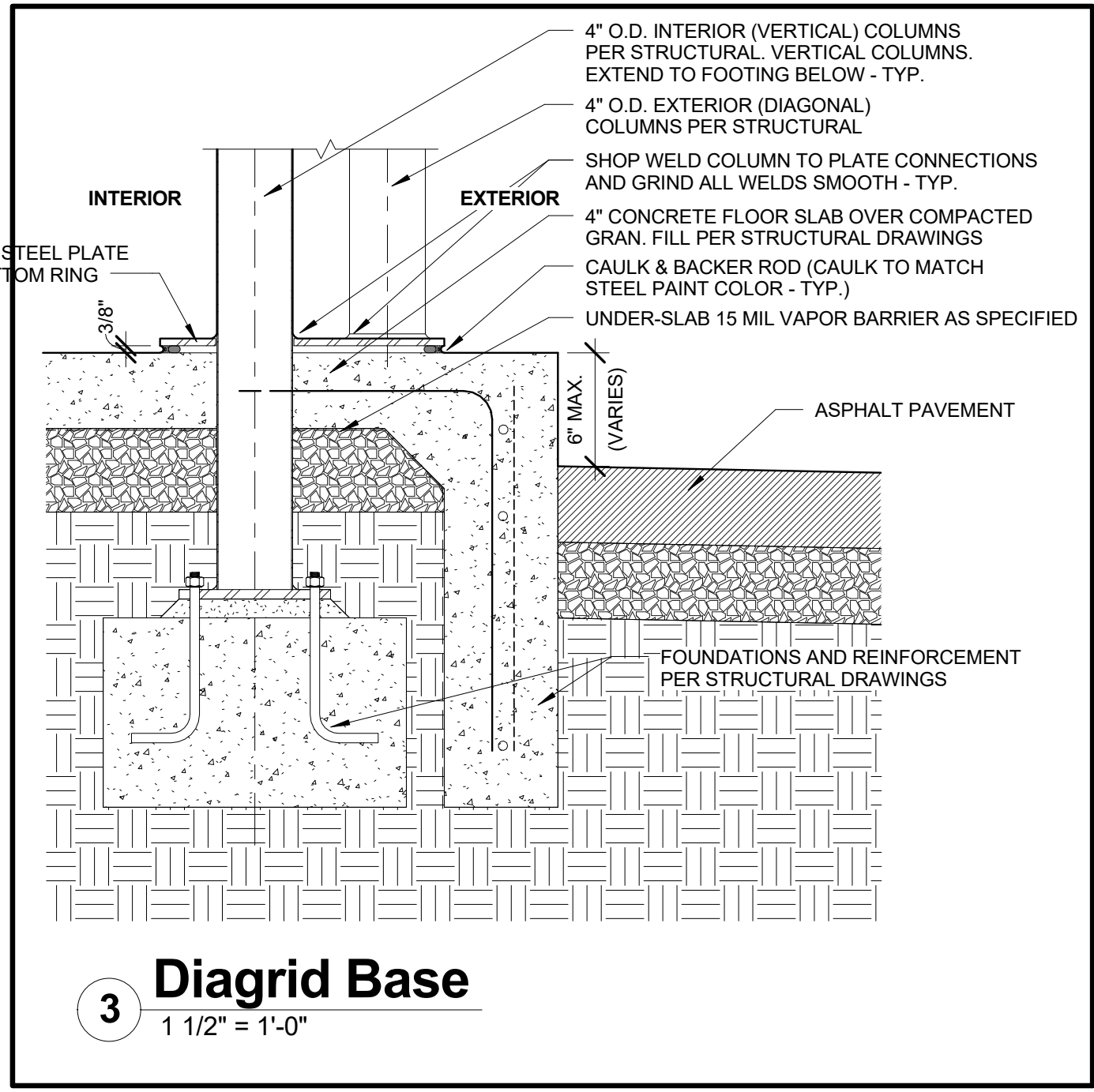
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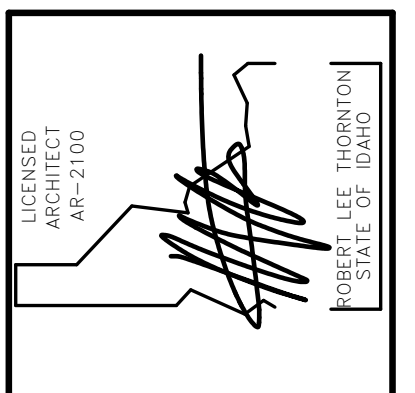
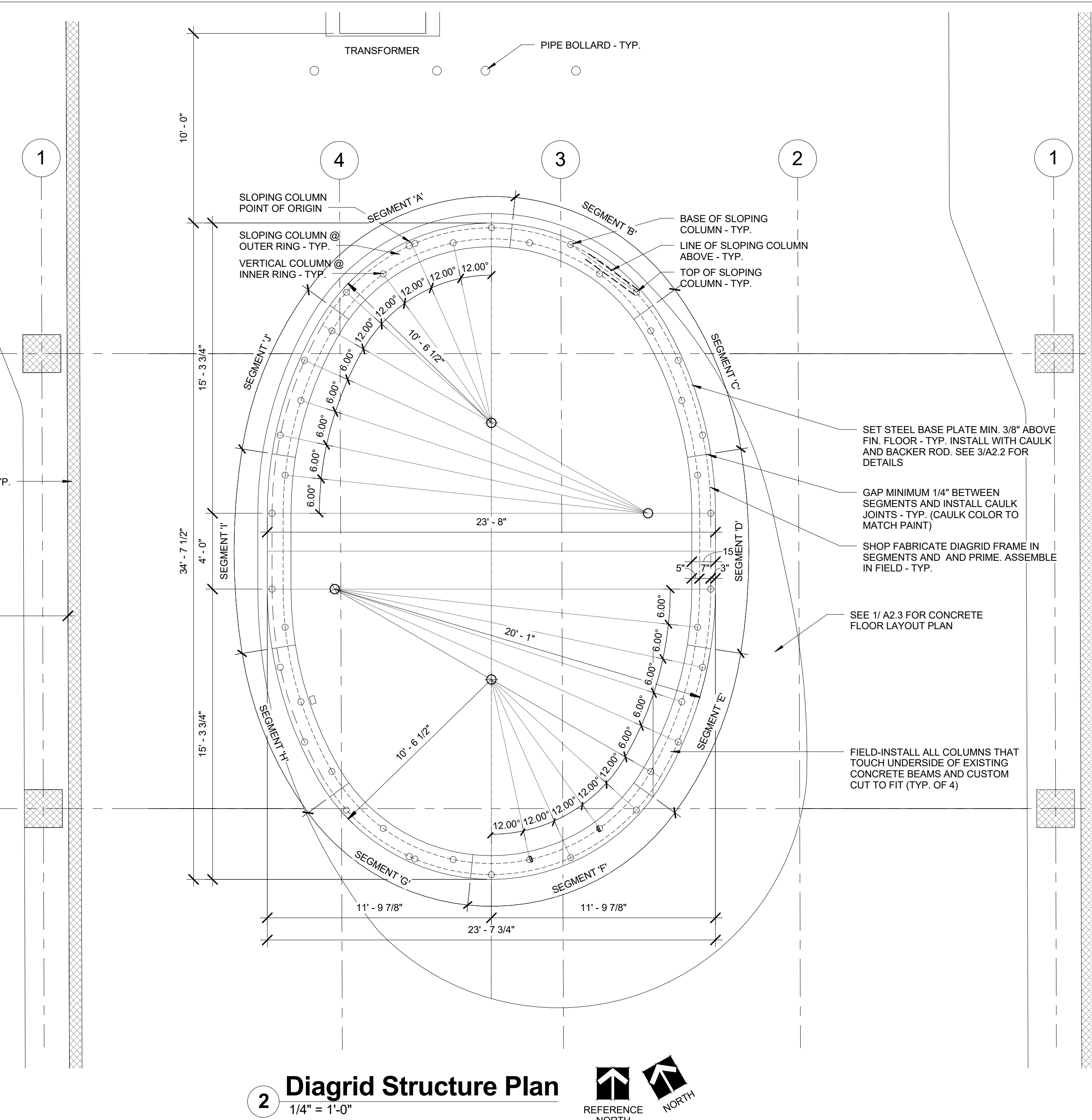
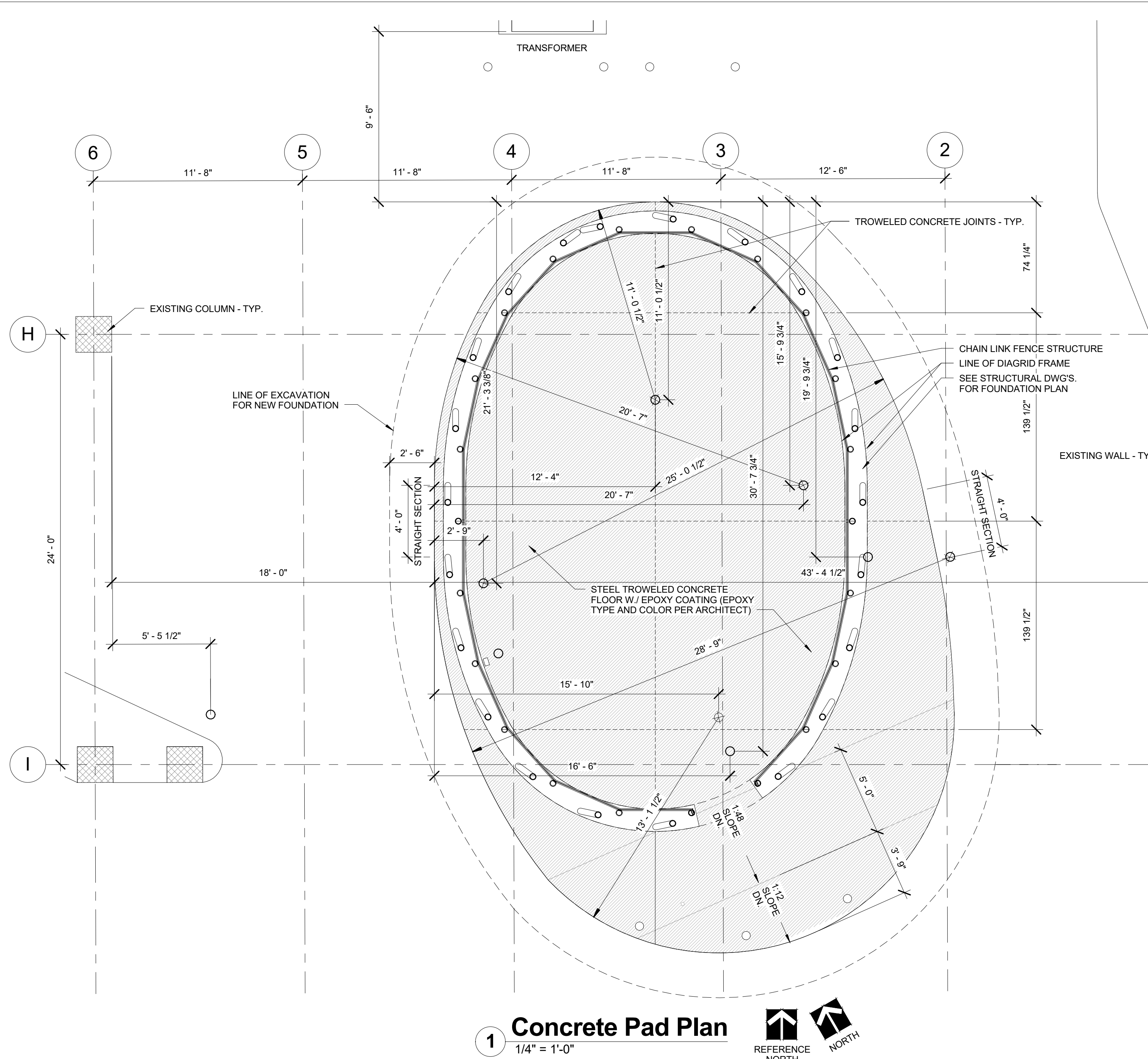
Revision No.	Description	Date
1	Owner Rev.	10/31/18

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Date 10/12/18  
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**Bike Shelter Plans**  
**A2.2**





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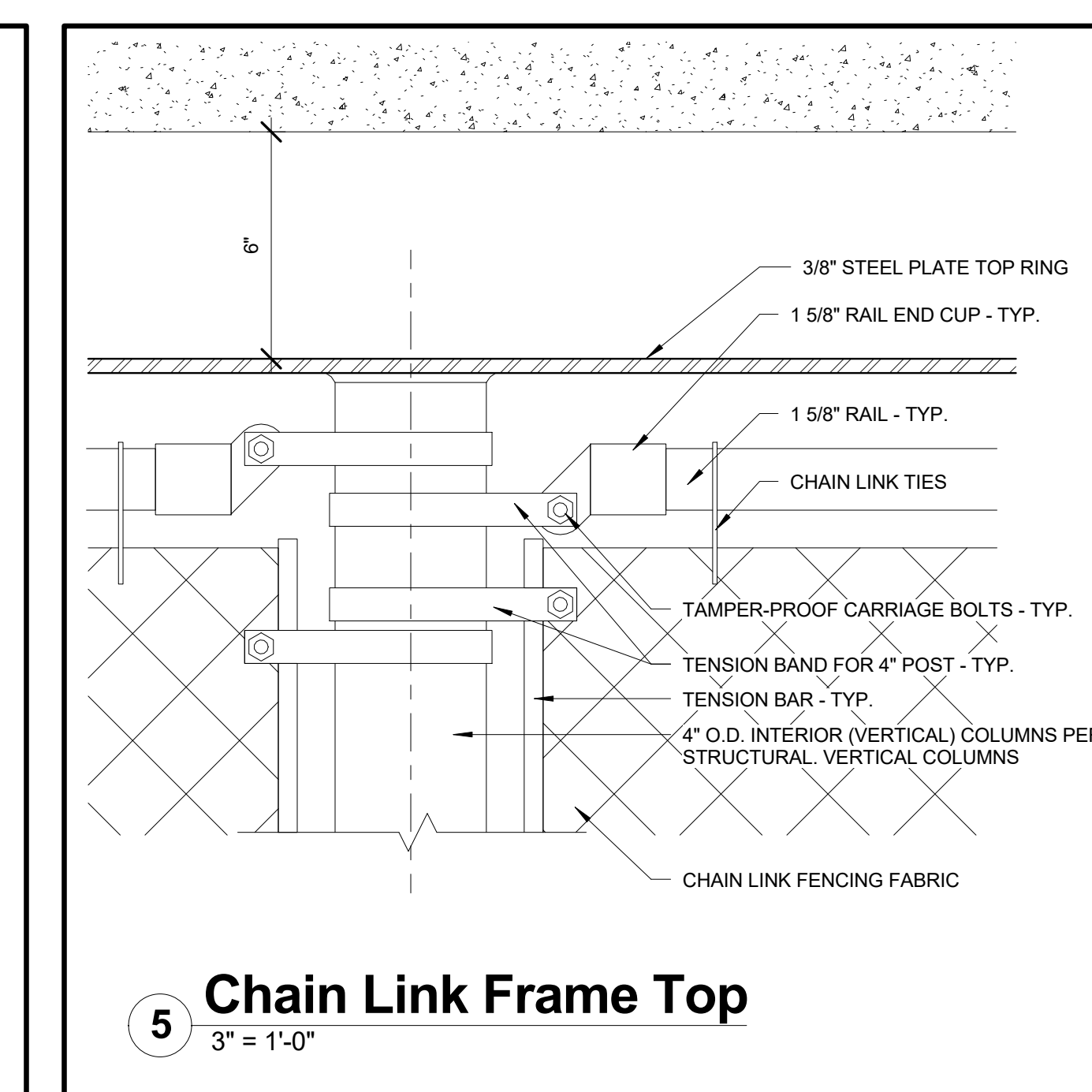
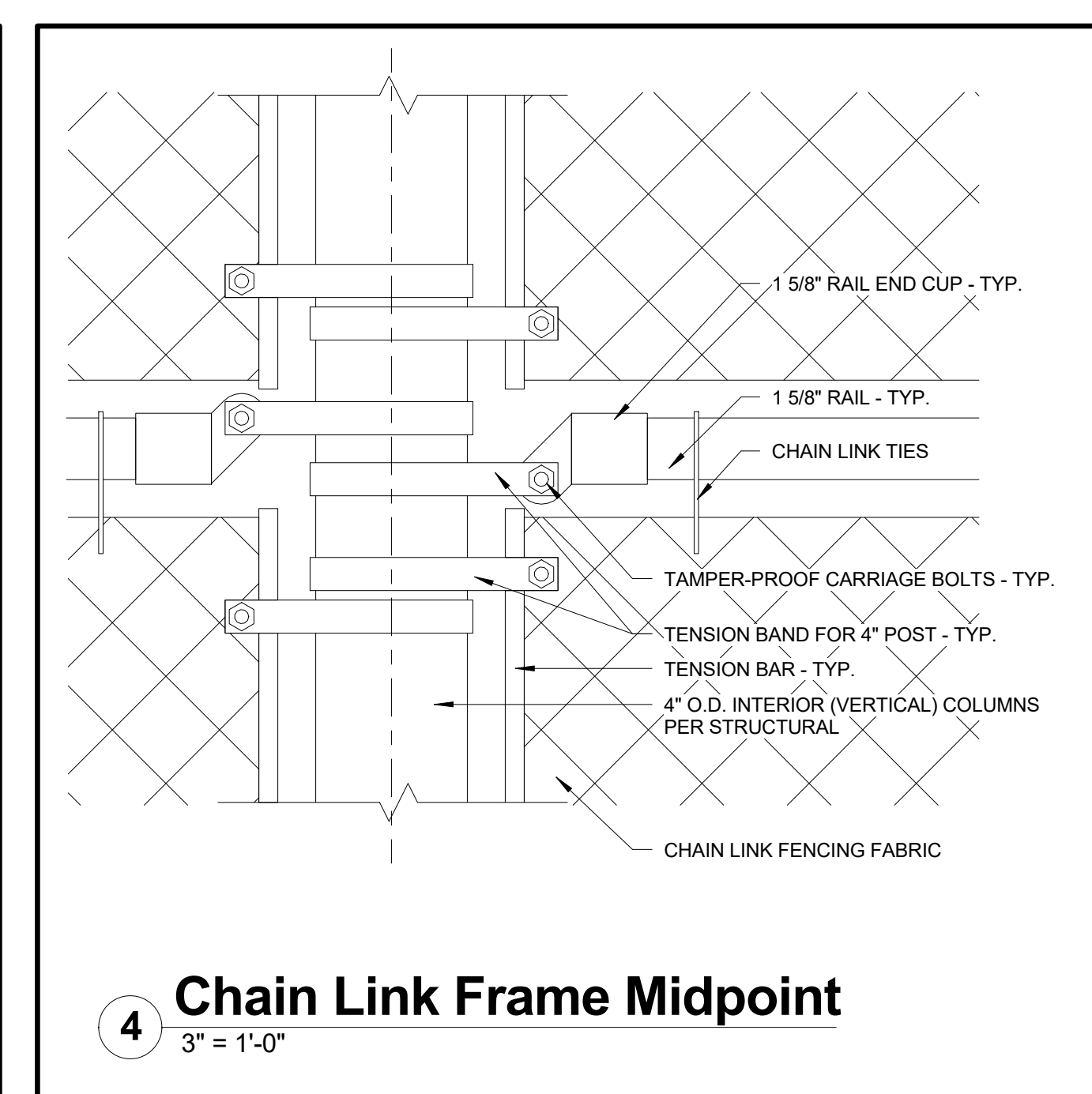
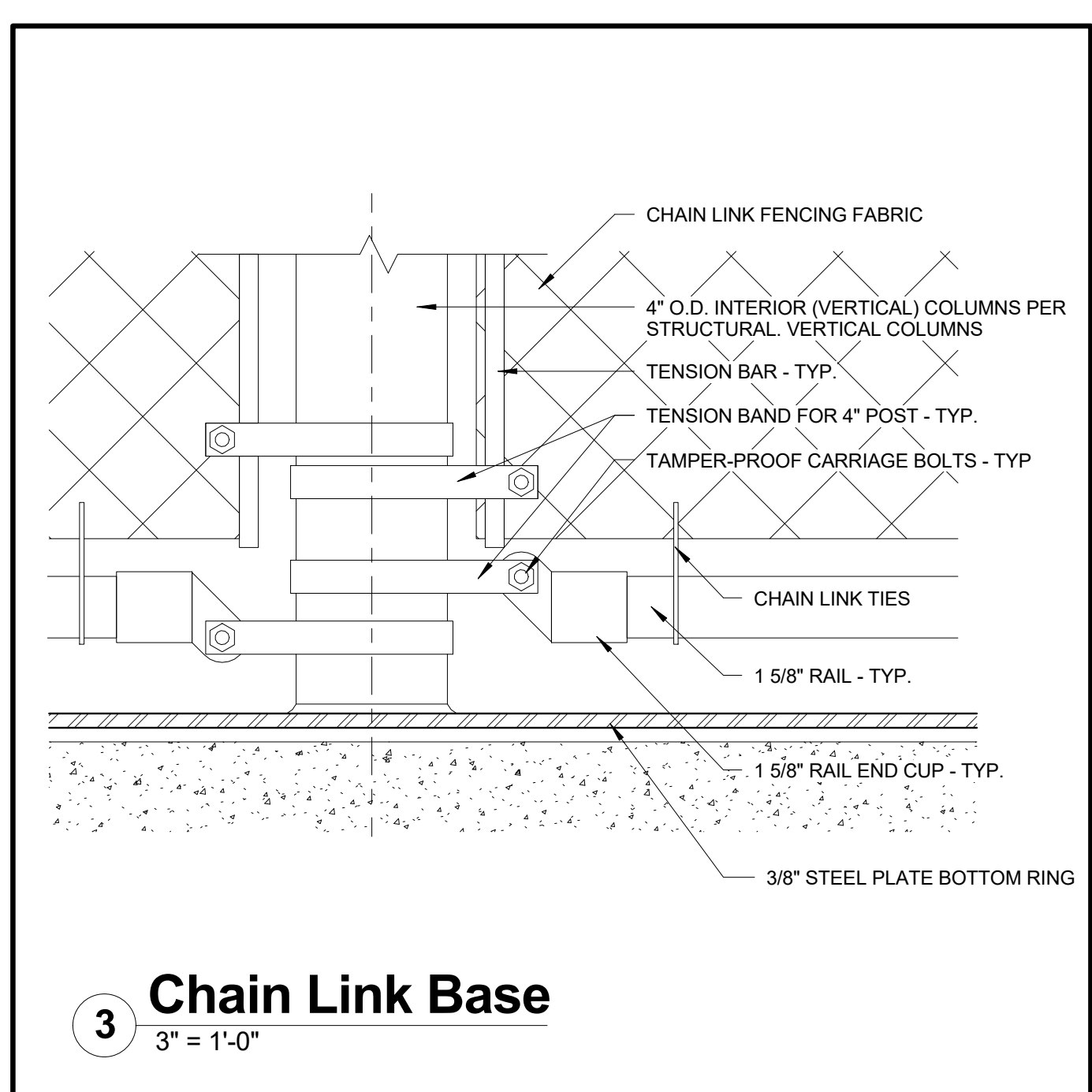
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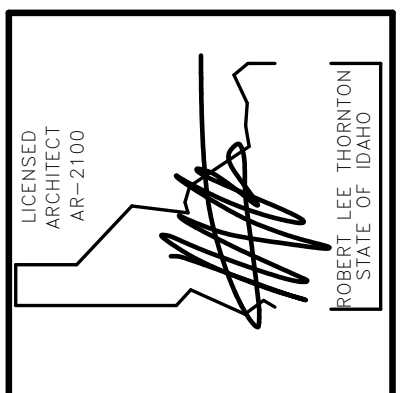
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**Bike Shelter Layout Plans**  
**A2.3**





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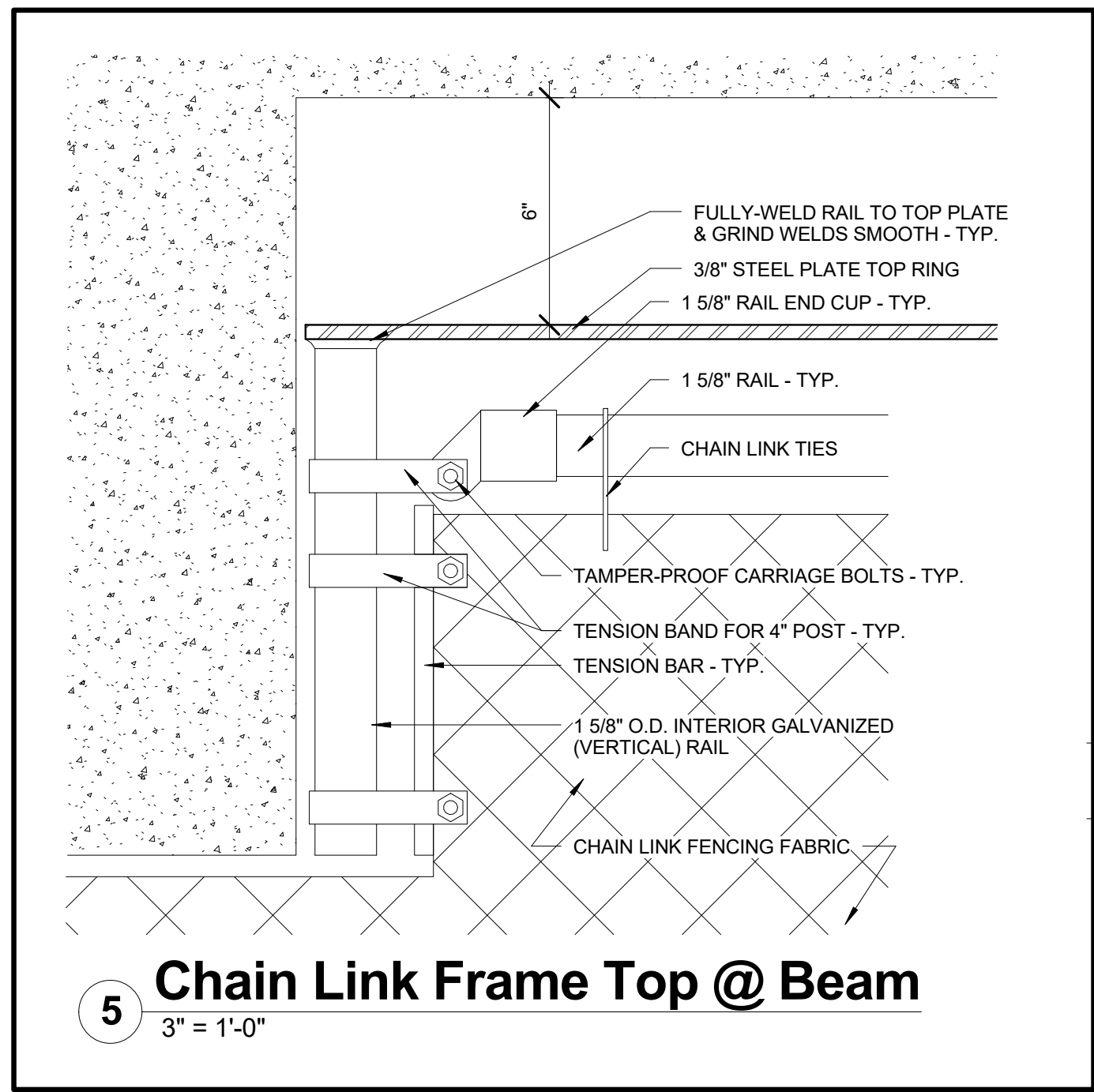
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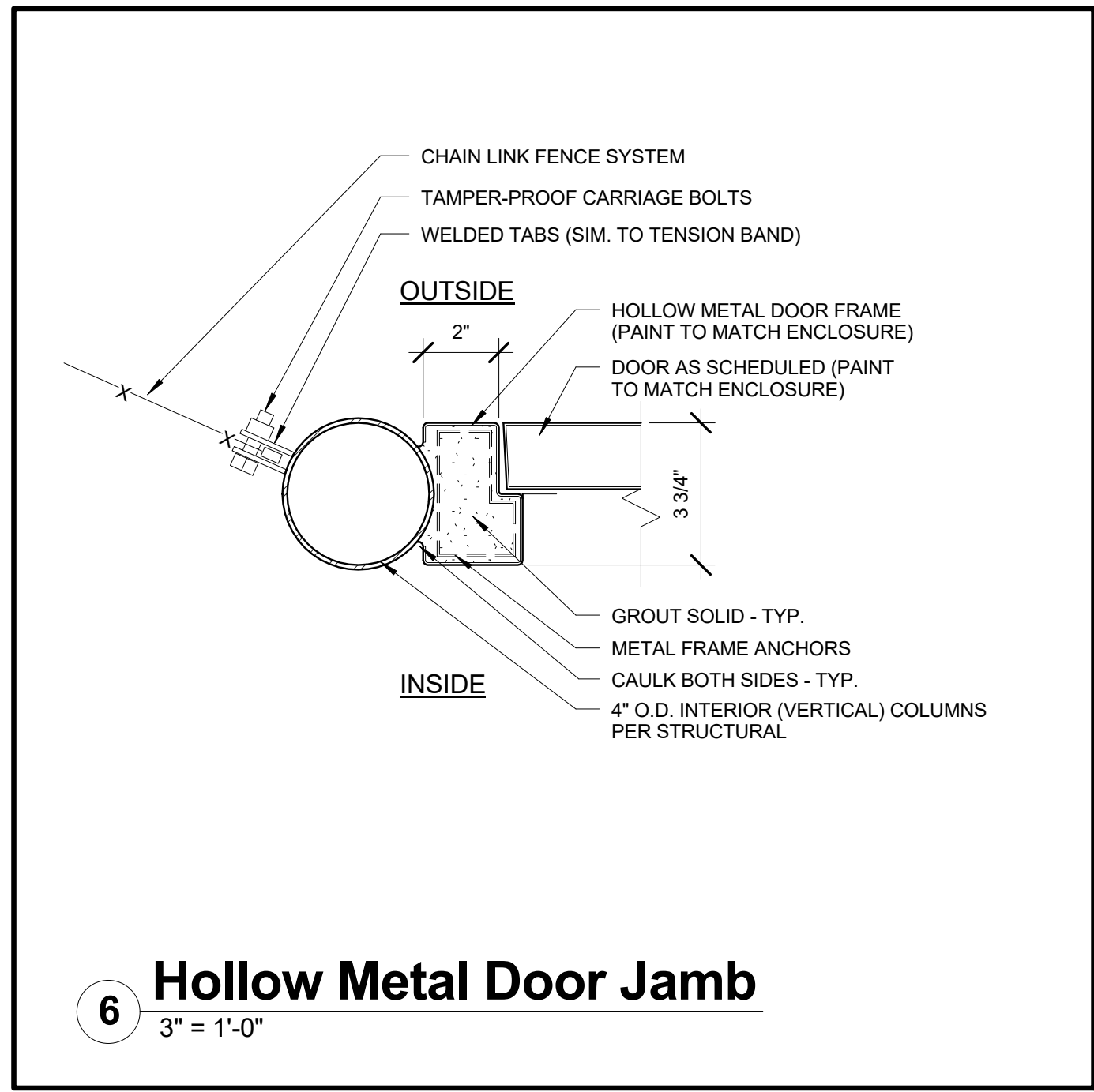
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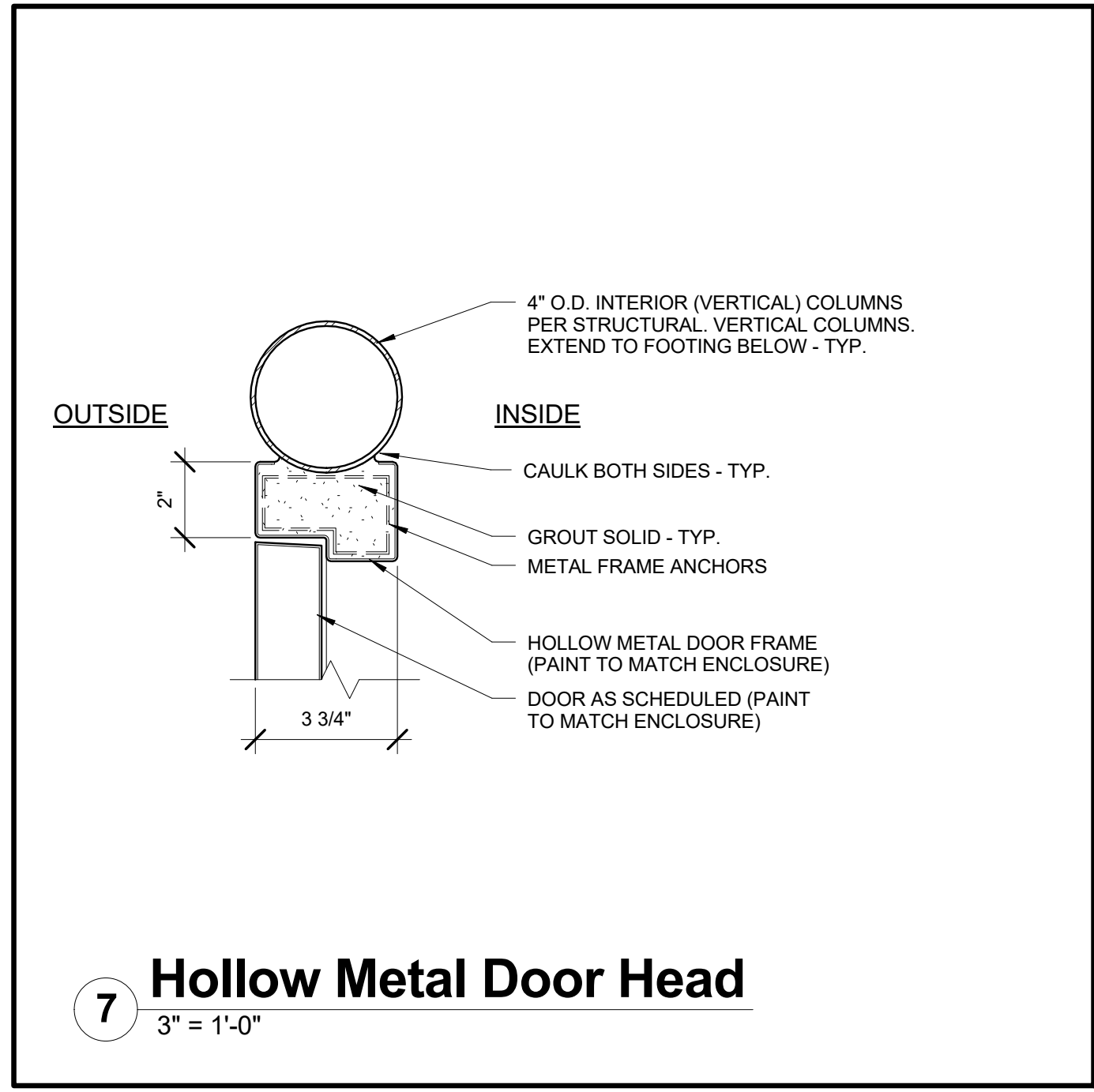
Elevations  
**A3.1**



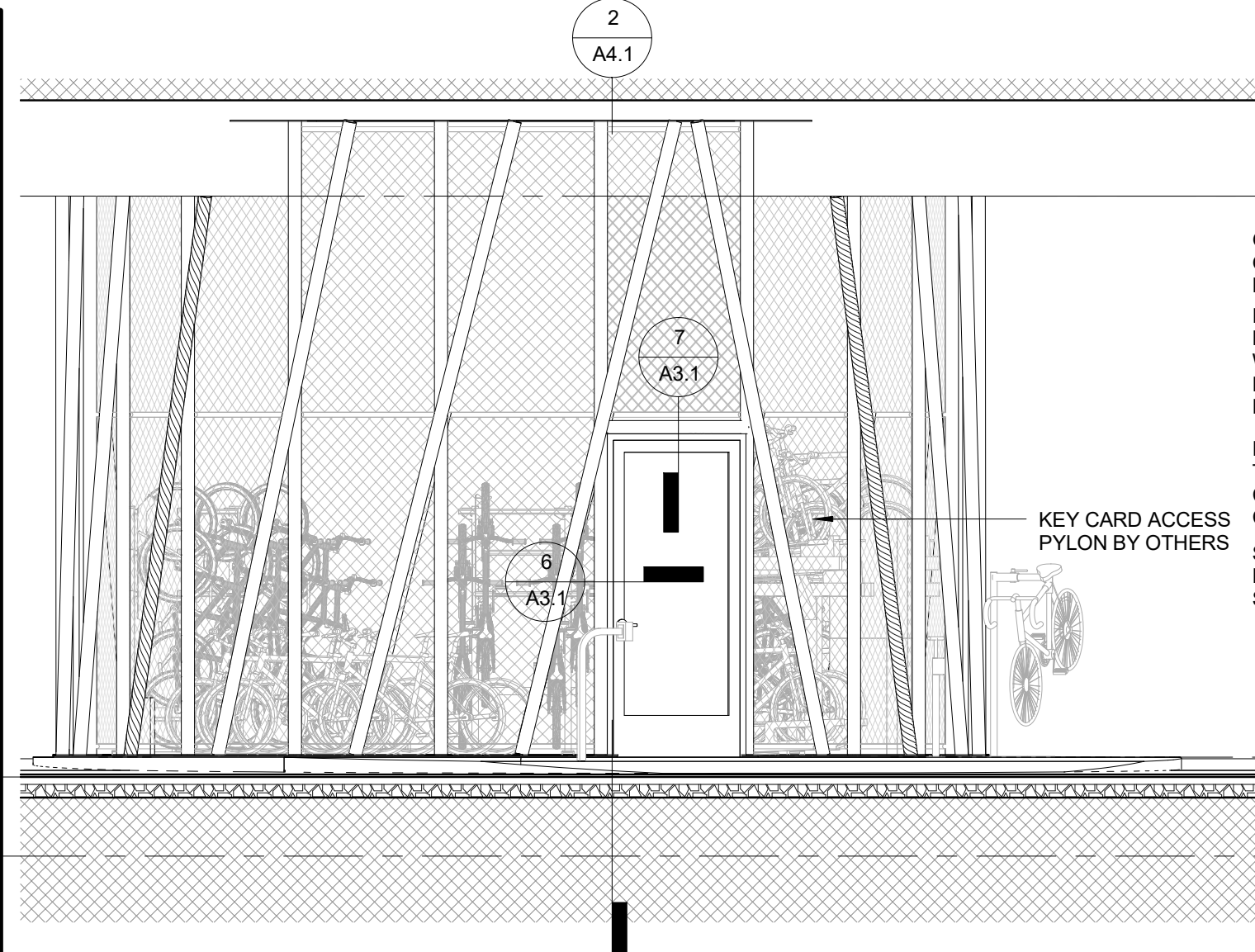
**5 Chain Link Frame Top @ Beam**  
 3" = 1'-0"



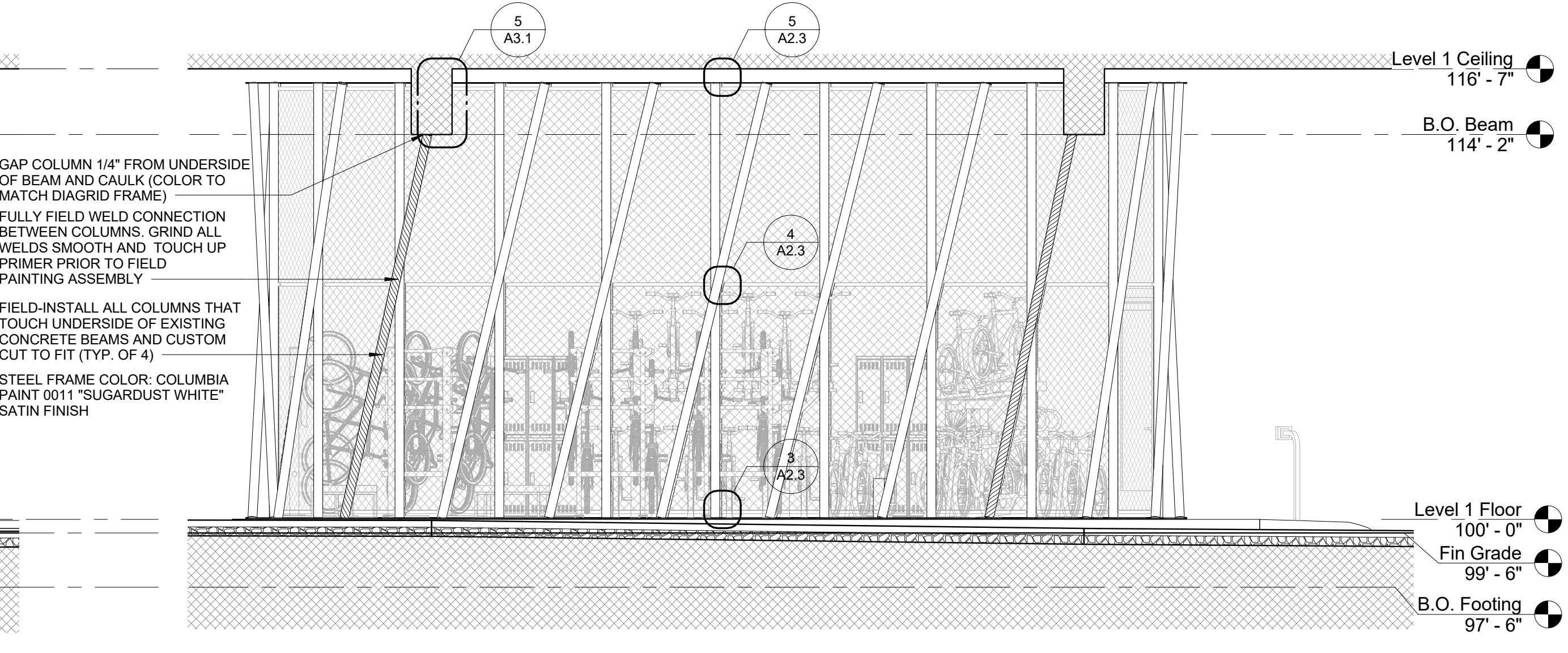
**6 Hollow Metal Door Jamb**  
 3" = 1'-0"



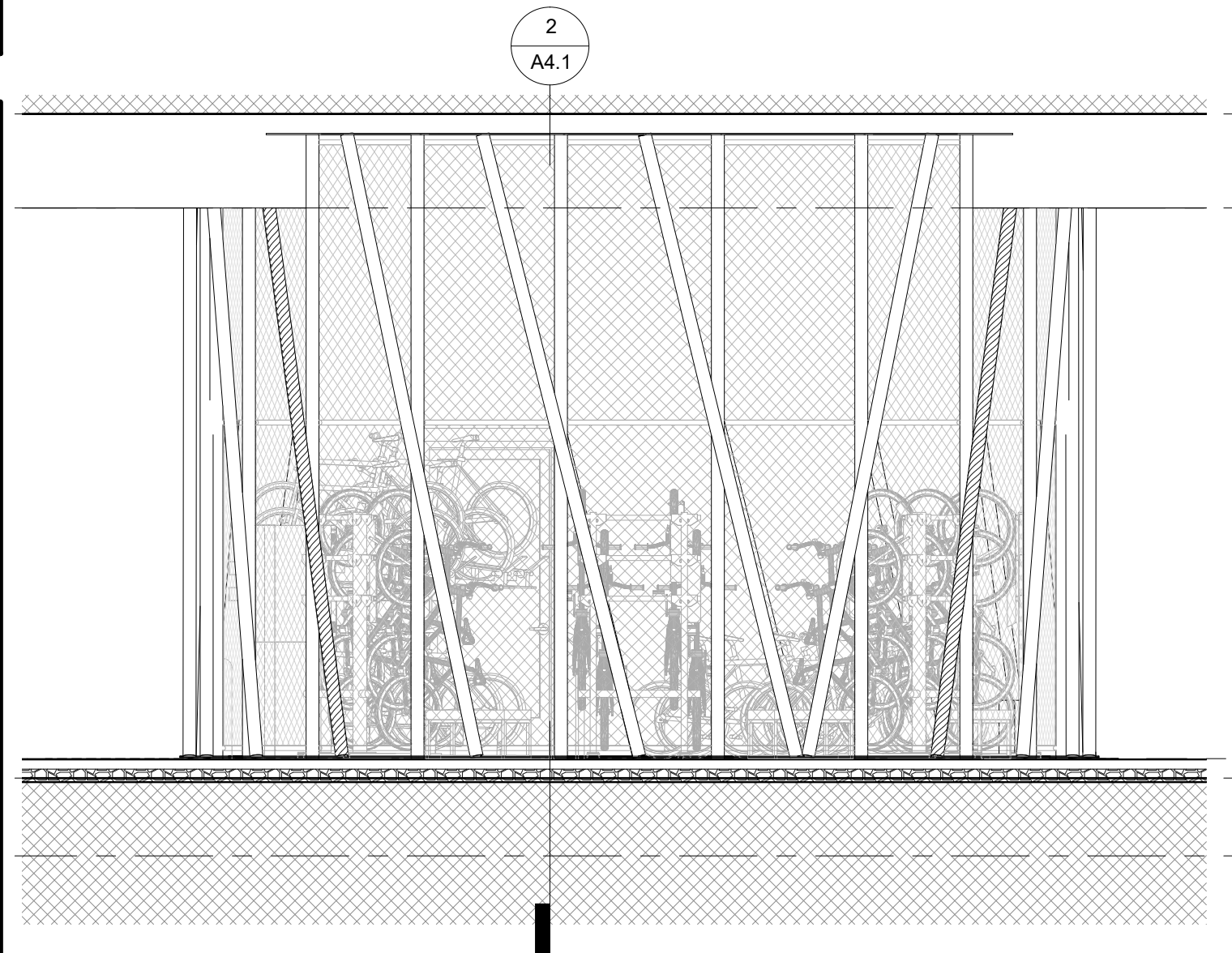
**7 Hollow Metal Door Head**  
 3" = 1'-0"



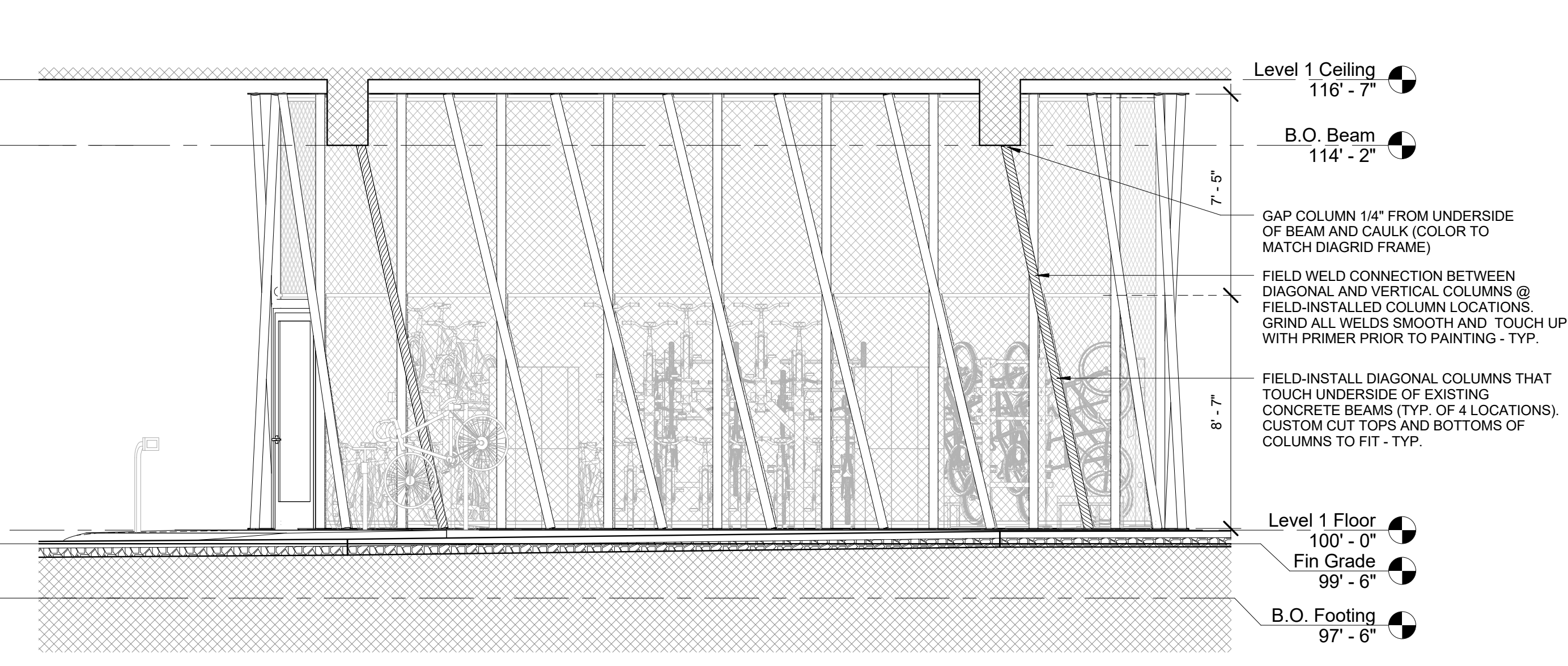
**1 South Elevation**  
 1/4" = 1'-0"



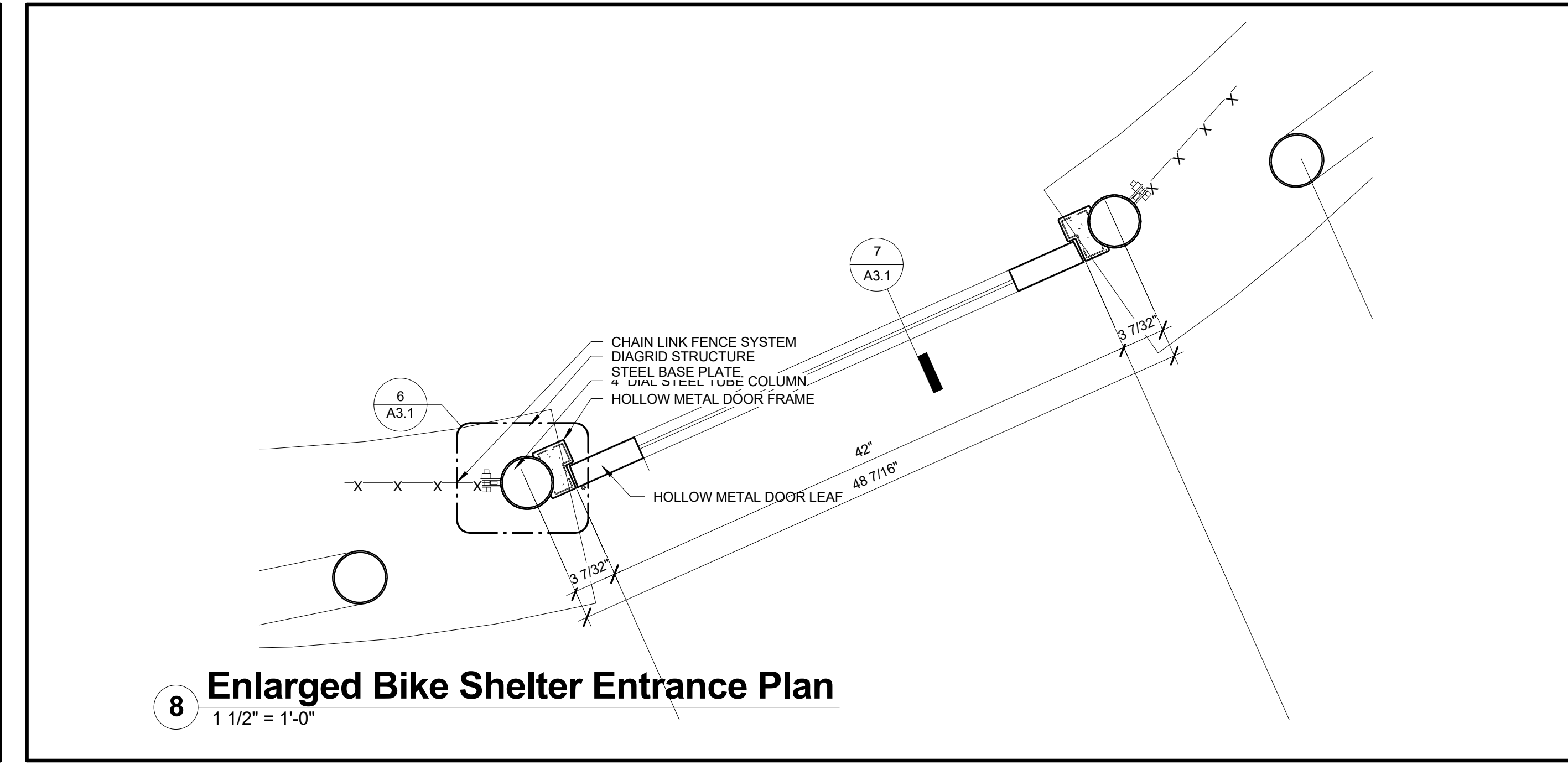
**2 West Elevation**  
 1/4" = 1'-0"



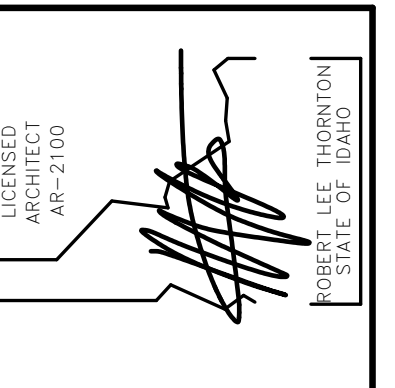
**3 North Elevation**  
 1/4" = 1'-0"



**4 East Elevation**  
 1/4" = 1'-0"



**8 Enlarged Bike Shelter Entrance Plan**  
 1 1/2" = 1'-0"



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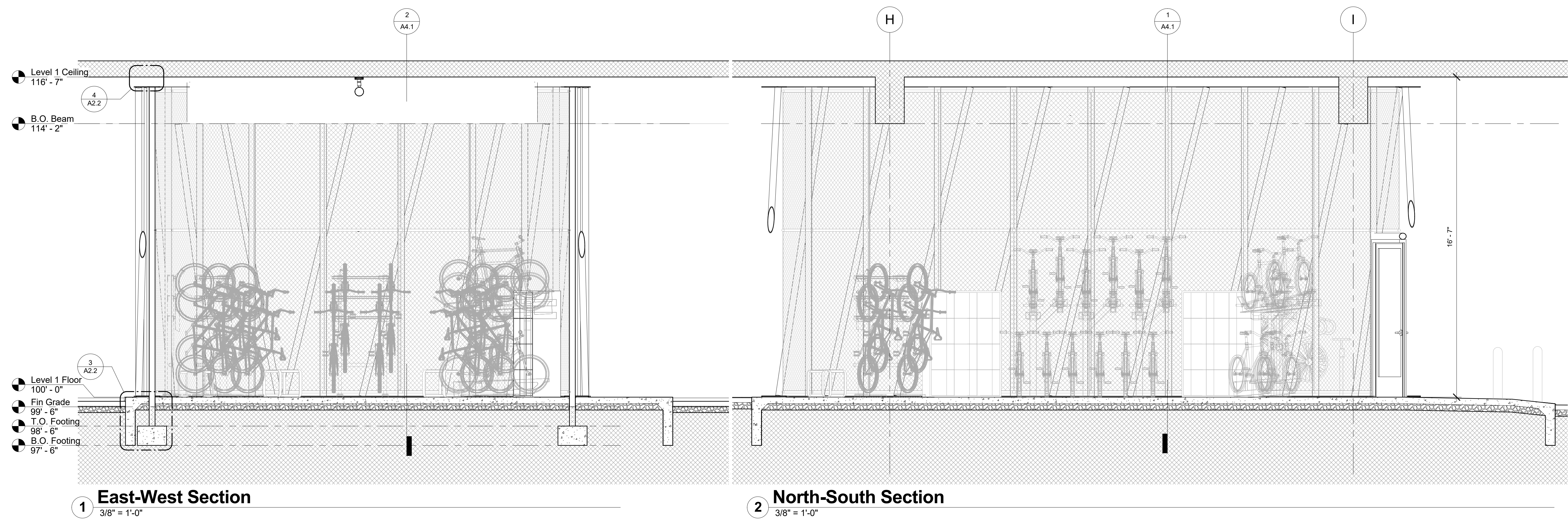
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Sections  
**A4.1**



**1 East-West Section**  
 3/8" = 1'-0"

**2 North-South Section**  
 3/8" = 1'-0"

**NOTE:**  
 EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. A SINGLE ACTION IS TO BOTH UNLATCH AND UNLOCK THE DOOR. THE LOCK AND LATCH IS ALSO REQUIRED TO BE ACCESSIBLE (SEE ICC/ANSI A1117.1-2003, 309.4). DEADBOLTS GENERALLY DO NOT COMPLY. [1008.1.9]

DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 OF THE 2015 IBC SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. (2015 IFC 1008.1.9.1)

Door Hardware Schedule			
HW Set #1 Doors: 101			
3 ea	Hinge	MPB99xNRP 4-1/2" x 4-1/2"	US32D McKinney
1 ea	Rim Exit Device	8504 862 US32D	US32D Sargent
1 ea	Electric Strike	9600	630 HES
1 ea	Pull	RM412 Mtg-Type 1XHD	US32D Rockwood
1 ea	Closer	7114SZ	689 Norton
1 ea	Silencer	608- RKW	Rockwood
Access Control			
1 ea	Card Reader PR40		HID
1 ea	Reader Box	VE 5x5	VIKING
1 ea	Pedestal	VE-GNP-IG	VIKING
1 ea	Network Camera	P1264	AXIS

Door Schedule																
No.	H	W	Door Type	Thickness	Construction	Facing and Finish	Glass	Fire Rating (Min.)	Frame Type	Frame Finish	Frame Const.	Hardware Group	Details			Comments
													Head	Jamb	Thresh.	
101	8'-0"	3'-6"	C	1 3/4"	PT			1	PT	HM		6/A3.1	5/A3.1	-	1, 2	

Door Schedule Remarks		Door Type Legend	
HM	HOLLOW METAL	1.	EXIT DOOR WITH PANIC HARDWARE AND SELF-CLOSE
PT	PAINT	2.	COMMERCIAL STOREFRONT GLASS DOOR. DOOR HARDWARE SUPPLIER TO PROVIDE KEY CYLINDERS ONLY. ELECTRONIC ACCESS KEY PAD AT THIS DOOR
T	TEMPERED GLASS		

GENERAL STRUCTURAL NOTES (G.S.N.)

GENERAL

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. THESE STRUCTURAL DRAWINGS ARE INTENDED TO PRESENT SUFFICIENT DIMENSIONS TO INDICATE MAJOR PLAN SIZES AND TO LOCATE PRIMARY STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL COORDINATE LOCATION OF SECONDARY ELEMENTS, WALLS, OR MEMBERS RELATED TO OTHER DISCIPLINES. USE DETAILS MARKED "TYPICAL" WHEREVER APPLICABLE. CHANGES, OMISSIONS OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE (IBC). THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE COMPLETION OF ALL FINISH MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE ABOVE-MENTIONED COMPONENTS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

SHOP DRAWINGS

SHOP DRAWINGS ARE TO BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR STRUCTURAL REVIEW. ANY REQUEST FOR MODIFICATION TO THE DRAWINGS MUST BE SUBMITTED IN WRITING. THIS MAY BE ACCOMPLISHED THROUGH THE SHOP DRAWINGS ONLY IF THE CHANGE IS CLEARLY REPRESENTED, CLOUDED AND NOTED AS BEING A REQUESTED CHANGE REQUIRING THE STRUCTURAL ENGINEER APPROVAL. CHANGES TO THE DRAWINGS BY WAY OF THE SHOP DRAWINGS THAT ARE NOT CLEARLY NOTED AS STATED ABOVE, DO NOT CONSTITUTE AN AUTHORIZED CHANGE EVEN THOUGH THE DRAWINGS HAVE BEEN STAMPED WITH THE STRUCTURAL ENGINEER REVIEW STAMP. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR EACH SUBCONTRACTOR.

SHOP DRAWINGS SHALL INCLUDE PLANS AND DETAILS AS NECESSARY TO INDICATE UNDERSTANDING OF THE CONTRACT DOCUMENTS. ENSURE ADEQUATE COPIES OF SHOP DRAWINGS ARE SUBMITTED FOR THE CONTRACTOR, ARCHITECT, AND STRUCTURAL ENGINEER TO RETAIN ONE COPY EACH FOR THEIR FILES.

SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING:

- \* CONCRETE REINFORCING
- \* STRUCTURAL STEEL

INFORMATIONAL SUBMITTALS

SUBMITTALS ARE TO BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR STRUCTURAL REVIEW. SUBMITTALS SHALL INCLUDE CURRENT PRODUCT ICG/CMPO REPORTS WHERE APPLICABLE AND INDICATED LOCATIONS OF USAGE FOR THE PRODUCT. ENSURE ADEQUATE COPIES OF SUBMITTALS ARE SUBMITTED FOR THE CONTRACTOR, ARCHITECT, AND STRUCTURAL ENGINEER TO RETAIN ONE COPY EACH FOR THEIR FILES.

INFORMATIONAL SUBMITTALS ARE REQUIRED FOR THE FOLLOWING:

- \* CONCRETE MIX DESIGN

PRODUCT AND MATERIAL SUBSTITUTIONS

PRODUCTS AND MATERIALS ARE TO BE AS SPECIFIED IN THE CONTRACT DOCUMENTS. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER AND ARCHITECT.

DESIGN LOADS

RISK CATEGORY PER IBC	II
IMPORTANCE FACTOR (SEISMIC) I <sub>e</sub>	1.0
S <sub>s</sub>	0.312
S <sub>1</sub>	0.106
SITE CLASS	C
S <sub>ds</sub>	0.322
S <sub>d1</sub>	0.168
SEISMIC DESIGN CATEGORY	C
SEISMIC FORCE RESISTING SYSTEM	CANTILEVERED COLUMN
DESIGN BASE SHEAR	C <sub>s</sub> W
SEISMIC RESPONSE COEFFICIENT, C <sub>s</sub>	0.014
RESPONSE MODIFICATION FACTOR, R	2.5
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

FOUNDATION

DESIGN ALLOWABLE SOIL BEARING PRESSURE = 1,500 PSF ASSUMED. BOTTOM OF ALL FOOTINGS TO BEAR ON COMPETENT, NATIVE, INORGANIC, UNDISTURBED SOIL. 1'-0" MINIMUM BELOW EXISTING GRADE OR COMPACTED STRUCTURAL FILL. EXTEND ALL EXTERIOR FOOTINGS 24" MINIMUM BELOW FINISHED GRADE. NO FOOTING SHALL BEAR HIGHER THAN A 1 VERTICAL TO 1.5 HORIZONTAL SLOPE ABOVE ANY EXCAVATION, EXISTING OR PLANNED. THERE SHALL BE 95% COMPACTION (ASTM D1557 MODIFIED PROCTOR DENSITY) OF ALL BACKFILL SOIL UNDER SLABS ON GRADE.

CAST-IN-PLACE CONCRETE

- FOOTINGS:
- \* ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 2500 PSI
  - \* MAXIMUM SLUMP: 3" +/- 1"
  - \* MAXIMUM W/C RATIO: 0.50
  - \* AIR ENTRAINMENT: NO REQUIREMENT
  - \* MAXIMUM AGGREGATE SIZE: 3/4"

- FOUNDATION WALLS, PIERS, & EXPOSED CONCRETE SLABS:
- \* ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 4000 PSI
  - \* MAXIMUM SLUMP: 4" +/- 1"
  - \* MAXIMUM W/C RATIO: 0.45
  - \* AIR ENTRAINMENT: 6% +/- 1%
  - \* MAXIMUM AGGREGATE SIZE: 3/4"

CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 318-14. REFER TO ACI 302.1R-04 FOR SLAB ON GRADE MIX DESIGN. LOCATION OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER IF DIFFERENT FROM THAT SHOWN ON PLANS.

REINFORCING STEEL

WELDED WIRE REINFORCING: ASTM A82 AND A185.  
DEFORMED BARS: ASTM A615, GRADE 40 FOR #3, GRADE 60 FOR #4 & LARGER.

LAP SPLICES (HORIZONTAL AND VERTICAL STEEL)

- \* CONCRETE: 52-BAR DIA. FOR BEAMS, COLUMNS, RETAINING AND ABOVE-GRADE WALLS FOR #6 & SMALLER.  
40-BAR DIA. OTHER, UNLESS NOTED OTHERWISE FOR #6 & SMALLER.

WELDED WIRE FABRIC SPLICES: WIRE SPACING + 2".

CONCRETE COVER: UNLESS OTHERWISE NOTED ON THESE DRAWINGS, UTILIZE THE FOLLOWING CLEAR EMBEDMENT AT REINFORCING BARS VALUES FOR CAST-IN-PLACE, NON-PRE-STRESSED CONCRETE TYPICALLY:

CONCRETE CAST AGAINST SOIL = 3"  
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER = 1-1/2" (#5 OR LESS)  
SLAB ON GRADE = 1-1/2".

SECURELY TIE ALL REINFORCING IN PLACE WITH DOUBLE ANNEALED 16-GAUGE IRON WIRE OR APPROVED CLIPS. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

GROUT AND EPOXY ADHESIVES

NON-SHRINK GROUT: "MASTERFLOW 928" AS MANUFACTURED BY BASF BUILDING SYSTEMS OR APPROVED EQUIVALENT.

EPOXYADHESIVES:

- \* FOR INSTALLATION IN CONCRETE: SIMPSON "SET-XP" (ESR-2508)

STRUCTURAL AND MISC. STEEL

WIDE FLANGE SHAPES: ASTM A992, F<sub>y</sub> = 50 KSI MINIMUM.

CHANNELS, ANGLES, PLATES AND BARS: ASTM A36, F<sub>y</sub> = 36 KSI MINIMUM.

HOLLOW STRUCTURAL SHAPES (HSS): ASTM A500, GRADE B, F<sub>y</sub> = 46 KSI (RECTANGULAR SECTIONS), F<sub>y</sub> = 42 KSI (ROUND SECTIONS).

PIPE: ASTM A53 OR A501, F<sub>y</sub> = 35 KSI MINIMUM.

BOLTS: ASTM A325 HIGH STRENGTH BOLTS (H.S.B.) UNLESS NOTED AS ASTM A307 MACHINE BOLTS (M.B.). WHERE HIGH STRENGTH BOLTS ARE USED, THEY SHALL BE INSTALLED WITH LOAD INDICATOR DEVICES (LOAD INDICATOR WASHERS OR SNAP-OFF HEADS). WHERE AN OVERSIZED OR SHORT SLOTTED HOLE OCCURS IN AN OUTER PLY OF ANY CONNECTION, A HARDENED WASHER SHALL BE USED.

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36 KSI. PROVIDE DOUBLE NUT FOR LEVELING AT COLUMNS OR BEAM BASE PLATES.

MECHANICAL BOLTS: IN CONCRETE AND GROUTED MASONRY, SIMPSON "STRONG-BOLT 2" (ESR-3037, ER-240) OR "TITEN HD" (ESR-2713, ESR-1056) OR APPROVED EQUIVALENT

EPOXY ANCHORS: CARBON STEEL THREADED ANCHOR RODS CONFORMING TO ASTM A307 GRADE C, OR ASTM A193 GRADE B7; OR STAINLESS STEEL THREADED ANCHOR RODS CONFORMING TO ASTM F593, ALLOY GROUP 1, TYPE 304, CONDITION CW. INSTALL RODS USING APPROPRIATE EPOXY ADHESIVE FOR THE BASE MATERIAL ACCORDING TO THE "GROUT AND EPOXY ADHESIVE" SECTION ABOVE.

HEADED ANCHOR STUD (H.A.S.) AND THREADED ANCHOR STUD (T.A.S.): ASTM A108-69T, F<sub>y</sub> = 50 KSI. END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

DEFORMED BAR ANCHORS (D.B.A.): ASTM A496, F<sub>y</sub> = 70 KSI, ATTACHED WITH NELSON STUD GUN OR ASTM A706, F<sub>y</sub> = 60 KSI END WELDED WITH 3/16" FILLET ALL-AROUND.

POWDER DRIVEN FASTENERS (PDF): FOR ATTACHMENT TO CONCRETE AND STRUCTURAL STEEL, 0.157"Ø SIMPSON "PDPA" (ESR 2138) OR APPROVED EQUIVALENT.

WELDING ELECTRODES OR WIRES: AWS A5.1 OR A5.5, E70XX; AWS A5.18, E70S-X; AWS A5.20, E7XT-X.

ERECTION AND FABRICATION: IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". WELDING SHALL CONFORM TO AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS. ALL COLUMNS AND BEAMS TO BE FROM UN-SPLICED LENGTHS UNLESS NOTED OTHERWISE ON THE DRAWINGS. SUBMIT SHOP DRAWINGS SHOWING SIZES, DIMENSIONS AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

FIELD WELDS: WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED IN THE SHOP WHENEVER PRACTICAL. AN EFFORT HAS BEEN MADE TO INDICATE WELDS THAT CAN BE OR SHOULD BE FIELD WELDED. IT IS, HOWEVER, THE FABRICATOR'S RESPONSIBILITY TO DECIDE WHERE AND HOW THE WELDING IS TO BE ACCOMPLISHED TO ACHIEVE THE INTENDED RESULT.

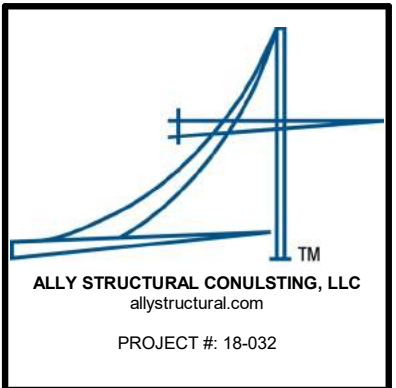
COMPLETE JOINT PENETRATION WELD (C.J.P.): PROVIDE BACKER BARS, RUN OFF TABS, AND ACCESS HOLES PER AWS D1.1. BACKER BARS SHALL BE REMOVED AFTER WELDING, THE ROOT WELD BACK GOUGED AND REPAIRED IF NECESSARY AND REINFORCED WITH A FILLET. RUN OFF TABS SHALL BE REMOVED AFTER WELDING WITH THE FLANGE EDGE GROUND SMOOTH.

SPECIAL STRUCTURAL INSPECTIONS

THE OWNER SHALL EMPLOY A SPECIAL INSPECTION SERVICE TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE. INSPECTION REPORTS FOR THE ITEMS LISTED IN THE SPECIAL INSPECTION TABLES SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER OF RECORD IN A TIMELY MANNER. INSPECTION REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES THAT ARE NOT CORRECTED SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE OWNER AND STRUCTURAL ENGINEER OF RECORD.

SPECIAL INSPECTION TABLE 1 1705.6 SOILS				
YES	NO	MATERIAL/ACTIVITY	CONTINUOUS	PERIODIC
X		1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X
X		2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X
X		3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X
X		4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF FILL.	X	
X		5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

SPECIAL INSPECTION TABLE 2 1705.3 CONCRETE CONTRUCTION				
YES	NO	MATERIAL/ACTIVITY	CONTINUOUS	PERIODIC
X		1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		X
X		2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2 ITEM 2B.		X
	X	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED PER SECTION 1908.5 OR WHERE STRENGTH DESIGN IS USED.		X
X		4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		X
X		5. VERIFY USE OF REQUIRED DESIGN MIX		X
X		6. AT THE TIME OF FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	
X		7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	
X		8. INSPECTION FOR MAINTENANCE OF SPECI ED CURING TEMPERATURE AND TECHNIQUES.		X
	X	9. INSPECTION OF PRESTRESSED CONCRETE:		
		A. APPLICATION OF PRESTRESSING FORCES	X	
		B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM	X	
X		10. ERECTION OF PRECAST CONCRETE MEMBERS.		X
	X	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUC-TURAL SLABS.		X
X		12. INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X



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9th Main Parking Garage  
848 W. Main Street, Boise, Idaho

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Revision		
No.	Description	Date

Project number 2017.13  
Date 10/03/2018  
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General Structural Notes

**S1.1**

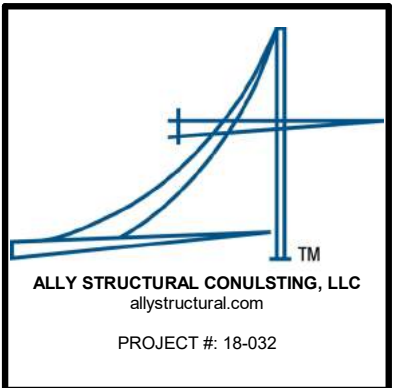
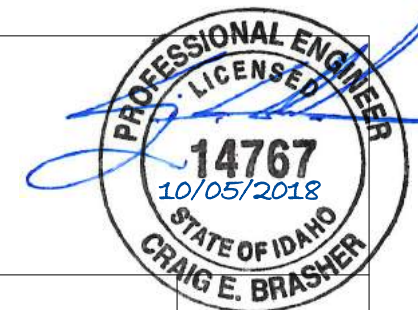


**SPECIAL INSPECTION TABLE 3  
1705.2.1 STRUCTURAL STEEL**

YES	NO	MATERIAL/ACTIVITY	CONTINUOUS	PERIODIC
<u>WELDING:</u> (AISC360) TABLE C-N5.4-1 INSPECTION TASKS PRIOR TO WELDING				
X		1. WELDING PROCEDURE SPECIFICATIONS WPSs AVAILABLE	X	
X		2. MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES AVAILABLE	X	
X		3. MATERIAL IDENTIFICATION (TYPE/GRADE)		X
X		4. WELDER IDENTIFICATION SYSTEM		X
X		5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		X
		A. JOINT PREPARATION		
		B. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		
		C. CLEANLINESS (CONDITION OF STEEL SURFACE)		
		D. TACKING (TACK WELD QUALITY AND LOCATION)		
		E. BACKING TYPE AND T (IF APPLICABLE)		
X		6. CONFIGURATION AND FINISH OF ACCESS HOLES		X
X		7. FIT-UP FOR FLLET WELDS		X
		A. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)		
		B. CLEANLINESS (CONDITION OF STEEL SURFACES)		
		C. TACKING (TACK WELD QUALITY AND LOCATION)		
X		8. CHECK WELDING EQUIPMENT		X
<u>WELDING:</u> (AISC360) TABLE C-N5.4-2 INSPECTION TASKS DURING WELDING				
X		1. USE OF QUALIFIED WELDERS		X
X		2. CONTROL AND HANDLING OF WELDING CONSUMABLES		X
		A. PACKAGING		
		B. EXPOSURE CONTROL		
X		3. NO WELDING OVER CRACKED TACK WELDS		X
X		4. ENVIRONMENTAL CONDITIONS		X
		A. WIND SPEED WITHIN LIMITS		
		B. PRECIPITATION AND TEMPERATURE		
X		5. WPS FOLLOWED		X
		A. SETTING ON WELDING EQUIPMENT		
		B. TRAVEL SPEED		
		C. SELECTED WELDING MATERIALS		
		D. SHEILDING GAS TYPE/ OW RATE		
		E. PREHEAT APPLIED		
		F. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)		
		G. PROPER POSITION (F, V, H, OH)		
X		6. WELDING TECHNIQUES		X
		A. INTERPASS AND FINAL CLEANING		
		B. EACH PASS WITHIN PROFILE LIMITATIONS		
		C. EACH PASS MEETS QUALITY REQUIREMENTS		
<u>WELDING:</u> (AISC360) TABLE C-N5.4-3 INSPECTION TASKS AFTER WELDING				

**SPECIAL INSPECTION TABLE 3  
1705.2.1 STRUCTURAL STEEL**

YES	NO	MATERIAL/ACTIVITY	CONTINUOUS	PERIODIC
<u>WELDING:</u> (AISC360) TABLE C-N5.4-1 INSPECTION TASKS PRIOR TO WELDING				
X		1. WELDS CLEANED		X
X		2. SIZE, LENGTH AND LOCATION OF WELDS	X	
X		3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	
		A. CRACK PROHIBITION		
		B. WELD/BASE-METAL FUSION		
		C. CRATER CROSS SECTION		
		D. WELD PROFILES		
		E. WELD SIZE		
		F. UNDERCUT		
		G. POROSITY		
	X	4. ARC STRIKES	X	
	X	5. K-AREA	X	
	X	6. BACKING REMOVED AND WELD TABS REMOVED IF REQUIRED	X	
X		7. REPAIR ACTIVITIES	X	
X		8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT MEMBER	X	
<u>BOLTING:</u> (AISC360) TABLE C-N5.6-1 INSPECTION TASKS PRIOR TO BOLTING				
	X	1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	
	X	2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		X
	X	3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS TO BE EXCLUDED FROM SHEAR PLANE)		X
	X	4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		X
	X	5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		X
	X	6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	X	
	X	7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		X
<u>BOLTING:</u> (AISC360) TABLE C-N5.6-2 INSPECTION TASKS DURING BOLTING				
	X	1. FASTENER ASSEMBLIES OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		X
	X	2. JOINT BROUGHT TO SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		X
	X	3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		X
	X	4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH A METHOD APPROVED BY RSCE AND PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD FREE EDGES		X
<u>BOLTING:</u> (AISC360) TABLE C-N5.6-3 INSPECTION TASKS AFTER BOLTING				
	X	1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	



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9th Main Parking Garage  
848 W. Main Street, Boise, Idaho

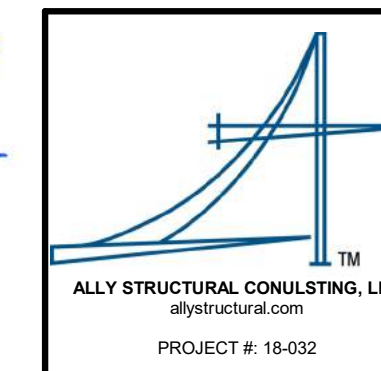
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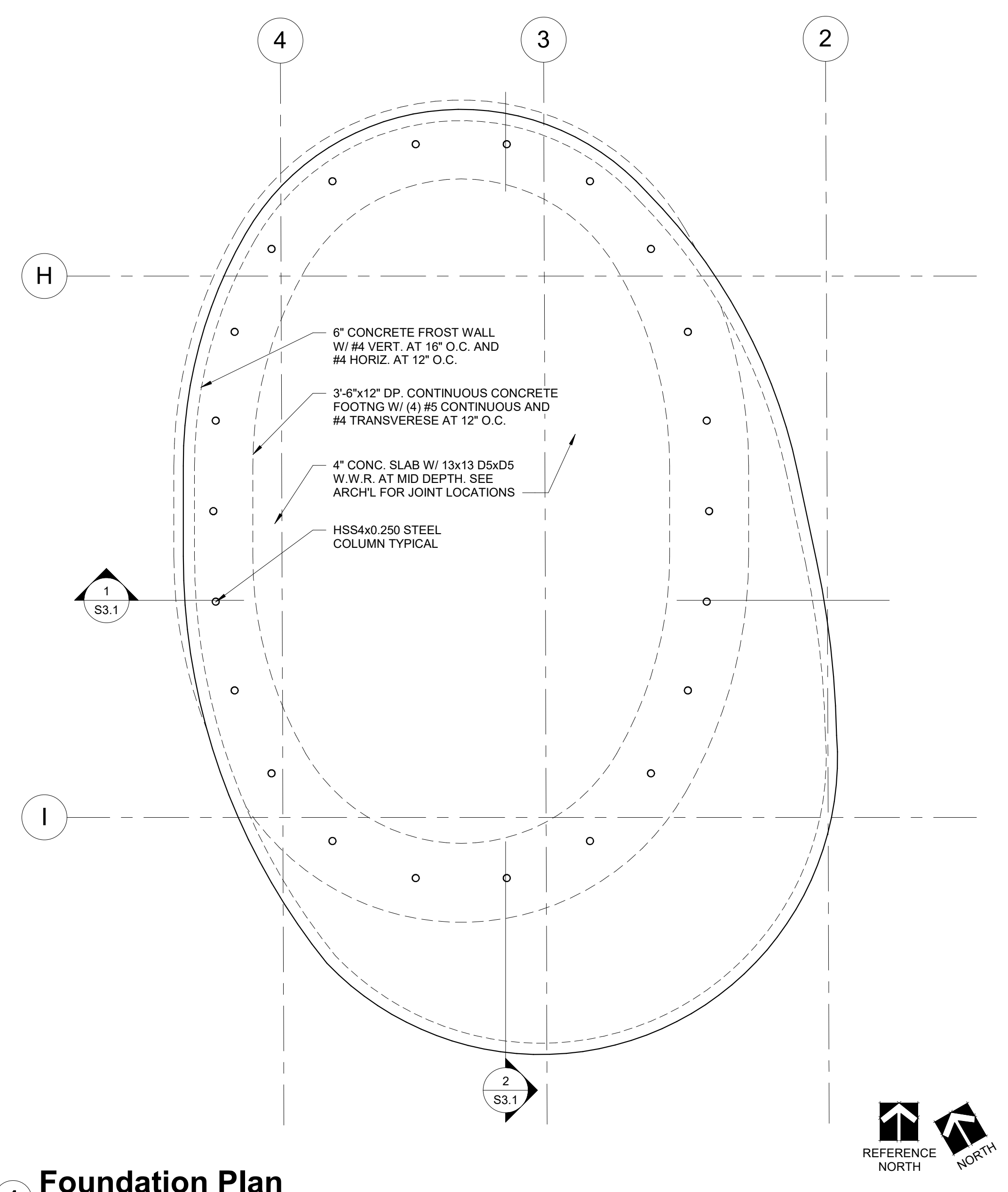
Special Inspections  
**S1.2**



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- PLAN NOTES:**
1. FOR GENERAL STRUCTURAL NOTES SEE S1.1
  2. FOR DIMENSIONS SEE A2.3
  3. GRIND ALL EXPOSED WELDING SMOOTH
  4. ALL STEEL IS 'ARCHITECTURALLY EXPOSED STRUCTURAL STEEL'



**1 Foundation Plan**  
 1/4" = 1'-0"

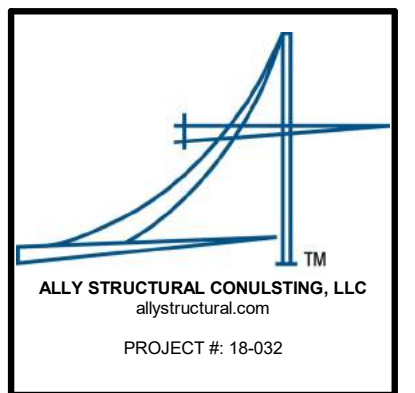
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**Foundation Plan**  
**S2.1**



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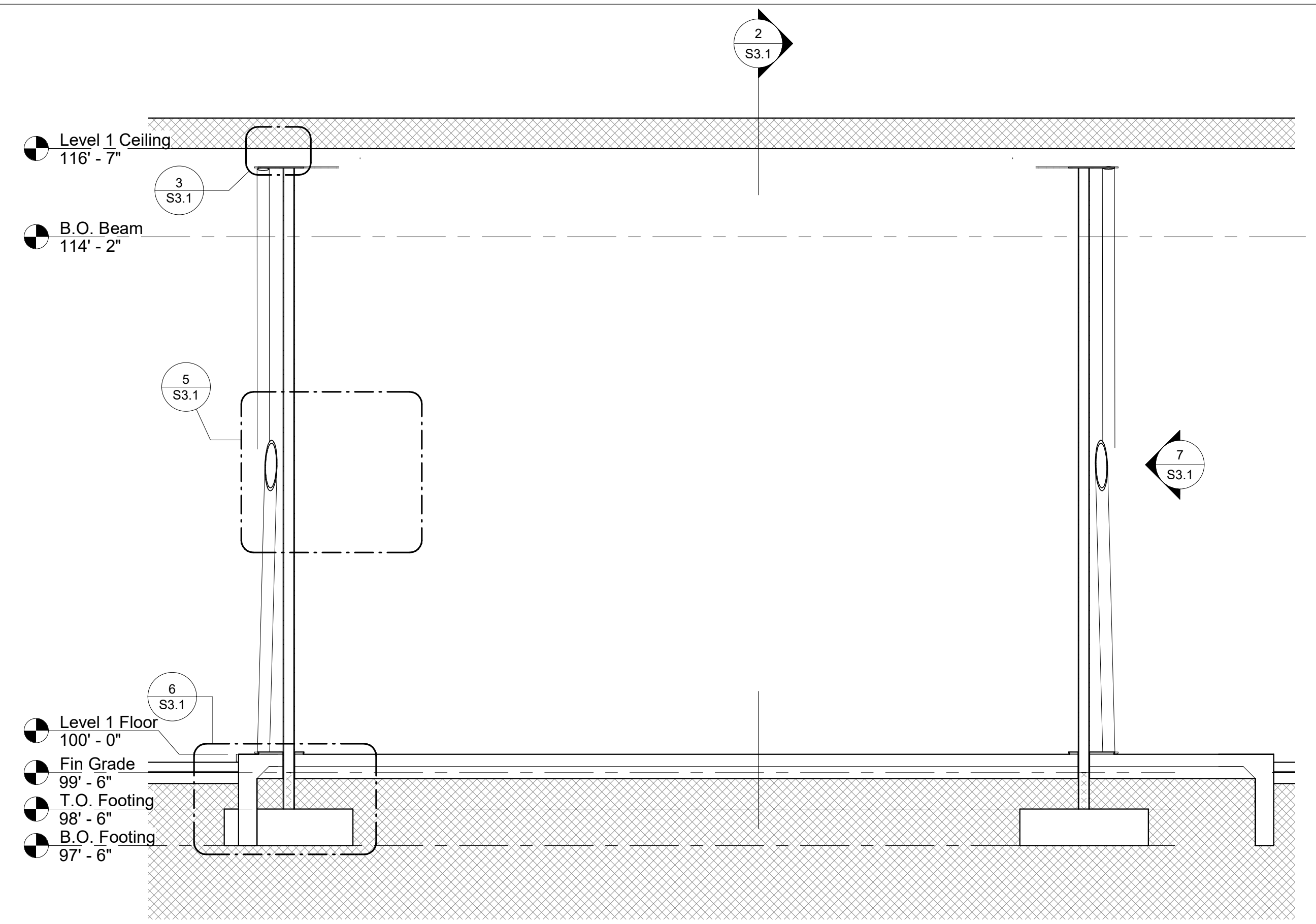
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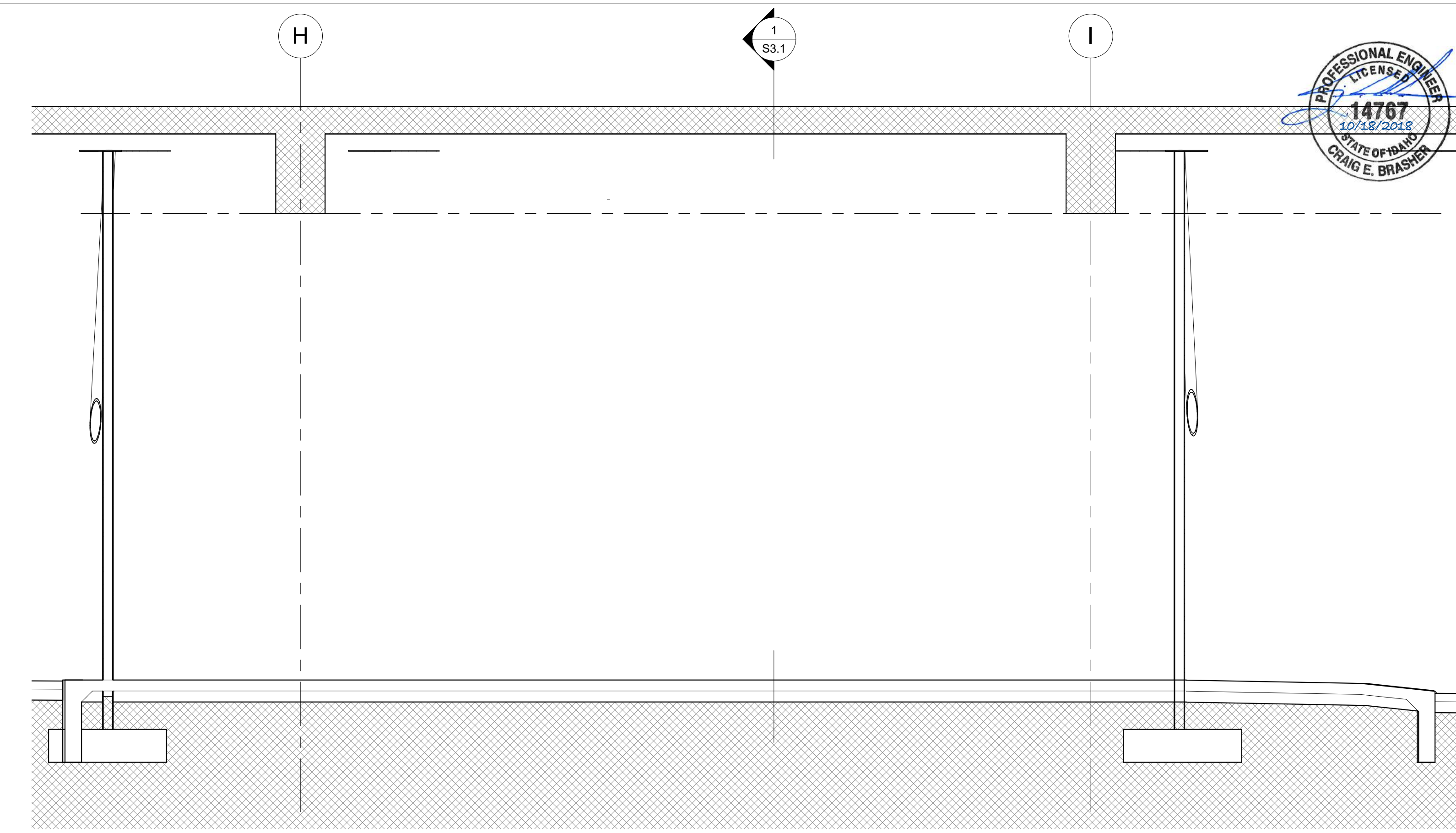
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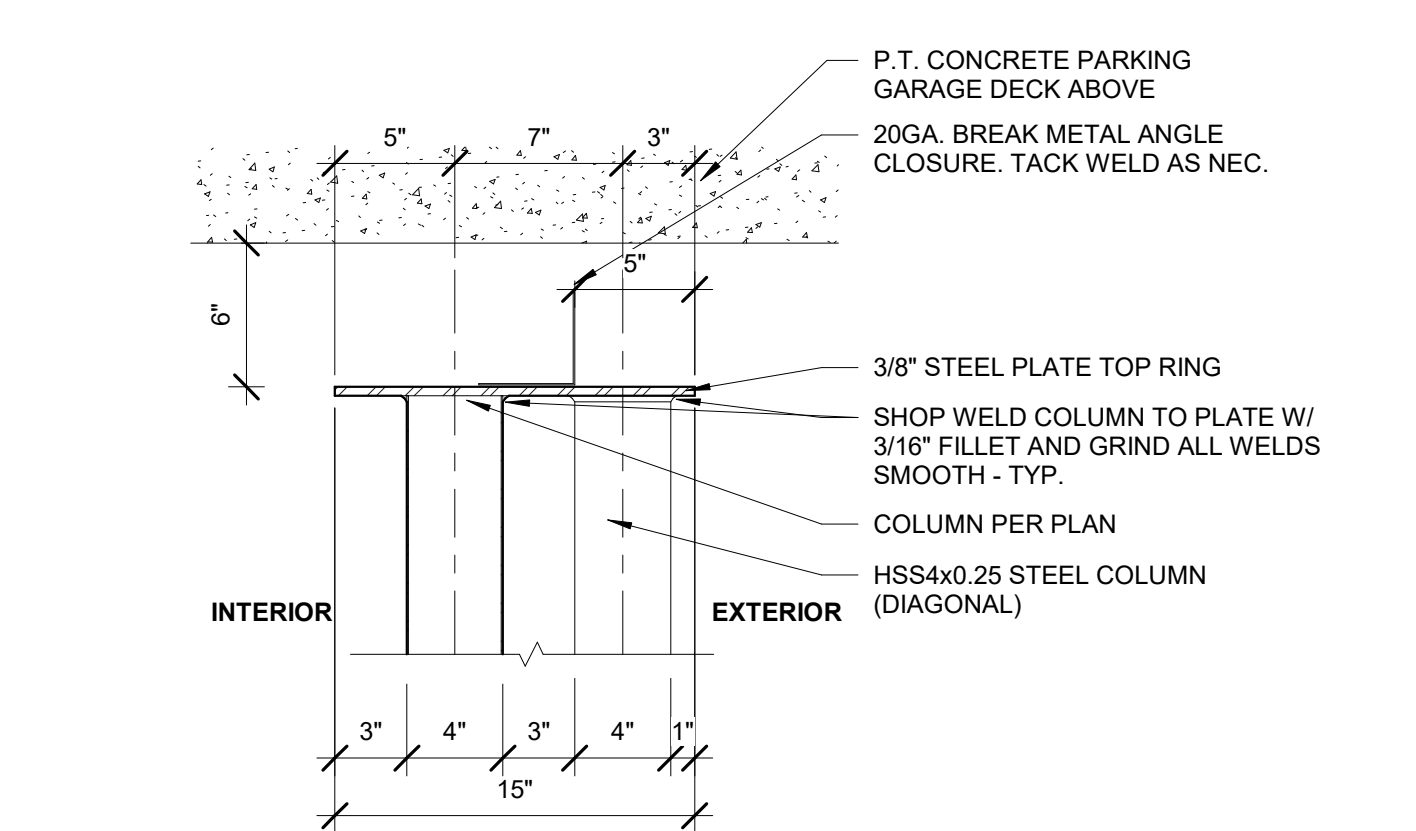
Sections & Details  
**S3.1**



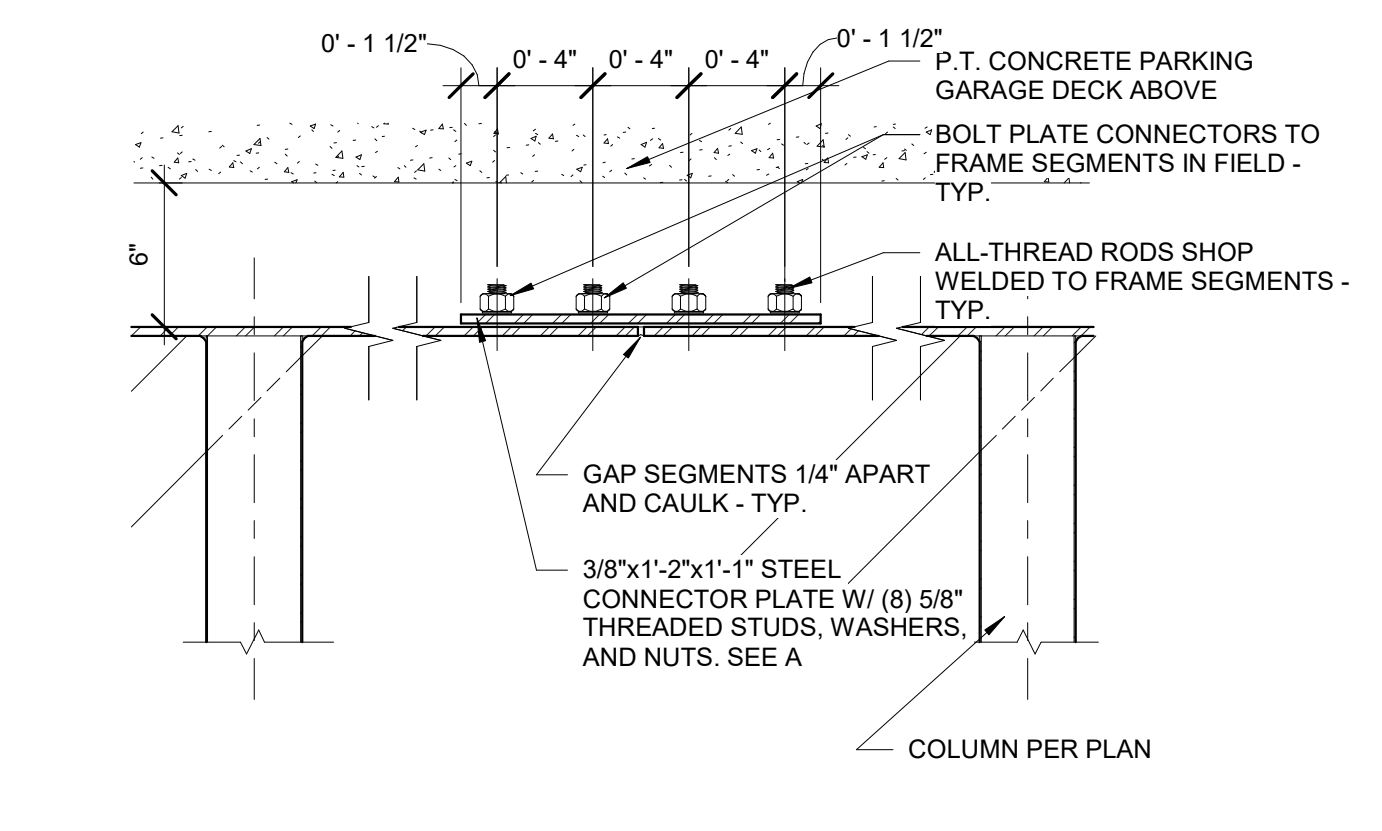
**1 East-West Section**  
 3/8" = 1'-0"



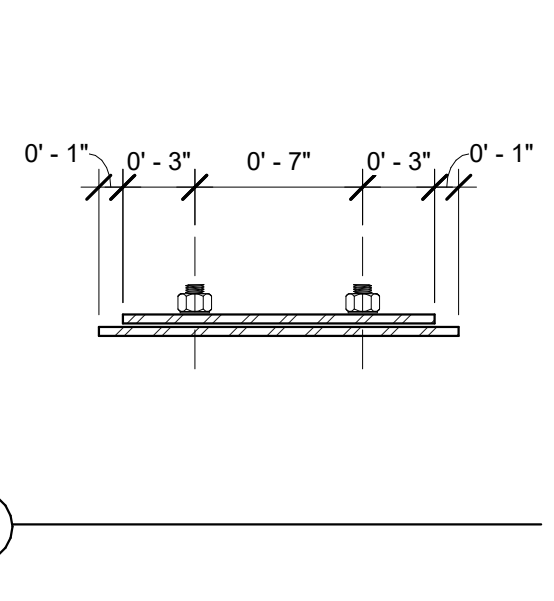
**2 North-South Section**  
 3/8" = 1'-0"



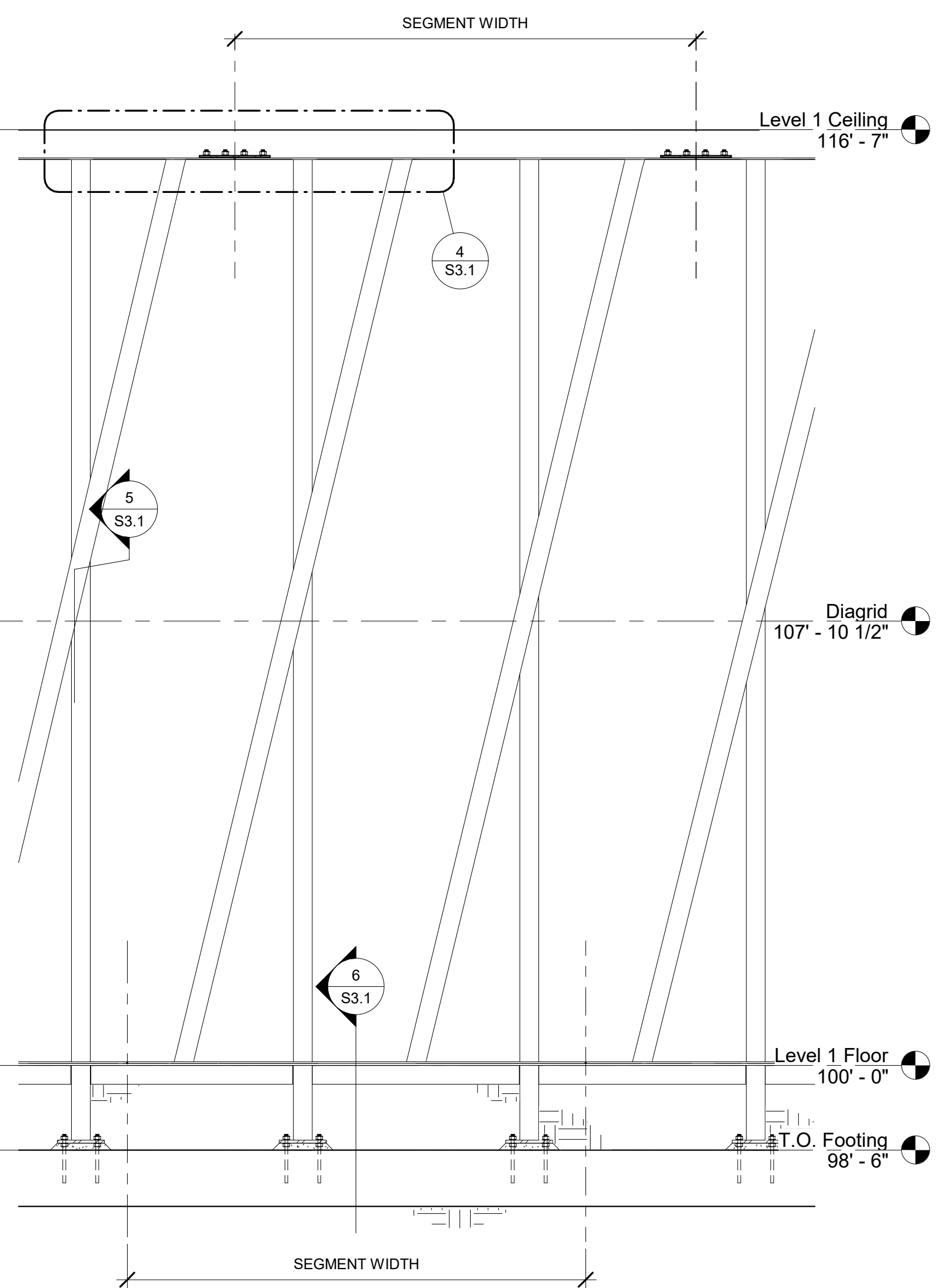
**3 Diagrid Top**  
 1 1/2" = 1'-0"



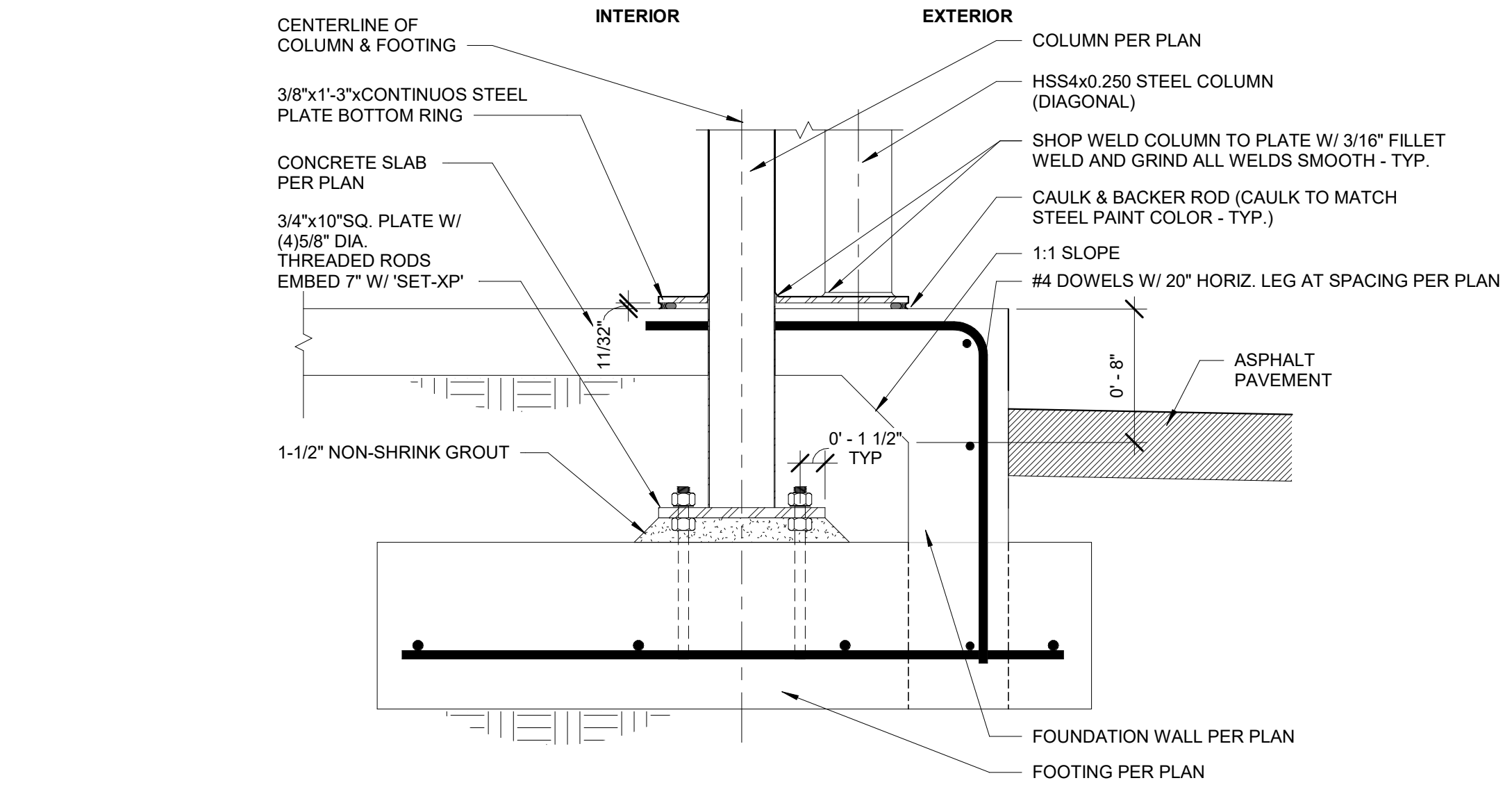
**4 Diagrid Top Plate Connection**  
 1 1/2" = 1'-0"



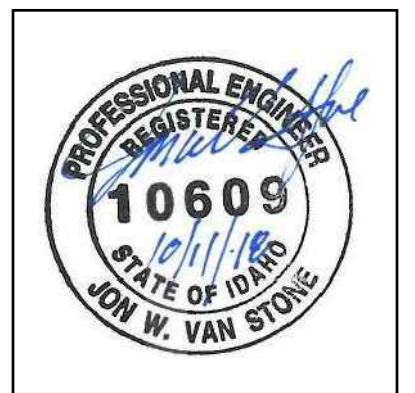
**5 Diagrid Mid-height Connection**  
 3/4" = 1'-0"



**7 Typical Diagrid Segment**  
 1/2" = 1'-0"



**6 Diagrid Base**  
 1 1/2" = 1'-0"



10609  
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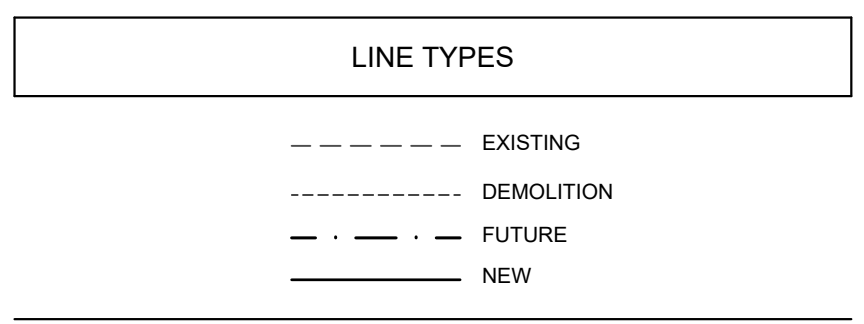
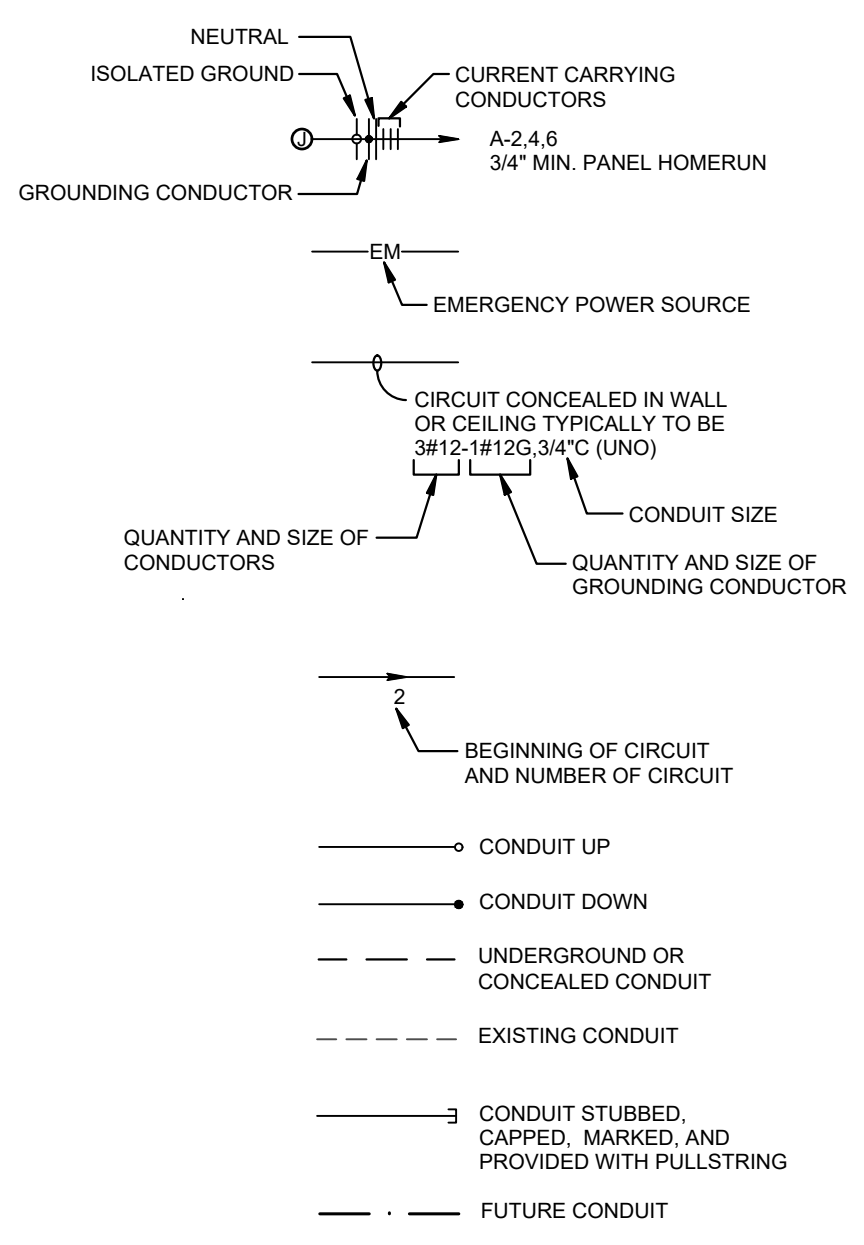
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Checked by JWVS

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ELECTRICAL SYMBOLS AND SHEET INDEX  
E0.0

### CIRCUITING SYMBOLS

see electrical specifications for further information

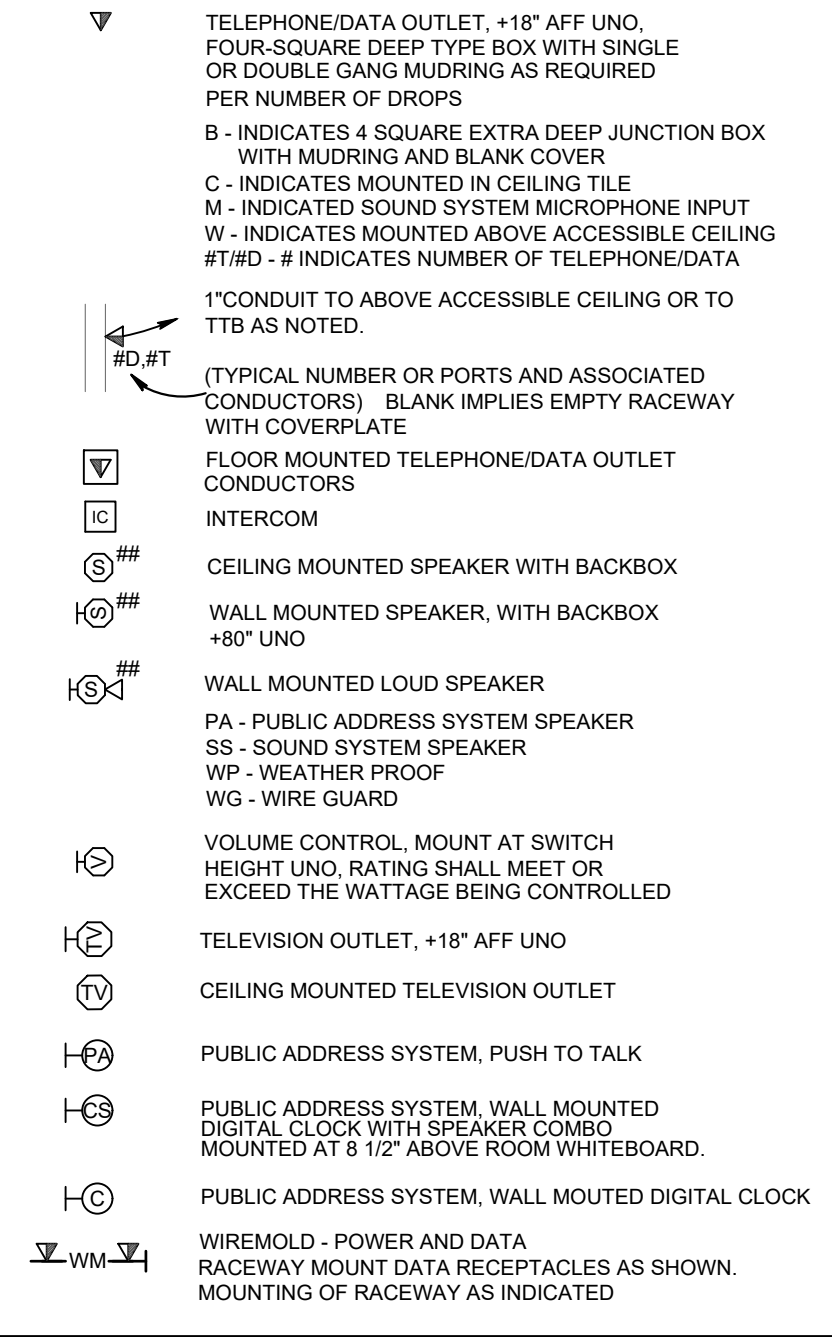


#### ELECTRICAL DRAWING SHEET INDEX

E0.0	ELECTRICAL SYMBOLS AND SHEET INDEX
E1.0	ELECTRICAL SITE PLAN
E2.0E	BIKE SHELTER PLANS
E2.0L	BIKE SHELTER LIGHTING PLAN
E3.0	ELECTRICAL SCHEDULES
E4.0	ELECTRICAL SPECIFICATIONS
E4.1	ELECTRICAL SPECIFICATIONS
E4.2	ELECTRICAL SPECIFICATIONS

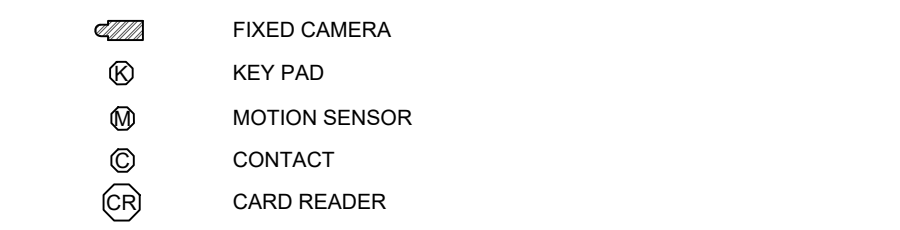
### SPECIAL SYSTEMS SYMBOLS

see electrical specifications for further information



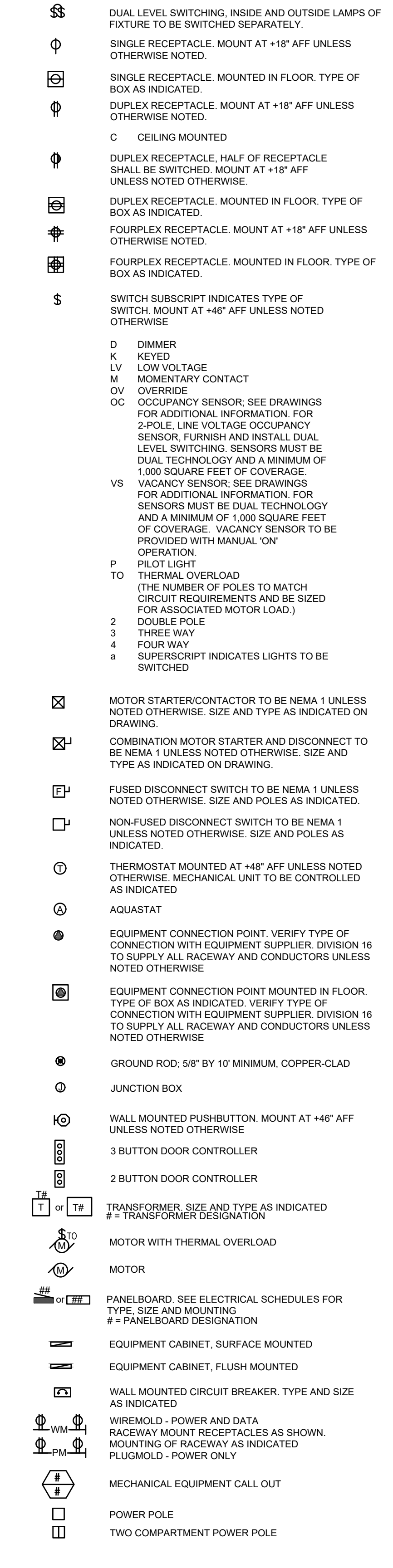
### SECURITY SYMBOLS

see electrical specifications for further information



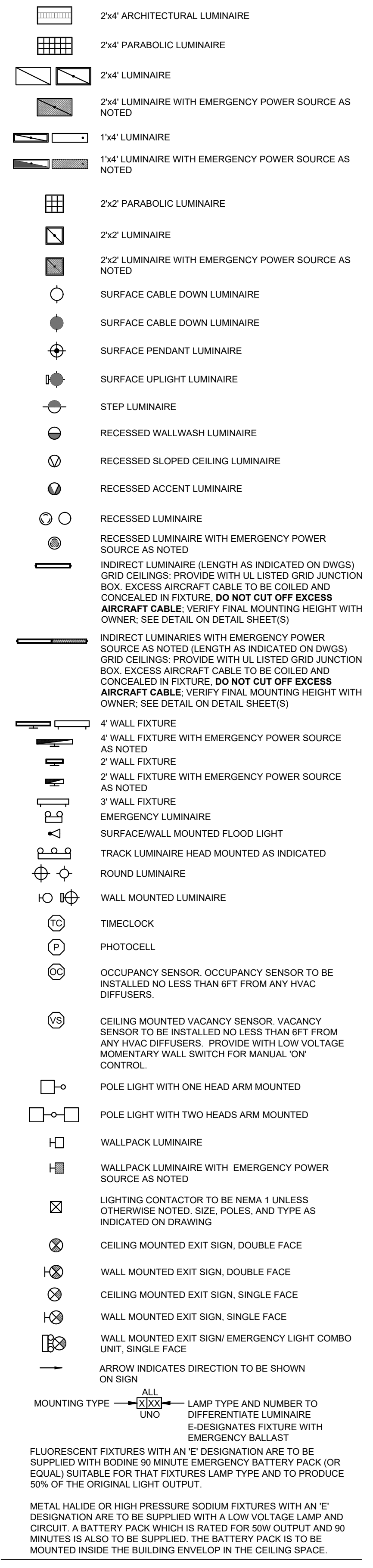
### ELECTRICAL DEVICE SYMBOLS

see electrical specifications for further information



### LIGHTING SYMBOLS

see luminaire schedule for mounting and fixture type



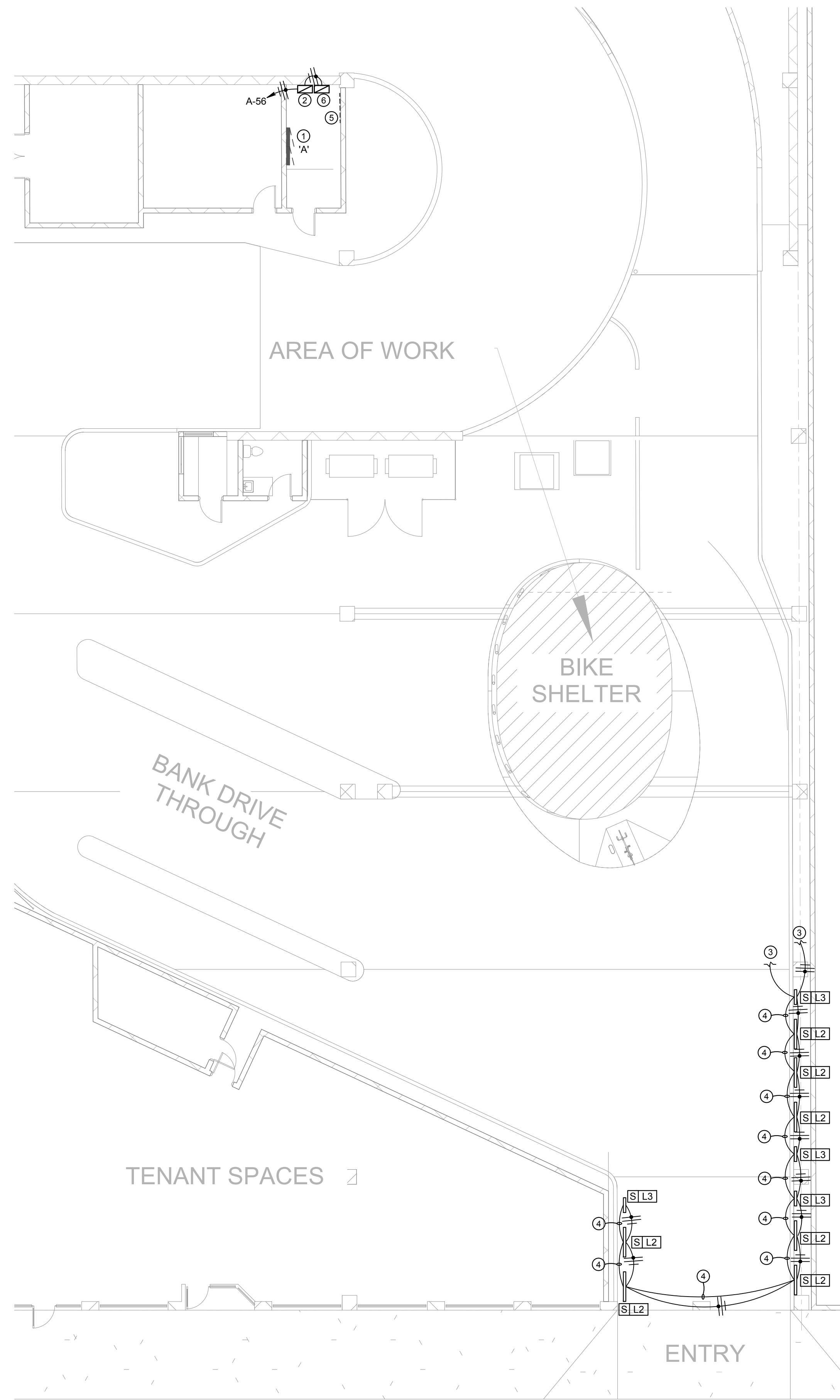
### ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
E	EMPTY/EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXG	EXISTING
F	FUSE
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G/IND	GROUND
GFI	GROUND FAULT INTERRUPTION
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
IBT	INTERSYSTEM BONDING TERMINATION
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IPCO	INDIAN POWER COMPANY
J/B	JUNCTION BOX
KA	KILOAMP
KW	KILOWATT
KWH	KILOWATT HOUR
M	MAGNETIC CONTACTOR COIL
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MH	MANHOLE
MH	METAL HALIDE
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OF/CI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
PIR	PASSIVE INFRARED
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FOOT
T	TELEPHONE
TB	TERMINAL BOARD
TBD	TO BE DETERMINED
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER
X	EXPLOSION PROOF
XFR	TRANSFER

## 1 ELECTRICAL SYMBOLS AND SHEET INDEX

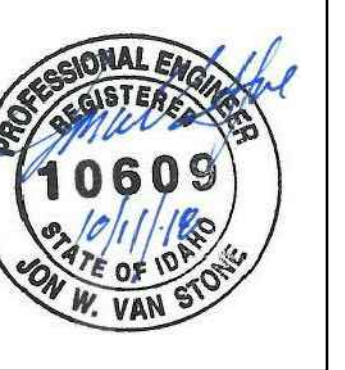
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e2co project #: 18156



**KEYED NOTES:**

- 1 EXISTING BRANCH PANEL LOCATION.
- 2 LIGHTING CONTROL PANEL LOCATION. SEE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- 3 TO LIGHT FIXTURES AT BIKE SHELTER, SEE SHEET E2.0L FOR ADDITIONAL INFORMATION.
- 4 FURNISH AND INSTALL CATSE CONDUCTOR FOR CONTROL OF LIGHT FIXTURE.
- 5 EXISTING TELEPHONE TERMINAL BOARD.
- 6 CARD ACCESS AND VIDEO HEAD END EQUIPMENT.



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 202.208.346 FAX: 202.208.346

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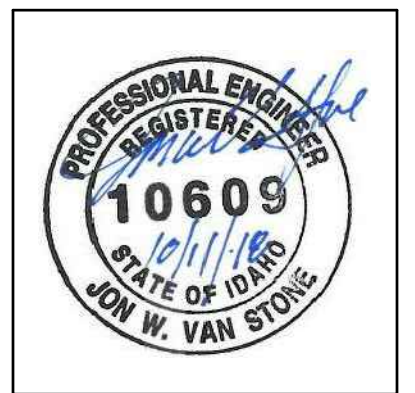
Project number  
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 Checked by JWWS

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Electrical Site Plan

**E1.0**

**1 Main Street Electrical Site Plan**  
 1" = 10'-0"  
 REFERENCE NORTH NORTH



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 220 W. 101st St., Boise, ID 83728  
 208.346.2135

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**Bike Shelter  
 Electrical Plans**

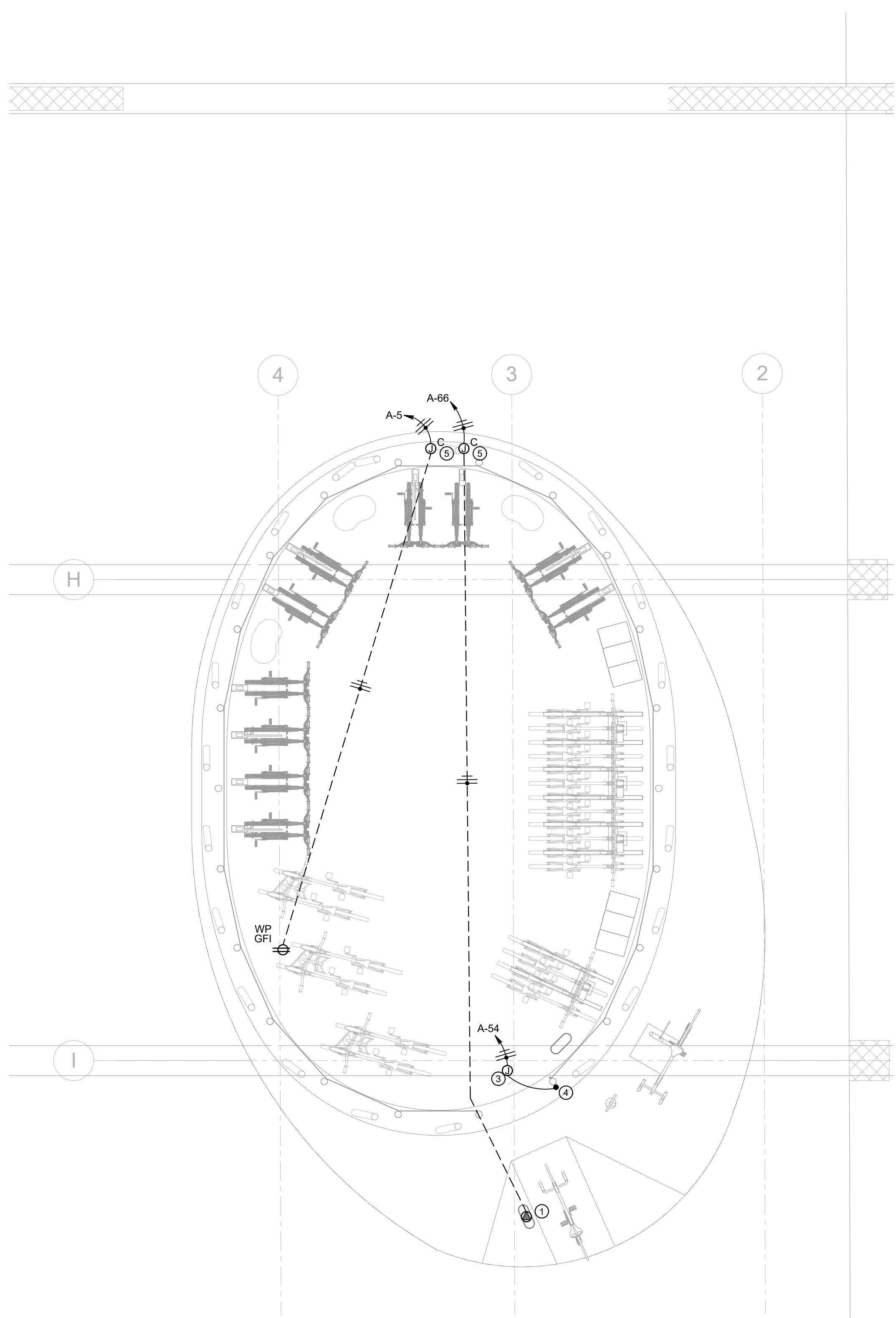
**E2.0E**

**GENERAL NOTES:**

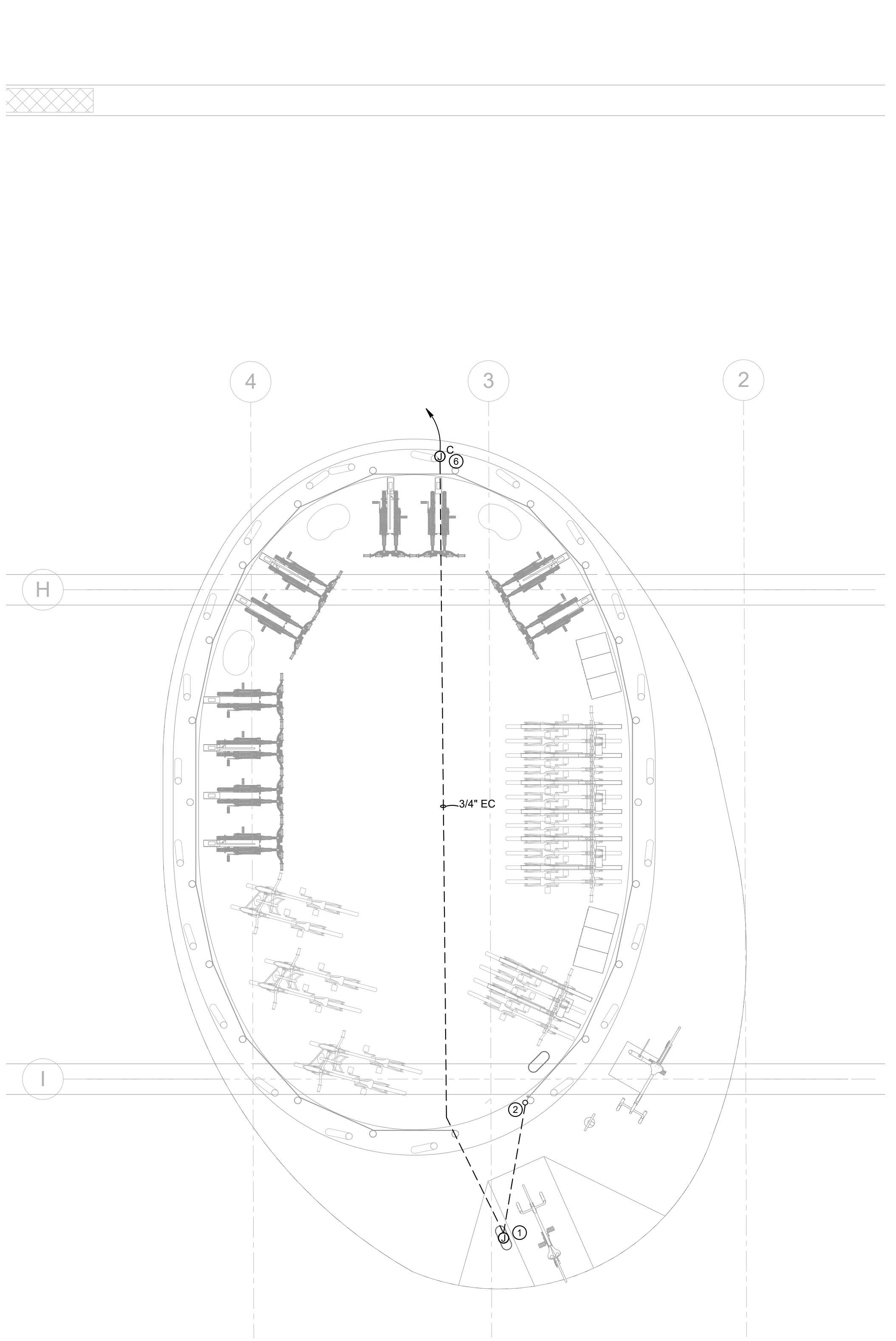
- 1 VERIFY ALL MOUNTING HEIGHTS OF ELECTRICAL CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

**KEYED NOTES:**

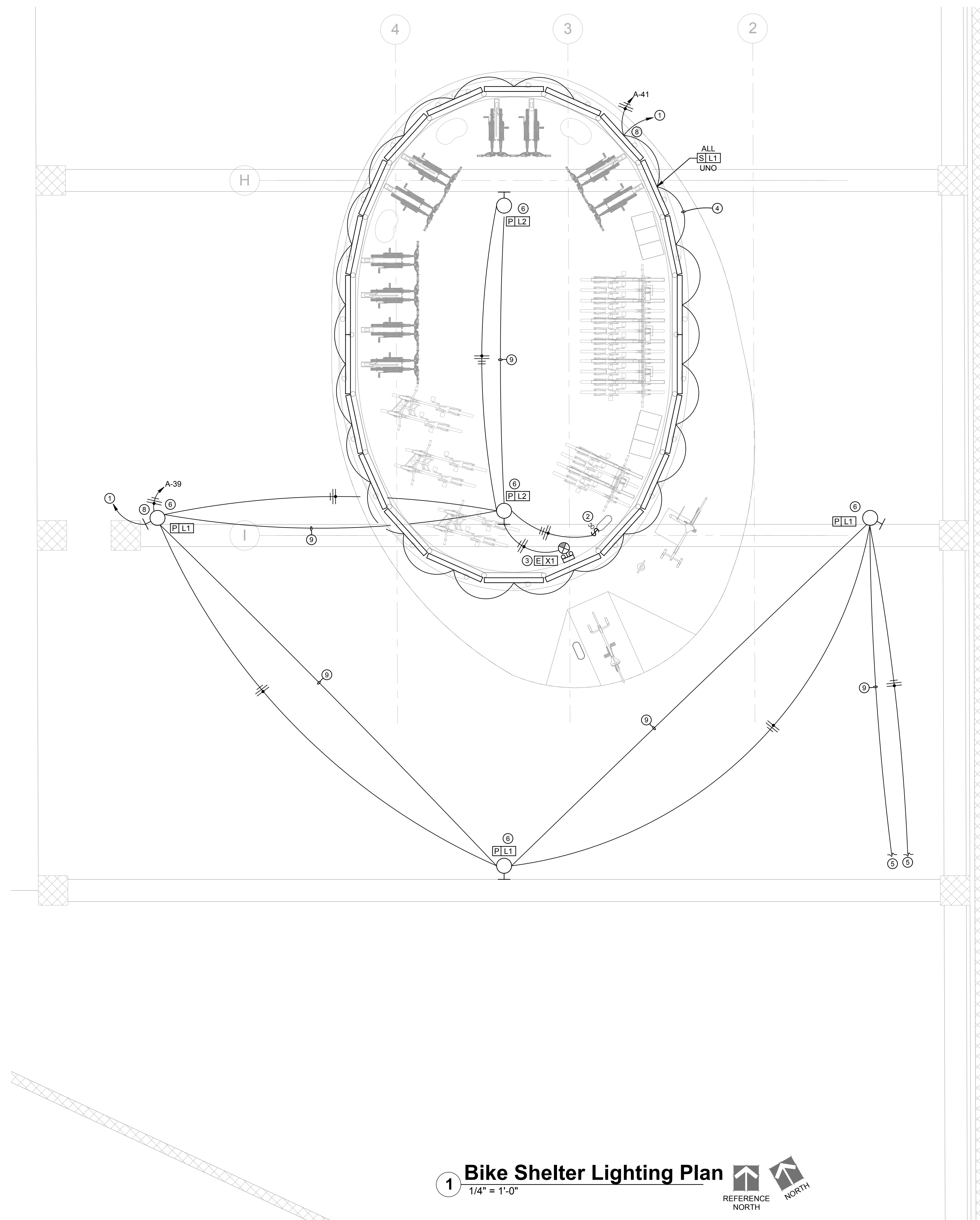
- 1 CONNECTION TO CARD READER FOR ENTRY SYSTEM. COORDINATE LOCATION AND CONNECTION TYPE WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
- 2 ROUTE (1) 3/4" CONDUIT TO DOOR FRAME FOR ROUTING OF CONTROL CONDUCTORS. UP TO DOOR CONTROLLER
- 3 CONNECTION TO DOOR CONTROLLER POWER SUPPLY. COORDINATE LOCATION AND CONNECTION TYPE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 4 ROUTE CONDUIT TO DOOR FRAME FOR CONNECTION TO ELECTRIC STRIKE.
- 5 CONDUIT TO BE CONCEALED AND ROUTED UP STRUCTURE AND TO CEILING MOUNTED JUNCTION BOX. CONDUIT TO THEN BE ROUTED SURFACE MOUNTED ALONG CEILING STRUCTURE TO PANEL 'A'. SEE SHEET E1.0 FOR ADDITIONAL INFORMATION.
- 6 CONDUIT TO BE CONCEALED AND ROUTED UP STRUCTURE AND TO CEILING MOUNTED JUNCTION BOX. CONDUIT TO THEN BE ROUTED SURFACE MOUNTED ALONG CEILING STRUCTURE TO ACCESS CONTROL AND CAMERA HEAD END EQUIPMENT. SEE SHEET E1.0 FOR ADDITIONAL INFORMATION.
- 7 RECEPTACLE TO BE MOUNTED 48" AFF. UTILIZE RIGID METAL CONDUIT FOR ELBOW EXTENDING UP THROUGH CONCRETE AND TO A SURFACE MOUNTED STYLE JUNCTION BOX. SUPPORT JUNCTION BOX WITH UNI-STRUT RACK.



**1 Bike Shelter Power Plan**  
 1/4" = 1'-0"  
 REFERENCE NORTH NORTH



**2 Bike Shelter Special Systems Plan**  
 1/4" = 1'-0"  
 REFERENCE NORTH NORTH



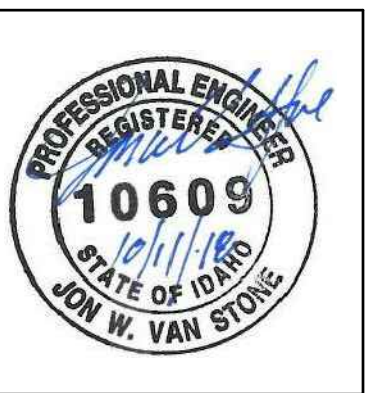
1 Bike Shelter Lighting Plan  
 1/4" = 1'-0"  
 REFERENCE NORTH NORTH

**GENERAL NOTES:**

- 1 ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK AS SPECIFIED ON THE FIXTURE SCHEDULE AND THE EMERGENCY FIXTURE SHALL BE PROVIDED WITH AN UNSWITCHED LEG THAT SHALL BE CONNECTED TO THE EMERGENCY BATTERY PACK.

**KEYED NOTES:**

- 1 FURNISH AND INSTALL (1) CAT5E CONDUCTOR TO LIGHTING CONTROL. ROUTE CONDUIT AND CONDUCTORS UP TO CEILING AND CONTINUE CONDUIT AND CONDUCTORS SURFACE MOUNTED ALONG CEILING TO THE LIGHTING CONTROLLER. SEE SHEET E1.0 FOR ADDITIONAL INFORMATION.
- 2 FURNISH AND INSTALL PASSIVE INFRARED WALL STRUCTURE OCCUPANCY SENSOR. SENSOR SHALL BE SENSOR SWITCH NO. W5X-WH, OR APPROVED EQUAL. ADJUST SENSITIVITY OF SENSOR TO PICK UP MOVEMENT ONLY IN THE AREA OF THE DOOR ENTRANCE. WALL SENSOR SHALL BE MOUNTED IN A SURFACE MOUNTED JUNCTION BOX AND MOUNTED TO THE BIKE STRUCTURE.
- 3 CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT. CARRY UNSWITCHED LEG THROUGH RACEWAY SYSTEM TO EGRESS FIXTURE FOR CONTINUOUS POWER TO BATTERY.
- 4 POWER AND CONTROL CABLE TO BE PROVIDED WITH LIGHT FIXTURE.
- 5 TO LIGHT FIXTURE, SEE SHEET E1.0 FOR ADDITIONAL INFORMATION.
- 6 LIGHT FIXTURE TO BE PENDANT MOUNTED FROM CEILING STRUCTURE.
- 7 LIGHT FIXTURES ARE TO BE MOUNTED TO THE BIKE STRUCTURE AND AIMED TOWARDS THE CEILING. COORDINATE MOUNTING OF THE LIGHT FIXTURES WITH BIKE STRUCTURE.
- 8 COORDINATE CONNECTION TO DMX CONTROL PROVIDED WITH LIGHT FIXTURE.
- 9 FURNISH AND INSTALL CAT5E CONDUCTOR FOR CONTROL OF LIGHT FIXTURE.



**GV Studio, PLLC**  
 ARCHITECTURE PLANNING DESIGN ART  
 220 W. 10TH ST., BOISE, ID 83702  
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**9th Main Parking Garage  
 BikeBOI Parking Station**  
 848 W Main Street, Boise, Idaho

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Revision		
No.	Description	Date

Project number  
 Date 10/12/18  
 Drawn by JWS  
 Checked by JWWS

Permit Submittal

Bike Shelter  
 Lighting Plan

**E2.0L**

**e2co**  
 electricalengineeringcompany  
 engineering 4 tomorrow  
 world wide web: e2co.com  
 800 s. industry way, suite 350  
 meridian, idaho 83642  
 phone: 208.378.4450  
 fax: 208.378.4451  
 e2co project #: 18156

LOAD TYPE	NOTES	NO.	DESCRIPTION	AMPS/ POLES	LOAD (VA)	WIRE SIZE	PHASE (VA)	WIRE SIZE	LOAD (VA)	AMPS/ POLES	DESCRIPTION	NO.	NOTES	LOAD TYPE	
		1	EXISTING TR	20	1	0.0	12	0	12	0.0	20	1		2	
		3	EXISTING FACP	20	1	0.0	12	0	12	0.0	20	1		4	
		5	BIKE BOI BIKE CHARGER	20	1	180	1.5	12	12	0.0	20	1		6	
		7	EXISTING EXHAUST FAN	20	1	0.0	12	0	12	0.0	20	1		8	
		9	EXISTING ELEC HEAT EMPLOYEE RESTROOM	20	1	0.0	12	0	12	0.0	20	1		10	
		11	EXISTING WATER HEATER RESTROOM	20	1	0.0	12	0	12	0.0	20	1		12	
		13	EXISTING EF STORAGE TRASH	20	1	0.0	12	0	12	0.0	20	1		14	
		15	EXISTING RECP STORAGE	20	1	0.0	12	0	12	0.0	20	1		16	
		17	EXISTING RECP STORAGE	20	1	0.0	12	0	12	0.0	20	1		18	
		19	EXISTING SIGN	20	1	0.0	12	0	12	0.0	20	1		20	
		21	EXISTING SIGN	20	1	0.0	12	0	12	0.0	20	1		22	
		23	EXISTING SIGN	20	1	0.0	12	0	12	0.0	20	1		24	
		25	EXISTING GATE	20	1	0.0	12	0	12	0.0	20	1		26	
		27	EXISTING WARNING SIGNS	20	1	0.0	12	0	12	0.0	20	1		28	
		29	EXISTING WARNING SIGNS	20	1	0.0	12	0	12	0.0	20	1		30	
<b>SECTION #2</b>															
		31	EXISTING	20	1	0.0	12	0	12	0.0	20	1		32	
		32	EXISTING ENTRY LANE	20	1	0.0	12	0	12	0.0	20	1		34	
		35	EXISTING AC ATTENDANT	50	2	0.0	8	0	6	0.0	60	3		36	
		37	EXISTING AC ATTENDANT	50	2	0.0	8	0	6	0.0	60	3		38	
		39	LTG - BIKE BOI	20	1	770	6.4	12	770	6.0	60	3		40	
		41	LTG - BIKE BOI	20	1	756	6.3	12	1290	12	4.5	540	20	1	42
		43	SPARE	60	3	0.0	8	0	6	0.0	60	3		44	
		45	**	60	3	0.0	8	0	6	0.0	60	3		46	
		47	**	60	3	0.0	8	0	6	0.0	60	3		48	
		49	SPARE	50	2	0.0	8	0	12	0.0	20	1		50	
		51	EXISTING SIGN CAR COMING	50	2	0.0	8	0	12	0.0	20	1		52	
		53	EXISTING SIGN CARD READER	20	1	0.0	12	180	600	12	5.0	600	20	1	54
		55	EXISTING CARD READER	20	1	0.0	12	180	12	1.5	180	20	1	56	
		57	EXISTING AIR COMP	50	2	0.0	8	0	12	0.0	20	1		58	
		59	**	50	2	0.0	8	0	12	0.0	20	1		61	
<b>PHASE BALANCE MIN TO MAX</b>				<b>PHASE LOADING</b>											
44,820				180 770 2078 VA											
1.30				2 6 17 AMPS											
58,150 VA															
10.0 KVA															

LOAD #	LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
1	LIGHTING	0	1.25	0
2	RECEPTACLE	180	*	180
3	MOTOR	0	**	2,500
4	KITCHEN EQUIP.	0	0.65	0
5	HVAC	0	1.00	0
6	NON-CONTINUOUS	1,320	1.00	1,320
7	ELECTRIC HEAT	0	1.25	0
8	EXISTING DEMAND	43,320	1.25	54,150
<b>TOTAL:</b>		<b>44,820</b>	<b>1.30</b>	<b>58,150</b>
<b>SIZE OF LARGEST MOTOR:</b>		<b>10.0 KVA</b>		

PANEL ELECTRICAL LOAD DATA		
TOTAL CONNECTED LOAD:	44.8	KVA
	124	AMPS
TOTAL DEMAND LOAD:	58.2	KVA
	161	AMPS

PANEL OCPD RATING	
STANDARD RATED	

DEMAND FACTOR NOTES	
*	FIRST 10,000VA AT 100%, REMAINING OVER 10,000VA AT 50%.
**	125% OF LARGEST + 100% OF REMAINING MOTORS

PANEL NOTES	
1.	PROVIDE CLASS 'A' GFCI TYPE BREAKER.
2.	BREAKER TO BE RED HANDED.
3.	INSTALL LOCK ON DEVICE ON BREAKER, (SET SCREW, NON-PAVLOCK TYPE)
4.	ROUTE CIRCUIT TO LTG. RELAY CONTACTOR FOR CONTROL.

LIGHTING FIXTURE SCHEDULE - BIKE BOI							
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	LAMPS	VOLTAGE	REMARKS
EX1	EXIT/EM LIGHT COMBO, LED, RED STENCIL DIECAST HOUSING, SINGLE OR DOUBLE FACE N-CAD BATTERY	MULE ISOLITE	MDC-U-R-B-B DCL-R-U-BK	ABOVE DOOR	WITH FIXTURE	120/277	2
PL1	10" ROUND, YOKE MOUNTED, LED, WHITE FLOOD LIGHT, HORIZONTAL SPREAD	LUMENPULSE	LBL-120-27-FL-LSLHVS-GRATXDM-SY UL	SIDE OF BEAM	LED 2700K 3271LMINS 50W	120/277	2
PL2	10" ROUND, YOKE MOUNTED, LED, WHITE FLOOD LIGHT, HORIZONTAL SPREAD	LUMENPULSE	LBL-120-27-NF-LSLHVS-GRATXDM-SY UL	SIDE OF BEAM	LED 2700K 3271LMINS 50W	120/277	2
SL1	4" LINEAR, RGB COLOR CHANGING STRIPLIGHT	LUMENPULSE	LCS2-GREY-120-DMWRDM-48-RGBHO-CL-CBX	SURFACE UPLIGHT	LED 1001LMINS 36W	120/277	2
SL2	4" LINEAR, WALLWASH	LUMENPULSE	LOGHH0-120-48-2700-WW-XUMAS-SHNO	SURFACE WALLWASH	LED 2700K 3592LMINS 61W	120/277	2
SL3	2" LINEAR, WALLWASH	LUMENPULSE	LOGHH0-120-24-2700-WW-XUMAS-SHNO	SURFACE WALLWASH	LED 2700K 3592LMINS 31W	120/277	2
LCP	DMX CONTROL PANEL WITH DIMMING, 36 CHANNEL NETWORK CAPABLE, ASTRONOMICAL TIMECLOCK	ACUCITY	FCS-7TSN-X-DBL	SURFACE	N/A	120/277	2.5

**REMARKS**

- PROVIDE DUAL BALLASTS FOR DUAL LEVEL SWITCHING
- OR PRE-BID APPROVED EQUAL
- PROVIDE WITH 12V 35W QUARTZ BAYONETTE STYLE LAMP FOR EMERGENCY LIGHTING
- PROVIDE WITH BODINE EMERGENCY BATTERY PACK SUITABLE FOR LAMP TYPE AND HALF THE LAMP LUMEN OUTPUT, PROVIDE WITH SELF TEST LIGHT AND PUSHBUTTON.
- SEE LIGHTING DRAWINGS AND LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION INCLUDING NUMBER AND TYPE OF RELAYS.
- THE ELECTRICAL CONTRACTOR SHALL INCLUDE FACTORY STARTUP AND PROGRAMMING OF THE LIGHTING CONTROL SYSTEM.
- WHEN INSTALLED IN AN INSULATED CEILING, FIXTURE TO BE INSTALLED WITH FIRE RATED OR IC RATED ENCLOSURE OR HAVE SHEET ROCK ENCLOSURE BUILT PER DETAIL.

**NOTE TO BIDDERS:**

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED VIA ADDENDUM. SUBMITTED ITEMS NOT APPROVED VIA ADDENDUM WILL BE REJECTED
- PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED
- WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO THE VARIOUS DISTRIBUTORS AND/OR CONTRACTORS AS REQUESTED.
- OSRAM, ADVANCED, UNIVERSAL, LUTRON BALLASTS ARE APPROVED. OTHERS MUST BE PRE-BID APPROVED.
- SYLVANIA, GE, PHILIPS, USHO AND VENTURE LAMPS ARE APPROVED. ALL OTHERS MUST BE PRE-BID APPROVED.
- ALL FLUORESCENT LUMINAIRE BALLASTS SHALL BE PROVIDED WITH DISCONNECTING MEANS PER NEC 410.130(f)
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE 3RD PARTY COMMISSIONING OF LIGHTING CONTROL AND HAVE THE 3RD PARTY DOCUMENT AND SIGN THE ENERGY COMPLIANCE

**COMcheck Software Version 4.1.1.0**  
**Interior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2015 IECC  
 Project Title: New Construction  
 Project Type: New Construction

**Additional Efficiency Package(s)**  
 Construction Site: Owner/Agent: Designer/Contractor: Jeff Smith  
 electrical engineering company  
 800 S Industry way  
 suite 350  
 Meridian, ID 83642  
 208-378-4450  
 jsmith@eco.com

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Parking Garage	4459	0.19	843
<b>Total Allowed Watts =</b>			<b>843</b>

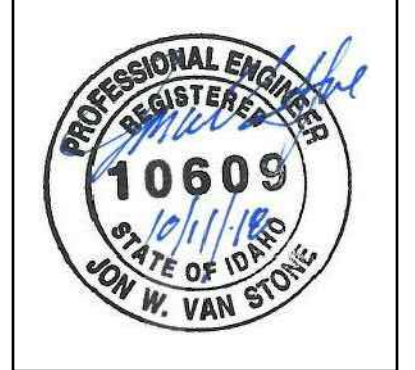
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamp/ Fixture	C # of Fixtures	D Watt. (C X D)
1-Parking Garage			
LED 1: SL1: Other:	1	22	20
LED 2: PL2: Other:	1	2	50
LED 3: PL1: Other:	1	3	50
<b>Total Proposed Watts =</b>			<b>690</b>

**Interior Lighting PASSES: Design 18% better than code**

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0, and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name: *Jeff Smith* Signature: *[Signature]* Date: *10/12/18*

Project Title: S:\Construction Admin Projects\18156 9th and Main Parking Garage\docs\18156 comcheck.cck Page 1 of 5  
 Report date: 12/12/18



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**9th Main Parking Garage**  
**BikeBOI Parking Station**  
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Revision No.	Description	Date

Project number  
 Date: 10/12/18  
 Drawn by: JWS  
 Checked by: JWVS

Permit Submittal

**ELECTRICAL SCHEDULES**

**E3.0**

**1 ELECTRICAL SCHEDULES**  
 NO SCALE

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 electricalengineeringcompany  
 engineering 4 tomorrow  
 world wide web: e2co.com  
 800 s. industry way, suite 350  
 meridian, idaho 83642  
 phone: 208-378-4450  
 fax: 208-378-4451  
 e2co project #: 18156



SECTION 16010 - ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
  - B. Provisions of this Section shall apply to all Sections of Division 16.
- 1.2 SCOPE OF WORK
- A. Furnish and install all materials and equipment and provide all labor required and necessary to complete the work shown on the drawings and/or specified in all Sections of Division 16 and all other work and miscellaneous items, not specifically mentioned, but reasonably inferred for a complete installation, including all accessories required for testing the system. It is the intent of the drawings and specifications that all systems be complete and ready for operation.

1.3 CODE COMPLIANCE

- A. All work and materials shall comply with the latest rules, codes and regulations, including, but not limited to, the following:
  1. Occupational Safety and Health Act Standards (OSHA)
  2. NFPA #70 - National Electric Code (NEC)
  3. ADA Standards - Americans with Disabilities Act
  4. ANSI/IEEE C-2 - National Electrical Safety Code
  5. NECA - Standard of Installation
  6. International Building Code
  7. International Fire Code
  8. International Energy Code
  9. NFPA #72 - Fire Code
  10. NFPA #101 - Life Safety Code
  11. All other applicable Federal, State and local laws and regulations.
- B. Work to be executed and inspected in accordance with local codes and ordinances. Permits, fees or charges for inspection or other services shall be paid for by the contractor. Local codes and ordinances are to be considered as minimum requirements and must be properly executed without expense to the owner, but do not relieve the contractor from work shown that exceeds minimum requirements.

1.4 CONDITIONS AT SITE

- A. Visit to site is required of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernible conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.
- B. Lines of other service that are damaged as a result of this work shall be promptly repaired at no expense to the owner to the complete satisfaction of the owner.

1.5 DRAWINGS AND SPECIFICATIONS

- A. All drawings and all specifications shall be considered as a whole and work of this Division shown anywhere therein shall be furnished under this Division.
- B. Drawings are diagrammatic and indicate the general arrangement of equipment and wiring. Most direct routing of conduits and wiring is not assured. Exact requirements shall be governed by architectural, structural and mechanical conditions of the job. Consult all other drawings in preparation of the bid. Extra lengths of wiring or addition of pull or junction boxes, etc., necessitated by such conditions shall be included in the bid. Check all information and report any apparent discrepancies before submitting bid.

1.6 SAFETY AND INDEMNITY

- A. Safety: The contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.
- B. No act, service, drawing review or construction review by the owner is intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.

1.7 PROJECT COMPLETION

- A. Upon completion of all work and operational checks on all systems, the contractor shall request that a final construction observation be performed.
  - B. The engineer shall compile a punch list of items to be completed or corrected. The contractor shall notify the engineer upon completion of the items.
- 1.8 GUARANTEE
- A. All work under this section shall be guaranteed in writing to be free of defective work, materials, or parts for a period of one (1) year, except lamps, which shall be guaranteed for thirty (30) days after final acceptance of the work under the contract.
  - B. Repair, revision or replacement of any and all defects, failure or inoperativeness shall be done by the contractor at no cost to the owner.

PART 2 - PRODUCTS

- 2.1 MATERIAL APPROVAL
    - A. The design, manufacturer and testing of electrical equipment and materials shall conform to or exceed latest applicable NEMA, IEEE or ANSI standards.
    - B. All materials must be new and UL listed. Materials that are not covered by UL testing standards shall be tested and approved by an independent testing laboratory or a governmental agency, which laboratory shall be acceptable to the owner and code enforcing agency.
- 2.2 SHOP DRAWINGS AND MATERIALS LIST
- A. Submit shop drawings and materials lists as specified for review. Four (4) copies of submittals shall be presented to the owner.

2.3 OPERATION AND MAINTENANCE MANUALS

- A. Submit four (4) sets of Operation and Maintenance Manuals of equipment to owner.

2.4 RECORD DRAWINGS

- A. Submit record drawings to owner.

PART 3 - EXECUTION

- 3.1 COORDINATION
  - A. Coordinate work with other trades to avoid conflict and to provide correct rough-in and connection for equipment furnished under trades that require electrical connections. Inform contractors of other trades of the required access to and clearances around electrical equipment to maintain serviceability and code compliance.
  - B. Verify equipment dimensions and requirements with provisions specified under this Section. Check actual job conditions before fabricating work. Report necessary changes in time to prevent needless work. Changes or additions subject to additional compensation, which are made without the authorization of the owner, shall be at contractor's risk and expense.

3.2 MANUFACTURER'S INSTRUCTIONS

- A. Where the specifications call for an installation to be made in accordance with manufacturer's recommendations, a copy of such recommendations shall at all times be kept in the job superintendent's office and shall be available to the owner.
- B. Follow manufacturer's instructions where they cover points not specifically indicated on drawings and specifications. If they are in conflict with the drawings and specifications obtain clarification from the owner before starting work.

3.3 QUALITY ASSURANCE

- A. The contractor shall insure that all workmanship, all materials employed, all required equipment and the manner and method of installation conforms to accepted construction and engineering practices, and that each piece of equipment is in satisfactory working condition to satisfactorily perform its functional operation.
- B. Provide quality assurance tests and operational check on all components of the electrical distribution system, all lighting fixtures, and special systems.

3.4 CUTTING AND PATCHING

- A. Perform all cutting and fittings required for work of this section in rough construction of the building.
- B. All patching of finished construction of building shall be performed under the sections of specifications covering these materials.
- C. No joists, beams, girders or columns shall be cut by any contractor without obtaining written permission from the owner.

END OF SECTION 16010

SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 COORDINATION

- A. Coordinate arrangement, mounting, and support of electrical equipment:
  1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
  2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
  3. To allow right of way for piping and conduit installed at required slope.
  4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
  1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include manufacturers specified.

PART 3 - EXECUTION

3.1 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

- A. Comply with NECA 1.
- B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.
- C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.
- D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations.
  - Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.
- E. Right of Way: Give to raceways and piping systems installed at a required slope.
- F. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Install sleeves and seal raceway and cable penetration sleeves with firestop materials.
- G. Roof-Penetration Sleeves: Seal penetration of individual raceways and cables with flexible boot-type flashing units applied in coordination with roofing work.

3.2 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

3.3 FIELD QUALITY CONTROL

- A. Inspect installed sleeve and sleeve-seal installations and associated firestopping for damage and faulty work.

END OF SECTION 16050

SECTION 16060 - GROUNDING AND BONDING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- 1. This Section includes methods and materials for grounding systems and equipment.
- 1.3 QUALITY ASSURANCE
  - A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
  - B. Comply with UL 467 for grounding and bonding materials and equipment.

PART 2 - PRODUCTS

2.1 CONDUCTORS

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
  1. Solid Conductors: ASTM B 3.
  2. Stranded Conductors: ASTM B 8.
- 3. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch in diameter.
- 4. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
- 5. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches wide and 1/16 inch thick.

2.2 CONNECTORS

- A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.
- B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.
  1. Pipe Connectors: Clamp type, sized for pipe.
  - C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.3 GROUNDING ELECTRODES

- A. Ground Rods: Copper-clad steel; 5/8 by 120 inches in diameter.

PART 3 - EXECUTION

3.1 APPLICATIONS

- A. Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger, unless otherwise indicated.
- B. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
  1. Install bus on insulated spacers 1 inch, minimum, from wall 6 inches above finished floor, unless otherwise indicated.
  2. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, down to specified height above floor; and connect to horizontal bus.
- C. Conductor Terminations and Connections:
  1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
  2. Underground Connections: Welded connectors, except at test wells and as otherwise indicated.
  3. Connections to Ground Rods at Test Wells: Bolted connectors.
  4. Connections to Structural Steel: Welded connectors.

3.2 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with all feeders and branch circuits.
- B. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
  1. Feeders and branch circuits.
  2. Lighting circuits.
  3. Receptacle circuits.
  4. Single-phase motor and appliance branch circuits.
  5. Three-phase motor and appliance branch circuits.
  6. Flexible raceway runs.
  7. Armored and metal-clad cable runs.
  8. Computer and Rack-Mounted Electronic Equipment Circuits: Install insulated equipment grounding conductor in branch-circuit runs from equipment-area power panels and power-distribution units.

3.3 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
  1. Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
  2. Set top of test well flush with finished grade or floor.
  - D. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.
    1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
    2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
    3. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.

- B. Ground Rods: Drive rods until tops are 24 inches (50 mm) below finished floor or final grade, unless otherwise indicated on drawings.
  1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
  2. For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
  - C. Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.

- E. Grounding and Bonding for Piping:
  - F. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
- Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

- Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
- Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
- Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.
- Grounding and Bonding for Piping:
  - Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
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- Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.
- Grounding and Bonding for Piping:
  - Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
- Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

- Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
- Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
- Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.
- Grounding and Bonding for Piping:
  - Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
- Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

- Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
- Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
- Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.
- Grounding and Bonding for Piping:
  - Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
- Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

- Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
- Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
- Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.
- Grounding and Bonding for Piping:
  - Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
- Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

- Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
- Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
- Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connector is required, use a bolted clamp.
- Grounding and Bonding for Piping:
  - Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners.

- Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
- For grounding electrode system, install at least three rods spaced at least one rod-length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- Test Wells: Ground rod driven through drilled hole in bottom of handhole and shall be at least 12 inches (300 mm) deep, with cover. See drawings for additional information.
- Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance.
- Set top of test well flush with finished grade or floor.
- Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

SECTION 16072 - ELECTRICAL SUPPORTS AND SEISMIC RESTRAINTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
  1. Hangers and supports for electrical equipment and systems.
  2. Seismic restraints for electrical equipment and systems.
  3. Construction requirements for concrete bases.

1.3 DEFINITIONS

- A. EMI: Electrical metallic tubing.
- B. IMC: Intermediate metal conduit.
- C. NBC: National Building Code.
- D. OSHPD: Office of Statewide Health Planning and Development.
- E. RMC: Rigid metal conduit.
- F. SBC: Standard Building Code.
- G. Seismic Restraint: A structural support element such as a metal framing member, a cable, an anchor bolt or stud, a fastening device, or an assembly of these items used to transmit seismic forces from an item of equipment or system to building structure and to limit movement of item during a seismic event.

1.4 SUBMITTALS

- A. Product Data: Illustrate and indicate style, material, strength, fastening provision, and finish for each type and size of electrical support component.
  - B. Coordination Drawings: Show coordination of seismic bracing for electrical components with other systems and equipment in the vicinity, including other supports and seismic restraints.

1.5 QUALITY ASSURANCE

- A. Support systems shall be adequate for weight of equipment including associated conduit and conducts.
- B. Comply with seismic-restraint requirements in the UBC unless requirements in this Section are more stringent.

PART 2 - PRODUCTS

2.1 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

- A. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed under this Project, with a minimum structural safety factor of five times the applied force.
- B. Steel Slotted Support Systems: Comply with MFMA-3, factory-fabricated components for field assembly.
  1. Approved Manufacturers:
    - a. Cooper B-Line, a division of Cooper Industries.
    - b. ERICO International Corporation.
    - c. Allied Support Systems; Power-Strut Unit.
    - d. GS Metals Corp.
    - e. Michigan Hanger Co., Inc.; O-Strut Div.
    - f. National Pipe Hanger Corp.
    - g. Thomas & Betts Corporation.
    - h. Unistrut; Tyco International, Ltd.
    - i. Wescon, Inc.
  2. Finishes:
    - a. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-3.
    - b. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-3.
    - c. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-3.
  3. Channel Dimensions: Selected for structural loading.

- C. Nonmetallic Slotted Support Systems: Structural-grade, factory-formed, glass-fiber-resin channels and angles with 9/16-inch (14-mm-) diameter holes at a maximum of 8 inches (200 mm) o.c., in at least 1 surface.
  1. Approved Manufacturers:
    - a. Allied Support Systems; Aickinstrut Unit.
    - b. Cooper B-Line; a division of Cooper Industries.
    - c. Fabco Plastics Wholesale Limited.
    - d. Seassaf, Inc.
  2. Fittings and Accessories: Products of channel and angle manufacturer and designed for use with those items.
  3. Fitting and Accessory Materials: Same as channels and angles, except metal items may be stainless steel.
  4. Rated Strength: Selected to suit structural loading.

- D. Raceway and Cable Supports: As described in NECA 1.
- E. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
- F. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.

- G. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.
- H. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
  1. Powder-Actuated Fasteners are not allowed.
  2. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
    - a. Approved Manufacturers:
      - 1) Cooper B-Line; a division of Cooper Industries.
      - 2) Empire Tool and Manufacturing Co., Inc.
      - 3) Hilti, Inc.
      - 4) ITW Construction Products.
      - 5) MKT Fastening, LLC.
      - 6) Powers Fasteners.
    3. Concrete Inserts: Steel or malleable-iron slotted-support-system units similar to MSS Type 18; complying with MFMA-3 or MSS SP-58.

- I. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
- 5. Through Bolts: Structural type, hex head, high strength. Comply with ASTM A 325.
- 6. Toggle Bolts: All-steel springhead type.
- 7. Hanger Rods: Threaded steel.

- Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
- Through Bolts: Structural type, hex head, high strength. Comply with ASTM A 325.
- Toggle Bolts: All-steel springhead type.
- Hanger Rods: Threaded steel.

- Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
- Through Bolts

2.2 SEISMIC-RESTRAINT COMPONENTS  
A. Rated Strength, Features, and Application Requirements for Restraint Components:  
As defined in reports by an agency acceptable to authorities having jurisdiction.  
1. Structural Safety Factor: Strength in tension, shear, and pullout force of components used shall be at least five times the maximum seismic forces to which they will be subjected.  
B. Angle and Channel-Type Brace Assemblies: Steel angles or steel slotted-support-system components; with accessories for attachment to braced component at one end and to building structure at the other end.  
C. Cable Restraints: ASTM A 603, zinc-coated, steel wire rope attached to steel or stainless-steel thimbles, brackets, swivels, and bolts designed for restraining cable service.  
1. Approved Manufacturers:  
a. Amber/Booth Company, Inc.  
b. Loos & Co., Inc.  
c. Mason Industries, Inc.  
2. Seismic Mountings, Anchors, and Attachments: Devices as specified in Part 2 "Support, Anchorage, and Attachment Components" Article, selected to resist seismic forces.  
3. Hanger Rod Stiffener: Steel tube or steel slotted-support-system sleeve with internally bolted connections to hanger rod, of design recognized by an agency acceptable to authorities having jurisdiction.  
4. Bushings for Floor-Mounted Equipment Anchors: Neoprene units designed for seismically rated rigid equipment mountings, and matched to type and size of anchor bolts and studs used.  
5. Bushing Assemblies for Wall-Mounted Equipment Anchorage: Assemblies of neoprene elements and steel sleeves designed for seismically rated rigid equipment mountings, and matched to type and size of attachment devices used.  
2.3 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES  
A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.  
B. Materials: Comply with requirements in Division 5 Section "Metal Fabrications" for steel shapes and plates.  
PART 3 - EXECUTION  
3.1 APPLICATION  
A. Comply with NECA 1 for application of hangers and supports for electrical equipment and systems, except if requirements in this Section are stricter.  
B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as required by NFPA 70. Minimum rod size shall be 1/4 inch (6 mm) in diameter.  
C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted or other support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.  
1. Secure raceways and cables to trapeze member with clamps approved for application by an agency acceptable to authorities having jurisdiction.  
2. Secure raceways and cables to these supports with two-bolt conduit clamps.  
D. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2-inch (38-mm) and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.  
3.2 SUPPORT INSTALLATION  
A. Comply with NECA 1 for installation requirements, except as specified in this Article.  
B. Raceway Support Methods: In addition to methods described in NECA 1, EMT may be supported by openings through structure members, as permitted in NFPA 70.  
C. Install seismic-restraint components using methods approved by the evaluation service providing required submittals for component.  
D. Strength of Support and Seismic-Restraint Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static and seismic loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb (90 kg).  
E. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:  
1. To Wood: Fasten with lag screws or through bolts.  
2. To New Concrete: Bolt to concrete inserts.  
3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.  
4. To Existing Concrete: Expansion anchor fasteners.  
5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches (100 mm) thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches (100 mm) thick.  
6. To Steel: Welded threaded studs complying with AWS D1.1/D1.1M, with lock washers and nuts.  
7. To Light Steel: Sheet metal screws.  
8. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate by means that meet seismic-restraint strength and anchorage requirements.  
F. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.  
3.3 INSTALLATION OF FABRICATED METAL SUPPORTS  
A. Comply with installation requirements in Division 5 Section "Metal Fabrications" for site-fabricated metal supports.  
B. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.  
C. Field Welding: Comply with AWS D1.1/D1.1M.  
3.4 INSTALLATION OF SEISMIC-RESTRAINT COMPONENTS  
A. Install bushing assemblies for anchor bolts for floor-mounted equipment, arranged to provide resilient media between anchor bolt and mounting hole in concrete base.  
B. Install bushing assemblies for mounting bolts for wall-mounted equipment, arranged to provide resilient media where equipment or equipment-mounting channels are attached to wall.  
C. Restraint Cables: Provide slack within maximums recommended by manufacturer.  
D. Attachment to Structure: If specific attachment is not indicated, anchor bracing to structure at flanges of beams, upper truss chords of bar joists, or at concrete members.  
3.5 ACCOMMODATION OF DIFFERENTIAL SEISMIC MOTION  
A. Make flexible connections in runs of raceways, cables, wireways, cable trays, and busways where they cross expansion and seismic-control joints, where adjacent sections or branches are supported by different structural elements, and where they terminate with connection to electrical equipment that is anchored to a different structural element from the one supporting them as they approach equipment.  
END OF SECTION 16072

SECTION 16075 - ELECTRICAL IDENTIFICATION  
PART 1 - GENERAL  
1.1 RELATED DOCUMENTS  
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.  
1.2 QUALITY ASSURANCE  
A. Comply with ANSI A13.1 and ANSI C2.  
B. Comply with NFPA 70.  
C. Comply with 29 CFR 1910.145.  
1.3 COORDINATION  
A. Coordinate identification names, abbreviations, colors, and other features with requirements in the Contract Documents, Shop Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual, and with those required by codes, standards, and 29 CFR 1910.145. Use consistent designations throughout Project.  
B. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.  
C. Coordinate installation of identifying devices with location of access panels and doors.  
D. Install identifying devices before installing acoustical ceilings and similar concealment.  
PART 2 - PRODUCTS  
2.1 RACEWAY AND METAL-CLAD CABLE IDENTIFICATION MATERIALS  
A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.  
2.2 CONDUCTOR AND COMMUNICATION- AND CONTROL-CABLE IDENTIFICATION MATERIALS  
A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils thick by 1 to 2 inches wide.  
B. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.  
C. Aluminum Wraparound Marker Labels: Cut from 0.014-inch-thick aluminum sheet, with stamped, embossed, or scribed legend, and fitted with tabs and matching slots for permanently securing around wire or cable jacket or around groups of conductors.  
D. Metal Tags: Brass or aluminum, 2 by 2 by 0.05 inch, with stamped legend, punched for use with self-locking nylon tie fastener.  
E. Write-On Tags: Polyester tag, 0.015 inch thick, with corrosion-resistant grommet and polyester or nylon tie for attachment to conductor or cable.  
1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.  
2.3 WARNING LABELS AND SIGNS  
A. Comply with NFPA 70 and 29 CFR 1910.145.  
B. Self-Adhesive Warning Labels: Factory printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment, unless otherwise indicated.  
C. Warning label and sign shall include, but are not limited to, the following legends:  
1. Multiple Power Source Warning: "DANGER - ELECTRICAL SHOCK HAZARD - EQUIPMENT HAS MULTIPLE POWER SOURCES."  
2. Workspace Clearance Warning: "WARNING - OSHA REGULATION - AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36 INCHES."  
2.4 EQUIPMENT IDENTIFICATION LABELS  
A. Self-Adhesive, Engraved, Laminated Acrylic or Melamine Label: Adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch.  
PART 3 - EXECUTION  
3.1 APPLICATION  
A. Accessible Raceways and Metal-Clad Cables, 600 V or Less, for Service, Feeder, and Branch Circuits More Than 30 A:  
1. Identify with orange self-adhesive vinyl label, snap-around label, or self-adhesive vinyl tape applied in bands.  
B. Power-Circuit Conductor Identification: For primary and secondary conductors No. 1/0 AWG and larger in vaults, pull and junction boxes, manholes, and handholes use color-coding conductor tape, marker tape, aluminum wraparound marker labels, metal tags, or write-on tags. Identify source and circuit number of each set of conductors. For single conductor cables, identify phase in addition to the above.  
C. Branch-Circuit Conductor Identification: Where there are conductors for more than three branch circuits in same junction or pull box, use color-coding conductor tape, marker tape, aluminum wraparound marker labels, metal tags, or write-on tags. Identify each ungrounded conductor according to source and circuit number.  
D. Warning Labels for Indoor Cabinets, Boxes, and Enclosures for Power and Lighting: Comply with 29 CFR 1910.145 and apply self-adhesive warning labels, baked-enamel warning signs, or metal-backed, butyrate warning signs. Identify system voltage with black letters on an orange background. Apply to exterior of door, cover, or other access.  
1. Equipment Requiring Workspace Clearance According to NFPA 70: Unless otherwise indicated, apply to door or cover of equipment but not on flush panelboards and similar equipment in finished spaces.  
E. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and Operation and Maintenance Manual. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.  
1. Labeling Instructions:  
a. Indoor Equipment: Self-adhesive, engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2-inch-high letters on 1-1/2-inch-high label, where 2 lines of text are required, use labels 2 inches high.  
2. Equipment to Be Labeled:  
a. Panelboards, electrical cabinets, and enclosures.  
b. Disconnect switches.  
c. Voice and data cable terminal equipment.  
d. Terminals, racks, and patch panels for voice and data communication and for signal and control functions.  
3.2 INSTALLATION  
A. Verify identity of each item before installing identification products.  
B. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.  
C. Color-Coding for Phase and Voltage Level Identification, 600 V and Less: Use the colors listed below for ungrounded service, feeder, and branch-circuit conductors.  
1. Color shall be factory applied or, for sizes larger than No. 10 AWG if authorities having jurisdiction permit, field applied.  
2. Colors for 208Y/120-V Circuits:  
a. Phase A: Black.  
b. Phase B: Red.  
c. Phase C: Blue.  
3. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.  
END OF SECTION 16075

SECTION 16120 - CONDUCTORS AND CABLES  
PART 1 - GENERAL  
1.1 RELATED DOCUMENTS  
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.  
1.2 SUMMARY  
A. This Section includes building wires and cables and associated connectors, splices, and terminations for wiring systems rated 600 V and less.  
1.3 QUALITY ASSURANCE  
A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.  
PART 2 - PRODUCTS  
2.1 CONDUCTORS AND CABLES  
A. Conductor Material: Copper complying with NEMA WC 5; stranded conductor.  
B. Conductor Insulation Types: Type THHN-THWN complying with NEMA WC 5.  
2.2 CONNECTORS AND SPLICES  
A. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.  
PART 3 - EXECUTION  
3.1 CONDUCTOR AND INSULATION APPLICATIONS  
A. Exposed and Service Feeders: Type THHN-THWN, single conductors in raceway.  
B. Feeders Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN, single conductors in raceway.  
C. Exposed Branch Circuits, including in Crawlspace: Type THHN-THWN, single conductors in raceway.  
D. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN, single conductors in raceway.  
E. Branch Circuits Concealed in Concrete and below Slabs-on-Grade: Type THHN-THWN, single conductors in raceway.  
F. Fire Alarm Notification Circuits: Type THHN-THWN, in raceway.  
G. Fire Alarm SLC or Zone Circuits: Type TFFN or required cable by fire alarm system manufacturer, in raceway.  
H. Class I Control Circuits: Type THHN-THWN, in raceway.  
I. Class 2 Control Circuits: Type THHN-THWN, in raceway. Power limited cable, concealed in building finishes.  
J. Fire Alarm Circuits: Power limited cable, concealed in building finishes.  
3.2 INSTALLATION  
A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.  
B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidefall pressure values.  
C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.  
D. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.  
E. Support cables according to Division 16 Section "Basic Electrical Materials and Methods."  
F. Seal around cables penetrating fire-rated elements according to Division 7 Section "Through-Penetration Firestop Systems."  
G. Identify and color-code conductors and cables according to Division 16 Section "Electrical Identification."  
3.3 CONNECTIONS  
A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.  
B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.  
1. Use oxide inhibitor in each splice and tap conductor for aluminum conductors.  
C. Wiring at Outlets: Install conductor at each outlet, with at least 12 inches of slack.  
END OF SECTION 16120

SECTION 16130 - RACEWAYS AND BOXES  
PART 1 - GENERAL  
1.1 RELATED DOCUMENTS  
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.  
1.2 SUMMARY  
A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.  
1.3 DEFINITIONS  
A. EMT: Electrical metallic tubing.  
B. ENT: Electrical nonmetallic tubing.  
C. FMC: Flexible metal conduit.  
D. IMC: Intermediate metal conduit.  
E. LFMC: Liquidtight flexible metal conduit.  
F. LFNC: Liquidtight flexible nonmetallic conduit.  
G. RNC: Rigid nonmetallic conduit.  
1.4 QUALITY ASSURANCE  
A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.  
1.5 COORDINATION  
A. Coordinate layout and installation of raceways, boxes, enclosures, cabinets, and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.  
PART 2 - PRODUCTS  
2.1 METAL CONDUIT AND TUBING  
A. Rigid Steel Conduit: ANSI C80.1.  
B. Aluminum Rigid Conduit: ANSI C80.5.  
C. IMC: ANSI C80.6.  
D. EMT and Fittings: ANSI C80.3.  
1. Fittings: Set-screw type.  
E. FMC: Aluminum.  
F. LFMC: Flexible steel conduit with PVC jacket.  
G. Fittings: NEMA FB 1; compatible with conduit and tubing materials.  
2.2 SURFACE RACEWAYS  
A. Surface Metal Raceways: Galvanized steel with snap-on covers. Finish with manufacturer's standard prime coating.  
B. Types, sizes, and channels as indicated and required for each application, with fittings that match and mate with raceways.  
2.3 BOXES, ENCLOSURES, AND CABINETS  
A. Sheet Metal Outlet and Device Boxes: NEMA OS 1.  
B. Cast-Metal Outlet and Device Boxes: NEMA FB 1, Type FD, with gasketed cover.  
C. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.  
D. Cast-Metal Pull and Junction Boxes: NEMA FB 1, cast aluminum with gasketed cover.  
E. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous hinge cover and flush latch.  
1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.  
2. Nonmetallic Enclosures: Plastic, finished inside with radio-frequency-resistant paint.  
F. Cabinets: NEMA 250, Type 1, galvanized steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel. Hinged door in front cover with flush latch and concealed hinge. Key latch to match panelboards. Include metal barriers to separate wiring of different systems and voltage and include accessory feet for cable trays and busways.  
2.4 FINISHES  
A. Finish: For raceway, enclosure, or cabinet components, provide manufacturer's standard paint applied to factory-assembled surface raceways, enclosures, and cabinets before shipping.  
PART 3 - EXECUTION  
3.1 RACEWAY APPLICATION  
A. Indoors:  
1. Exposed: EMT.  
2. Concealed: EMT.  
3. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.  
4. Damp or Wet Locations: Rigid steel conduit.  
5. Boxes and Enclosures: NEMA 250, Type 1, except as follows:  
a. Damp or Wet Locations: NEMA 250, Type 4, stainless steel.  
B. Minimum Raceway Size: 1/2-inch trade size.  
C. Raceway Fittings: Compatible with raceways and suitable for use and location.  
1. Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.  
2. PVC Externally Coated, Rigid Steel Conduits: Use only fittings approved for use with that material. Patch all nicks and scrapes in PVC coating after installing conduits.  
D. Install nonferrous conduit or tubing for circuits operating above 60 Hz. Where aluminum raceways are installed for such circuits and pass through concrete, install in nonmetallic sleeve.  
E. Do not install aluminum conduits embedded in or in contact with concrete.  
3.2 INSTALLATION  
A. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.  
B. Complete raceway installation before starting conductor installation.  
C. Install temporary closures to prevent foreign matter from entering raceways.  
D. Make bends and offsets so ID is not reduced. Keep legs of bends in the same plane and keep straight legs of offsets parallel, unless otherwise indicated.  
E. Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.  
1. Install concealed raceways with a minimum of bends in the shortest practical distance, considering type of building construction and obstructions, unless otherwise indicated.  
F. Install exposed raceways parallel or at right angles to nearby surfaces or structural members and follow surface contours as much as possible.  
1. Run parallel or banded raceways together on common supports.  
2. Make parallel bends in parallel or banded runs. Use factory elbows only where elbows can be installed parallel, otherwise, provide field bends for parallel raceways.  
G. Join raceways with fittings designed and approved for that purpose and make joints tight.  
1. Use insulating bushings to protect conductors.  
H. Tighten set screws of threadless fittings with suitable tools.  
I. Terminations:  
1. Where raceways are terminated with locknuts and bushings, align raceways to enter squarely and install locknuts with dish part against box. Use two locknuts, one inside and one outside box.  
2. Where raceways are terminated with threaded hubs, screw raceways or fittings tightly into hub so end bears against wire protection shoulder. Where chase nipples are used, align raceways so coupling is square to box; tighten chase nipple so no threads are exposed.  
J. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 12 inches of slack at each end of pull wire.  
K. Telephone and Signal System Raceways, 2-inch Trade Size and Smaller: In addition to above requirements, install raceways in maximum lengths of 150 feet and with a maximum of two 90-degree bends or equivalent. Separate lengths with pull or junction boxes where necessary to comply with these requirements.  
L. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:  
1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.  
2. Where otherwise required by NFPA 70.  
M. Surface Raceways: Install a separate, green, ground conductor in raceways from junction box supplying raceways to receptacle or fixture ground terminals.  
N. Install hinged-cover enclosures and cabinets plumb. Support at each corner.  
END OF SECTION 16130



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Revision		
No.	Description	Date

Project number  
Date 10/12/18  
Drawn by JWS  
Checked by JWVS  
  
Permit Submittal

Electrical Specifications  
**E4.1**

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SECTION 16140 - WIRING DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
  1. Single and duplex receptacles, ground-fault circuit interrupters, integral surge suppression units, and isolated-ground receptacles.
  2. Single- and double-pole snap switches and dimmer switches.
  3. Device wall plates.

1.3 DEFINITIONS

- A. EMI: Electromagnetic interference.
- B. GFCl: Ground-fault circuit interrupter.
- C. PVC: Polyvinyl chloride.
- D. RFI: Radio-frequency interference.
- E. UTP: Unshielded twisted pair.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of wiring device through one source from a single manufacturer.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.5 COORDINATION

- A. Receptacles for Owner-Furnished Equipment: Match plug configurations.
  1. Cord and Plug Sets: Match equipment requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. Wiring Devices:
    - a. Bryant Electric, Inc./Hubbell Subsidiary.
    - b. Eagle Electric Manufacturing Co., Inc.
    - c. Hubbell Incorporated, Wiring Device-Kellens.
    - d. Leviton Mfg. Company Inc.
    - e. Cooper Wiring Devices.

2.2 RECEPTACLES

- A. Straight-Blade-Type Receptacles: Comply with NEMA WD 1, NEMA WD 6, DSCC W-C-596G, and UL 498.
- B. Straight-Blade and Locking Receptacles: Heavy-Duty grade.
- C. GFCl Receptacles: Straight blade, non-feed-through type, Heavy Duty grade, with integral NEMA WD 6, Configuration 5-20R duplex receptacle, complying with UL 498 and UL 943. Design units for installation in a 2-3/4-inch-deep outlet box without an adapter.

2.3 CORD AND PLUG SETS

- A. Description: Match voltage and current ratings and number of conductors to requirements of equipment being connected.
  1. Cord: Rubber-insulated, stranded-copper conductors, with Type SOW-A jacket, with green-insulated grounding conductor and equipment-rating ampacity plus a minimum of 30 percent.
  2. Plug: Nylon body and integral cable-clamping jaws. Match cord and receptacle type for connection.

2.4 SWITCHES

- A. Single- and Double-Pole Switches: Comply with DSCC W-C-896F and UL 20.
- B. Snap Switches: Heavy-Duty grade, quiet type.
- C. Combination Switch and Receptacle: Both devices in a single gang unit with plaster ears and removable tab connector that permit separate or common feed connection.
  1. Switch: 20 A, 120/277-V ac.
  2. Receptacle: NEMA WD 6, Configuration 5-20R.
- D. Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on/off switches and audible frequency and EMI/RFI filters.
  1. Control: Continuously adjustable slider, with single-pole or three-way switching to suit connections.
  2. Incandescent Lamp Dimmers: Modular, 120 V, 60 Hz with continuously adjustable rotary knob, toggle switch, or slider, single pole with soft tap or other quiet switch; EMI/RFI filter to eliminate interference; and 5-inch wire connecting leads.

2.5 WALL PLATES

- A. Single and combination types to match corresponding wiring devices.
  1. Plate-Securing Screws: Metal with head color, to match plate finish.
  2. Material for Finished Spaces: 0.035-inch-thick, satin-finished stainless steel
  3. Material for Unfinished Spaces: Galvanized steel.
  4. Material for Wet Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in "wet locations."

2.6 FINISHES

- A. Color:
  1. Wiring Devices Connected to Normal Power System: White, unless otherwise indicated or required by NFPA 70.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install devices and assemblies level, plumb, and square with building lines.
- B. Install wall dimmers to achieve indicated rating after derating for ganging according to manufacturer's written instructions.
- C. Install unshared neutral conductors on line and load side of dimmers according to manufacturer's written instructions.
- D. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical, and with grounding terminal of receptacles on top. Group adjacent switches under single, multi-gang wall plates.
- E. Remove wall plates and protect devices and assemblies during painting.

3.2 IDENTIFICATION

- A. Comply with Division 16 Section "Electrical Identification."
  1. Receptacles: Identify panelboard and circuit number from which served. Use hot, stamped or engraved machine printing with white-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

3.3 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.4 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections and prepare test reports:
  1. After installing wiring devices and after electrical circuitry has been energized, test for proper polarity, ground continuity, and compliance with requirements.
  2. Test GFCl operation with both local and remote fault simulations according to manufacturer's written instructions.
- B. Remove malfunctioning units, replace with new units, and retest as specified above.

END OF SECTION 16140

SECTION 265119 - INTERIOR LIGHTING

PART 1 - PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Interior solid-state luminaires that use LED technology.
  2. Lighting fixture supports.
- B. Related Requirements:
    1. Division 26 Section "Low Voltage Electrical Power Conductors and Cables" for conductor requirements.
    2. Division 26 Section "Raceway and Boxes" for conduit/raceway requirements.
    3. Division 26 Section "Vibration and Seismic Controls" for seismic requirements.

1.3 DEFINITIONS

- CCT: Correlated color temperature.
- C. CRI: Color Rendering Index.
- D. Fixture: See "Luminaire."
- E. IP: International Protection or Ingress Protection Rating.
- F. LED: Light-emitting diode.
- G. Lumen: Measured output of lamp and luminaire, or both.
- H. Luminaire: Complete lighting unit, including lamp, reflector, and housing.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated on fixture schedule and any assessor equipment required.
  1. Arrange in order of luminaire designation.
  2. Include data on features, accessories, and finishes.
  3. Include physical description and dimensions of luminaires.
  4. Include emergency lighting units, including batteries and chargers.
  5. Include life, output (lumens, CCT, and CRI), and energy efficiency data.
  6. Photometric data and adjustment factors based on laboratory tests, complying with IESNA Lighting Measurements Testing and Calculation Guides, of each lighting fixture type. The adjustment factors shall be for lamps and accessories identical to those indicated for the lighting fixture as used in this Project IES LM-79 and IES LM-80.

B. Product Schedule: For luminaires and lamps. Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing laboratory providing photometric data for luminaires.

- Seismic Qualification Certificates: For luminaires, accessories, and components, from manufacturer.
  1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
  2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.

B. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

C. Product Certificates: For each type of luminaire.

- D. Product Test Reports: For each luminaire, for tests performed by manufacturer and witnessed by a qualified testing agency.
- E. Sample warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For luminaires and lighting systems to include in operation and maintenance manuals.
  1. Provide a list of all lamp types used on Project; use ANSI and manufacturers' codes.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  1. Lamps: Ten for every 100 of each type and rating installed. Furnish at least one of each type.
  2. Diffusers and Lenses: One for every 100 of each type and rating installed. Furnish at least one of each type.
  3. Globes and Guards: One for every 20 of each type and rating installed. Furnish at least one of each type.

1.8 QUALITY ASSURANCE

- Luminaire Photometric Data Testing Laboratory Qualifications: Provided by an independent agency, with the experience and capability to conduct the testing indicated, that is an NRTL as defined by OSHA in 29 CFR 1910.7, accredited under the NVLAP for Energy Efficient Lighting Products, and complying with the applicable IES testing standards.
- Provide luminaires from a single manufacturer for each luminaire type.
- B. Each luminaire type shall be binned within a three-step MacAdam Ellipse to ensure color consistency among luminaires.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protect finishes of exposed surfaces by applying a strippable, temporary protective covering before shipping.

1.10 WARRANTY

- When warranties longer than one year are required and would exceed the "one-year period for correction of Work," verify with Owner's counsel that warranties stated in this article are not less than remedies available to Owner under prevailing local laws.
- A. Warranty: Manufacturer and Installer agree to repair or replace components of luminaires that fail in materials or workmanship within specified warranty period.

Verify available warranties and warranty periods.

- B. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- Seismic Performance: Luminaires shall withstand the effects of earthquake motions determined according to ASCE/SEI 7
- C. Seismic Performance: Luminaires and lamps shall be labeled vibration and shock resistant.

The term "withstand" means "the luminaire will remain in place without separation of any parts when subjected to the seismic forces specified.

2.2 LUMINAIRE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- Coordinate "EM Global Compliance" Paragraph below with Drawings.
- B. Recessed Fixtures: Comply with NEMA LE 4.
  - C. Bulb shape complying with ANSI C79.1.
  - D. Lamp base complying with ANSI C81.61.
  - E. CRI of 80. CCT of 3500 K.
  - F. Rated lamp life of 50,000 hours.
  - G. Lamps dimmable from 100 percent to 0 percent of maximum light output.
  - H. Internal driver.
  - I. Nominal Operating Voltage: 120 V ac.

Retain "Lens Thickness" Subparagraph below for all diffuser and globe types.

- 1. Lens Thickness: At least 0.125 inch (3.175 mm) minimum unless otherwise indicated.

J. Housings:

1. Extruded-aluminum housing and heat sink.
2. Clear (Color as noted on fixture schedule) anodized powder-coat finish.

2.3 MATERIALS

A. Metal Parts:

1. Free of burrs and sharp corners and edges.
2. Sheet metal components shall be steel unless otherwise indicated.
3. Form and support to prevent warping and sagging.

- B. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position.

C. Diffusers and Globes:

- Acrylic Diffusers: One hundred percent virgin acrylic plastic, with high resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.
  4. Lens Thickness: At least 0.125 inch (3.175 mm) minimum unless otherwise indicated.

- D. Factory-Applied Labels: Comply with UL 1598. Include recommended lamps. Locate labels where they will be readily visible to service personnel, but not seen from normal viewing angles when lamps are in place.

- 1. Label shall include the following lamp characteristics:
  - a. "USE ONLY" and include specific lamp type.
  - b. Lamp diameter, shape, size, wattage, and coating.
  - c. CCT and CRI for all luminaires.

2.4 METAL FINISHES

- A. Variations in finishes are unacceptable in the same piece. Variations in finishes of adjoining components are acceptable if they are within the range of approved Samples and if they can be and are assembled or installed to minimize contrast.

2.5 LUMINAIRE FIXTURE SUPPORT COMPONENTS

- A. Comply with requirements in Section 260529 "Hangers and Supports for Electrical Systems" for channel and angle iron supports and nonmetallic channel and angle supports.

- B. Single-Stem Hangers: 1/2-inch (13-mm) steel tubing with swivel ball fittings and ceiling canopy. Finish same as luminaire.
- C. Wires: ASTM A 641/A 641 M, Class 3, soft temper, zinc-coated steel, 12 gage (2.68 mm).
- D. Rod Hangers: 3/16-inch (5-mm) minimum diameter, cadmium-plated, threaded steel rod.
- E. Hook Hangers: Integrated assembly matched to luminaire, line voltage, and equipment with threaded attachment, cord, and locking-type plug.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for luminaire to verify actual locations of luminaire and electrical connections before fixture installation. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with NECA 1.
- B. Install luminaires level, plumb, and square with ceilings and walls unless otherwise indicated.
- C. Install lamps in each luminaire.

D. Supports:

1. Sized and rated for luminaire weight.
2. Able to maintain luminaire position after cleaning and relamping.
3. Provide support for luminaire without causing deflection of ceiling or wall.
4. Luminaire mounting devices shall be capable of supporting a horizontal force of 100 percent of luminaire weight and vertical force of 400 percent of luminaire weight.

E. Flush-Mounted Luminaire Support:

1. Secured to outlet box.
2. Attached to ceiling structural members at four points equally spaced around circumference of luminaire.
3. Trim ring flush with finished surface.

F. Wall-Mounted Luminaire Support:

1. Attached to structural members in walls or Attached to a minimum 20 gauge backing plate attached to wall structural members.
2. Do not attach luminaires directly to gypsum board.

G. Ceiling-Mounted Luminaire Support:

1. Ceiling mount with four 5/32-inch- (4-mm-) diameter aircraft cable supports adjustable to 120 inches (6 m) in length. Do not cut cable, coil cable above fixture.

H. Suspended Luminaire Support:

1. Pendants and Rods: Where longer than 48 inches (1200 mm), brace to limit swinging.
2. Stem-Mounted, Single-Unit Luminaires: Suspend with twin-stem hangers. Support with approved outlet box and accessories that hold stem and provide damping of luminaire oscillations. Support outlet box vertically to building structure using approved devices.
3. Continuous Rows of Luminaires: Use tubing or stem for wiring at one point wire support for suspension for each unit length of luminaire chassis, including one at each end.
4. Do not use ceiling grid as support for pendant luminaires. Connect support wires or rods to building structure.

I. Ceiling-Grid-Mounted Luminaires:

1. Secure to any required outlet box.
2. Secure luminaire to the luminaire opening using approved fasteners in a minimum of four locations, spaced near corners of luminaire.
3. Use approved devices and support components to connect luminaire to ceiling grid and building structure in a minimum of four locations, spaced near corners of luminaire.

- J. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables" for wiring connections.

3.3 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.4 FIELD QUALITY CONTROL

- Perform the following tests and inspections: Coordinate "Operational Test" Subparagraph below with requirements in Section 260923 "Lighting Control Devices."
  1. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
  2. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery power and retransfer to normal.

- B. Luminaire will be considered defective if it does not pass operation tests and inspections. Luminaires considered to be defective are to be replaced with new.

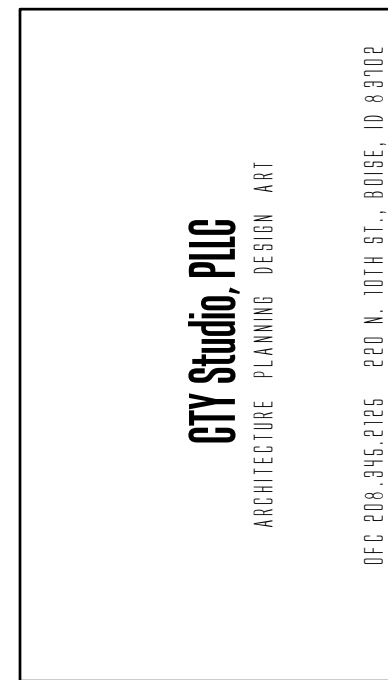
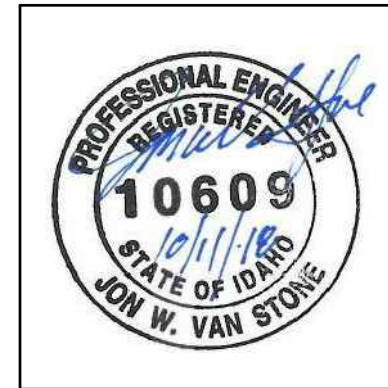
- C. Prepare test and inspection reports.

3.5 ADJUSTING

- Verify with Owner that adjusting service is required for Project.
- A. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting the direction of aim of luminaires to suit occupied conditions. Make up to two visits to Project during other-than-normal hours for this purpose. Some of this work may be required during hours of darkness.

1. During adjustment visits, inspect all luminaires. Replace lamps or luminaires that are defective.
2. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.
3. Adjust the aim of luminaires in the presence of the owner.

END OF SECTION 265119



**9th Main Parking Garage**  
**BikeBOI Parking Station**  
 848 W Main Street, Boise, Idaho

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Checked by	JVWS

Permit Submittal

**Electrical Specifications**  
**E4.2**