

Lease Agreement between the City of Saint Paul and the Lower Phalen Creek Project

THIS LEASE AGREEMENT, dated this ____ day of _____, 2021 is entered into by and between the City of Saint Paul, a home rule charter city (“**City**”), and the Lower Phalen Creek Project, a registered 501(c)(3) Minnesota non-profit corporation (“**Lower Phalen Creek Project**” or “**Tenant**”).

WHEREAS, the City is the owner of certain real property encompassing the Bruce Vento Nature Sanctuary (“**Nature Sanctuary**”), located at 4th St. E, Saint Paul, MN 55106; and

WHEREAS, Lower Phalen Creek Project is a non-profit corporation whose purpose is engaging people to honor and care for our natural places and the sacred sites and cultural value within them; and

WHEREAS, Lower Phalen Creek Project has worked with the City and the community to acquire, restore and develop a portion of the Nature Sanctuary and has a vision to create and operate, at this location, a community gathering place and an interpretive center called Wakan Tipi Center (“**Wakan Tipi Center**” or “**Center**”), in honor of Wakan Tipi Cave, a Dakota sacred site and historic site pursuant to a Development Agreement dated April 22, 2015 as amended and restated pursuant to that Amended and Restated Development Agreement dated as of July 1, 2020 (the “**Development Agreement**”); and

WHEREAS, the Center will be part of the City’s Great River Passage Master Plan; and

WHEREAS, under the provisions contained in Minn. Stat. §§ 410.07, 412.211, and 412.221, the Saint Paul City Charter § 1.03, and the Saint Paul Administrative Code § 110.01, inter alia (collectively, the “**Statutory Authority**”), and specific language contained in 2018 Minn. Law, Chapter 214, Article 1, Section 17, Subdivision 6 and 2020 Minn. Law, Article 1, Section 17, Subdivision 11 (the “**State Program Enabling Legislation**”) the State of Minnesota has allocated \$4,000,000 in the aggregate (the “**Grant Funds**”) to be given to the City through the Metropolitan Council to predesign, design, construct, furnish and equip the Wakan Tipi Center in the Bruce Vento Nature Sanctuary for programs that the City determines meet regional and city park-purpose requirements (as defined in the Grant Agreement referenced below, the “**Governmental Program**”); and

WHEREAS, the City will receive the Grant Funds from the State of Minnesota pursuant to a Grant Agreement between the City and the Metropolitan Council (the “**Grant Agreement**”) to be used as part of the financial investments in the Site and these funds are general obligation bond proceeds which will result in the property becoming “state bond financed property” as defined in Minn. Stat. § 16A.695 subd. (a)(1); and

WHEREAS, this Lease is being entered into in accordance with the provisions of the State Program Enabling Legislation, Minnesota Statute Section 16A.695, and rules, regulations, and orders issued pursuant thereto in order to carry out this public purpose and it is the intent of the parties that Tenant shall implement the goals of the City in serving the public purpose as herein provided. Throughout this Lease, the following capitalized terms: “**Commissioner of MMB,**” “**G.O. Bonds,**” “**G.O. Compliance Legislation,**” “**Declaration,**” “**Commissioner’s Order,**” and “**Governmental Program**” and any other capitalized terms not otherwise defined in this Lease shall have the meanings assigned thereto in the Grant Agreement;

NOW THEREFORE, in consideration of the mutual covenants and promises hereinafter set forth, parties agree as follows:

1. **Leased Premises.** City, pursuant to authority granted by Minn. Stat. § 471.16, subd. 1, hereby grants and leases to Lower Phalen Creek Project, and Lower Phalen Creek Project hereby accepts the lease of the portion of the park property located at 590 4th St. East Saint Paul, MN 55106 encompassing the Nature Sanctuary, which will be referred to herein as the “**Leased Premises**”, “**Premises**” or “**Site**”, that is shown on the attached Exhibit A, incorporated herein by reference. As shown in Exhibit A, the Leased Premises will automatically change from Phase 1 to additionally including the Phase II area upon the termination of Kellogg Bridge construction activities within Kellogg Bridge right-of-way, construction easements, and areas for which the City has obtained or conveyed access rights for the construction of Kellogg Bridge.
2. **Term of Lease.**
 - a. This Lease will become effective on the first of the month subsequent to City Council approval and will be effective for a period of fifteen years (as may be extended per the following subparagraphs, the “**Term**”) after the City receives the certificate of occupancy for the Center, unless earlier terminated pursuant to § 18 or 19. Lower Phalen Creek Project’s obligations hereunder shall commence upon completion of the Center as evidenced by the certificate of occupancy (the “**Commencement Date**”).
 - b. This Lease may be extended during the last six (6) months of the Term by written notice from Lower Phalen Creek Project to City for one additional fifteen-year term (the “**Renewal Term**”) upon the following conditions: 1) that the City determines, in the form of a council resolution, that the City desires to renew the Lease; 2) that Lower Phalen Creek Project has demonstrated that it continues to carry out the Governmental Program at the Site; 3) that the Center and Site have been adequately maintained during the initial term; 4) that Lower Phalen Creek Project is not in breach of the terms of this Lease; and 5) that Lower Phalen Creek

Project and the City agree to a capital repair and replacement plan for the Renewal Term.

- c. Notwithstanding anything to the contrary herein, City is not required to renew this Lease and may, in its sole option and discretion, pursuant to a City Council action allow the Lease to expire at the end of the original Term and thereafter directly operate the Governmental Program or contract another party to operate the Governmental Program at the Leased Premises.

3. **Use of Site.**

- a. The City will construct the Wakan Tipi Center per Section 28 below. The Center will be approximately 9,000 square feet, located within the Premises. It will be a welcoming, beautiful enhancement to the sanctuary, both in terms of its minimal environmental impact and its visual appeal. It will provide a significant improvement to the Commercial and 4th Street corner, which is now asphalt pavement and highway/road overpasses. The Center will be a location for a variety of arts, cultural, educational and environmental programs requested by East Side and Lowertown neighborhood residents and visitors, as well as statewide members of Dakota communities, including space for community gathering and events as well as restroom facilities for people visiting the sanctuary or trails. For residents and visitors, it will be a place in which to appreciate our natural world, learn how to promote conservation in our everyday lives, and celebrate unique traditions and natural values.
- b. Lower Phalen Creek Project intends to operate Wakan Tipi Center in accordance with the Governmental Program and with three primary objectives: (1) to honor, accurately interpret and educate the community about the rich and diverse cultural and natural history and features of the site and the Lower Phalen Creek corridor, (2) to honor the significance of Wakan Tipi Cave as a Dakota sacred site, and (3) to create a gathering place and visitor facility for the community and guests in the area.
- c. All use of the Leased Premises by Lower Phalen Creek Project must be for programs and services consistent with the Governmental Program. Any alterations, physical changes, or modifications to change the intended use of the Leased Premises will be subject to prior written approval from the Director of the Saint Paul Parks and Recreation Department and should be developed with community input.
- d. During the Term, Lower Phalen Creek Project shall be responsible for staffing and programming in the Center, consistent with its mission, offering exhibits, programs, tours, workshops and classes to the public and visitor amenities, which may include food, retail and other park-visitor amenities consistent with park purposes and Metropolitan Parks and Open Spaces Systems generally applicable

requirements. The Wakan Tipi Center will complement and support cultural and environmental interpretation programs for the Bruce Vento Nature Sanctuary.

- e. The City is responsible for ensuring that the public has access to the Leased Premises by maintaining public access comparable to other public streets located within the City, subject to road closures for construction. The City, in good faith, will work with Tenant to find an alternative access route in the advent of any road closures. Tenant is responsible for ensuring that the public has access to the public portions of the Center and to its programs during reasonable hours and days.
 - f. Lower Phalen Creek Project agrees to post hours of operation of the Center for public viewing.
 - g. Lower Phalen Creek Project is responsible for providing general supervision on the outdoor grounds within the Leased Premises and the corresponding parking lot(s) located within the Leased Premises during the Center's hours of operation. This includes general monitoring of outside activities to help ensure a safe environment for youth and families visiting the Premises.
4. **Payments.** Parties agree that the investments to be made for the Leased Premises and other payments to be made by Lower Phalen Creek Project during the Term, as well as the benefit to the public in creating the Wakan Tipi Center as a gathering place and interpretative center, offset the need for monthly rental payments. All revenues generated by Lower Phalen Creek Project in operating the Governmental Program will be kept by Lower Phalen Creek Project.
5. **Tenant Improvements and Fixtures, Furniture, and Equipment.**
- a. Lower Phalen Creek Project may not make any alterations to the Leased Premises without the written consent of City, which will not be unreasonably withheld.
 - b. To make any such alterations, Lower Phalen Creek Project must first submit to City for approval an accurate description of the proposed alterations including any information the City may need to determine whether to grant permission. Any work done under this paragraph will be done at Lower Phalen Creek Project's sole cost and responsibility. All such work must be performed in a workmanlike manner and in conformance with applicable fire, safety and building codes, so that the structural integrity and building systems of the building will not be impaired, and that no liens will attach to the premises by reason thereof. Notwithstanding the previous sentence, if any such lien shall be so filed against the City's interest, Tenant shall take all steps necessary to remove it within 120 days of its being filed; provided, however, that Tenant may contest any such lien if Tenant first posts a surety bond, letter of credit or cash with the applicable court sufficient to release the Premises from such lien, or otherwise protect City from foreclosure thereof. All alterations made by Lower Phalen Creek Project to the Leased Premises will become the property of City

upon termination or expiration of the Term. Lower Phalen Creek Project shall employ licensed and bonded contractors to perform all work, must obtain all required permits and shall post payment and performance bonds to ensure that no liens are placed on the property. Lower Phalen Creek Project acknowledges that any improvements which involve State or City money may be subject to municipal contracting requirements and agrees to comply with all such requirements.

- c. To the extent needed for programming purposes, Lower Phalen Creek Project shall be responsible for providing all furnishings, appliances, audio visual equipment, window treatments, and interior signage for the Center. All other equipment will be included as part of the City's construction contract, including but not limited to the following: HVAC, mechanical, plumbing, and low voltage conduit. Upon expiration or earlier termination of this Lease, Tenant shall have the right to remove, during the last ninety (90) days of the term of this Lease, all movable furniture, furnishings, equipment and trade fixtures within the Premises, except for furniture, furnishings, equipment and trade fixtures purchased by the City.
6. **Taxes.** Lower Phalen Creek Project will be responsible for and pay all taxes and assessments against the Leased Premises due and payable with respect to the period throughout the Term, except that it may at its own expense contest and challenge the imposition or amount of any such tax or assessment as allowed by law. In the event this Lease is terminated by either party, City may at its option require Lower Phalen Creek Project to pay such contested taxes pending appeal, to place in escrow a sum sufficient to pay said taxes, or take other action that will remove said contested taxes as an encumbrance to title or as an exception to the transferability of marketable title to the Leased Premises.
7. **Right of Entry.** Except for the purposes set forth in the following sentence, at all times during the Term, City shall have the right, by itself, its agents and employees, upon 24 hours' prior written notice, to enter into the Center and upon the Leased Premises for any legitimate purpose, including repair and maintenance, during reasonable business hours or, in the event of an emergency, at any time. At all times during the Term, City shall also have the right, by itself, its agents and employees, upon at least thirty (30) days' prior written notice, to enter into and upon the Leased Premises, but outside of the building comprising the Center, for access for construction and staging purposes for the City's Kellogg Bridge project and any City project relating to the Sanctuary. Nothing within this section shall be interpreted to limit the City's rights to access any of its right of way, easements, or areas for which the City has obtained or conveyed access rights.
8. **Insurance**

- a. City will acquire and keep in effect during the Term the following coverage:

FIRE AND ALL RISK INSURANCE on the Leased Premises shall be acquired and maintained during the Term by the City, and Lower Phalen Creek Project will pay to the City for said insurance in the amount of \$.12 per year per square foot of the Center, due on the Commencement Date and on the anniversary date of the Commencement Date each subsequent year.

- b. Lower Phalen Creek Project will acquire and maintain during the Term the following coverage:

1. Commercial Property Insurance on its personal property.
2. Commercial General Liability Insurance including blanket contractual liability coverage, personal injury liability coverage and broad form property damage liability endorsement with a combined single limit of not less than \$1,000,000 per occurrence, \$2,000,000 in aggregate with an additional \$1,000,000 umbrella. Such insurance shall: (a) name the City of Saint Paul as additional insured; (b) be primary with respect to City's insurance or self-insurance; (c) not exclude explosion, collapse, and underground property damage; and (d) be written on an "Occurrence Form" policy basis.
3. Worker's Compensation Insurance with not less than statutory minimum limits; and Employers' Liability Insurance with minimum limits of at least \$100,000 per accident and with an all states endorsement.
4. Lower Phalen Creek Project must provide current insurance certificates prior to the commencement of the date of the Lease and annually thereafter during the Lease term. The certificates must certify whether the insurance agent has errors and omissions insurance coverage.
5. The limits cited under each insurance requirement above establish minimums; and it is the sole responsibility of Lower Phalen Creek Project to purchase and maintain any additional insurance that it believes to be necessary or desirable in relation to this Lease.
6. Nothing in this Paragraph constitutes a waiver by City of any statutory limits or exceptions on liability.

7. Lower Phalen Creek Project must place the insurance with responsible insurance companies authorized and licensed to do business in the state of Minnesota.
9. **Non-Discrimination.** Lower Phalen Creek Project will not discriminate against any person wishing to participate in its programs or any person wishing to use the Center because of race, creed, religion, color, gender, sexual or affectional orientation, national origin, ancestry, familial status, age, disability, marital status, or status with regard to public assistance and will take affirmative steps to ensure that participants are treated without the same types of discrimination during their participation in programs or use of the Leased Premises.
10. **Reporting: Program Evaluation**
 - a. Attached as Exhibit F incorporated herein by reference is the initial program report identifying the planned activities to advance the Governmental Program to be operated at the Site pursuant to this Lease. Lower Phalen Creek Project will annually provide an updated report to the City which will identify all recreational programing, and include budgets showing revenue and expenses for the programs which can be satisfied by an annual report, audited financial reports and Form 990.
 - b. Annually, Lower Phalen Creek Project must provide the City with a report identifying all Leased Premises rentals and events use for the prior calendar year. At a minimum, the report shall include the name of the group or individual responsible for the rental or event name, contact information, the date and time of the rental, and any additional services that were provided.
11. **Assignment and Subletting.** Lower Phalen Creek Project may not assign this Lease without the prior written consent of City and, if the City determines that it is necessary, the Metropolitan Council. With the prior written approval of the City, Lower Phalen Creek Project may sublease portions of the Center for uses consistent with Section 3 above.
12. **Maintenance and Repair; Signage.** The maintenance responsibilities of Lower Phalen Creek Project and the City are outlined in length in Exhibit B. Lower Phalen Creek Project will be responsible for all maintenance and repairs of the Center during the Term. Except as otherwise agreed to in writing between the parties, the City will be responsible for the ongoing maintenance (including but not limited to snow removal within 24 hours after any snowfall of at least 2 inches), repair and replacement of the following improvements (collectively, the “**City-Maintained Improvements**”). The City shall

complete these maintenance tasks consistent with current City Parks and Recreation Department standards:

- (1) entrance road and parking lot(s)
- (2) utility infrastructure
- (2) storm water infrastructure
- (3) site lighting
- (4) porta-potty
- (5) landscaping, including planting and plant materials, except for the LPCP Landscaping (defined below).

During the Term, any change in the City-Maintained Improvements will require the prior approval of Tenant, which will not be unreasonably withheld. Tenant will be responsible for the initial installation, maintenance and repair of the landscaping in accordance with, and within the area shown on, the attached Exhibit B incorporated herein by reference (the “**LPCP Landscaping**”).

Tenant will be responsible for the initial installation, maintenance and repair of all signage on the exterior of the Center and within the Premises, except for the wayfinding signage referenced below, all signage subject to the reasonable approval of City. City will install, maintain and repair wayfinding signage for the Center: (a) at the existing wayfinding signposts located near the Premises, including but not limited to the existing signage off of Fourth Street East, and (b) within the Nature Sanctuary but outside the Premises to the extent reasonably necessary for members of the public to find the Center once they are within the Nature Sanctuary.

13. **Indemnity**. Lower Phalen Creek Project agrees to defend and indemnify the City and its officers, agents, and employees from all claims, demands, actions or causes of whatsoever nature or character (collectively, “**Claims**”), arising out of or by reason of the use during the Term of the Leased Premises or the use or condition of the Leased Premises during the Term or as a result of the operations or business activities taking place on the Leased Premises during the Term, except to the extent that any such Claims are based on the maintenance of the portion of the grounds for which the City has responsibility or are caused by the willful or intentional misconduct of the City or its officers, agents, or employees.
14. **Holdover**. Any holdover after the expiration of this Lease will be allowed only after receiving the written consent of City. Any such holdover will be deemed to be a tenancy only from month-to-month. All other terms and conditions of this Lease will be applicable.

15. **Pollutions and Contaminants.** Lower Phalen Creek Project must comply with all ordinances, laws, rules and regulations enacted by any governmental body or agency relating to the control, abatement or emission of air and water contaminants and the disposal of refuse, solid wastes, or liquid wastes.
16. **Compliance with Laws.** Lower Phalen Creek Project must comply with all state and local laws, rules, regulations and city ordinances relating to its use and operation of the Leased Premises.
17. **Material Breaches.**
- a. **By Lower Phalen Creek Project.** The occurrence of any of the following events during the Term constitutes a material breach by Lower Phalen Creek Project:
1. The filing of a petition to have Lower Phalen Creek Project adjudicated bankrupt or a petition for reorganization or arrangement under any laws of the United States relating to bankruptcy filing by Lower Phalen Creek Project;
 2. Failure by Lower Phalen Creek Project to maintain its 501(c)(3) status;
 3. Failure by Lower Phalen Creek Project to operate the Governmental Program as set forth in § 3;
 4. Failure to continuously maintain insurance as required by this Lease;
 5. An attempt to transfer or assign this Lease without the consent of the City;
 6. A breach of any obligation under this Lease and such breach continues for a period of 30 days or more after receipt of written notice of such breach, or if the cure requires longer than thirty days failure to notify the City of the need for additional time, set a schedule reasonably agreeable to the parties, and begin and pursue the cure in a timely manner.
 7. A pattern of persistent and repeated breaches, whether or not such breaches have been cured.
- b. **By the City.** The occurrence of any of the following events during the Term constitutes a material breach by the City:
1. Failure to continuously maintain insurance as required by this Lease;
 2. Breach of any obligation under this Lease and such breach continues for a period of 30 days or more after receipt of written notice of such breach, or if the cure requires longer than thirty days failure to notify Lower Phalen Creek Project of the need for additional time, set a schedule reasonably agreeable to the parties, and to begin and pursue the cure in a timely manner.

18. **Termination.**

- a. In the event of breach of this Lease, the non-breaching party may terminate this Lease by giving written notice of default to the other party, provided, however, that the party receiving the notice shall have thirty (30) days in which to cure such default, or if such default is not capable of cure within said 30 days, such time as is reasonably needed to cure such default so long as the cure is commenced within the 30 day period and the party is diligently pursuing the cure, in which case this Lease may not be terminated. Any notice of default must include a statement of the basis for believing the other party to be in default and the steps needed to cure such default.
- b. At the termination of this Lease the Leased Premises must be surrendered peacefully and returned to the City in good condition reasonable wear and tear excepted.

19. **Statutory Termination.** Notwithstanding any other provisions of this Lease to the contrary, if the Governmental Program is terminated or changed in response to changes in state law in such a manner as to cause this Lease and the operation of the Leased Premises to be inconsistent with the changed Governmental Program, then this Lease shall be terminated by 120 days prior written notice to Tenant, provided however that City agrees that it will not terminate or change the Governmental Program unless required to do so by applicable State law.

20. **Notices.** Any notice, statements, bills, or other communications required to be given under this Lease will be deemed to be duly delivered if in writing and delivered to the other Party personally, sent by both: (1) certified mail address return-receipt postage prepaid or delivered by a nationally-recognized overnight courier; and (2) electronic mail, in all cases addressed as follows:

CITY:

Director,
Saint Paul Parks and Recreation
400 City Hall Annex
25 W. 4th Street
Saint Paul, MN 55102
Email address: alice.messer@ci.stpaul.mn.us

LOWER PHALEN
CREEK PROJECT:

Lower Phalen Creek Project
804 Margaret Street
Saint Paul, MN 55106
Attn: Executive Director
Email: mlorenz@lowerphalencreek.org

Or to such other subsequent address as the respective parties shall designate in writing. The time of giving such notice or communication shall be deemed to be the time when the same is actually delivered to the other party.

21. **Amendments.** No amendments to this Lease shall be effective without being reduced in writing and executed by both parties and agreed to by the Commissioner of Minnesota Management and Budget or his/her designee.
22. **Assignments.** The City and Lower Phalen Creek Project each binds itself and its successors, legal representatives, and assigns, with respect to all covenants of this Lease; and neither the City nor Lower Phalen Creek Project will assign or transfer its interest in this Lease without the written consent of the other.
23. **Waiver.** Any fault of a party to assert any right under this Lease shall not constitute a waiver or a termination of that right, this Lease, or any of this Lease's provisions.
24. **Entire Agreement.** It is understood and agreed that this entire Lease supersedes all oral agreements and negotiations between the parties relating to the subject matters herein.
25. **Jurisdiction.** This Lease shall be construed under the laws of the State of Minnesota and any dispute regarding the interpretation or enforcement shall be venued in the Ramsey County District Court.
26. **Quiet Possession.** Landlord covenants that it has the right to make this Lease for the Term and covenants that if Tenant shall perform all of the covenants, terms and conditions of this Lease to be performed by Tenant, Tenant shall, during the Term freely, peaceably and quietly occupy and enjoy the full possession of the Premises.
27. **Early Termination.**

If (a) this Lease is terminated prior to the end of the Term or is not renewed pursuant to Section 2, (b) the Premises are subject to the Grant Agreement, the Declaration, and the G.O. Compliance Legislation, and (c) the City determines by City Council action that the Premises are no longer usable or needed to carry out the Governmental Program, then if the City sells the City's interest in the Premises to avoid a default under the Grant Agreement, it will do so on terms required by the Commissioner of MMB in his or her reasonable discretion and with his or her permission.

In the event of a sale of the City's interest in the Premises (a "**Sale**") to Tenant or a third party, after deducting the City's reasonable and customary costs incurred in such Sale, the net proceeds of such Sale must be applied as follows: (v) first, to pay to the Commissioner of MMB the amount of State Grant proceeds actually disbursed and used to better the Premises in accordance with the Grant Agreement, less any payments that have been made pursuant to the Grant Agreement; (w) second, to pay the City its Ownership Value; (x) third, to pay in full any approved and outstanding public or private debt incurred to acquire or better the City's interest in the Premises.; (y) fourth, to pay to Tenant and any other interested public or private entities holding Approved Debt, the amount of money contributed initially and subsequently by each to the acquisition or betterment of the Premises, less any amounts previously paid; and (z) fifth, any excess over those amounts must be divided in proportion to the shares contributed initially (as set forth in attached Exhibit C incorporated herein by reference) and subsequently to acquisition and betterment of the Premises. Exhibit C and subsection (z) in the preceding sentence shall be adjusted to include the amount of money contributions made by Tenant and City subsequently to acquire additional real estate that is included in the Premises, and to pay for capital improvements to the Premises or the Improvements. Upon the Commissioner of MMB's receipt of such sums, the Premises shall be released from the Grant Agreement and the Declaration and shall no longer be considered bond financed property or subject to the G.O. Compliance Legislation.

28. **Construction of Improvements.** City shall enter into appropriate contracts to cause the construction of the building and other improvements described on the attached Exhibit E incorporated herein by reference (the "**Improvements**"), subject to and in accordance with all terms and conditions of this Lease, the Development Agreement, the Grant Agreement, and the Disbursing Agreement between City, Tenant, the State, and the title company named therein dated as of the date hereof (the "**Disbursing Agreement**") and in material compliance with all applicable federal, state and local laws, rules and regulations, and the State Grant proceeds shall be used to construct the Improvements as provided herein and in accordance with the Grant Agreement and the Disbursing Agreement. Phase I of the Project shall be substantially completed by July 6, 2022 and Phase II of the Project shall be substantially completed by June 30, 2025 (collectively, the "**Completion Date**"), subject to delays in the performance obligations for construction of the Improvements due to the unforeseeable causes beyond the control of City and without the fault or negligence of City, including but not limited to adverse or severe weather conditions, acts of God, acts of the public enemy, strikes and other similar labor troubles, fire, floods, epidemics, quarantines, unavailability of power, unavailability of materials, delays due to damage or destruction of the Premises or the equipment used to construct the same, discovery of hazardous materials or other concealed site conditions including environmental issues, or delays of contractors due to such discovery, and litigation commenced by third parties which by injunction or other similar judicial action directly results in delays and other casualty to the Premises, or affect the validity of this Lease

(“**Unavoidable Delays**”). City and Tenant acknowledge that during such construction, the Governmental Program may be interrupted as is reasonably necessary for orderly and safe construction to occur, provided that the Governmental Program shall resume immediately after the Completion Date, subject to Unavoidable Delays.

29. **Effect of Eminent Domain.**

- a. Effect of Total Condemnation. If the entire Premises shall be appropriated or taken under the power of eminent domain by any public or quasi-public authority, this Lease shall be terminated and all proceeds shall be payable in the same manner as if the Premises were sold pursuant to Section 27 above.
- b. Effect of Partial Condemnation. If a portion of the Premises shall be so appropriated or taken to an extent that Tenant can no longer operate the Governmental Program, then Tenant shall have the right to give City written notice of the right to treat the partial condemnation as a sale pursuant to Section 27 above within one hundred twenty (120) days after such portion of the Premises has been so appropriated or taken. In that event, this Lease shall be terminated and the proceeds of the condemnation shall be applied as if the condemned portion of the Premises were sold in accordance with Section 27 above.
- c. In the event of partial taking in which Tenant elects to continue this Lease in the Premises, this Lease shall continue in full force as to the part not taken, and the condemnation award for the Premises shall be applied first to restore the remaining portion of the Premises to a configuration and condition so that the Premises can be used for the Governmental Program (with the condemnation proceeds to be held by a mutually agreeable escrow agent in escrow for such restoration to be disbursed in accordance with standard commercial construction conditions customarily required by institutional lenders), and, to the extent of any remaining proceeds, as if the condemned portion of the Premises were sold in accordance with Section 27 above.
- d. None of the foregoing provisions shall preclude Tenant from making a separate claim against the condemning authority for the value of any trade fixtures, furniture, and equipment taken by said condemning authority and its relocation expenses provided such claim does not diminish or impair the award with respect to the Premises.

30. **Damage to and Destruction of Buildings or Improvements.**

- a. In case of insubstantial damage to or destruction to an Improvement, City shall at its own expense and option promptly repair and restore the same to a condition as good or better than that which existed prior to such damage or destruction as determined by the City’s standards, and City shall have the right to any insurance proceeds to pay the cost of such repair and restoration.

b. In the case of substantial damage to or destruction of an Improvement, City shall at its own expense promptly repair and restore the same to a condition as good or better than that which existed prior to such change or destruction and City shall have the right to any insurance proceeds to pay the cost of such repairs and restoration, unless City, in its judgment, determines that it is inappropriate to rebuild the building or improvements on the Premises, in which case this Lease and Tenant's interest in the Premises shall be terminated and shall have the same effect as if a sale shall have occurred, and the insurance proceeds shall be paid in accordance with the provisions of Section 27 above. City shall give written notice to Tenant of its determination whether or not to rebuild within 180 days of the damage or destruction of the buildings or improvements. If City does not elect to rebuild, this Lease shall terminate as of the date specified in City's notice to Tenant, and all obligations of Tenant shall terminate on that date. No settlement with the insurance company shall be agreed to by City without the prior written consent of the State.

c. For purposes of this Section 30, "**insubstantial damage**" is defined as any damage or destruction that is reasonably expected to cost less than \$675,000 to restore, and "**substantial damage**" is defined as any damage or destruction that is reasonably expected to cost \$675,000 or more to restore as reasonably determined by the City.

d. Tenant shall not be obligated to operate the Governmental Program on the Premises from the date of damage or destruction of the buildings or improvements until repair or reconstruction of the buildings or improvements on the Premises is complete.

31. Compliance With G.O. Compliance Legislation and the Commissioner's Order.

a. Tenant acknowledges and agrees that the Premises are "**state bond financed property**", as such term is used in the G.O. Compliance Legislation and Commissioner's Order, and that therefore, the provisions contained in such statute and Order apply to the Premises and this Lease.

b. City and Tenant acknowledge and agree that City will not receive any money from Tenant pursuant to this Lease, and as a result thereof the Commissioner of MMB does not reasonably expect to receive any monies as contemplated by Section 4.02, paragraph (f) of the Commissioner's Order, and therefore the provisions of Section 4.05 of the Commissioner's Order do not apply.

32. Grant Agreement. Whenever there shall exist a conflict between the provisions of this Lease, which may be amended from time to time pursuant to § 21, and the Grant Agreement, the Grant Agreement shall prevail. City shall not amend or otherwise modify the Grant Agreement without the prior written consent of Tenant, which consent will not be unreasonably withheld or delayed. City agrees to comply with all terms and conditions of the Grant Agreement (unless City's failure to comply is the result of Tenant's failure to comply with the terms and conditions of this Lease) and Tenant agrees

to cooperate fully with City in so complying. This Lease requires Tenant to comply with the Grant Agreement and to fulfill certain obligations therein, which are set out more fully herein. City shall not agree to any amendment, modification or waiver of any condition, provision or term of the Grant Agreement unless first approved in writing by Tenant, which approval shall not be unreasonably withheld. City agrees that it will provide Tenant with copies of all notices that are provided to City as the “**Public Entity**” under the Grant Agreement.

33. **Counterparts.** The parties may sign this Lease in counterparts, each of which constitutes an original, but all of which together constitute one instrument.
34. **Electronic Signatures.** The parties agree that the electronic signature of a party to the Lease shall be valid as an original signature of such party and shall be effective to bind such party to this Lease. The parties further agree that any document (including this Lease and any attachments or exhibits to this Lease) containing or to which there is affixed, an electronic signature shall be deemed (i) to be “written” or “in writing,” (ii) to have been signed, and (iii) to constitute a record established and maintained in the ordinary course of business and an original written record when printed from electronic files. For purposes hereof, “electronic signature” also means a manually signed original signature that is then transmitted by an electronic means, including without limitation a faxed version of an original signature or an electronically scanned and transmitted version (e.g. via PDF) of an original signature. Any party’s failure to produce the original signature of any electronically transmitted signature shall not affect the enforceability of this Lease.

IN WITNESS WHEREOF, the parties have set their hands the date first written above.

LOWER PHALEN CREEK PROJECT

CITY OF SAINT PAUL

By:

Mayor

Its: _____

Director of Parks and Recreation

Office of Financial Services

Signed as to Form

City Clerk

Assistant City Attorney

EXHIBIT A
LEASED PREMISES/SITE

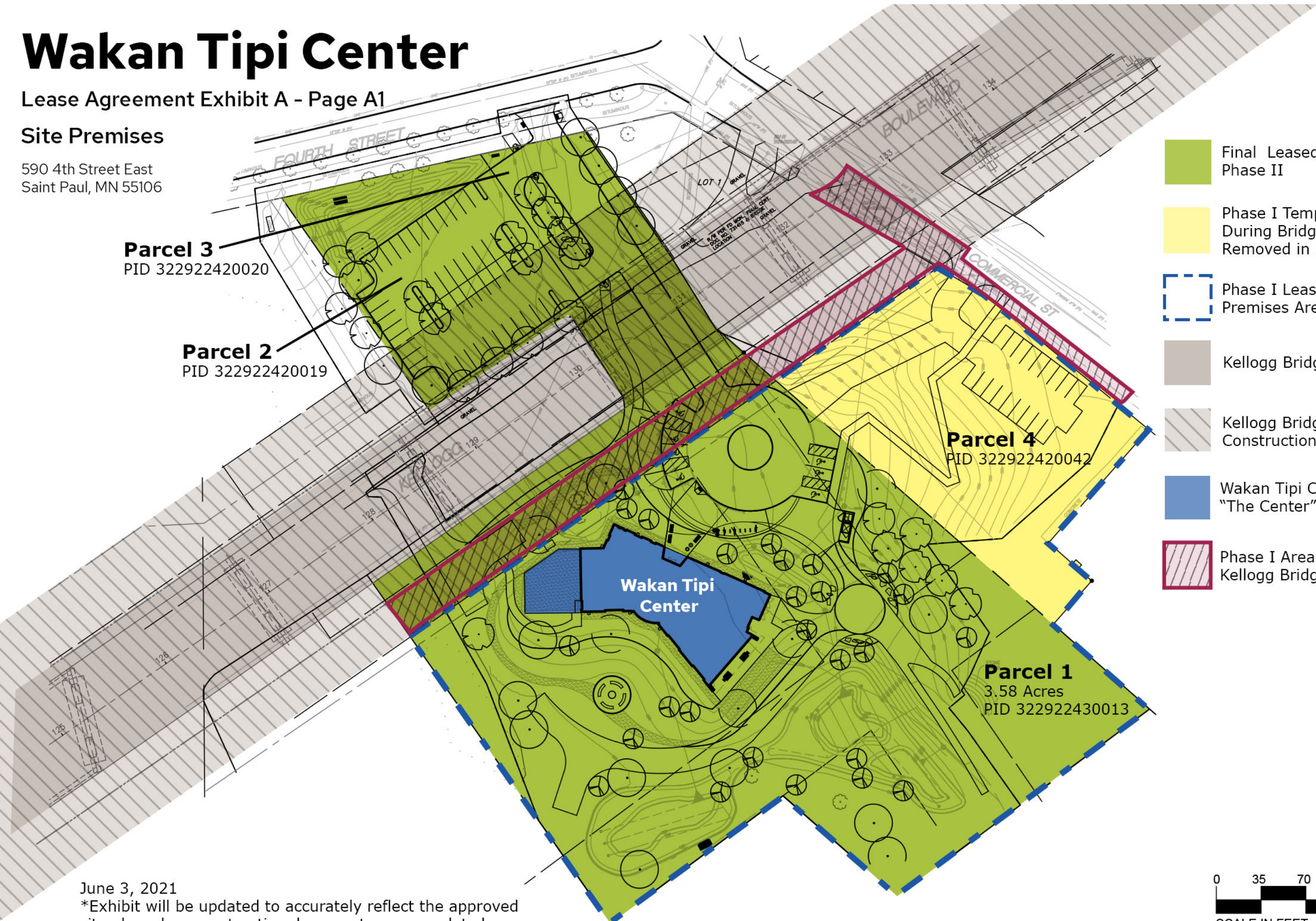
[See attached]

Wakan Tipi Center

Lease Agreement Exhibit A - Page A1

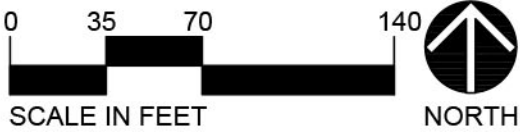
Site Premises

590 4th Street East
Saint Paul, MN 55106



- Final Leased Site Premises Phase II
- Phase I Temporary Area During Bridge Construction, Removed in Phase II
- Phase I Leased Site Premises Area
- Kellogg Bridge Right of Way
- Kellogg Bridge Construction Easement
- Wakan Tipi Center "The Center"
- Phase I Area prior to Kellogg Bridge Construction

June 3, 2021
*Exhibit will be updated to accurately reflect the approved site plan when construction documents are completed



Wakan Tipi Center Parcels – Exhibit A Page A2

Parcel 1:

3.58 acres part of PID 322922430013

This parcel will be used for all phases of the project (subject to Kellogg Bridge construction easement).

Legal description for the 3.58 acres:

That part of Blocks 40, 41, 42 and 43, Lyman Dayton's Addition to the City of St. Paul, according to the recorded plat thereof, Ramsey County, Minnesota, and that part of vacated Canal Street and vacated Conway Street, described as commencing at the southwest corner of the Southeast Quarter of Section 32, Township 29, Range 22, Ramsey County, Minnesota; thence on an assumed bearing of North 00 degrees 23 minutes 46 second West, along the west line of said Southeast Quarter of Section 32, a distance of 1302.18 feet to the northwesterly line of said Block 41; thence North 55 degrees 01 minute 40 seconds East along said northwesterly line of Block 41 a distance of 158.25 feet to the point of beginning of land to be described; thence continuing North 55 degrees 01 minute 40 seconds East along said northwesterly line of Block 41 and its northeasterly extension 340.00 feet to the northwesterly extension of the southwesterly line of Lot 1, Block 1, Commercial Street Addition, according to the recorded plat thereof; thence South 48 degrees 43 minutes 51 seconds East along said northwesterly extension of the southwesterly line of Lot 1 and along said southwesterly line of Lot 1 and Lot 2, a distance of 456.75 feet; thence South 53 degrees 24 minutes 19 seconds West 249.53 feet; thence North 48 degrees 43 minutes 51 seconds West 122.60 feet to the southeasterly line of vacated Conway Street; thence South 54 degrees 33 minutes 05 seconds West along the said southeasterly line of vacated Conway Street and its southwesterly extension 170.05 feet; thence North 34 degrees 58 minutes 20 seconds West 333.04 feet to the point of beginning.

Parcel 2:

PID 322922420019

This parcel will be used as a temporary construction easement area during Kellogg Bridge reconstruction and will remain as cycle paths prior to Bridge work. Utilities can be installed in this parcel prior to Kellogg Bridge reconstruction, subject to City approval. The permanent parking lot and access road will be built on Parcel 2 in phase II after Kellogg Bridge reconstruction.

Parcel 3:

PID 322922420020

This parcel will be used as a temporary construction easement area during Kellogg Bridge reconstruction and will remain as the Bruce Vento Nature Sanctuary parking lot prior to Bridge work. Utilities can be installed in this parcel prior to Kellogg Bridge reconstruction, subject to City approval. The permanent parking lot and access road will be built on Parcel 3 in phase II after Kellogg Bridge reconstruction.

Parcel 4:

PID 322922420042

This parcel will be used prior to and during the Kellogg Bridge reconstruction as a temporary parking lot and temporary access road (subject to Kellogg Bridge temporary construction easement). After the Kellogg Bridge reconstruction the temporary parking lot and access road will be removed and Parcels 2 and 3 will be used for parking and access.

EXHIBIT B

LPCP LANDSCAPING PLAN AND AREA

MAINTENANCE RESPONSIBILITIES OF CITY AND LPCP

[See attached]

Wakan Tipi Center
Lease Agreement Exhibit B
LANDSCAPING & MAINTENANCE RESPONSIBILITIES

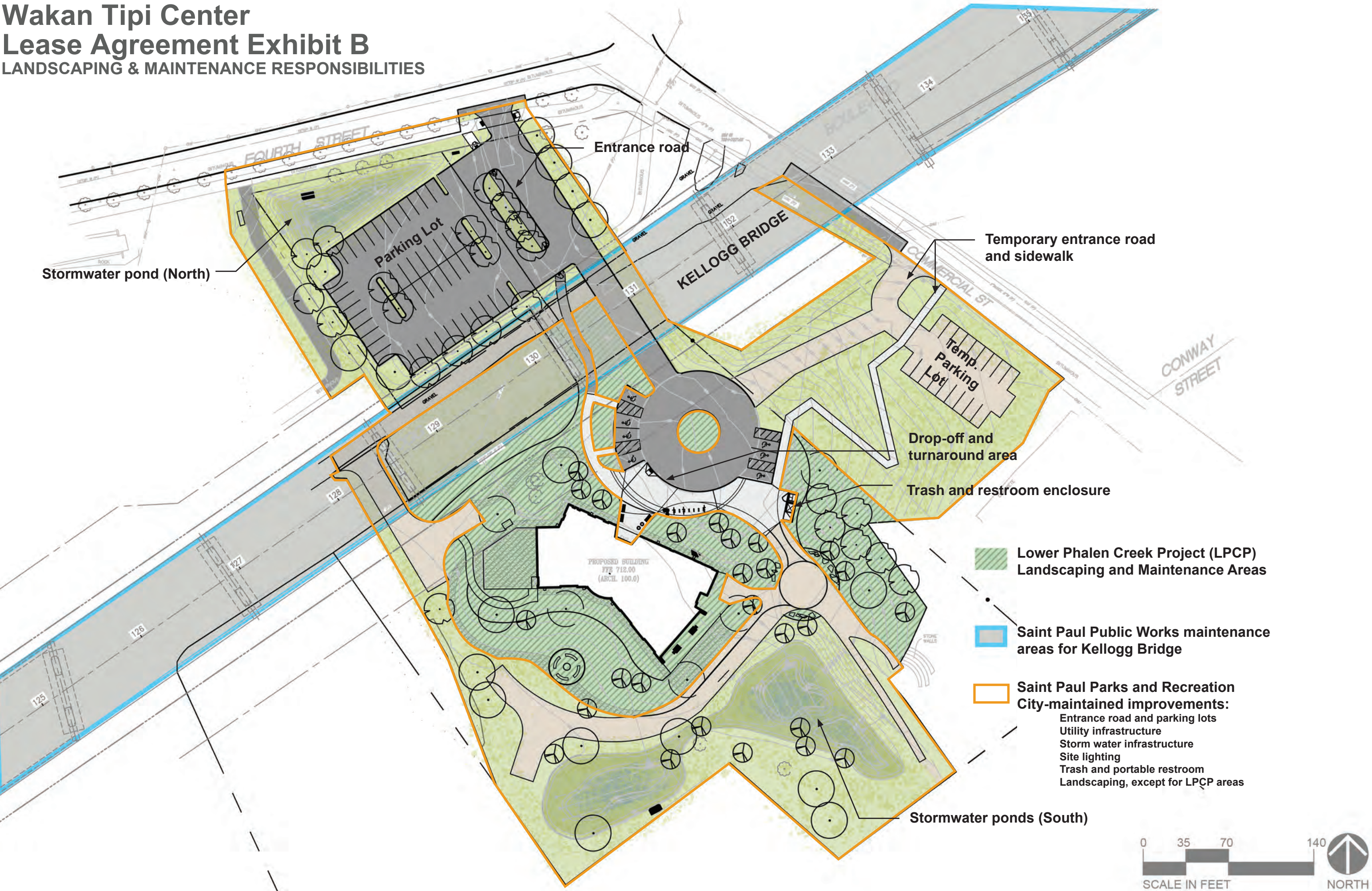


EXHIBIT C
WAKAN TIPI CENTER
SOURCES OF PROJECT FUNDS

<u>SOURCES OF PROJECT FUNDS</u>	<u>AMOUNT</u>	<u>PERCENTAGE ALLOCATION</u>
Lower Phalen Creek Project	\$4,479,026	51.9%
State of Minnesota	\$4,000,000	46.4%
City of Saint Paul	<u>\$ 150,000</u>	<u>1.7%</u>
	\$8,629,026	100.00%

EXHIBIT D
WAKAN TIPI CENTER
CONTRIBUTIONS OF CITY AND LOWER PHALEN CREEK PROJECT

<u>SOURCES OF PROJECT FUNDS</u>	<u>AMOUNT</u>	<u>PERCENTAGE ALLOCATION</u>
Lower Phalen Creek Project	\$4,479,026	96.8%
City of Saint Paul	<u>\$ 150,000</u>	<u>3.2%</u>
	\$4,629,026	100.00%

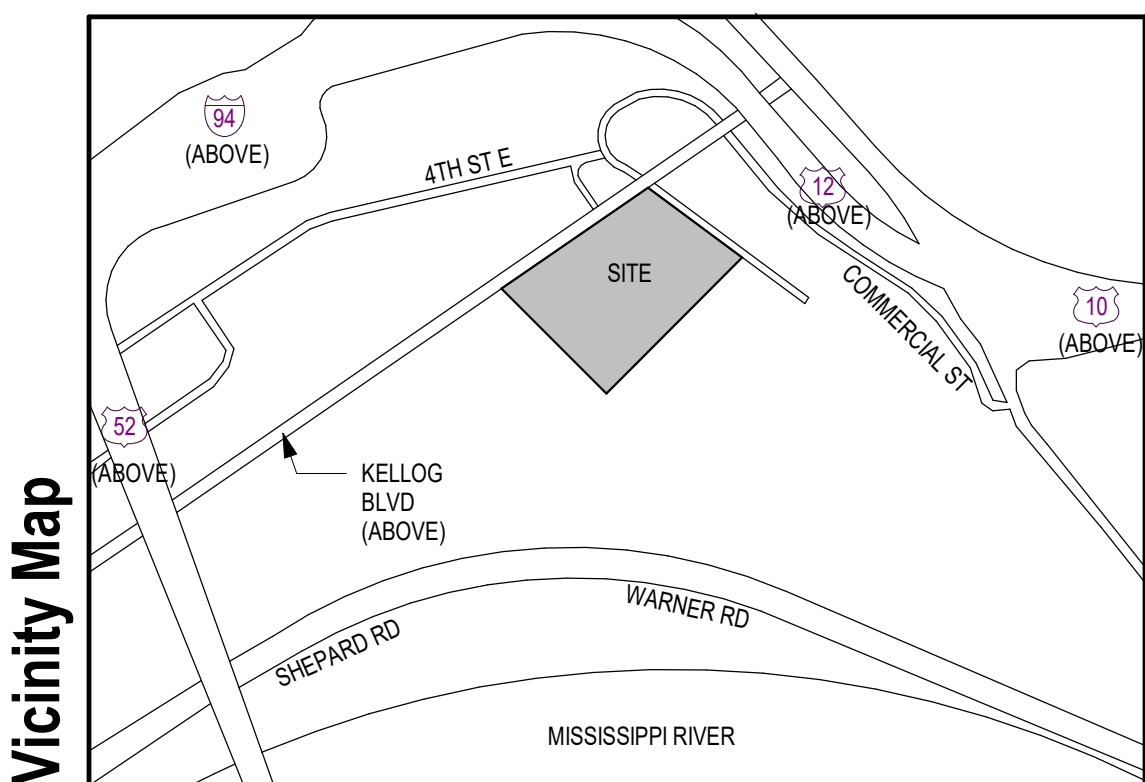
EXHIBIT E
CONSTRUCTION PLANS FOR CENTER



Project Image

Wakán Tipi Center

590 4th St
Saint Paul, MN 55106

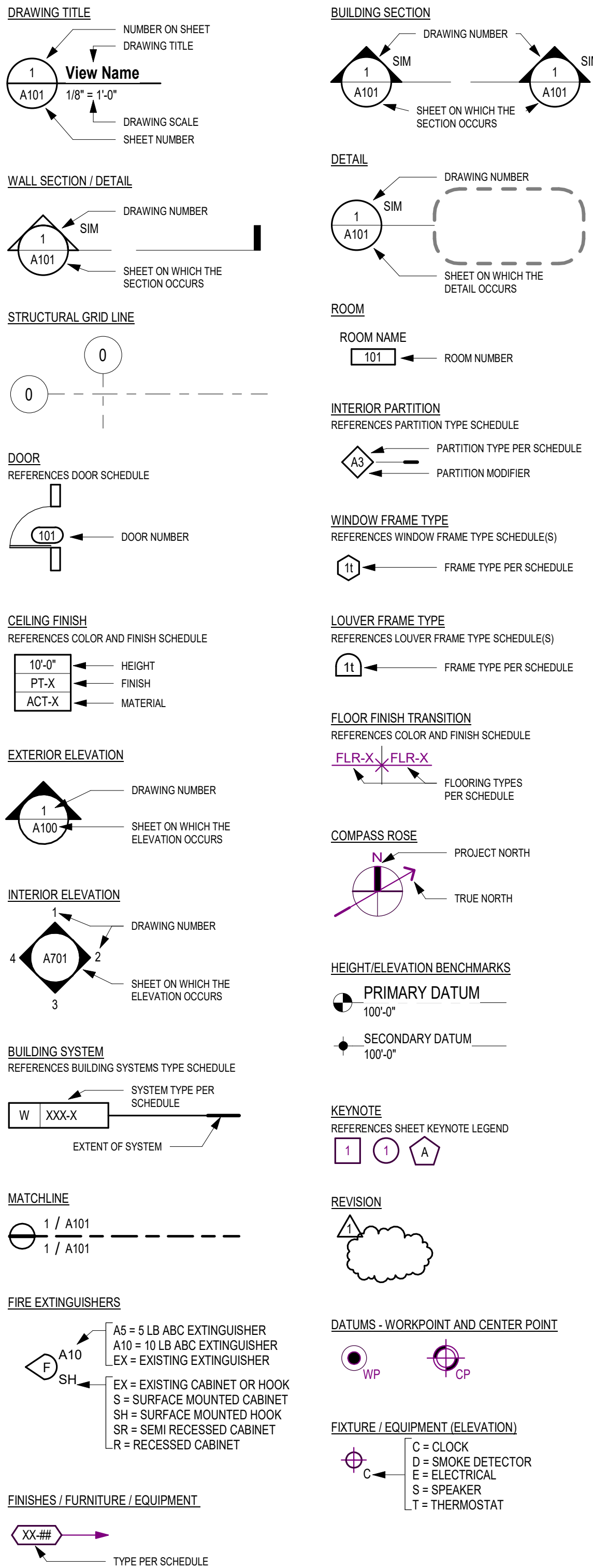


Vicinity Map

Contacts

Owner		Owner Representative		Architect of Record	
Name:	Lower Phalen Creek Project	Name:	Kahn Solutions Group LLC	Name:	Cunningham Group Architecture
Contact:	Executive Director & Wakán Tipi Center Director Maggie Lorenz	Contact:	Mark Kahn, Principal Mary Kay Palmer, Principal	Contact:	Aaron Regla Breton, Assoc. AIA Eric Lagerquist, AIA
Address:	804 Margaret Street St. Paul, MN 55106	Address:	3435 Washington Drive West Suite 105 Eagan, MN 55122	Address:	Saint Anthony Main 201 Main Street SE, Suite 325 Minneapolis, MN 55414
Phone:	(651) 370.2106	Phone:	(651) 440.6050	Phone:	(651) 248.0593
FAX:		FAX:		FAX:	(612) 540.6154
E-Mail:	mlorenz@lowerphalencreek.org	E-Mail:	mark.kahn@kahnsolutions.com	E-Mail:	abreton@cunningham.com
Owner		Design Architect		Landscape Design	
Name:	City of Saint Paul	Name:	Full Circle Indigenous Planning	Name:	City of Saint Paul
Contact:	Department of Parks and Recreation Christopher Stark	Contact:	Founding Principal, CEO Sam Obeleson, AIA, AIA	Contact:	Mary Norton
Address:	25 West 4th Street CHA 400 Saint Paul, MN 55102	Address:		Address:	400 City Hall Annex 25 West 4th Street Saint Paul, MN 55102
Phone:	(651) 266.6419	Phone:	(612) 819.8968	Phone:	(651) 266.6407
FAX:		FAX:		FAX:	
E-Mail:	christopher.stark@ci.stpaul.mn.us	E-Mail:	sam.obeleson@fullcircleplanning.com	E-Mail:	mary.norton@ci.stpaul.mn.us

Graphic Symbols



Abbreviations

AB AIR BARRIER AC ACCESSORY ACA ACOUSTICAL CEILING ACCESSORY ACG ACOUSTICAL CEILING GRID ACP ACOUSTICAL CEILING PANEL ACR ACRYLIC ACT ACOUSTICAL CEILING TILE ADA AMERICANS WITH DISABILITIES ACT ADH ADHESIVE AF ACCESS FLOOR AFF ABOVE FINISHED FLOOR ALT ALTERNATIVE / ALTERNATE ALUM ALUMINUM ARCH ARCHITECT ART ARTWORK AWP ACOUSTICAL WALL PANEL AWT ACOUSTICAL WALL TREATMENT	BLKG BLOCKING BO() BOTTOM OF: DECK, BEAM, STEEL BRG BEARING BRK BRICK CB CHALK BOARD CC COLUMN COVER CCF COLUMN COVER FINISH CCT CUBICLE CURTAIN CF CUSTOM FABRICATION CF/OI CONTRACTOR FURNISHED / OWNER INSTALLED CFF CONCRETE FLOOR FINISH CG CORNER GUARD CGA CUNNINGHAM GROUP ARCHITECTURE, INC. CK CONTROL JOINT CK CORK CL CENTER LINE CLR CLEARANCE CMP COMPOSITE METAL PANEL CMU CONCRETE MASONRY UNIT CONC CONCRETE CONT CONTINUOUS / CONTINUE CP CEMENT PLASTER CPT CARPET TILE OR BROADLOOM CPTB CARPET BASE CT CERAMIC / PORCELAIN TILE CTB CERAMIC TILE BASE DEC DECORATIVE CONCRETE DF DRINKING FOUNTAIN DIA DIAMETER DIV DIVISION DN DOWN DRP DRAPERY/CURTAINS DWGS DRAWINGS DWP DECORATIVE WALL PANEL	OC ON CENTER(S) OD OUTSIDE DIAMETER OF/OI OWNER FURNISHED / CONTRACTOR INSTALLED OF/OI OWNER FURNISHED / OWNER INSTALLED OFLR OVERFLOW ROOF DRAIN OFS OVERFLOW SCUPPER OHT OVERHEAD OPNG OPENING OZ OUNCE P-FIXT PLUMBING FIXTURE PARTB PARTICLEBOARD PC PRECAST PL PLATE PLAM PLASTIC LAMINATE PLS PLASTER PLY PLYWOOD PME PATCH TO MATCH EXISTING PNL PANEL PREFIN PREFINISHED PRT PRESERVATIVE PRV POWER ROOF VENTILATOR (PT PAINTED) PT EXT EXTERIOR PAINT PV PLUMBING VENT	HB HOSE BIBB HDBD HARDBOARD HDWD HARD WOOD HDWR HARDWARE HM HOLLOW METAL HSS HOLLOW STEEL SECTION ID INSIDE DIAMETER INSUL INSULATION INT INTERIOR L-FIXT LIGHT FIXTURE LAV LAVATORY LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICLE LMC LINEAR METAL CEILING LWC LINEAR WOOD CEILING MAS MASONRY MAT CARPET/WALK-OFF MAT MATL MATERIAL MAX MAXIMUM MB MARKER BOARD MDF MEDIUM DENSITY FIBERBOARD MECH MECHANICAL MG METAL GRATE MIN MINIMUM MIR MIRROR(ED) MO MASONRY OPENING MTD MOUNTED MTL METAL MTLT METAL TRIM NA NOT APPLICABLE NIC NOT IN CONTRACT NOM NOMINAL NTE NOT TO SCALE OC ON CENTER(S) OD OUTSIDE DIAMETER OF/OI OWNER FURNISHED / CONTRACTOR INSTALLED OF/OI OWNER FURNISHED / OWNER INSTALLED OFLR OVERFLOW ROOF DRAIN OFS OVERFLOW SCUPPER OHT OVERHEAD OPNG OPENING OZ OUNCE P-FIXT PLUMBING FIXTURE PARTB PARTICLEBOARD PC PRECAST PL PLATE PLAM PLASTIC LAMINATE PLS PLASTER PLY PLYWOOD PME PATCH TO MATCH EXISTING PNL PANEL PREFIN PREFINISHED PRT PRESERVATIVE PRV POWER ROOF VENTILATOR (PT PAINTED) PT EXT EXTERIOR PAINT PV PLUMBING VENT	SPT SPECIAL PAINT SS STAINLESS STEEL SSF SOLID SURFACE ST STAIN STN STONE STNB STONE BASE STNF STONE FLOORING STNT STONE TILE STNV STONE VENEER SUSP SUSPENDED SV SHEET VINYL SWF SPECIALTY WALL FINISH SYST SYSTEM T TREAD T&G TONGUE AND GROOVE TB TACKBOARD TBL TABLE TERB TERRAZZO BASE TERR TERRAZZO TERT TERRAZZO TILE TFC TEXTURED FINISH CEILING TO() TOP OF: DECK, CONCRETE, BEAM, PARAPET, STEEL, WALL TP TOILET PARTITION TS TRANSITION STRIP TYP TYPICAL UNFIN UNFINISHED UNO UNLESS NOTED OTHERWISE UPH UPHOLSTERY VIF VERIFY IN FIELD VNR VENEER VP VENEER PLASTER VM VAPOR RETARDER VSE VENEER SHELF ELEVATION WB WEATHER BARRIER WC WATER CLOSET WCV WALL COVERING WD WOOD WDB WOOD BASE WDF WOOD FLOORING WDT WOOD TRIM WDV WOOD VENEER WDW WINDOW WP WORK POINT WPT WALL PROTECTION WPT WINDOW TREATMENT XPS EXTRUDED POLYSTYRENE # NUMBER / POUND & AND @ AT
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General Notes

- DRAWINGS SHALL NOT BE SCALED FOR EXACT DIMENSIONS.
- UNLESS NOTED OTHERWISE DIMENSIONS ARE NOMINAL AND ARE TO FINISHED FACE OF STUD WALLS, FACE OF MASONRY OR CONCRETE, AND CENTERLINE OF COLUMNS.
- ALL KEY NOTES ON EACH SHEET MAY NOT NECESSARILY REFER TO ITEMS ON THAT SHEET.
- REFER TO CODE PLANS FOR CODE RELATED INFORMATION INCLUDING RATED WALL LOCATIONS AND TYPES, FIRE WALLS, EXTING. BUILDING AREAS AND CONSTRUCTION TYPE REQUIREMENTS, FIREPROOFING REQUIREMENTS, ETC. SHOULD DISCREPANCIES BE FOUND BETWEEN THE CODE PLANS AND OTHER CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALLIC MATERIALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT GALVANIC ACTION AND RESULTANT CORROSION.
- IN ADDITION TO ANY FIRE EXTINGUISHERS SHOWN IN THESE DRAWINGS, PROVIDE FIRE EXTINGUISHERS AT ALL LOCATIONS REQUIRED BY THE FIRE CODE OFFICIAL. THE SPECIFIC TYPE OF FIRE EXTINGUISHER REQUIRED AT EACH LOCATION SHALL BE AS DIRECTED BY THE FIRE CODE OFFICIAL. FIRE EXTINGUISHER MOUNTING (SURFACE, RECESSED, CABINET, ETC) SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE ARCHITECT.
- INTUMESCENT OR CEMENTITIOUS THERMAL BARRIER IS REQUIRED AT ALL EXPOSED PLASTIC FOAM. TYP. SEE SPECIFICATIONS.
- CHANGES IN THE FLOOR FINISH MATERIALS BETWEEN ROOMS OCCURS AT THE DOOR/OPENING CENTERLINE UNLESS NOTED OTHERWISE.
- ALL WOOD BLOCKING, PLYWOOD AND FIBERGLASS IS TO BE FIRE RETARDANT TREATED.

Project Description

PROJECT DESCRIPTION:	NEW SINGLE STORY OFFICE NATURE AND CULTURAL CENTER BUILDING, INCLUDING ASSEMBLY, GALLERY AND OFFICE
GOVERNING BUILDING CODE:	2020 MINNESOTA BUILDING CODE - BASED ON 2018 IBC
ELECTRICAL CODE:	2020 MINNESOTA - NATIONAL ELECTRIC CODE
PLUMBING CODE:	2015 MINNESOTA PLUMBING CODE
MECHANICAL CODE:	2020 MINNESOTA MECHANICAL AND FUEL GAS CODE
ENERGY CODE:	2020 MINNESOTA ENERGY CODE
FIRE CODE:	2020 MINNESOTA FIRE CODE
ACCESSIBILITY CODE:	2020 MINNESOTA ACCESSIBILITY BUILDING CODE
PRIMARY OCCUPANCY TYPE:	GROUP A3 - ASSEMBLY GROUP B - BUSINESS
BUILDING TYPE:	V B FIRE SPRINKLERS: MONITORED AND FULLY AUTOMATIC FIRE SPRINKLER FIRE ALARM: MONITORED ALARM SYSTEM NUMBER OF STORIES: 1 STORY ABOVE GRADE
BUILDING GROSS AREA:	9,150 GSF
BUILDING OCCUPANT LOAD:	230 OCCUPANTS EXITS: 2 EXIT REQUIRED PER FLOOR, 5 EXIT PROVIDED
CONSTRUCTION MATERIALS:	STRUCTURE: STEEL COLUMNS, JOISTS AND BEAMS, GLUE-LAM BEAM PURLINS, METAL DECK AND CONCRETE FLOOR AND FOUNDATIONS. EXTERIOR ENCLOSURE: COLD FORM METAL FRAMING, ACRYLIC STUCCO AND FIBER CEMENT SIDING

Materials

ALUMINUM	INSULATION - BATT
BRICK	INSULATION - RIGID
CERAMIC TILE / RESILIENT TILE	PARTICLE BOARD
CONCRETE - CAST-IN-PLACE	PLASTER / GROUT
CONCRETE - PRECAST	PLYWOOD
CONCRETE BLOCK	ROUGH LUMBER / WOOD FRAMING
EARTH	WOOD BLOCKING
EXISTING CONDITIONS	SAND / GRANULAR FILL
WOOD - FINISHED	STONE
GLASS	STEEL / STEEL STUD FRAMING
GRAVEL/STONE FILL	TERRAZZO
GYPSUM WALL BOARD	

Sheet Index

CD 90% - TBD	CD 50% - TBD	DD 02/05/21	Sheet Number	Current Revision Date	Sheet Name
Architectural			A711		Finish Plan Enlarged Concrete Design
General					
			O R001		Code Site Plan
			R900		Code Required Signage
			G001		General Information
			G002		Interior Partition Types
			G003		Building Systems
			G090		3D Views
			R002		Code Plan
Civil					
			O C100		Selective Site Demolition and Erosion Control Plan
			O C101		Selective Site Demolition and Erosion Control Plan
			C102		Demolition of Phase 1 Temporary Pavements
			O C200		Grading, Drainage, and Erosion Control Plan
			O C201		Grading, Drainage, and Erosion Control Plan
			O C300		Utility Plan
			O C301		Utility Plan
			O C400		Paving and Geometric Plan
			O C401		Paving and Geometric Plan
			O C500		Civil Details
			O C501		Civil Details
			O C502		Civil Details
			O C600		Storm Water Pollution Prevention Plan
Landscape					
			O L100		Landscape Plan and Details
			O L101		Landscape Plan and Details
			L102		Site Plan Enlargements
			L501		Landscape Details 1
			L502		Landscape Details 2
Architectural					
			A795		Millwork Details
			O A110		Floor Plan
			O A190		Enlarged Floor Plans
			O A200		Roof Plan & Enlarged Roof Plans
			O A300		Exterior Elevations
			O A301		Exterior Elevations
			O A400		Wall Sections
			O A401		Wall Sections
			O A402		Wall Sections
			O A490		Wall Details
			A491		Exterior Detail
			O A600		Door, Frames and Window Types / Details
			O A601		Window Systems
			O A710		Finish Plan
			O A790		Interior Elevations
			O A791		Interior Elevations
			O A792		Interior Elevations
			O A793		Interior Elevations
			O A810		Reflected Ceiling Plan
			O A910		Furniture and Equipment
Structural					
			O S100		Foundation Plan
			O S101		Low Roof Framing
			O S102		Rotunda Roof Framing
			O S103		High Roof Framing
Mechanical					
			O M001		Mechanical Notes, Legends & Abbreviations
			O M101		Geothermal Site Plan
			O M201		First Floor Mechanical Ductwork Plan
			O M301		First Floor Mechanical Piping Plan
			O M302		First Floor Radian In-floor Piping Plan
			O M401		Mechanical Enlarged Views
			O M501		Mechanical Details
			O M601		Mechanical Schedules
			O M701		Mechanical Control Schematics
Plumbing					
			O P001		Plumbing Notes, Legends, & Abbreviations
			O P110		Below Grade Plumbing Plan
			O P121		First Floor Plumbing Plan
			O P501		Plumbing Details
			O P601		Plumbing Schedule
Electrical					
			O E101		Electrical Site Plan Phase 1
			E102		Electrical Site Plan Phase 2
			O E111		First Floor Lighting Plan
			O E121		First Floor Power Plan
			O E131		First Floor Systems Plan
			O E201		Roof Power Plan
			O E401		Electrical Enlarged Views
			O E501		Electrical Details
			O E601		Electrical Schedules
			O E701		One Line Riser Diagram
			O E801		Electrical Panel Schedules

Registration	
Name:	
License No.:	

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of

Signed:

Revisions		
No.	Date	Description

Project Information		
Phase:	90% Construction Set	Date: 04/23/2021
Project No.:	18-0720	PIC / AIC: S Obeleson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

General Information

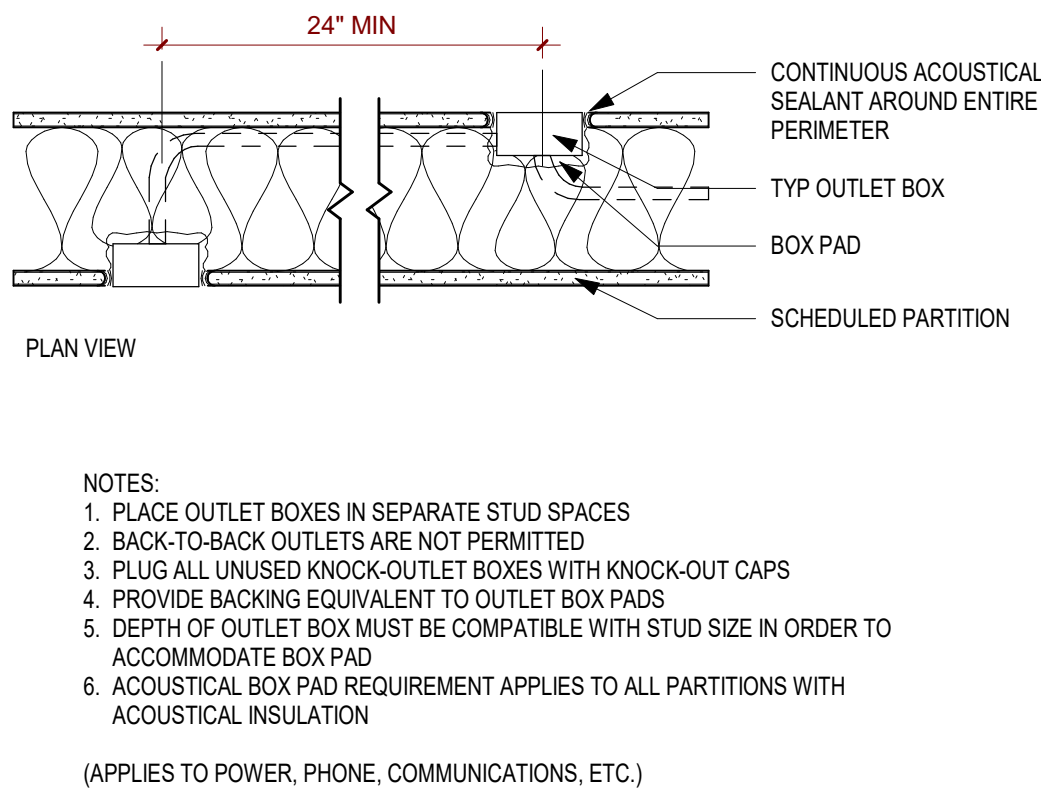
Sheet Number	Current Revision
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G001

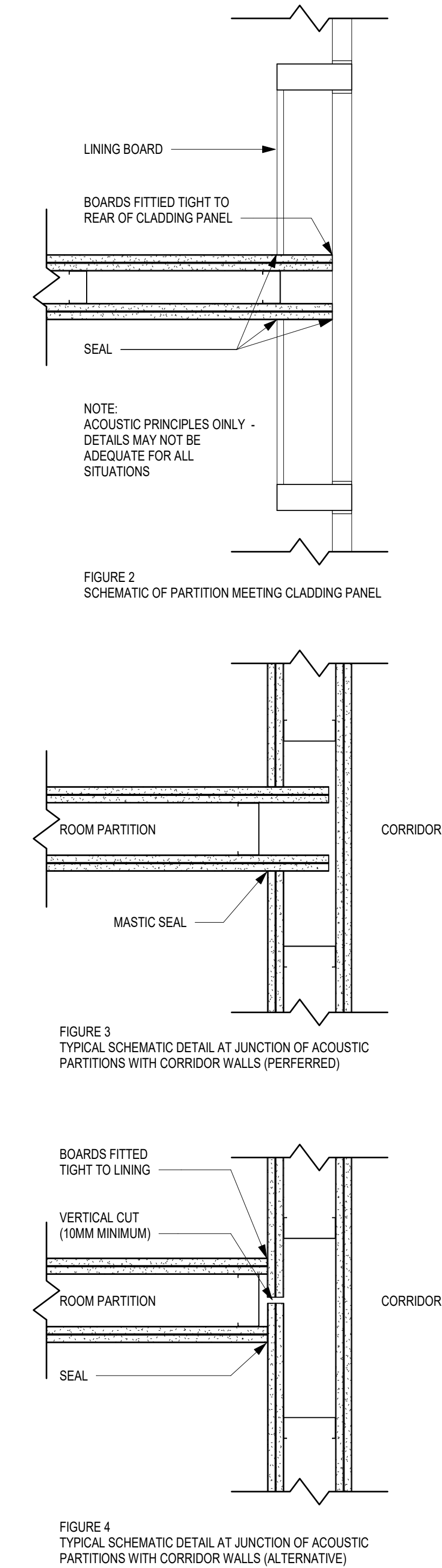
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Cunningham

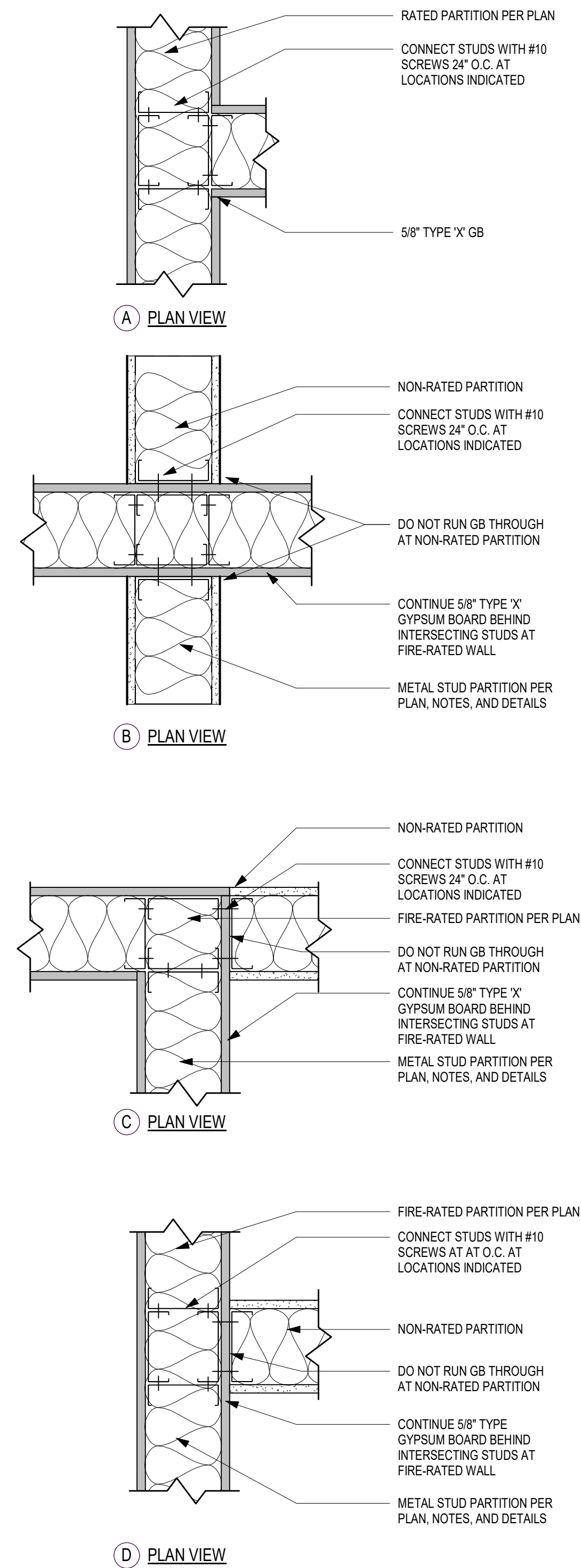
Typical Outlet Box Details



Acoustical Wall Transitions





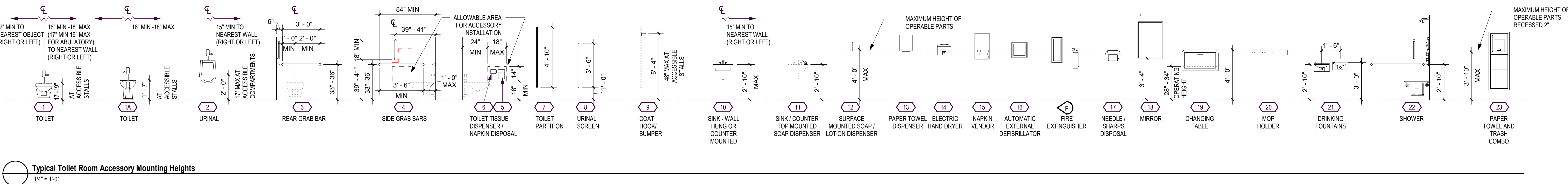
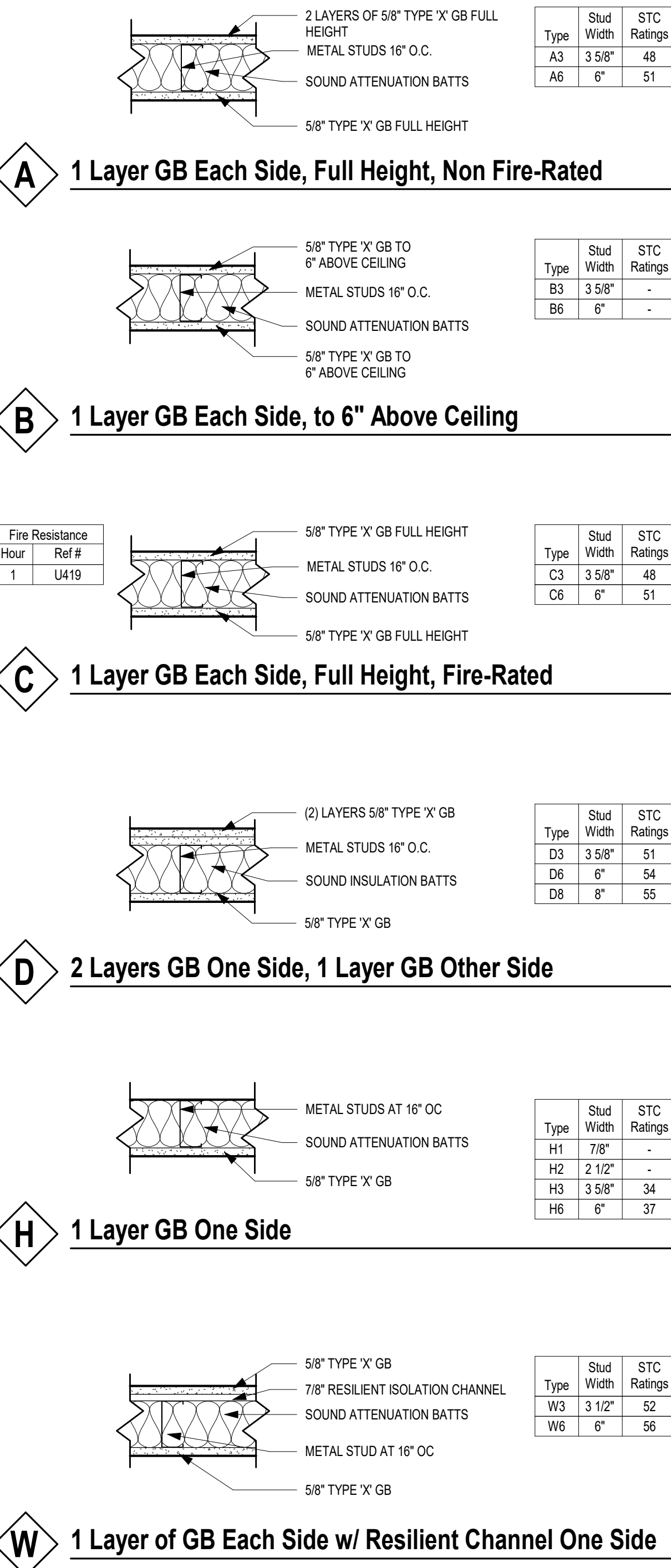
Typical Fire-Rated Wall Connections



Interior Partition Systems

- General Interior Partition Notes
1. ALL PARTITIONS TO EXTEND TO DECK ABOVE UNLESS NOTED OTHERWISE.
 2. ALL PARTITIONS TO BE TYPE 'A3A' UNLESS NOTED OTHERWISE.
 3. FIRE-RATED WALLS ARE TO BE SEALED TO ADJACENT CONSTRUCTION WITH FIRE SAFING.
 4. PROVIDE FIRE BATTS, FIRE SAFING, AND SEALANT ASSEMBLIES AT ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS AS REQUIRED.
 5. FOR STC WALLS PROVIDE CONTINUOUS ACOUSTICAL SEALANT BETWEEN BASE LAYER OF GYPSUM BOARD AT FLOORS AND VERTICALLY AT ENDS OF WALLS. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT TOP AND ENDS OF WALLS WHERE WALLS EXTEND TO DECK.
 6. PROVIDE CEMENTITIOUS TILE BACKER BOARD AT WALL TILE LOCATIONS IN LIEU OF STANDARD GYPSUM BOARD.
 7. PLAN DIMENSIONS ARE TO FINISH FACE UNLESS NOTED OTHERWISE.
 8. PROVIDE STEEL STUD SILL AND HEADERS AT ALL INTERIOR WALL PENETRATIONS FOR CONDUIT AND CABLE TRAYS AS REQUIRED.
 9. BRACE WALLS TO STRUCTURE ABOVE UNO.
 10. STUD DEPTHS, HEIGHTS, AND LIMITS TO BE ENGINEERED BY THE STUD DESIGN ENGINEER.
 11. PROVIDE IN-WALL BLOCKING IN WALLS FOR CABINETS, GRAB BARS, AND OTHER EQUIPMENT.

Symbol Legend		INTERIOR PARTITION GRAPHICS	
ABBREVIATIONS			
REF #	UNDERWRITERS LABORATORY (UL) FIRE RESISTANCE DESIGN NUMBER, U.N.O.	NON-RATED PARTITION	
STC	SOUND TRANSMISSION COEFFICIENT		
INTERIOR PARTITION TAG			
	PARTITION TYPE		
MODIFIED INTERIOR PARTITION TYPE			
	PARTITION TYPE		
	MODIFIER		
MODIFIER LEGEND			
1	EXTEND TO BOTTOM OF SUSPENDED CEILING ABOVE		
A	ACOUSTICAL WALL WITH BATT INSULATION AND SEALANT AT FLOOR AND WALL CORNERS		
X' - X"	PARTIAL HEIGHT PARTITION. SEE FLOOR PLAN FOR PARTITION HEIGHT		

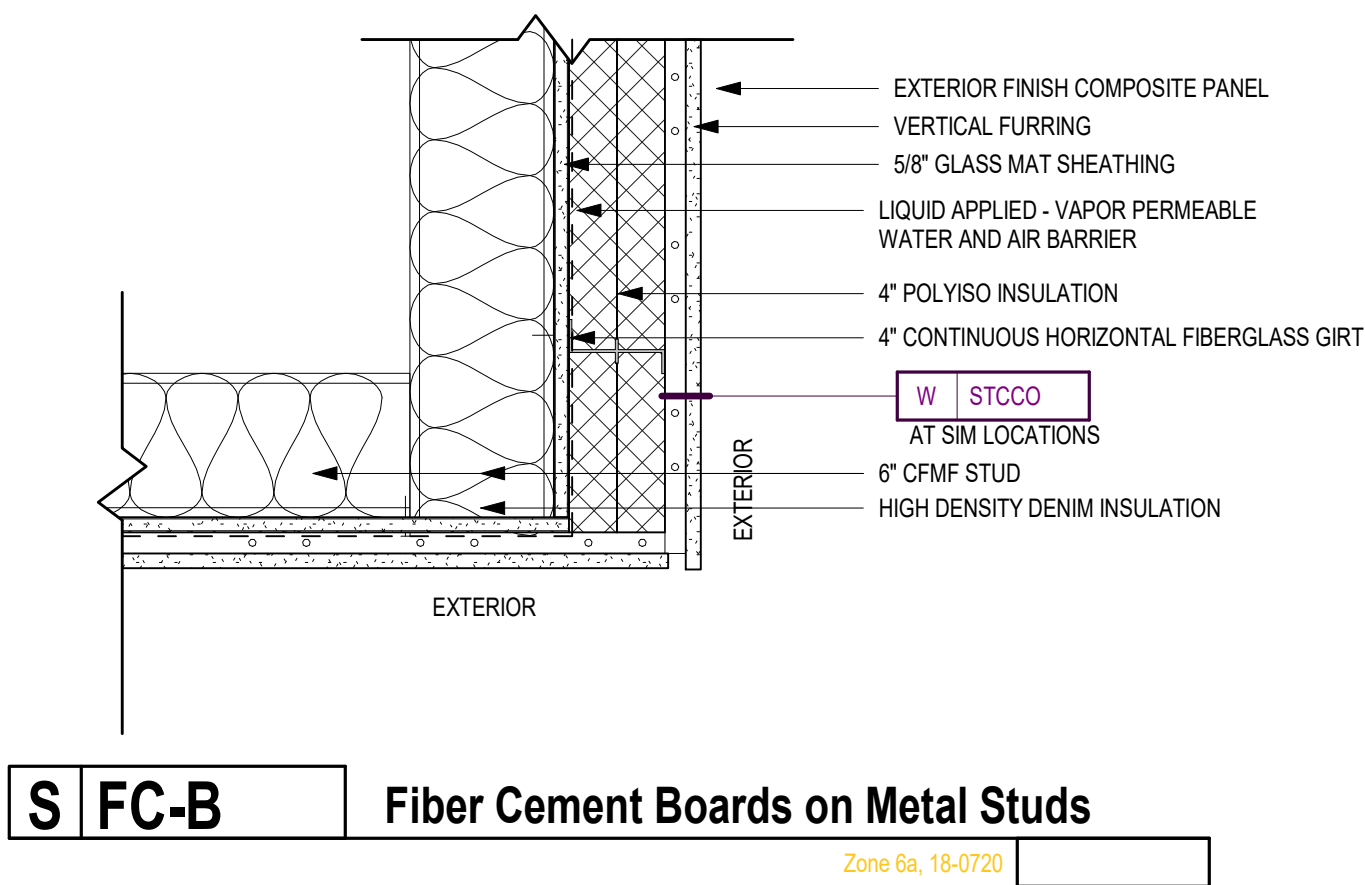
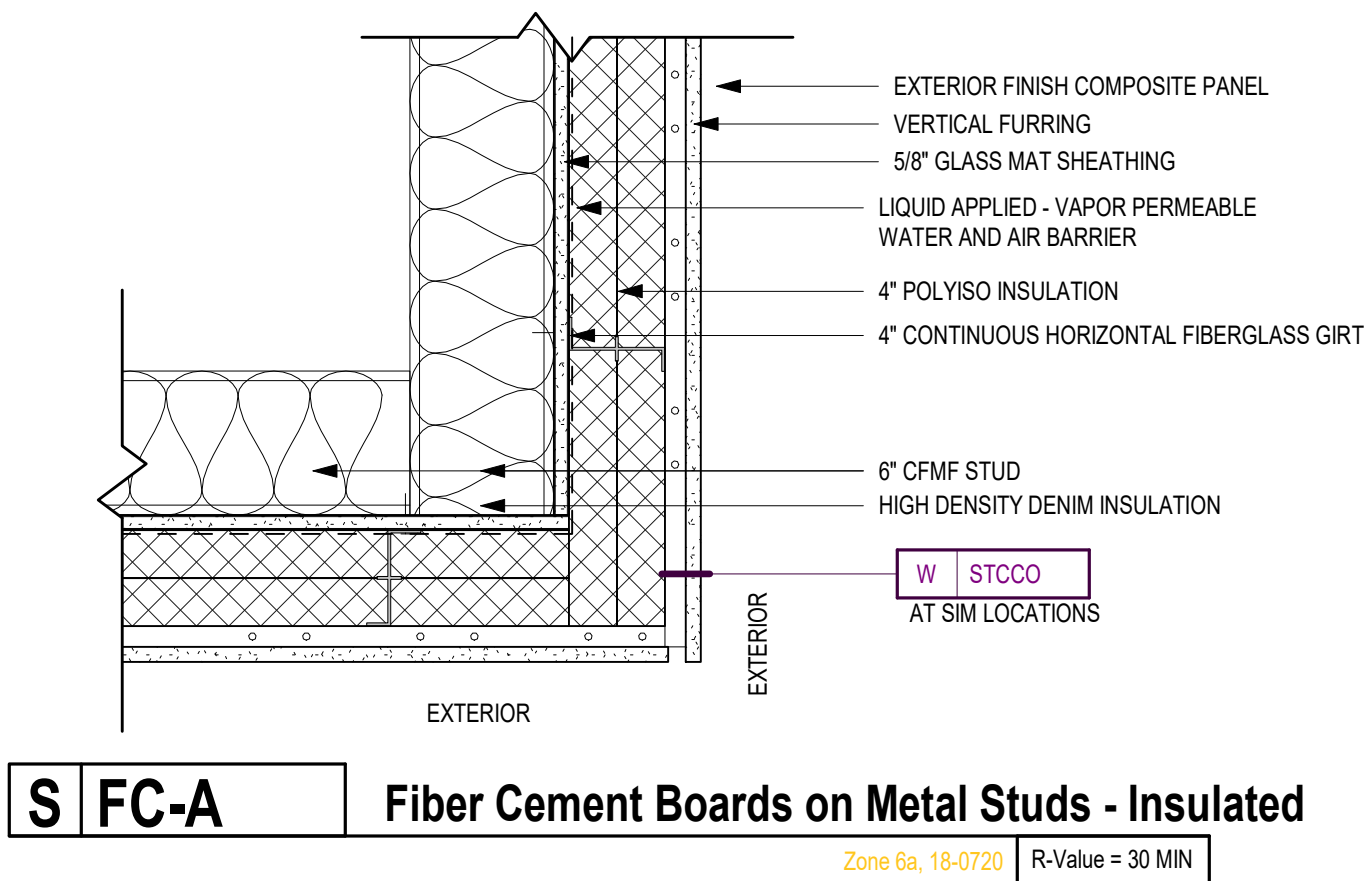


NOTE: AIR INFILTRATION

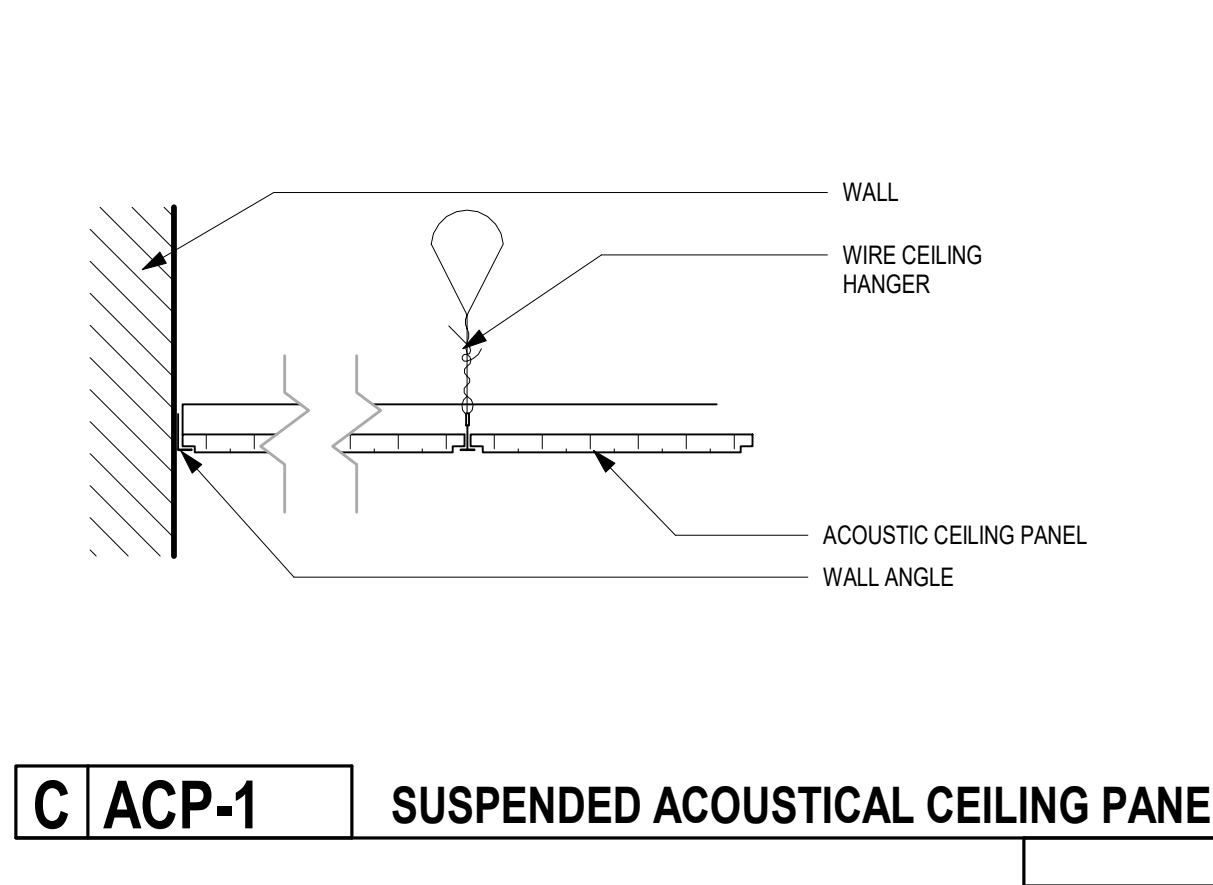
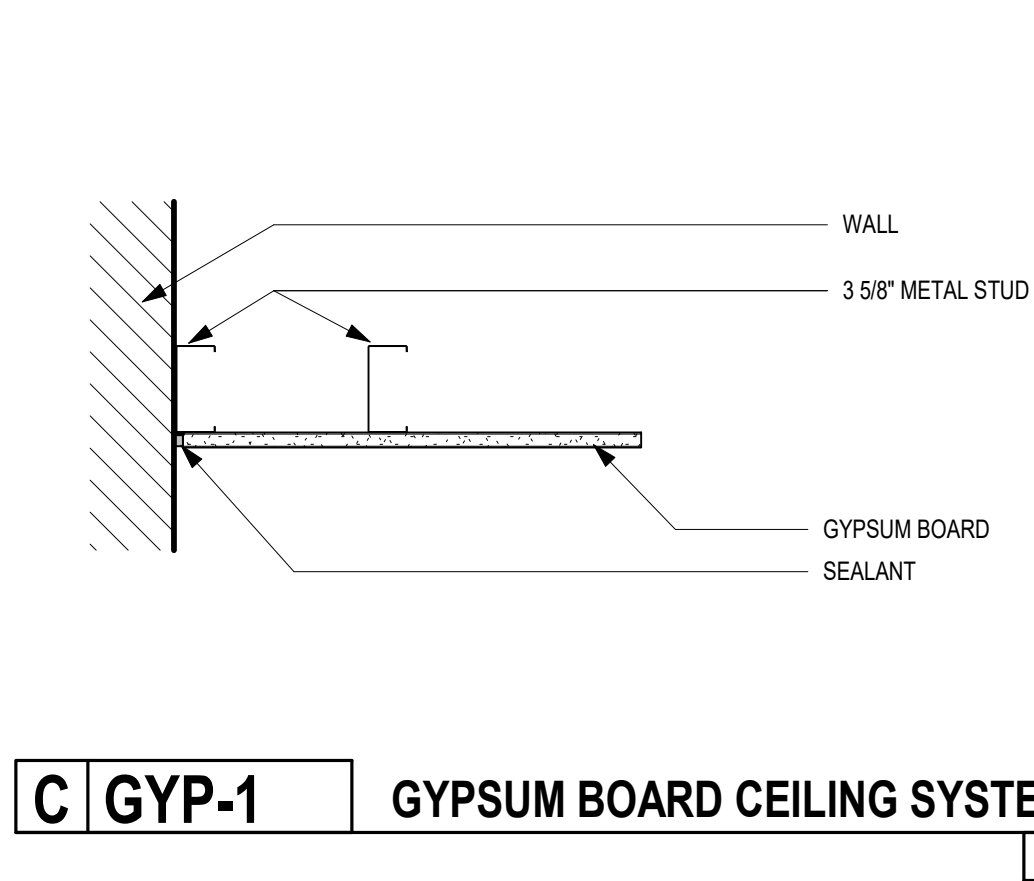
CODE MAXIMUM AIR INFILTRATION IS .25 CFM/SF. FOR ALL OPTIONS WE ARE PROPOSING TO REDUCE THAT QUANTITY TO .05 CFM/SF. TO ENSURE WE MEET THAT REQUIREMENT WE ARE ALSO PROPOSING TO REQUIRE BUILDING ENVELOPE COMMISSIONING. PLEASE PROVIDE COST AND SCHEDULE IMPLICATIONS IF COMMISSIONING IS INCLUDED AS PART OF THE PROJECT.

B3 REQUIRES EITHER A WHOLE BUILDING AIR TIGHTNESS (BLOWER DOOR) OR 3RD PARTY BUILDING ENCLOSURE CONSULTANT - ITEM I2C

Soffit Systems

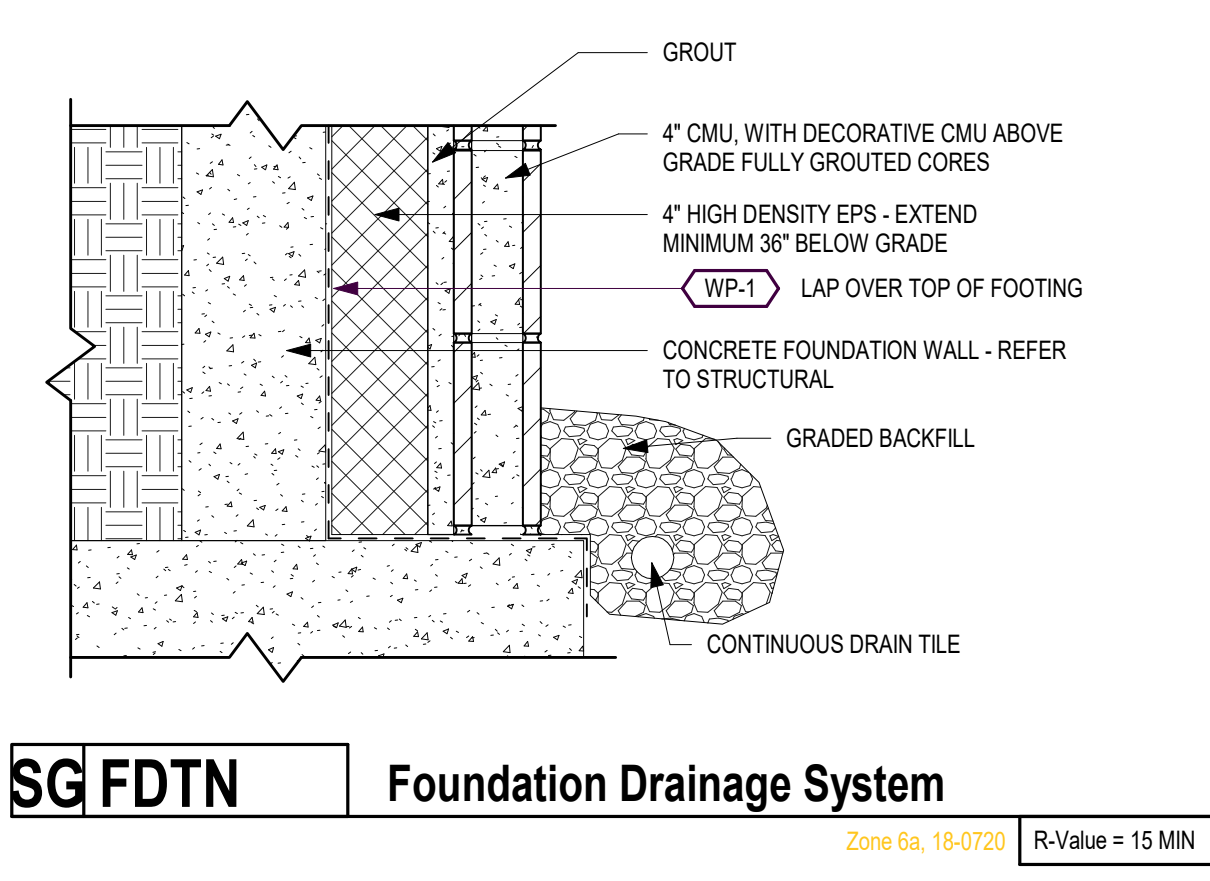


Ceiling Systems

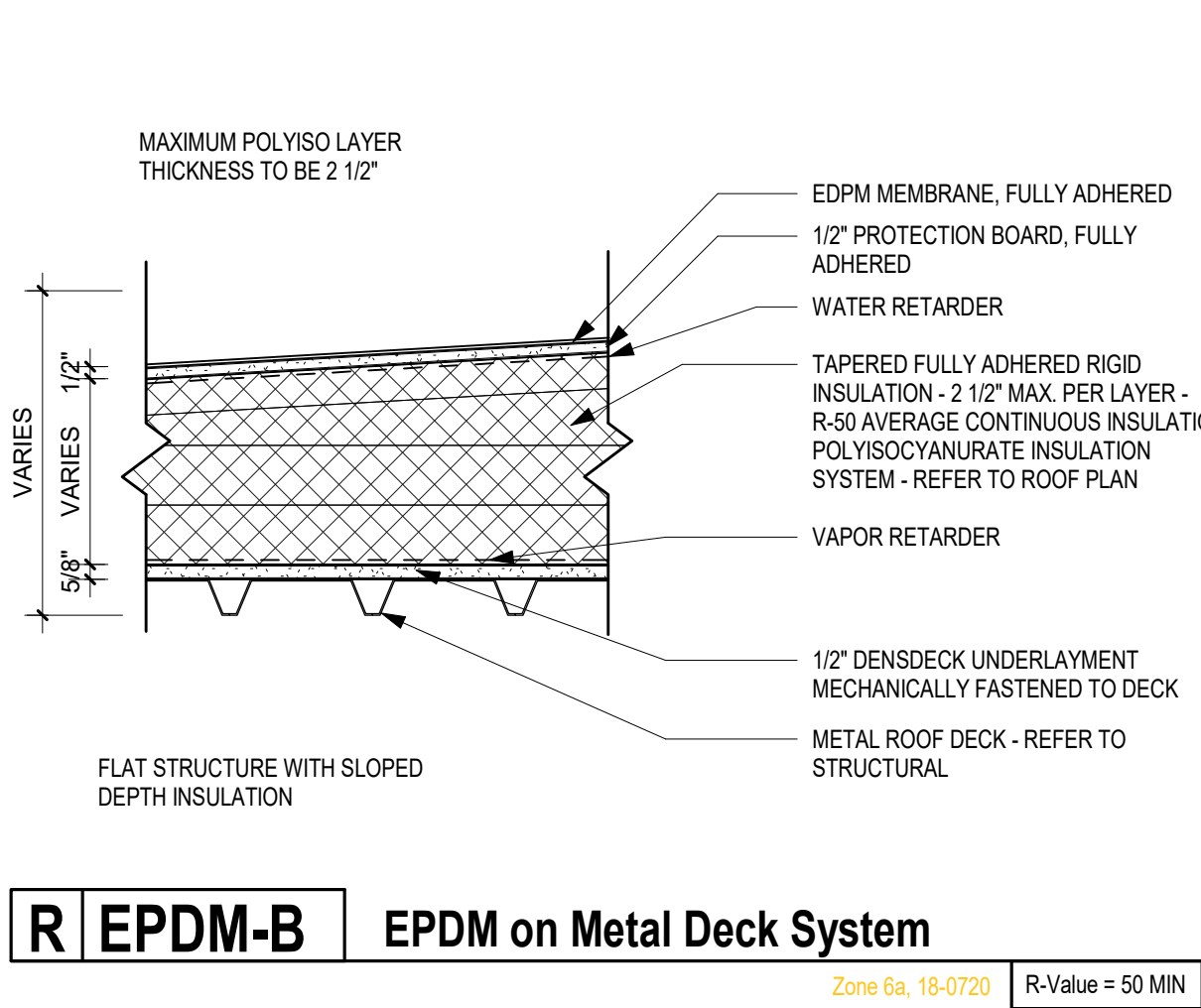
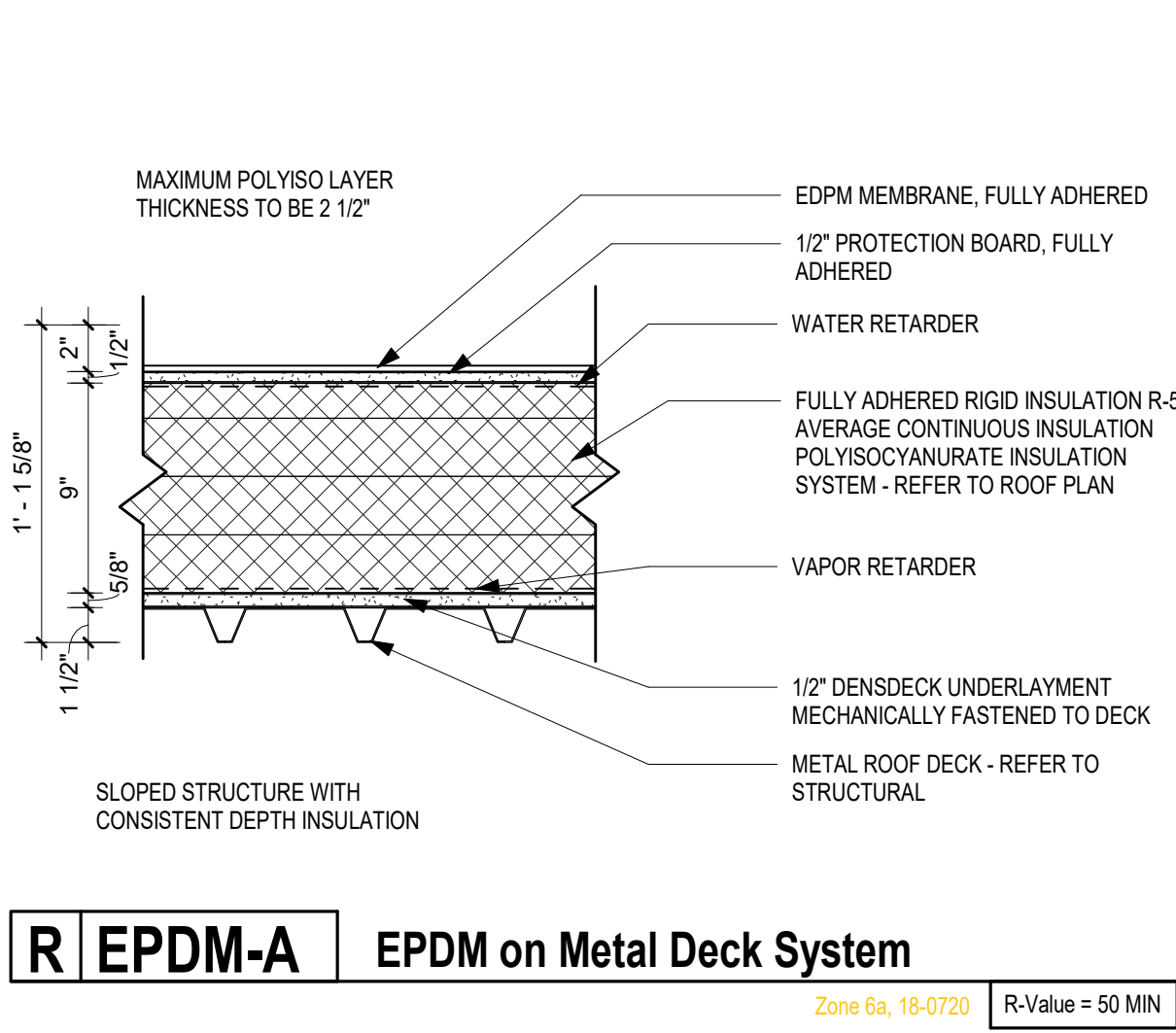


Exterior Ceiling Systems

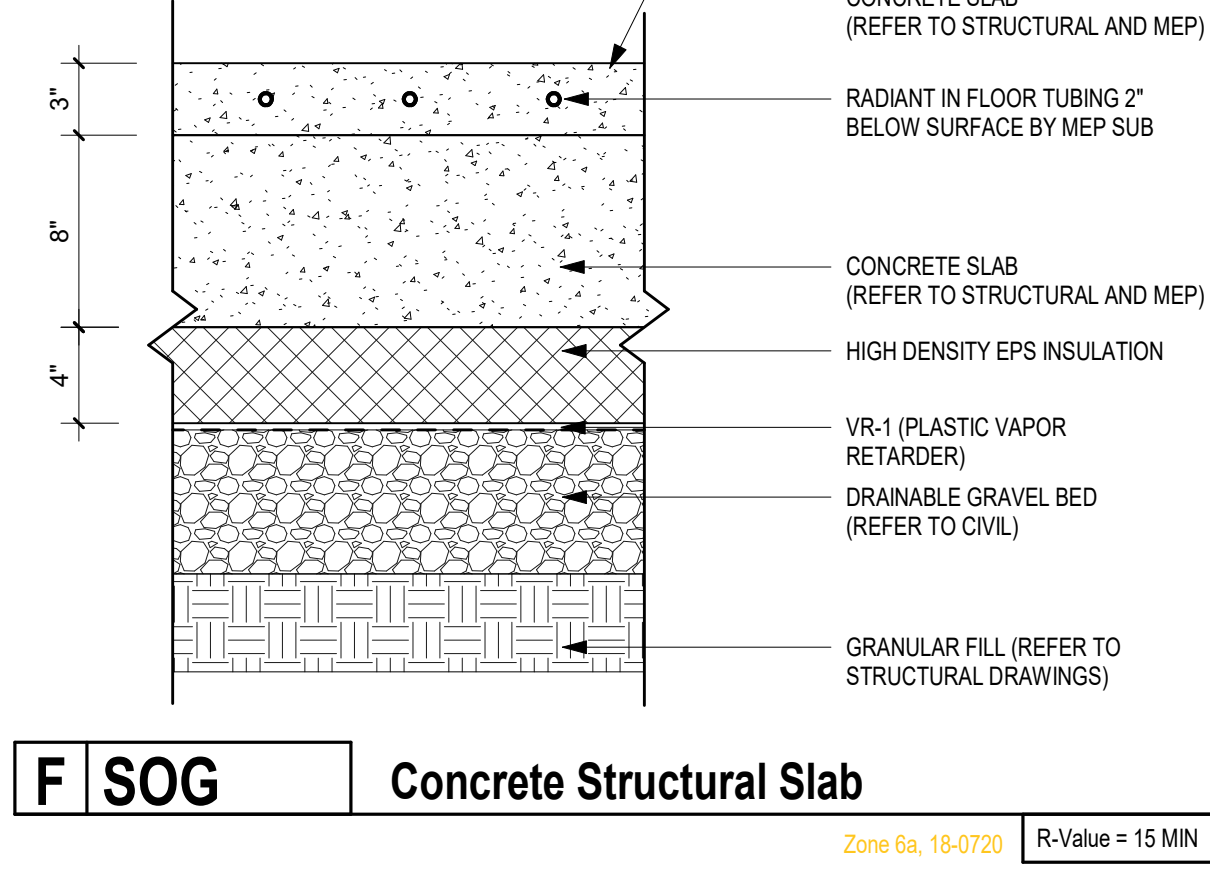
Sub Grade Systems



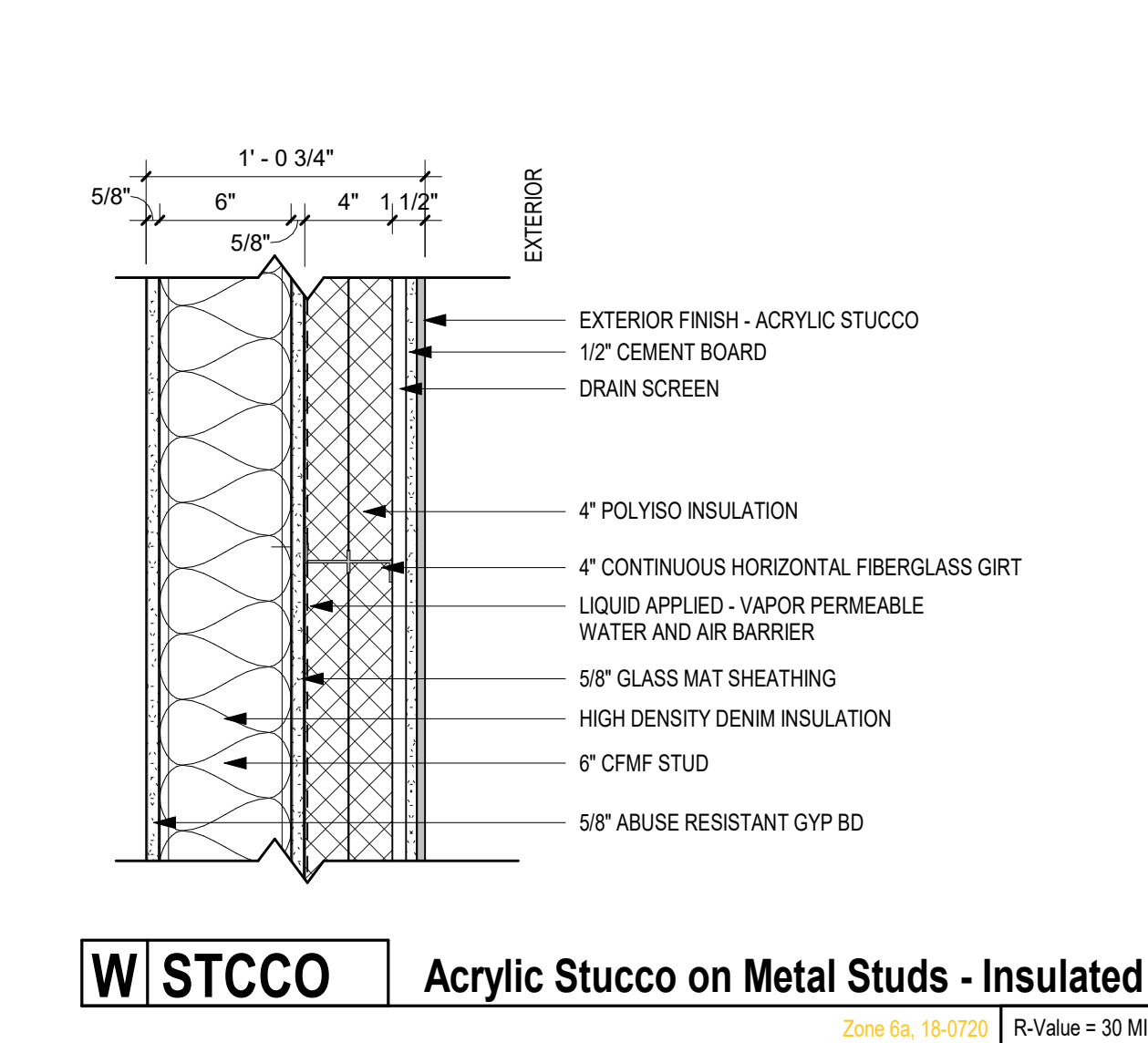
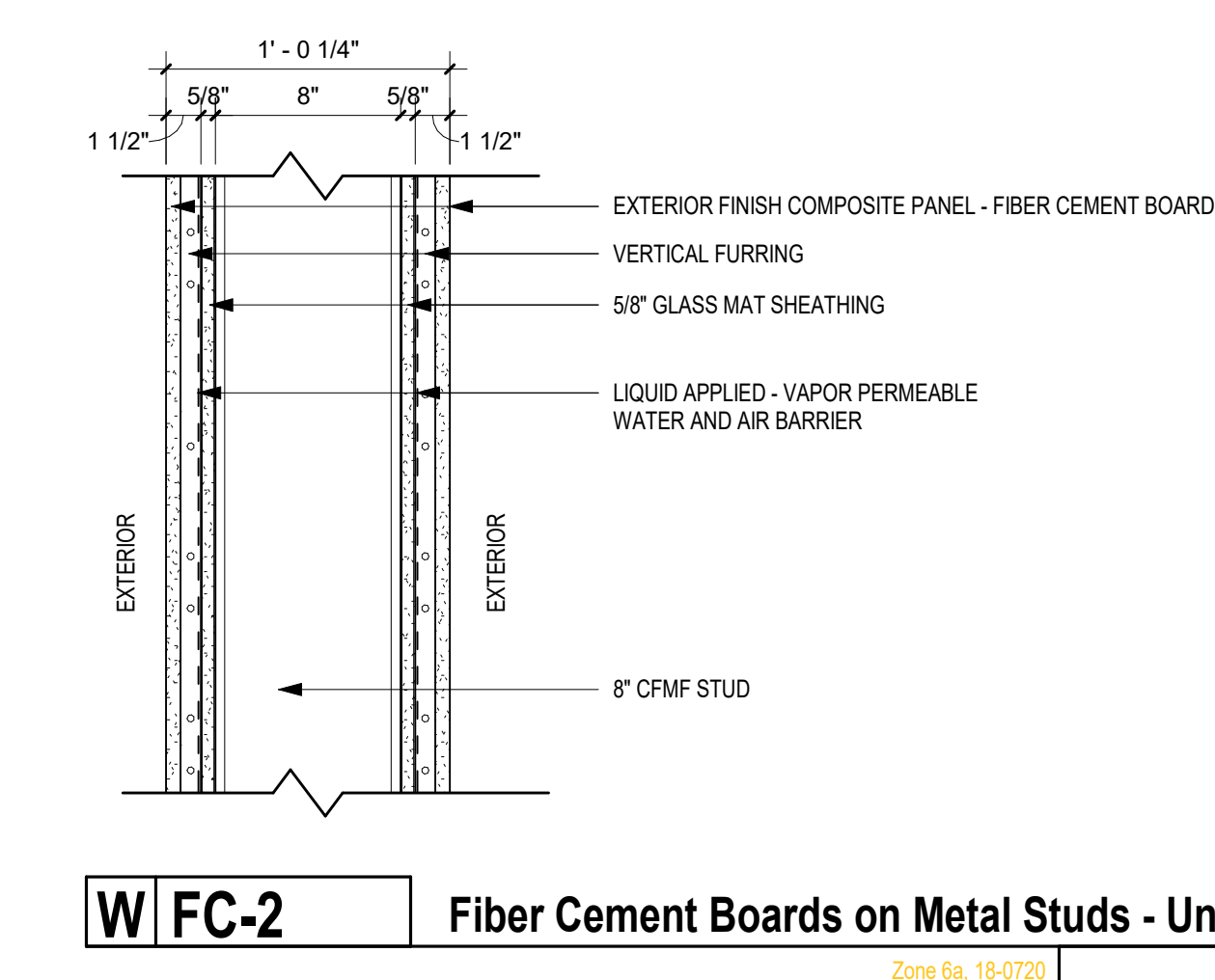
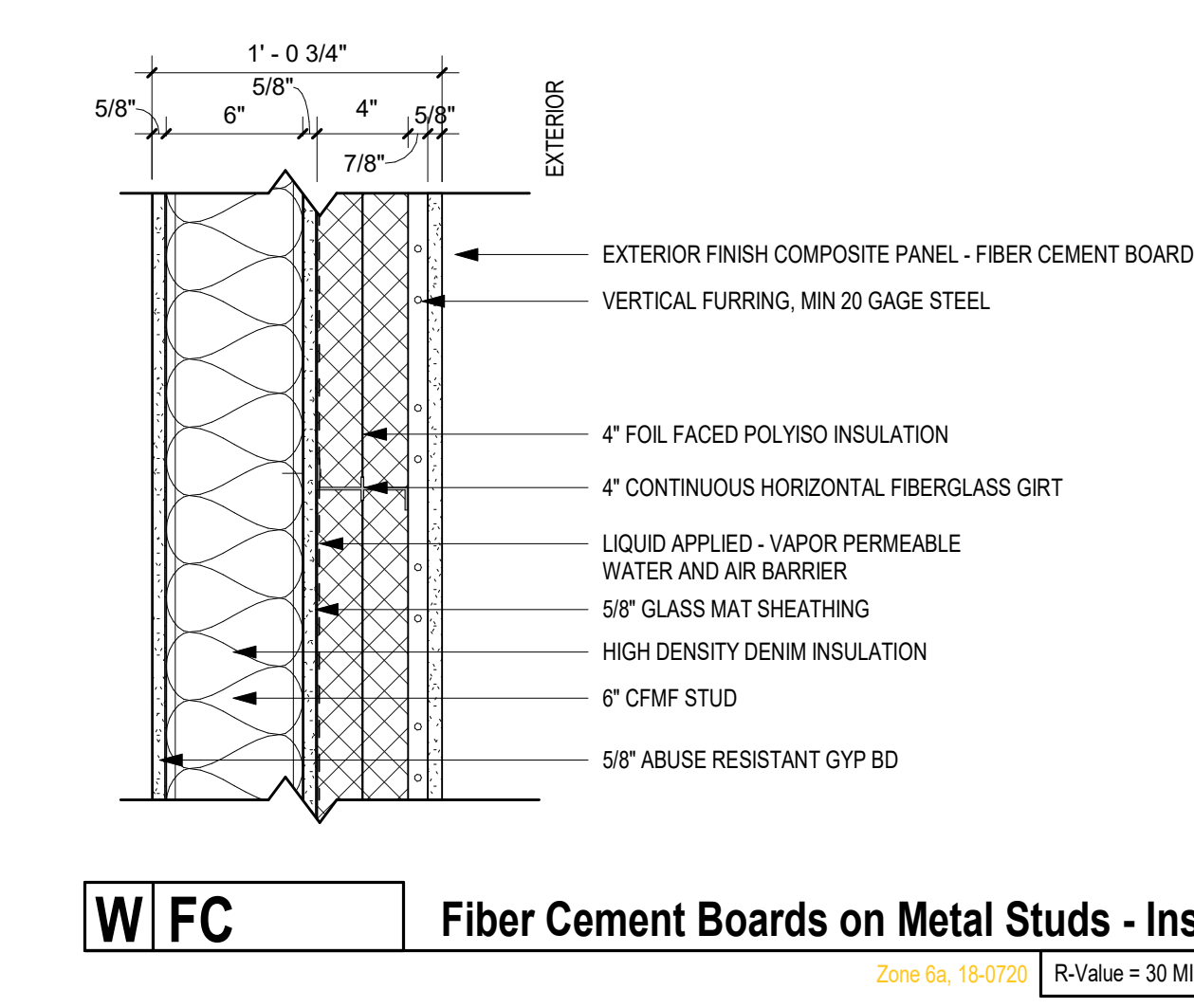
Roof Systems



Floor Systems



Wall Systems



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Revisions
No. Date Description

Project Information
Phase: 90% Construction Set Date: 04/23/2021
Project No.: 18-0720 PIC / A/C: S Obeisson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

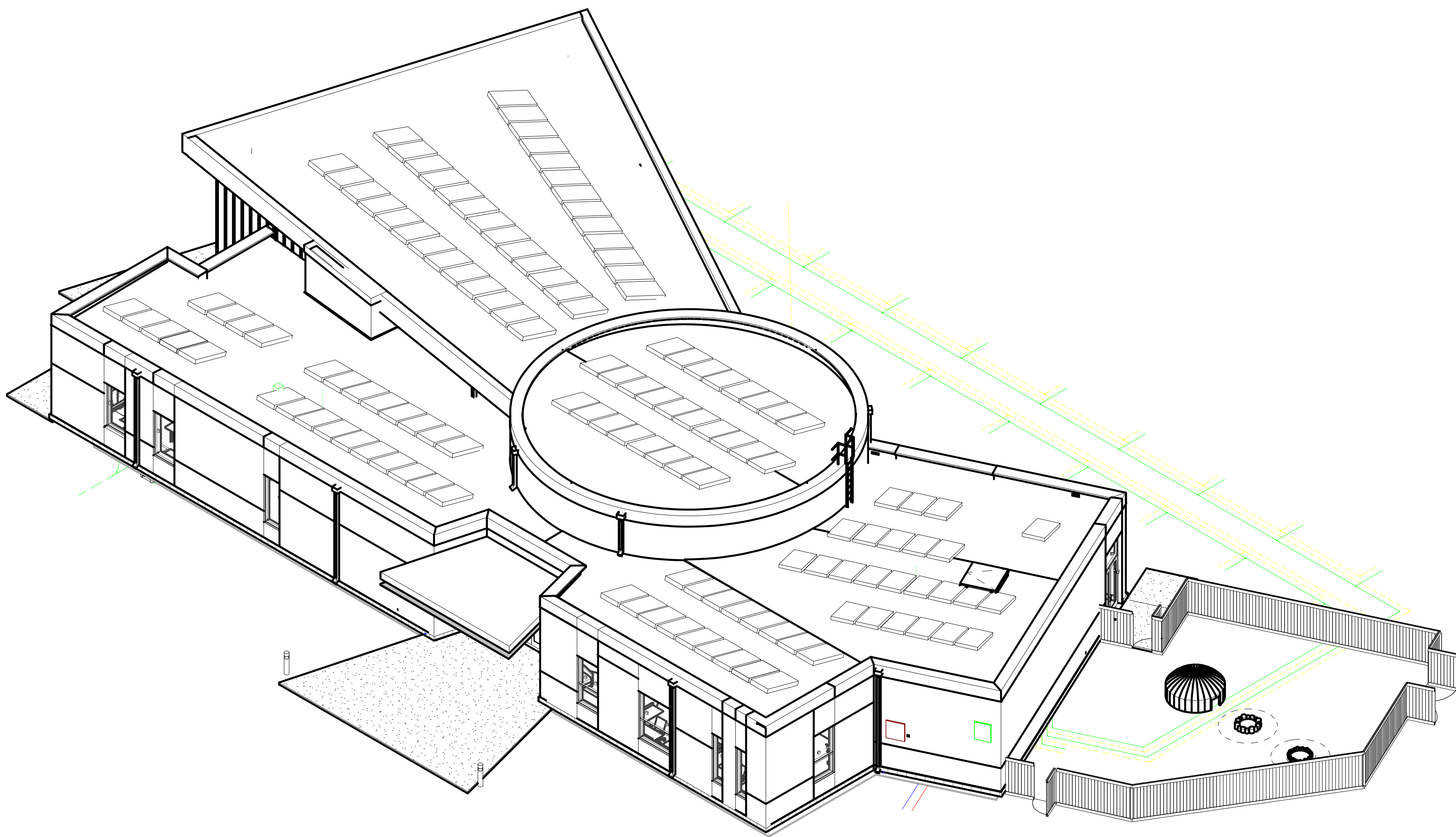
Drawing Package

Sheet Title
Building Systems

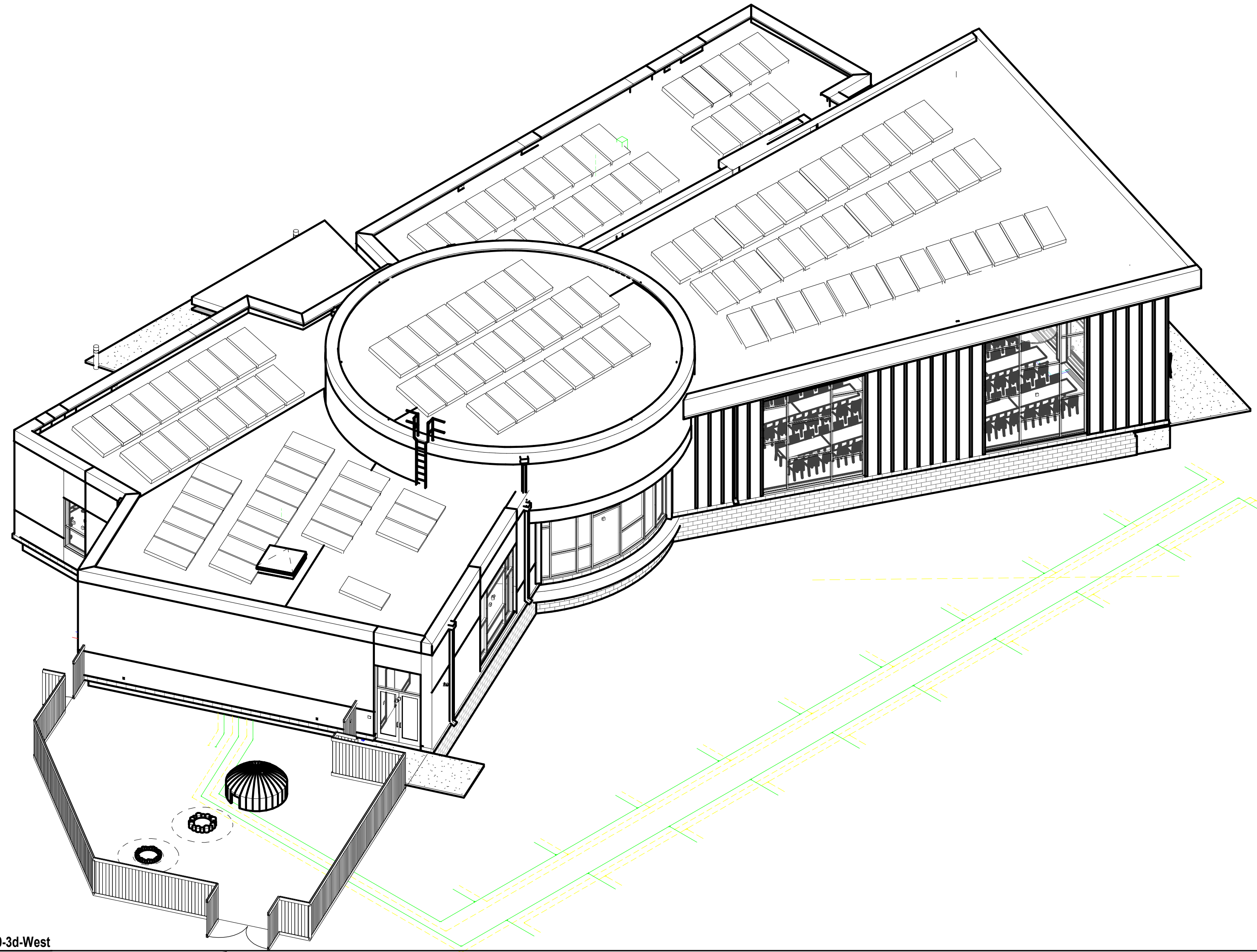
Sheet Number Current Revision

G003

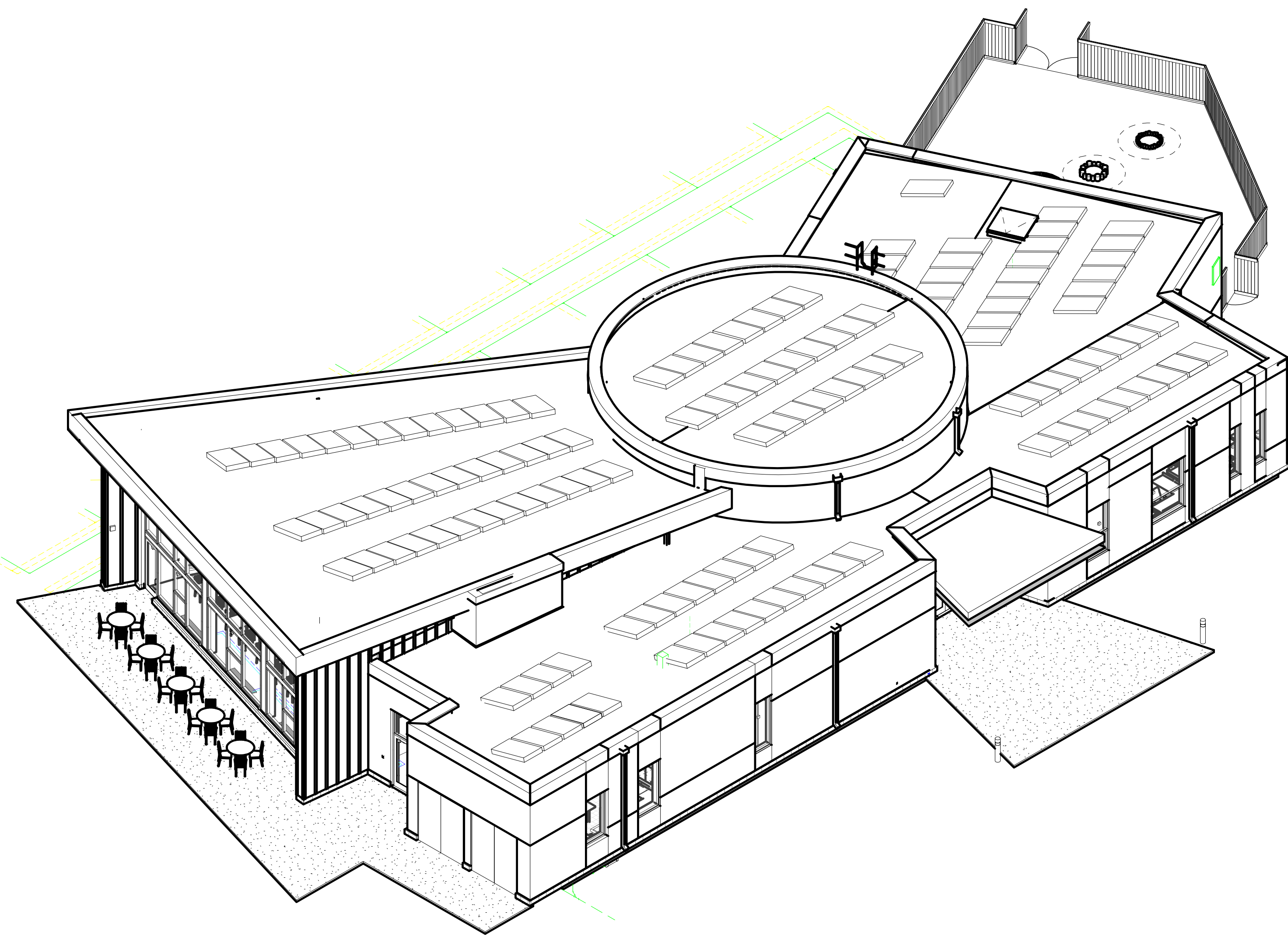
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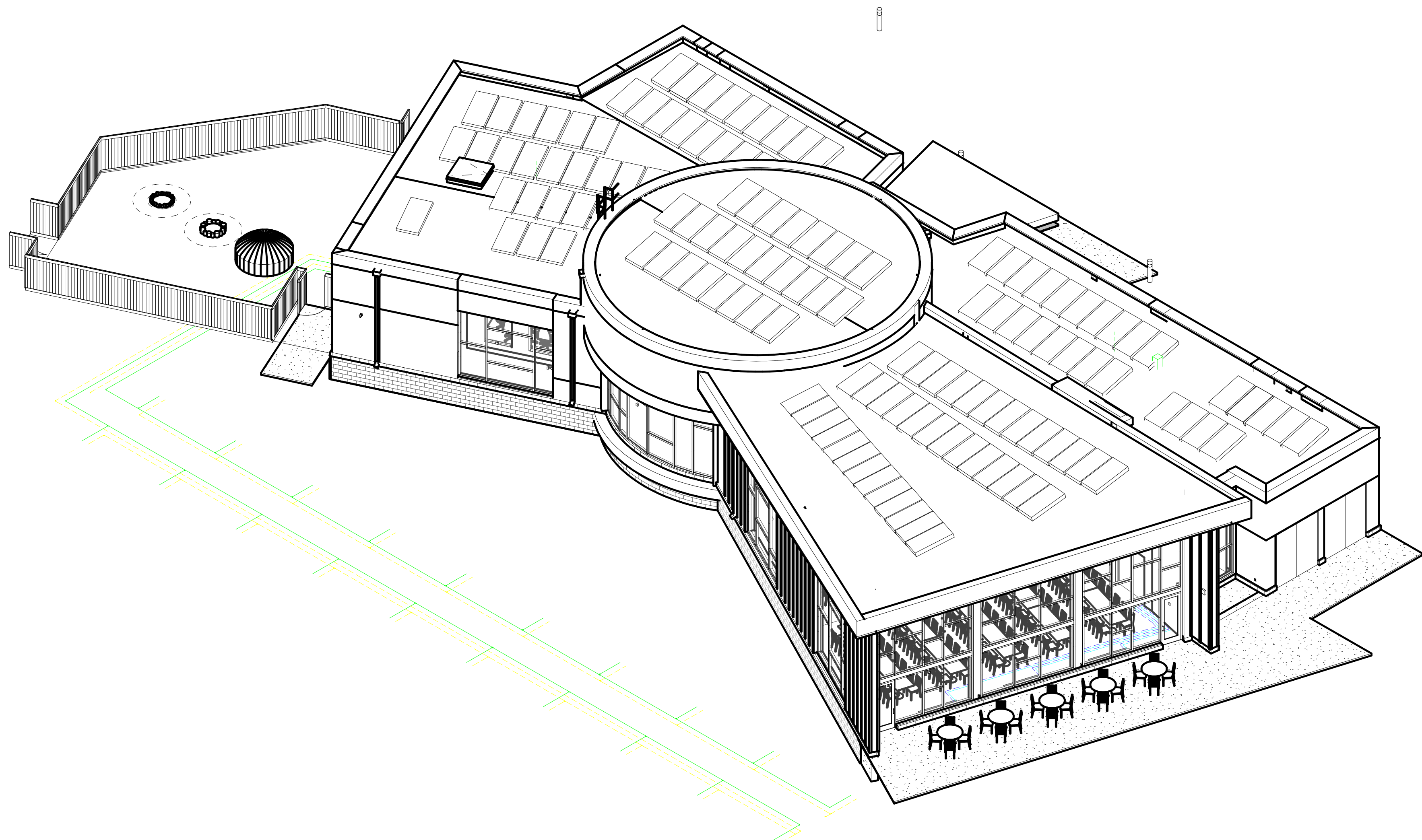
1
G090-3d-North



2
G090-3d-West



4
G090-3d-East



3
G090-3d-South

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Project Information
Phase: 90% Construction Set Date: 04/23/2021
Project No.: 18-0720 PIC / AIC: S Olbekson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

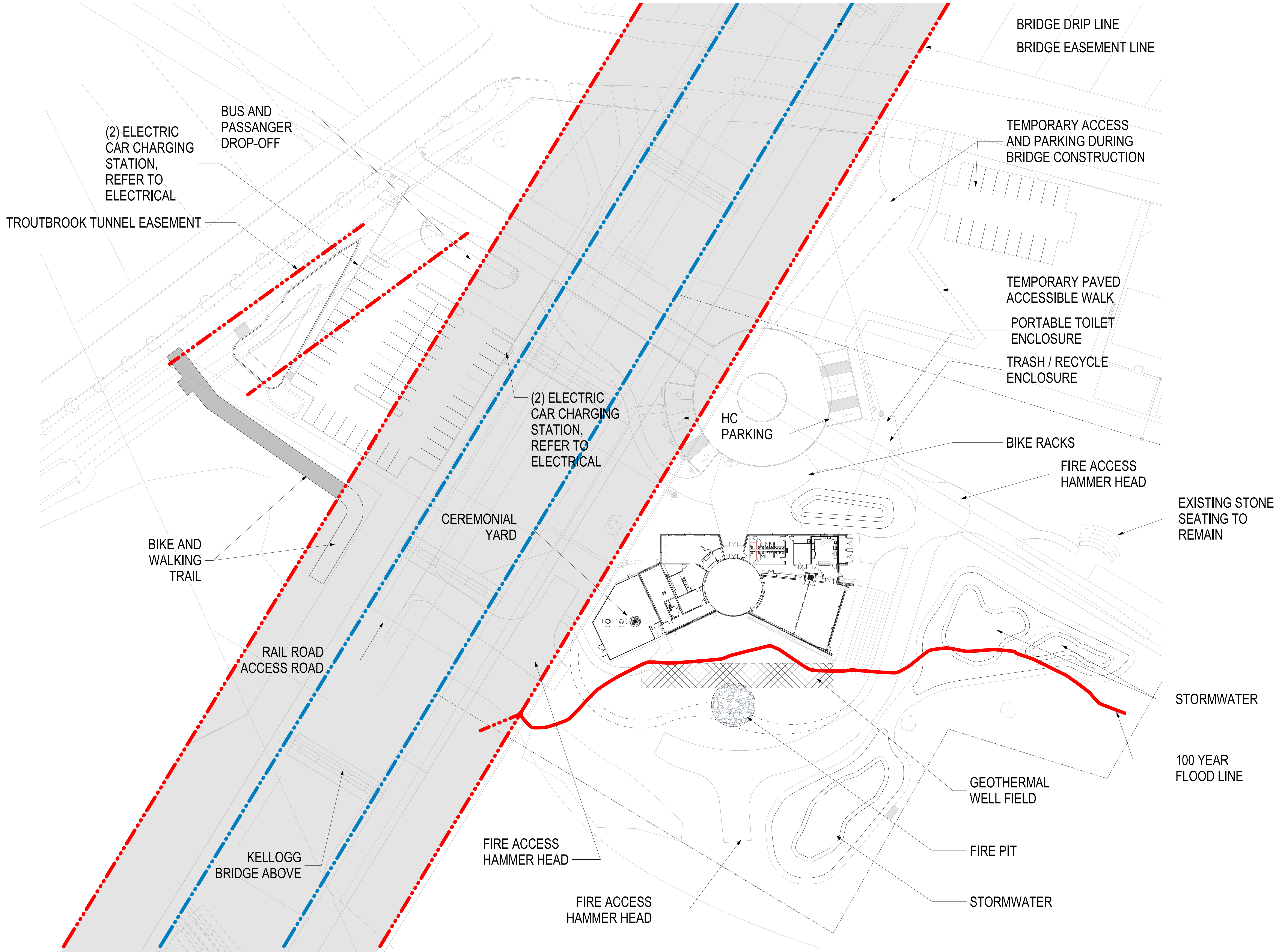
Drawing Package

Sheet Title
3D Views

Sheet Number Current Revision

G090

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1
R001
Code Site Plan
1" = 30'-0"

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Project Information
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Drawing Package

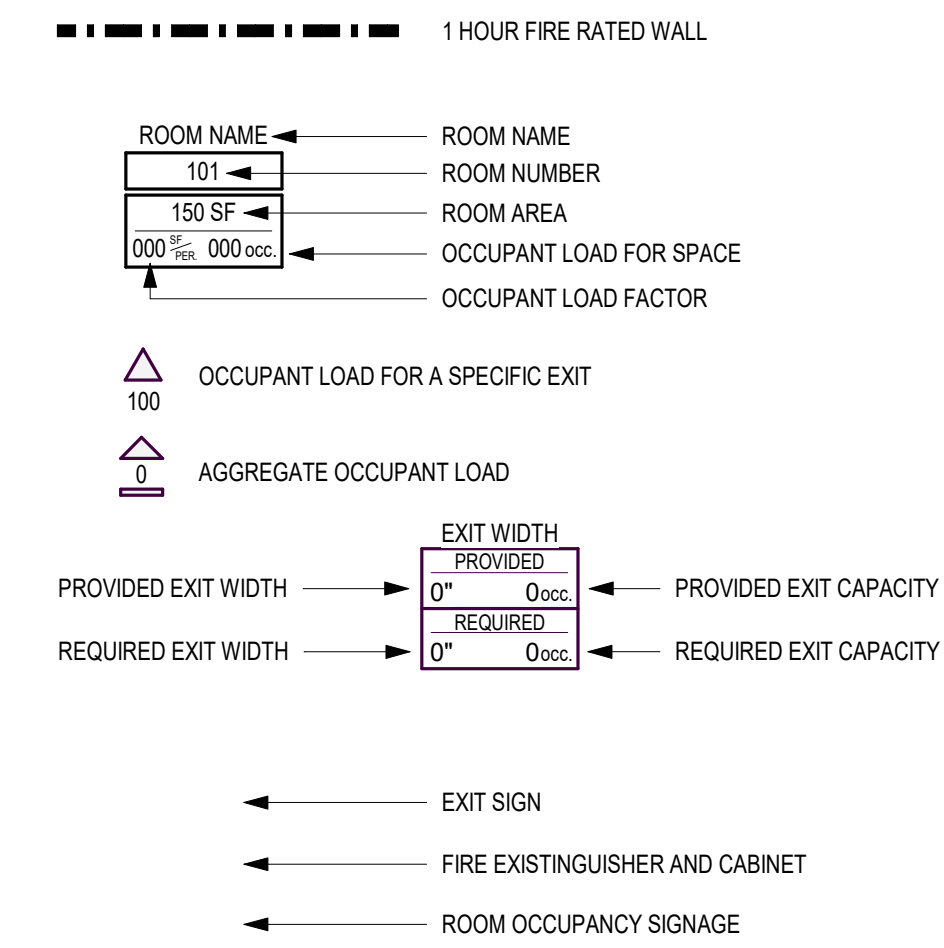
Sheet Title
Code Site Plan

Sheet Number Current Revision

R001

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Code Symbol Legend



General Accessibility Notes

ACCESSIBILITY SHALL COMPLY WITH CURRENT LOCAL APPLICABLE CODES AND ORDINANCES. VERIFY WITH AUTHORITIES HAVING JURISDICTION TO ENSURE COMPLIANCE. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLING THE WORK.

- ACCESSIBLE ROUTE:
- ALL COMMON USE AND PUBLIC SPACES WITHIN THE BUILDING SHALL BE ACCESSIBLE.
 - A MINIMUM OF ONE ACCESSIBLE ROUTE SHALL CONNECT ALL ACCESSIBLE ENTRANCES WITH PORTIONS OF THE BUILDING THAT ARE ACCESSIBLE.
 - A MINIMUM OF ONE ACCESSIBLE ROUTE SHALL BE PROVIDED FROM THE PUBLIC SIDEWALK, PARKING, AND PUBLIC TRANSPORTATION FACILITIES TO AND THROUGH THE ACCESSIBLE SPACES WITHIN THE BUILDING.
 - ALL ACCESSIBLE ROUTES SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
 - THERE SHALL BE NO OPENINGS GREATER THAN 1/2" GRATES OR SIMILAR OPENINGS SHALL BE LOCATED SO THAT THE LONG DIMENSION OF THE OPENING IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
 - SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL HAVE A MAXIMUM SLOPE OF 1:20 AND A MAXIMUM CROSS SLOPE OF 1:50.
 - CHANGES IN LEVEL ALONG THE ACCESSIBLE ROUTE SHALL BE 1/4" VERTICAL MAXIMUM OR 1/2" VERTICAL MAXIMUM WITH A 1:2 MAXIMUM BEVEL.
 - AN ACCESSIBLE ROUTE OF 36" WIDE OR 32" WIDE FOR A MAXIMUM LENGTH OF 24" SHALL BE PROVIDED TO CONNECT ALL ACCESSIBLE SPACES.
 - AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH OF LESS THAN 60" MUST PROVIDE FOR PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM.
 - OBJECTS PROTRUDING FROM THE WALL CANNOT BE GREATER THAN 4" FROM THE WALL AND MUST BE MOUNTED BETWEEN 27" - 80" AFF IF AN OBJECT PROTRUDES MORE THAN 4", IT MUST BE MOUNTED ABOVE 80" AFF.
 - OBJECTS MOUNTED TO A POST MAY OVERHANG THE ACCESSIBLE ROUTE 12" AND MUST BE MOUNTED BETWEEN 27" - 80" AFF.

- ACCESSIBLE PARKING:
- WHERE EMERGENCY WARNING SYSTEMS ARE REQUIRED IN ALL COMMON SPACES, THEN THEY MUST BE BOTH VISUAL AND AUDIBLE.
 - ALL VISUAL ALARMS THROUGHOUT THE PUBLIC AND COMMON SPACES ARE TO BE SYNCHRONIZED; THE FIRE ALARM SYSTEM IS TO COMPLY WITH ICC/ANSI A117.1 CHAPTER 702.1

- AUDIO VISUAL ALARMS & INTERCOM SYSTEMS:
- WHERE EMERGENCY WARNING SYSTEMS ARE REQUIRED IN ALL COMMON SPACES, THEN THEY MUST BE BOTH VISUAL AND AUDIBLE.
 - ALL VISUAL ALARMS THROUGHOUT THE PUBLIC AND COMMON SPACES ARE TO BE SYNCHRONIZED; THE FIRE ALARM SYSTEM IS TO COMPLY WITH ICC/ANSI A117.1 CHAPTER 702.1
- HANDRAILS:
- HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
 - HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT AND RAMP RUN, INCLUDING THE INSIDE RAIL OF A SWITCHBACK OR DOUGLES STAIR OR RAMP.
 - HANDRAILS NOT LOCATED AT THE INSIDE OF A RAMP SHALL EXTEND 12" PAST BOTH THE TOP AND BOTTOM RUNS; EXTENSIONS SHALL RETURN TO THE WALL OR FLOOR.
 - HANDRAILS NOT LOCATED AT THE INSIDE FACE OF THE STAIR SHALL EXTEND BEFORE EXTENSIONS 12" BEYOND THE LANDING NOSING AT THE TOP RUN AND 12" PLUS THE WIDTH OF ONE TREAD BEYOND THE LAST STAIR NOSING AT THE BOTTOM RUN.
 - TOP SURFACE OF HANDRAILS SHALL BE LOCATED 34" ABOVE THE STAIR NOSING OR RAMP SURFACE.
 - CLEARANCE BETWEEN THE HANDRAIL AND THE ADJACENT SURFACE SHALL BE 1 1/2".
 - HANDRAILS SHALL NOT PROJECT MORE THAN 4" INTO THE RAMP OR STAIR WIDTH.
 - THE GRIPPING SURFACE OF THE HANDRAIL SHALL HAVE A WIDTH OR DIAMETER OF 1 1/2" - 1 3/4".

- SIGNAGE:
- REQUIRED SIGNAGE FOR PARKING SPACES RESERVED FOR INDIVIDUALS WITH DISABILITIES, ACCESSIBLE PASSENGER LOADING ZONES, ACCESSIBLE ENTRANCES WHEN ALL ARE NOT ACCESSIBLE, NON-ACCESSIBLE ENTRANCES THAT HAVE DIRECTIONAL SIGNAGE TO INDICATE THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE, ACCESSIBLE TOILET ROOMS WHEN NOT ALL ARE ACCESSIBLE, NON-ACCESSIBLE TOILET ROOMS THAT HAVE DIRECTIONAL SIGNAGE TO INDICATE THE ROUTE TO THE NEAREST ACCESSIBLE TOILET ROOMS, DIRECTIONAL OR INFORMATIONAL SIGNAGE AND PERMANENT ROOM SIGNAGE SHALL COMPLY WITH THE PROVISIONS OF THE MINNESOTA ACCESSIBILITY CODE, AND ICC/ANSI A117.1.
 - LETTERS AND NUMBERS SHALL BE RAISED AT LEAST 1/32" (3.2 MM) UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE, AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (15.9 MM) HIGH, BUT NO HIGHER THAN 7/8" (22.2 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" (152 MM) MINIMUM IN HEIGHT.
 - THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND; EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
 - WHERE PERMANENT IDENTIFICATION IS PROVIDED, SIGNS SHALL BE INSTALLED ON THE WALL, ADJACENT TO THE LATCH SIDE OF THE DOOR, WHERE NO WALL SPACE EXISTS TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 80" AFF TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL ALLOW A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.
 - FACILITIES WITH ELEMENTS REQUIRED TO BE ACCESSIBLE SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

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Name:

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Revisions

No.	Date	Description
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Project Information

Phase: 90% Construction Set Date: 04/23/2021
Project No.: 18-0720 PIC/AIC: S Olbekson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

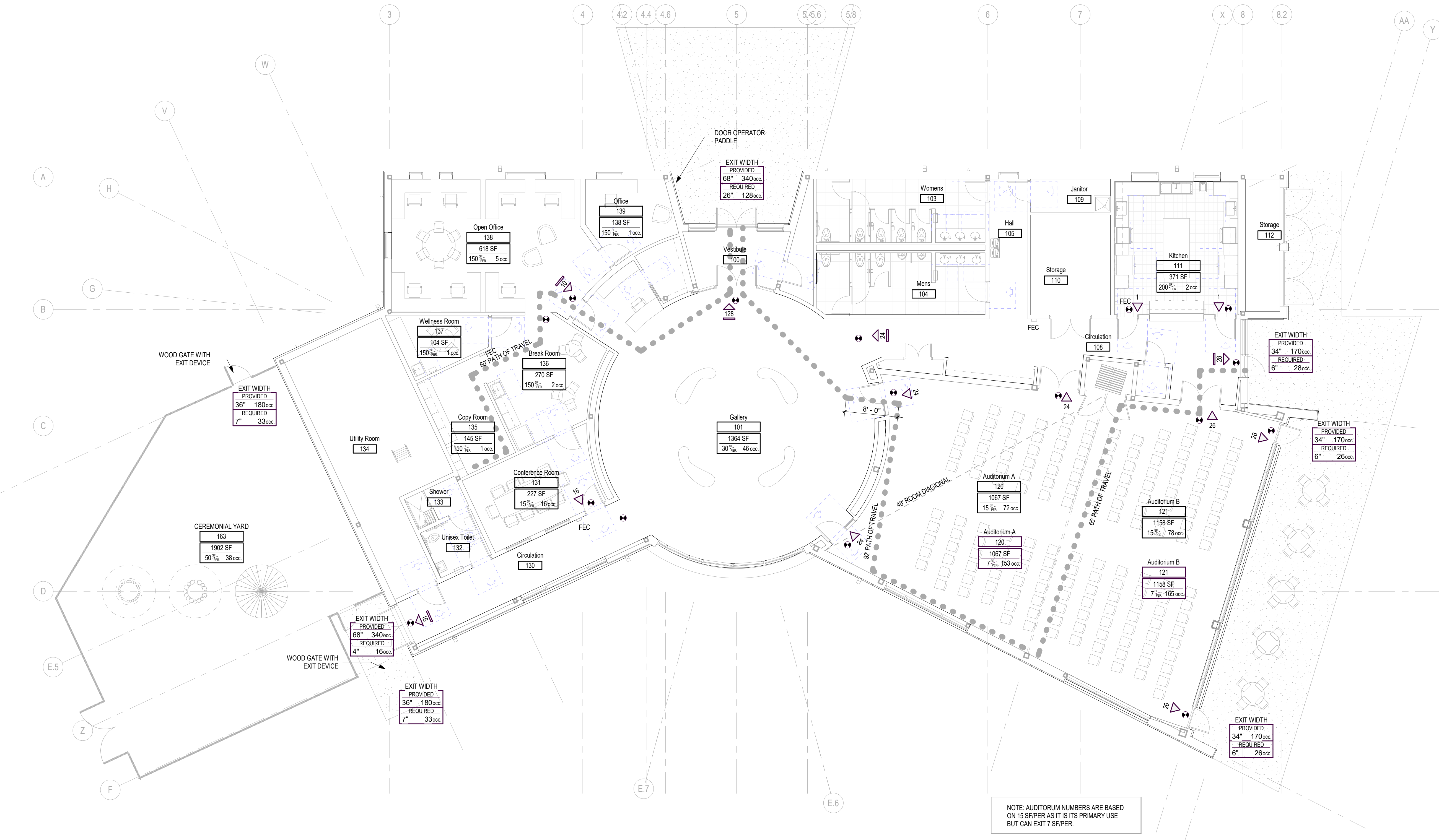
Code Plan

Sheet Number

R002

Current Revision

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1 Level 1 - Code Plan
R002 1/8" = 1'-0"

Project and Building Code Analysis

PROJECT DESCRIPTION:	NEW SINGLE STORY OFFICE NATURE AND CULTURAL CENTER BUILDING, INCLUDING ASSEMBLY, GALLERY AND OFFICE
GOVERNING BUILDING CODE:	2020 MINNESOTA BUILDING CODE - BASED ON 2018 IBC
ELECTRICAL CODE:	2020 MINNESOTA - NATIONAL ELECTRIC CODE
PLUMBING CODE:	2015 MINNESOTA PLUMBING CODE
MECHANICAL CODE:	2020 MINNESOTA MECHANICAL AND FUEL GAS CODE
ENERGY CODE:	2020 MINNESOTA ENERGY CODE
FIRE CODE:	2020 MINNESOTA FIRE CODE
ACCESSIBILITY CODE:	2020 MINNESOTA ACCESSIBILITY BUILDING CODE
PRIMARY OCCUPANCY TYPE:	GROUP A3 - ASSEMBLY GROUP B - BUSINESS
BUILDING TYPE:	V-B
FIRE SPRINKLERS:	MONITORED AND FULLY AUTOMATIC FIRE SPRINKLER
FIRE ALARM:	MONITORED ALARM SYSTEM
NUMBER OF STORIES:	1 STORY ABOVE GRADE
BUILDING GROSS AREA:	9,150 GSF
BUILDING OCCUPANT LOAD:	230 OCCUPANTS
EXITS:	2 EXIT REQUIRED PER FLOOR, 5 EXIT PROVIDED
CONSTRUCTION MATERIALS:	STRUCTURE STEEL FRAME; COMPOSITE METAL DECK AND CONCRETE; EXTERIOR ENCLOSURE: COLD FORM METAL FRAMING, ACRYLIC STUCCO AND FIBER CEMENT SIDING
CHAPTER 1 -	104.11 ALTERNATE MATERIAL, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT TO BE DETERMINED IF NEEDED
CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREA	
TABLE 504.3 AND 504.4 - ALLOWABLE HEIGHT AN STORIES WITH FIRE SPRINKLERS (TABLES 504.3 & 504.4)	
GROUP A3 = 60 FEET / 2 STORIES	
GROUP B = 60 FEET / 3 STORIES	
TABLE 506.2 - ALLOWABLE AREA PER FLOOR WITH FIRE SPRINKLERS (TABLE 506.2) (S1)	
GROUP A3 = 24,500 SF	
GROUP B = 30,000 SF	
508.3.1 - OCCUPANCY CLASSIFICATION	
THE MOST RESTRICTIVE PROVISION OF CHAPTER IS APPLIED TO ALL OCCUPANCY AREAS	
TABLE 508.4 - SEPARATION OF OCCUPANCY	
GROUP B TO GROUP A = 1 hr	

CHAPTER 6 - TYPES OF CONSTRUCTION

TABLE 601	TYPE VI-B
PRIMARY STRUCTURE	= 0 hr
BEARING WALL EXTERIOR	= 0 hr
BEARING WALL INTERIOR	= 0 hr (per table 602 for >30')
NON-BEARING WALL EXTERIOR	= 0 hr
NON-BEARING WALL INTERIOR	= 0 hr
FLOOR CONSTRUCTION & 2nd MEMBERS	= 0 hr
ROOF CONSTRUCTION AND 2nd MEMBERS	= 0 hr

602.5 TYPE V
TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALL AND INTERIOR WALL ARE OF ANY MATERIAL PERMITTED BY THIS CODE.

CHAPTER 10 - MEANS OF EGRESS

1004 - OCCUPANT LOAD

ASSEMBLY A3 - GALLERY MUSEUM	
"A3"	= 30 SF / 1364 SF / OCC = 46 OCCUPANTS
ASSEMBLY A3 - UNCONCENTRATED TABLES/CHAIR	
"A3"	= 15 SF / 2225 SF / OCC = 149 OCCUPANTS

BUSINESS B - OFFICE	
"B" BUSINESS	= 150 SF / 2041 SF / OCC = 14 OCCUPANTS
"B" KITCHEN	= 200 SF / 371 SF / OCC = 2 OCCUPANTS
"B" JANITOR	= 300 SF / 167 SF / OCC = 1 OCCUPANTS
"B" CONFERENCE	= 15 SF / 227 SF / OCC = 16 OCCUPANTS

STORAGE S - OFFICE	
"S" STORAGE	= 300 SF / 361 SF / OCC = 2 OCCUPANTS

TOTAL OCCUPANTS = 230 OCCUPANTS

1005 - MEANS OF EGRESS SIGNING

1006 - NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

REQUIRED	= 2 EXITS	PROVIDED	= 5 EXITS
WIDTH REQUIRED	= 46"	WIDTH PROVIDED	= 238"

* REFER TO CODE PLAN FOR INDIVIDUAL ROOMS

1006 TABLE 1006.2.1 (Common Path of Travel)

MAXIMUM DISTANCE = 100' PROVIDED DISTANCE = 92'

1017 - EXIT ACCESS TRAVEL DISTANCE - TABLE 107.2 (WITH SPRINKLER SYSTEM)

GROUP A MAXIMUM DISTANCE = 250'	PROVIDED DISTANCE = 92'
GROUP B MAXIMUM DISTANCE = 300'	PROVIDED DISTANCE = 81'

TABLE 1020.1 - CORRIDOR FIRE RESISTANCE RATING
B & A OCCUPANCY DOES NOT REQUIRE CORRIDOR FIRE RATING IN SPRINKLERED BUILDING.

1023 - INTERIOR EXIT STAIRWAYS AND RAMPS

1023.3.1 - EXTENSION
STAIR AND EXIT PASSAGEWAY TO BE SEPARATED BY A FIRE BARRIER AND FIRE DOOR.

TABLE 1023.1 - EXIT DISCHARGE

EXCEPTION 1 ALLOWS PASSAGE THROUGH LOBBY IS ALL 4 CONDITIONS ARE MEET

- UNOBSTRUCTED PATH TO EXIT
- LEVEL IS SEPARATED FROM BELOW WITH FIRE RESISTANCE RATING EQUAL TO STAIR
- PATH OF TRAVEL IS PROTECTED SPRINKLERS
- IS SEPARATED FROM OTHER EXIT BY 30' OR MORE

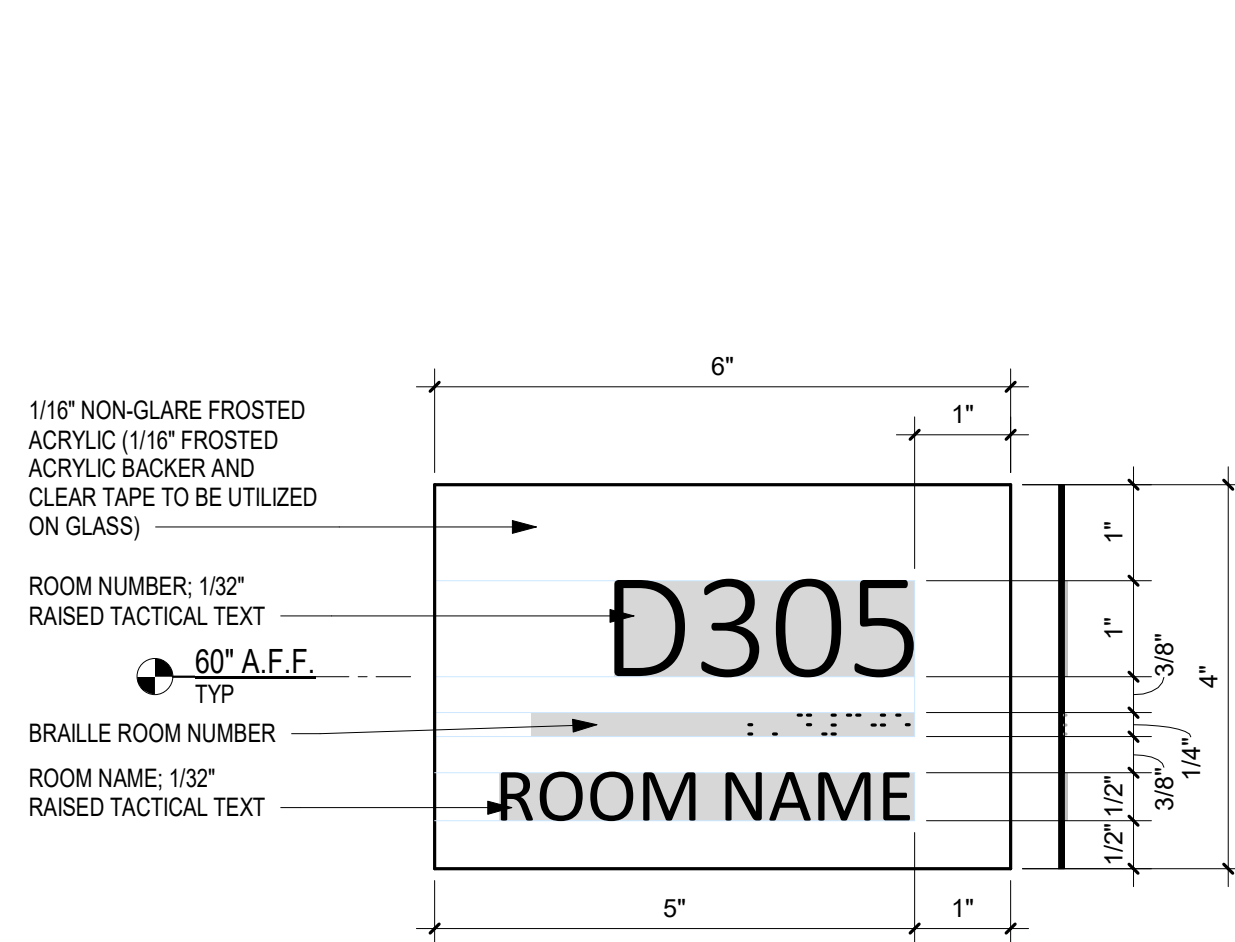
CHAPTER 29 PLUMBING SYSTEMS

GROUP A, ASSEMBLY	= 198 OCCUPANTS (Useable occupied portion of the building)
WOMEN	= 98 OCCUPANTS
REQUIRED WATER CLOSET	= 2 wc
PROVIDED WATER CLOSET	= 6 wc
REQUIRED LAVATOIRES	= 1 wc
PROVIDED LAVATOIRES	= 4 wc
MEN	= 98 OCCUPANTS
REQUIRED WATER CLOSET	= 1 wc
PROVIDED WATER CLOSET	= 4 wc
PROVIDED URINAL	= 2 wc (Up to 1/2 of WC can be substituted with Urinals)
REQUIRED LAVATOIRES	= 1 wc
PROVIDED LAVATOIRES	= 4 wc

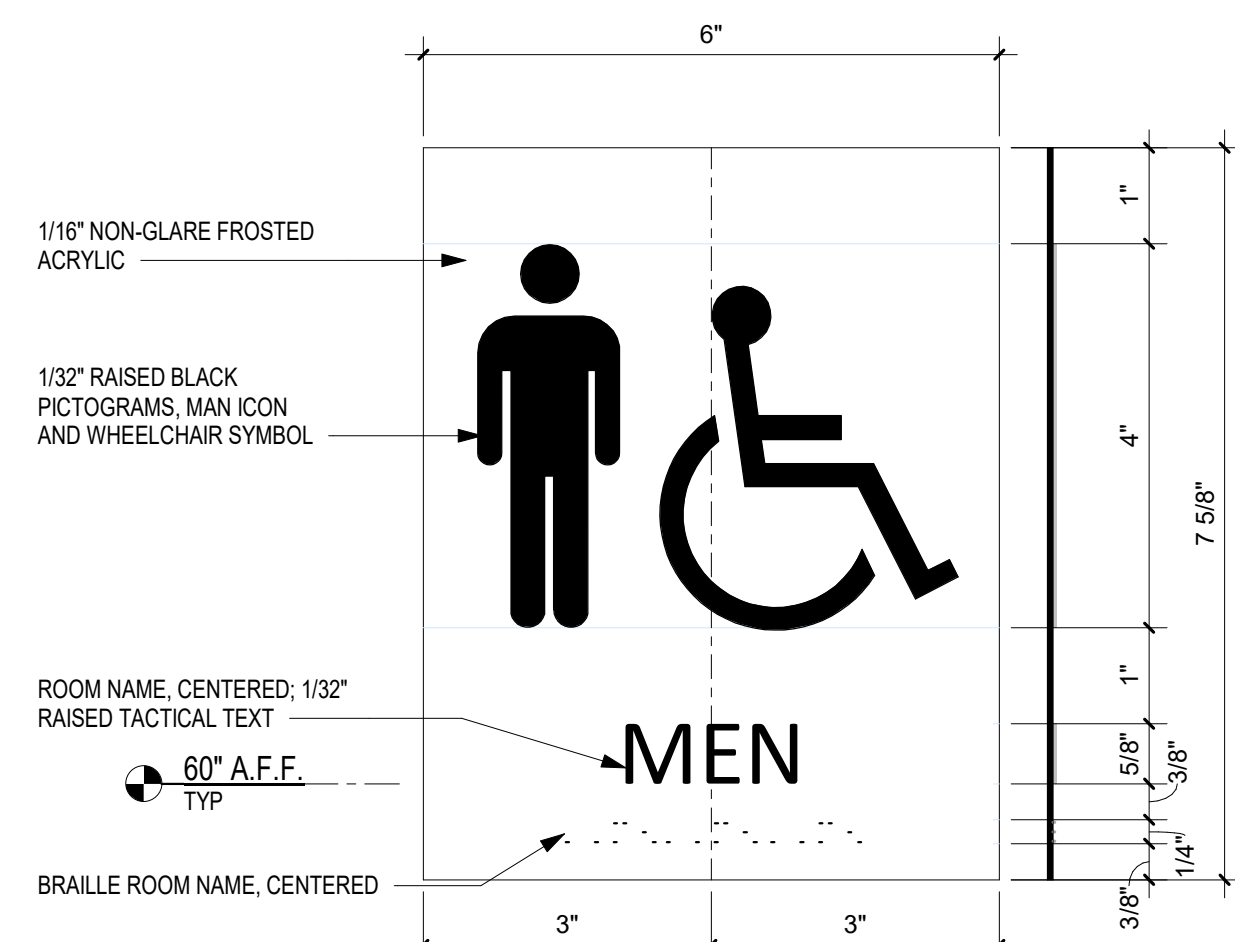
GROUP B, BUSINESS	= 35 OCCUPANTS (Useable occupied portion of the building)
WOMEN	= 18 OCCUPANTS
REQUIRED WATER CLOSET	= 1 wc (xx-50 = x wc & xx/50 = x)
PROVIDED WATER CLOSET	= 6 wc
REQUIRED LAVATOIRES	= 1 wc (xx-80 = x lav & xx/80 = x)
PROVIDED LAVATOIRES	= 4 wc
MEN	= 18 OCCUPANTS
REQUIRED WATER CLOSET	= 1 wc (xx-50 = x wc & xx/50 = x)
PROVIDED WATER CLOSET	= 4 wc
PROVIDED URINAL	= 2 wc (Up to 1/2 of WC can be substituted with Urinals)
REQUIRED LAVATOIRES	= 1 wc (xx-80 = x lav & xx/80 = x)
PROVIDED LAVATOIRES	= 4 wc

DRINKING FOUNTAIN	= 1 df (xx/100 = x df)
REQUIRED FOUNTAIN	= 1 df
PROVIDED WATER CLOSET	

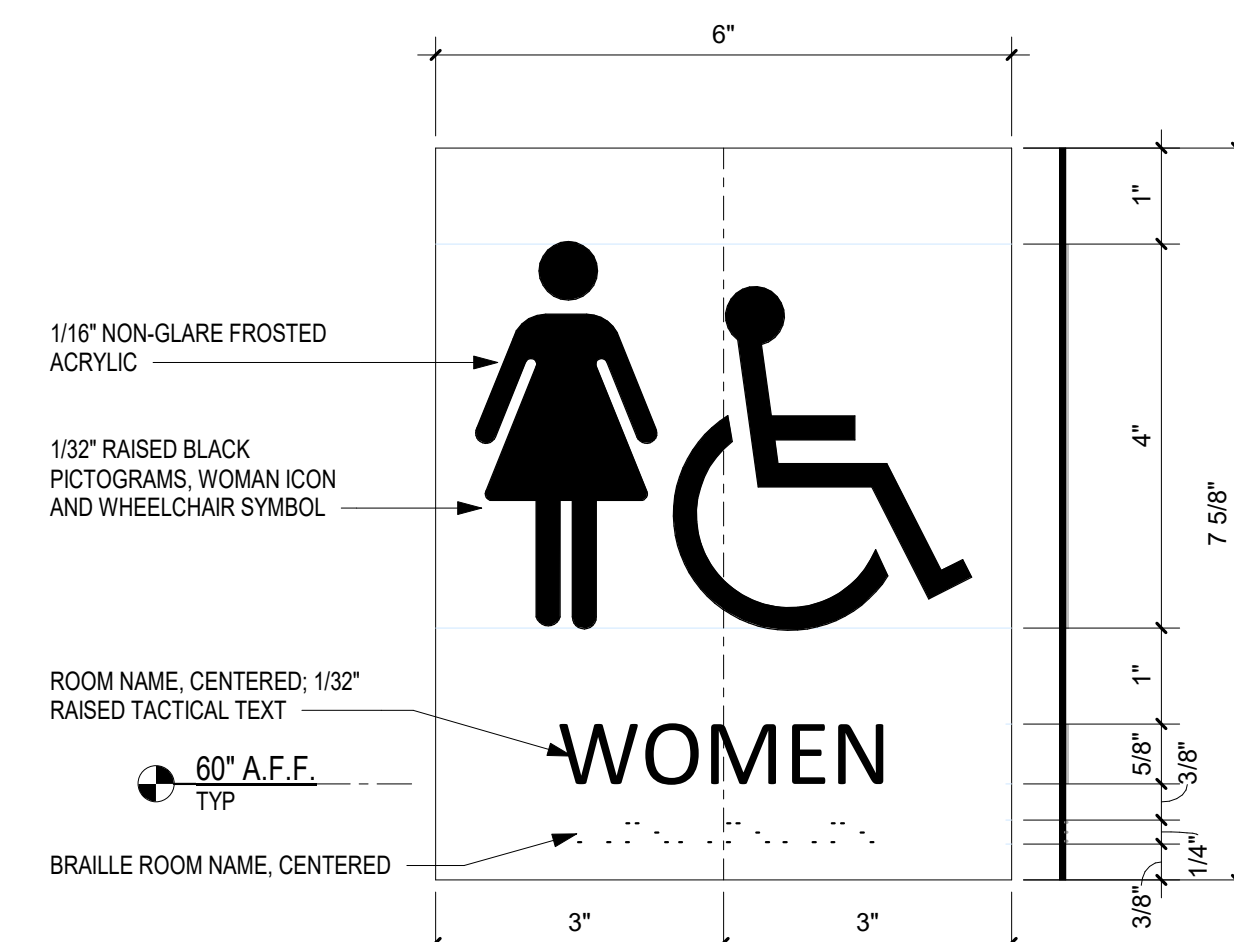
SERVICE SINK	= 1 Service Sink
REQUIRED SINK	= 1 Service Sink
PROVIDED SINK	



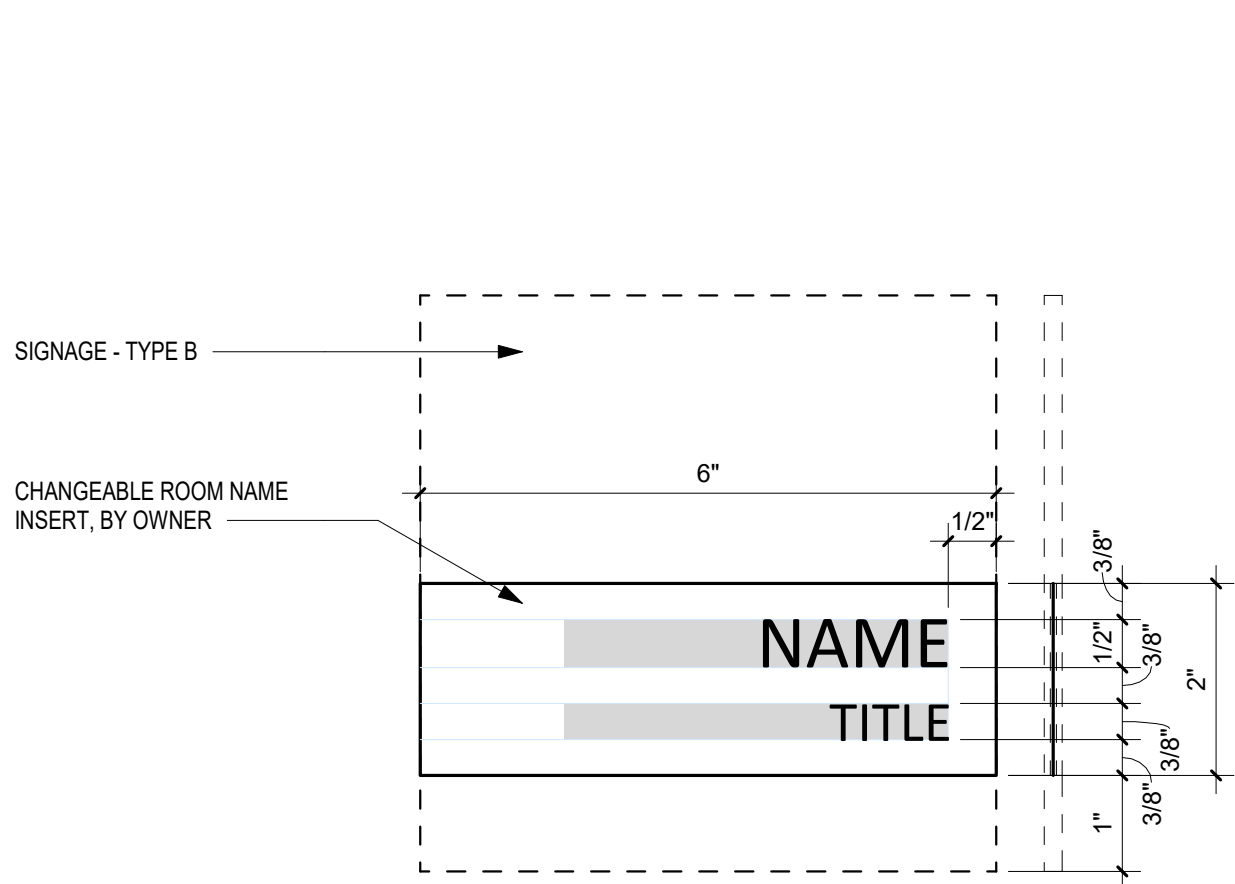
7 Signage - Type C
R900 6" = 1'-0"



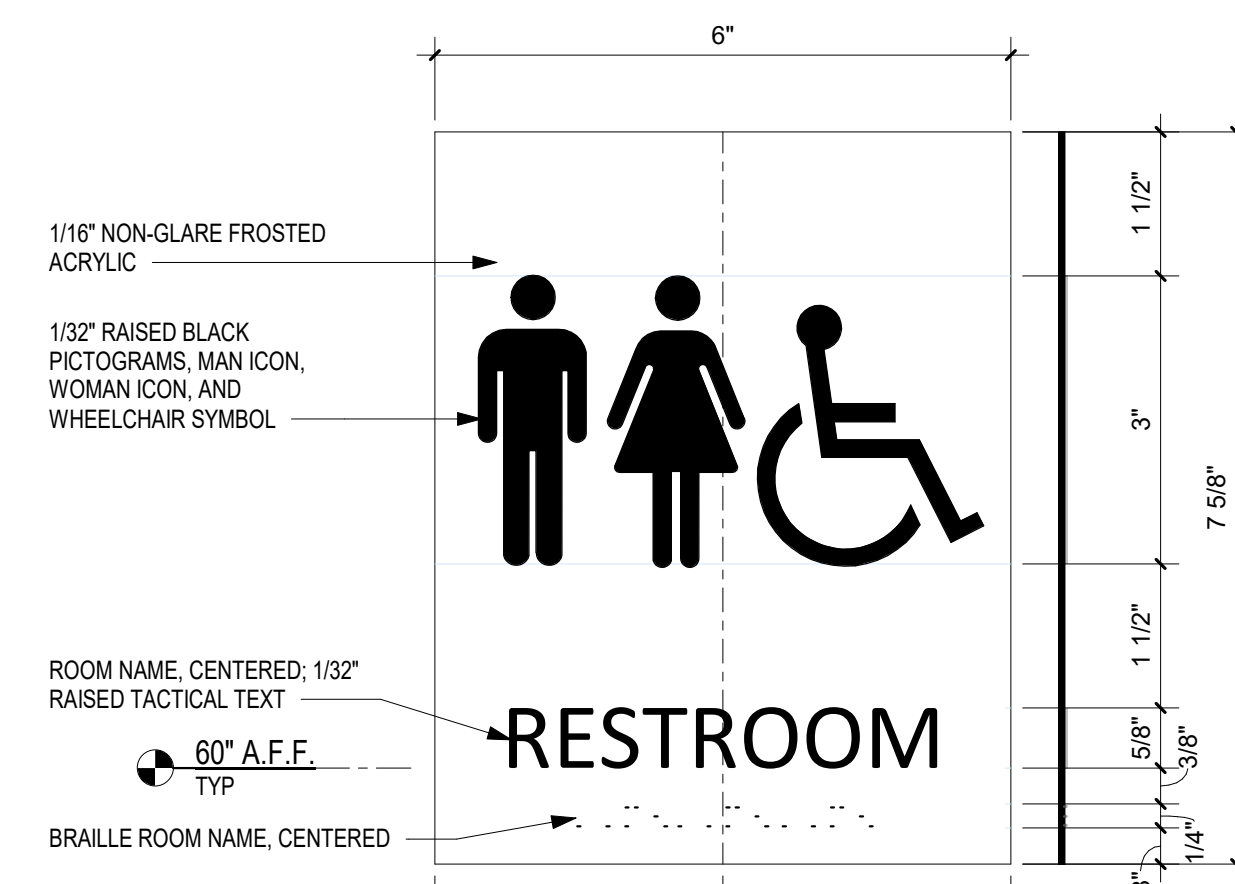
8 Signage - Men's Restroom - Type D
R900 6" = 1'-0"



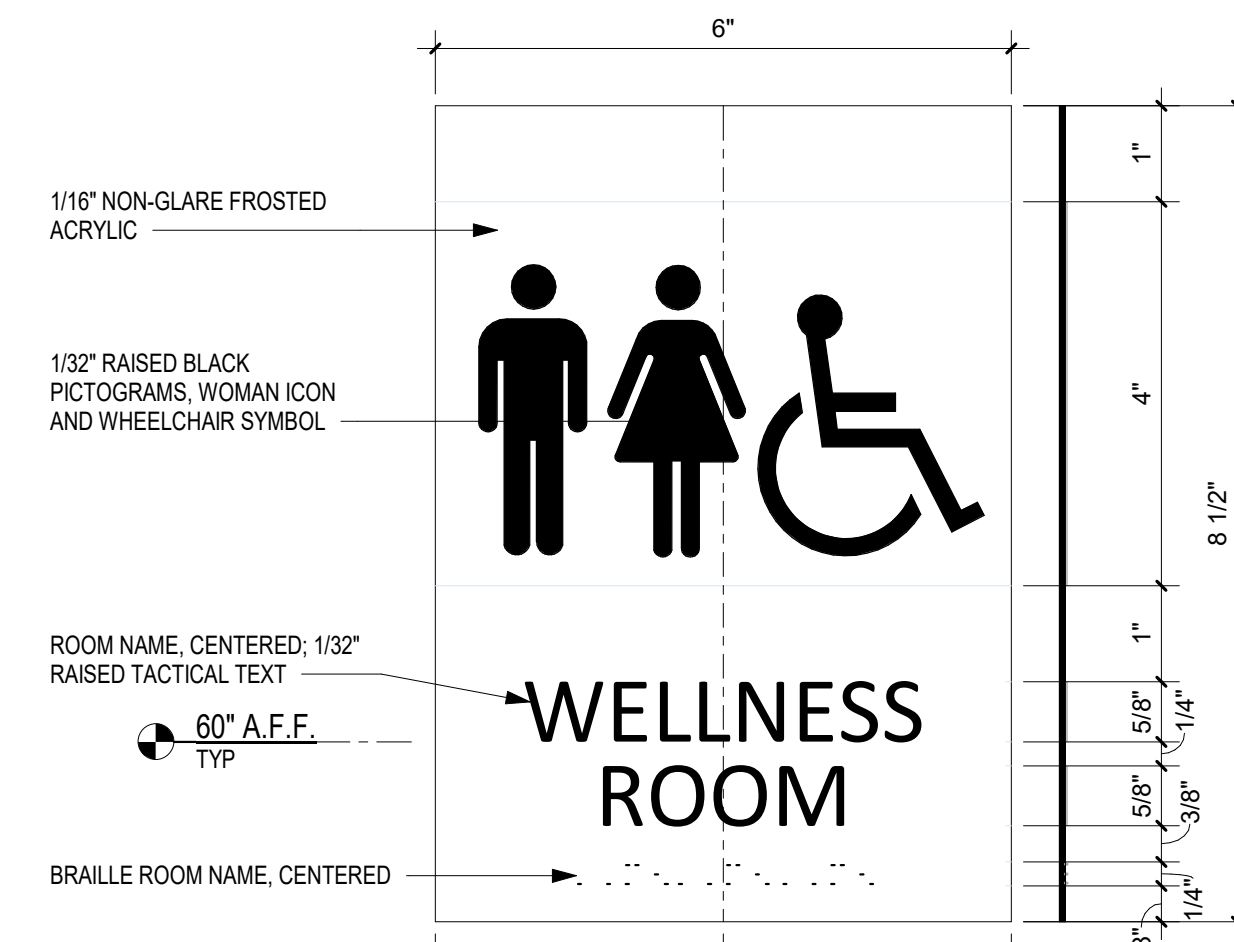
9 Signage - Women's Restroom - Type E
R900 6" = 1'-0"



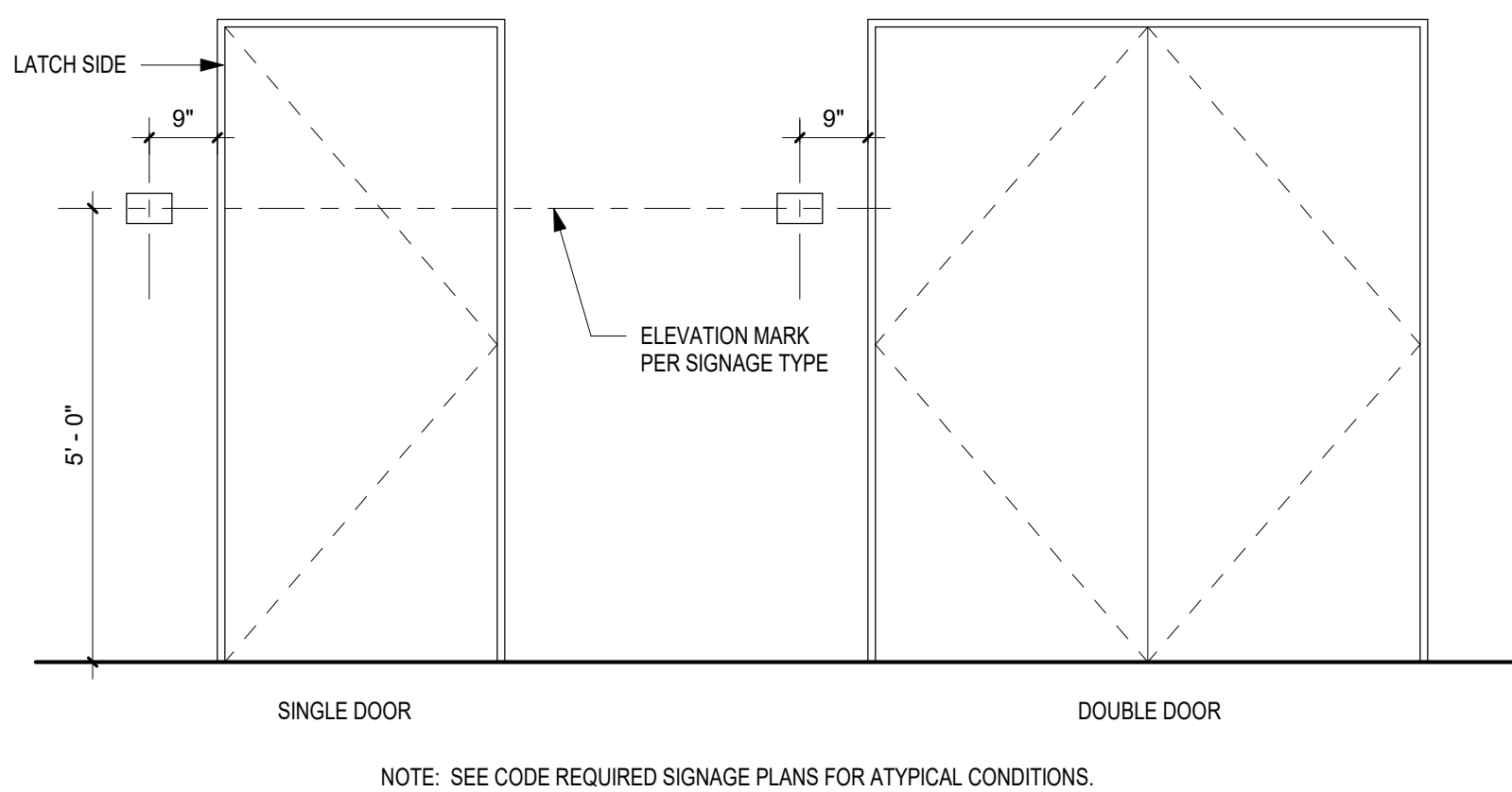
4 Signage - Insert (By Owner) - Type B1
R900 6" = 1'-0"



3 Signage - Unisex Restroom - Type F
R900 6" = 1'-0"



2 Signage - Mother's Room - Type G
R900 6" = 1'-0"



1 Typical Code Required Signage Placement
R900 1/2" = 1'-0"

SIGNAGE TYPE KEY

NUMBER	TYPE
B1	NAME AND TITLE INSERT, BY OWNER
C	GRAPHIC SIGNAGE FOR BACK OF HOUSE ROOMS
D	GRAPHIC SIGNAGE FOR MEN'S RESTROOMS
E	GRAPHIC SIGNAGE FOR WOMEN'S RESTROOMS
F	GRAPHIC SIGNAGE FOR UNISEX RESTROOM
G	GRAPHIC SIGNAGE FOR WELLNESS ROOM

NOTES
1. SEE 1A-900 FOR TYPICAL SIGN PLACEMENT.
2. TEXT WITH GREY BOX IS INTERCHANGEABLE, REFER TO SIGN SCHEDULE FOR TEXT.

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License No.:

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Signed:

Revisions

No.	Date	Description
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Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / AIC:	S Obeisson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

Code Required Signage

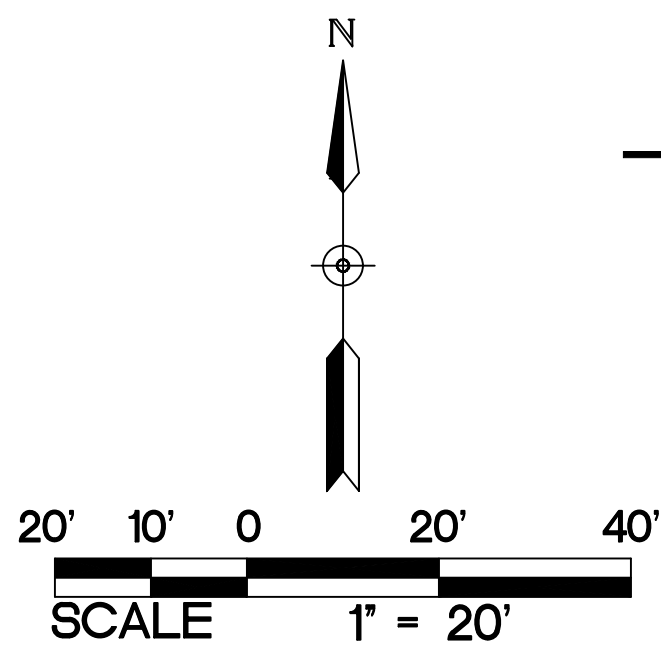
Sheet Number

R900

Current Revision



PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	---X---
PROPERTY LINE	---
GRAVEL REMOVAL	---X---
BITUMINOUS REMOVAL	---
PHASE 2 CONSTRUCTION	---
WATER MAIN REMOVAL	---
FENCE REMOVAL	---
TREE REMOVAL	---
TREE PROTECTION ZONE	---
APPROXIMATE 100 YEAR FLOOD ELEVATION (707)	---
CONSTRUCTION ENTRANCE	---



NOTE:
REFER TO ST PAUL NOTES, DEMOLITION
AND REMOVAL NOTES, AND GENERAL
NOTES ON SHEET C101, REFER TO
EROSION CONTROL NOTES ON SHEET
C201.

NOTE:
STORM SEWER INLETS NOT SHOWN ON
PLAN MAY RECEIVE RUNOFF FROM
CONSTRUCTION ACTIVITIES. INSTALL
INLET SEDIMENT PROTECTION PER
DETAIL 2/C500 ON ALL STORM INLETS
THAT MAY RECEIVE RUNOFF.

ABBREVIATIONS	
BLDG	Building
BM	Bench Mark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

1. INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 3/C500 AND 4/C500.
2. REMOVE TREE IN ITS ENTIRETY INCLUDING STUMP.
3. EXISTING TREE SHALL REMAIN. PROTECT AT ALL TIMES. INSTALL TREE PROTECTION ZONE, REFER TO DETAIL 5/C500. IF EXCAVATION WITHIN 5- FEET OF TREE IS NECESSARY REMOVAL AND REPLACEMENT OF THE TREE WILL BE REQUIRED AND SHALL BE INCLUDED IN THE BASE BID.
4. EXISTING BRIDGE COLUMN/PIER SHALL REMAIN. PROTECT AT ALL TIMES.
5. REMOVE AND SALVAGE SIGNS AND STONE SLABS. COORDINATE WITH OWNER FOR NEW LOCATIONS.
6. EXISTING STORM MANHOLE SHALL REMAIN. PROTECT AT ALL TIMES.
7. REMOVE WATER LINE TO MAIN. CAP AT MAIN.
8. REMOVE WATER FOUNTAIN AND CONCRETE BASE SLAB IN ITS ENTIRETY.
9. UNDERGROUND POWER LINES SHALL REMAIN. PROTECT AT ALL TIMES.
10. EXISTING COMMUNICATION BOX SHALL BE RELOCATED. COORDINATE RELOCATION WITH UTILITY OWNER.
11. REMOVE GRAVEL SURFACE IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
12. APPROXIMATE LOCATION OF 100 YEAR FLOOD ELEVATION. ELEVATION = 707.00. NO DISTURBANCE BELOW 100 YEAR FLOOD PLAIN UNLESS INDICATED IN CIVIL DRAWINGS.
13. TREES SHALL REMAIN. PROTECT AT ALL TIMES.
14. REMOVE FENCE IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
15. EXISTING FENCE SHALL REMAIN. PROTECT AT ALL TIMES.
16. EXISTING WATER MAIN, GATE VALVE, HYDRANT SHALL REMAIN. PROTECT AT ALL TIMES.
17. EXISTING SANITARY SEWER SHALL REMAIN. PROTECT AT ALL TIMES.
18. EXISTING OVERHEAD POWER LINES AND POWER POLE SHALL REMAIN. PROTECT AT ALL TIMES.
19. SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE EXTENTS SHOWN FOR SANITARY SEWER CONNECTION TO EXISTING MANHOLE.
20. INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
21. CAP WATERMAIN SOUTH OF PROPOSED SERVICE CONNECTIONS AND ABANDON IN PLACE. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
22. REMOVE EXISTING HYDRANT, TEE, AND GATE VALVE. LOCATION OF FIRE HYDRANT IS APPROXIMATE, CONTRACTOR TO FIELD VERIFY LOCATION.

I hereby certify that this plan,
specification or report was prepared
by me or under my direct supervision
and that I am a duly registered
professional engineer under the laws
of the State of Minnesota

Name: Keith Matte
License No.: 46674

90% CONSTRUCTION SET

Revisions		
No.	Date	Description
02/04/2021		Design Development
02/10/2021		Watershed Review
04/16/2021		Site Plan Review
04/29/2021		Watershed Resubmittal
05/18/2021		Watershed Resubmittal

Project Information		
Phase:	DD	Date: 05/18/2021
Project No.:	20232	PIC / AIC:

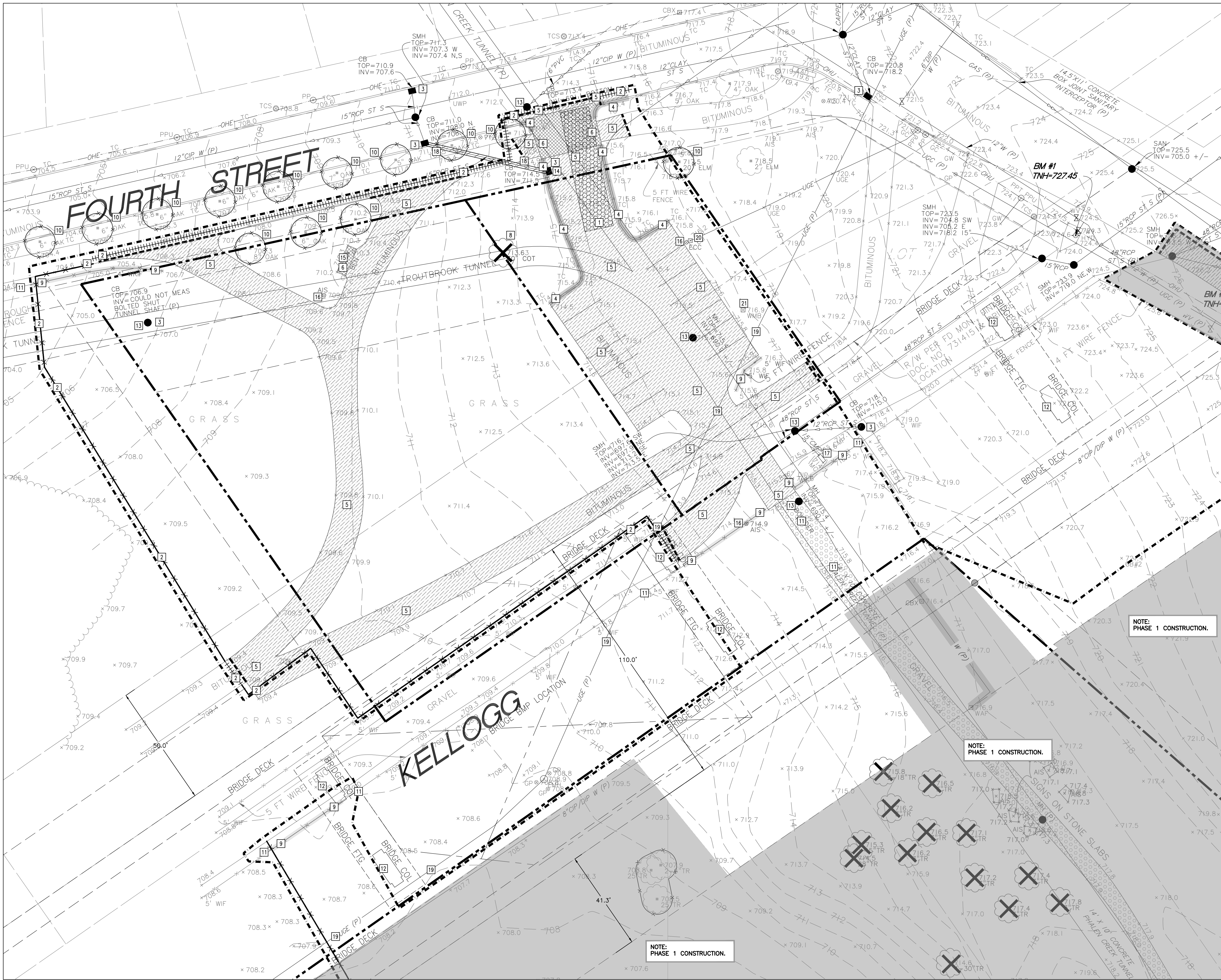
Project Name
Wakan Tipi Center

Sheet Title	
SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN	
Sheet Number	Current Revision

C100

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1 SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN
1"=20'

PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	XXXX
SEDIMENT CONTROL LOG	HHHHHHHHHH
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	----
CONSTRUCTION ENTRANCE	XXXXXX
BITUMINOUS REMOVAL	XXXXXX
CONCRETE REMOVAL	XXXXXX
CURB REMOVAL	XXXXXX
GRAVEL REMOVAL	XXXXXX
TREE REMOVAL	XXXXXX
TREE PROTECTION ZONE	XXXXXX
WATER MAIN REMOVAL	XXXXXX
FENCE REMOVAL	XXXXXX
ABANDON STORM SEWER	XXXXXX
PHASE 1 CONSTRUCTION	XXXXXX

ABBREVIATIONS	
BLDG	Building
BM	Bench Mark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FPE	Finished Floor Elevation
INVT	Invert
MAX	Maximum
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe

NOTE: STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAIL 2/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

NOTE: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FOTHOGRAPH AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [] ON PLAN.

- INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
- INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 3/C500 AND 4/C500.
- INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAIL 2/C500.
- REMOVE CURB AND GUTTER IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
- SAWCUT AND REMOVE BITUMINOUS PAVEMENT IN ITS ENTIRETY TO THE EXTENTS SHOWN.
- REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- REMOVE GRAVEL SURFACE IN ITS ENTIRETY TO THE EXTENTS SHOWN.
- REMOVE TREE IN ITS ENTIRETY INCLUDING STUMP.
- REMOVE FENCE IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
- EXISTING TREE SHALL REMAIN. PROTECT AT ALL TIMES. INSTALL TREE PROTECTION ZONE, REFER TO DETAIL 5/C500. IF EXCAVATION WITHIN 5- FEET OF TREE IS NECESSARY REMOVAL AND REPLACEMENT OF THE TREE WILL BE REQUIRED AND SHALL BE INCLUDED IN THE BASE BID.
- EXISTING FENCE SHALL REMAIN. PROTECT AT ALL TIMES.
- EXISTING BRIDGE COLUMN/PIER SHALL REMAIN. PROTECT AT ALL TIMES.
- EXISTING STORM MANHOLE SHALL REMAIN. PROTECT AT ALL TIMES.
- REMOVE CATCH BASIN IN ITS ENTIRETY. FOLLOW ALL CITY OF SAINT PAUL STANDARDS AND SPECIFICATIONS.
- REMOVE AND SALVAGE BENCH.
- REMOVE SIGN IN ITS ENTIRETY.
- EXISTING STORM SEWER INLET TO REMAIN. PROVIDE INLET SEDIMENT PROTECTION. PROTECT AT ALL TIMES.
- ABANDON STORM SEWER IN PLACE. BULKHEAD EXISTING STORM SEWER PIPE ON DOWNSTREAM SIDE. FILL ABANDONED PIPE WITH LEAN MIX BACKFILL. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
- UNDERGROUND POWER LINES SHALL REMAIN. PROTECT AT ALL TIMES.
- REMOVE AND SALVAGE EXISTING ELECTRICAL VEHICLE CHARGING STATION.
- EXISTING WATER MONITORING BOX SHALL BE RELOCATED. COORDINATE WITH SPRWS.

GENERAL NOTES:

- CONCRETE CURB AND GUTTER REMOVAL, PAVEMENT REMOVAL, AND UTILITY REMOVAL LIMITS ARE TO BE COORDINATED THE CITY OF SAINT PAUL AND UTILITY OWNER. REFER TO ALL CONSTRUCTION DOCUMENTS.
 - THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN WHILE WORKING WITHIN THE RIGHT-OF-WAY. THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY ENGINEERING DEPARTMENT PRIOR TO STREET ENCROACHMENT.
 - CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND REVIEW ALL CONSTRUCTION DOCUMENTS, GEOTECHNICAL REPORT AND RESPONSE ACTION PLAN. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ITEMS THAT SHOULD HAVE BEEN ANTICIPATED BY PERFORMING THE ABOVE.
 - THE CONSTRUCTION ENTRANCE, INDICATED ON THE PLAN IS SHOWN IN AN APPROXIMATE LOCATION. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO COORDINATE WITH THE CITY OF SAINT PAUL FOR THE EXACT CONSTRUCTION ENTRANCE LOCATION.
- DEMOLITION AND REMOVAL NOTES:**
- PRIOR TO START OF ANY CONSTRUCTION ACTIVITY, ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY OF SAINT PAUL AND CAPITOL REGION WATERSHED DISTRICT. PERIMETER SEDIMENT PROTECTION SHALL BE INSTALLED ALONG THE CONTOUR.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND MARK EXISTING UTILITIES 48 HOURS BEFORE CONSTRUCTION STARTS. THE ENGINEER, ARCHITECT OR OWNER DOES NOT GUARANTEE THAT ALL THE UTILITIES ARE MAINTAINED, OR IF MAINTAINED, ARE SHOWN CORRECTLY. CONTACT Gopher State One Call at 651-454-0002 FOR FIELD LOCATING EXISTING UTILITIES. CONTACT UTILITY OWNER IF DAMAGE OCCURS DUE TO CONSTRUCTION.
 - THERE MAY BE MISCELLANEOUS ITEMS TO BE REMOVED THAT ARE NOT IDENTIFIED ON THESE PLANS. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE DOCUMENTS TO OBTAIN A CLEAR UNDERSTANDING OF THE INTENDED SCOPE OF WORK.
 - PRIOR TO START OF CONSTRUCTION, DISCONNECT ALL GAS AND ELECTRIC SERVICES. COORDINATE DISCONNECTION OF EACH UTILITY WITH THE UTILITY OWNER. REMOVE ALL GAS AND ELECTRIC LINES UNDER PROPOSED BUILDING FOOTPRINT.
 - ANY UTILITIES NOT INDICATED FOR REMOVAL OR ABANDONMENT, ARE TO BE PROTECTED AT ALL TIMES.
 - EXISTING CONCRETE PAVEMENT AND CURB AND GUTTER SHOWN TO BE REMOVED WITHIN THE SCOPE OF THE PROJECT SHALL BE REMOVED FROM THE SAW CUT LINES TO THE NEAREST JOINT.
 - THE BACKGROUND INFORMATION WAS PREPARED BY SUNDE LAND SURVEYING. (952)881-2455
 - ALL WORK IN THE PUBLIC RIGHT OF WAY IS TO BE COORDINATED WITH THE CITY OF ST. PAUL. ROADWAY REPAIRS, BOULEVARD REPAIRS, AND TRAFFIC CONTROL ARE TO BE PER CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.

ST. PAUL'S NOTES:

- INSPECTION CONTACT: THE DEVELOPER SHALL CONTACT THE RIGHT OF WAY INSPECTOR CLINT MROZINSKI AT (651) 485-0418. (ONE WEEK PRIOR TO BEGINNING WORK) TO DISCUSS TRAFFIC CONTROL, PEDESTRIAN SAFETY AND COORDINATION OF ALL WORK IN THE PUBLIC RIGHT OF WAY. NOTE: IF A ONE WEEK NOTICE IS NOT PROVIDED TO THE CITY, ANY RESULTING DELAYS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- SAFE WORK SITE REQUIREMENTS: THE CONTRACTOR SHALL PROVIDE A CONTINUOUS, ACCESSIBLE AND SAFE PEDESTRIAN WALKWAY THAT MEETS ADA AND MN NUTCO STANDARDS IF WORKING IN A SIDEWALK AREA, AND TRAFFIC CONTROL PER MN NUTCO REQUIREMENTS FOR WORK IN THE PUBLIC RIGHT OF WAY.
- NO PRIVATE FACILITIES IN THE RIGHT OF WAY: THE DEVELOPER IS STRICTLY PROHIBITED FROM INSTALLING PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTACLES AND/OR LIGHTING IN THE CITY'S RIGHT OF WAY. THIS INCLUDES STUBBING CONDUIT OR CABLE INTO THE PUBLIC RIGHT OF WAY TO ACCOMMODATE UTILITY FEEDS TO THE SITE. COORDINATE WITH EACH UTILITY PRIOR TO CONSTRUCTION TO DETERMINE FEED POINTS INTO THE PROPERTY. UTILITIES ARE RESPONSIBLE FOR SECURING EXCAVATION PERMITS TO RUN THEIR SERVICE INTO THE SITE, AND (WHERE REQUIRED) SUBMITTING PLANS FOR REVIEW BY THE PUBLIC WORKS UTILITY REVIEW COMMITTEE.
- CITY OF ST. PAUL PERMIT REQUIREMENTS:
 - ORDERING OBSTRUCTION AND EXCAVATION PERMITS: CONTACT PUBLIC WORKS RIGHT OF WAY SERVICE DESK AT (651) 266-6151. **IT IS STRONGLY RECOMMENDED THAT CONTRACTORS CALL FOR COST ESTIMATES PRIOR TO BIDDING TO OBTAIN ACCURATE COST ESTIMATES.**
 - OBSTRUCTION PERMITS: THE CONTRACTOR MUST OBTAIN AN OBSTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEWALKS OR ALLEYS, OR IF DRIVING OVER CURBS.
 - EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS CLOSE TO THE RIGHT OF WAY, AND EXCAVATING INTO THE RIGHT OF WAY IS NEEDED TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY INSPECTOR.
 - FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER CITY OF ST. PAUL LEGISLATIVE CODES.
 - REQUIREMENTS TO WORK IN THE PUBLIC RIGHT OF WAY: ALL UTILITIES AND CONTRACTORS WORKING IN THE PUBLIC RIGHT OF WAY MUST BE REGISTERED, INSURED AND BONDED, AS RECOGNIZED BY THE PUBLIC WORKS SERVICE DESK. (651-266-6151).
- ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE BY A LICENSED AND BONDED CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION (651-266-6120). SIDEWALK GRADES MUST BE CARRIED ACROSS DRIVEWAYS.
- RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-292-6600. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS" - ALL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.
- SIGNS REGULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY SHALL BE INSTALLED BY THE PROPERTY OWNER OR CONTRACTOR OUTSIDE OF THE PUBLIC RIGHT-OF-WAY. SIGNS APPROVED BY PUBLIC WORKS TRAFFIC ENGINEERING REGULATING PARKING AND/OR TRAFFIC IN THE PUBLIC RIGHT-OF-WAY FOR THIS DEVELOPMENT SHALL BE INSTALLED BY CITY FORCES AT THE EXPENSE OF THE DEVELOPMENT. CONTACT TRAFFIC ENGINEERING 651-266-6200 SIX WEEKS IN ADVANCE OF NEEDED SIGNS).
- ABANDONING EXISTING SEWER SERVICE OR MAKING NEW CONNECTIONS TO CITY SEWER MUST BE DONE TO CITY STANDARDS BY A LICENSED HOUSE DRAIN CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SEWER SECTION (651-266-6234).
- ALL WATER MAIN AND SERVICES TO BE INSTALLED ACCORDING TO "SPRWS STANDARDS FOR INSTALLATION OF WATER MAINS", AND "SPRWS WATER CODE".
- ALL EXISTING WATER SERVICES NOT BEING REUSED MUST BE CUT-OFF AND ABANDONED PER SPRWS WATER CODE.
- THE CONTRACTOR SHALL CONTACT JOHN MCNAMARA, GENERAL FOREMAN, LIGHTING - SIGNAL MAINTENANCE, (651-266-9780), IF REMOVAL OR RELOCATION OF EXISTING FACILITIES IS REQUIRED OR IN THE EVENT OF DAMAGE TO THE LIGHTING OR SIGNAL UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY (AND RELATED COSTS) FOR ANY DAMAGE OR RELOCATIONS.
- THE INSTALLATION OF PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTACLES AND/OR LIGHTING IS STRICTLY PROHIBITED IN THE CITY'S ROW (RIGHT OF WAY). CONTRACTOR IS TO CONTACT ZACH JORGENSEN, CITY FORESTER (651-632-2437) PRIOR TO IMPACTING ANY BOULEVARD TREES.
- BUSINESS SIGNS WILL REQUIRE A SEPARATE REVIEW AND SIGN PERMIT FROM THE DEPARTMENT OF SAFETY AND INSPECTIONS. SITE PLAN APPROVAL DOES NOT CONSTITUTE APPROVAL OF BUSINESS SIGNS SHOWN ON THE SITE PLAN. CONTACT YAYA DIAITA OF DSI ZONING (651-266-9080) IF YOU HAVE ANY QUESTIONS ABOUT SIGNS.
- CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS. CALL SAM GIBSON OF PUBLIC WORKS SURVEYING (651-266-6075) IF YOU HAVE ANY QUESTIONS.
- AS PER THE CITY'S "STANDARD SPECIFICATION FOR STREET OPENINGS" POLICY, RESTORATION ON ROADWAY SURFACES LESS THAN 5 YEARS OLD WILL REQUIRE FULL WIDTH MILL AND OVERLAY OR ADDITIONAL DEGRADATION FEES. PAVEMENT RESTORATION SHALL BE COMPLETED BY THE ST. PAUL PUBLIC WORKS STREET MAINTENANCE DIVISION. ALL RELATED COSTS ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR. CONTACT KEVIN NELSON AT 651-266-9700 FOR ESTIMATE OF COSTS FOR PAVEMENT RESTORATION.
- PIPE MUST BE MECHANICAL JOINT UNDERNEATH THE BUILDING FOOTPRINT AND UP TO TEN FEET OUTSIDE OF THE BUILDING FOOTPRINT.
- WATER SERVICES TO BE INSTALLED ACCORDING TO SPRWS (STANDARDS FOR THE INSTALLATION OF WATER MAINS."
- A FOUR-SIDED TRENCH BOX IS REQUIRED ON ALL EXCAVATIONS DEEPER THAN 5 FEET WHERE UNDERGROUND WORK OR INSPECTION IS TO BE PERFORMED BY SPRWS. LADDERS ARE REQUIRED AND MUST EXTEND 3 FEET ABOVE SURFACE OF THE TRENCH. SIDEWALKS, PAVEMENTS, DUCTS AND APPURTENANT STRUCTURE SHALL NOT BE UNDERMINED UNLESS A SUPPORT SYSTEM OR OTHER METHOD OF PROTECTION IS PROVIDED. TRENCHES IN EXCESS OF 20 FEET IN DEPTH MUST BE SIGNED OFF BY A REGISTERED PROFESSIONAL ENGINEER. EXCAVATED MATERIAL MUST BE KEPT A MINIMUM OF 2 FEET FROM THE EDGE OF THE TRENCH.
- MAINTAIN 6 FEET OF COVER OVER ALL WATER MAINS AND SERVICES.
- PIPE MATERIAL FOR 6" DUCTILE IRON PIPE MUST BE CLASS 52. PIPE MATERIAL FOR 6" AND 4" DUCTILE IRON PIPE MUST BE CLASS 53.
- MAINTAIN 3 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR A 12-INCH SEPARATION WITH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE 4-10 FOR TYPICAL WATER MAIN OFFSETS.
- REFER TO SPRWS "STANDARDS FOR THE INSTALLATION OF WATER MAINS" STANDARD PLATE D-11 FOR RESTRAINED PIPE REQUIREMENT.
- ALL WATER SERVICE VALVE BOXES WITHIN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION.
- ALL PIPE WORK INSIDE OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF SAINT PAUL.

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Minnesota

Name: Keith Matte
License No.: 46674

90% CONSTRUCTION SET

Revisions

No.	Date	Description
02/04/2021		Design Development
02/10/2021		Watershed Review
04/16/2021		Site Plan Review
04/16/2021		Watershed Resubmittal
05/18/2021		Watershed Resubmittal

Project Information

Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name

Wakan Tipi Center

Sheet Title

SELECTIVE SITE
DEMOLITION AND
EROSION CONTROL PLAN

Sheet Number

C101

Current Revision

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Revisions		
No.	Date	Description
	02/04/2021	Design Development
	02/10/2021	Watershed Review
	04/16/2021	Site Plan Review
	04/29/2021	Watershed Resubmittal
	05/18/2021	Watershed Resubmittal

Project Information		
Phase:	DD	Date: 05/18/2021
Project No.:	20232	PIC / AIC:

Project Name
Wakan Tipi Center

Sheet Title
Demolition of Phase 1
Temporary Pavements

Sheet Number
C102

Current Revision

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PROPOSED PLAN SYMBOLS

CONSTRUCTION LIMITS	---
SILTATION FENCE	---X---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
PROPOSED CONTOUR	---
DRAIN TILE	---
STORM SEWER	---
EX. APPROXIMATE 100 YEAR FLOOD ELEV. (707)	---
CATCH BASIN	---
MANHOLE	---
FLARED END SECTION WITH RIPRAP	---
FLARED END SECTION	---

ABBREVIATIONS

BLDG	Building
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
TW	Top of Wall
W.O.	Washout

NOTE: REFER TO ST. PAUL NOTES AND EROSION CONTROL NOTES ON SHEET C201.

TOTAL SITE APPROXIMATE DISTURBED AREA IS 5.16 ACRES

NOTE: STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAIL 2/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

WALKWAY NOTES:

- GRADING CONTRACTOR IS TO COORDINATE WITH PAVING CONTRACTOR SO THAT ALL STEPS AND LANDINGS ARE SLOPED PER CODE.
- ALL SIDEWALK LONGITUDINAL AND TRANSVERSE SLOPES ARE TO BE PER CODE.

- KEYED NOTES**
- KEYED NOTES ARE DENOTED BY [NO] ON PLAN.
- INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 3/C500 AND 4/C500.
 - INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAIL 2/C500.
 - INSTALL MN/DOT 3885 CATEGORY 3 TEMPORARY STRAW FIBER EROSION CONTROL BLANKET.
 - FILTRATION BASIN IS TO BE CONSTRUCTED AT THE END OF GRADING OPERATIONS ONCE THE TRIBUTARY AREA'S FINAL STABILIZATION HAS BEEN INSTALLED. REFER TO DETAIL 4/C501 FOR FILTRATION BASIN CROSS SECTION. CONSTRUCTION TRAFFIC IN FILTRATION AREA IS NOT ALLOWED AFTER AREA HAS BEEN EXCAVATED. PRIOR TO FINAL STABILIZATION, LOOSEN SOIL WITH MECHANICAL TILLER. FILTRATION AREA IS NOT AN APPROVED BORROW SITE AND IS NOT TO BE USED FOR A TEMPORARY SEDIMENT BASIN ONCE BASIN SUBGRADE ELEVATION HAS BEEN EXCAVATED. CONTRACTOR SHALL ENSURE THAT BASIN FILTRATES AT A MINIMUM RATE OF 1-INCH PER HOUR USING A DOUBLE RING INFILTRATOR TEST BEFORE FINAL ACCEPTANCE. DOUBLE RING INFILTRATOR TEST SHALL BE SIGNED BY A REGISTERED GEOTECHNICAL ENGINEER AND SUBMITTED TO THE CITY AND ENGINEER FOR REVIEW BEFORE FINAL APPROVAL.
 - APPROXIMATE LOCATION OF EXISTING 100 YEAR FLOOD ELEVATION. ELEVATION = 707.00.
 - APPROXIMATE LOCATION OF TEMPORARY CONTAINED CONCRETE WASH OUT BAY. REFER TO THE MINNESOTA'S MPDS/SDS GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY FOR MORE DETAILS. SELF CONTAINED CONCRETE WASHOUTS ON CONCRETE DELIVERY TRUCKS IS AN ACCEPTABLE ALTERNATIVE TO ON-SITE CONTAINMENT.
 - INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
 - WET POND WITH IMPERMEABLE LINER IS TO BE CONSTRUCTED AT THE END OF GRADING OPERATIONS ONCE THE TRIBUTARY AREA'S FINAL STABILIZATION HAS BEEN INSTALLED. REFER TO DETAIL 7/C502 FOR WET POND CROSS SECTION.
 - INSTALL RIPRAP AT THE END OF THE SPLASH BLOCK PER DETAIL 4/C502 THAT MEETS THE REQUIREMENTS OF A 12-INCH PIPE.
 - INSTALL RIPRAP AT THE FILTRATION BASIN EMERGENCY OVERFLOW PER DETAIL 4/C502 THAT MEETS THE REQUIREMENTS OF AN 18-INCH PIPE.

GRADING NOTES:

- THE CONTRACTOR SHALL VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS AND FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR WORK THAT COULD HAVE BEEN IDENTIFIED BY A SITE VISIT OR CONSTRUCTION DOCUMENT REVIEW.
- THE BACKGROUND INFORMATION WAS PREPARED BY SLUDE LAND SURVEYING (952)881-2455.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND MARK ALL EXISTING UTILITIES 48 HOURS BEFORE CONSTRUCTION STARTS. THE ENGINEER, ARCHITECT OR OWNER DOES NOT GUARANTEE THAT ALL THE UTILITIES SHOWN OR IF MARKED, ARE SHOWN CORRECTLY. CONTACT Gopher One at 651-454-0002 FOR FIELD LOCATING EXISTING UTILITIES. CONTACT UTILITY OWNER IF DAMAGE OCCURS DUE TO CONSTRUCTION.
- PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED FOR REMOVAL.
- NOTIFY CITY BUILDING INSPECTOR BEFORE TRENCHING AND EXCAVATION WORK COMMENCES. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO START OF CONSTRUCTION.
- ALL SPOT ELEVATIONS SHOWN AS 19.52, FOR EXAMPLE, ARE TO BE UNDERSTOOD TO MEAN 719.52.
- ALL SPOT ELEVATIONS ALONG THE CURB-LINE INDICATE THE ELEVATION OF THE GUTTER, UNLESS NOTED OTHERWISE.
- NO LANDSCAPED SLOPES ARE TO EXCEED 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) UNLESS NOTED OTHERWISE.
- ACCESSIBLE PARKING AREAS SHALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 2%.
- PROVIDE POSITIVE DRAINAGE FROM BUILDINGS AT ALL TIMES.
- UPON COMPLETION OF THE GRADING AND UTILITY WORK, THE CONTRACTOR SHALL CERTIFY THAT ALL GRADING AND UTILITY WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED GRADING AND UTILITY PERMITS. AN AS-BUILT GRADING AND UTILITY PLAN SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR HIRED BY THE CONTRACTOR. SURVEY SHALL BE PROVIDED TO CIVIL ENGINEER.
- PRIOR TO ISSUANCE OF BUILDING PERMITS, ALL NECESSARY EROSION CONTROL DEVICES MUST BE IN PLACE AND FUNCTIONING. THE CITY (AND WATERSHED DISTRICT) WILL INSPECT THE SITE TO DETERMINE ITS SUITABILITY FOR BUILDING ACTIVITIES. IF THE PUBLIC UTILITIES HAVE NOT BEEN INSTALLED AT THIS POINT, IT MAY BE NECESSARY TO WITHHOLD BUILDING PERMITS FOR VARIOUS LOTS TO ALLOW THE CONTRACTOR ADEQUATE SPACE TO PERFORM THIS WORK.
- ALL DEBRIS CREATED IN THE PROCESS OF CLEARING AND GRADING THE SITE SHALL BE REMOVED FROM THE SITE. THIS INCLUDES TREES AND SHRUBS. UNDER NO CIRCUMSTANCES SHALL THIS TYPE OF MATERIAL BE BURIED OR BURNED ON THE SITE.
- THE CONTRACTOR MAY STRIP AND SALVAGE TOPSOIL FOR POTENTIAL RE-SPREADING ON THE SITE, IF APPROVED BY THE LANDSCAPE ARCHITECT AND/OR SPECIFICATIONS. SIX INCHES OF TOPSOIL - AFTER COMPACTION - SHALL BE RE-SPREAD PRIOR TO SEEDING AND MULCHING. EXCESS TOPSOIL MAY BE REMOVED FROM THE SITE PROVIDING THERE IS ADEQUATE TOPSOIL REMAINING TO PROPERLY FINISH THE SITE AS NOTED ABOVE. THE TOPSOIL STRIPPING, STOCKPILING AND RE-SPREADING SHALL BE DONE IN ACCORDANCE TO, AND NOTED ON, THE APPROVED GRADING PLAN AND SPECIFICATIONS. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ANY SPECIAL TOPSOIL OR PLANTING REQUIREMENTS.
- ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION. EROSION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT SEDIMENT FROM RUNNING OFF ONTO ADJACENT PROPERTIES. ANY DAMAGE TO ADJACENT PROPERTIES MUST BE CORRECTED AND RESTORED AS SOON AS PERMISSION IS GRANTED FROM THE ADJACENT PROPERTY OWNER(S).
- IF CONSTRUCTION OF THE SITE WORK PROCEEDS THROUGH THE WINTER MONTHS, ANY DISTURBED AREAS OUTSIDE THE BUILDING FOOTPRINTS ARE TO BE MINIMALLY STABILIZED PRIOR TO MARCH 1ST AS FOLLOWS: AREAS PLANNED TO RECEIVE PAVEMENTS ARE TO HAVE CLASS 5 BASE INSTALLED; ALL OTHER DISTURBED AREAS ARE TO BE SEED, STRAW MULCH PLACED, AND DISC-ANCHORED.
- WINTER MULCHING:
 - SNOW MULCHING SHALL BE DEFINED AS MULCH MATERIAL SPREAD OVER THE TOP OF SNOW SO THAT THE MULCH MELTS THROUGH THE SNOW AND STICKS TO THE EXPOSED SOILS.
 - FROZEN GROUND MULCHING SHALL BE DEFINED AS MULCH MATERIAL SPREAD OVER FROZEN GROUND. MULCH MATERIALS THAT DO NOT REQUIRE DISC-ANCHORING INTO THE SOIL MAY BE PLACED WITHOUT MODIFICATION. MULCH MATERIALS THAT REQUIRE DISC-ANCHORING MAY BE DISC-ANCHORED WITH HYDRAULIC SOIL STABILIZERS OR MAY BE FROZEN TO THE SOIL BY APPLYING WATER, AT A RATE OF 2000 GALLONS PER ACRE, OVER THE MULCH AS A SUBSTITUTION FOR DISC-ANCHORING.
- THE CONTRACTOR SHALL LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE.

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90% CONSTRUCTION SET

Revisions		
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04/29/2021		Watershed Resubmittal
05/18/2021		Watershed Resubmittal

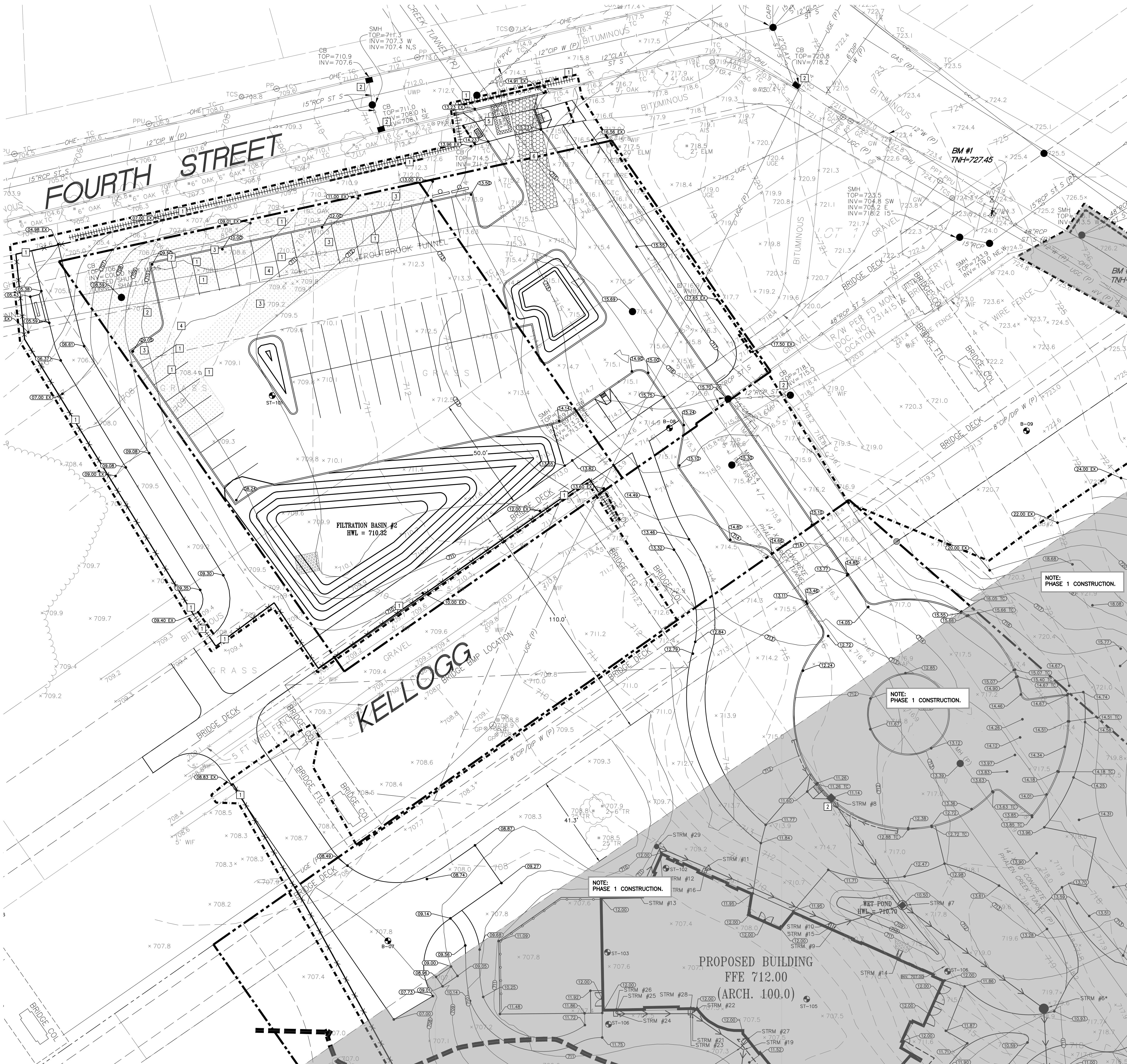
Project Information		
Phase:	DD	Date: 05/18/2021
Project No.:	20232	PIC / AIC:

Project Name
Wakan Tipi Center

Sheet Title
Grading, Drainage, and Erosion Control Plan

Sheet Number
C200

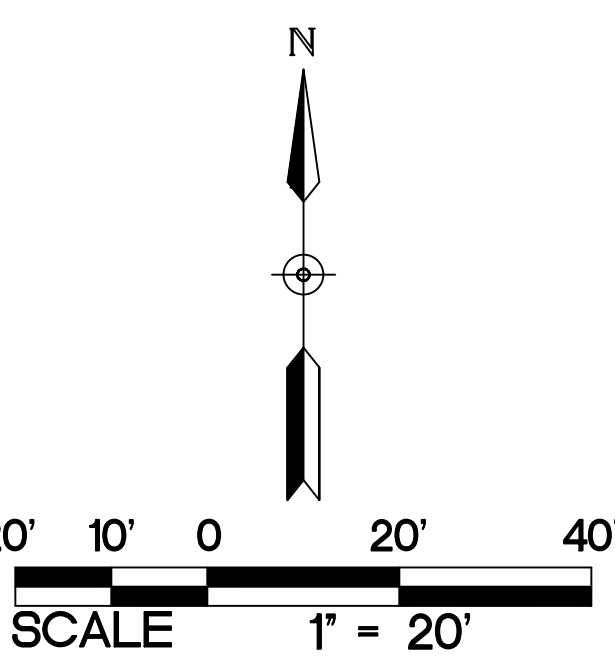
Current Revision



PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
SILTATION FENCE	XXXXXX
SEDIMENT CONTROL LOG	
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
PROPOSED CONTOUR	---
DRAIN TILE	---
STORM SEWER	---
CATCH BASIN	●
MANHOLE	●
EROSION CONTROL BLANKET (TEMPORARY)	---
RIPRAP	---
CONSTRUCTION ENTRANCE	---
SPOT ELEVATION	---
SOIL BORING	---
CONCRETE WASHOUT AREA	---
PHASE 1 CONSTRUCTION	---

ABBREVIATIONS	
BLDG	Building
BM	Bench Mark
BW	Bottom of Wall
CB	Catch Basin
CONC	Concrete
ELEV	Elevation
EX	Existing
FTE	Finished Floor Elevation
HWL	High Water Level
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
TW	Top of Wall
W.O.	Without

NOTE: REFER TO GRADING NOTES ON SHEET C200.



KEYED NOTES ARE DENOTED BY [NO] ON PLAN.

1. INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 3/C500 AND 4/C500.
2. INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAIL 2/C500.
3. INSTALL MN/DOT 3885 CATEGORY 3 TEMPORARY STRAW FIBER EROSION CONTROL BLANKET.
4. FILTRATION BASIN IS TO BE CONSTRUCTED AT THE END OF GRADING OPERATIONS ONCE THE TRIBUTARY AREA'S FINAL STABILIZATION HAS BEEN INSTALLED. REFER TO DETAIL 8/C502 FOR FILTRATION BASIN CROSS SECTION. **CONSTRUCTION TRAFFIC IN FILTRATION AREA IS NOT ALLOWED AFTER AREA HAS BEEN EXCAVATED. PRIOR TO FINAL STABILIZATION, LOOSEN SOIL WITH MECHANICAL TILLER. FILTRATION AREA IS NOT AN APPROVED BORROW SITE AND IS NOT TO BE USED FOR A TEMPORARY SEDIMENT BASIN ONCE BASIN SUBGRADE ELEVATION HAS BEEN EXCAVATED. CONTRACTOR SHALL ENSURE THAT BASIN FILTRATES AT A MINIMUM RATE OF 1-INCH PER HOUR USING A DOUBLE RING INFILTRATOR TEST BEFORE FINAL ACCEPTANCE. DOUBLE RING INFILTRATOR TEST SHALL BE SIGNED BY A REGISTERED GEOTECHNICAL ENGINEER AND SUBMITTED TO THE CITY AND ENGINEER FOR REVIEW BEFORE FINAL APPROVAL.**
5. APPROXIMATE LOCATION OF TEMPORARY CONTAINED CONCRETE WASH OUT BIN. REFER TO THE MINNESOTA'S NPDES/SDS GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY FOR MORE DETAILS. SELF CONTAINED CONCRETE WASHOUTS ON CONCRETE DELIVERY TRUCKS IS AN ACCEPTABLE ALTERNATIVE TO ON-SITE CONTAINMENT.
6. INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
7. INSTALL RIPRAP AT THE FILTRATION BASIN EMERGENCY OVERFLOW PER DETAIL 4/C502 THAT MEETS THE REQUIREMENTS OF AN 18-INCH PIPE.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. THE CITY ENGINEERING DEPARTMENT AND WATERSHED DISTRICT MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION CONTROL FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. THE CONTRACTOR IS RESPONSIBLE TO SCHEDULE A PRE-CONSTRUCTION GRADING MEETING ON-SITE WITH THE CITY AND WATERSHED DISTRICT. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH DAY.
2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE CITY OR WATERSHED DISTRICT, BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
3. NO OBSTRUCTIONS SHALL BE MADE FROM THE ELEVATIONS SHOWN ON THE APPROVED GRADING PLAN, WITHOUT PRIOR APPROVAL FROM THE CIVIL ENGINEER.
4. FOR SITES GREATER THAN 1.0 ACRE, AS REQUIRED BY THE MPCA PERMIT REQUIREMENTS, THE PERMIT APPLICANT MUST KEEP AN EROSION CONTROL INSPECTION LOG. INSPECTION MUST BE MADE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER EVERY RAIN EVENT. THE INSPECTION RECORD MUST BE MADE AVAILABLE TO THE CITY AND WATERSHED DISTRICT WITHIN 24 HOURS OF REQUEST.
5. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATORS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
6. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
7. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY CITY OR WATERSHED DISTRICT, THROUGHOUT THE DURATION OF CONSTRUCTION.
8. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE CITY OR WATERSHED DISTRICT.
9. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
10. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED OR AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE SEEDED AND MULCHED AS SET FORTH IN THE FOLLOWING PARAGRAPHS WITHIN 7 DAYS:
 - A. ALL SEEDED AREAS SHALL BE EITHER MULCHED AND DISC-ANCHORED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION. TEMPORARY STRAW MULCH SHALL BE DISC-ANCHORED AND APPLIED AT A UNIFORM RATE OF NOT LESS THAN TWO TONS PER ACRE AND NOT LESS THAN 80% COVERAGE.
 - B. IF THE GRADED AREA IS ANTICIPATED TO BE RE-DISTURBED/DEVELOPED WITHIN SIX MONTHS, PROVIDE A TEMPORARY VEGETATIVE COVER CONSISTING OF MINNESOTA DEPARTMENT OF TRANSPORTATION (ANDOT) SEED MIXTURE 21-111 (CATS), OR 21-112 (WINTER WHEAT), AT A RATE OF 100 POUNDS PER ACRE.
 - C. IF GRADED AREA WILL NOT BE DEVELOPED FOR A PERIOD GREATER THAN SIX MONTHS, PROVIDE A SEMI-PERMANENT VEGETATIVE COVER OF SEED MIXTURE MNDOT 22-112 AT A RATE OF 40 POUNDS PER ACRE.
 - D. GRADING BONDS OR THE EQUIVALENT SECURITIES SHALL BE RETAINED UNTIL TURF HAS GERMINATED AND SURVIVED A 60-DAY GROWING PERIOD.
 - E. ALL AREAS THAT WILL NOT BE MOWED OR MAINTAINED AS PART OF THE ULTIMATE DESIGN WILL BE PERMANENTLY RESTORED USING SEED MIXTURE MNDOT 25-141 AT A RATE OF 50 POUNDS PER ACRE.
 - F. WHENEVER OTHER EROSION AND SEDIMENT CONTROL PRACTICES ARE INADEQUATE, TEMPORARY ON-SITE SEDIMENT BASINS THAT CONFORM TO THE CRITERIA FOR ON-SITE DETENTION BASINS SHALL BE PROVIDED.
 - G. MULCH, HYDROMULCH, AND TACKIFIERS MAY NOT BE USED FOR STABILIZATION IN SWALES OR DRAINAGE DITCHES UNLESS THE LONGITUDINAL SLOPE IS LESS THAN 2 PERCENT.
 - H. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHEN STORM SEWER CATCH BASINS ARE NECESSARY DURING CONSTRUCTION, SEDIMENT PROTECTION DEVICES AS DETAILED SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
11. GRADING ACTIVITIES PROPOSED TO BEGIN AFTER OCTOBER 15 WILL REQUIRE AN APPROVED PHASING SCHEDULE. THE AREA OF LAND THAT THE CITY WILL ALLOW TO BE DISTURBED AT THIS TIME OF YEAR WILL BE SEVERELY LIMITED. THE CITY WILL ALSO REQUIRE ADDITIONAL EROSION CONTROL DEVICES, I.E., TEMPORARY SEDIMENT BASINS, DORMANT SEEDING AND HIGH RATES OF APPLICATION OF BOTH SEED AND MULCH.
12. FILTER BLANKET AND RIPRAP SHALL BE INSTALLED ON THE DOWNSTREAM SIDES OF ALL STORM SEWER OUTLETS 24 HOURS AFTER CONSTRUCTION AS INDICATED AND DETAILED. ALL RIPRAP SHALL BE INSTALLED WITH A FILTER MATERIAL MEETING THE MNDOT SPECIFICATIONS FOR RIPRAP AND FILTER MATERIAL.
13. TO MINIMIZE EROSION, ALL 3:1 SLOPES SHALL BE COVERED WITH A MN/DOT 3885 CATEGORY 3 STRAW EROSION CONTROL BLANKETS OR STAKED SOD.
14. ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS AND DITCHES SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES.
15. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION OR AS DIRECTED BY THE CITY AND/OR WATERSHED DISTRICT.

ST. PAUL'S NOTES:

1. INSPECTION CONTACT: THE DEVELOPER SHALL CONTACT THE RIGHT OF WAY INSPECTOR CLINT WROZINSKI AT (651) 485-0418 (ONE WEEK PRIOR TO BEGINNING WORK) TO DISCUSS TRAFFIC CONTROL, PEDESTRIAN SAFETY AND COORDINATION OF ALL WORK IN THE PUBLIC RIGHT OF WAY. NOTE: IF A ONE WEEK NOTICE IS NOT PROVIDED TO THE CITY, ANY RESULTING DELAY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. SAFE WORK SITE REQUIREMENTS: THE CONTRACTOR SHALL PROVIDE A CONTINUOUS, ACCESSIBLE AND SAFE PEDESTRIAN WALKWAY THAT MEETS ADA AND MIN MUTCD STANDARDS IF WORKING IN A SIDEWALK AREA, AND TRAFFIC CONTROL PER MN MUTCD REQUIREMENTS FOR WORK IN THE PUBLIC RIGHT OF WAY.
3. NO PRIVATE FACILITIES IN THE RIGHT OF WAY: THE DEVELOPER IS STRICTLY PROHIBITED FROM INSTALLING PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTACLES AND/OR LIGHTING IN THE CITY'S RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY PRIVATE FACILITIES WITH THE CITY. COORDINATE WITH EACH UTILITY PRIOR TO CONSTRUCTION TO DETERMINE FEED POINTS INTO THE PROPERTY. UTILITIES ARE RESPONSIBLE FOR SECURING UTILITY SERVICES TO RUN THEIR SERVICE INTO A SITE, AND (WHERE REQUIRED) SUBMITTING PLANS FOR REVIEW BY THE PUBLIC WORKS UTILITY REVIEW COMMITTEE.
4. CITY OF ST. PAUL PERMIT REQUIREMENTS:
 - 4.1. ORDERING OBSTRUCTION AND EXCAVATION PERMITS: CONTACT PUBLIC WORKS' RIGHT OF WAY SERVICE DESK AT (651) 266-6151. **IT IS STRONGLY RECOMMENDED THAT CONTRACTOR WATER FOR TO BE DONE TO OBTAIN AN ACCURATE COST ESTIMATE.**
 - 4.2. OBSTRUCTION PERMITS: THE CONTRACTOR MUST OBTAIN AN OBSTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEWALKS OR ALLEYS, OR IF DRIVING OVER CURBS.
 - 4.3. EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS CLOSE TO THE RIGHT OF WAY, AND EXCAVATING INTO THE RIGHT OF WAY IS NEEDED TO FACILITATE CONSTRUCTION OF THE CONTRACTOR.
 - 4.4. FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER CITY OF ST. PAUL LEGISLATIVE CODES.
 - 4.5. REQUIREMENTS TO WORK IN THE PUBLIC RIGHT OF WAY:

ALL UTILITIES AND CONTRACTORS WORKING IN THE PUBLIC RIGHT OF WAY MUST BE REGISTERED, INSURED AND BONDED, AS RECOGNIZED BY THE PUBLIC WORKS SERVICE DESK. (651-266-6151).
5. ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE BY A LICENSED AND BONDED CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION (651-266-6210). SIDEWALK GRADES MUST BE CARRIED ACROSS DRIVEWAYS.
6. RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-292-6600. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS" AND ARE AVAILABLE AT THE PERMIT OFFICE.
7. SIGNS REGULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY SHALL BE INSTALLED BY THE PROPERTY OWNER OR CONTRACTOR OUTSIDE OF THE PUBLIC RIGHT-OF-WAY. SIGNS APPROVED BY PUBLIC WORKS TRAFFIC ENGINEERING REGulating PARKING AND/OR TRAFFIC IN THE PUBLIC RIGHT-OF-WAY FOR THIS DEVELOPMENT SHALL BE INSTALLED BY CITY FORCES AT THE EXPENSE OF THE DEVELOPMENT. CONTACT TRAFFIC ENGINEERING 651-266-6200 SIX WEEKS IN ADVANCE OF NEEDED SIGN(S).
8. ABANDONING EXISTING SEWER SERVICE OR MAKING NEW CONNECTIONS TO CITY SEWER MUST BE DONE TO CITY STANDARDS BY A LICENSED HOUSE DRAIN CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SEWER SECTION (651-266-6234).
9. ALL WATER MAIN AND SERVICES TO BE INSTALLED ACCORDING TO "SPRWS STANDARDS FOR INSTALLATION OF WATER MAINS", AND "SPRWS WATER CODE".
10. ALL EXISTING WATER SERVICES NOT BEING REUSED MUST BE CUT-OFF AND ABANDONED PER SPRWS WATER CODE.
 - 11.1. THE INSTALLATION OF PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTACLES AND/OR LIGHTING IS STRICTLY PROHIBITED IN THE CITY'S ROW (RELATED CODES).
12. CONTRACTOR IS TO CONTACT ZACH JORGENSEN, CITY FORESTER (651-632-2437) PRIOR TO IMPACTING ANY BOULEVARD TREES.
13. BUSINESS SIGNS WILL REQUIRE A SEPARATE REVIEW AND SIGN PERMIT FROM THE DEPARTMENT OF SAFETY AND INSPECTIONS. SITE PLAN APPROVAL DOES NOT CONSTITUTE APPROVAL OF BUSINESS SIGNS SHOWN ON THE SITE PLAN. CONTACT YATA DIAITA OF DSI ZONING (651-266-9080) IF YOU HAVE ANY QUESTIONS ABOUT SIGNS.
14. CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS. CALL SAM GIBSON OF PUBLIC WORKS SURVEYING (651-266-6075) IF YOU HAVE ANY QUESTIONS.
15. AS PER THE CITY'S "STANDARD SPECIFICATION FOR STREET OPENINGS" POLICY, RESTORATION ON ROADWAY SURFACES LESS THAN 5 YEARS OLD WILL REQUIRE FULL WIDTH MILL AND OVERLAY OR ADDITIONAL DEGRADATION FEES. PAVEMENT RESTORATION SHALL BE COMPLETED BY THE ST. PAUL PUBLIC WORKS STREET MAINTENANCE DIVISION. ALL RELATED COSTS ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR. CONTACT KEVIN NELSON AT 651-266-9700 FOR ESTIMATE OF COSTS FOR PAVEMENT RESTORATION.
16. PIPE MUST BE MECHANICAL JOINT UNDERNEATH THE BUILDING FOOTPRINT AND UP TO TEN FEET OUTSIDE OF THE BUILDING FOOTPRINT.
17. WATER SERVICES TO BE INSTALLED ACCORDING TO SPRWS STANDARDS FOR THE INSTALLATION OF WATER MAINS.
 18. A FOUR-SIDED TRENCH BOX IS REQUIRED ON ALL EXCAVATIONS DEEPER THAN 5 FEET WHERE UNDERGROUND WORK OR INSPECTION IS TO BE PERFORMED BY SPRWS. LADDERS ARE REQUIRED AND MUST EXTEND 3 FEET ABOVE THE SURFACE OF THE TRENCH. SIDEWALKS, PAVEMENTS, DUCTS AND APPURTENANT STRUCTURE SHALL NOT BE UNDERMINED UNLESS A SUPPORT SYSTEM OR ANOTHER METHOD OF PROTECTION IS PROVIDED. TRENCHES IN EXCESS OF 20 FEET IN DEPTH MUST BE SIGNED OFF BY A REGISTERED PROFESSIONAL ENGINEER. EXCAVATED MATERIAL MUST BE KEPT A MINIMUM OF 2 FEET FROM THE EDGE OF THE TRENCH.
 19. MAINTAIN 8 FEET OF COVER OVER ALL WATER MAINS AND SERVICES.
 20. PIPE MATERIAL FOR 8" DUCTILE IRON PIPE MUST BE CLASS 52, PIPE MATERIAL FOR 6" AND 4" DUCTILE IRON PIPE MUST BE CLASS 53.
 21. MAINTAIN 3 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR A 12-INCH SEPARATION WITH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE d-10 FOR TYPICAL WATER MAIN OFFSETS.
 22. REFER TO SPRWS STANDARDS FOR THE INSTALLATION OF "WATER MAINS" STANDARD PLATE D-11 FOR RESTRAINED PIPE REQUIREMENT.
 23. ALL WATER SERVICE VALVE BOXES WITHIN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION.
 24. ALL PIPE WORK INSIDE OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF SAINT PAUL.

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Minnesota.

Name: Keith Matte
License No.: 46674

90% CONSTRUCTION SET

Revisions

No.	Date	Description
02/04/2021		Design Development
02/10/2021		Watershed Review
04/16/2021		Site Plan Review
04/29/2021		Watershed Resubmittal
05/18/2021		Watershed Resubmittal

Project Information

Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name

Wakan Tipi Center

Sheet Title

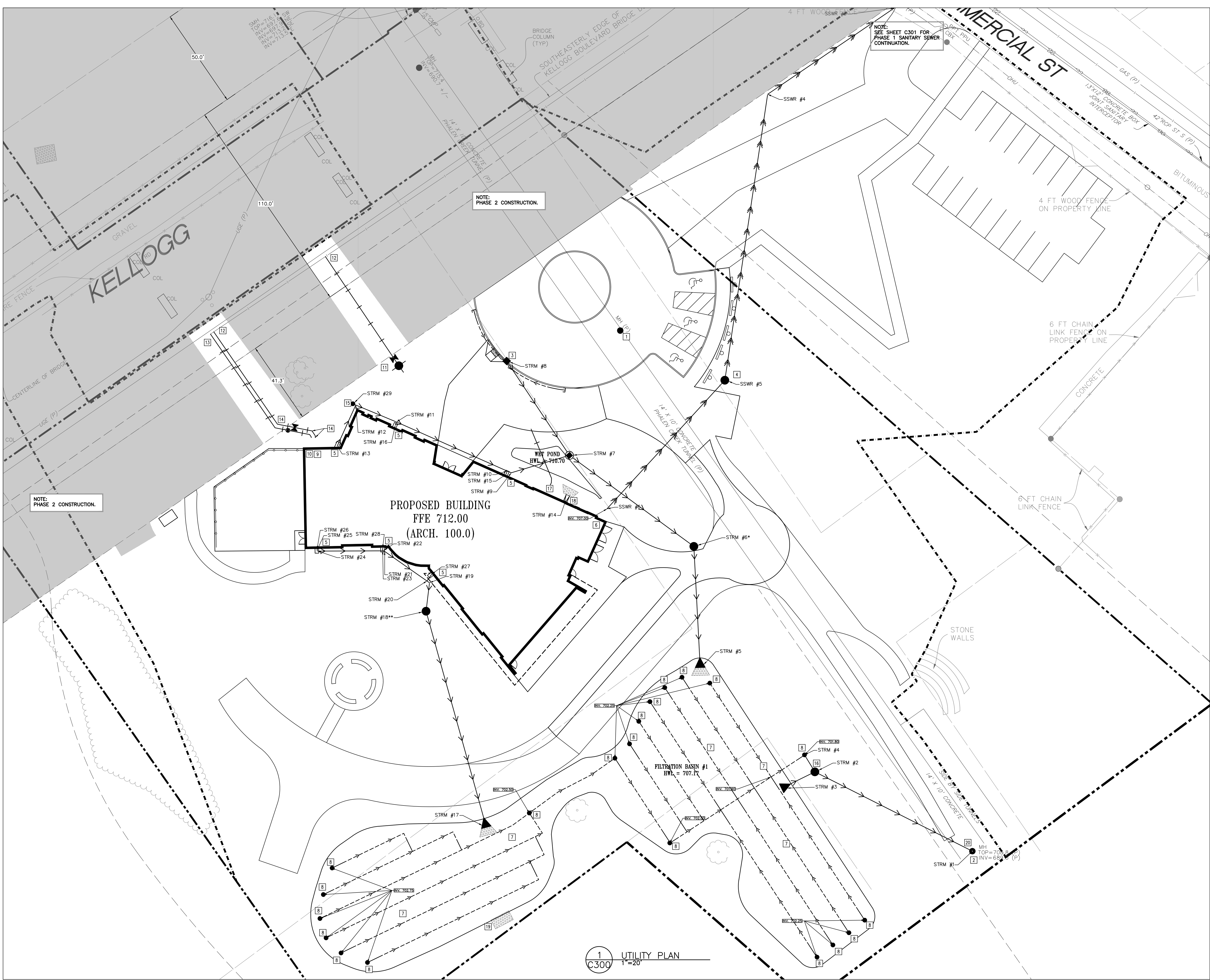
Grading, Drainage, and Erosion Control Plan

Sheet Number

C201

Current Revision

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PROPOSED PLAN SYMBOLS

CONSTRUCTION LIMITS
PROPERTY LINE
SAWCUT LINE (APPROX.)
SANITARY SEWER
WATER PIPE
DRAIN TILE
STORM SEWER
FIRE HYDRANT
GATE VALVE
CURB STOP
CLEANOUT
CATCH BASIN
MANHOLE
FLARED END SECTION WITH RIPRAP
FLARED END SECTION
SEWER INVERT ELEVATION
RIPRAP
PHASE 2 CONSTRUCTION

ABBREVIATIONS

BLDG	Building
BM	Bench Mark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
HDPE	High Density Polyethylene
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
RD	Roof Drain

NOTE: REFER TO ST. PAUL NOTES AND UTILITY NOTES ON SHEET C301.

NOTE: AN AS-BUILT SURVEY OF ALL STORMWATER BMPs (FILTRATION BASIN, OUTLET STRUCTURES, DRANTILE, CLEAN OUTS, SUMP CATCH BASINS, ETC...) SHALL BE SUBMITTED TO CAPITOL REGION WATERSHED DISTRICT PRIOR TO PROJECT CLOSEOUT. THE AS-BUILT SURVEY SHALL INCLUDE THE FILTRATION BASIN TRAIN TILE INVERTS AND LAYOUT FOR VERIFICATION THE THE SYSTEM WAS INSTALLED PROPERLY AND THAT 23-INCHES OF SAND/FILTRATION MIX OVER THE TOP OF THE DRAIN TILE HAS BEEN PROVIDED.

UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:

- FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTORS ARE TO COORDINATE ALL WORK WITHIN RIGHT-OF-WAY AND OBTAIN ALL APPLICABLE PERMITS.

- KEYED NOTES
- KEYED NOTES ARE DEVOTED BY [NO] ON PLAN.
- ADJUST EXISTING MANHOLE TO MATCH PROPOSED GRADE. REFER TO GRADING PLAN AND DETAIL 1/C503.
 - CORE DRILL EXISTING MANHOLE FOR PROPOSED PIPE CONNECTION. GROUT SEAL AROUND OPENING. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS. REFER TO STORM SEWER TABLE.
 - INSTALL DRAIN TILE AT LOW POINT CATCH BASINS. REFER TO DETAIL 1/C501.
 - INSTALL SANITARY SEWER LIFT STATION / PUMP MANHOLE. REFER TO DETAIL 2/C501.
 - LOCATION OF PROPOSED ROOF DRAIN DOWNSPOUT CONNECTION. SEE STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - LOCATION OF PROPOSED SANITARY SEWER SERVICE. REFER TO SANITARY SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - INSTALL FILTRATION BASIN AND DRAIN TILE PER DETAIL 4/C501.
 - INSTALL 4" DRAIN TILE CLEANOUT. REFER TO DETAIL 5/C501.
 - STUB 6-INCH FIRE PROTECTION LINE TO WITHIN 5- FEET OF PROPOSED BUILDING. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
 - STUB 2-INCH DOMESTIC WATER SERVICE TO WITHIN 5- FEET OF PROPOSED BUILDING. REFER TO DETAIL 10/C501. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
 - INSTALL FIRE HYDRANT AND GATE VALVE. REFER TO DETAIL 9/C501. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
 - INSTALL 6-INCH WET TAP WITH GATE VALVE. REFER TO DETAIL 8/C501. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS. GATE VALVE SHALL BE INSTALLED WHERE SHOWN ON PLANS OUTSIDE OF BRIDGE CONSTRUCTION EASEMENT.
 - INSTALL 2-INCH COPPER WATER SERVICE WITH CORPORATION STOP AND BOX. CONTRACTOR TO TAP 8-INCH WATER MAIN FOR 2-INCH SERVICE. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS. CORPORATION STOP SHALL BE INSTALLED WHERE SHOWN ON PLANS OUTSIDE OF BRIDGE CONSTRUCTION EASEMENT.
 - INSTALL 6-INCH 45-DEGREE BEND. REFER TO DETAIL 10/C501. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.
 - INSTALL 10" STORM SEWER CLEANOUT. REFER TO DETAIL 5/C501.
 - INSTALL POND OUTLET CONTROL STRUCTURE WITH WEIR AND ORIFICE. REFER TO DETAIL 9/C502.
 - INSTALL SEASONAL 1" COPPER WATER SERVICE FROM BUILDING TO PROPOSED WATER FOUNTAIN. COORDINATE LOCATION, SIZE, AND INVERTS WITH MECHANICAL AND LANDSCAPE PLANS.
 - INSTALL PRECAST CONCRETE SPLASH BLOCK FOR ROOF DOWNSPOUT. REFER TO DETAIL 11/C502. CONTRACTOR SHALL INSTALL RIPRAP AT THE END OF THE SPLASH BLOCK PER DETAIL 4/C502 THAT MEETS THE REQUIREMENTS OF A 12-INCH PIPE.
 - INSTALL RIPRAP AT THE FILTRATION BASIN EMERGENCY OVERFLOW PER DETAIL 4/C502 THAT MEETS THE REQUIREMENTS OF A 18-INCH PIPE.
 - THE CONTRACTOR SHALL FIELD LOCATE THE TOP OF TUNNEL AT THE MANHOLE CONNECTION AND NOTIFY THE ENGINEER OF CONFLICTS WITH THE PROPOSED PIPE AND INVERT.

I here by certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Minnesota

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License No.: 46674

90% CONSTRUCTION SET

Revisions		
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Project Information		
Phase:	DD	Date: 05/18/2021
Project No.:	20232	PIC / AIC:

Project Name
Wakan Tipi Center

Sheet Title
Utility Plan

Sheet Number
C300

Current Revision

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90% CONSTRUCTION SET

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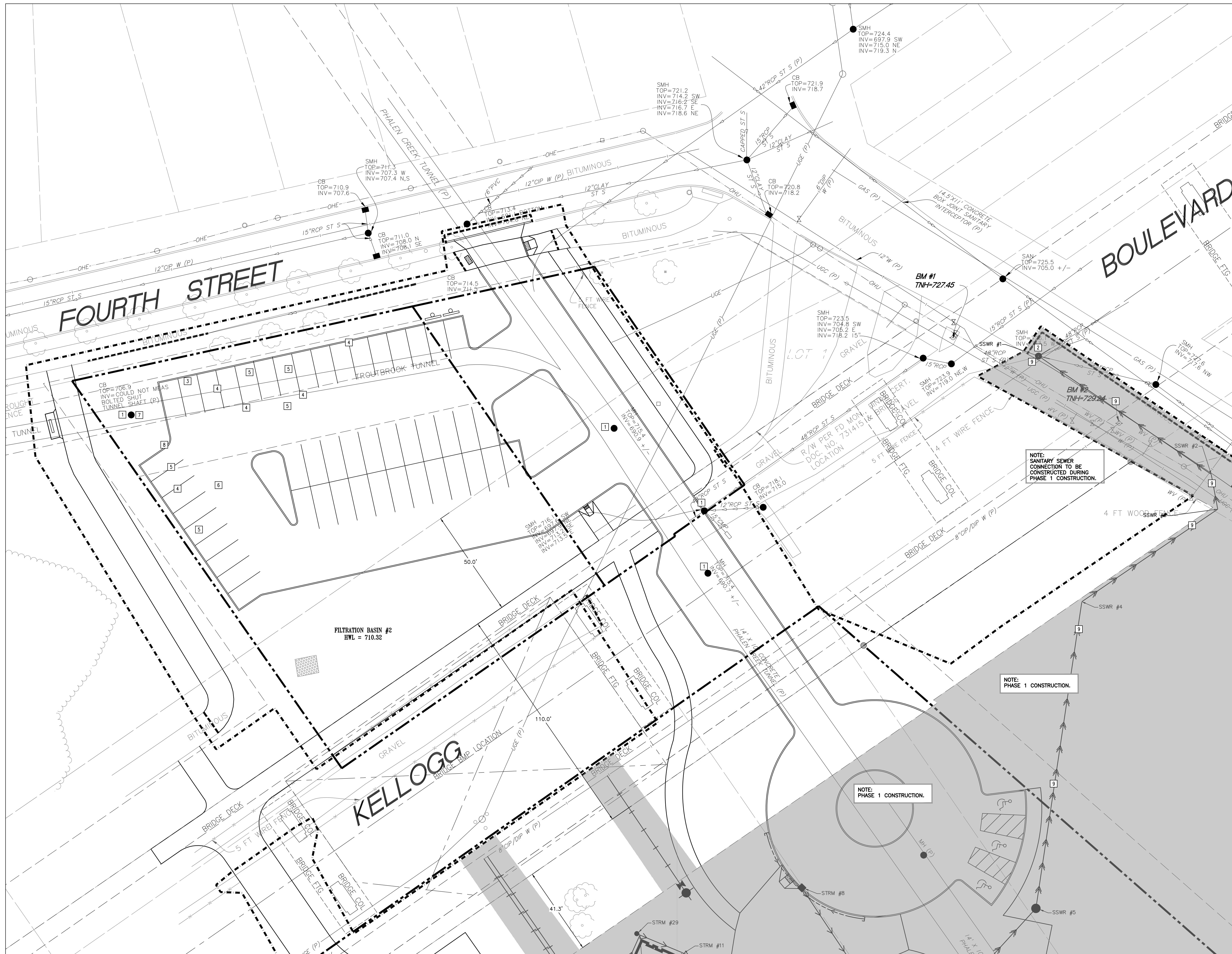
Project Name

Wakan Tipi Center

Sheet Title
Utility Plan

Sheet Number _____ Current Revision _____

C301



1
C301

UTILITY PLAN
1"=20'

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE

SANITARY SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	NEENAH CASTING TYPE	RIM ELEVATION	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE
SSWR #1	EXISTING SSWR MH	NA	726.10	NE = 713.50 E = 713.50 SE = 714.07	----- ----- 97' L.F. OF 4" PVC @ -1.00%, SSWR #2
SSWR #2	4" 45° BEND	NA		NW = 713.10 S = 713.10	16' L.F. OF 4" PVC @ -1.50%, SSWR #3
SSWR #3	4" 45° BEND	NA		N = 712.85 SW = 712.85	76' L.F. OF 4" PVC @ -1.50%, SSWR #4
SSWR #4	4" 45° BEND	NA		NE = 711.71 S = 711.71	144' L.F. OF 4" PVC @ -1.50%, SSWR #5

UTILITY NOTES:

1. COORDINATE SEWER CONNECTION LOCATIONS AT THE BUILDING WITH THE MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THIS ADDITIONAL WORK.
2. COORDINATE UTILITY INSTALLATION WITH STRUCTURE PRIOR TO START OF CONSTRUCTION. UTILITIES SHALL NOT BE INSTALLED WITHIN THE ZONE OF INFLUENCE OF ANY STRUCTURAL ELEMENTS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR UNCOORDINATED WORK.
3. ALL SEWER SERVICE CONNECTIONS WITH LESS THAN 5 FEET OF COVER OVER THE TOP OF PIPE SHALL BE INSULATED. INSULATION SHALL BE COORDINATED WITH THE PROTECTION FROM THE PROJECTION FROM THE EXISTING GRADE. THE SEWER SERVICE ATTAINS 5 FEET OF COVER. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ARCHITECT OR ENGINEER PRIOR TO INSTALLATION OF INSULATION.
4. PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED TO BE REMOVED.
5. ALL SEWER AND WATER CROSSINGS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 1.5 FEET AND HORIZONTAL SEPARATION OF 10 FEET. FOLLOW LOCAL DEPARTMENT AND CITY OF ST. PAUL AND HENNEPIN COUNTY STANDARDS.
6. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE, CLASS 12, UNLESS NOTED OTHERWISE.
7. ALL WATER MAIN SHALL HAVE A MINIMUM DEPTH OF COVER OF 8 FEET OVER TOP OF WATER MAIN.
8. SANITARY SEWER PIPING SHALL BE SDR 26 PVC UNLESS NOTED OTHERWISE.
9. STORM SEWER PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP), UNLESS NOTED OTHERWISE. ALL 12-INCH THROUGH 18-INCH RCP STORM SEWER PIPE SHALL BE CLASS 5. RCP PIPE LARGER THAN 18-INCH SHALL BE CLASS 3 UNLESS NOTED OTHERWISE. ALL STORM SEWER PIPE SHALL BE EXTENDED TO THE STREET OR TO THE POINT OF DISCHARGE.
10. ALL FLARED END SECTIONS SHALL HAVE TRASH GRADS, ALL DOWNSTREAM FLARED END SECTIONS SHALL HAVE GEOTEXTILE FABRIC AND RIPRAP PER MNDOT STANDARDS, AS DETAILLED.
11. CONTRACTOR SHALL COORDINATE ALL WORK WITH GAS, ELECTRIC, TELEVISION AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
12. WHERE PROPOSED GRADE OVER EXISTING SMALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
13. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10-FEET OF THE BUILDING OR WATER SERVICE LINE SHALL BE TESTED IN ACCORDANCE WITH MN PLUMBING CODE. PIPING MATERIAL SHALL BE SCHEDULE 40 PVC.
14. ALL JOINTS ON CONNECTIONS TO EXISTING WATER MAINS MUST BE TIGHT. ALL WATER TIGHT IN ACCORDANCE TO MN PLUMBING CODE. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES, CATCH BASINS, AND OTHER STRUCTURES. INSULATED STORM GROUTING RINGS ARE AN ACCEPTABLE ALTERNATIVE. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND PATCHES.

PROPOSED PLAN SYMBOLS

CONSTRUCTION LIMITS

PROPERTY LINE

SAWCUT LINE (APPROX.)

SANITARY SEWER

WATER PIPE

DRAIN TILE

STORM SEWER

FIRE HYDRANT

GATE VALVE

CLEANOUT

CATCH BASIN

MANHOLE

SEWER INVERT ELEVATION

FLARED END SECTION

RIPPRAP

PHASE 1 CONSTRUCTION

20' 10' 0 20' 40'

SCALE 1" = 20'

ABBREVIATIONS

BLDS	Building
BM	Bench Mark
CB	Catch Basin
CONC	Concrete
DIP	Ductile Iron Pipe
ELEV	Elevation
EX	Existing
FPE	Finished Floor Elevation
HDPE	High Density Polyethylene
INV	Invert
MAX	Maximum
MH	Manhole
MIN	Minimum
PVC	Polyvinyl Chloride
RCR	Reinforced Concrete Pipe
RD	Road Drain

UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:

1. FIELD OF ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.

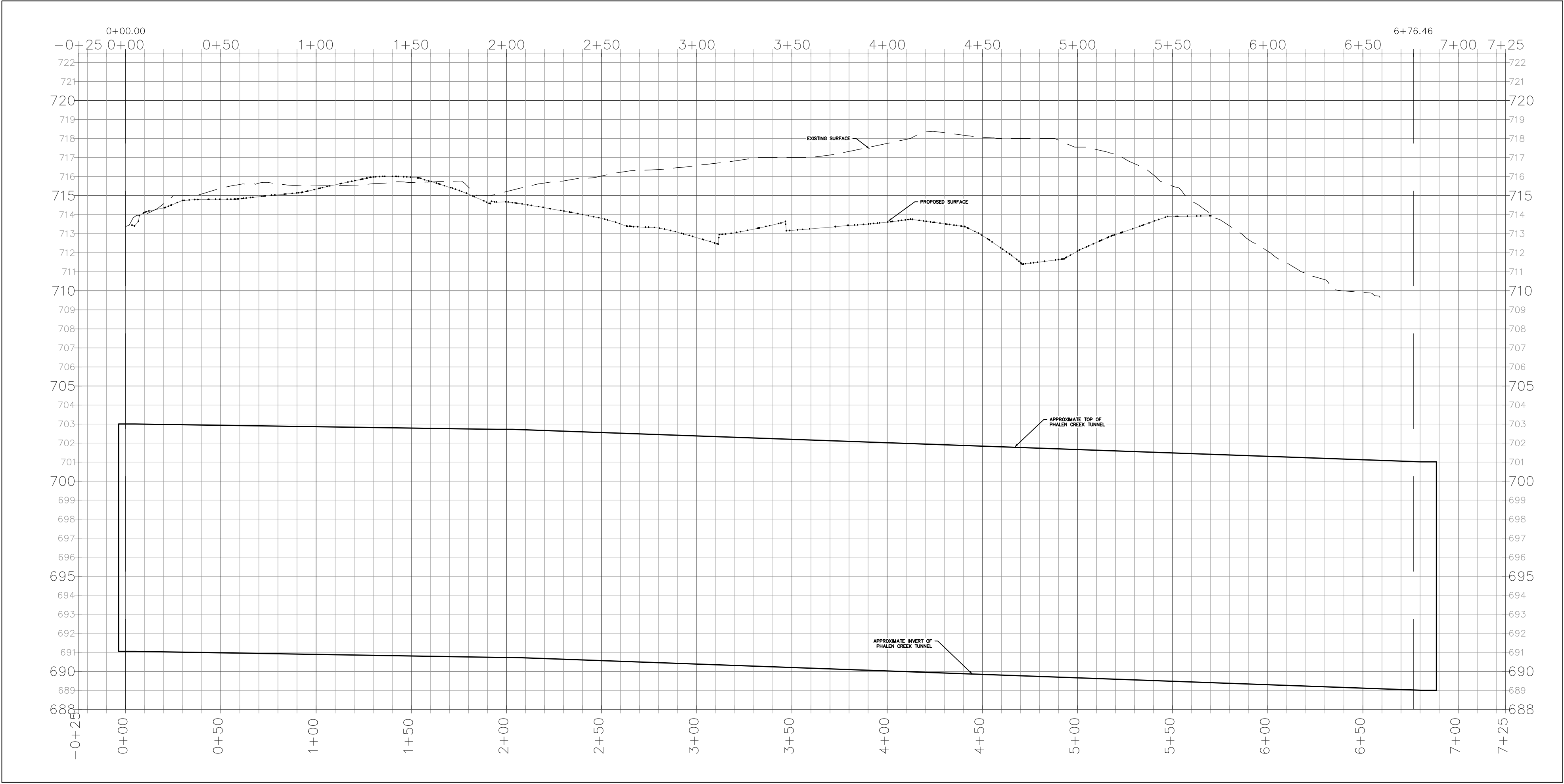
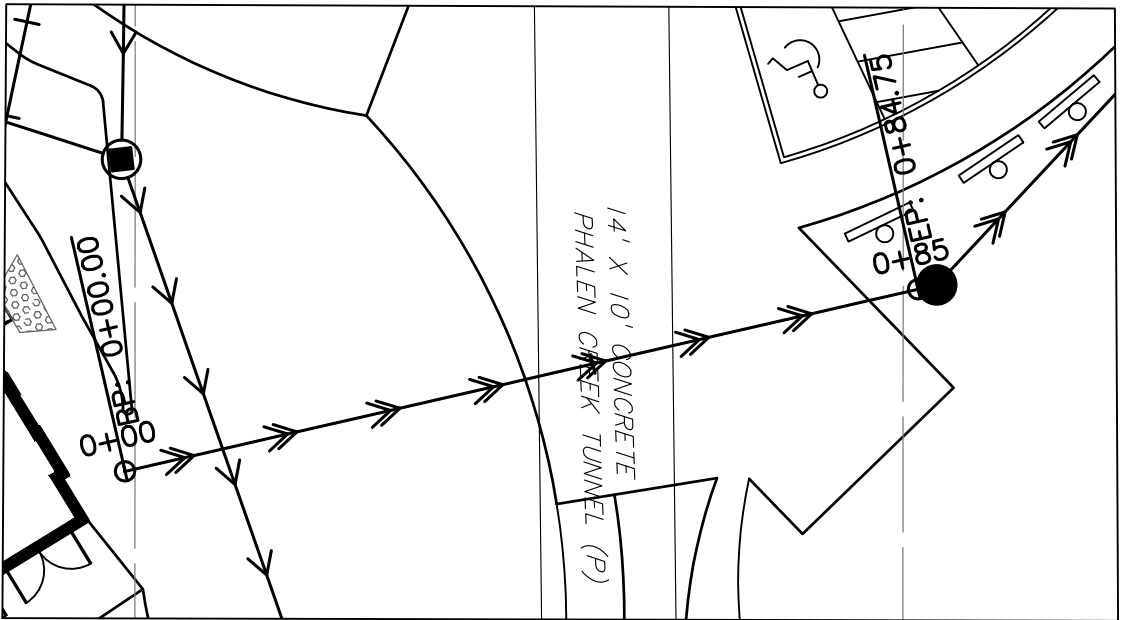
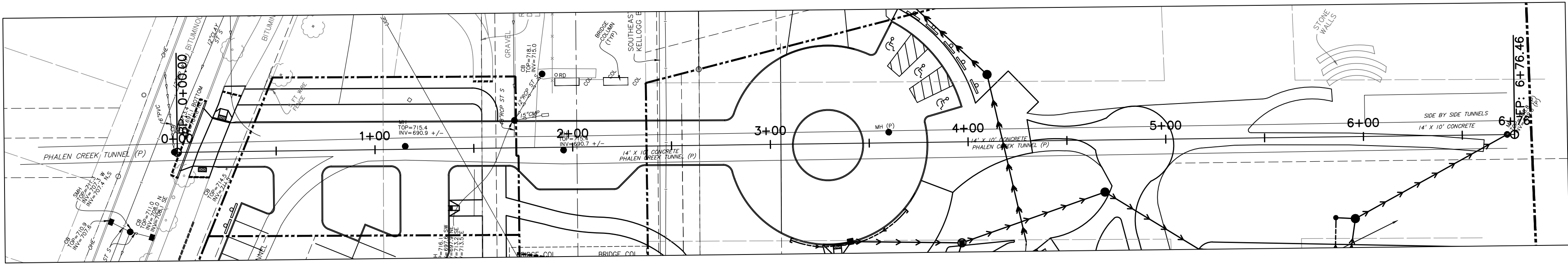
KEYED NOTES

KEYED NOTES ARE DENOTED BY NO ON PLAN.

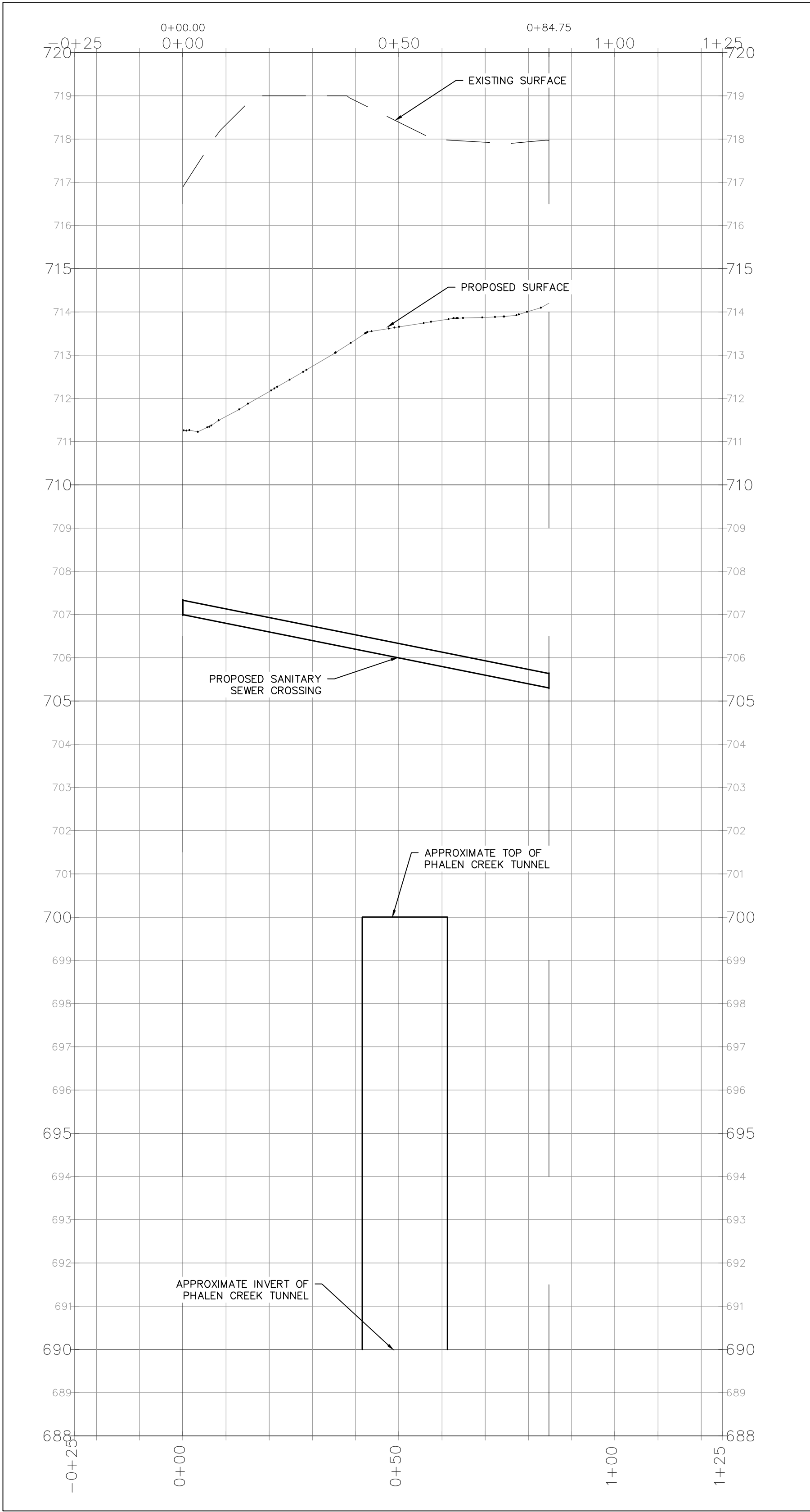
1. ADJUST EXISTING MANHOLE/CATCH BASIN TO MATCH PROPOSED GRADE. REFER TO GRADING PLAN AND DETAIL 1/C503.
2. CORE DRILL EXISTING MANHOLE FOR PROPOSED SANITARY PIPE CONNECTION. PROVIDE RUBBER BOOT SEAL ON SANITARY CONNECTION AND GROUT SEAL ON STORM. FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS. REFER TO STORM SEWER AND SANITARY SEWER TABLES.
3. INSTALL RIPRAP AT THE FILTRATION BASIN EMERGENCY OVERTOP PER DETAIL 4/C502 THAT MEETS THE REQUIREMENTS OF AN 18-INCH PIPE. RIPRAP SHALL EXTEND TO THE TOE OF THE SLOPE.
4. INSTALL FILTRATION BASIN AND DRAINPILE PER DETAIL 8/C502.
5. INSTALL 4" DRAINPILE CLEANOUT. REFER TO DETAIL 5/C501.
6. INSTALL CURB OPENING WITH RAIN GUARDIAN TURRET. REFER TO DETAIL 1/C502.
7. CORE DRILL EXISTING MANHOLE FOR PROPOSED PIPE CONNECTION, GROUT SEAL AROUND OPENING, FOLLOW ALL CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS. REFER TO STORM SEWER AND SANITARY SEWER TABLES.
8. INSTALL POND OUTLET CONTROL STRUCTURE WITH SKIMMER, WEIR, AND ORIFICE. REFER TO DETAIL 10/C502.
9. SANITARY SEWER PIPE AND MANHOLE CONNECTION TO BE CONSTRUCTED DURING PHASE 1 CONSTRUCTION.

ST. PAUL'S NOTES:

- [illegible]



1
C302 PHALEN CREEK – PLAN AND PROFILE
1"=40'



2
C302 PHALEN CREEK SANITARY SEWER CROSSING – PLAN AND PROFILE
1"=20'

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Minnesota

Name: Keith Matte
License No.: 46674

90% CONSTRUCTION SET

Revisions		
No.	Date	Description
02/04/2021	DD	Design Development
02/10/2021	DD	Watershed Review
04/16/2021	DD	Site Plan Review
04/29/2021	DD	Watershed Resubmittal
05/18/2021	DD	Watershed Resubmittal

Project Information			
Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name
Wakan Tipi Center

Sheet Title
PHALEN CREEK PLAN
AND PROFILE

Sheet Number
C302

Current Revision

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I hereby certify that this plan,
specification or report was prepared
by me or under my direct supervision
and that I am a duly registered
professional engineer under the laws
of the State of Minnesota

Name: Keith Matte
License No.: 46674

90% CONSTRUCTION SET

Revisions

No.	Date	Description
02/04/2021		Design Development
02/10/2021		Watershed Review
04/16/2021		Site Plan Review
04/29/2021		Watershed Resubmittal
05/18/2021		Watershed Resubmittal

Project Information

Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name

Wakan Tipi Center

Sheet Title

Paving and Geometric Plan

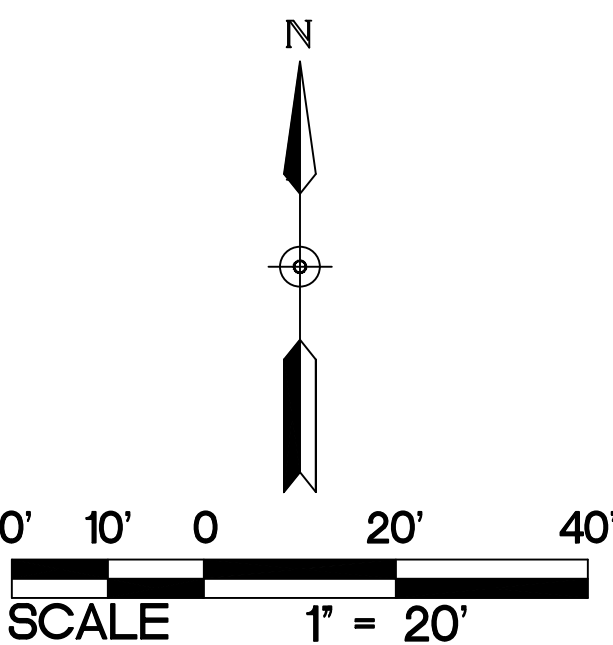
Sheet Number

C400

Current Revision

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PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	---
SAWCUT LINE (APPROX.)	---
HEAVY-DUTY BITUMINOUS PAVEMENT	[Pattern]
LIGHT-DUTY BITUMINOUS PAVEMENT	[Pattern]
BITUMINOUS TRAIL	[Pattern]
CONCRETE SIDEWALK	[Pattern]
CONCRETE PAVEMENT	[Pattern]
FLAT CURB AND GUTTER	[Pattern]
GRAVEL ROADWAY/PAVEMENT	[Pattern]
GRAVEL PATH	[Pattern]
DECOMPOSED GRANITE (SEE LANDSCAPE)	[Pattern]
PEDESTRIAN CURB RAMP	[Symbol]
ACCESSIBLE PARKING SYMBOL	[Symbol]
SIGN	[Symbol]
PARKING STALL COUNT	[Symbol]
FENCE	---
PHASE 2 CONSTRUCTION	[Pattern]



ABBREVIATIONS	
BLDG	Building
BM	Bench Mark
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP.	Typical
MN/MUTCD	Minnesota Manual on Uniform Traffic Control Devices

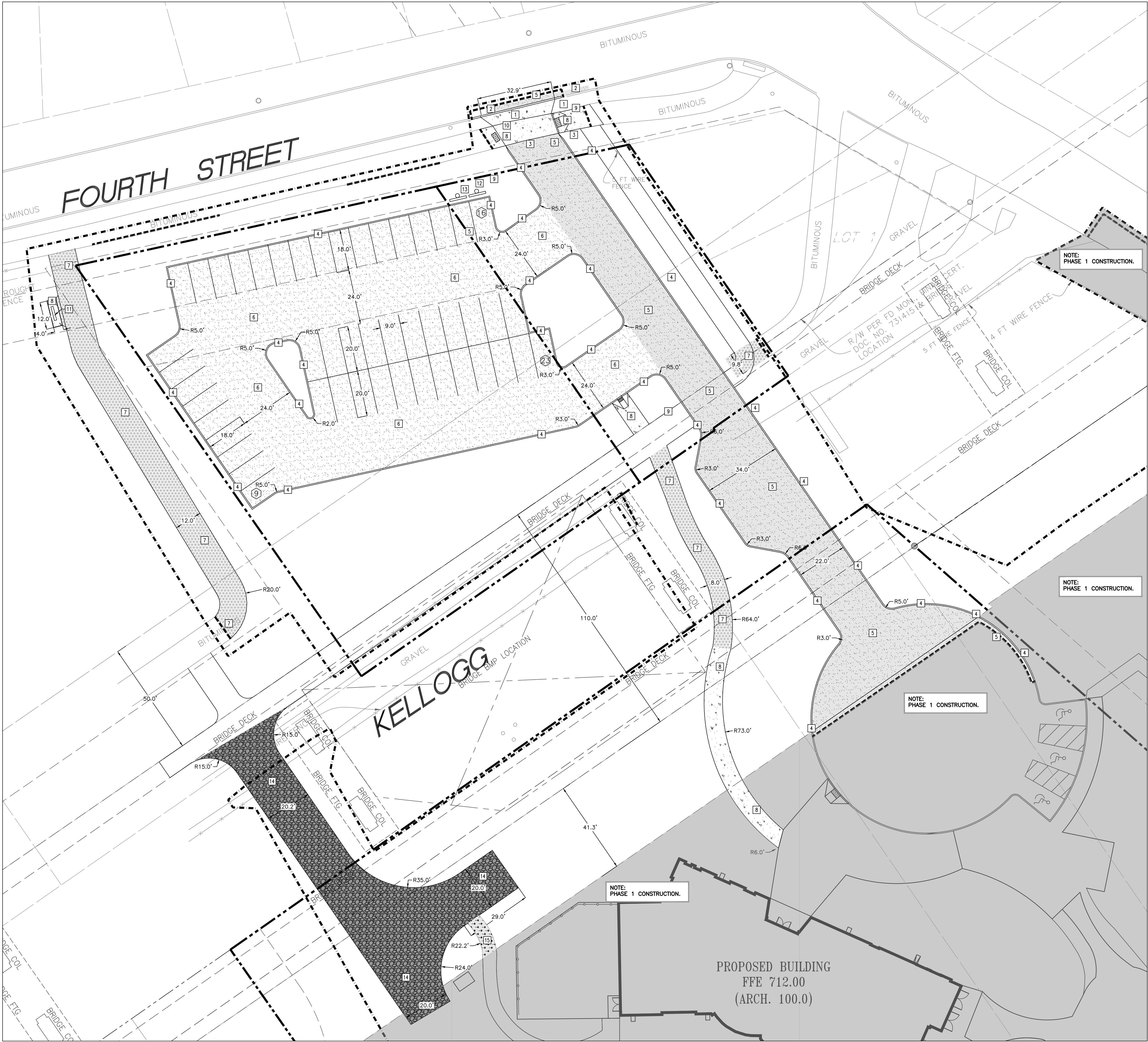
NOTE:
REFER TO ST. PAUL NOTES, PAVING
NOTES, AND GENERAL NOTES ON SHEET
C401.

PHASE 1 NEW PARKING STALLS: 21
PHASE 1 ADA STALLS PROVIDED: 3

KEYED NOTES

KEYED NOTES ARE DENOTED BY [Symbol] ON PLAN.

1. INSTALL NOSE-DOWN CURB SECTION. REFER TO DETAIL 7/C500.
2. INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 8/C500.
3. INSTALL FLAT CURB. REFER TO DETAIL 7/C501.
4. INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 10/C500.
5. INSTALL LIGHT-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 11/C500.
6. CONCRETE TRANSFORMER PAD. COORDINATE WITH ELECTRICAL.
7. INSTALL CONCRETE WALK. REFER TO DETAIL 9/C500.
8. INSTALL PEDESTRIAN CURB RAMP. REFER TO DETAIL 6/C501. REFER TO MN/DOT STANDARD PLAN 5-297.250 AND MN/DOT STANDARD PLATE 7038.
9. INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. INTENT IS TO MATCH EXISTING PAVEMENT SECTION.
10. INSTALL ACCESSIBLE PARKING SIGN. REFER TO DETAIL 11/C501.
11. INSTALL NO PARKING SIGN. REFER TO DETAIL 11/C501.
12. INSTALL GRAVEL PATH. REFER TO DETAIL 14/C500.
13. INSTALL CONCRETE PAVEMENT. REFER TO DETAIL 13/C500.
14. INSTALL B612 CONCRETE CURB AND GUTTER FOR PHASE 1 CONSTRUCTION. REFER TO DETAIL 8/C500.
15. FENCE. REFER TO LANDSCAPE PLANS.
16. FIRE PIT/SWEAT LODGE. REFER TO LANDSCAPE PLANS.
17. INSTALL GRAVEL ROADWAY/PARKING LOT. REFER TO DETAIL 15/C500.
18. END HEAVY DUTY PAVEMENT AT 60' CONSTRUCTION EASEMENT FOR PHASE 1 CONSTRUCTION.
19. INSTALL DECOMPOSED GRANITE PATH/ROADWAY. REFER TO LANDSCAPE PLANS.
20. INSTALL BITUMINOUS TRAIL. REFER TO DETAIL 12/C500.

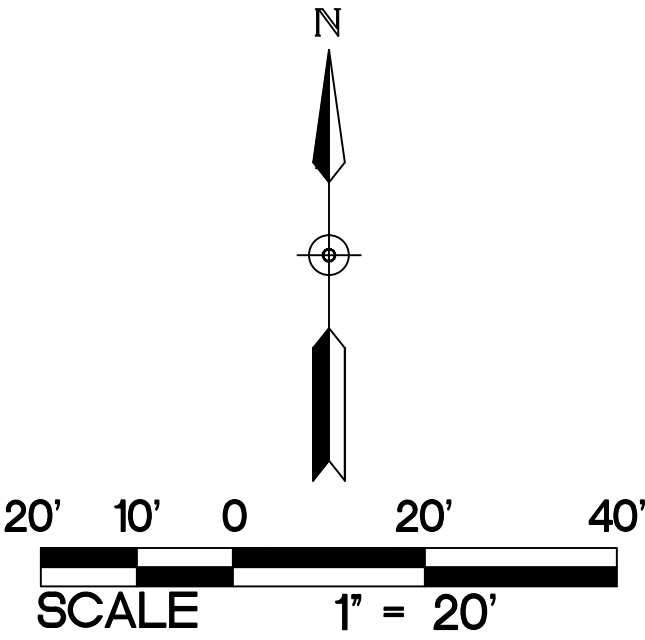


PROPOSED PLAN SYMBOLS	
CONSTRUCTION LIMITS	---
PROPERTY LINE	----
SAWCUT LINE (APPROX.)	- - - - -
HEAVY-DUTY BITUMINOUS PAVEMENT	[Pattern]
LIGHT-DUTY BITUMINOUS PAVEMENT	[Pattern]
CONCRETE PAVEMENT/SIDEWALK	[Pattern]
GRAVEL ROADWAY/PAVEMENT	[Pattern]
GRAVEL PATH	[Pattern]
BITUMINOUS TRAIL	[Pattern]
PEDESTRIAN CURB RAMP	[Symbol]
BIRKING STALL COUNT	[Symbol]
PHASE 1 CONSTRUCTION	[Shaded Area]

ABBREVIATIONS	
BLDG	Building
BM	Bench Mark
CONC	Concrete
ELEV	Elevation
EX	Existing
FFE	Finished Floor Elevation
MAX	Maximum
MIN	Minimum
R	Radius
TYP.	Typical
MN MUTCD	Minnesota Manual on Uniform Traffic Control Devices

PHASE 2 NEW PARKING STALLS: 55

PHASE 2 ADA STALLS PROVIDED: 4



- KEYED NOTES
- KEYED NOTES ARE DENOTED BY [Symbol] ON PLAN.
- [1] INSTALL CONCRETE DRIVE ENTRANCE. REFER TO DETAIL 6/C500.
 - [2] INSTALL B618 CONCRETE CURB AND GUTTER IN PUBLIC RIGHT OF WAY. REFER TO DETAIL 8/C500.
 - [3] INSTALL NOSE-DOWN CURB SECTION. REFER TO DETAIL 7/C500.
 - [4] INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 8/C500.
 - [5] INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 10/C500.
 - [6] INSTALL LIGHT-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 11/C500.
 - [7] INSTALL BITUMINOUS TRAIL. REFER TO DETAIL 12/C500.
 - [8] INSTALL CONCRETE WALK. REFER TO DETAIL 9/C500.
 - [9] INSTALL PEDESTRIAN CURB RAMP. REFER TO DETAIL 6/C501. REFER TO MN/DOT STANDARD PLAN 5-297.250 AND MN/DOT STANDARD PLATE 703B.
 - [10] INSTALL DETECTABLE WARNING SURFACE. REFER TO DETAIL 6/C501.
 - [11] INSTALL SALVAGED BENCH.
 - [12] INSTALL SALVAGED ELECTRIC VEHICLE CHARGING STATION.
 - [13] INSTALL ELECTRIC VEHICLE CHARGING STATION SIGN. REFER TO DETAIL 11/C501.
 - [14] INSTALL GRAVEL ROADWAY/PARKING LOT. REFER TO DETAIL 15/C500.
 - [15] INSTALL GRAVEL PATH. REFER TO DETAIL 14/C500.
 - [16] INSTALL CURB OPENING FOR RAIN GUARDIAN TURRET.

- PAVING NOTES:
- 1. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF ASPHALT UNLESS NOTED OTHERWISE.
 - 2. ALL CURB AND GUTTER IS TO BE B612 CONCRETE CURB AND GUTTER UNLESS NOTED OTHERWISE.
 - 3. NO SIDEWALK IS TO HAVE MORE THAN A 2% CROSS SLOPE OR MORE THAN A 5% LONGITUDINAL SLOPE.
 - 4. REFER TO ARCHITECTURAL PLANS FOR PROPOSED BUILDING LAYOUT.
 - 5. FOLLOW ALL CITY OF SAINT PAUL RULES, REGULATIONS AND SPECIFICATIONS WHEN WORKING IN PUBLIC RIGHT OF WAY.
 - 6. ALL PARKING STALLS ARE TO BE 9 FEET WIDE BY 18 FEET LONG, UNLESS NOTED OTHERWISE.
 - 7. ACCESSIBLE AISLES SHALL BE STRIPED PER MN CODE (SECTION 502). WHERE "NO PARKING" SIGNAGE WOULD OBSTRUCT A CURB RAMP OR ACCESSIBLE ROUTE, "NO PARKING" SHALL BE PRINTED ON THE SURFACE OF THE ACCESS AISLE.
 - 8. THE CONTRACTOR IS TO CONTACT THE CITY OF SAINT PAUL FIRE MARSHALL FOR THE EXACT PLACEMENT OF FIRE LANES, YELLOW-PAINTED CURBING AND NO PARKING AREAS FOR FIRE PROTECTION PURPOSES.
 - 9. REFER TO STRUCTURAL PLANS FOR STOOD DETAILS. ALL WALKS ARE TO BE CENTERED ON THE DOORS.
 - 10. INSTALL APPROPRIATE EXPANSION MATERIAL WHERE CONCRETE IS ADJACENT TO BUILDING FACE.
 - 11. ALL EXPANSION AND ISOLATION JOINTS SHALL BE SEALED PER SPECIFICATIONS.
 - 12. MATCH NEW PAVEMENT, CURB AND GUTTER, AND SIDEWALK INTO EXISTING PAVEMENT. NO ABRUPT GRADE TRANSITIONS OR PONDING OF WATER.
 - 13. SAWCUT EXISTING PAVEMENT, SIDEWALK, AND CURB AND GUTTER TO NEAREST JOINT. COORDINATE REMOVAL LIMITS WITH SITE DEMOLITION CONTRACTOR AND CONSTRUCTION MANAGER.
 - 14. INSTALL DRIVE ENTRANCE PER CITY OF SAINT PAUL STANDARDS AND SPECIFICATIONS. FOLLOW ALL CITY OF SAINT PAUL REQUIREMENTS FOR TRAFFIC CONTROL.
 - 15. REFER TO SPECIFICATIONS FOR GRADE VERIFICATION SURVEY REQUIREMENTS PRIOR TO PLACEMENT OF SUB-BASE MATERIAL, BASE MATERIAL, AND PAVEMENTS/SIDEWALKS.
- ST. PAUL'S NOTES:
- 1. INSPECTION CONTACT: THE DEVELOPER SHALL CONTACT THE RIGHT OF WAY INSPECTOR CLINT MROZINSKI AT (651) 485-0418. (ONE WEEK PRIOR TO BEGINNING WORK) TO DISCUSS TRAFFIC CONTROL, PEDESTRIAN SAFETY AND COORDINATION OF ALL WORK IN THE PUBLIC RIGHT OF WAY. NOTE: IF A ONE WEEK NOTICE IS NOT PROVIDED TO THE CITY, ANY RESULTING DELAYS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - 2. SAFE WORK SITE REQUIREMENTS: THE CONTRACTOR SHALL PROVIDE A CONTINUOUS, ACCESSIBLE AND SAFE PEDESTRIAN WALKWAY THAT MEETS ADA AND MN MUTCD STANDARDS IF WORKING IN A SIDEWALK AREA, AND TRAFFIC CONTROL PER MN MUTCD REQUIREMENTS FOR WORK IN THE PUBLIC RIGHT OF WAY.
 - 3. NO PRIVATE FACILITIES IN THE RIGHT OF WAY: THE DEVELOPER IS STRICTLY PROHIBITED FROM INSTALLING PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTABLES AND/OR LIGHTING IN THE CITY'S RIGHT OF WAY. THIS INCLUDES STUBBING CONDUIT OR CABLE INTO THE PUBLIC RIGHT OF WAY TO ACCOMMODATE UTILITY FEEDS TO THE SITE. COORDINATE WITH EACH UTILITY PRIOR TO CONSTRUCTION TO DETERMINE FEED POINTS INTO THE PROPERTY. UTILITIES ARE RESPONSIBLE FOR SECURING EXCAVATION PERMITS TO RUN THEIR SERVICE INTO A SITE, AND (WHERE REQUIRED) SUBMITTING PLANS FOR REVIEW BY THE PUBLIC WORKS UTILITY REVIEW COMMITTEE.
 - 4. CITY OF ST. PAUL PERMIT REQUIREMENTS:
 - 4.1. ORDERING OBSTRUCTION AND EXCAVATION PERMITS: CONTACT PUBLIC WORKS RIGHT OF WAY SERVICE DESK AT (651) 266-6151. **IT IS STRONGLY RECOMMENDED THAT CONTRACTORS CALL FOR COST ESTIMATES PRIOR TO BIDDING TO OBTAIN ACCURATE COST ESTIMATES.**
 - 4.2. OBSTRUCTION PERMITS: THE CONTRACTOR MUST OBTAIN AN OBSTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEWALKS OR ALLEYS, OR IF DRIVING OVER CURBS.
 - 4.3. EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS CLOSE TO THE RIGHT OF WAY, AND EXCAVATING INTO THE RIGHT OF WAY IS NEEDED TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY INSPECTOR.
 - 4.4. FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER CITY OF ST. PAUL LEGISLATIVE CODES.
 - 4.5. REQUIREMENTS TO WORK IN THE PUBLIC RIGHT OF WAY:
 - ALL UTILITIES AND CONTRACTORS WORKING IN THE PUBLIC RIGHT OF WAY MUST BE REGISTERED, INSURED AND BONDED, AS RECOGNIZED BY THE PUBLIC WORKS SERVICE DESK. (651-266-6151).
 - 5. ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE BY A LICENSED AND BONDED CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION (651-266-6120). SIDEWALK GRADES MUST BE CARRIED ACROSS DRIVEWAYS.
 - 6. RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-292-6600. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.
 - 7. SIGNS REGULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY SHALL BE INSTALLED BY THE PROPERTY OWNER OR CONTRACTOR OUTSIDE OF THE PUBLIC RIGHT-OF-WAY. SIGNS APPROVED BY PUBLIC WORKS TRAFFIC ENGINEERING REGULATING PARKING AND/OR TRAFFIC IN THE PUBLIC RIGHT-OF-WAY FOR THIS DEVELOPMENT SHALL BE INSTALLED BY CITY FORCES AT THE EXPENSE OF THE DEVELOPMENT. CONTACT TRAFFIC ENGINEERING 651-266-6200 SIX WEEKS IN ADVANCE OF NEEDED SIGNS.
 - 8. ABANDONING EXISTING SEWER SERVICE OR MAKING NEW CONNECTIONS TO CITY SEWER MUST BE DONE TO CITY STANDARDS BY A LICENSED HOUSE DRAIN CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SEWER SECTION (651-266-6234).
 - 9. ALL WATER MAIN AND SERVICES TO BE INSTALLED ACCORDING TO "SPRWS STANDARDS FOR INSTALLATION OF WATER MAINS", AND "SPRWS WATER CODE".
 - 10. ALL EXISTING WATER SERVICES NOT BEING REUSED MUST BE CUT-OFF AND ABANDONED PER SPRWS WATER CODE.
 - 11. THE CONTRACTOR SHALL CONTACT JOHN MCNAMARA, GENERAL FOREMAN, LIGHTING - SIGNAL MAINTENANCE, (651-266-9780), IF REMOVAL OR RELOCATION OF EXISTING FACILITIES IS REQUIRED OR IN THE EVENT OF DAMAGE TO THE LIGHTING OR SIGNAL UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY (AND RELATED COSTS) FOR ANY DAMAGE OR RELOCATIONS.
 - 11.1. THE INSTALLATION OF PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTABLES AND/OR LIGHTING IS STRICTLY PROHIBITED IN THE CITY'S ROW (RIGHT OF WAY).
 - 12. CONTRACTOR IS TO CONTACT ZACH JORSENEN, CITY FORESTER (651-632-2437) PRIOR TO IMPACTING ANY BOULEVARD TREES.
 - 13. BUSINESS SIGNS WILL REQUIRE A SEPARATE REVIEW AND SIGN PERMIT FROM THE DEPARTMENT OF SAFETY AND INSPECTIONS. SITE PLAN APPROVAL DOES NOT CONSTITUTE APPROVAL OF BUSINESS SIGNS SHOWN ON THE SITE PLAN. CONTACT YAYA DIAITA OF OSI ZONING (651-266-9080) IF YOU HAVE ANY QUESTIONS ABOUT SIGNS.
 - 14. CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS. CALL SAM GIBSON OF PUBLIC WORKS SURVEYING (651-266-6075) IF YOU HAVE ANY QUESTIONS.
 - 15. AS PER THE CITY'S "STANDARD SPECIFICATION FOR STREET OPENINGS" POLICY, RESTORATION ON ROADWAY SURFACES LESS THAN 5 YEARS OLD WILL REQUIRE FULL WIDTH MILL AND OVERLAY OR ADDITIONAL DEGRADATION FEES. PAVEMENT RESTORATION SHALL BE COMPLETED BY THE ST. PAUL PUBLIC WORKS STREET MAINTENANCE DIVISION. ALL RELATED COSTS ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR. CONTACT KEVIN NELSON AT 651-266-9700 FOR ESTIMATE OF COSTS FOR PAVEMENT RESTORATION.
 - 16. PIPE MUST BE MECHANICAL JOINT UNDERNEATH THE BUILDING FOOTPRINT AND UP TO TEN FEET OUTSIDE OF THE BUILDING FOOTPRINT.
 - 17. WATER SERVICES TO BE INSTALLED ACCORDING TO SPRWS (STANDARDS FOR THE INSTALLATION OF WATER MAINS."
 - 18. A FOUR-SIDED TRENCH BOX IS REQUIRED ON ALL EXCAVATIONS DEEPER THAN 5 FEET WHERE UNDERGROUND WORK OR INSPECTION IS TO BE PERFORMED BY SPRWS. LADDERS ARE REQUIRED AND MUST EXTEND 3 FEET ABOVE THE SURFACE OF THE TRENCH. SIDEWALKS, PAVEMENTS, DUCTS AND APPURTENANT STRUCTURE SHALL NOT BE UNDERMINED UNLESS A SUPPORT SYSTEM OR ANOTHER METHOD OF PROTECTION IS PROVIDED IN EXCESS OF 20 FEET IN DEPTH MUST BE SIGNED OFF BY A REGISTERED PROFESSIONAL ENGINEER. EXCAVATED MATERIAL MUST BE KEPT A MINIMUM OF 2 FEET FROM THE EDGE OF THE TRENCH.
 - 19. MAINTAIN 8 FEET OF COVER OVER ALL WATER MAINS AND SERVICES.
 - 20. PIPE MATERIAL FOR 8" DUCTILE IRON PIPE MUST BE CLASS 52. PIPE MATERIAL FOR 6" AND 4" DUCTILE IRON PIPE MUST BE CLASS 53.
 - 21. MAINTAIN 3 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR A 12-INCH SEPARATION WITH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE d-10 FOR TYPICAL WATER MAIN OFFSETS.
 - 22. REFER TO SPRWS "STANDARDS FOR THE INSTALLATION OF WATER MAINS" STANDARD PLATE D-11 FOR RESTRAINED PIPE REQUIREMENT.
 - 23. ALL WATER SERVICE VALVE BOXES WITHIN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION.
 - 24. ALL PIPE WORK INSIDE OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF SAINT PAUL.

1 PAVING AND GEOMETRIC PLAN
C401 1"=20'

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cunningham.com

Consultant

BKBM

ENGINEERS

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Name: Keith Matte
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90% CONSTRUCTION SET

Revisions		
No.	Date	Description
	02/04/2021	Design Development
	02/10/2021	Watershed Review
	04/16/2021	Site Plan Review
	04/29/2021	Watershed Resubmittal
	05/18/2021	Watershed Resubmittal

Project Information		
Phase:	DD	Date: 05/18/2021
Project No.:	20232	PIC / AIC:

Project Name
Wakan Tipi Center

Sheet Title
Paving and Geometric Plan

Sheet Number
C401

Current Revision

C401

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Project Information

Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name

Wakan Tipi Center

Sheet Title

Civil Site Plan

Sheet Number

C402

Current Revision

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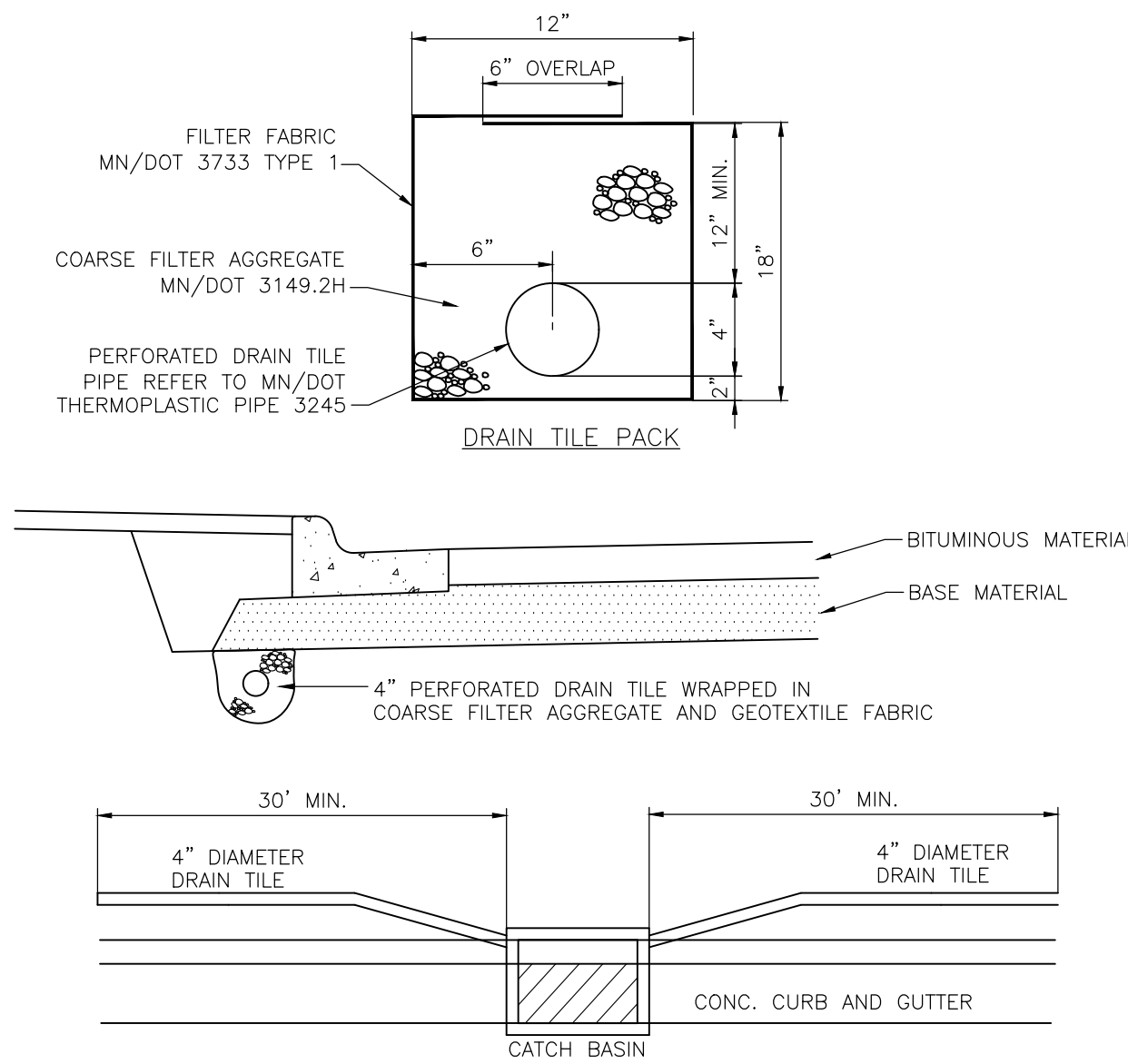
Project Name
Wakan Tipi Center

Sheet Title
CIVIL DETAILS

Sheet Number Current Revision

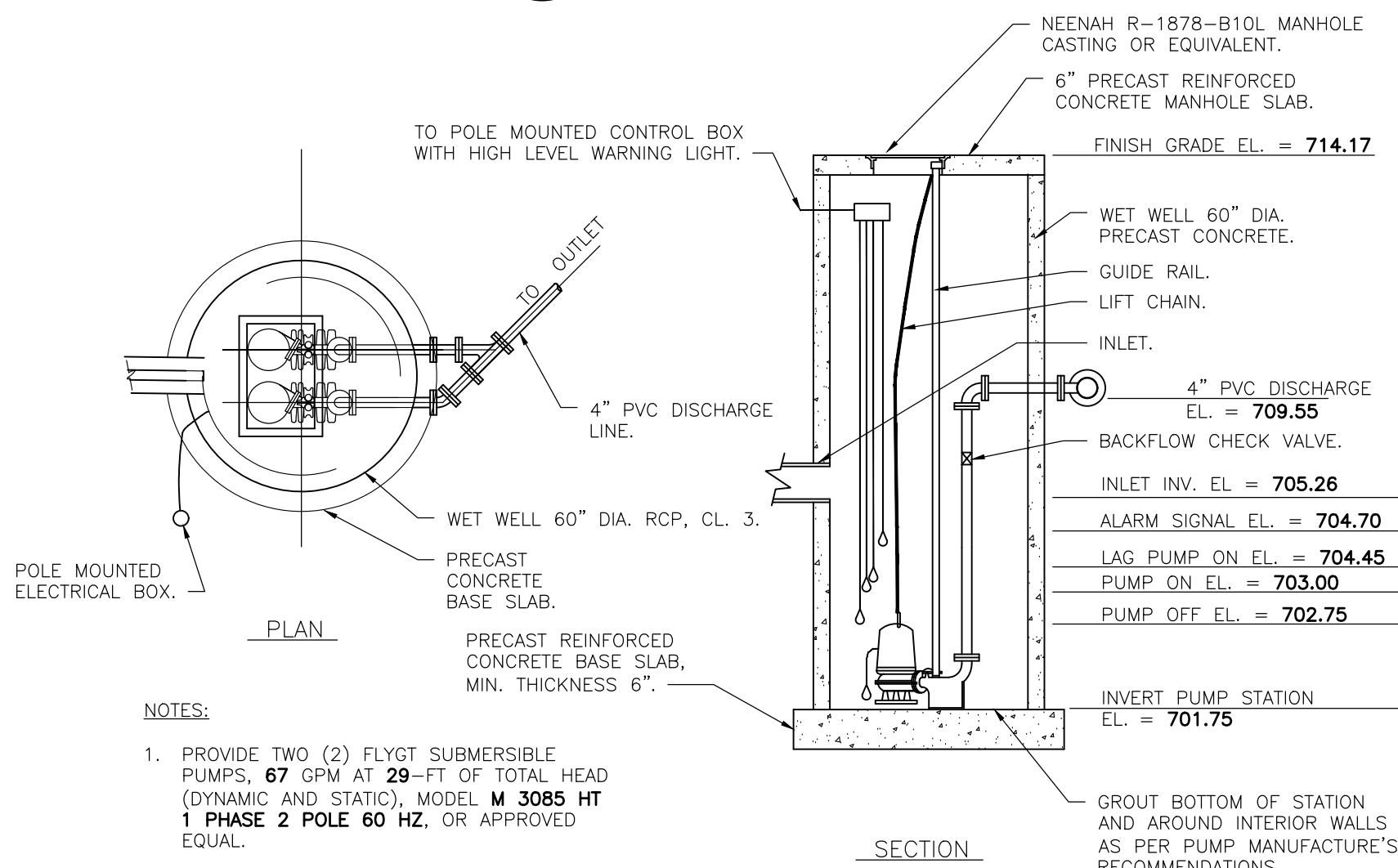
C501

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- 1) A MINIMUM OF 60 FEET OF DRAIN TILE SHALL BE PLACED AT ALL LOW POINT CATCH BASINS.
- 2) THE FIRST 18" AT CATCH BASIN SHALL BE SOLID WALL SCH 40 PVC. DRAIN TILE SHALL BE PLACED BEHIND THE PROPOSED CURB LINE.
- 3) MAINTAIN POSITIVE SLOPE AWAY FROM CATCH BASIN AT ALL TIMES. DRAIN TILE SLOPE SHALL MATCH PROPOSED AT GRADE SLOPE OR 0.5 PERCENT, WHICH EVER IS GREATER.
- 4) FOR CATCH BASINS NOT LOCATED IN A CURB LINE CONTRACTOR SHALL EXTEND DRAIN TILE IN 4 DIRECTIONS, IN THE SHAPE OF AN "X", FOR 15-FEET FROM EDGE OF CATCH BASIN STRUCTURE.
- 5) CONTRACTOR SHALL PROVIDE SOLID WALL PVC PIPE TO 10-FEET OF EITHER SIDE OF WATERMAIN CROSSINGS.
- 6) DRAIN TILE SHALL CONNECT TO CATCH BASIN AT 2.5- FEET BELOW THE PROPOSED RIM ELEVATION OR THE BOTTOM OF THE PAVEMENT BASE MATERIAL, WHICHEVER IS DEEPER.
- 7) PIPE CAPS SHALL BE INSTALLED ON THE END RUNS OF ALL DRAIN TILE PIPE.

1 DRAIN TILE AT LOW POINT CATCH BASIN C501 NOT TO SCALE

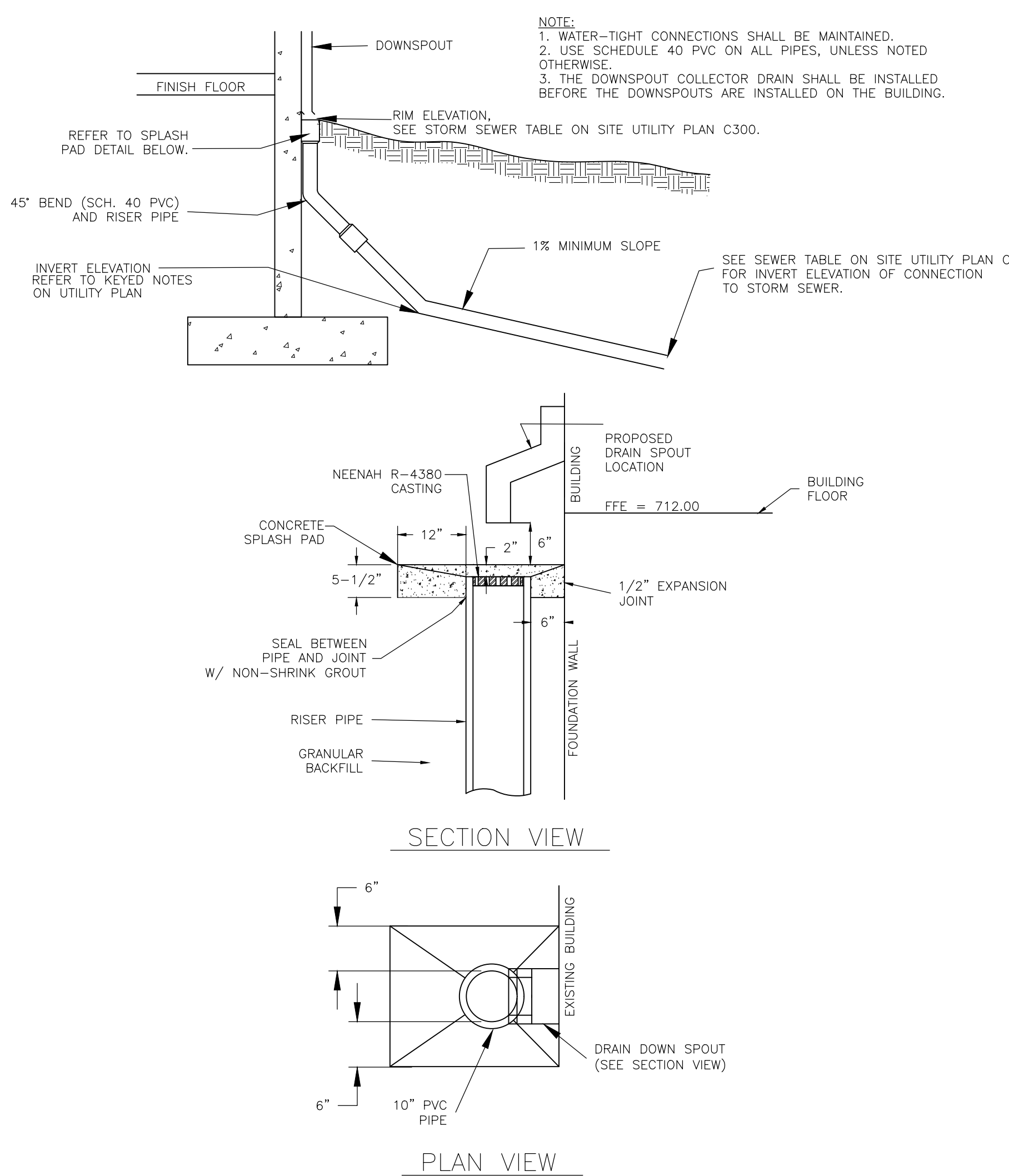


NOTES:

1. PROVIDE TWO (2) FLYGT SUBMERSIBLE PUMPS, 67 GPM AT 29'-FT OF TOTAL HEAD (DYNAMIC AND STATIC), MODEL M 3085 HT 1 PHASE 2 POLE 60 HZ, OR APPROVED EQUAL.
2. INSTALLATION TO INCLUDE POWER DROP SERVICE FROM NEAREST SOURCE. REFER TO ELECTRICAL DRAWINGS.
3. REINFORCED PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ASTM C478 STANDARDS.

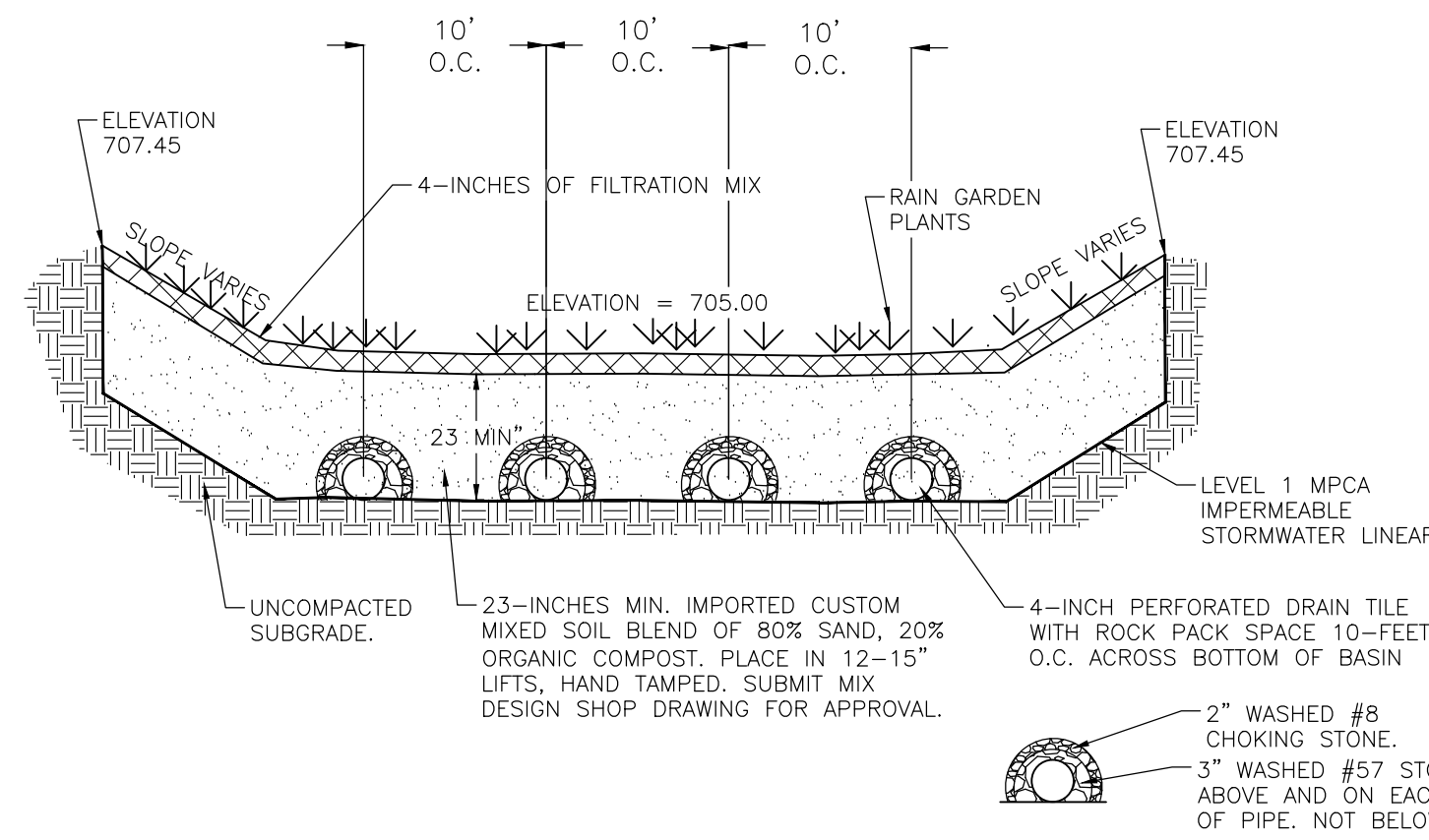
PUMPS TO BE FURNISHED WITH THE FOLLOWING: SINGLE PHASE EXPLOSION PROOF MOTOR, 40'-FEET OF SUBMERSIBLE POWER CABLE AND 20'-FEET OF STAINLESS STEEL LIFTING CHAIN.

2 SANITARY SEWER LIFT STATION C501 NOT TO SCALE



SECTION VIEW

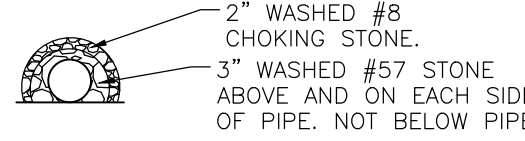
PLAN VIEW



NOTE:

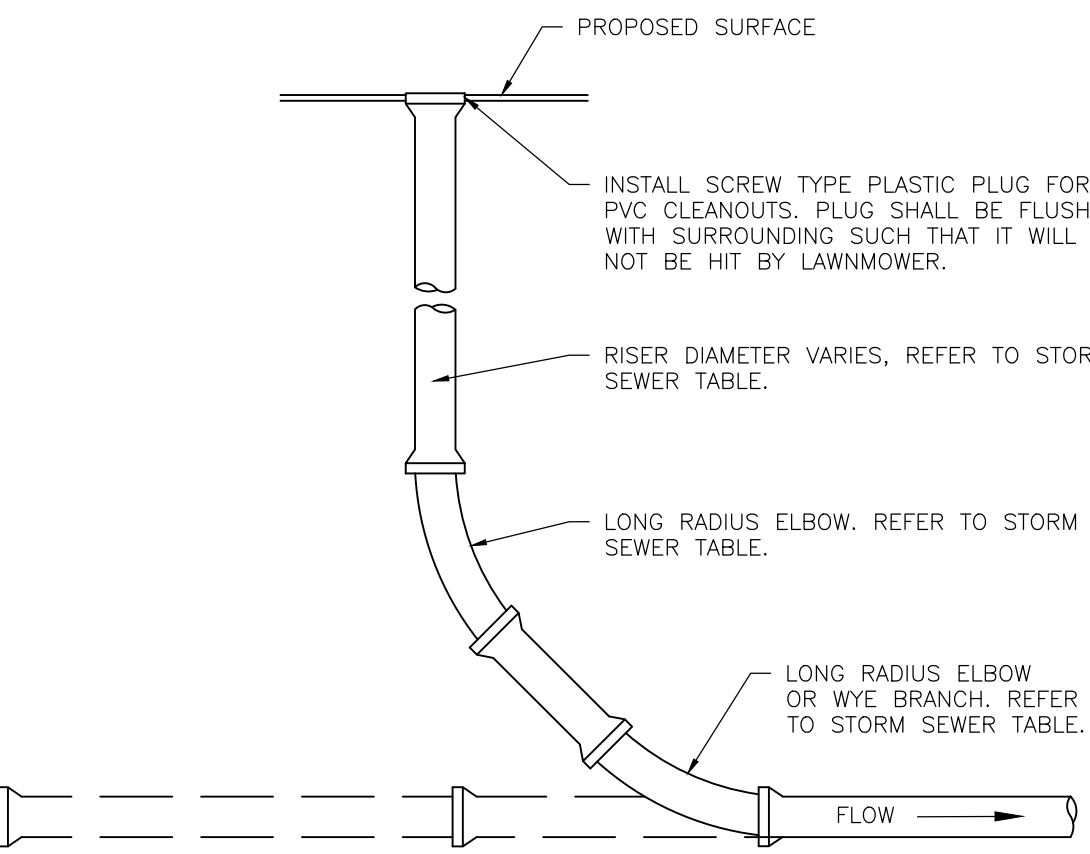
- REFER TO LANDSCAPE SITE PLAN FOR RAIN GARDEN PLANTINGS.
- ORIENTATION AND PERFORATIONS FOR UNDERDRAINS AND SPREADER PIPES SHALL FOLLOW ASTM F758/AASHTO M278 STANDARDS.
- PERFORATIONS SHALL BE 3/8 INCHES AND HOLE SPACING SHALL BE 3 INCHES (+/- 1/4 INCH)
- 4- INCH PIPE SHALL HAVE TWO ROWS OF HOLES AT 90° (+/- 3°)
- PERFORATIONS SHALL BE ORIENTATED DOWN.

FILTRATION MIX: TYPE C - MINNESOTA STORMWATER MANUAL 60-88% CONSTRUCTION SAND 8-12% FINES (SILT AND CLAY, MAXIMUM 5% CLAY CONTENT) 3-5% ORGANIC MATTER (ASTM D 2974 METHOD C)

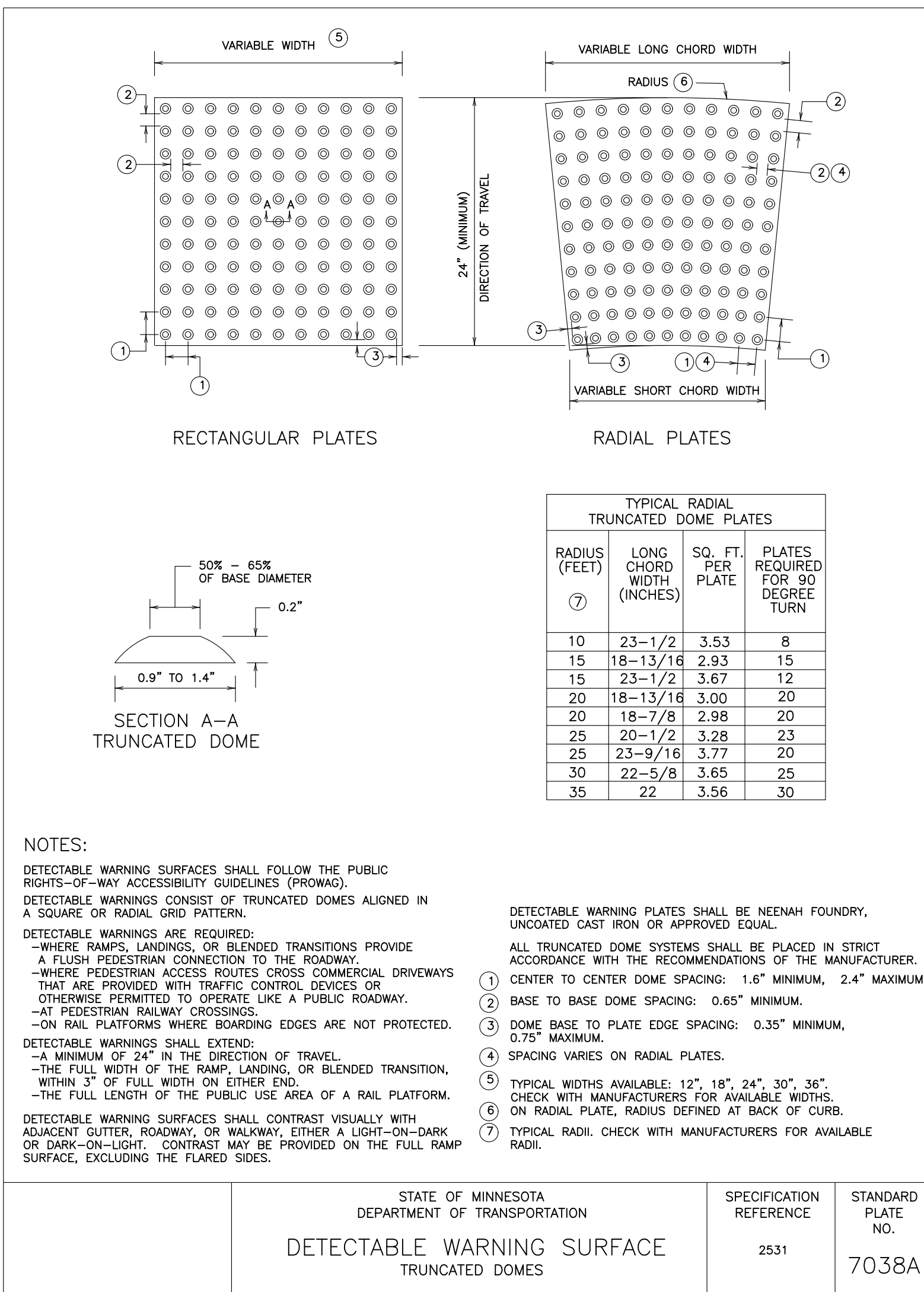


DRAIN TILE ROCK PACK DETAIL

4 FILTRATION BASIN #1 DETAIL C501 NOT TO SCALE



5 SEWER CLEANOUT IN PERVIOUS AREA C501 NOT TO SCALE



NOTES:

- DETECTABLE WARNING SURFACES SHALL FOLLOW THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
- DETECTABLE WARNINGS CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN.
- DETECTABLE WARNINGS ARE REQUIRED:
- WHERE RAMP, LANDINGS, OR BLENDED TRANSITIONS PROVIDE A FLUSH PEDESTRIAN CONNECTION TO THE ROADWAY.
 - WHERE PEDESTRIAN ACCESS ROUTES CROSS COMMERCIAL DRIVEWAYS THAT ARE PROVIDED WITH TRAFFIC CONTROL DEVICES OR OTHERWISE PERMITTED TO OPERATE LIKE A PUBLIC ROADWAY.
 - AT PEDESTRIAN RAILWAY CROSSINGS.
 - ON RAIL PLATFORMS WHERE BOARDING EDGES ARE NOT PROTECTED.
- DETECTABLE WARNINGS SHALL EXTEND:
- A MINIMUM OF 24" IN THE DIRECTION OF TRAVEL.
 - THE FULL WIDTH OF THE RAMP, LANDINGS, OR BLENDED TRANSITION, ADJACENT GUTTER, ROADWAY, OR WALKWAY, EITHER A LIGHT-ON/DARK OR DARK-ON/LIGHT. CONTRAST MAY BE PROVIDED ON THE FULL RAMP SURFACE, EXCLUDING THE FLARED SIDES.
 - THE FULL LENGTH OF THE PUBLIC USE AREA OF A RAIL PLATFORM.
- DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, ROADWAY, OR WALKWAY, EITHER A LIGHT-ON/DARK OR DARK-ON/LIGHT. CONTRAST MAY BE PROVIDED ON THE FULL RAMP SURFACE, EXCLUDING THE FLARED SIDES.

TYPICAL RADIAL TRUNCATED DOME PLATES			
RADIUS (FEET)	LONG CHORD WIDTH (INCHES)	SO. FT. PER PLATE	PLATES REQUIRED FOR 90 DEGREE TURN
10	23-1/2	3.53	8
15	18-13/16	2.93	15
15	23-1/2	3.67	12
20	18-13/16	3.00	20
20	18-7/8	2.58	20
25	20-1/2	3.28	23
25	23-9/16	3.77	20
30	22-5/8	3.65	25
35	22	3.58	30

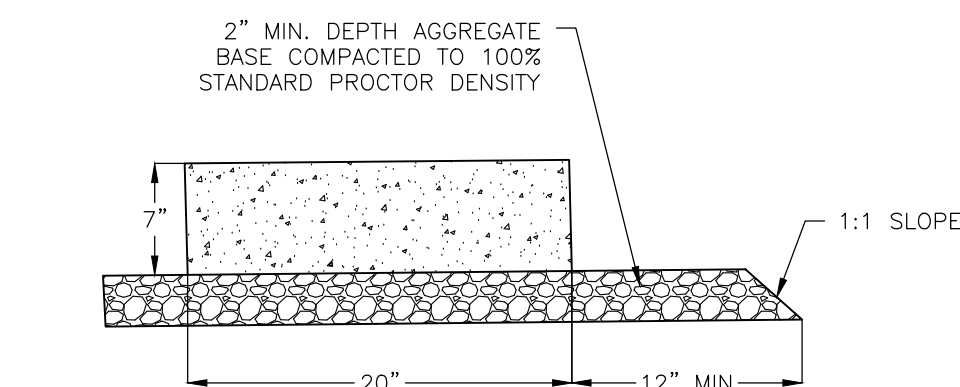
1. CENTER TO CENTER DOME SPACING: 1.6" MINIMUM, 2.4" MAXIMUM.
2. BASE TO BASE DOME SPACING: 0.65" MINIMUM, 0.75" MAXIMUM.
3. DOME BASE TO PLATE EDGE SPACING: 0.35" MINIMUM, 0.75" MAXIMUM.
4. SPACING VARIES ON RADIAL PLATES.
5. TYPICAL WIDTHS AVAILABLE: 12", 18", 24", 30", 36". CHECK WITH MANUFACTURERS FOR AVAILABLE WIDTHS.
6. ON RADIAL PLATE, RADUS DEFINED AT BACK OF CURB.
7. TYPICAL RADII. CHECK WITH MANUFACTURERS FOR AVAILABLE RADII.

NOTE:
FOR ADA COMPLIANT PEDESTRIAN RAMPS, REFER TO MN/DOT STANDARD PLAN 5-297.250 PEDESTRIAN CURB RAMP DETAILS AT THE FOLLOWING WEB ADDRESS:
[HTTP://STANDARDPLATES.DOT.STATE.MN.US/STDPLATE.ASPX](http://STANDARDPLATES.DOT.STATE.MN.US/STDPLATE.ASPX)

CONTRACTOR SHALL COORDINATE FINAL CURB RAMP LOCATION AND PEDESTRIAN CURB RAMP DETAIL WITH THE CITY AND OWNER PRIOR TO INSTALLATION.

6 PEDESTRIAN CURB RAMP - DETECTABLE WARNING C501 NOT TO SCALE

3 DOWNSPOUT DRAIN WITH SPLASH PAD AND CASTING C501 NOT TO SCALE



NOTE:
CURB SECTION IS TO SLOPE TOWARD PARKING LOT PER GRADING PLAN. TRANSITION INTO B612 CURBING USING NOSE-DOWN CURB SECTION.

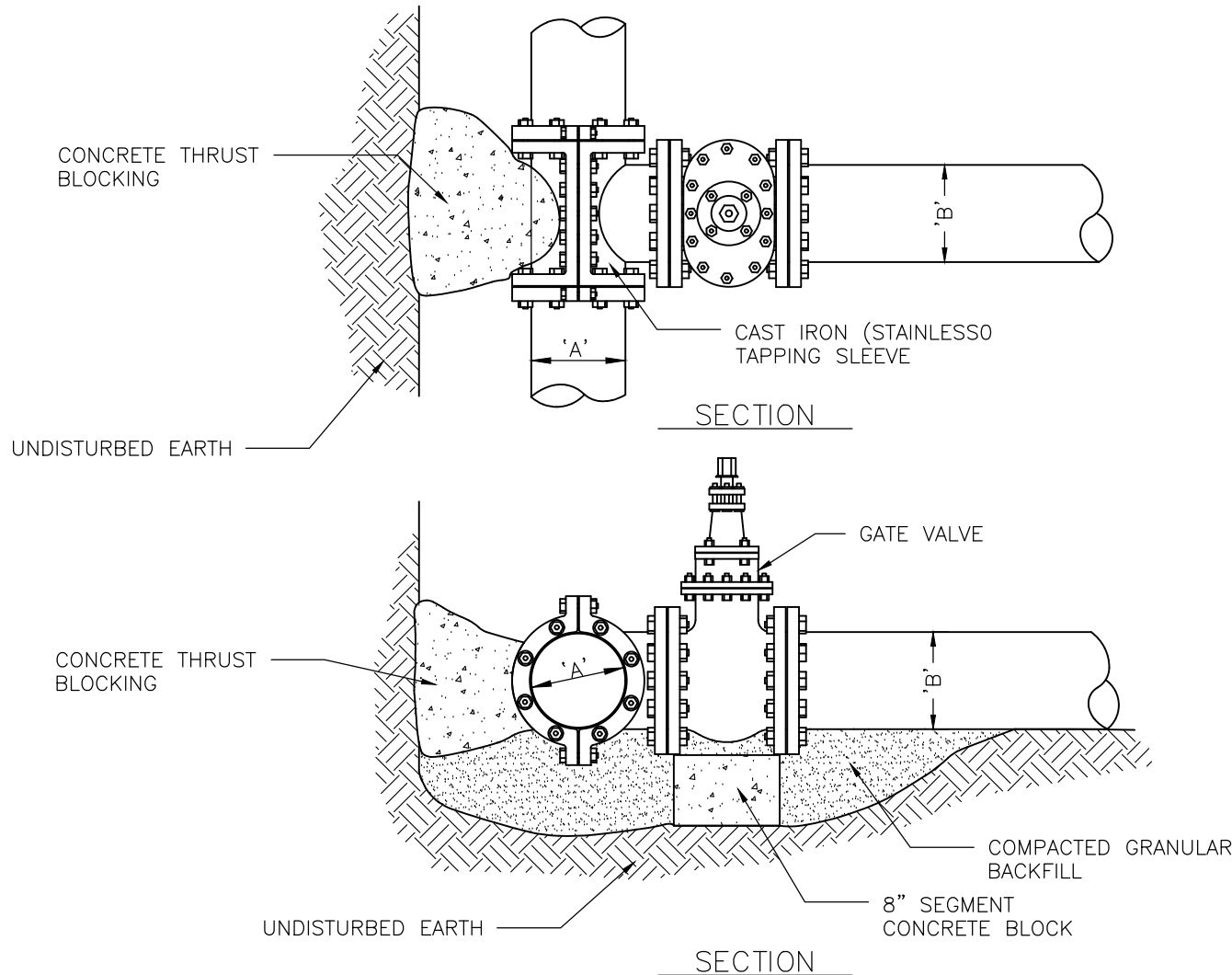
7 FLAT CURB/CONCRETE EDGER C501 NOT TO SCALE

		EXISTING PIPE "A"						
BRANCH PIPE "B"		18"	16"	14"	12"	10"	8"	6"
	12"	C,D	C,D	C	C			
	10"	C,D	C,D	C,D	C	C		
	8"	C,D	C,D	C,D	C,D	C	C	
	6"	C,D	C,D	C,D	C,D	C,D	C	C
	4"	C,D	C,D	C,D	C,D	C,D	C,D	C

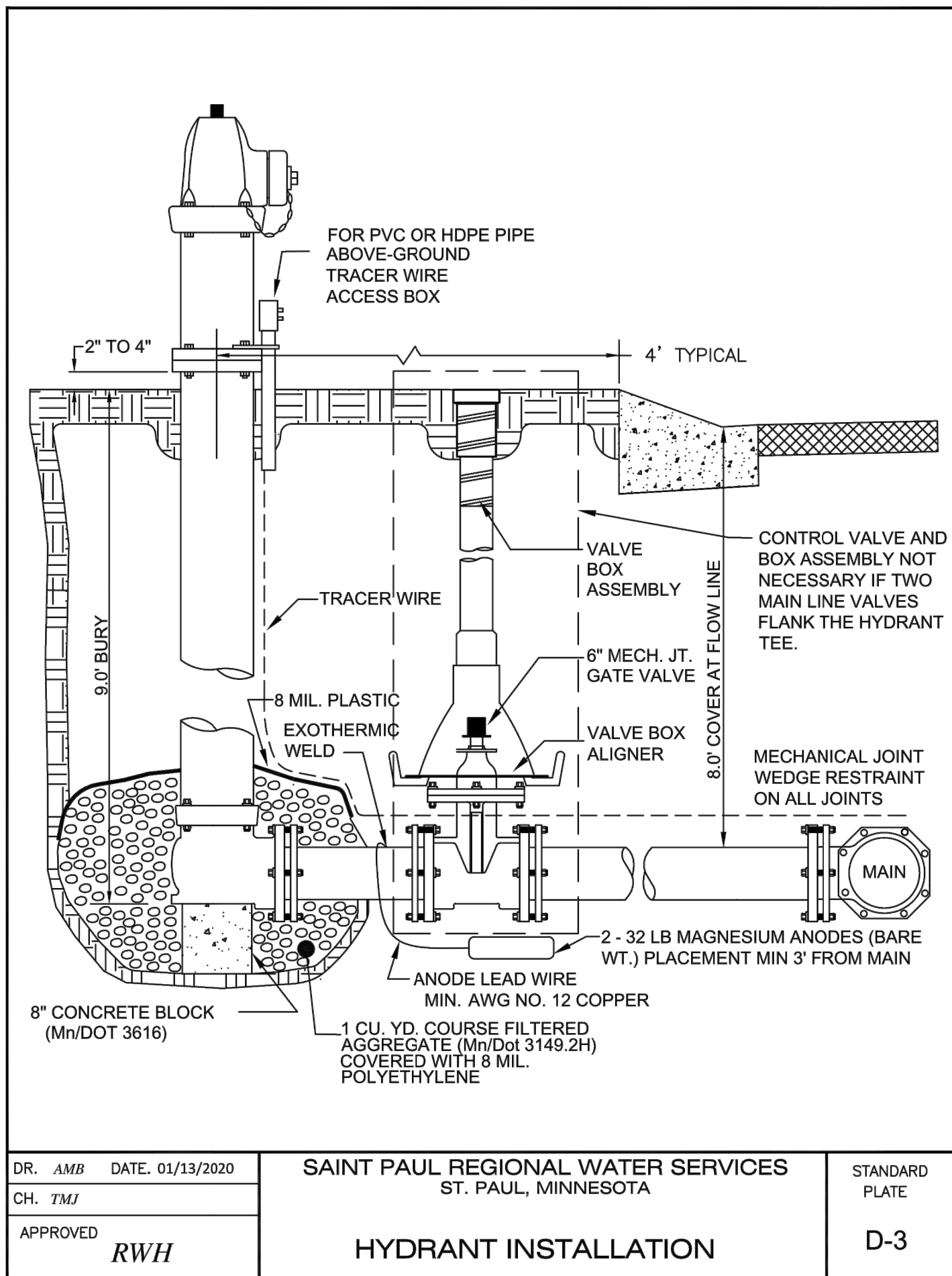
C - CLOW F-5205,TCIW A212A OR EQUAL, FULL CAST IRON TAPPING SLEEVE.

D - KENNEDY SQUARESAL OR EQUAL, CAST IRON TAPPING SLEEVE.

NOTE:
STAINLESS TAPPING SLEEVES ALLOWED AS EQUAL.

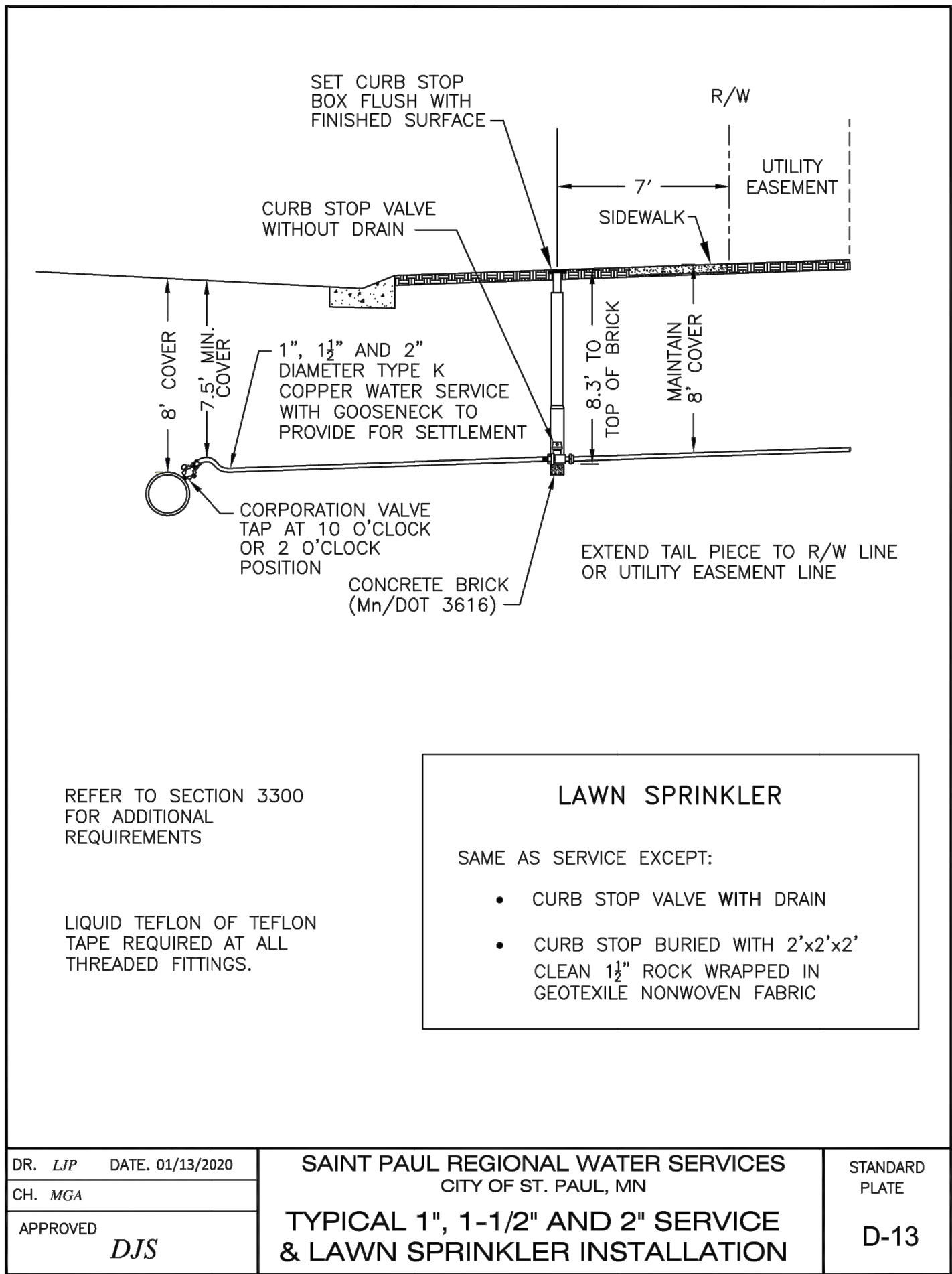


8 WATERMAIN WET TAP (TYP.) C501 NOT TO SCALE



DR. AMB DATE: 01/23/2020	SAINT PAUL REGIONAL WATER SERVICES ST. PAUL, MINNESOTA	STANDARD PLATE
CH. TMJ		
APPROVED RWJH	HYDRANT INSTALLATION	D-3

9 SPRWS HYDRANT C501 NOT TO SCALE



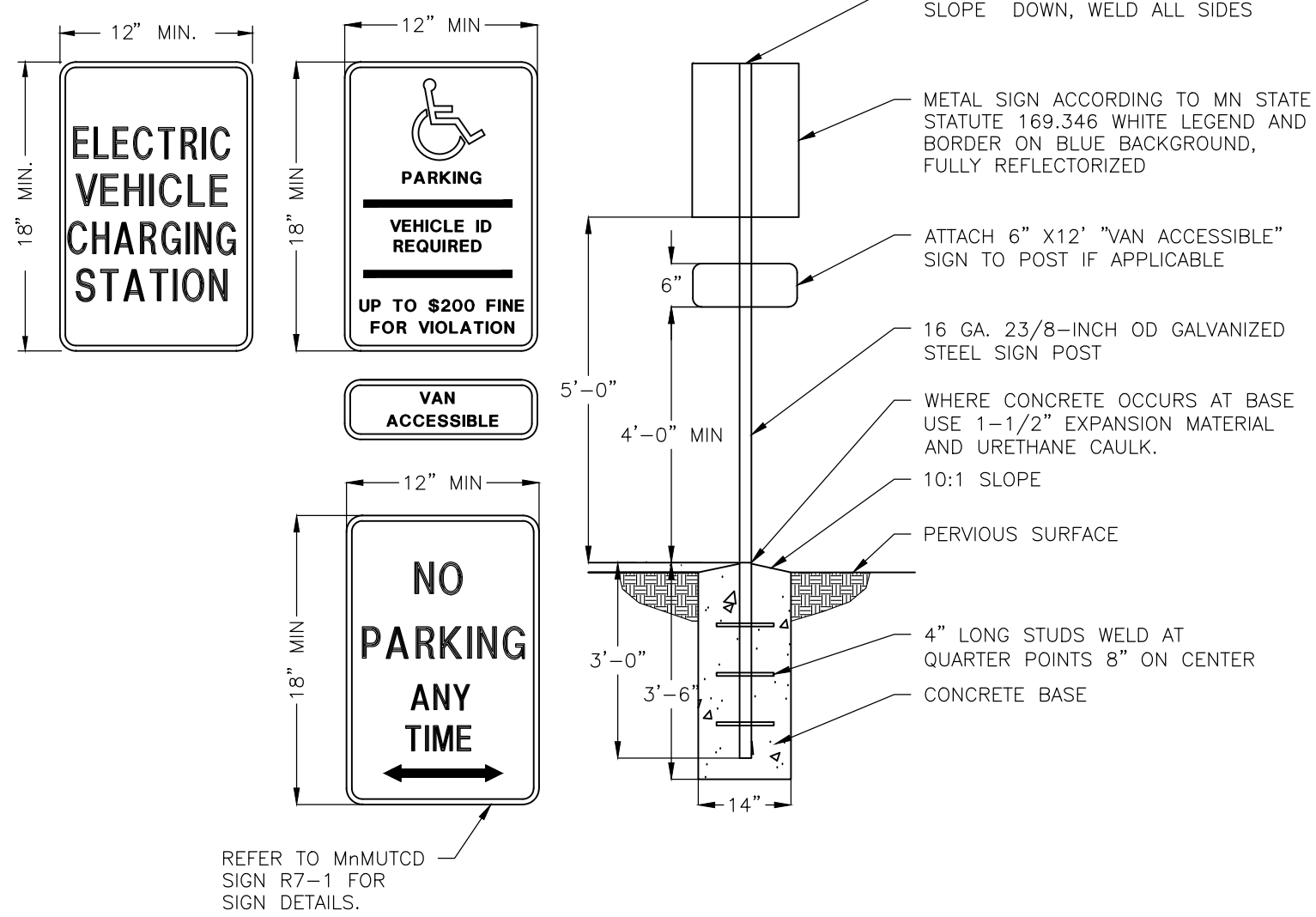
LAWN SPRINKLER

SAME AS SERVICE EXCEPT:

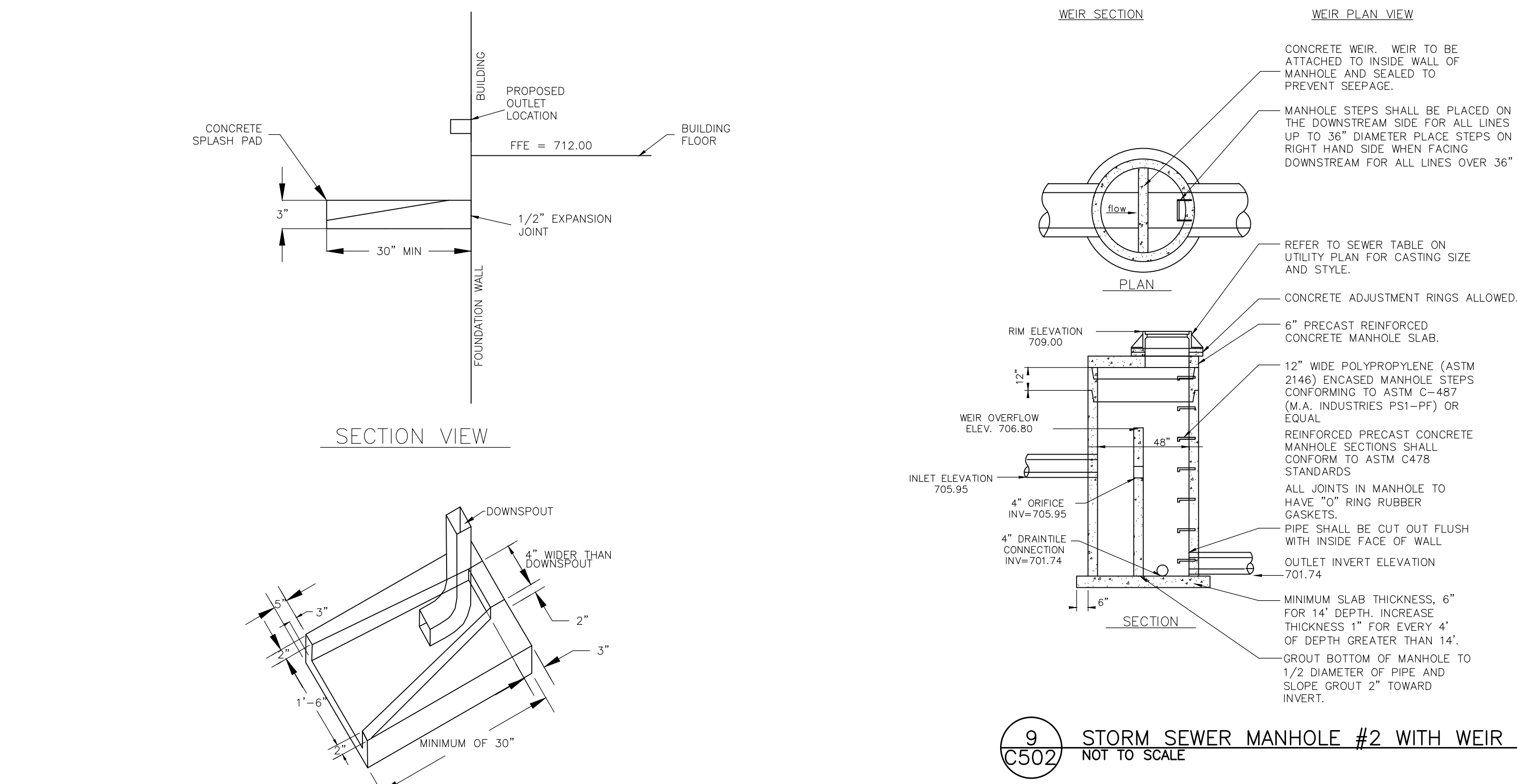
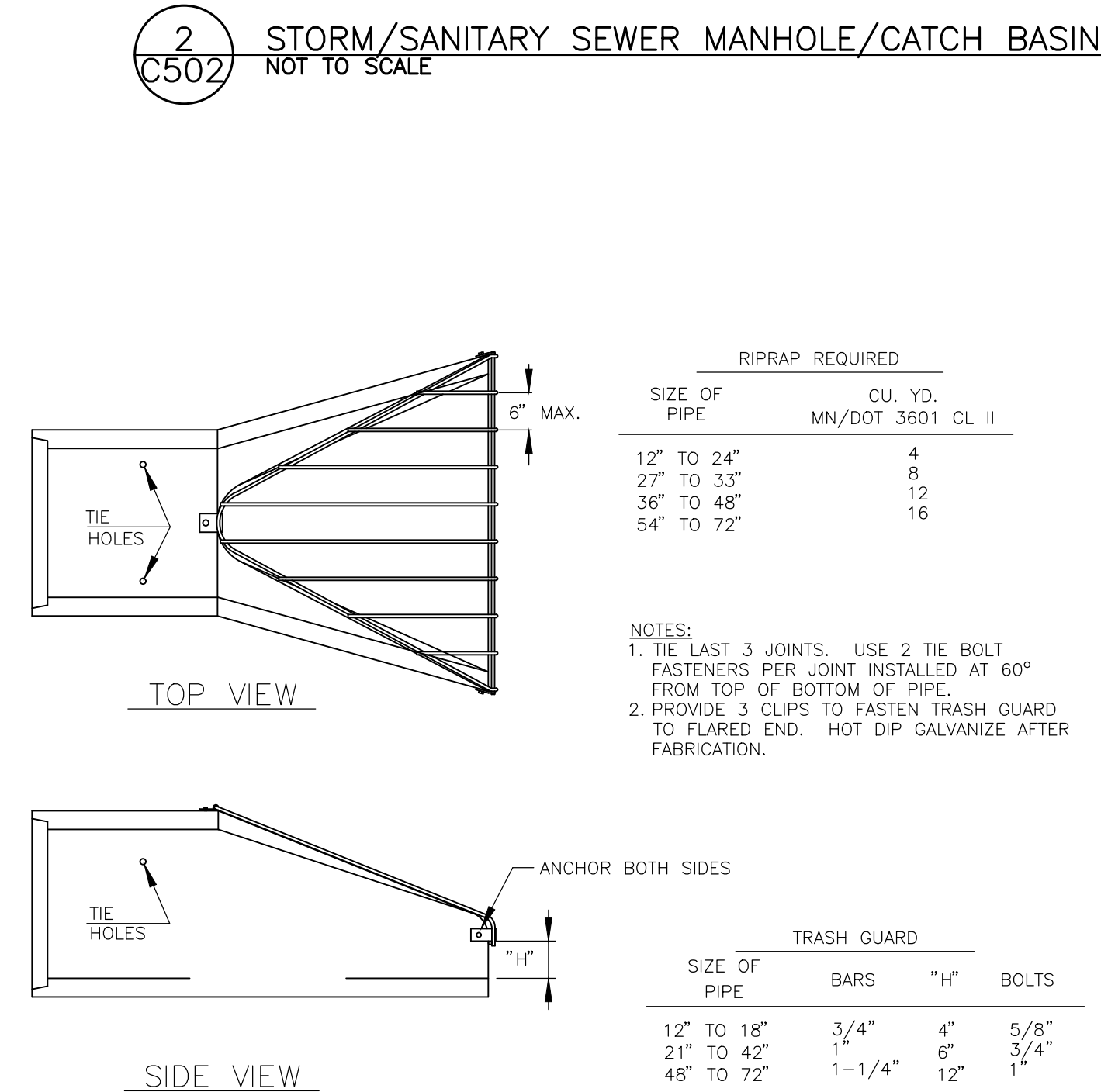
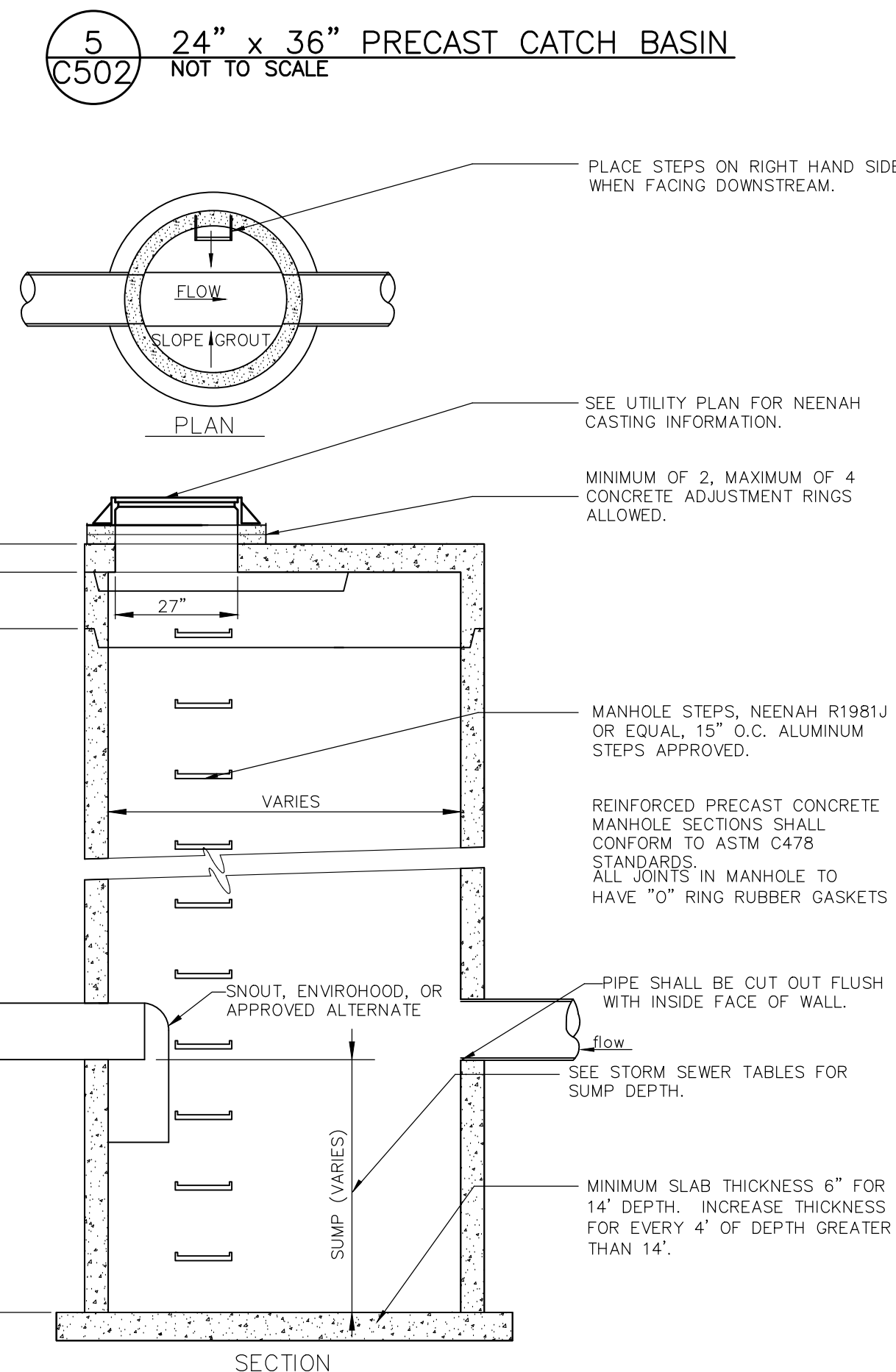
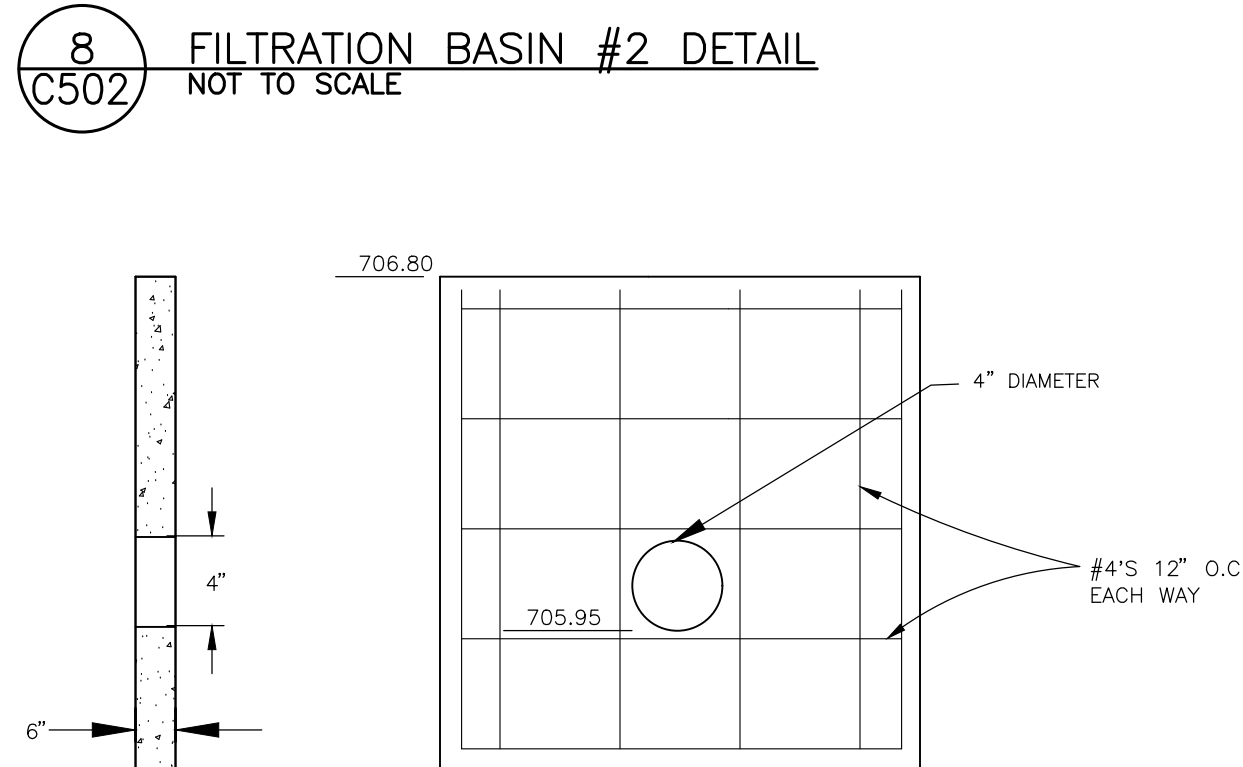
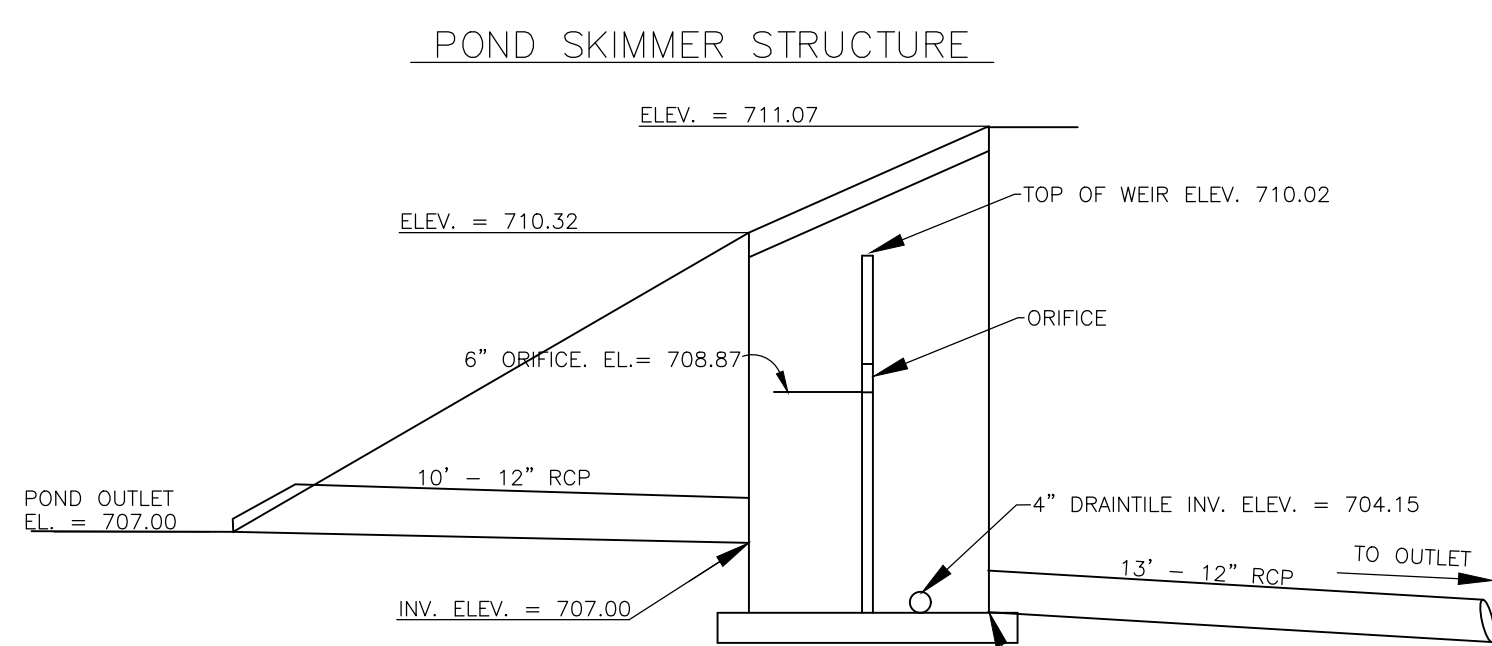
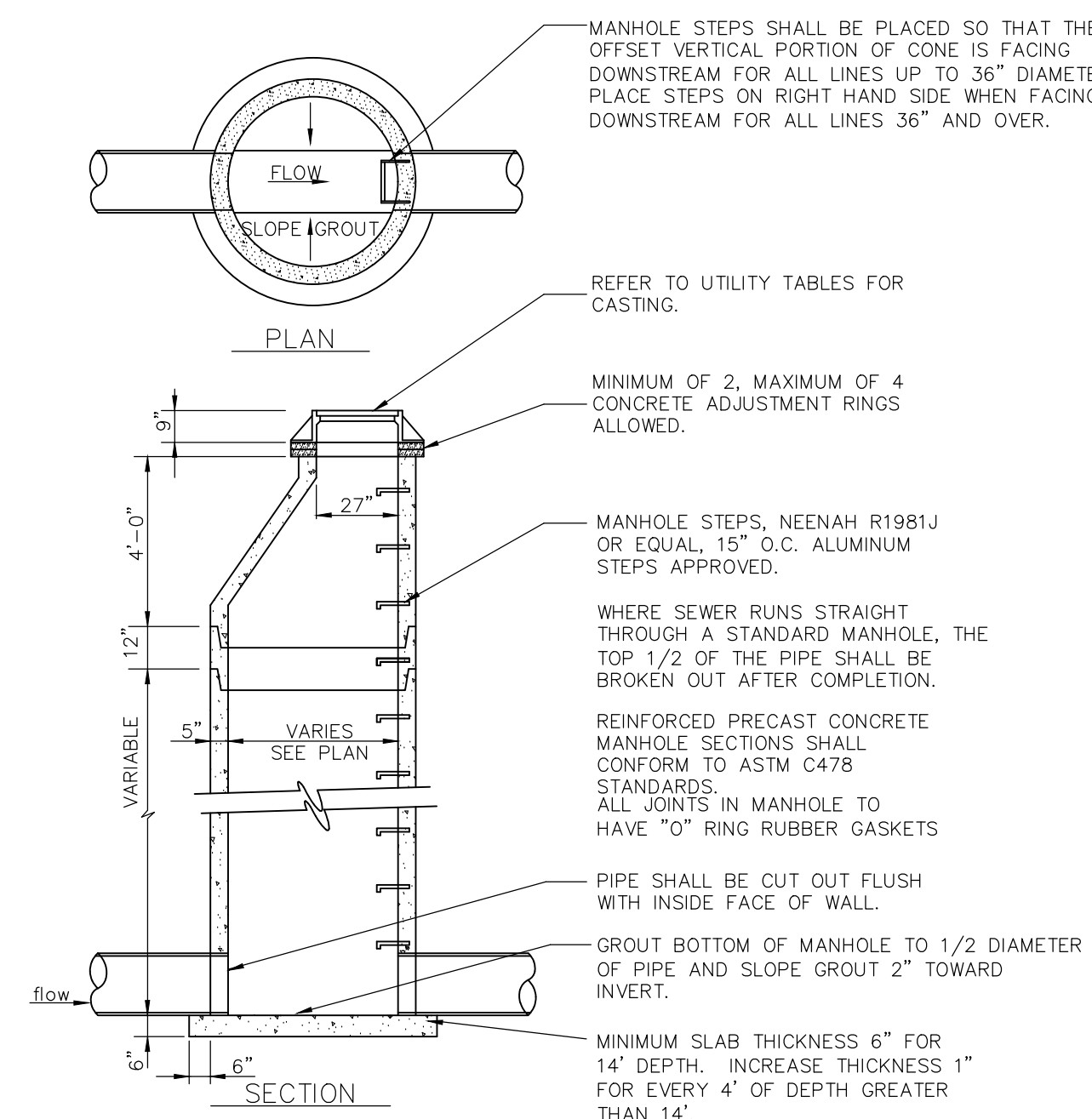
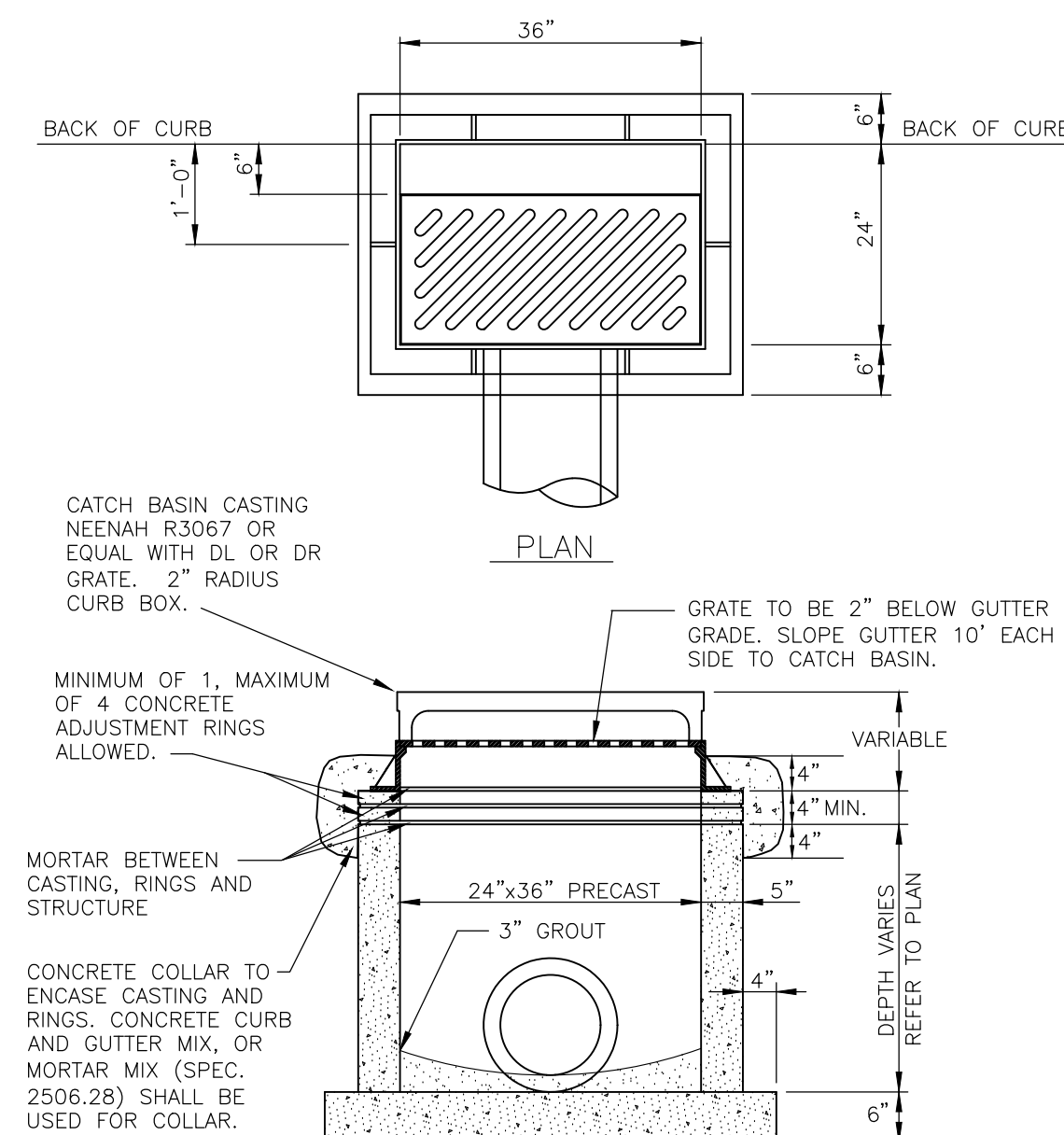
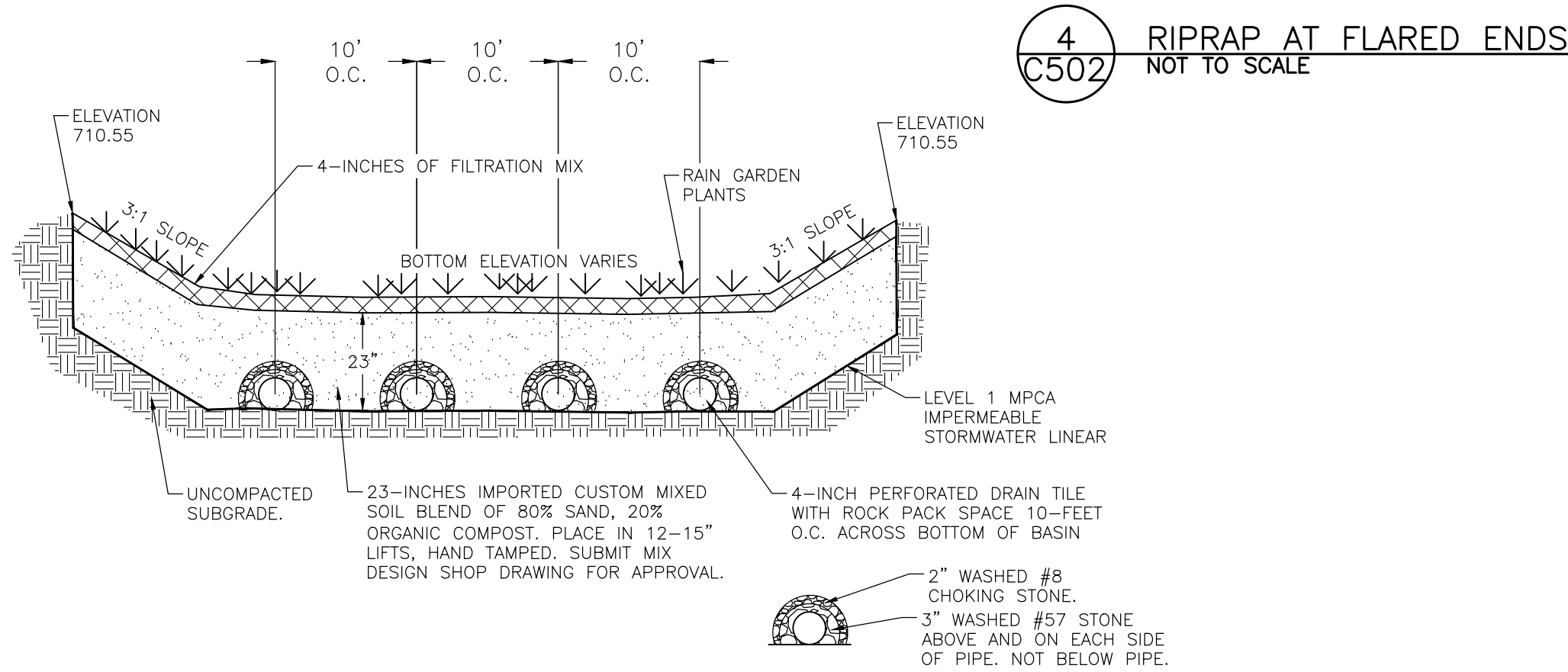
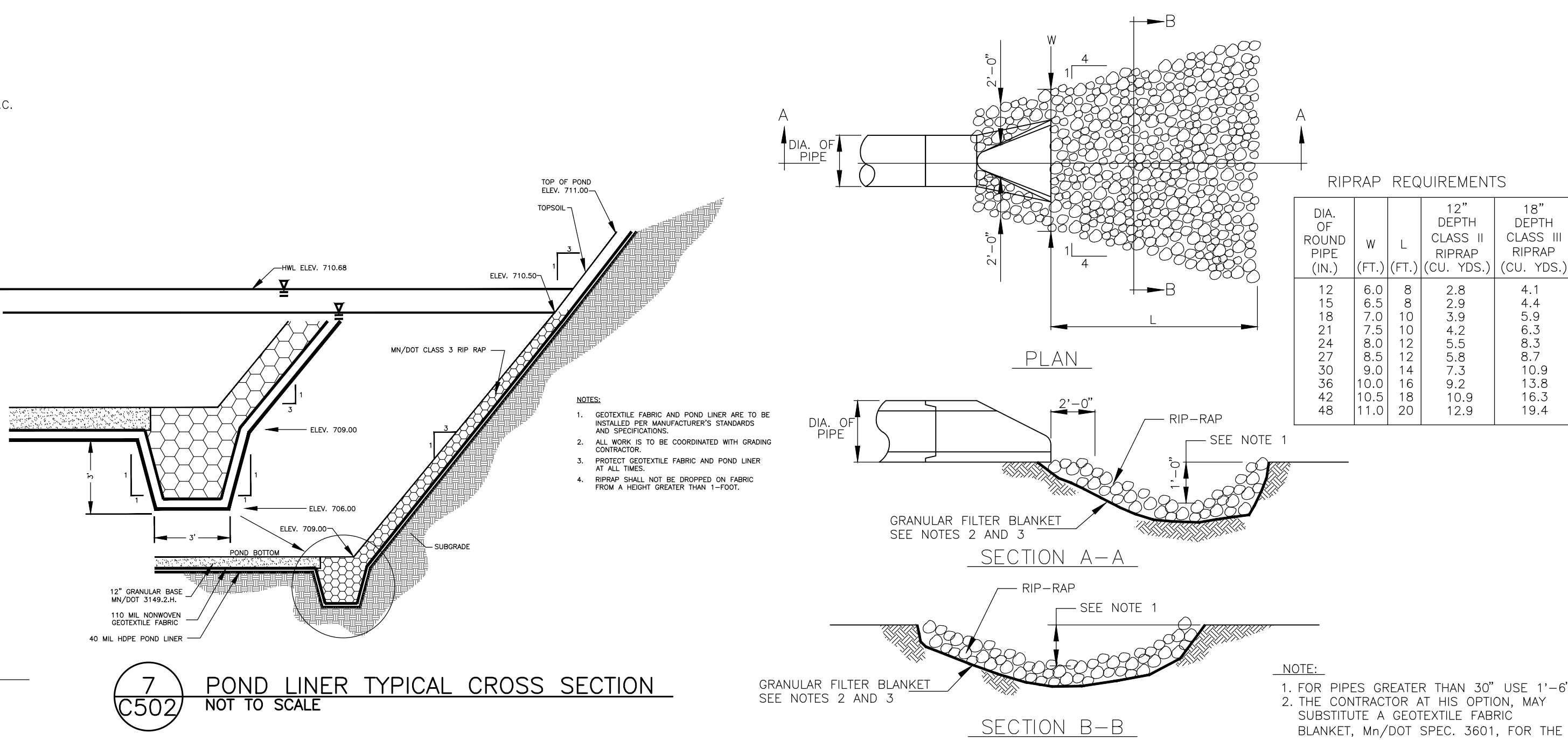
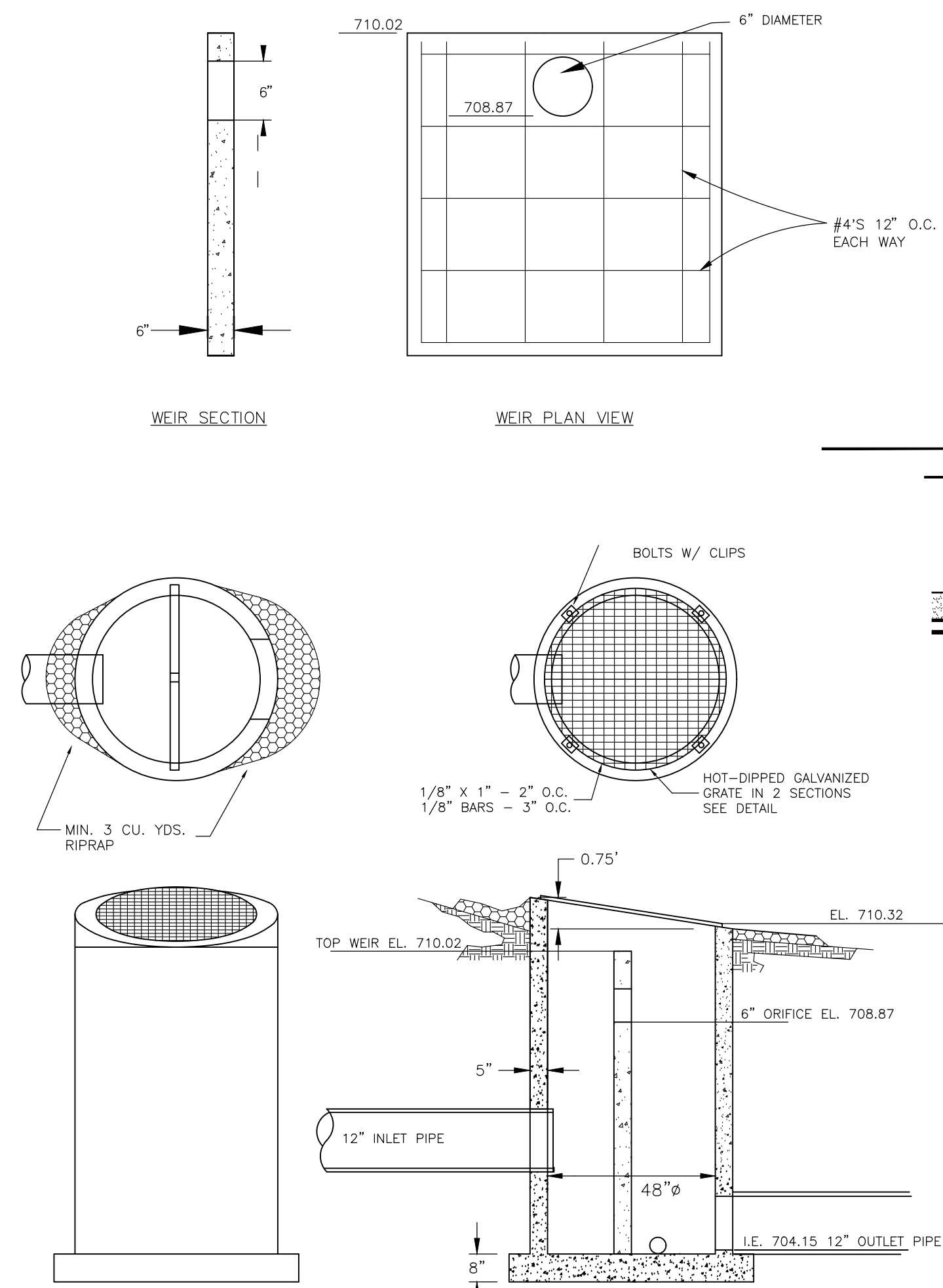
- CURB STOP VALVE WITH DRAIN
- CURB STOP BURIED WITH 2"x2"x2" CLEAN 1/4" ROCK WRAPPED IN GEOTEXTILE NONWOVEN FABRIC


DR. LJP DATE: 01/13/2020	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN	STANDARD PLATE
CH. MGA		
APPROVED DJS	TYPICAL 1", 1-1/2" AND 2" SERVICE & LAWN SPRINKLER INSTALLATION	D-13


10 COPPER SERVICE CONNECTION C501 NOT TO SCALE



11 ACCESSIBLE SIGN AND POST: GRASS AREA PLACEMENT C501 NOT TO SCALE

[illegible]

MANUFACTURED BY:				 FORTERRA Structural & Specialty	
REVISION HISTORY					
REV.	BY	DATE	DESCRIPTION		
A	RCH	06/29/16	TURBIDIT		
SCALE	VARIABLE				


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 Ham Lake, MN 55304
 763-434-2030

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License No.: 46674

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Project information	
Project name	Project number
Project name	Project number

Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name _____

Project Name

Wakan Tipi Center

Sheet Title

CIVIL DETAILS

Sheet Number

Current Revision

C502

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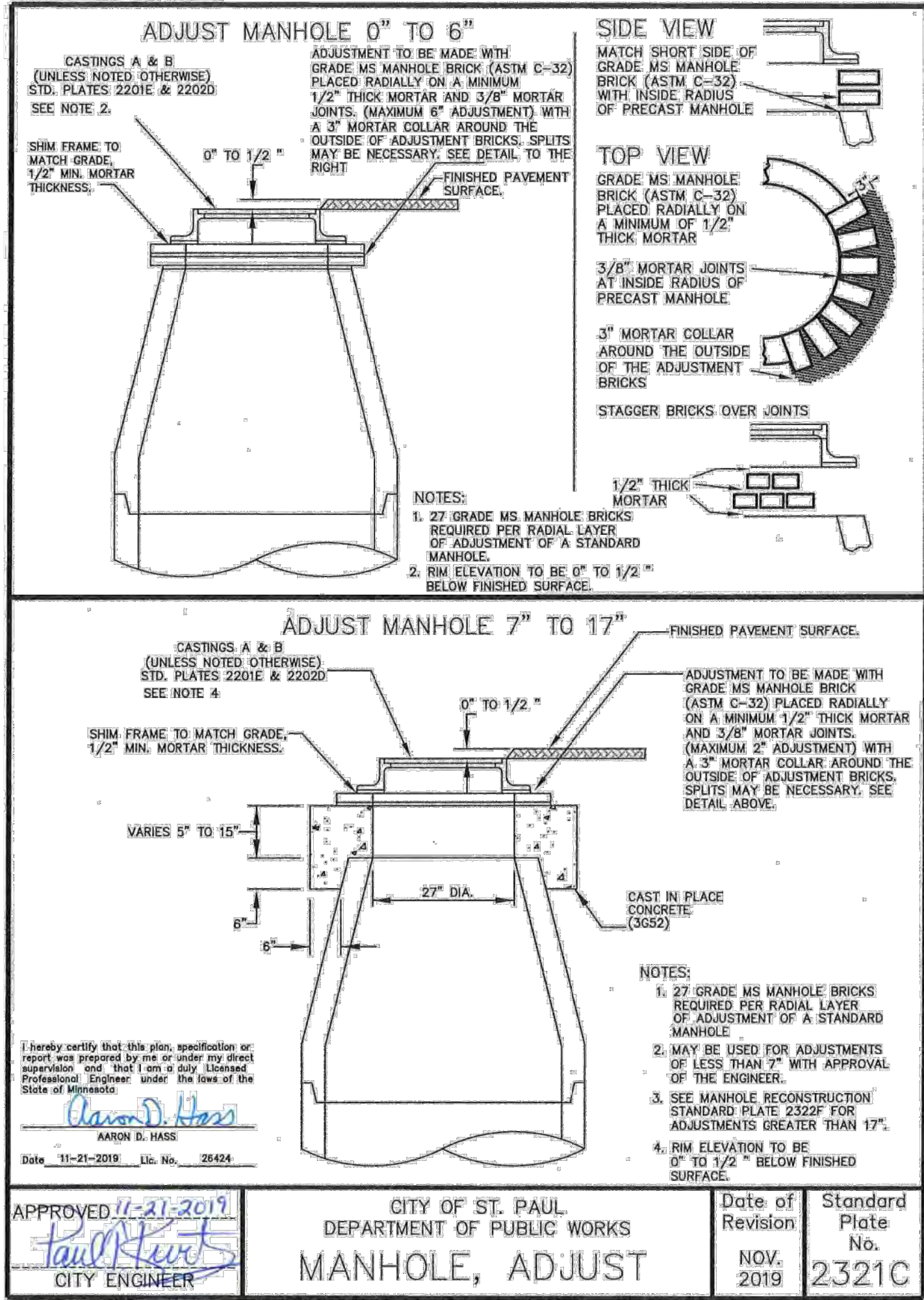
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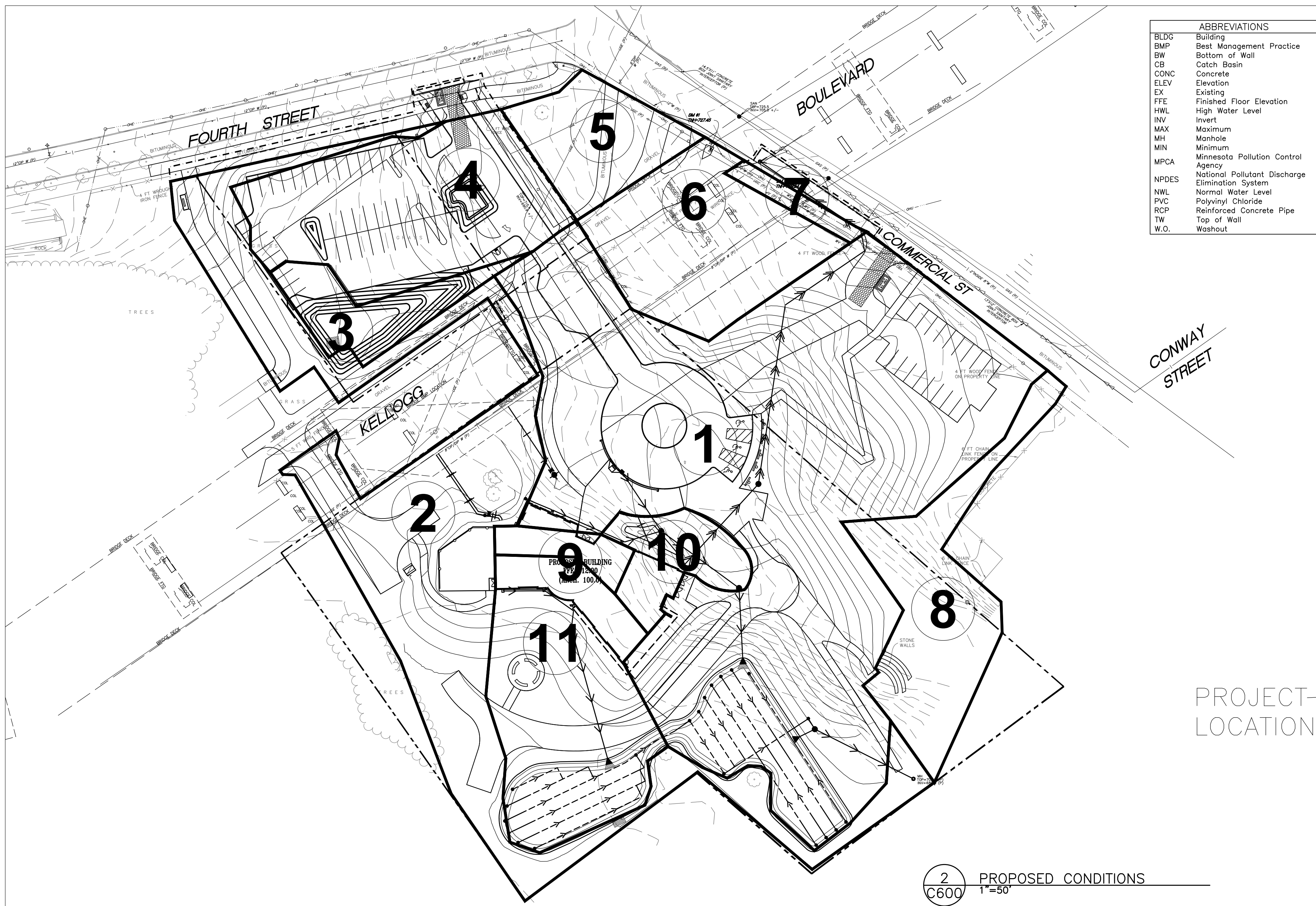
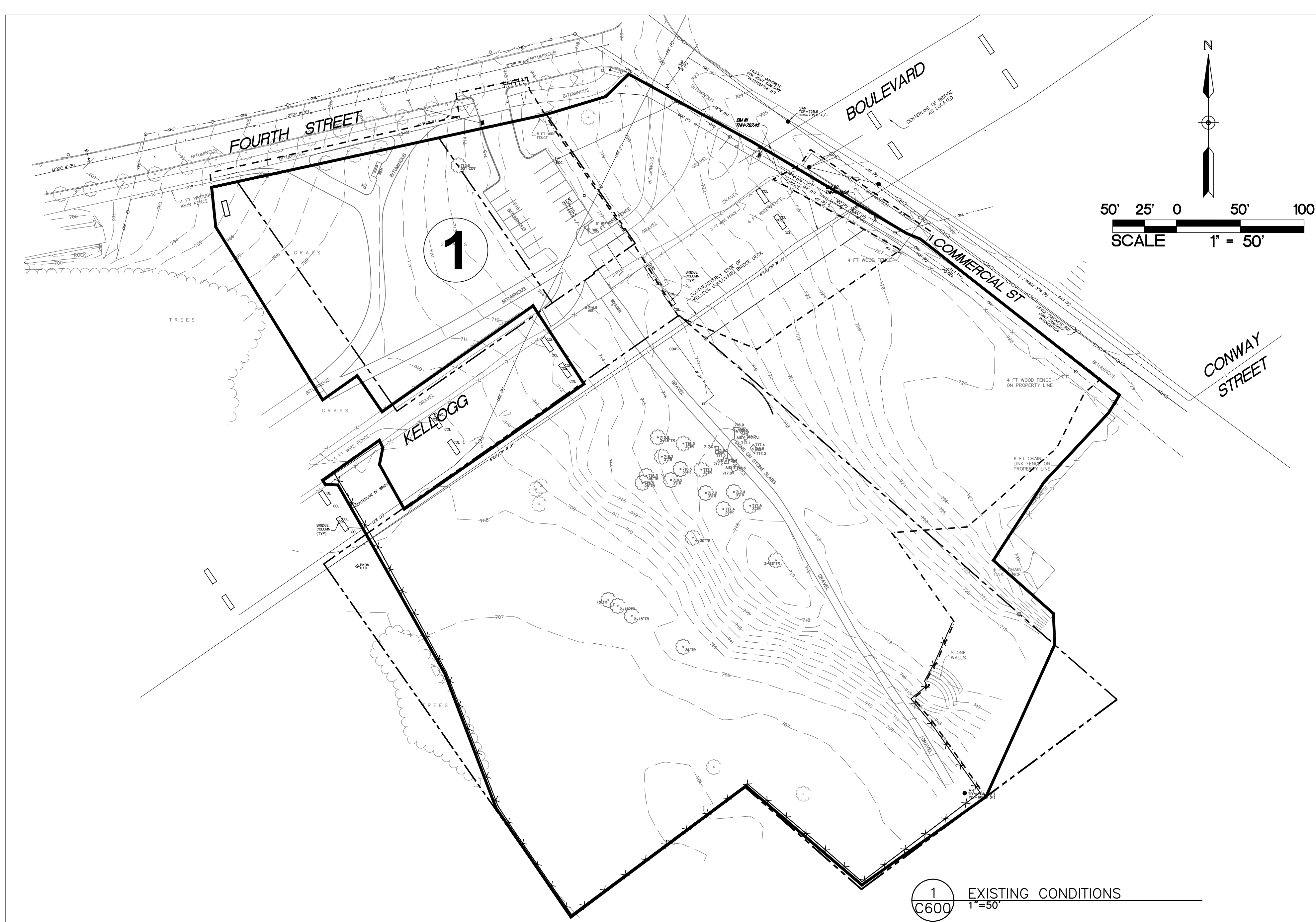
Sheet Number
C503

Current Revision

C503

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DRAINAGE AREA	EXISTING DRAINAGE AREAS			PROPOSED DRAINAGE AREAS			ROUTING
	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	
1	0.53	5.66	6.19	2.15	6.34	20.24	OFFSITE SOUTH
TOTAL	0.53	5.66	6.19	2.15	6.34	20.24	

DRAINAGE AREA	EXISTING DRAINAGE AREAS			PROPOSED DRAINAGE AREAS			ROUTING
	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	
1	0.88	1.55	2.43	—	—	—	FILTRATION BASIN #1
2	0.08	0.34	0.42	—	—	—	FILTRATION BASIN #1
3	0.00	0.04	0.04	—	—	—	FILTRATION BASIN #1
4	0.01	0.38	0.39	—	—	—	FILTRATION BASIN #1
5	0.06	0.00	0.06	—	—	—	FILTRATION BASIN #1
6	0.10	0.05	0.15	—	—	—	WET POND
7	0.18	0.39	0.57	—	—	—	FILTRATION BASIN #1
8	0.21	0.97	1.18	0.81	1.94	5.39	OFFSITE SOUTH
9	0.15	0.00	0.15	—	—	—	OFFSITE SOUTH
10	0.18	0.18	0.36	—	—	—	FILTRATION BASIN #2
11	0.05	0.17	0.22	—	—	—	FILTRATION BASIN #2
TOTAL	2.12	4.07	6.19	1.30	18.26	2.56	OFFSITE SOUTH

STORMWATER RUNOFF SUMMARY				
	2-YR STORM (2.81") RUNOFF (CFS)	10-YR STORM (4.19") RUNOFF (CFS)	100-YR STORM (7.36") RUNOFF (CFS)	100-YR STORM (5.90") RUNOFF (CFS)
EXISTING SITE	2.15	6.34	20.24	—
PROPOSED SITE	1.30	3.15	18.26	5.97
100-YEAR ST PAUL: 1.64 CFS X 5.16 AC = 8.46				

NOTE:

THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT INCLUDES THE CIVIL ENGINEERING PLANS AND THE PROJECT MANUAL. CONTRACTOR SHALL SUPPLY CONSTRUCTION PHASING NARRATIVE, ESTIMATED PRELIMINARY QUANTITIES OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S ANTICIPATED AT THE START OF THE PROJECT AND FOR THE LIFE OF THE PROJECT, AND LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS. CONTRACTOR IS TO REVIEW MINNESOTA POLLUTION CONTROL AGENCY'S INSTRUCTIONS FOR THE APPLICATION FOR MINNESOTA'S NPDES/SDS GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY PRIOR TO SUBMITTING APPLICATION.

INSPECTIONS

EXPOSED SOIL AREAS: ONCE EVERY 7 DAYS AND WITHIN 24 HOURS FOLLOWING A 1/2 INCH OVER 24 HOURS RAIN EVENT.
STABILIZED AREAS: ONCE EVERY 30 DAYS.
FROZEN GROUND: AS SOON AS RUNOFF OCCURS OR PRIOR TO RESUMING CONSTRUCTION.
RECORDS: A COPY OF THE GRADING, DRAINAGE EROSION CONTROL PLAN AND WATERSHED DATA & SWPPP PLANS AS WELL AS THE INSPECTIONS/MAINTENANCE LOGS ARE TO BE KEPT EITHER IN THE FIELD OFFICE, INSPECTOR'S VEHICLE OR CONTRACTOR'S VEHICLE.

FINAL STABILIZATION

STABILIZATION BY UNIFORM PERENNIAL VEGETATIVE COVER (70% DENSITY).
CLEAN OUT SEDIMENT FROM CONVEYANCES AND SEDIMENTATION BASINS (RETURN TO DESIGN CAPACITY).

GRADING & SOILS

BASED ON SOIL BORING(S) PROVIDED BY BRAUN INTEREST SOILS TYPICALLY FOUND ON THIS PROJECT ARE: SILTY SAND FILL MATERIAL WITH UNDERLYING CLAY, SILTY SAND.

REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

SPECIAL AND IMPAIRED WATERS

THESE SPECIAL AND IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE. DUE TO THE PROXIMITY OF THESE SPECIAL AND IMPAIRED WATERS THE BMP'S DESCRIBED IN APPENDIX A OF THE NPDES PERMIT WILL APPLY TO ALL AREAS OF THE SITE.

WATERBODY		IMPAIRMENT(S)	
AL	FC	NUTRIENTS	PCB-F, PFOS-F, PFOS-W
MISSISSIPPI RIVER			
MINIMUM ESTIMATED QUANTITIES FOR EROSION CONTROL		ESTIMATED QUANTITY	
ITEM DESCRIPTION			
DRAINAGE STRUCT, INLET FILTER	8	EACH	
ROCK CONSTRUCTION ENTRANCE	2	EACH	
CONCRETE WASHOUT	2	EACH	
SILT FENCE	3,000	LF	
EROSION CONTROL BLANKET	2,225	SY	
BIG-LOG	263	LF	

NOTE: QUANTITIES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL QUANTITIES MAY BE NEEDED IF REQUIRED BY THE MPCA WATERSHED DISTRICT, OR CITY. CONTRACTOR IS RESPONSIBLE FOR FINAL DETERMINATION OF QUANTITIES PRIOR TO CONSTRUCTION.

PROJECT NARRATIVE

EXISTING SITE DESCRIPTION --- THE TOTAL EXISTING SITE BEING ANALYZED IS APPROXIMATELY 6.15 ACRES. THE SITE CONSISTS OF BITUMINOUS AND GRAVEL TRAILS, A PARKING LOT, AND GREEN SPACE. AN OLD RAILROAD FACILITY USED TO BE PRESENT ON-SITE AND CAUSED SOIL CONTAMINATION THROUGHOUT. CURRENTLY THERE ARE NO STORMWATER BMP'S ON SITE.
PROPOSED SITE DESCRIPTION --- THE PROPOSED SITE WILL CONSIST OF 1.96 ACRES OF NEW AND RECONSTRUCTED IMPERVIOUS. SITE IMPROVEMENTS INCLUDE A NEW BUILDING, NEW PARKING LOTS, ACCESS ROADS, AND ASSOCIATED UTILITIES. STORMWATER WILL BE TREATED ON SITE THROUGH TWO SURFACE FILTRATION BASINS.

CONSTRUCTION ACTIVITY EROSION PREVENTION PRACTICES

CONTRACTOR SHALL STABILIZE ALL EXPOSED SOIL AREAS (INCLUDING STOCKPILES). STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

FOR PUBLIC WATER THAT THE DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, ALL EXPOSED SOIL AREAS THAT ARE WITHIN 200 FEET OF THE WATER'S EDGE, AND DRAIN TO THESE WATERS MUST COMPLETE THE STABILIZATION ACTIVITIES WITHIN 24 HOURS DURING THE RESTRICTION PERIOD.

PHYSICAL OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24-HOURS AFTER CONNECTION TO A SURFACE WATER.
SEDIMENT CONTROL MEASURES MUST BE INSTALLED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADE LAND DISTURBING ACTIVITIES BEGIN.

SEDIMENT AND EROSION CONTROL MAINTENANCE

PERIMETER SEDIMENT CONTROL PRACTICES: WHEN SEDIMENT REACHES 1/3 THE HEIGHT OF THE BMP, THE SEDIMENT MUST BE REMOVED WITHIN 24 HOURS. IF PERIMETER SEDIMENT CONTROL HAS BEEN DAMAGED OR IS NOT FUNCTIONING PROPERLY, IT MUST BE REPAIRED AND/OR REPLACED WITHIN 24 HOURS. PERIMETER BMP MEASURES MAY INCLUDE SILT FENCING.
CONSTRUCTION SITE VEHICLE EXIT LOCATIONS: ALL TRACKED SEDIMENT ONTO PAVED SURFACES MUST BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR MORE FREQUENTLY IF REQUIRED BY CITY OR WATERSHED.

CONSTRUCTION SITE DETERIORATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS. DISCHARGE FROM ALL DEWATERING OPERATIONS SHALL BE DIRECTED TO ON-SITE DEPRESSIONS. NO DISCHARGE FROM DEWATERING OPERATIONS SHALL BE DIRECTED OFF-SITE TOWARDS A WATER OF THE STATE.

PORTABLE TOILET NOTES:

- PORTABLE TOILETS POSE AN ENVIRONMENTAL HAZARD WHEN PLACED IN THE VICINITY OF STORM DRAINS OR BODIES OF WATER. PORTABLE TOILET CLEANING ACTIVITIES CAN ALSO GENERATE POLLUTANTS THAT CAN DEGRADE WATER QUALITY.
- PORTABLE TOILET PLACEMENT:
 - PLACE PORTABLE TOILETS ON FLAT STABLE GROUND WITH CLEAR ACCESS TO THE UNITS.
 - LOCATE TOILETS A MINIMUM OF 20 FEET FROM ANY WATER BODY AND 10 FEET FROM ANY CURB AND GUTTER. IF UNFEASIBLE, AN EARTHEN BERM OR SAND BAG BERM SHALL BE PLACED AROUND THE UNIT FOR SPILL AND LEAK CONTAINMENT.
 - AVOID PLACING TOILETS ON IMPERVIOUS SURFACES THAT WILL QUICKLY DRAIN TO STORM SEWERS.
 - LOCATE TOILETS SO THAT EXPOSURE TO TRAFFIC AND MOVING EQUIPMENT IS MINIMIZED.
 - SECURE TOILETS TO THE GROUND WITH STAKES OR CABLES.
 - RINSE WATER FROM CLEANING ACTIVITIES SHALL NOT BE DISPOSED ON SITE.
 - REGULARLY CHECK TOILETS FOR DAMAGE, LEAKS AND SPILLS AS PART OF THE WEEKLY STORMWATER SITE INSPECTION.
- OWNER IDENTIFICATION AND CONTACT INFORMATION SHALL BE DISPLAYED IN A PROMINENT LOCATION ON EACH UNIT.

OTHER NOTES:

- LONG TERM MAINTENANCE OF THE SITE WILL BE PERFORMED BY THE OWNER, XXXXX. INCLUDED MAINTENANCE FOR STORMWATER DEVICES SHALL BE:
 - INSPECT SUMP CATCH BASINS ON A BIENNIAL BASIS, ONCE IN THE SPRING AND ONCE IN THE FALL.
 - CLEAN SUMP CATCH BASINS OF SEDIMENT AND DEBRIS ANNUALLY OR WHEN SEDIMENTS FILL 1/3 OF THE STORAGE VOLUME.
- THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE ON FILE WITH BKBM AND ARE AVAILABLE UPON REQUEST.
- THIS SWPPP DOCUMENT MUST BE AMENDED AS NECESSARY DURING CONSTRUCTION IN ORDER TO KEEP IT CURRENT WITH THE POLLUTANT CONTROL MEASURES UTILIZED AS THE SITE. THE SITE MAP SHOWING LOCATIONS OF ALL STORM WATER CONTROLS MUST BE POSTED ON THE SITE AND UPDATED TO REFLECT THE PROGRESS OF CONSTRUCTION.

POLLUTION PREVENTION MANAGEMENT MEASURES

SOLID WASTE DISPOSED PROPERLY; COMPLY WITH MPCA REQUIREMENTS.

HAZARDOUS WASTE STORED (SECONDARY CONTAINMENT, RESTRICTED ACCESS) DISPOSED IN COMPLIANCE WITH MPCA REQUIREMENTS.

NO EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION ALLOWED ON-SITE.

CONCRETE WASHOUT AREA INDICATED ON THE PLANS IS SHOWN IN AN APPROXIMATE LOCATION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION IN ACCORDANCE WITH MPCA REQUIREMENTS.

BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS MUST BE UNDER COVER. PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER.

HAZARDOUS MATERIALS, TOXIC WASTE (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGES.

HANDLING AND STORAGE OF HAZARDOUS MATERIALS

IF THE CONTRACTOR INTENDS TO USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ON THE PROJECT SITE, THE CONTRACTOR MUST COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

- THE CONTRACTOR MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT. CHEMICALS MAY ONLY BE APPLIED WHERE TREATED STORMWATER IS DIRECTED TO A SEDIMENT CONTROL SYSTEM WHICH ALLOWS FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE.
- CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION, AND TO THE EXPECTED TURBIDITY, PH AND FLOW RATE OF STORMWATER FLOWING INTO THE CHEMICAL TREATMENT SYSTEM OR AREA.
- CHEMICALS MUST BE USED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, AND WITH DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR PROVIDER/SUPPLIER OF THE APPLICABLE CHEMICALS.

ON-SITE FUEL TANKS REQUIRE SECONDARY CONTAINMENT AS REQUIRED BY THE PERMIT. PORTABLE FUEL TRUCKS SHALL HAVE THEIR SPILL KITS AVAILABLE DURING FUELING. SPILLS GREATER THAN 5 GALLONS MUST BE REPORTED TO THE PROPER AUTHORITIES.

MECHANICAL AND NON STORMWATER DISCHARGES, EXISTING AND PROPOSED

- WATER LINE FLUSHING
- LANDSCAPE IRRIGATION
- UNCONTAMINATED PUMPED GROUND WATER
- DISCHARGE FROM POTABLE WATER SOURCES
- FOUNDATION DRAINS
- AIR CONDITIONING CONDENSATION

AGENCY CONTACTS

CITY OF ST. PAUL
ENGINEERING DEPARTMENT
PHONE: (651) 266-6270

MINNESOTA POLLUTION CONTROL AGENCY
PHONE: (651) 296-6300

CAPITOL REGION WATERSHED DISTRICT
PHONE: (651) 644-8888

OWNER
COMPANY
ADDRESS
PHONE: (XXX) XXX-XXXX

NOTE:

THE CONTRACTOR MUST COMPLETE, SIGN, OBTAIN OWNERS SIGNATURE, PAY FEE, AND SEND IN THE NPDES PERMIT APPLICATION. CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR. SWPPP DOCUMENTATION, INCLUDING INSPECTION REPORTS SHALL BE RETAINED FOR A PERIOD OF THREE (3) YEARS. DESIGN CALCULATIONS ARE ON FILE AT BKBM.

THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S, BEFORE CONSTRUCTION AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED.

STOCKPILES:

ON-SITE STOCKPILES OF SOIL SHALL HAVE PERIMETER SEDIMENT CONTROL. STOCKPILES SHALL BE STABILIZED WITH BLANKETS, TARPS, OR HYDRO MULCH IF LEFT ON-SITE FOR MORE THAN 7 DAYS.

TEMPORARY SEDIMENT BASINS:

TEMPORARY SEDIMENT BASINS SHALL BE PROVIDED PER APPENDIX A, SECTION C1.8 OF THE MPCA GENERAL STORMWATER PERMIT.

ENGINEER ANTICIPATES THAT, PRIOR TO INSTALLATION OF FILTRATION MEDIA AND DRAIN TILE, CONTRACTOR WILL USE PROPOSED FILTRATION BASINS AS TEMPORARY SEDIMENT BASINS. CONTRACTOR SHALL EXCAVATE TEMPORARY BASINS AND CLAY LINE PRIOR TO USE. SURFACE WATER SHALL BE REMOVED BY SKIMMER DEVICE SUCH AS HAND-OPERATED SKIMMER OR THRU-HOOK, OR USING A PUMP WITH A FILTER. ALTERNATIVE TEMPORARY SEDIMENT BASINS SHALL BE APPROVED BY ENGINEER PRIOR TO USE.

IN LIEU OF USING TEMPORARY SEDIMENT BASINS, THE CONTRACTOR MAY PHASE THEIR CONSTRUCTION IF THEY NOT MORE THAN 5 ACRES OF AREA IS DISTURBED AT ONE TIME. FULL STABILIZATION OF THE DISTURBED AREA IS REQUIRED PRIOR TO DISTURBING ADDITIONAL AREAS (IMPAIRED ONLY).

SWPPP IMPLEMENTATION, INSTALLATION, INSPECTION, AND BMP MAINTENANCE

SHALL BE PERFORMED BY THE CONTRACTOR.

NAME: _____

CERTIFICATION #: _____

DATE: _____

NOTE:

AN AS-BUILT SURVEY OF ALL STORMWATER BMP'S (FILTRATION BASIN, OUTLET STRUCTURES, DRAINAGE, CLEAN OUTF, SUMP CATCH BASINS, ETC...) SHALL BE SUBMITTED TO CAPITOL REGION WATERSHED DISTRICT PRIOR TO PROJECT CLOSURE. THE AS-BUILT SURVEY SHALL INCLUDE THE FILTRATION BASIN TRAIN TILE INVERTS AND LAYOUT FOR VERIFICATION THE THE SYSTEM WAS INSTALLED PROPERLY AND THAT 18-INCHES OF SAND/FILTRATION MIX OVER THE TOP OF THE DRAIN TILE HAS BEEN PROVIDED.

NOTE:

AN AS-BUILT SURVEY OF ALL STORMWATER BMP'S (FILTRATION BASIN, OUTLET STRUCTURES, DRAINAGE, CLEAN OUTF, SUMP CATCH BASINS, ETC...) SHALL BE SUBMITTED TO CAPITOL REGION WATERSHED DISTRICT PRIOR TO PROJECT CLOSURE. THE AS-BUILT SURVEY SHALL INCLUDE THE FILTRATION BASIN TRAIN TILE INVERTS AND LAYOUT FOR VERIFICATION THE THE SYSTEM WAS INSTALLED PROPERLY AND THAT 23-INCHES OF SAND/FILTRATION MIX OVER THE TOP OF THE DRAIN TILE HAS BEEN PROVIDED.

ADDITIONAL WATERSHED NOTES:

- CONTRACTOR SHALL DEVELOP A DEWATERING PLAN BEFORE THE START OF CONSTRUCTION AND SUBMIT PLAN TO THE CAPITOL REGION WATERSHED DISTRICT FOR REVIEW.
- FILTRATION BASIN PERIMETER CONTROL, AND EROSION CONTROL PRACTICES SHALL REMAIN IN PLACE UNTIL THE FINAL COMPLETION OF THE PROJECT OR VEGETATION HAS BEEN ESTABLISHED (WHICHEVER IS LATER).
- INSTALLATION OF FILTRATION PRACTICES SHALL BE DONE DURING PERIODS OF DRY WEATHER AND COMPLETED BEFORE A RAINFALL EVENT. PLACEMENT OF ENGINEERED SOILS SHALL BE ON DRY NATIVE SOIL ONLY.
- THE BOTTOM EXCAVATION SURFACE OF FILTRATION AREAS SHALL BE LEVEL WITHOUT DIPS OR SWALES.
- DURING CONSTRUCTION, STORMWATER MUST BE ROUTED AROUND FILTRATION AREAS UNTIL ALL CONSTRUCTION ACTIVITY HAS CEASED AND TRIBUTARY SURFACES ARE CLEANED OF SEDIMENT.
- ENGINEERED SOIL SHALL REMAIN UNCONTAMINATED (NOT MIXED WITH OTHER SOIL) BEFORE AND DURING INSTALLATION.
- SILT FENCE OR FABRIC PLACED UNDER THE GRATE IS NOT AN APPROVED FORM OF INLET PROTECTION.
- CONTRACTOR SHALL NOTIFY THE CAPITOL REGION WATERSHED DISTRICT AT LEAST 24 HOURS IN ADVANCE BEFORE CONSTRUCTION OF ANY STORMWATER BMP.

201 Main Street SE | Suite 325 | Minneapolis | MN 55414
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Consultant

BKBK
ENGINEERS

6101 Earle Brown Drive, Suite 700
Minneapolis, MN 55425-2518
Phone: (763) 845-0420
Fax: (763) 845-0421
www.bkbk.com

I here by certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Minnesota.

Name: Keith Matte
License No.: 46674

90% CONSTRUCTION SET

Revisions

No.	Date	Description
02/04/2021		Design Development
02/10/2021		Watershed Review
04/16/2021		Site Plan Review
04/29/2021		Watershed Resubmittal
05/18/2021		Watershed Resubmittal

Project Information

Phase:	DD	Date:	05/18/2021
Project No.:	20232	PIC / AIC:	

Project Name
Wakan Tipi Center

Sheet Title
Storm Water Pollution
Prevention Plan

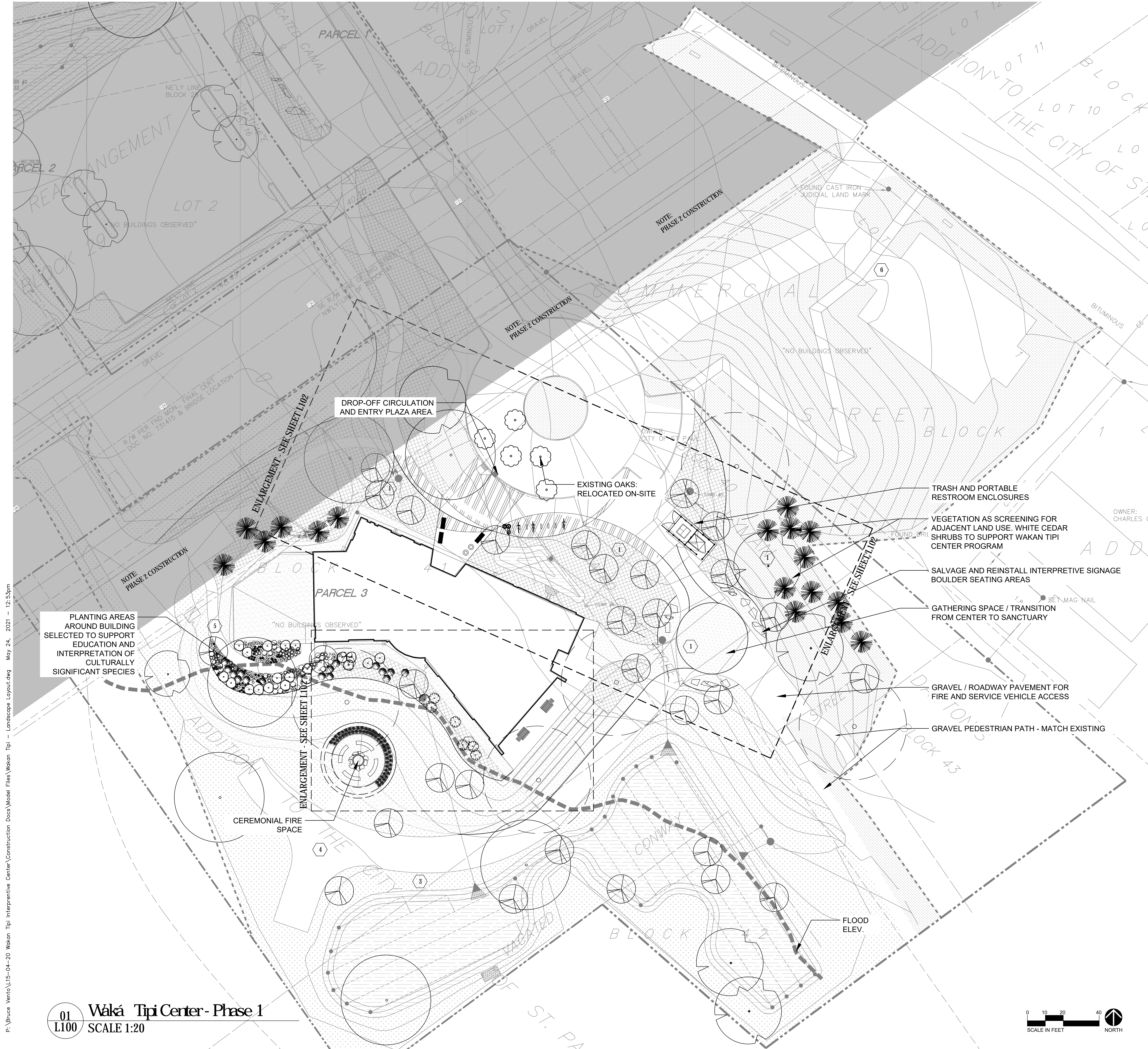
Sheet Number
C600

Current Revision

C600

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LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINES
- EXISTING TREE
- PROPOSED TREES OR LARGE SHRUBS
- RELOCATED EXISTING TREES
- SEED MIX - MnDOT 33-361 STORMWATER SOUTH AND WEST
- SEED MIX - MnDOT 35-221 DRY PRAIRIE GENERAL
- SEED MIX - MnDOT 35.241 MESIC PRAIRIE GENERAL
- NO MOW SEED MIX
- PLANT BEDS / SHREDDED HARDWOOD MULCH
- CONCRETE W/ COLOR / TEXTURE
- DECOMPOSED GRANITE

KEYNOTES

- PRIMARY EDUCATIONAL AND OUTDOOR CLASSROOM AREAS
- PLANT MATERIAL SELECTED TO ENHANCE BIRD HABITAT FOR VIEWING
- SEEDING AND RESTORATION WITHIN SITE LIMITS SUPPORTS VEGETATION COMMUNITIES:
 - FFS59 FLOODPLAIN FOREST SYSTEM
 - UPS23 SOUTHERN MESIC PRAIRIE
 - UPS24 SOUTHERN MESIC SAVANNA
- TEMPORARY FIRE TRUCK ACCESS PATH DURING BRIDGE CONSTRUCTION. AREA RESTORED TO FFS59 TARGET PLANT COMMUNITY WHEN COMPLETE
- EGRESS PATH FROM SWEAT LODGE INIPI
- TEMPORARY LOT AND SIDEWALK DURING BRIDGE CONSTRUCTION

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SAINT PAUL MINNESOTA
Parks and Recreation Department
400 City Hall Annex
25 West Street
Saint Paul, MN 55102

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Printed Name: XXXXXX
Signature: _____
Date: XXXXXX License #: XXXXXX

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Agency Approval

Name: _____
License No.: _____

Registration
Name: _____
License No.: _____

Revisions

No.	Date	Description
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Project Information

Phase:	Date:
	05/24/2021

Project No.: _____
PIC / AIC: _____

Waká Tipi Center

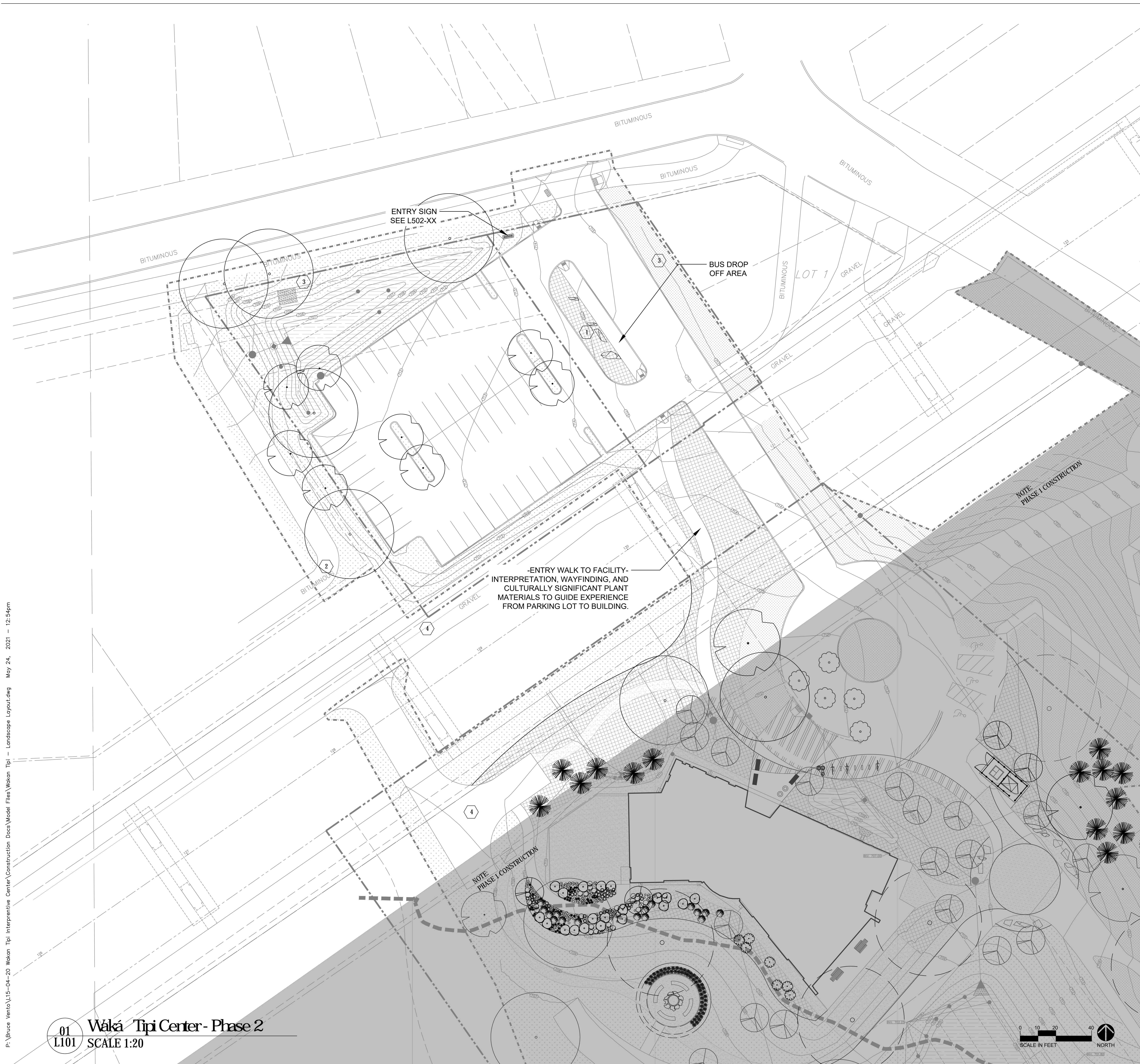
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90% Construction Set

Sheet Title
Landscape Site Plan A

Sheet Number
L100

Current Revision

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LEGEND

CONSTRUCTION LIMITS

PROPERTY LINES

EXISTING TREE

PROPOSED TREES OR LARGE SHRUBS

RELOCATED EXISTING TREES

SEED MIX - MnDOT 33-361
STORMWATER SOUTH AND WEST

SEED MIX - MnDOT 35-221 DRY
PRAIRIE GENERAL

SEED MIX - MnDOT 35-241
MESIC PRAIRIE GENERAL

NO MOW TURF SEED MIX

PLANT BEDS / SHREDDED
HARDWOOD MULCH

CONCRETE W/
COLOR / TEXTURE

DECOMPOSED GRANITE

KEYNOTES

1 BOULDER SEATING AREA ADJACENT
TO BUS DROP OFF

2 TRAIL CONNECTION TO BRUCE VENTO
REGIONAL TRAIL

3 SEEDING AND RESTORATION WITHIN SITE
LIMITS SUPPORTS VEGETATION
COMMUNITIES:

- FFS59 FLOODPLAIN FOREST SYSTEM
- UPS23 SOUTHERN MESIC PRAIRIE
- UPS24 SOUTHERN MESIC SAVANNA

4 FIRE TRUCK ACCESS PATH AND
TURNAROUND

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Parks and Recreation
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400 City Hall Annex
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Saint Paul, MN 55102

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direct supervision and that I am a
duly licensed Landscape Architect
under the laws of the State of
Minnesota.
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Signature: _____
Date: XXXXXX License #: XXXXXX

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CONSTRUCTION

Agency Approval

Signed: _____

Revisions

No.	Date	Description
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Project Information

Phase: _____ Date: 05/24/2021

Project No.: _____ PIC / AIC: _____

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Drawing Package

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Sheet Title

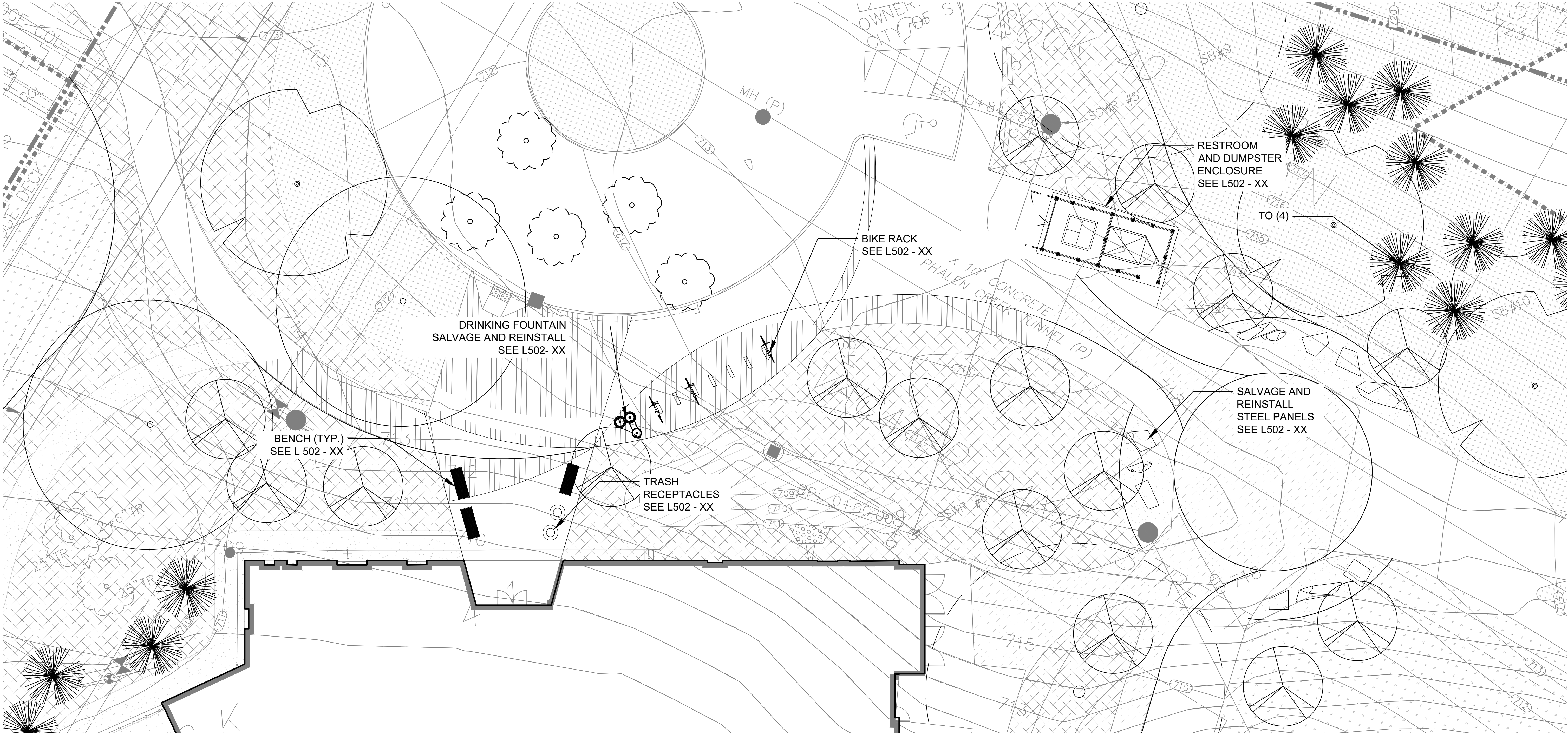
Landscape Site Plan B

Sheet Number

Current Revision

L101

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LEGEND

CONSTRUCTION LIMITS

PROPERTY LINES

EXISTING TREE

PROPOSED TREES OR LARGE SHRUBS

RELOCATED EXISTING TREES

SEED MIX - MnDOT 33-361
STORMWATER SOUTH AND WEST

SEED MIX - MnDOT 35-221 DRY
PRAIRIE GENERAL

SEED MIX - MnDOT 35.241
MESIC PRAIRIE GENERAL

NO MOW SEED MIX

PLANT BEDS / SHREDDED
HARDWOOD MULCH

CONCRETE W/
COLOR / TEXTURE

DECOMPOSED GRANITE

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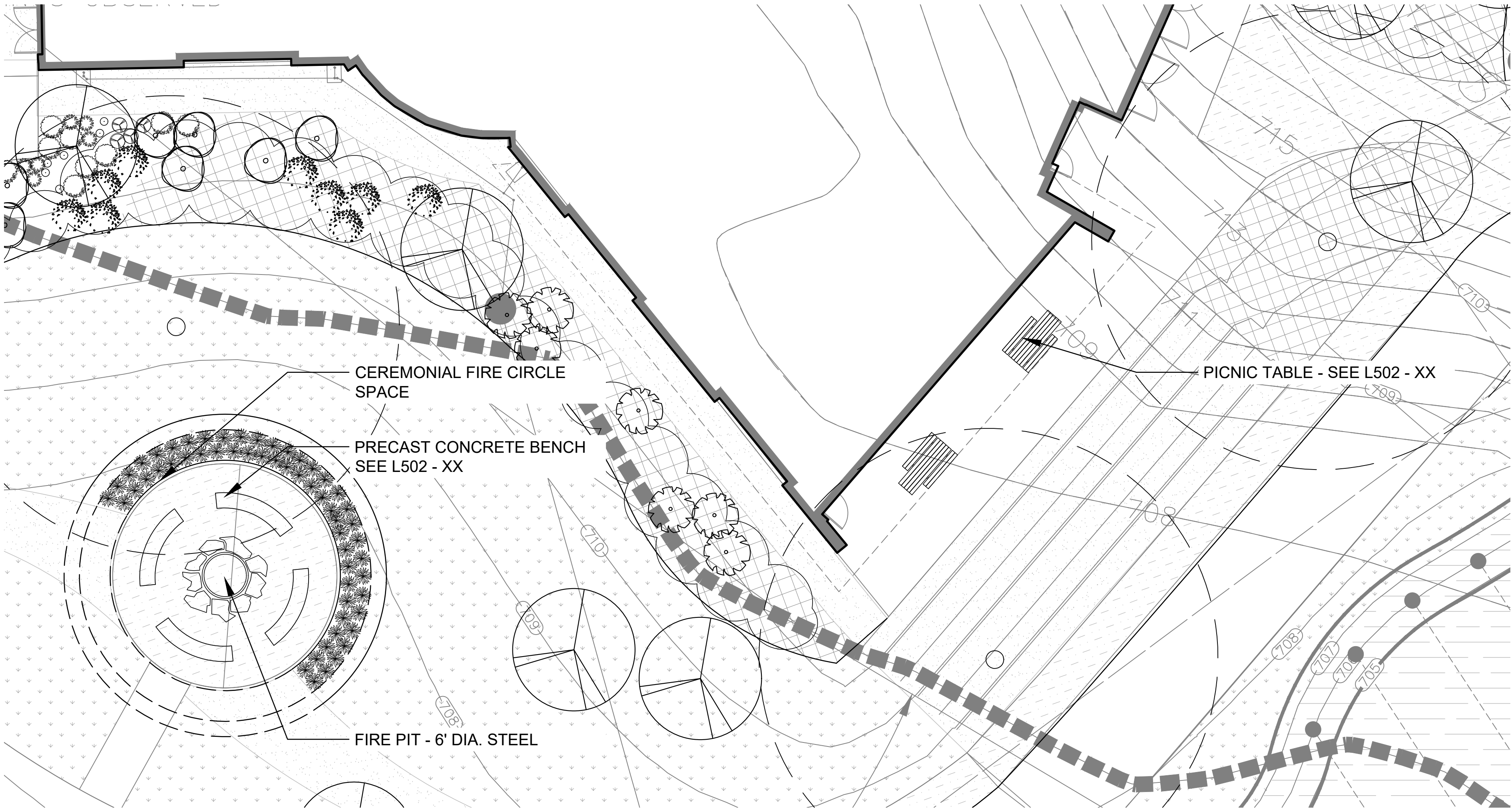
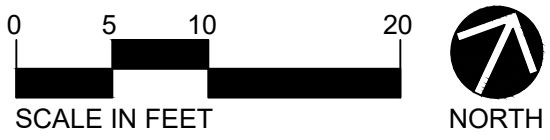
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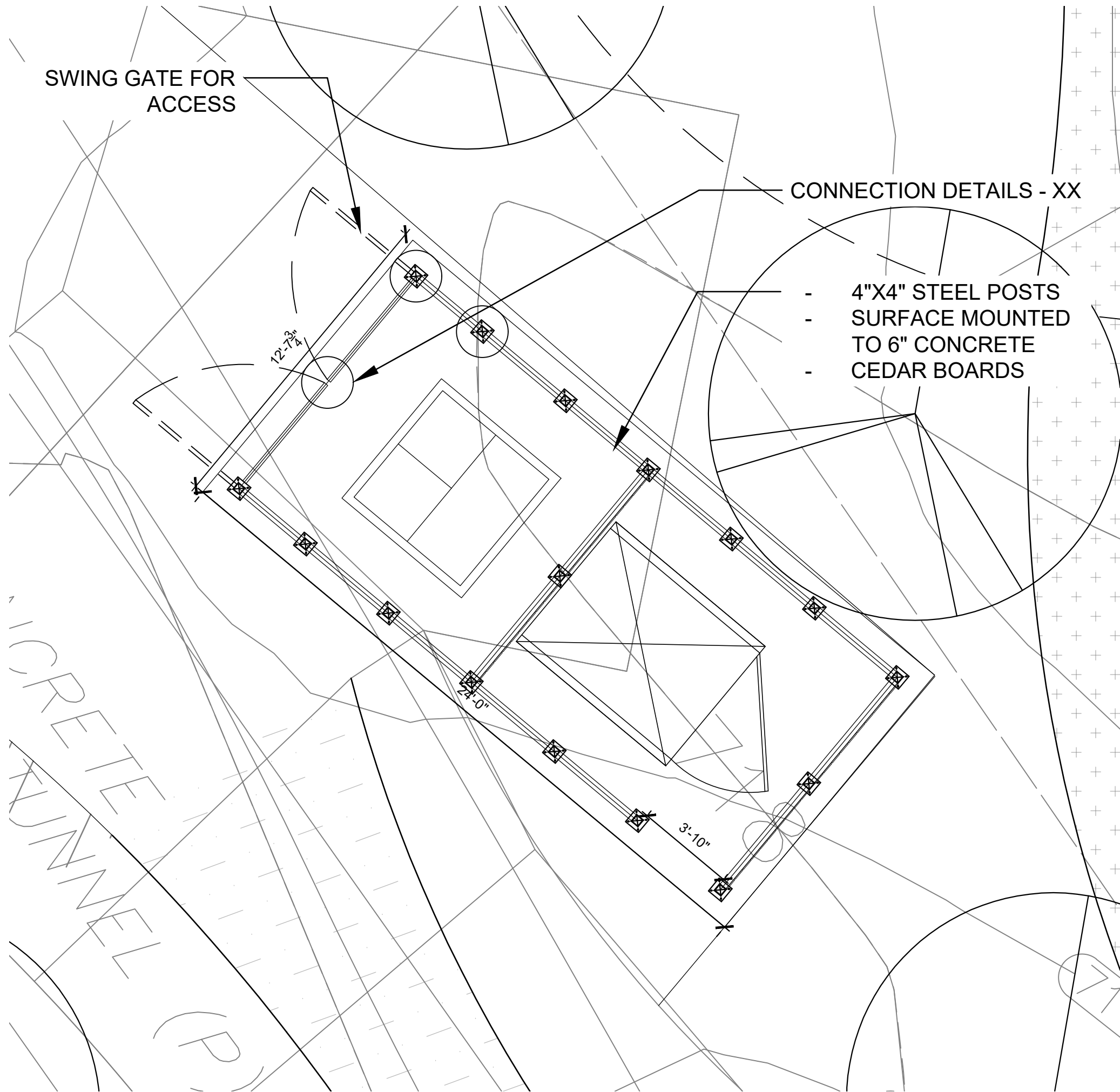
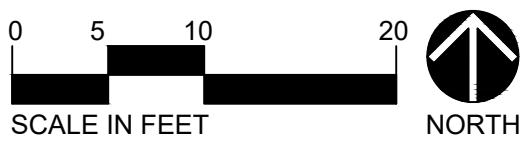
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01
L102
Waká Tipi Center- Plaza Enlargement
SCALE 1:10



02
L102
Waká Tipi Center- Rear of Building Enlargement
SCALE 1:10



03
L102
Enclosure Layout
SCALE 1:4



Enclosure Examples

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Revisions
No. Date Description

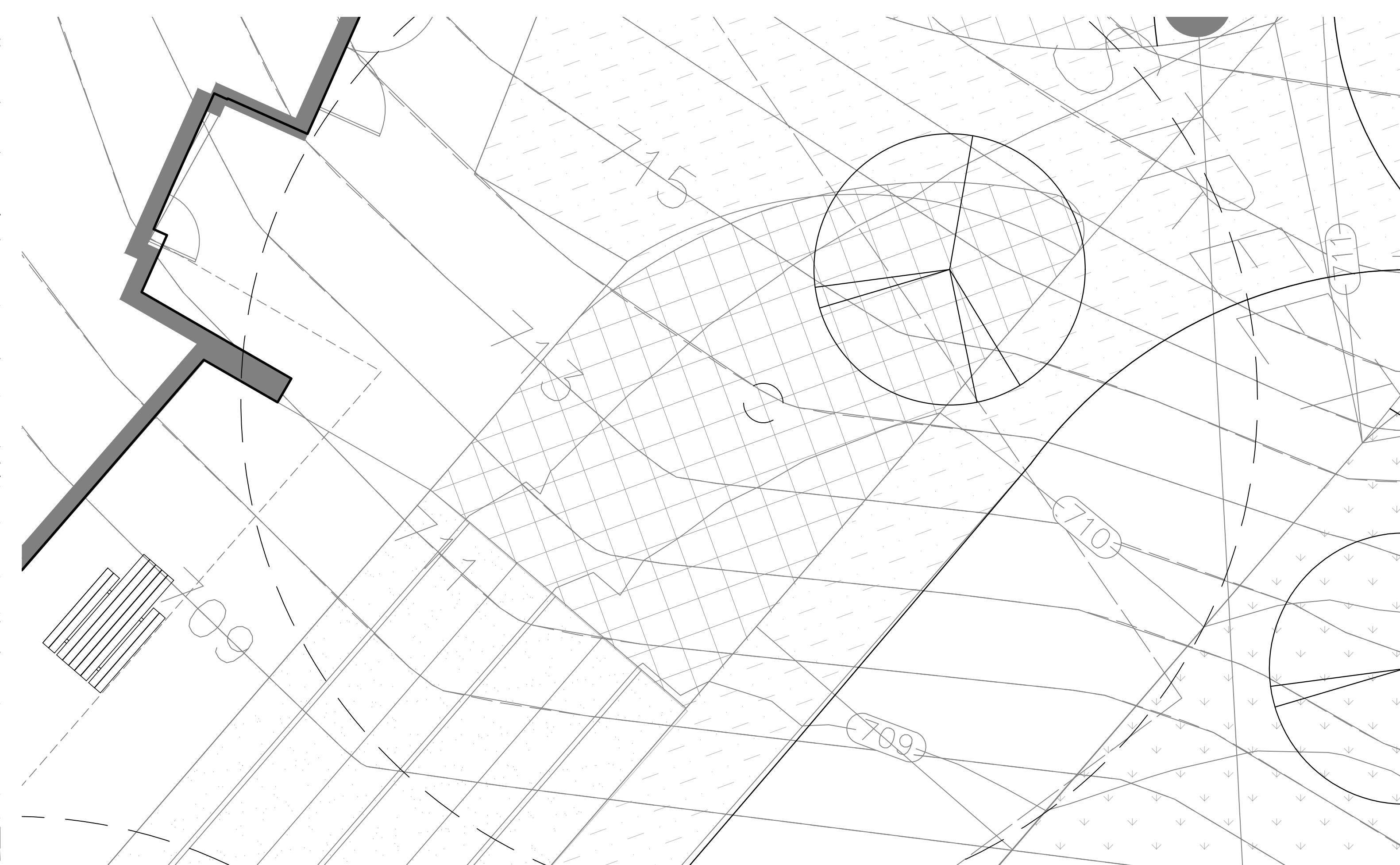
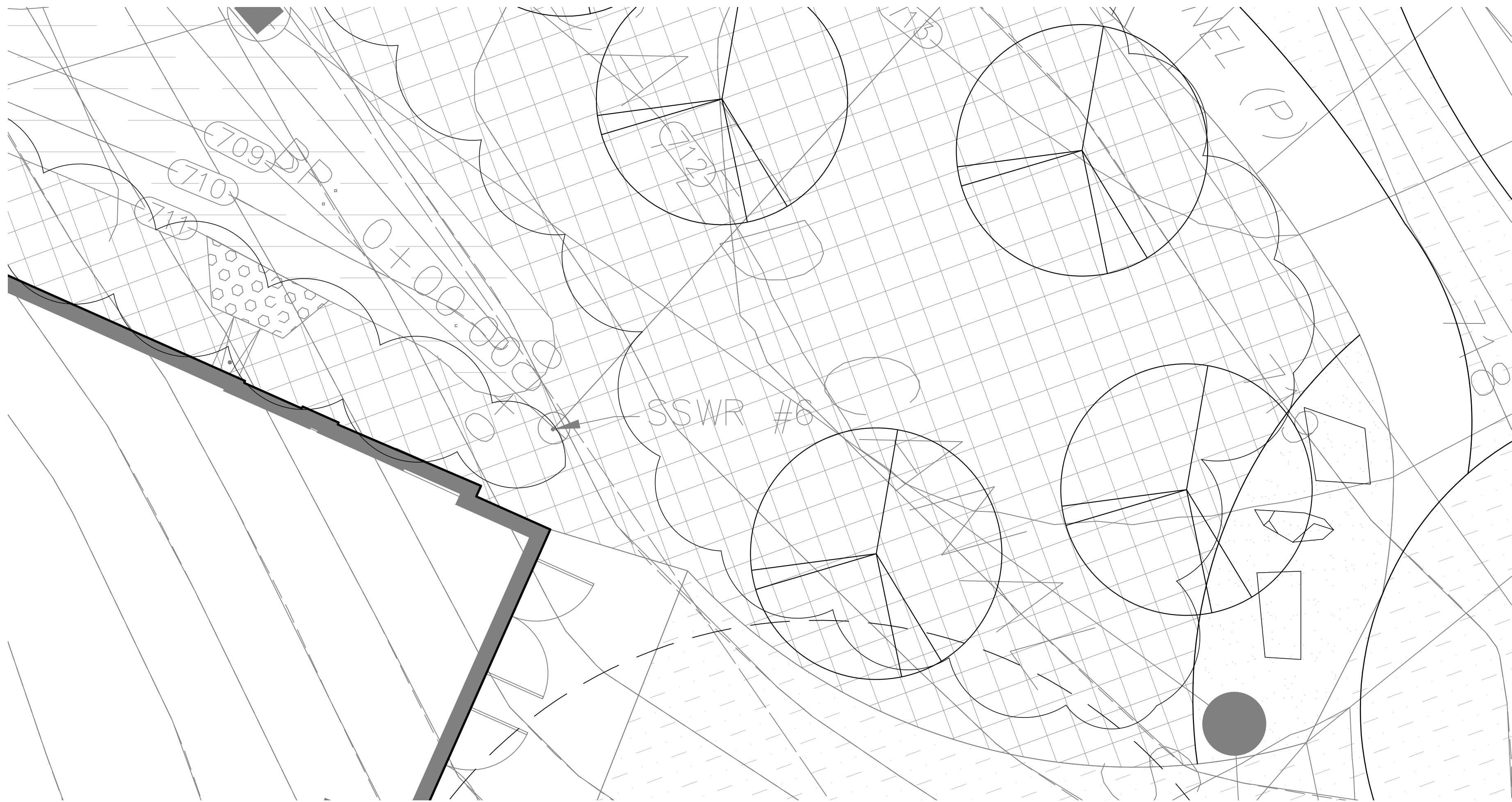
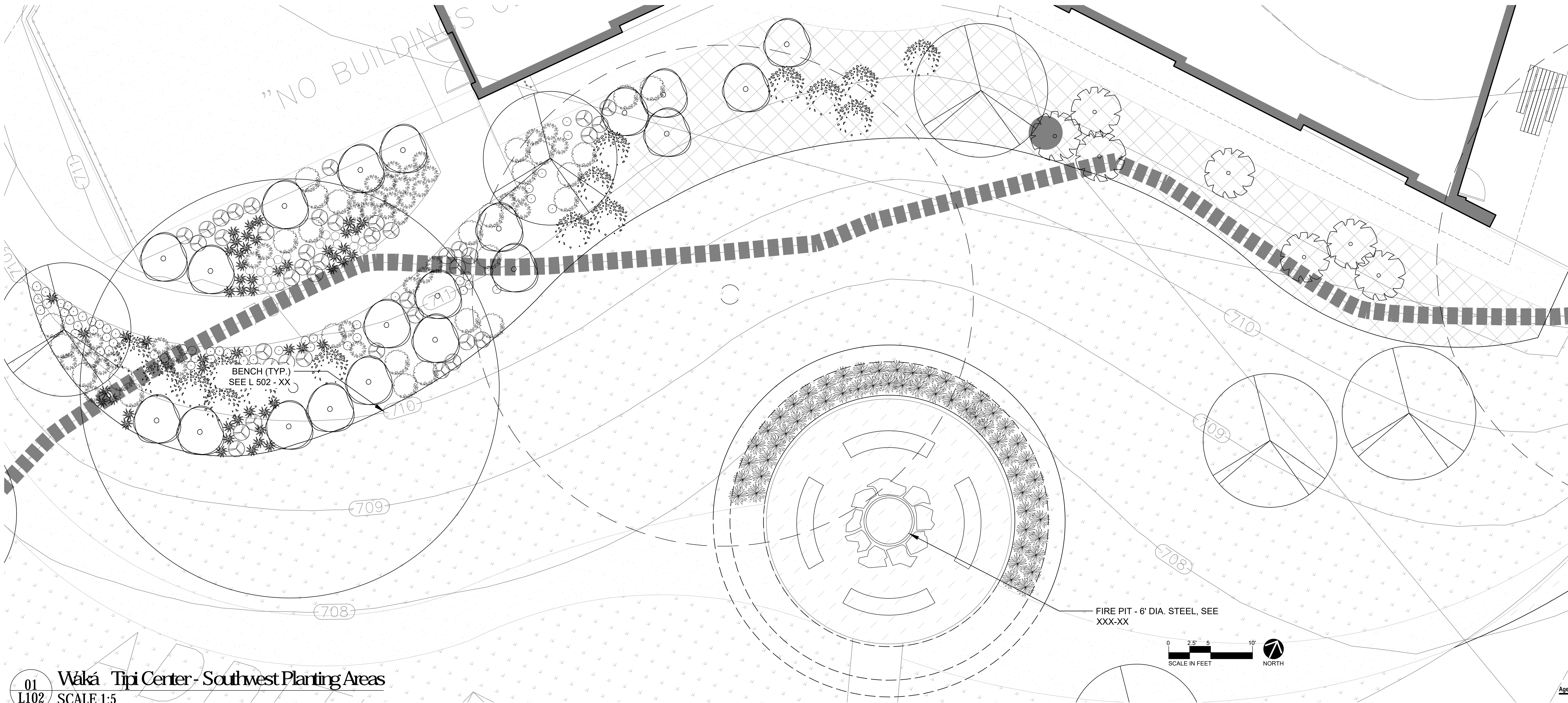
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Phase: _____ Date: 05/24/2021
Project No.: _____ PIC / AIC: _____
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Sheet Title
Landscape Site Plan - Enlargements

Sheet Number Current Revision

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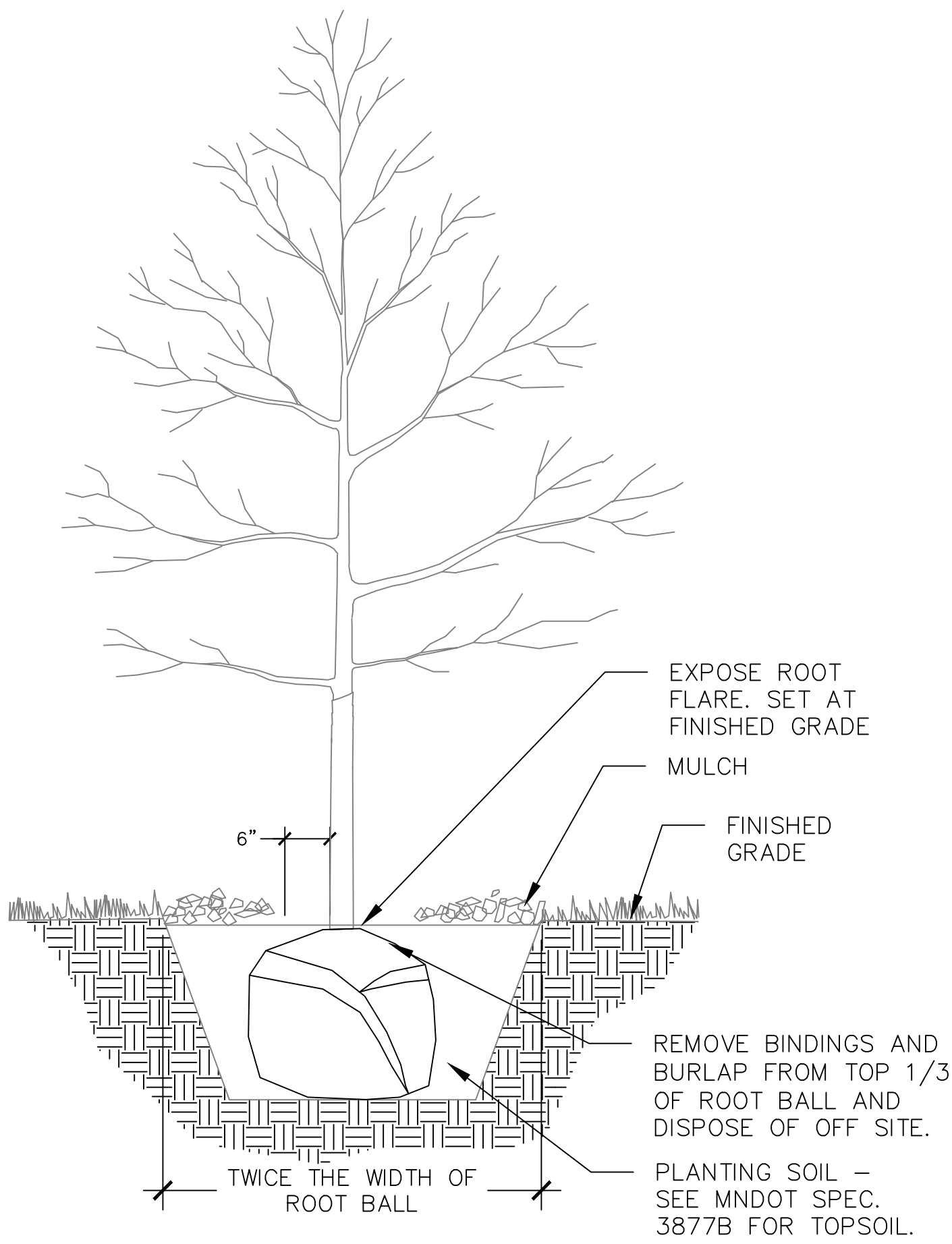
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No. Date Description

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Project No.: _____ PIC / AIC: _____
Wakán Tipi Center

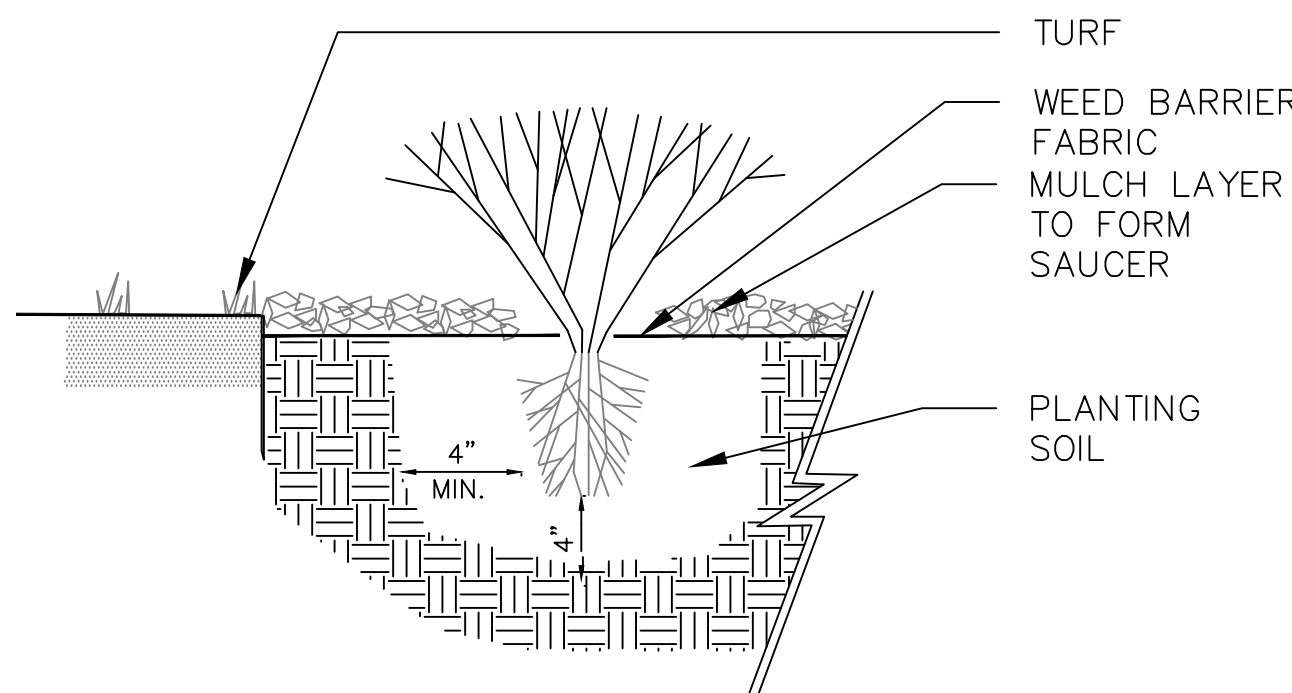
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Landscape Site Plan - Enlargements

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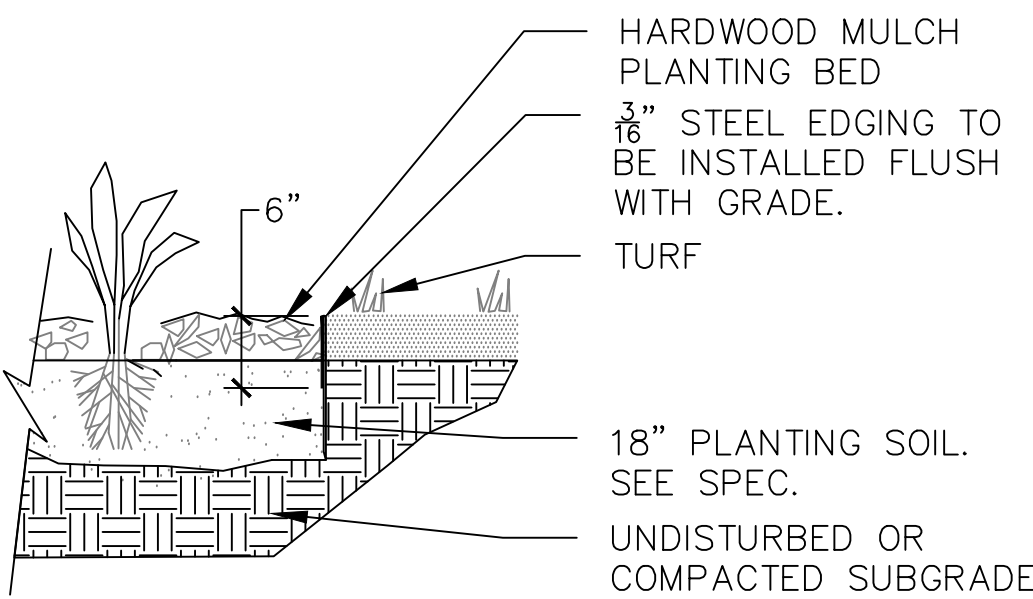
- NOTES:
1. WATER PLANT THOROUGHLY WITHIN 2 HOURS OF PLANTING
 2. PRUNE DEAD, DAMAGED, OR RUBBING BRANCHES AT THE TIME OF PLANTING. PRUNE THOSE THAT INTERFERE WITH THE SIDEWALK OR STREET AS SPECIFIED.
 3. DO NOT FORM UPHILL SAUCER ON 2:1 SLOPES OR GREATER.
 4. DEPTH OF HOLE TO MATCH DEPTH OF ROOT BALL.
 5. SCARIFY SIDES AND BOTTOM OF HOLE
 6. SET PLANT PLUMB ON UNDISTURBED SOIL OR WELL COMPACTED BACKFILL SOIL.
 7. PLACE 3" DEPTH SHREDDED HARDWOOD MULCH IN A CONTINUOUS LAYER. NO MULCH TO BE WITHIN 6" OF STEM.
 8. WHEN PLANTING IN GRATES, PAVERS, OR OTHER RESTRICTED AREAS - TREES TO BE CENTERED IN OPENING.

01 TREE PLANTING
L501 SCALE 3/4" = 1'



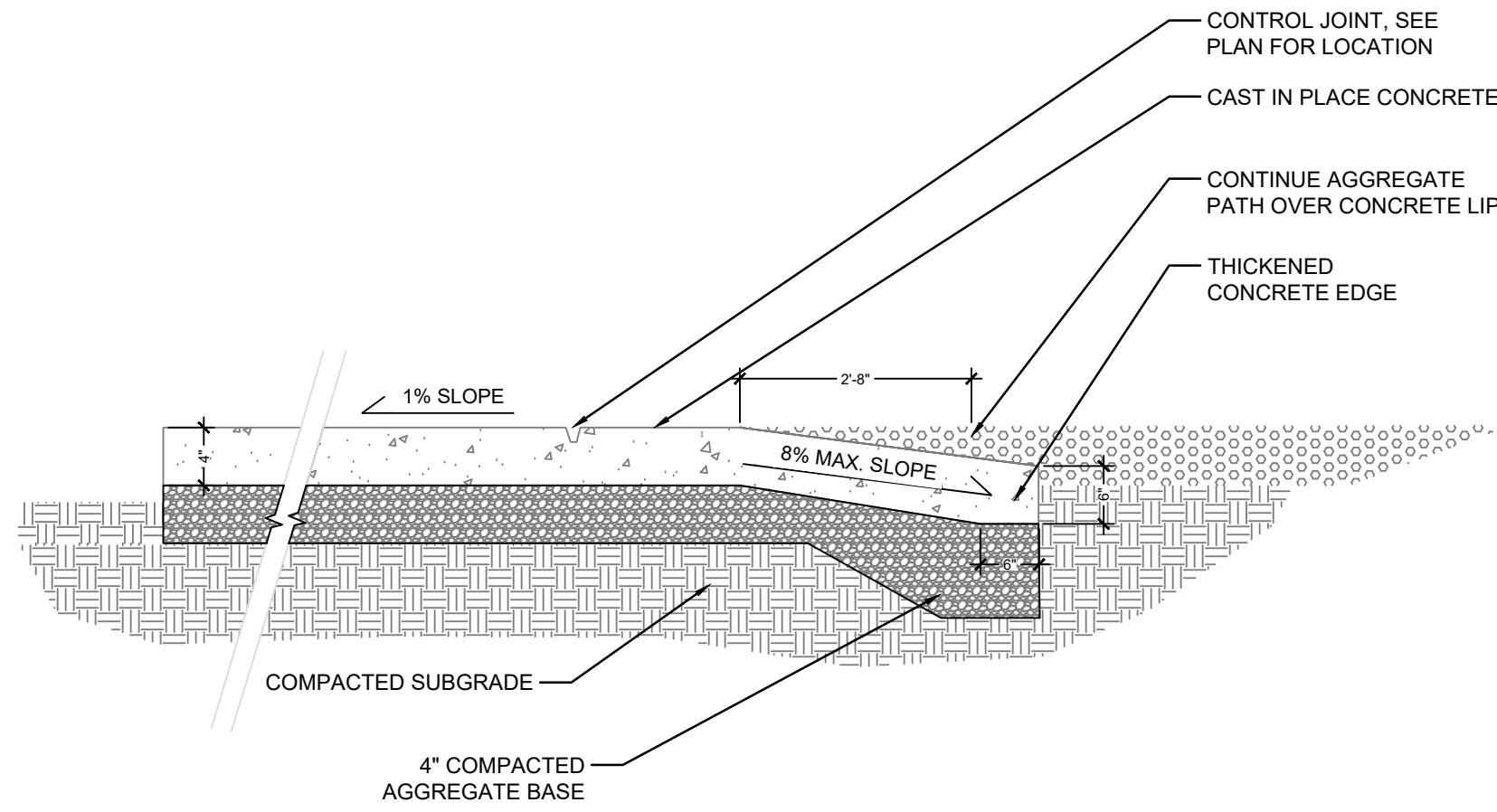
- NOTES:
1. WATER PLANT THOROUGHLY AT TIME OF PLANTING
 2. REMOVE ALL DISEASED, DEAD, AND BROKEN BRANCHES AT TIME OF PLANTING
 3. MULCH ALL PLANT GROUPINGS OR MASS PLANTINGS WITH A CONTINUOUS 3" DEEP LAYER OF MULCH
 4. SET PLANT ON UNDISTURBED NATIVE, OR SLIGHTLY TAMPED SOIL AT DEPTH IT WAS GROWN IN THE NURSERY. BURY ROOT FLARE WITHIN 2" OF SOIL.
 5. BACKFILL WITH PLANTING OR NATIVE SOIL.
 6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 7. IN CASE OF DISCREPANCIES, REFER TO SPECIFICATIONS.

02 SHRUB PLANTING
L501 SCALE 3/4" = 1'

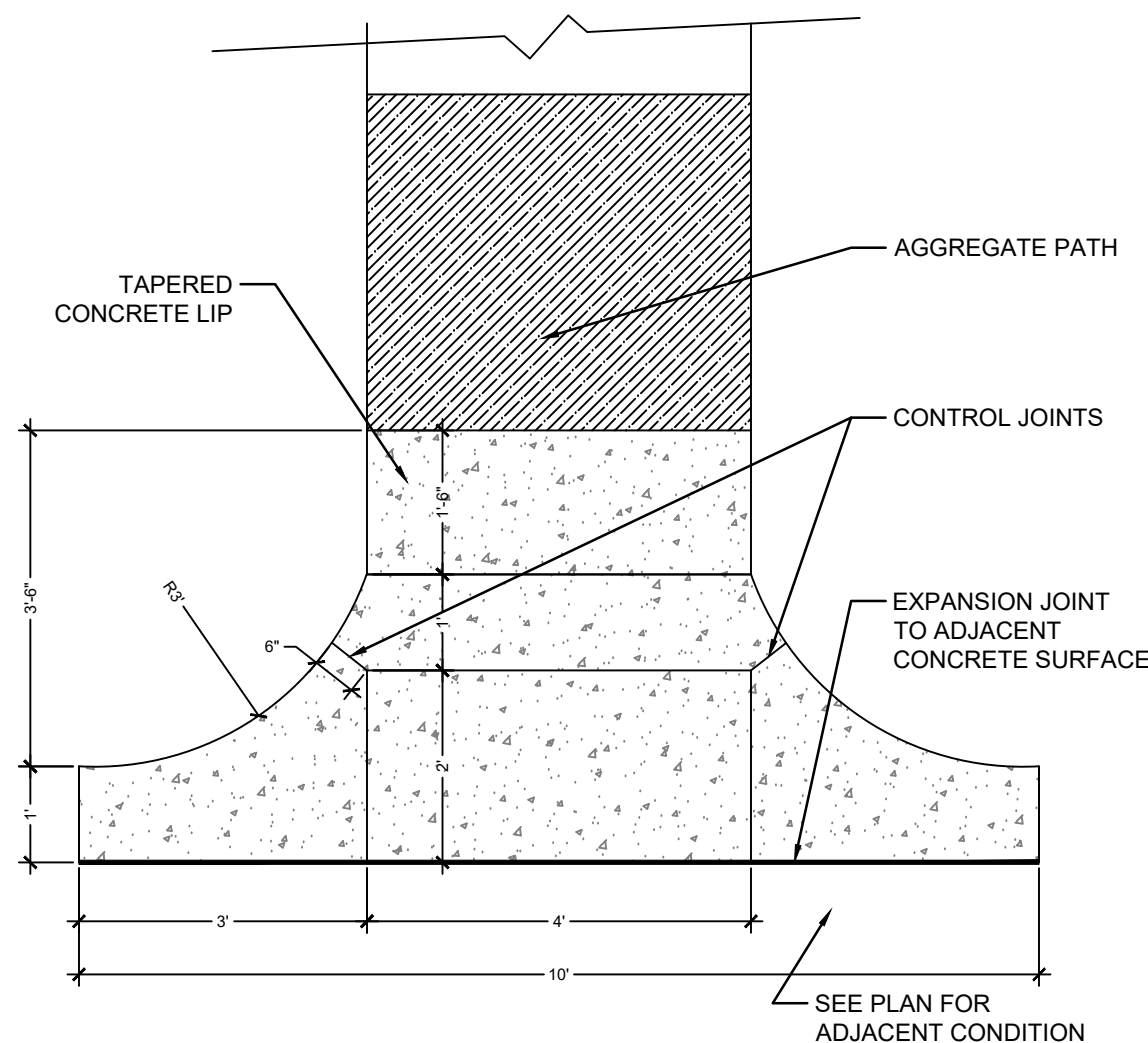


- NOTES:
1. PREPARE PLANTING BED PER SPECIFICATION.
 2. IF PLANTS ROOTS ARE SPIRALING AROUND CONTAINER. SCORE ROOT BALL PRIOR TO PLANTING.
 3. PLANT INTO FRESHLY CULTIVATED BED AT SAME DEPTH AS SHOWN IN CONTAINER. FIRM SOIL TO ENSURE GOOD CONTACT WITH ROOTS.
 4. PLACE 3" SHREDDED HARDWOOD MULCH OVER PLANTING BED.

03 PERENNIAL PLANTING
L501 SCALE 3/4" = 1'

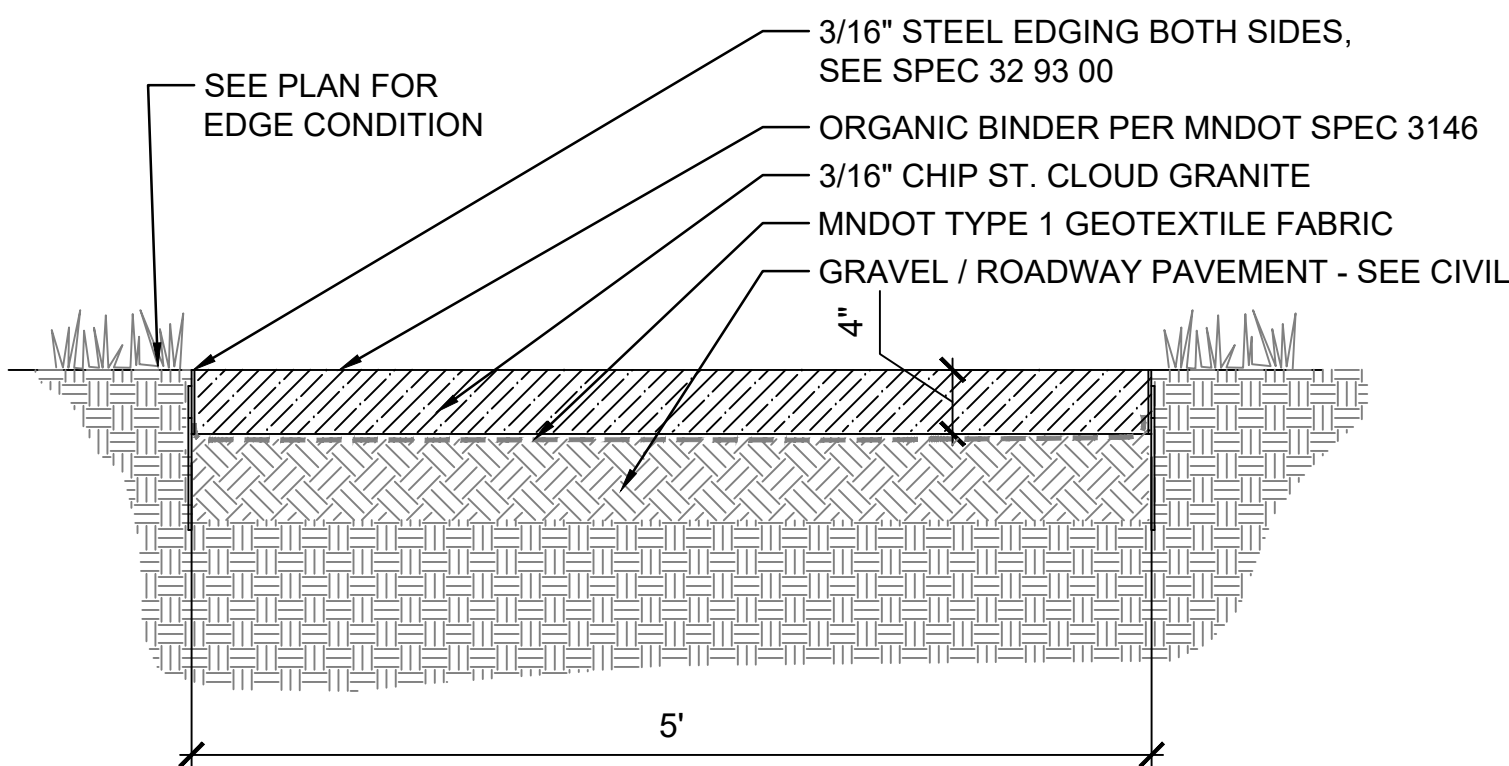


CONCRETE TO AGGREGATE - SECTION

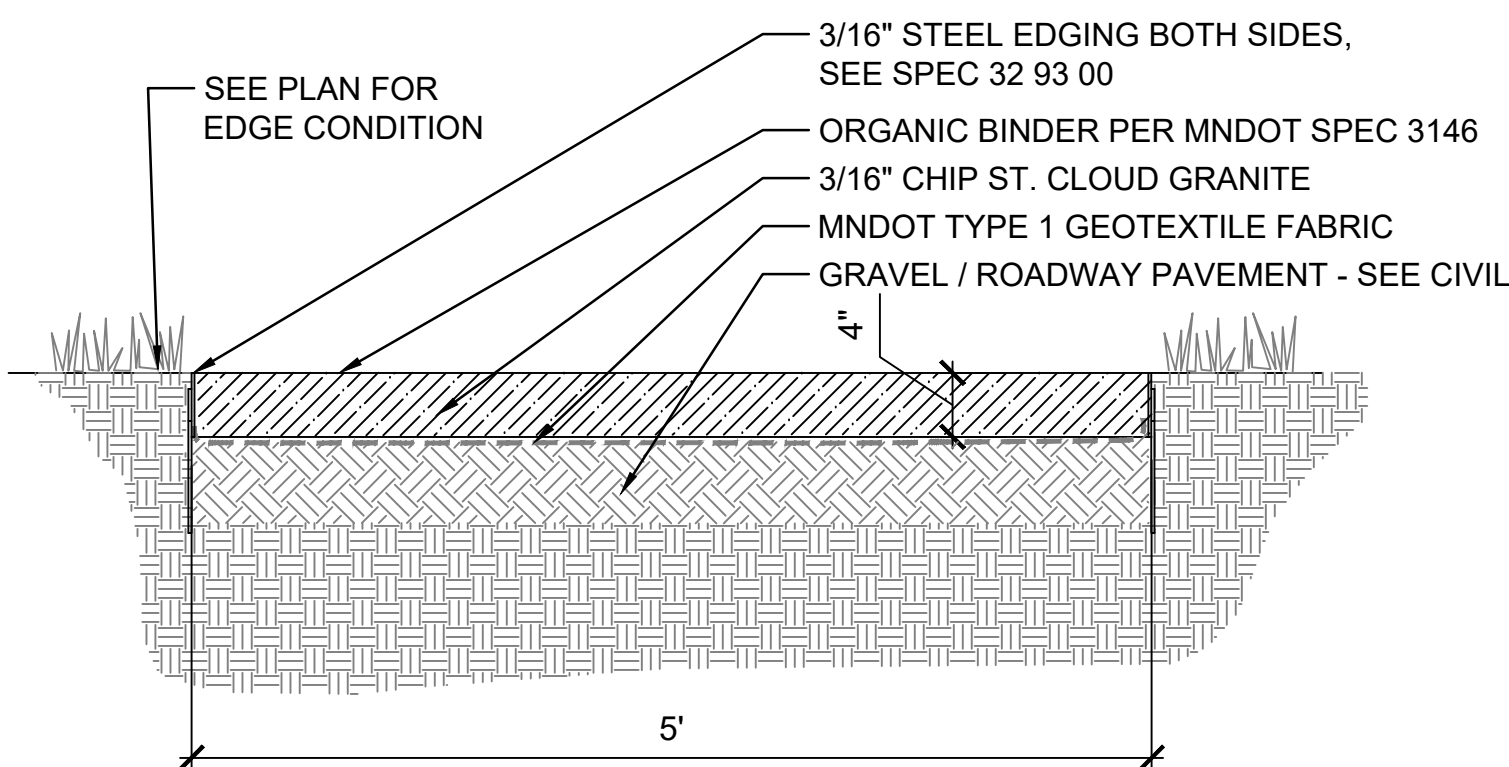


CONCRETE TO AGGREGATE - PLAN

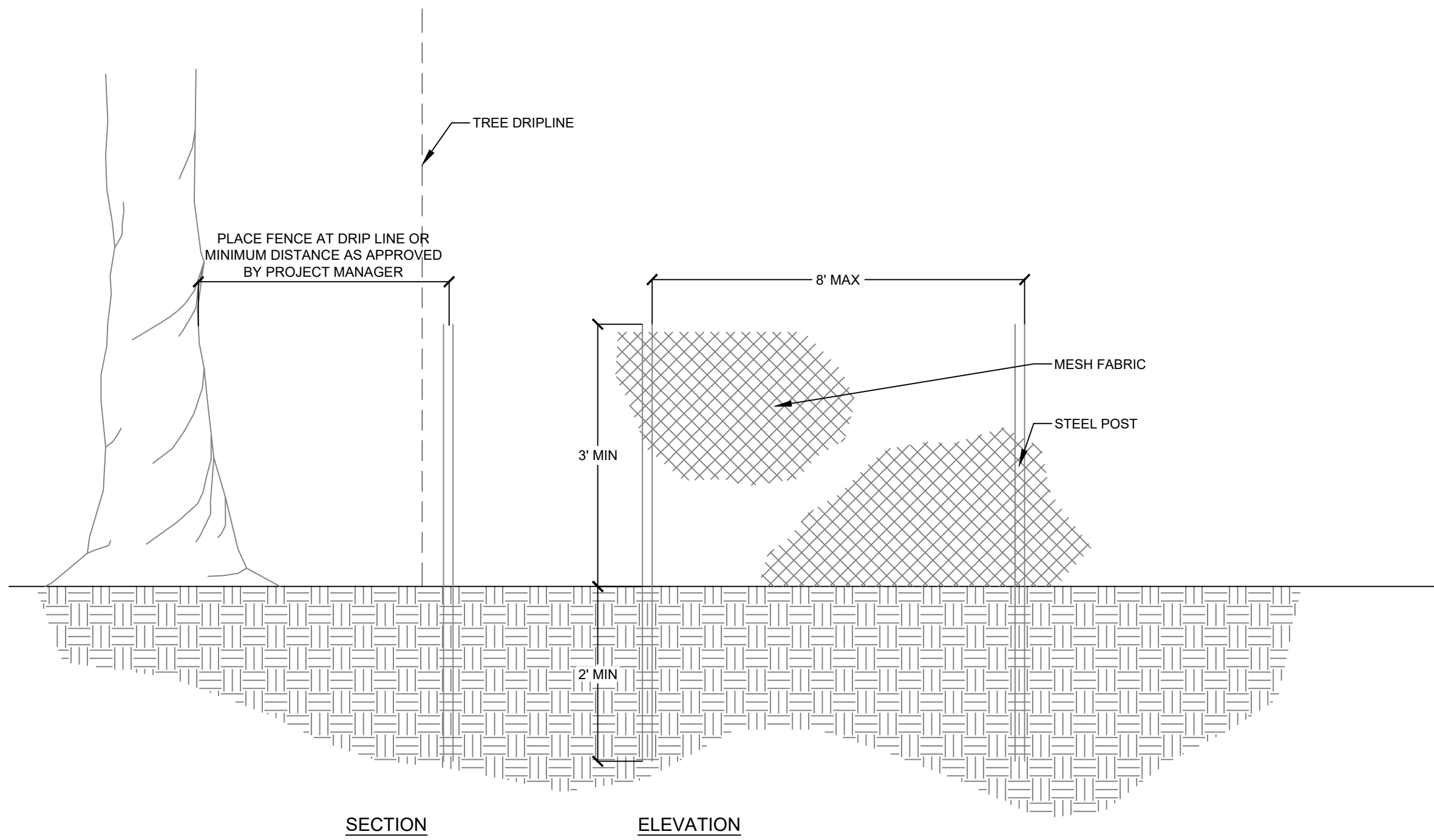
04 CONCRETE TO AGGREGATE
L501 SCALE NTS



05 AGGREGATE PAVING
L501 SCALE 1" = 1'



06 AGGREGATE PAVING: DECOMPOSED GRANITE
L501 SCALE 1" = 1'



07 TREE PROTECTION
L501 SCALE 3/4" = 1'

KEY	QTY	COMMON NAME	SCIENTIFIC NAME	SIZE	NOTES
Overstory Trees					
CO		Hackberry	Celtis occidentalis	1.5" CAL	B&B
GD		Kentucky Coffeetree	Gymnocladius dioicus	1.5" CAL	B&B, Espresso or True North
QE		Northern pin oak	Quercus ellipsoidalis	1.5" CAL	B&B, Majestic Skies var.
QM		Bur Oak	Quercus macrocarpa	1.5" CAL	B&B
AS		Sugar Maple	Acer saccharum	1.5" CAL	B&B, Green Mountain or Fall Fiesta var.
SN		Willow (black)	Salix nigra	1.5" CAL	B&B
UA		American Elm	Ulmus americana	1.5" CAL	B&B, New Harmony, Accolade, New Horizon, or Triumph

TO		Northern White Cedar	Thuja Occidenalis	CONT	#15 or larger if available
Deciduous Shrubs					
CA		Hazelnut	Corylus americana	CONT	
CP		Dogwood	Cornus 'Prairie Fire'	CONT	
HV		Witch hazel	Hamamelis virginiana	CONT	
RG		Smooth Sumac	Rhus glabra	CONT	
VL		Viburnum / Arrowwood	Viburnum lentago	CONT	
AM		Chokecherry	Aronia melanocarpa	CONT	
RO		Gooseberry	Ribes oxycanthoides	CONT	
Ri		Raspberry	Rubus idaeus	CONT	
AC		Leadplant	Amorpha canescens	CONT	
RA		Prairie rose	Rosa arkansana	CONT	
AL		Juneberry	Amelanchier laevis	CONT	Lustre or 'Autumn Brilliance' var.
CR		Gray dogwood	Cornus racemosa	CONT	
SO		Wolfberry	Symphoricarpos occidentalis	CONT	
Forbs / Perennials					
ALV		White Sage	Artemisia ludoviciana	POT	
MF		Wild Bergamot	Monarda fistulosa	POT	
AT		Butterfly Milkweed	Asclepias tuberosa	POT	
SL		Smooth Aster	Symphyotrichum laeve	POT	
PP		Prairie Phlox	Phlox pilosa	POT	
GC		Goldenrod	Solidago canadensis	POT	
LL		Blazingstar	Liatris ligulistylis	POT	
CPM		Coreopsis	Coreopsis palmata	POT	
DP		Purple Prairie Clover	Dalea purpurea	POT	
DC		White Prairie Clover	Dalea candida	POT	
EP		Coneflower	Echinacea purpurea	POT	
FV		Wild Strawberry	Fragaria virginiana	POT	
PE		Prairie Turnip	Pedimelum esculentum	POT	
GB		Northern Bedstraw	Galium boreale	POT	
TD		Tall Meadow Rue	Thalictrum dasycarpum	POT	
SS		Silverleaf Scurfpea	Pedimelum argophyllum	POT	
HM		Maximilian'S Sunflower	Helianthus maximiliani	POT	
EY		Rattlesnake Master	Eryngium yuccifolium	POT	

Grasses / Vines					
AH		Sweetgrass	Anthoxanthum hirtum	POT	
AG		Big Bluestem	Andropogon gerardii	POT	
LBS		Little Bluestem	Schizachyrium scoparium	POT	
SNT		Indian Grass	Sorghastrum nutans	POT	
SH		Prairie Dropseed	Sporobolus heterolepis	POT	
BC		Side-Oats Grama	Bouteloua curtipendula	POT	
SP		Prairie Cordgrass	Spartina pectinata	POT	
PQ		Virginia Creeper	Parthenocissus quinquefolia	POT	
Seeds / Groundcover					
BL		Bee Lawn Seed Mix		SEED	
FF		FF559 Floodplain Forest		SEED	
MP		UPS23 Southern Mesic Prairie		SEED	
MS		UPS24 Southern Mesic Savannah		SEED	

08 PLANT SCHEDULE
L501

Floor Plan Notes

- PROVIDE AND INSTALL WOOD BLOCKING FOR ALL CASEWORK, COUNTERS, FIXTURES, AND SPECIAL EQUIPMENT UNLESS OTHERWISE NOTED. VERIFY MOUNTING HEIGHTS OF BACKING PLATES FOR EQUIPMENT WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO COMMENCING WORK.
- ALL PARTITIONS TO BE TYPE 'A3A' UNLESS OTHERWISE NOTED.
- ALL CASEWORK SHALL BE CUSTOM GRADE OR BETTER AS DEFINED BY THE ARCHITECTURAL WOOD WORKING INSTITUTE.
- ALL CONSTRUCTION SHALL CONFORM TO ADA ACCESSIBILITY REQUIREMENTS. DIMENSIONS INDICATED ARE REQUIRED CLEAR DIMENSIONS WITH NO ALLOWANCE FOR CONSTRUCTION TOLERANCES. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS AFFECTING SPECIFIED DIMENSIONS PRIOR TO COMMENCING WITH THE WORK.
- CONTRACTOR SHALL VERIFY LAYOUT OF CONSTRUCTION WITH ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO WALL LOCATIONS AND CEILINGS.
- REFER TO FINISH PLANS FOR FINISH PLACEMENT AND SPECIFICATION.
- CONTRACTOR SHALL FURNISH FIRE EXTINGUISHER CABINETS AS SHOWN ON PLANS AND AS FURTHER DIRECTED BY THE FIRE INSPECTOR IN THE FIELD. MAXIMUM TRAVEL DISTANCE TO CABINETS SHALL BE 75'-0".
- AT CLOSET TO RECEIVE SHELF AND COAT ROD, INCLUDE A PORTION OF THE WIDTH OF ROD AND SHELF AT ADA HEIGHT.
- PROVIDE BACKING BEHIND ALL DOORS FOR WALL MOUNTED DOOR STOP.

Floor Plan Legend

- NEW PARTITION NON RATED
- AREA OUTSIDE SCOPE OF WORK (NIC)

Sheet Notes

- ALL DIMENSIONS INDICATED ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
- NOTED DIMENSIONS:
CLEAR OR CLR - INDICATED CLEAR DIMENSIONS BETWEEN FINISHED WALLS THAT MUST BE MAINTAINED.

Architectural Key Notes "A"

Mark	Remark
A01	3/4" BACKER BOARD ON 2X WOOD FURRING OVER ENTIRE STORAGE WALL, FROM 1' TO 9' AFF.
A02	WOOD BACKER BOARD 4' X 8'
A03	STAINLESS STEEL JANITORS SHELF AND MOP RACK
A04	COAT ROD AND PLAM SHELF
A80	PLYWOOD BACKER FOR DISPLAY MONITOR MOUNTING

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Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / AIC:	S Obeleson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

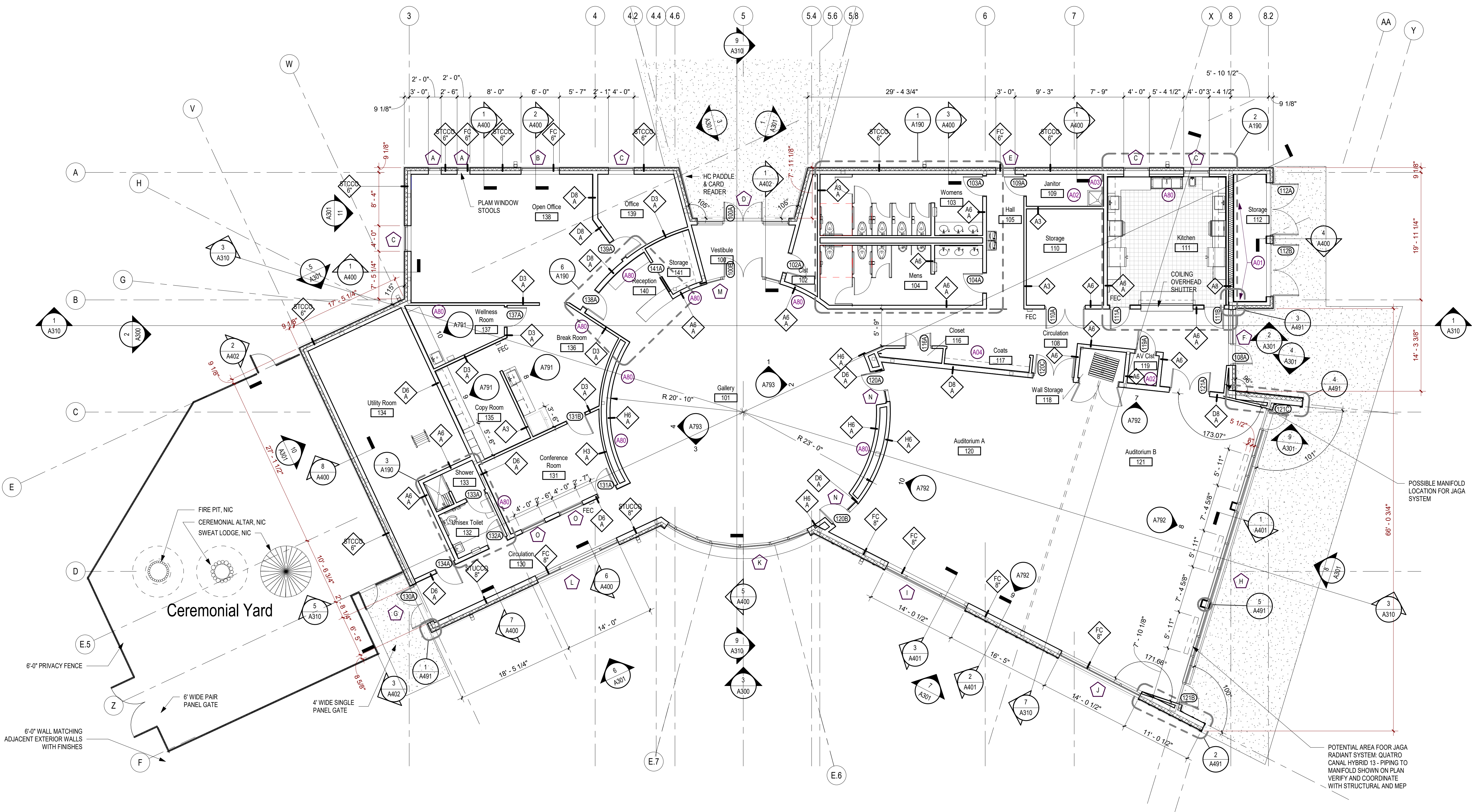
Floor Plan

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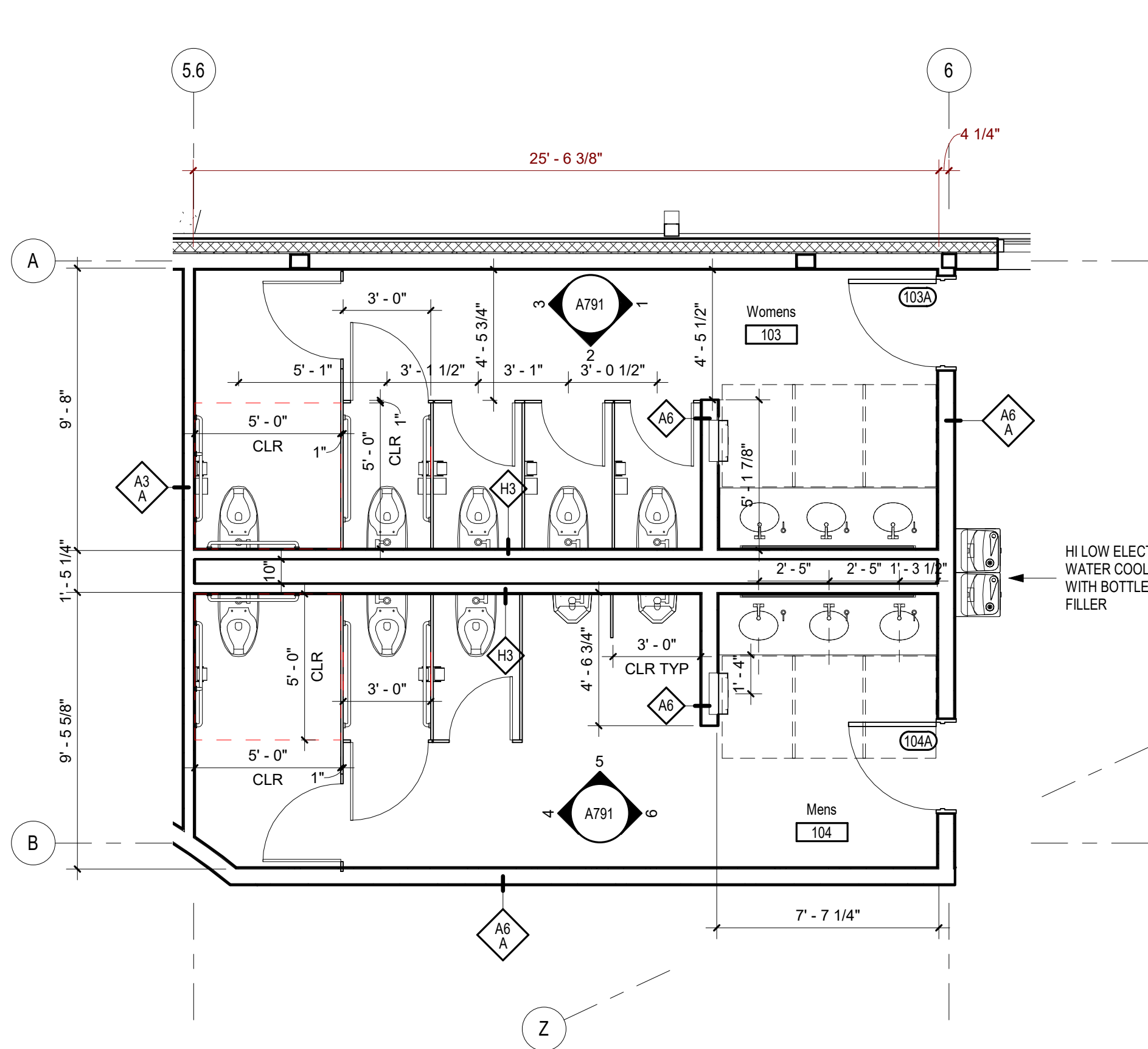
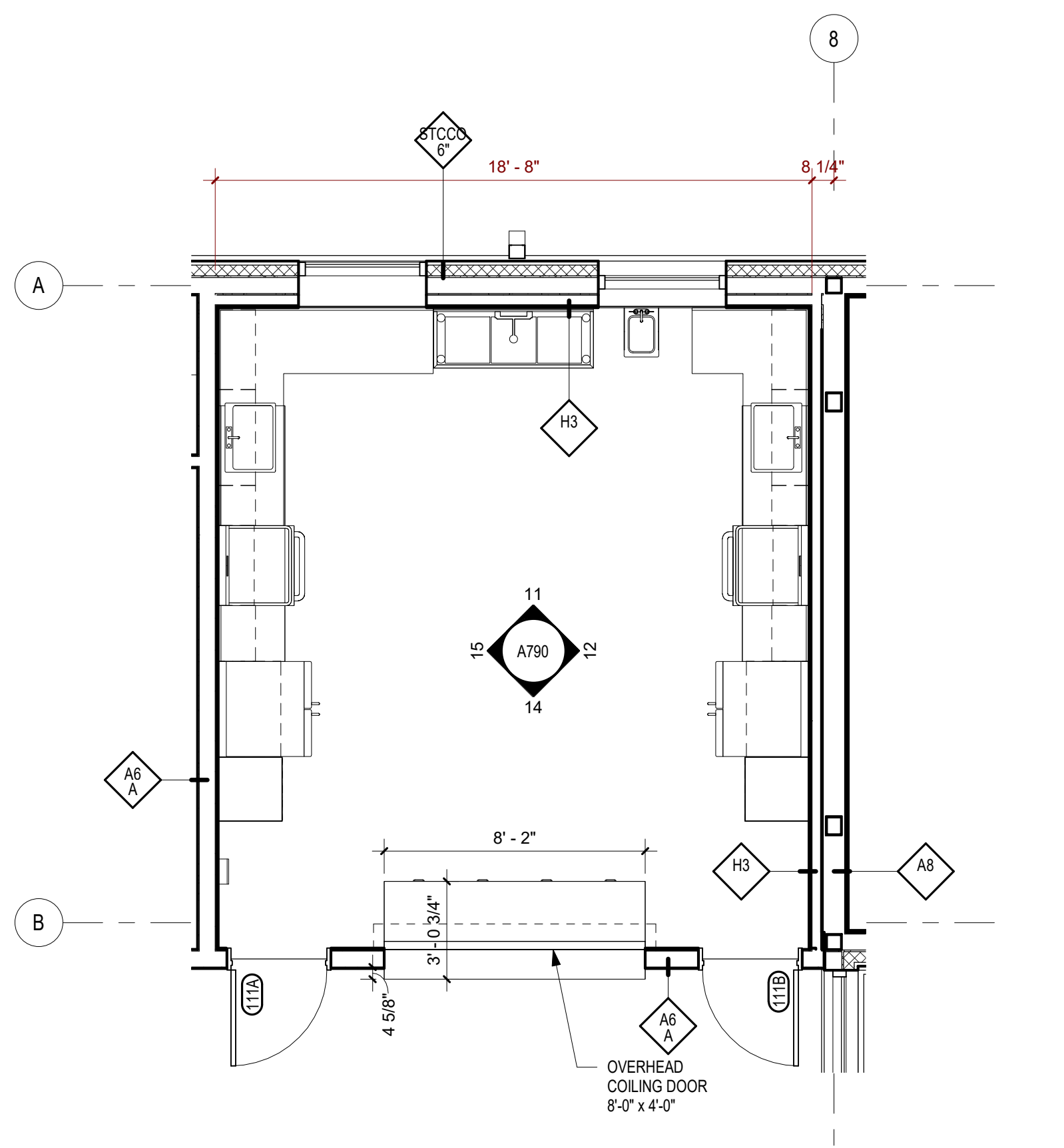
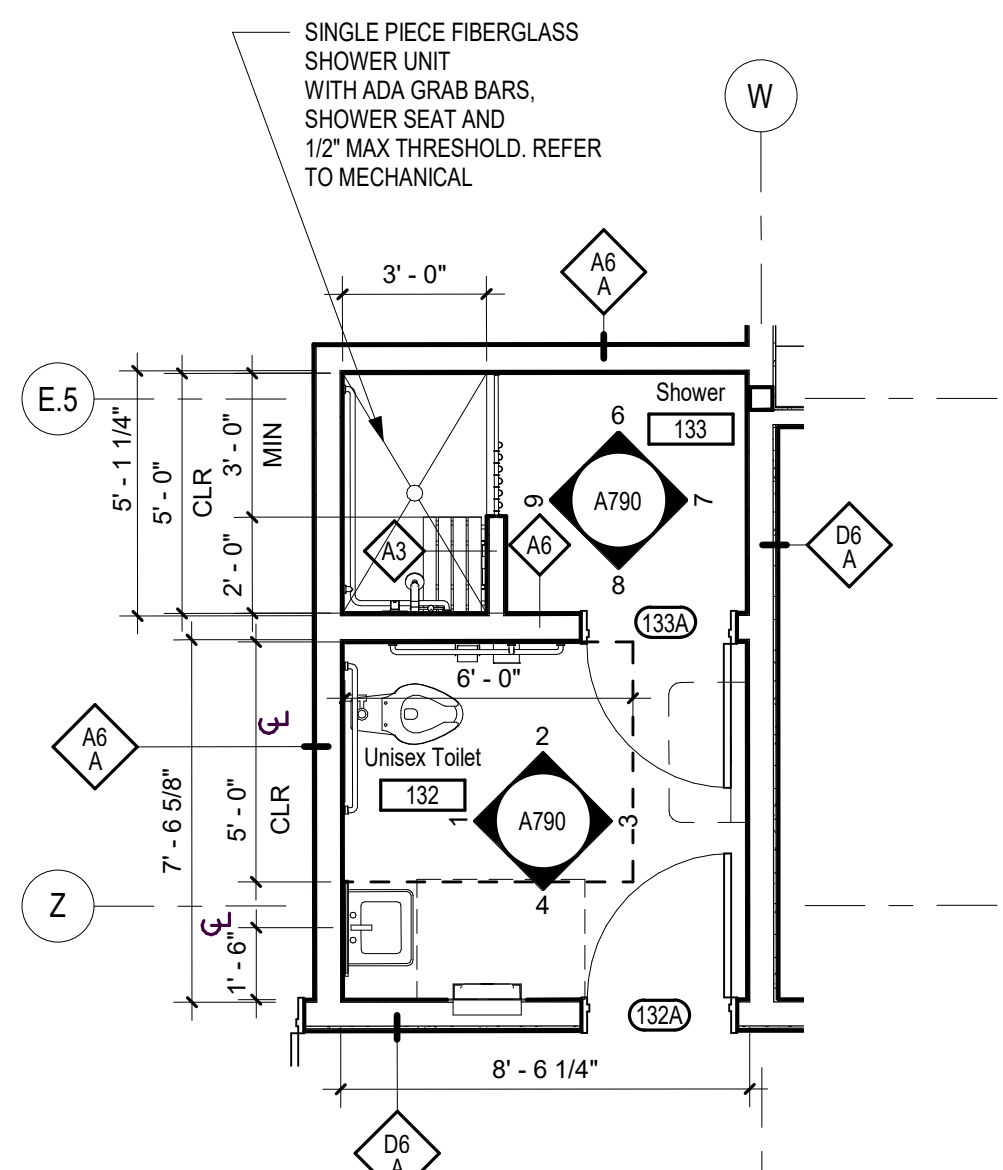
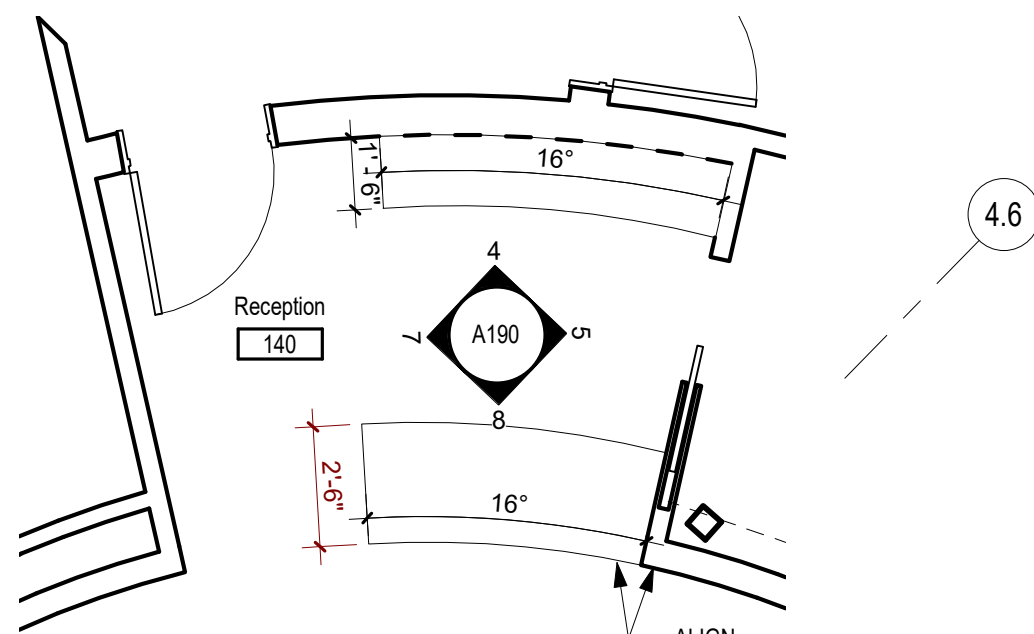
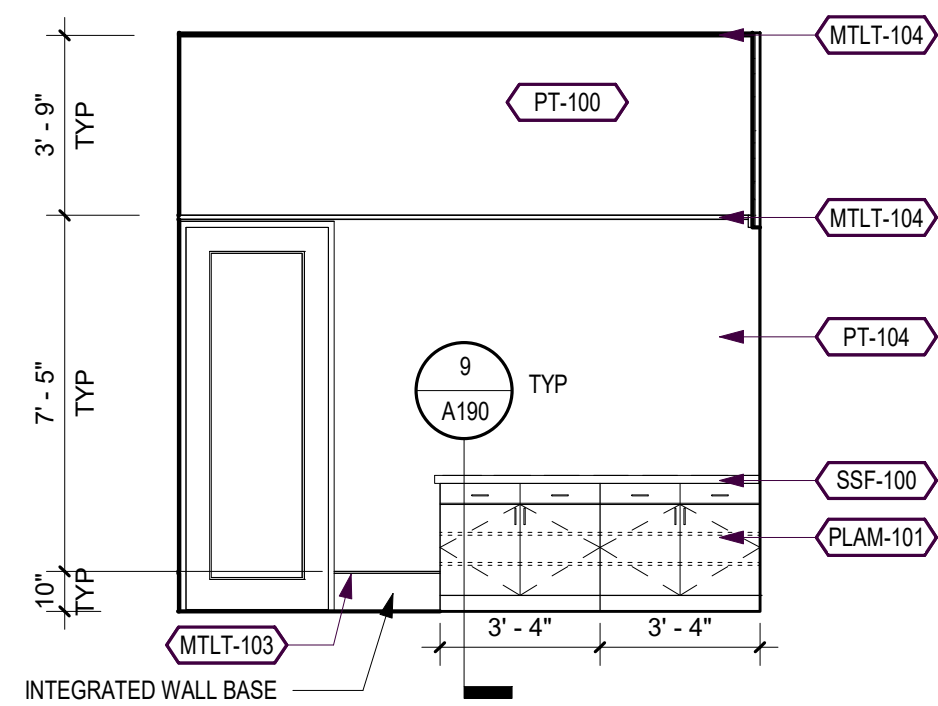
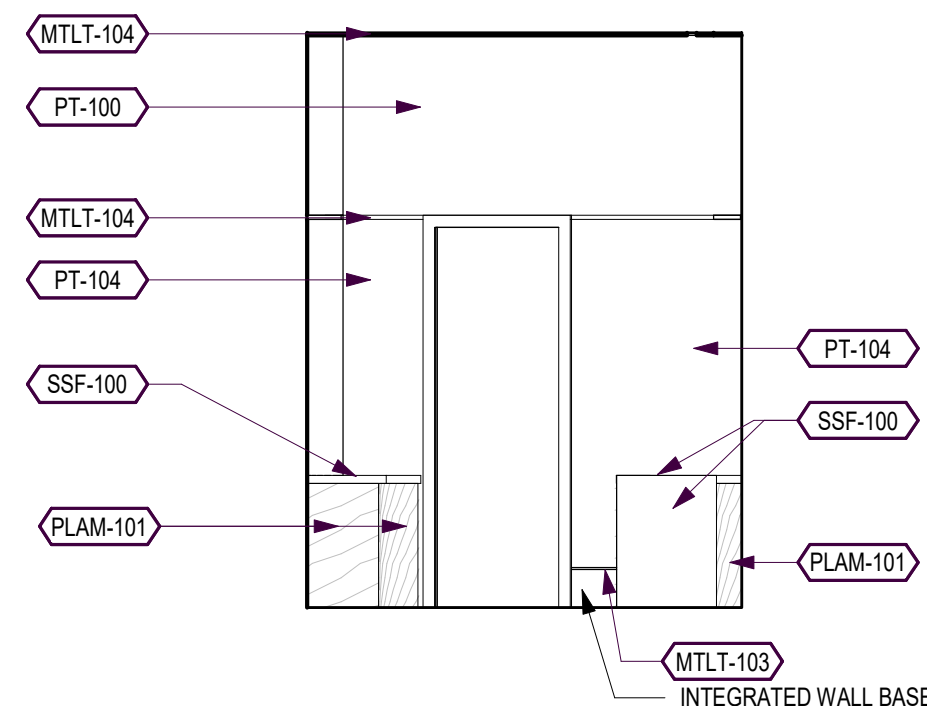
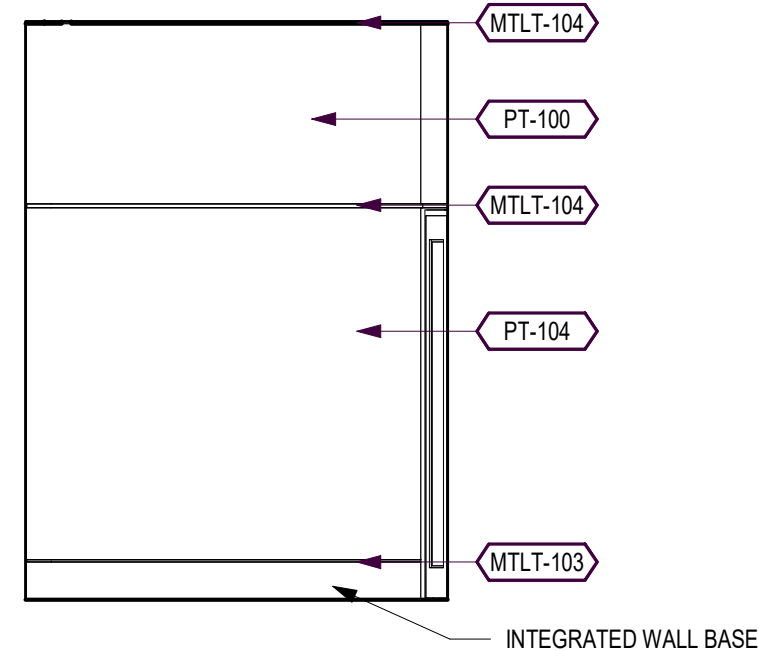
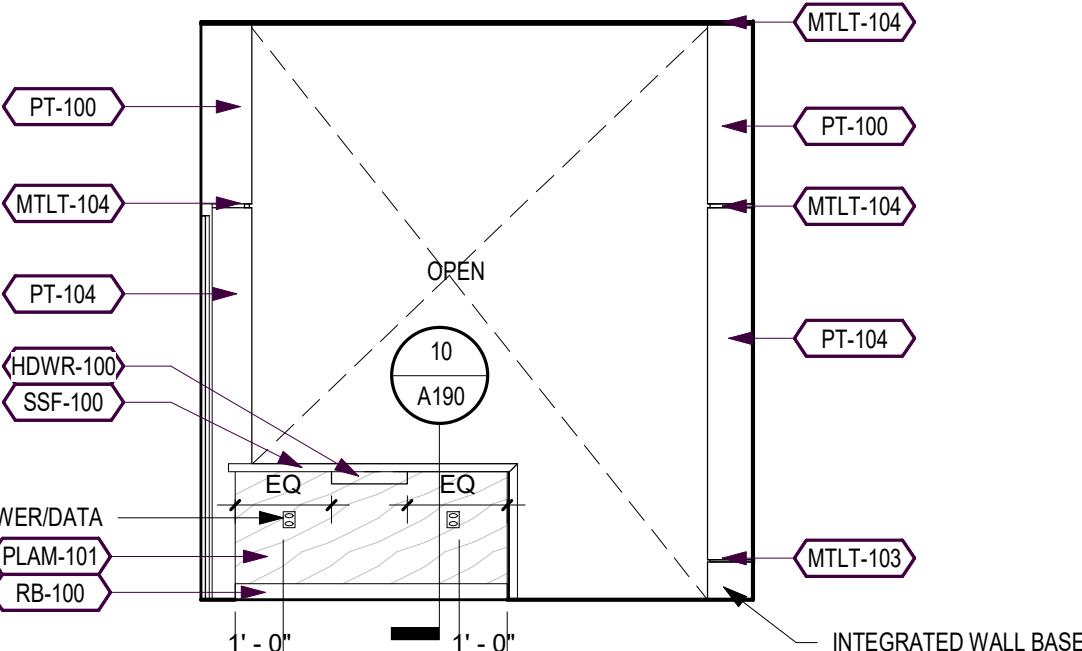
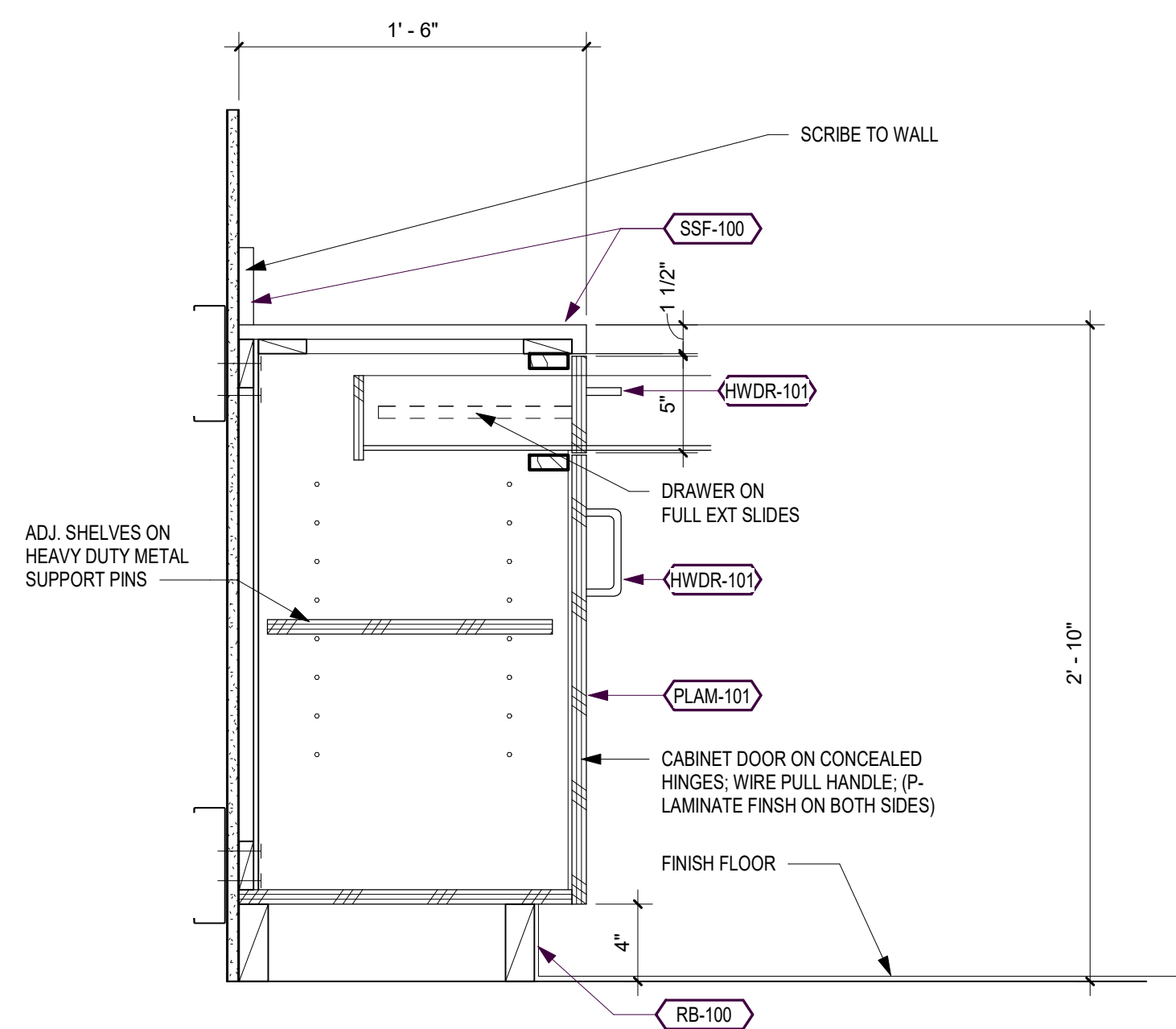
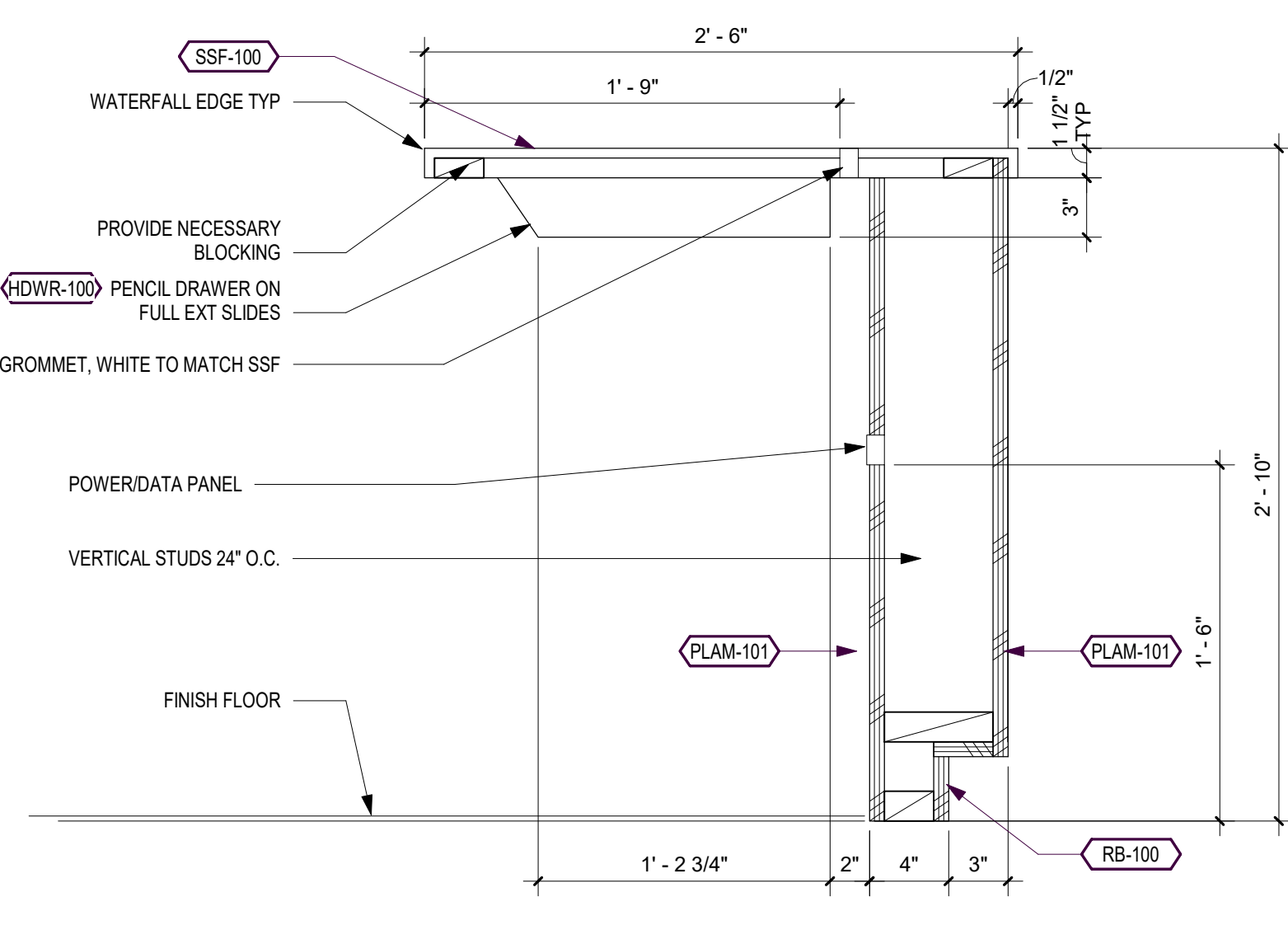
Current Revision

A110

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1 Floor Plan
1/8" = 1'-0"

1 Enlarged Plan - Toilet Rooms
1/4" = 1'-0"2 Enlarged Plan - Kitchen
1/4" = 1'-0"3 Enlarged Plan - Unisex Toilet & Shower Room
1/4" = 1'-0"6 Enlarged Plan - Reception
1/4" = 1'-0"4 Reception Elevation North
1/4" = 1'-0"5 Reception Elevation East
1/4" = 1'-0"7 Reception Elevation West
1/4" = 1'-0"8 Reception Elevation South
1/4" = 1'-0"9 Section Detail at Reception Desk
1 1/2" = 1'-0"10 Reception Counter
1 1/2" = 1'-0"

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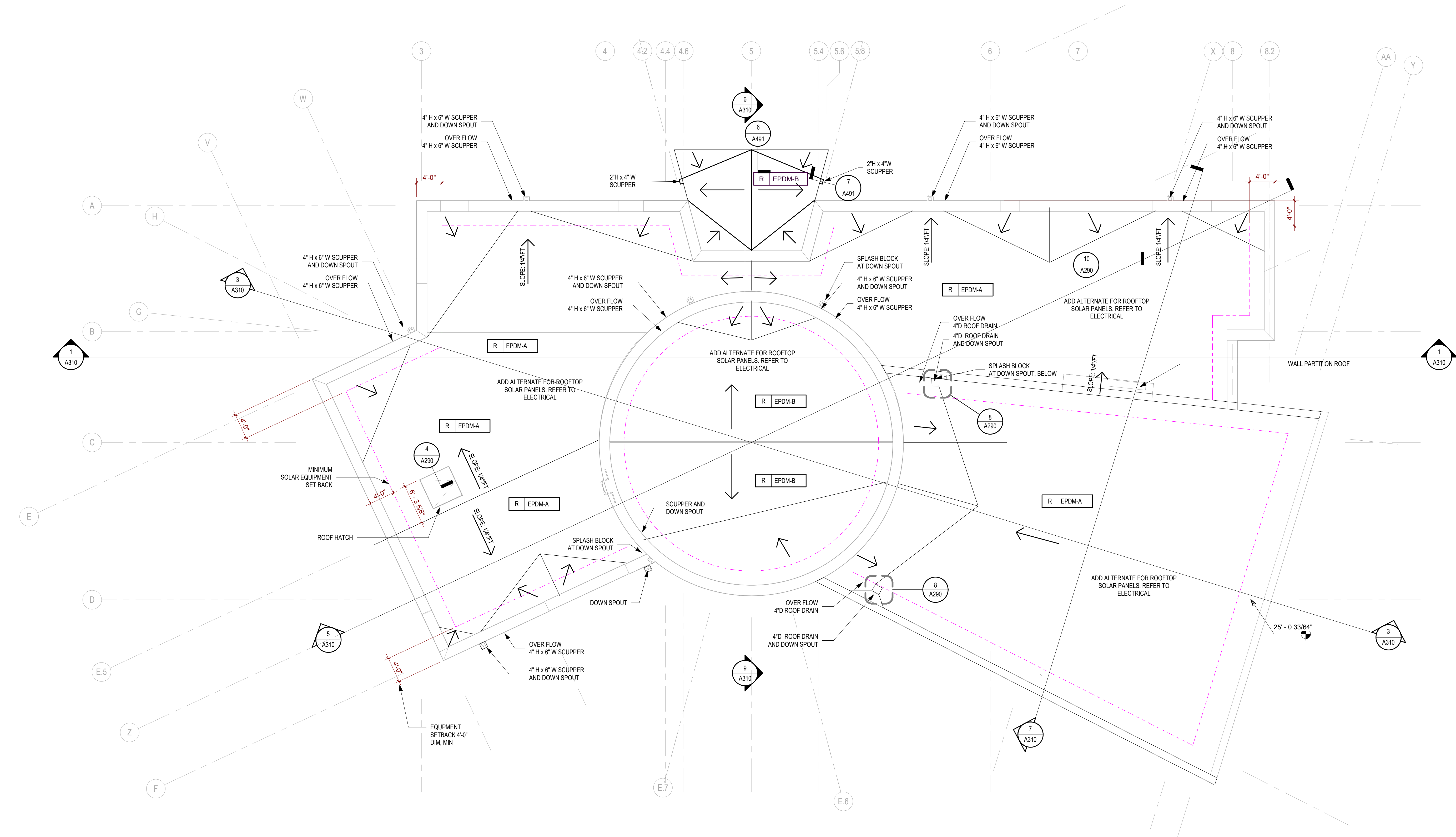
Roof Plan & Enlarged Roof
Plans

Sheet Number

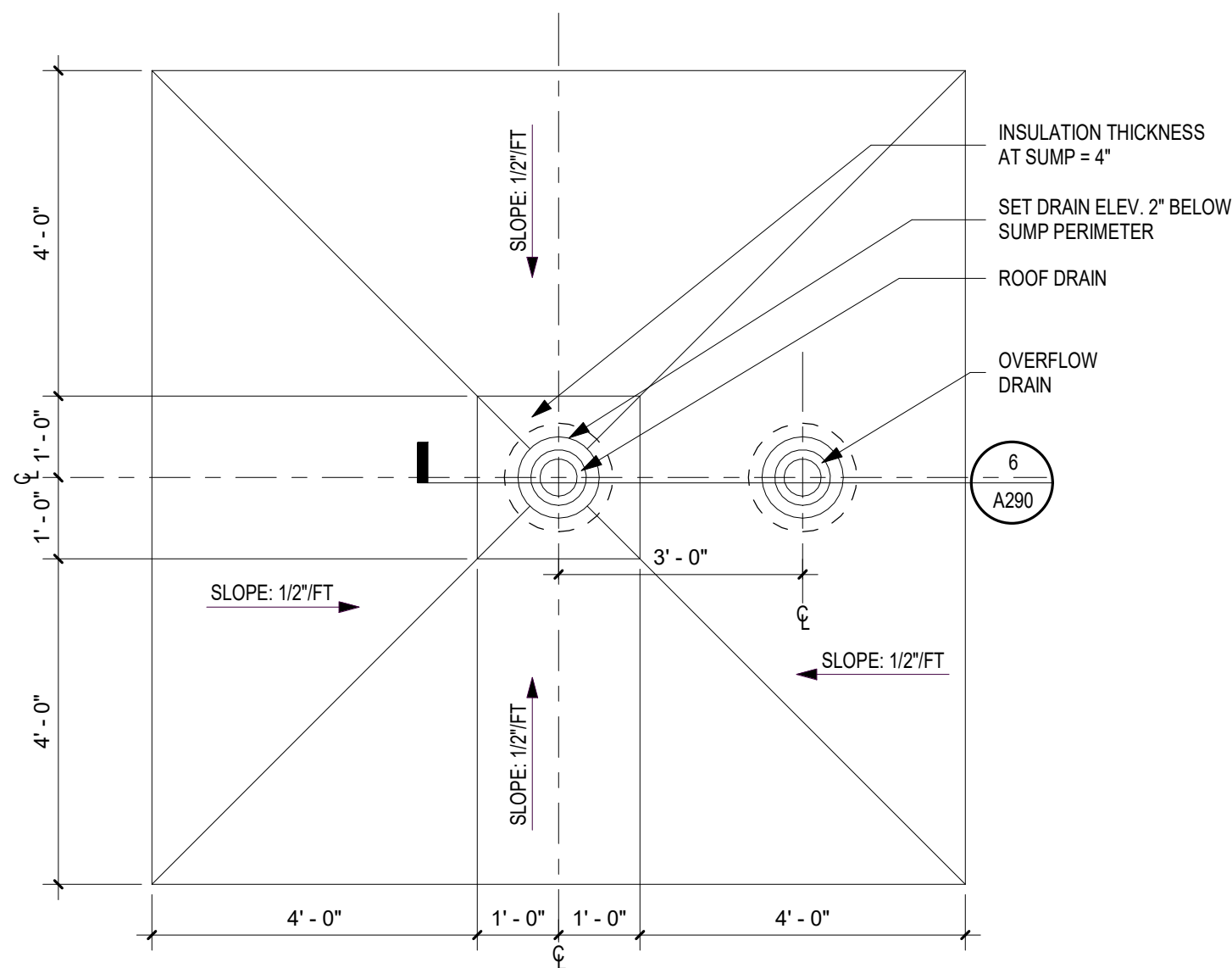
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A200

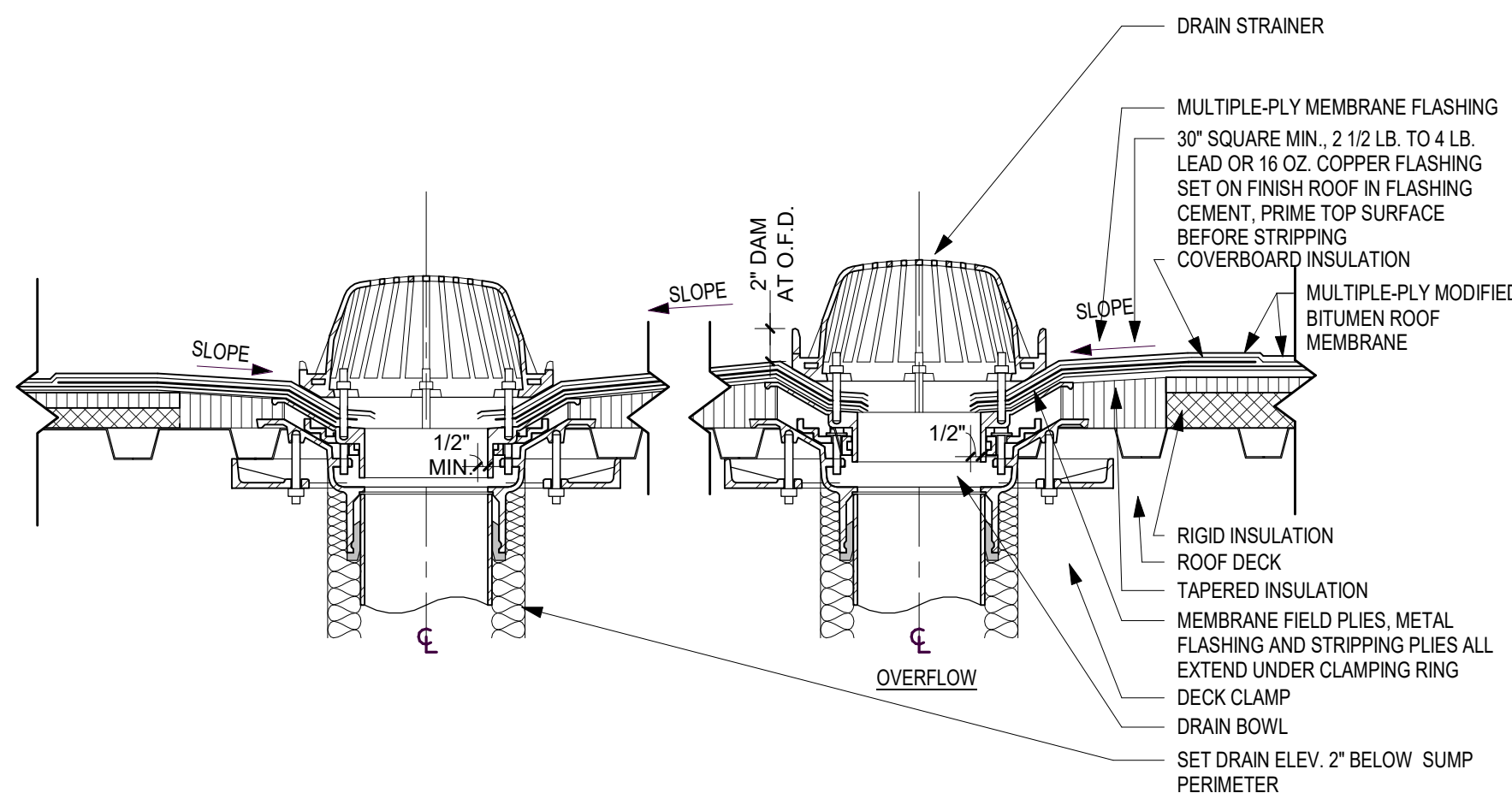
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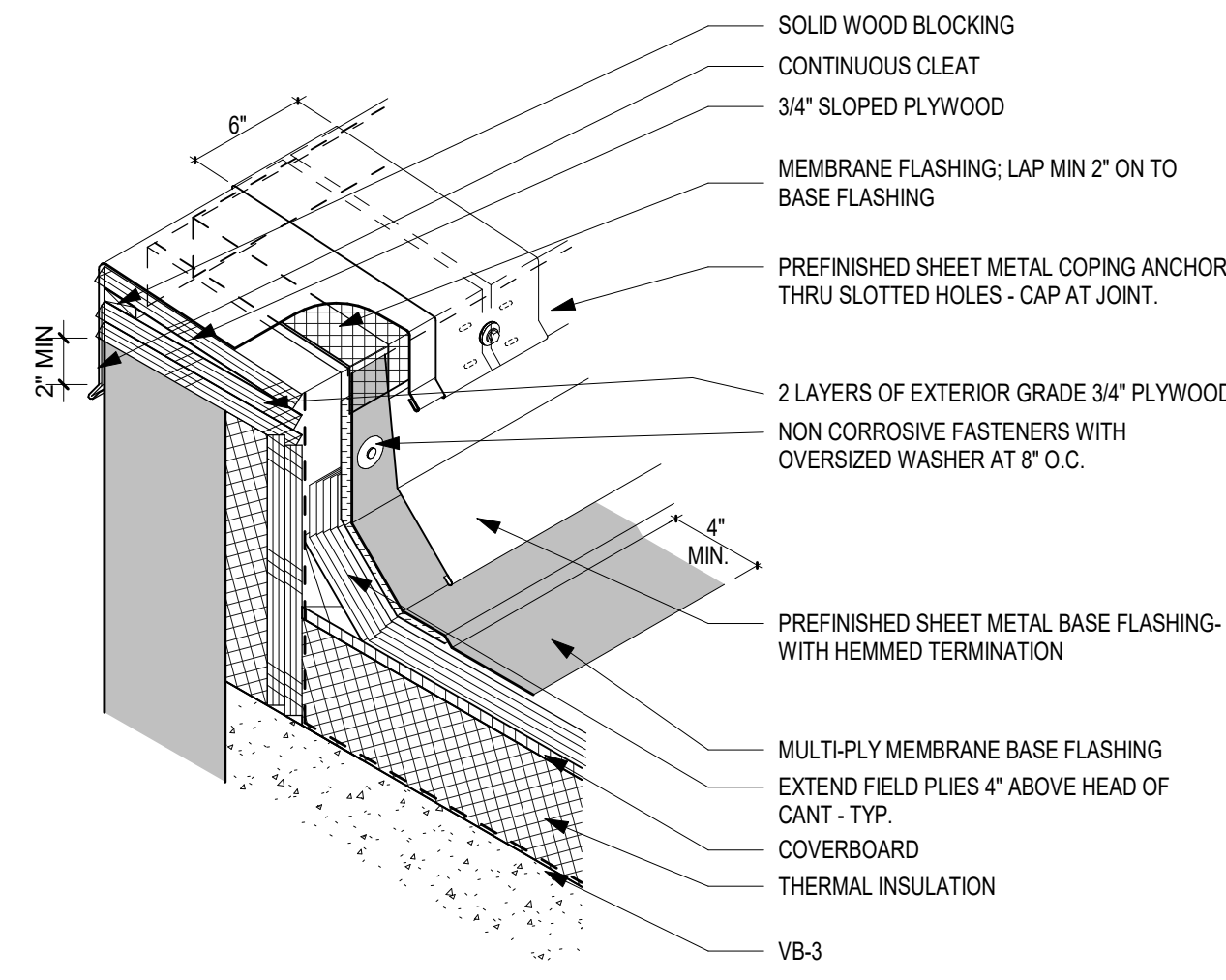
1 T.O. Parapet Plan
A200 1/8" = 1'-0"



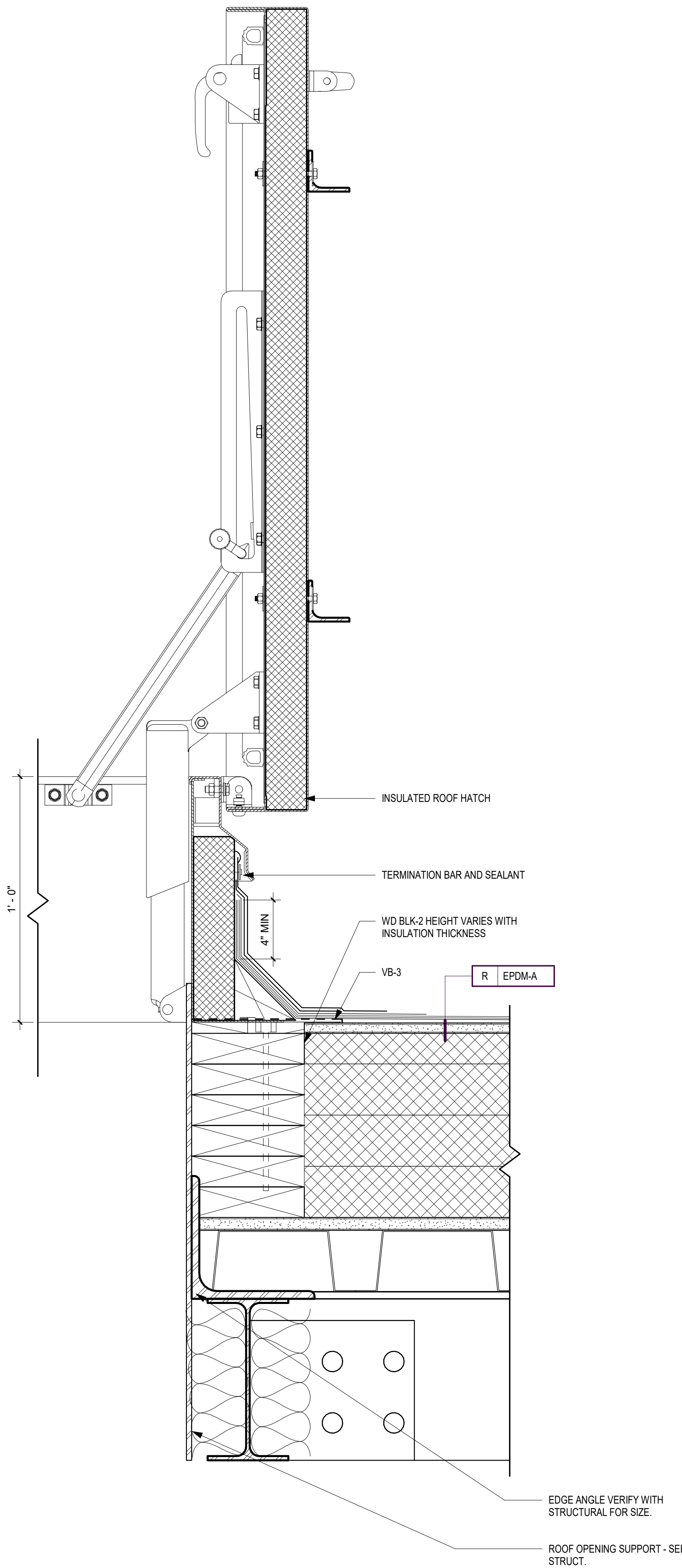
8 Roof Drain Sump with Drain Overflow
1/2" = 1'-0"



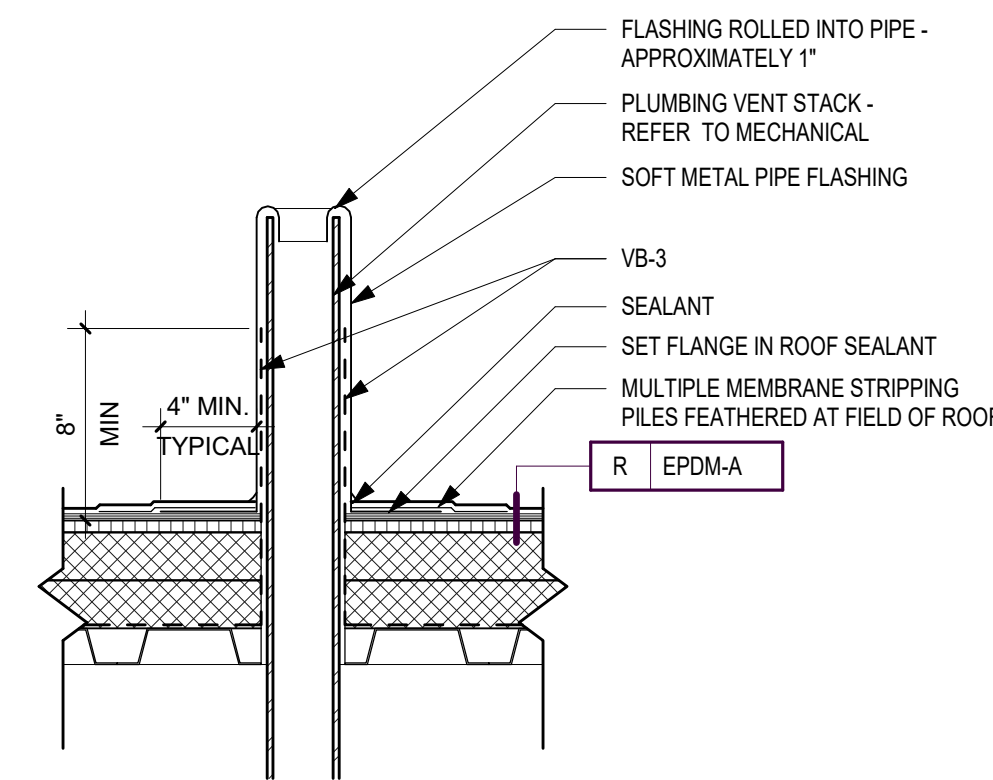
8 Drain Sump Section
1 1/2" = 1'-0"



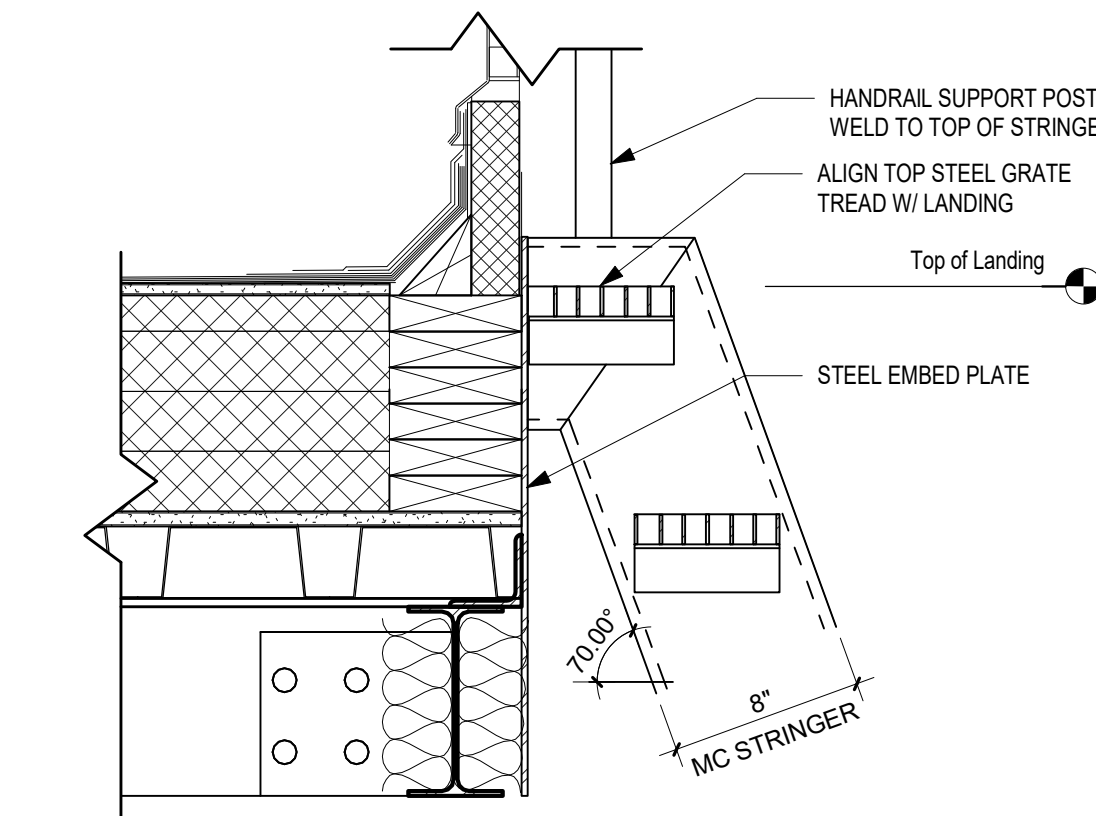
9 Typ. Parapet Axon
1 1/2" = 1'-0"



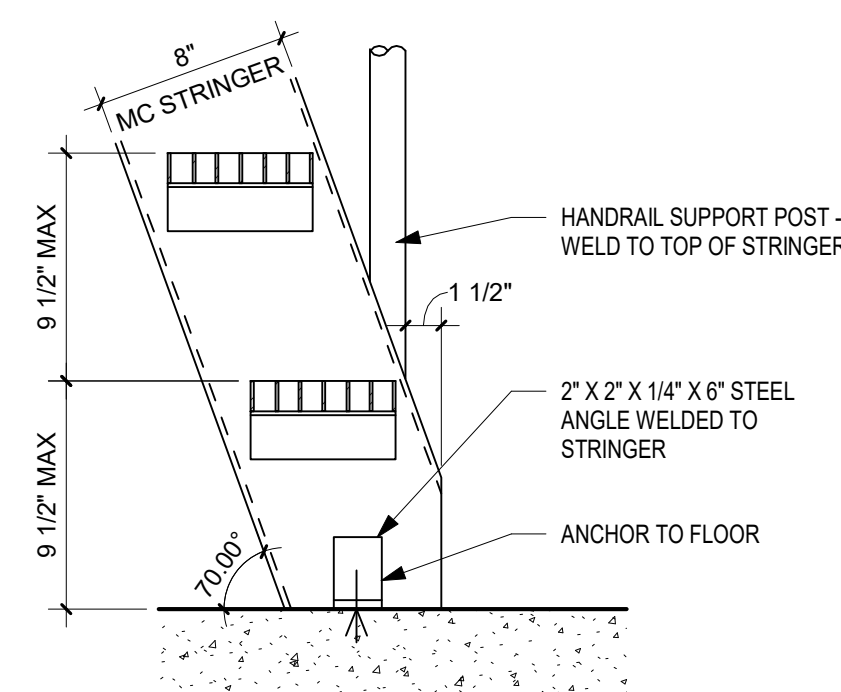
4 Roof Access Hatch Section Detail
3" = 1'-0"



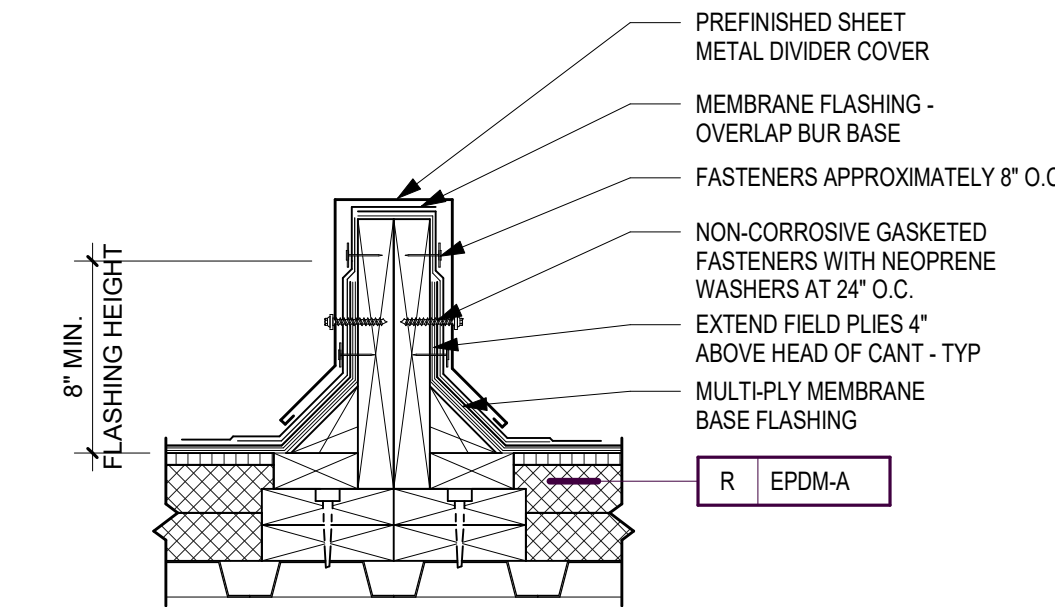
10 Typ. Vent Flashing Detail
1 1/2" = 1'-0"



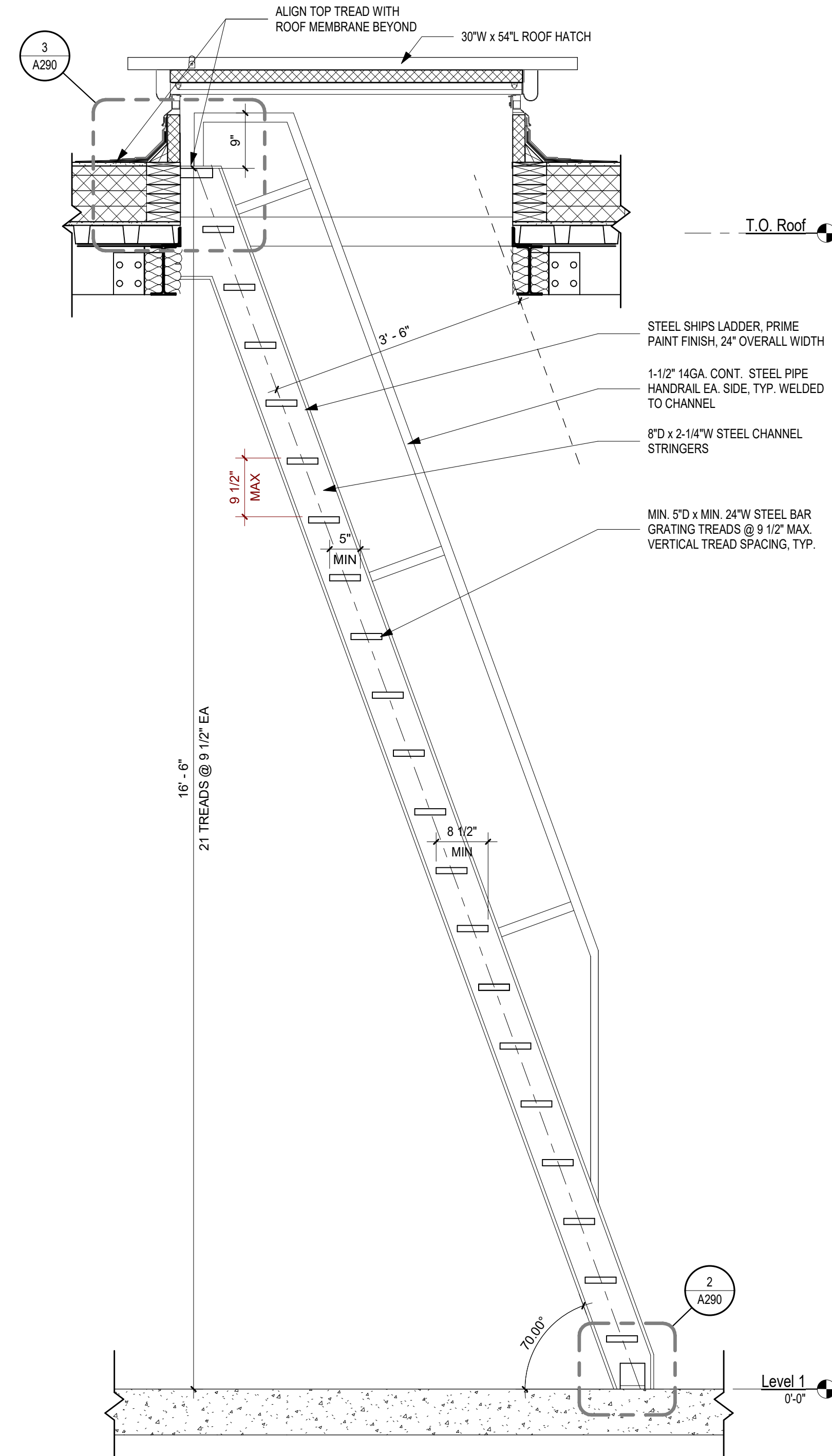
3 Ship Ladder @ Top Landing
1 1/2" = 1'-0"



2 Ship Ladder @ Base
1 1/2" = 1'-0"



5 Area Divider
1 1/2" = 1'-0"



1 Ship Ladder
3/4" = 1'-0"

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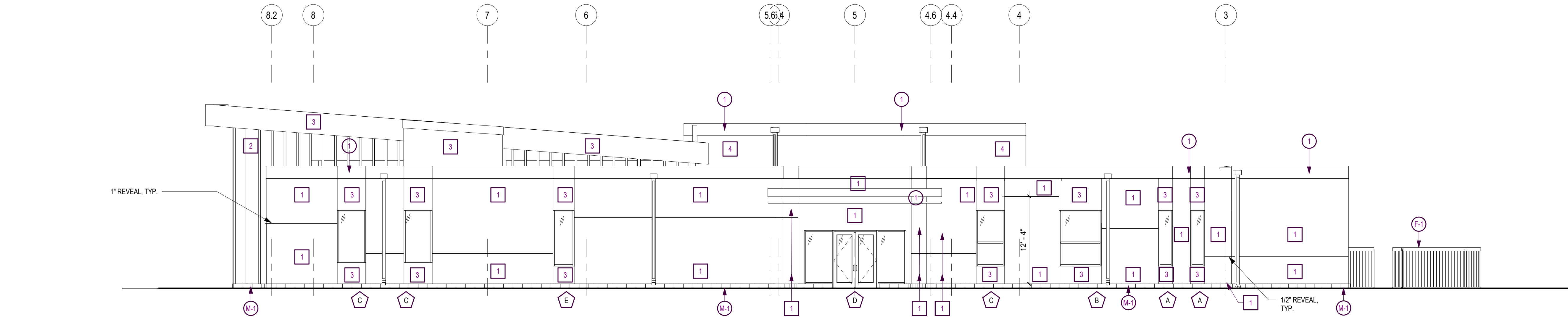
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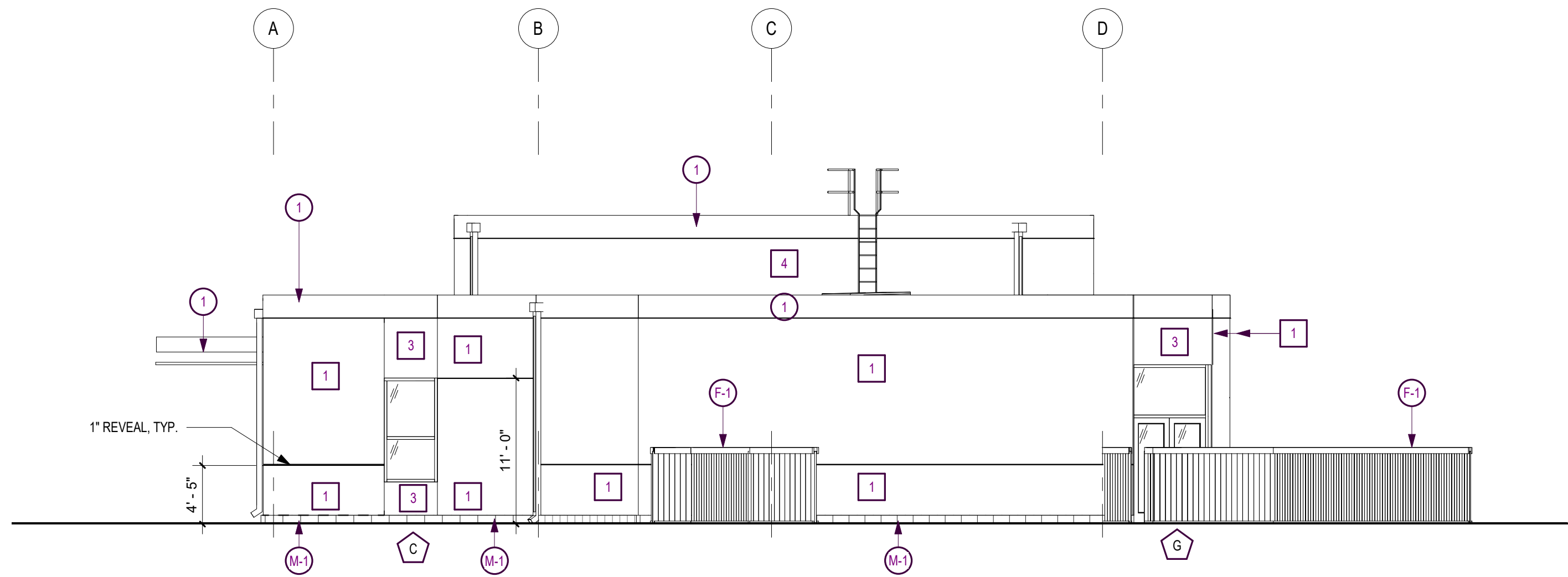
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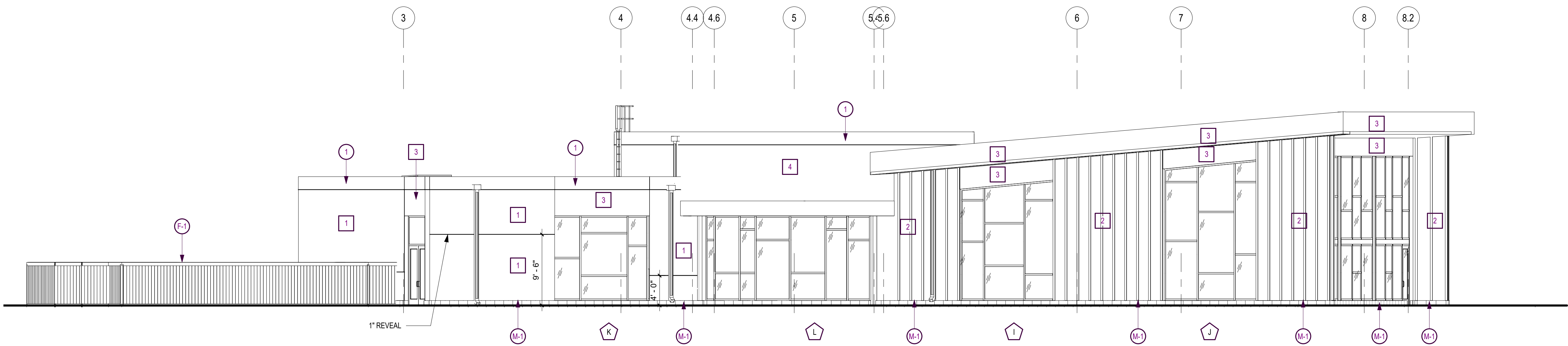
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1 North Exterior Elevation - Overall
A300
1/8" = 1'-0"



2 West Exterior Elevation - Overall
A300
1/8" = 1'-0"



3 South Exterior Elevation - Overall
A300
1/8" = 1'-0"



4 East Exterior Elevation - Overall
A300
1/8" = 1'-0"

RAINSCREEN CLADDING	
1	PRODUCT: ACRYLIC STUCCO WITH DRAINSREEN WITH CRACK DEFENSE OPTION FINISH: MEDIUM COLOR: LIGHT TAN
2	PRODUCT: FIBRECEMENT VERTICAL PLANK SIDING WITH BATTEN BOARDS FINISH: BOARD - WOOD TEXTURED TRIM - ROUGHSAWN COLOR: BOARD - DARK BROWN TRIM - DARK BROWN
3	PRODUCT: FIBRECEMENT PANEL SIDING FINISH: SMOOTH COLOR: DARK GREY
4	PRODUCT: ACRYLIC STUCCO WITH DRAINSREEN WITH CRACK DEFENSE OPTION FINISH: MEDIUM COLOR: DARK BROWN
GLASS & GLAZING	
AA	STOREFRONT/CURTAINWALL SYSTEM - REFER TO A801 FINISH - DARK BRONZE GLAZING - 1" INSULATED TINTED WITH BIRD SAFE GRAPHICS
METAL FLASHINGS	
1	PREFINISHED METAL WALL CAP COLOR: DARK BRONZE, 1'-8"
EXTERIOR FENCE ASSEMBLY	
F-1	6'-0" HIGH CEDAR WOOD PRIVACY FENCE, WITH GATES
MASONRY UNITS	
M-1	DECORATIVE MASONRY ABOVE GRADE

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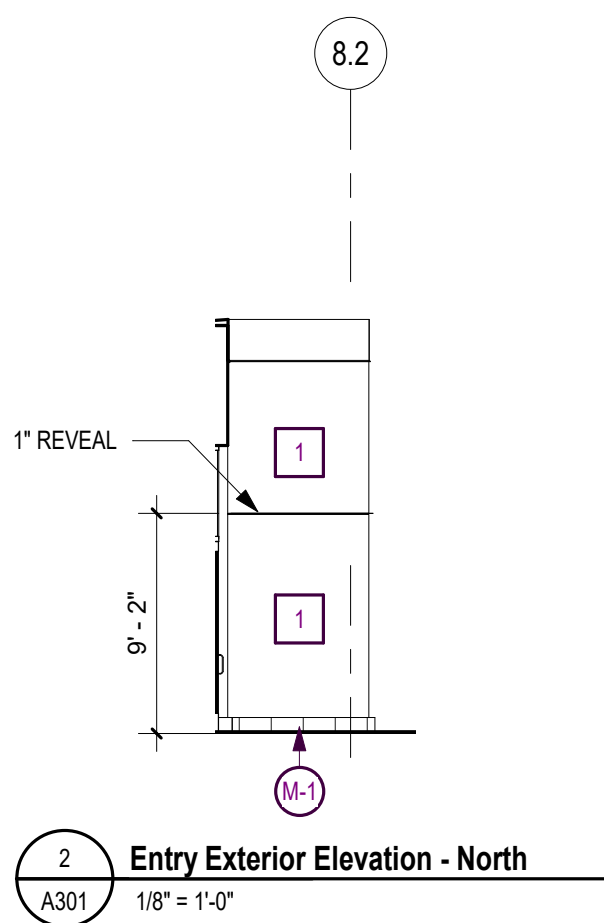
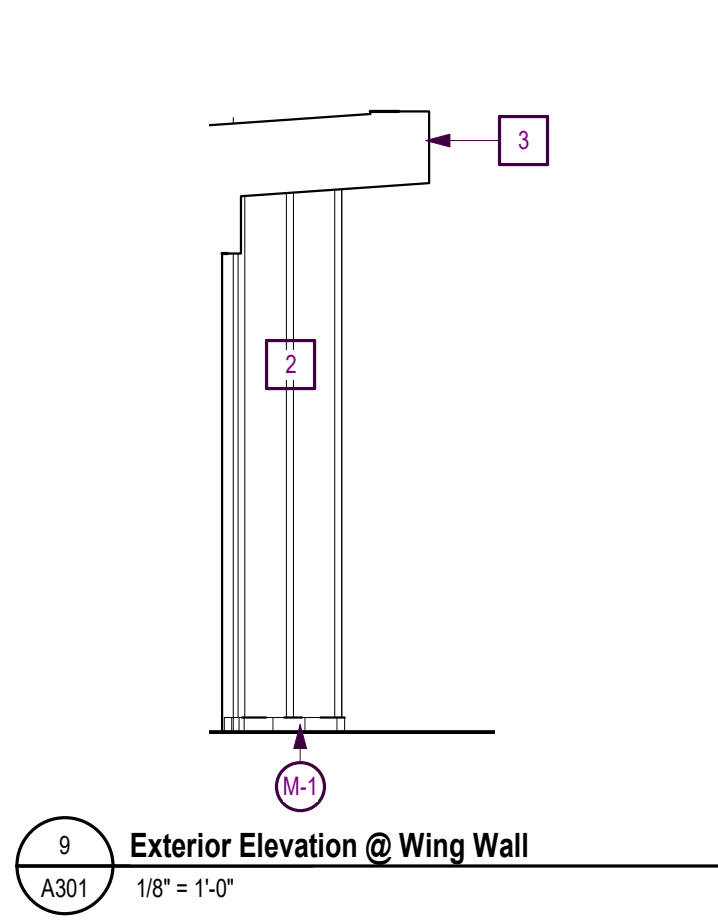
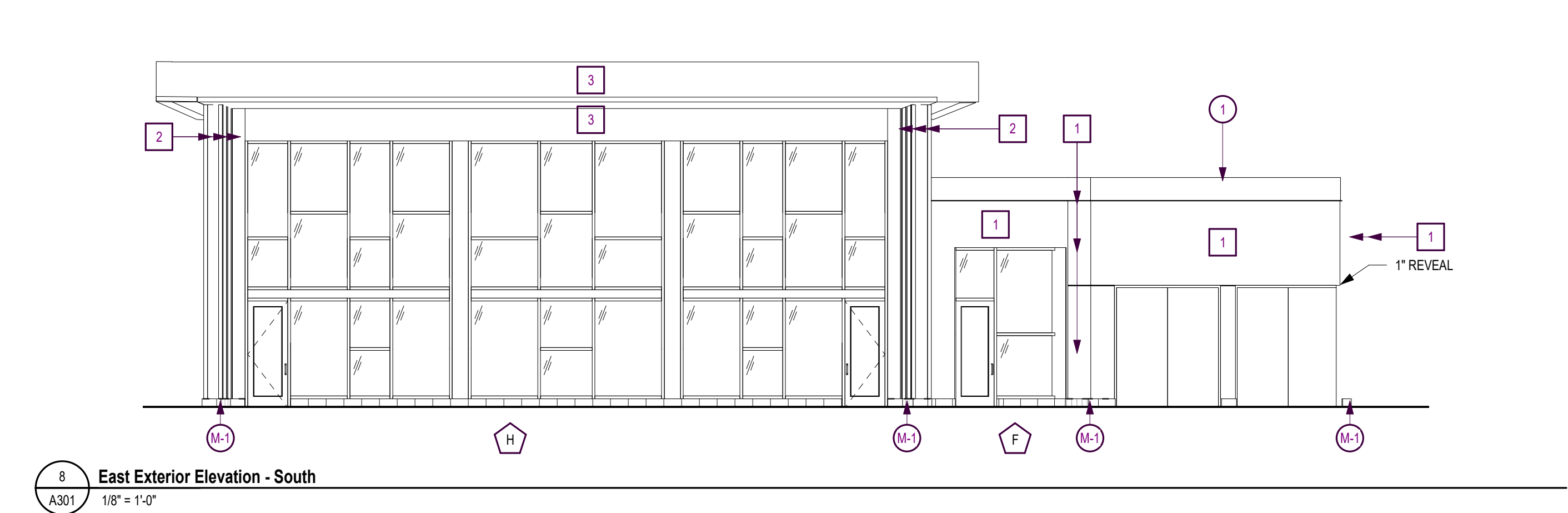
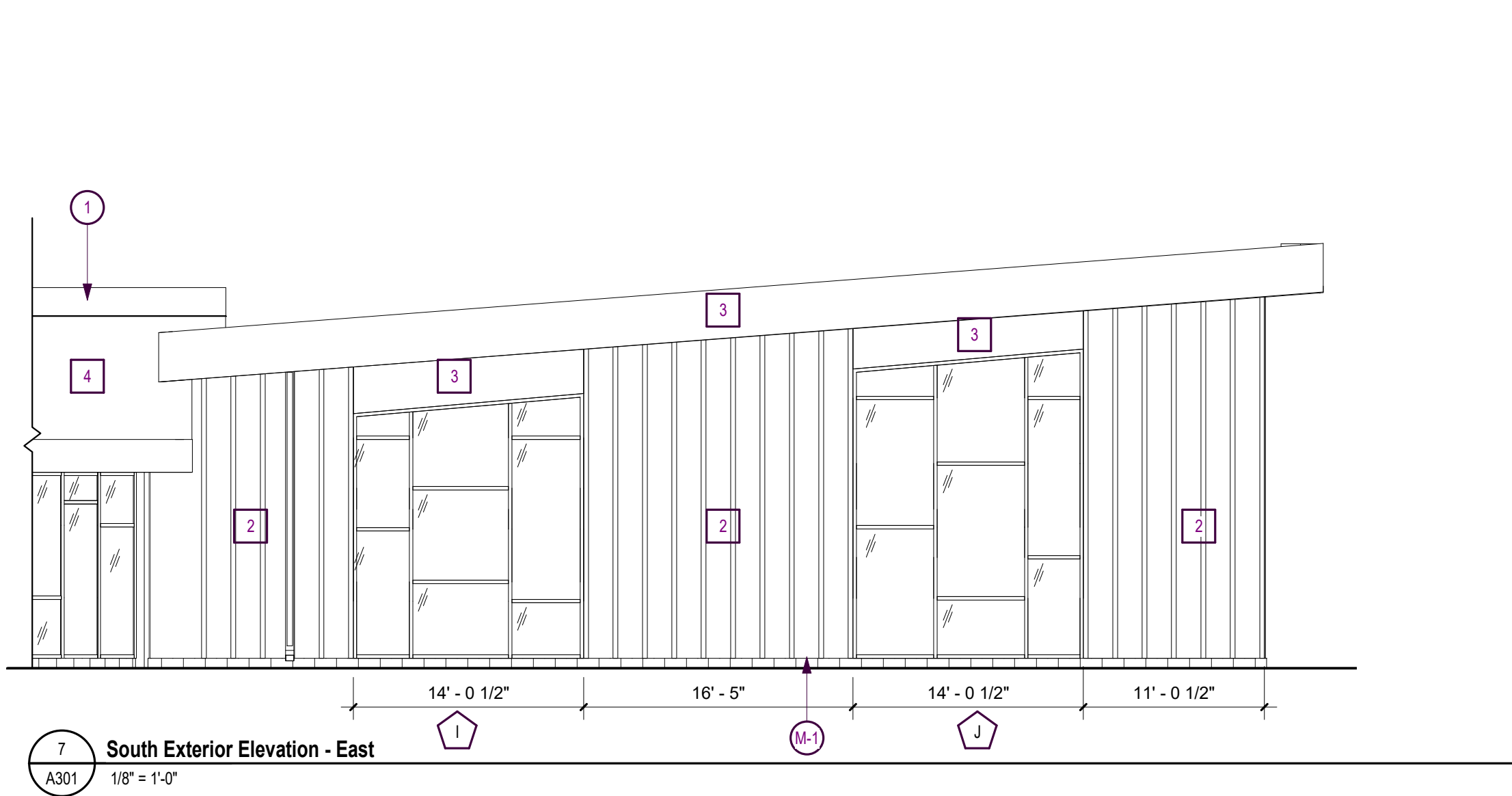
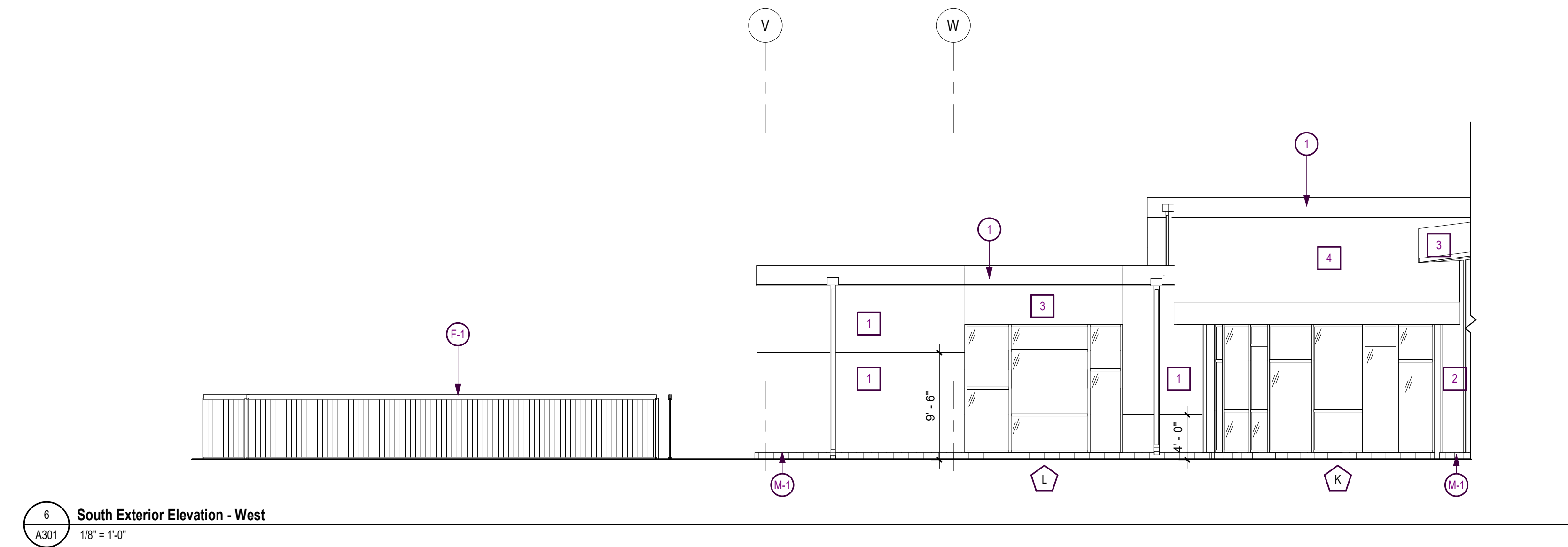
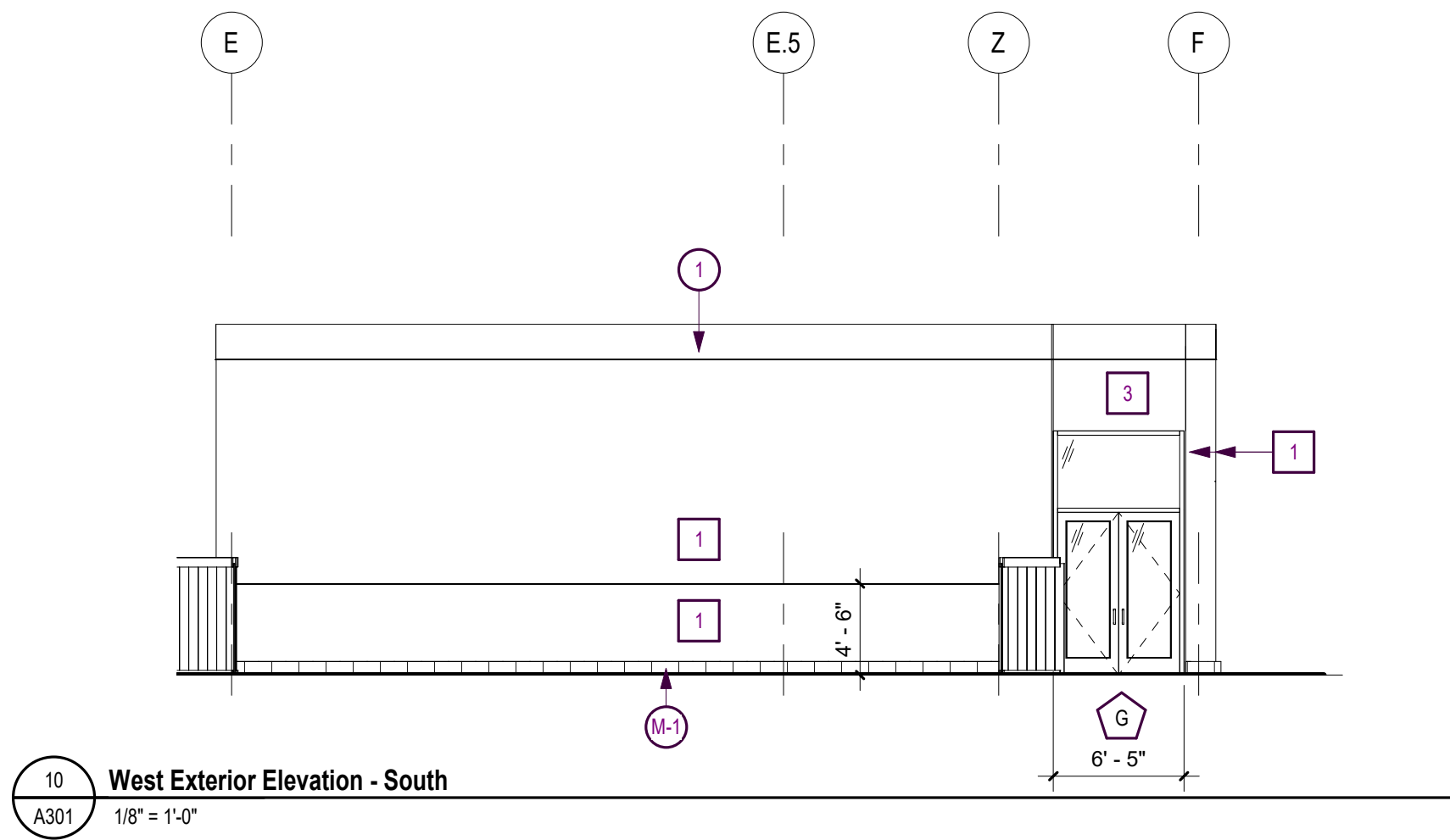
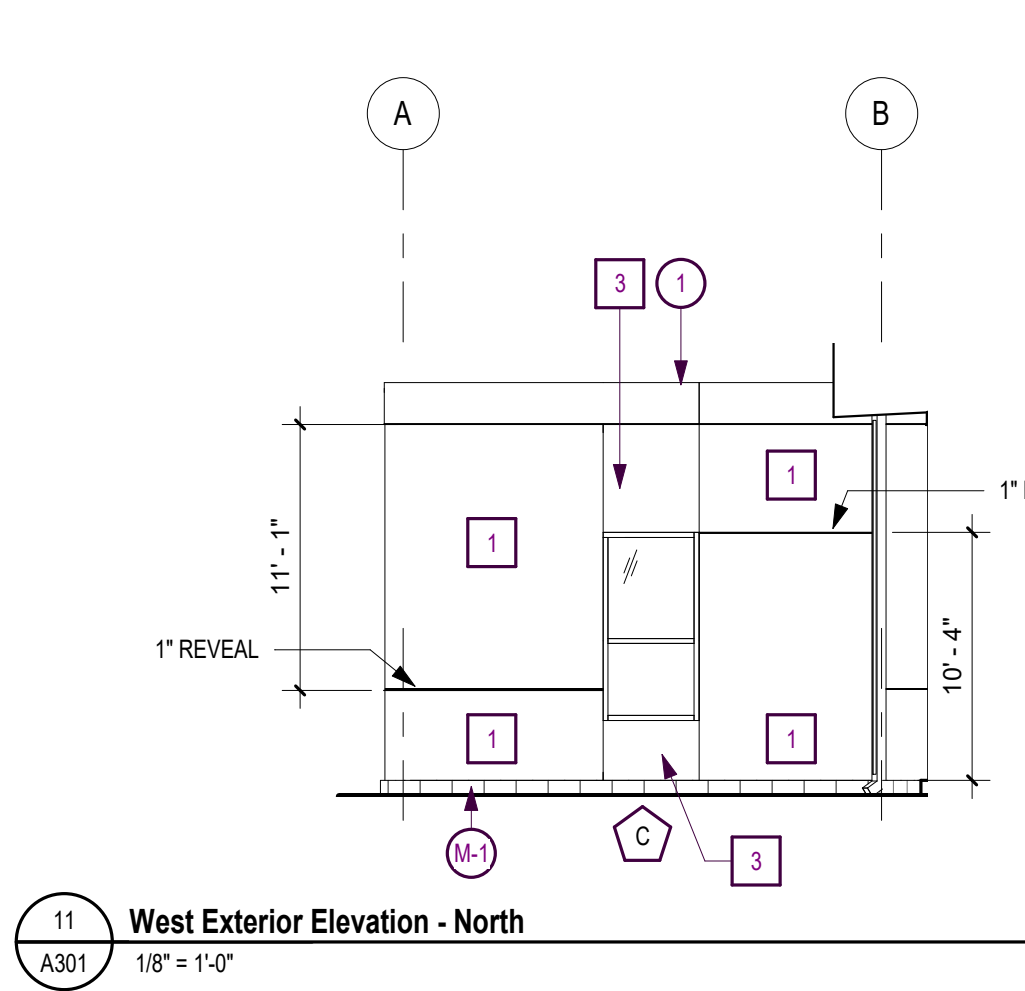
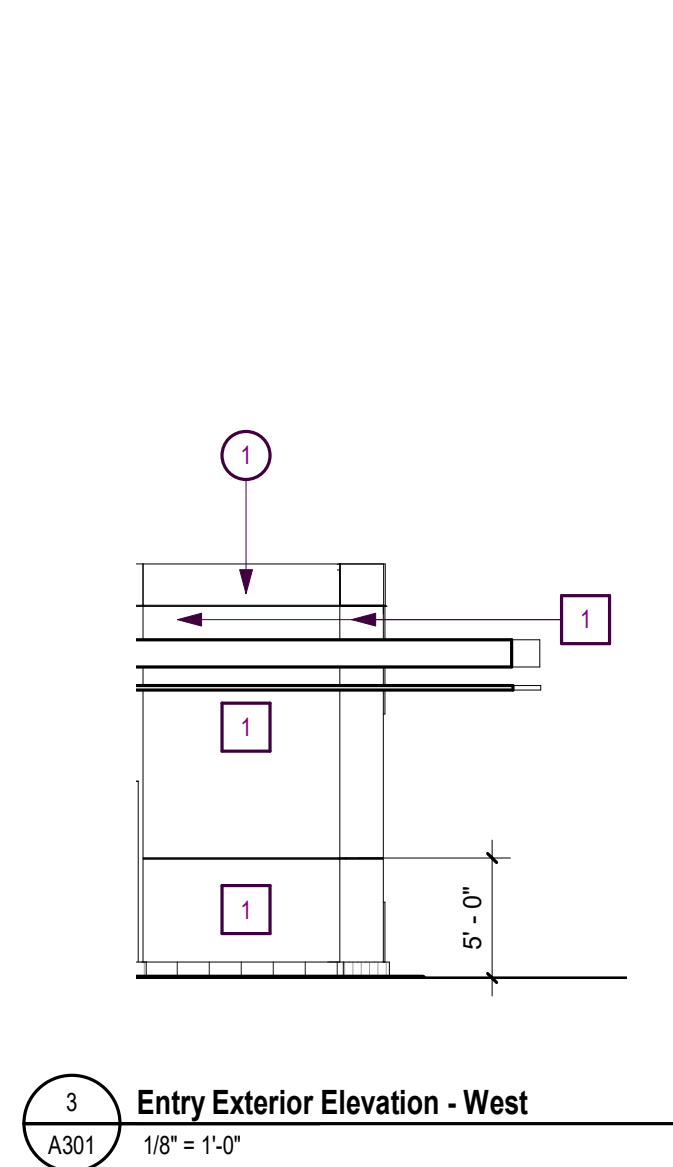
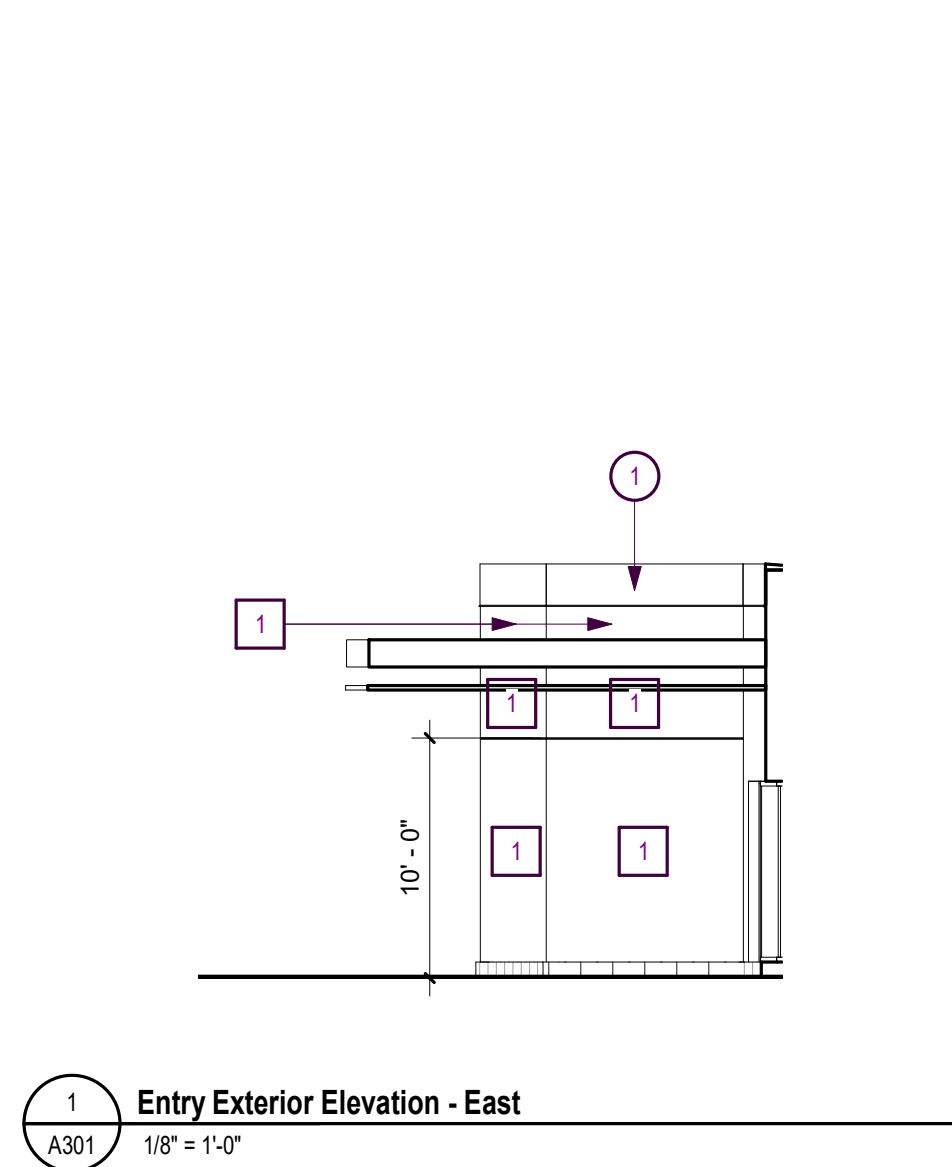
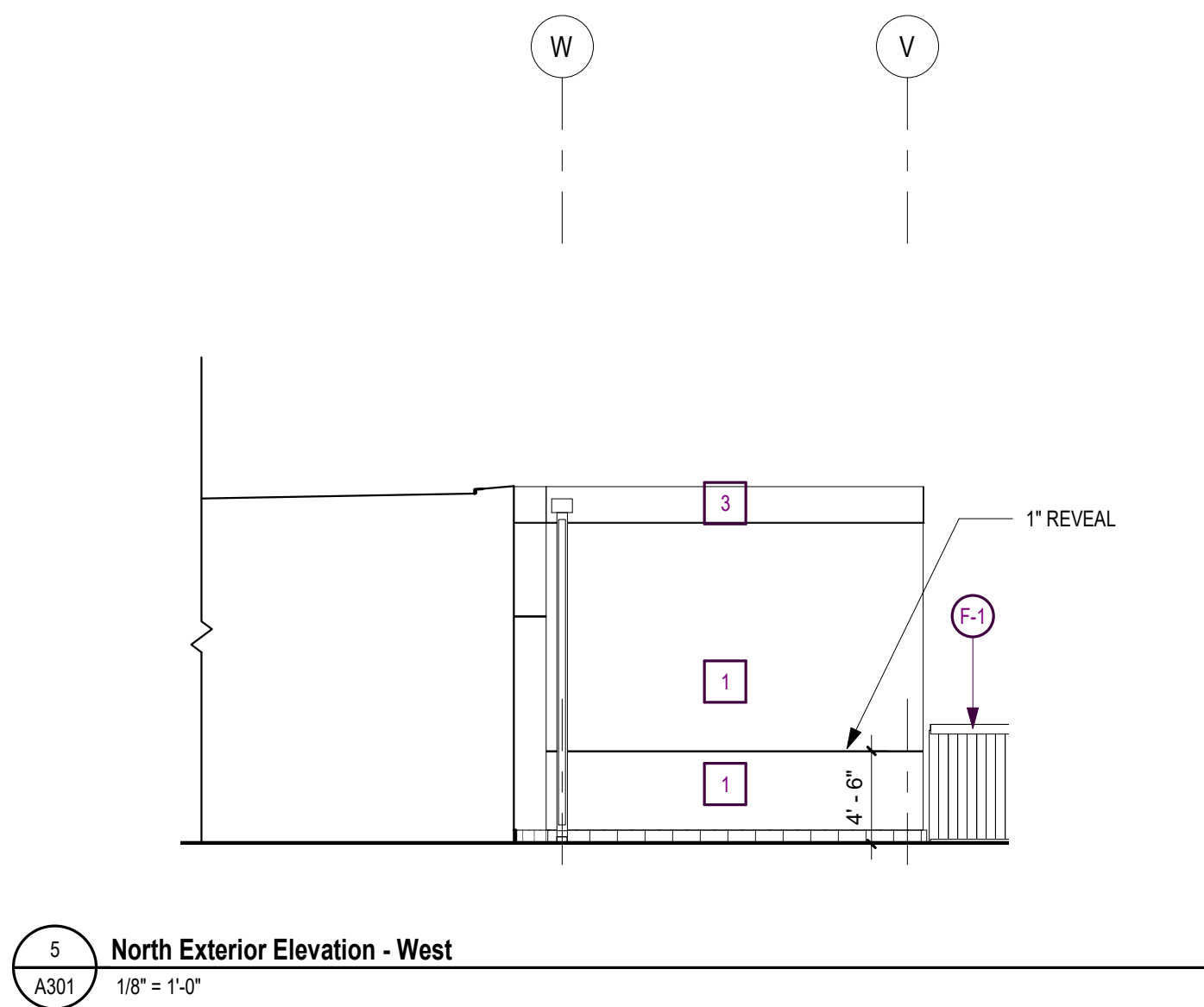
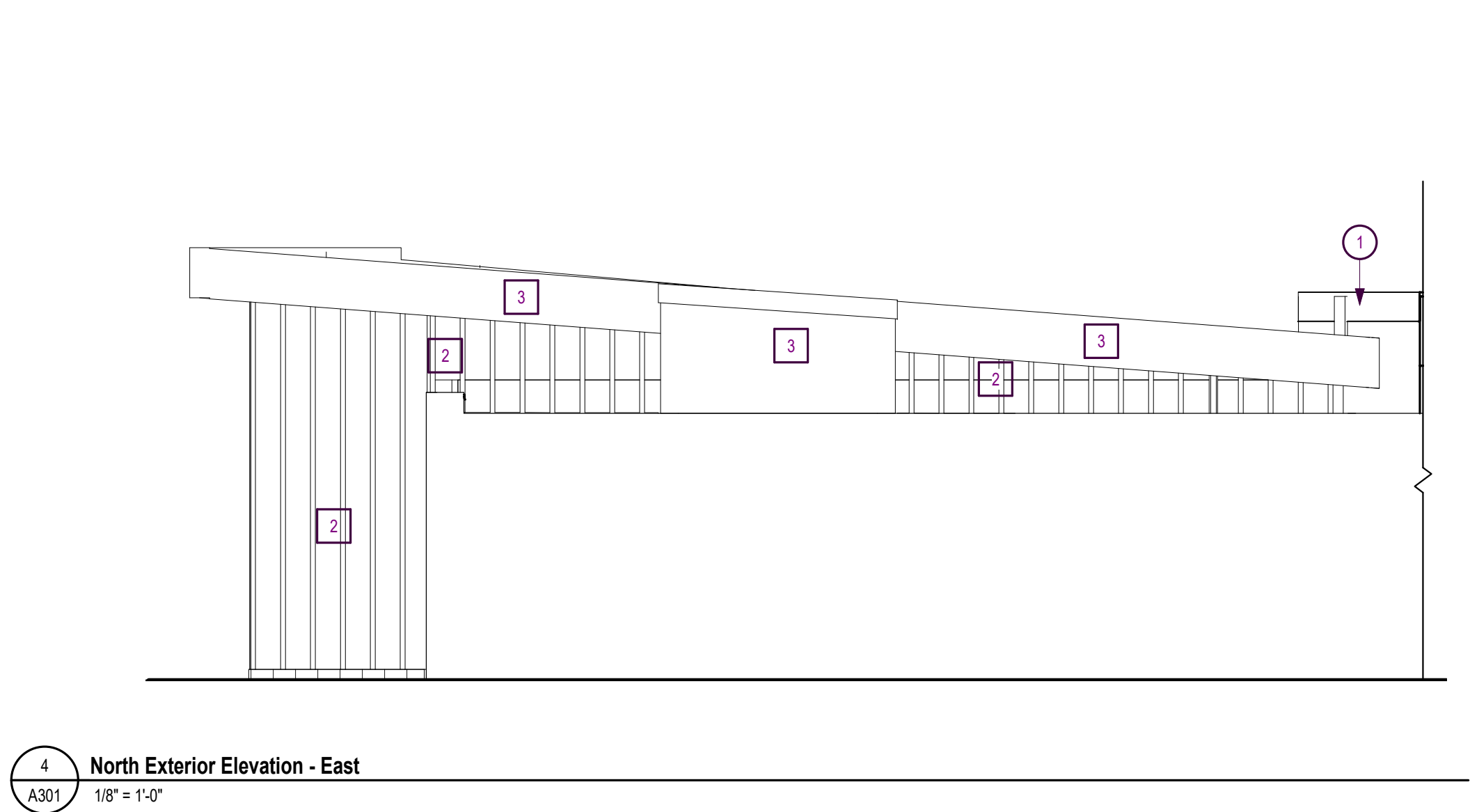
Sheet Title
Exterior Elevations

Sheet Number
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A300

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2	PRODUCT: FIBRECEMENT VERTICAL PLANK SIDING WITH BATTEN BOARDS FINISH: BOARD - WOOD TEXTURED TRIM - ROUGHSAWN COLOR: BOARD - DARK BROWN TRIM - DARK BROWN
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Drawing Package

Sheet Title

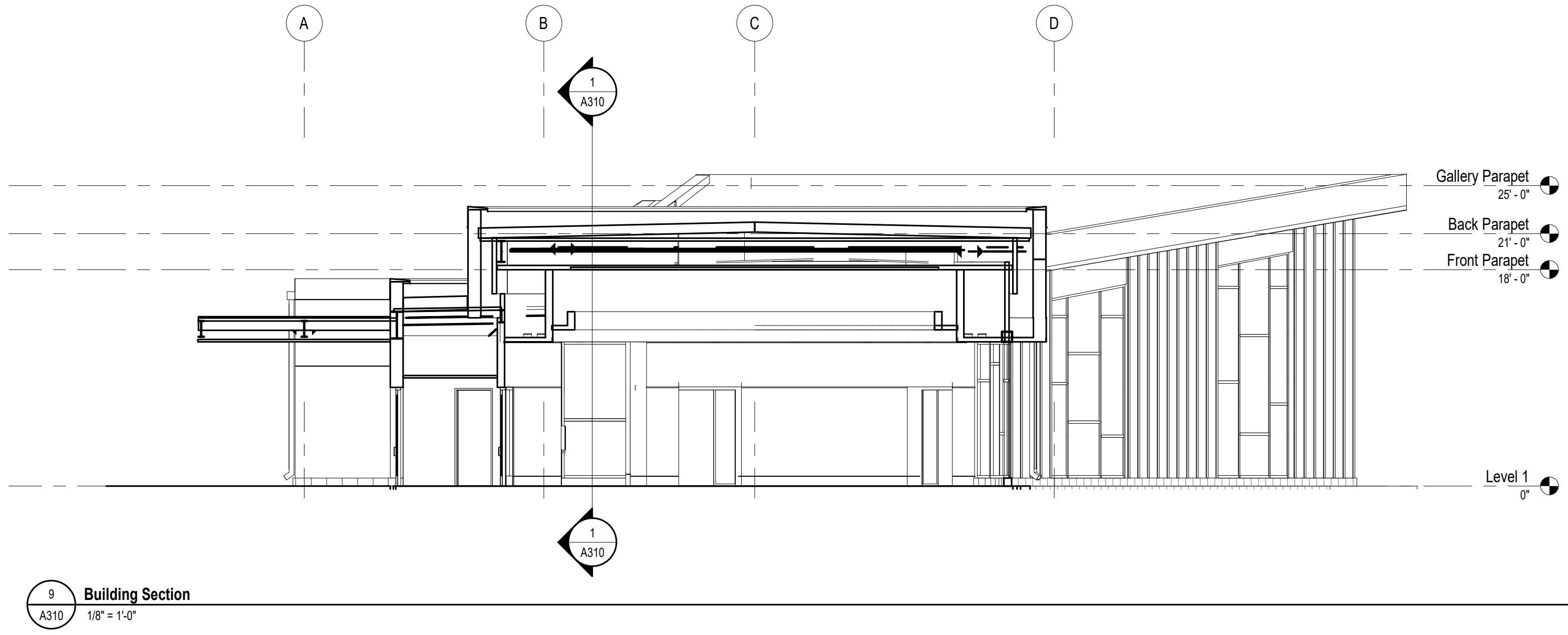
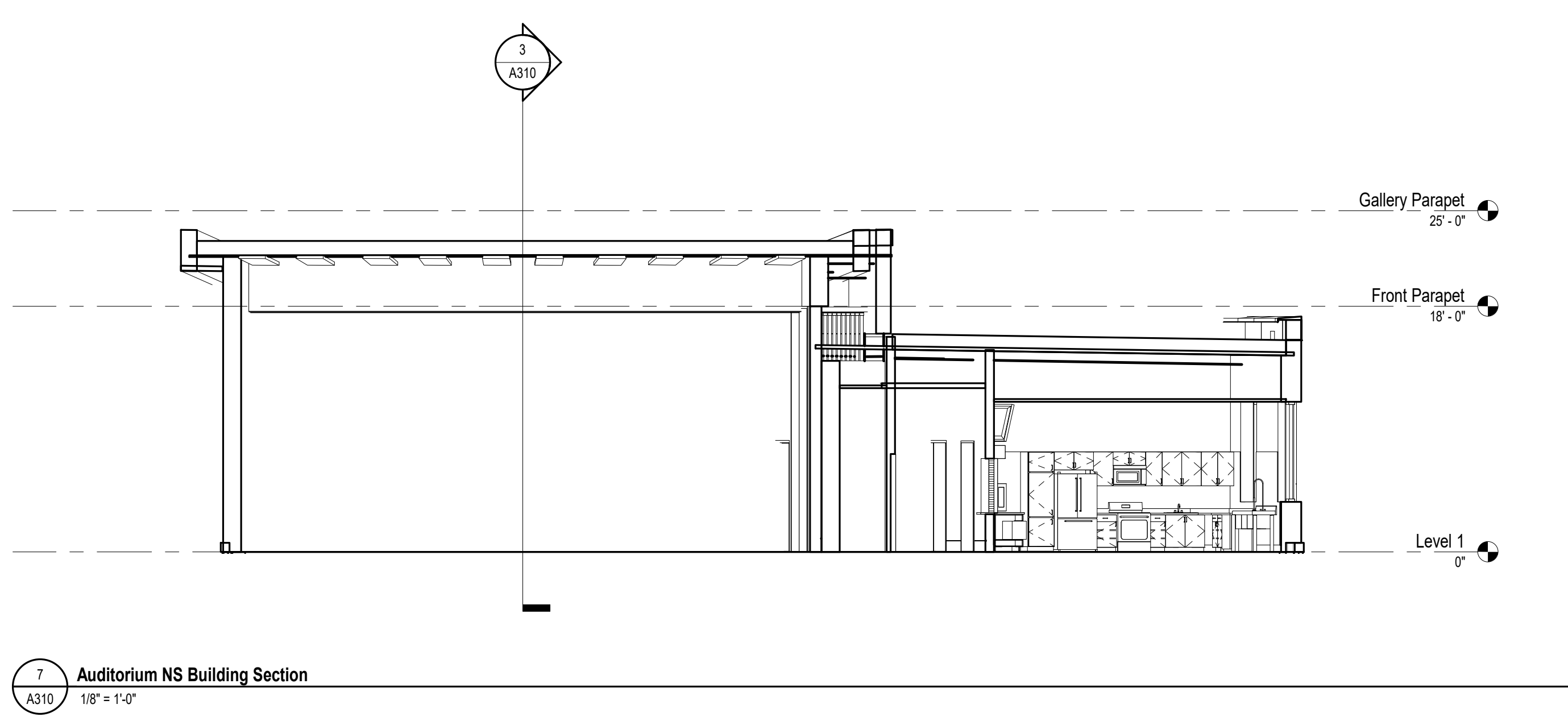
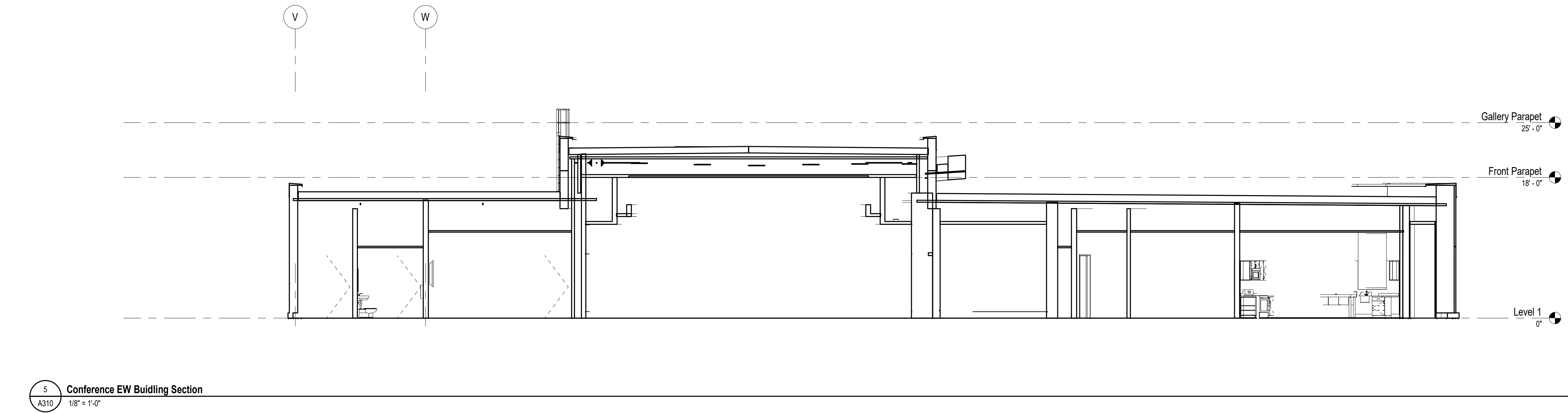
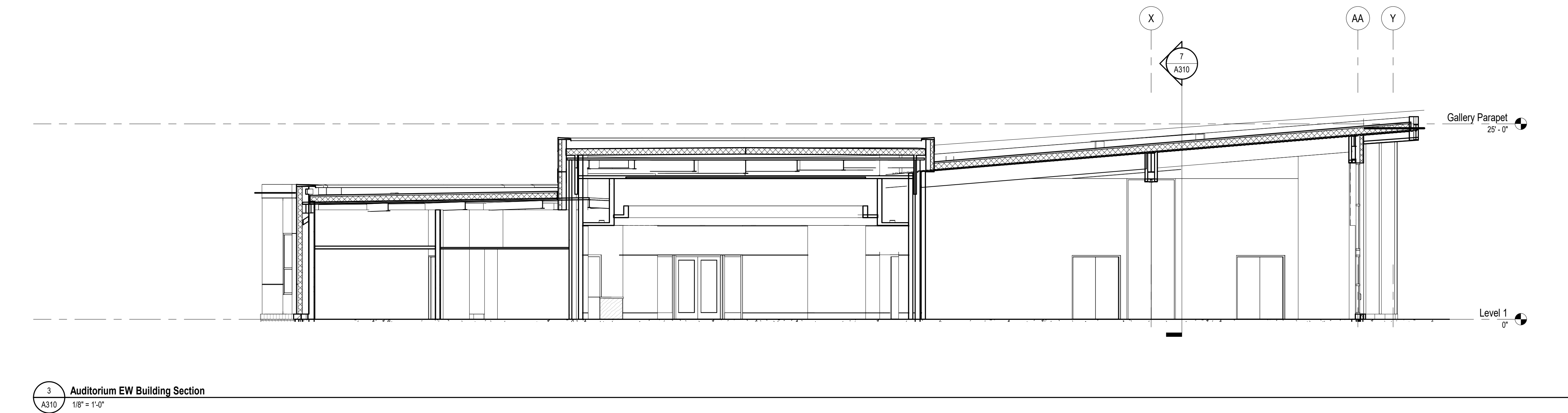
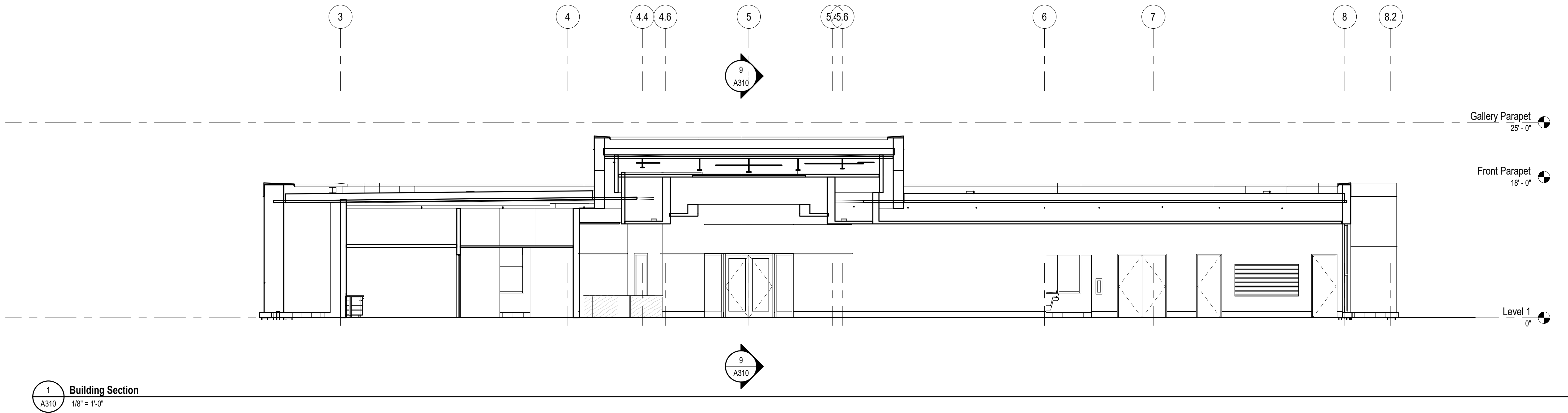
Exterior Elevations

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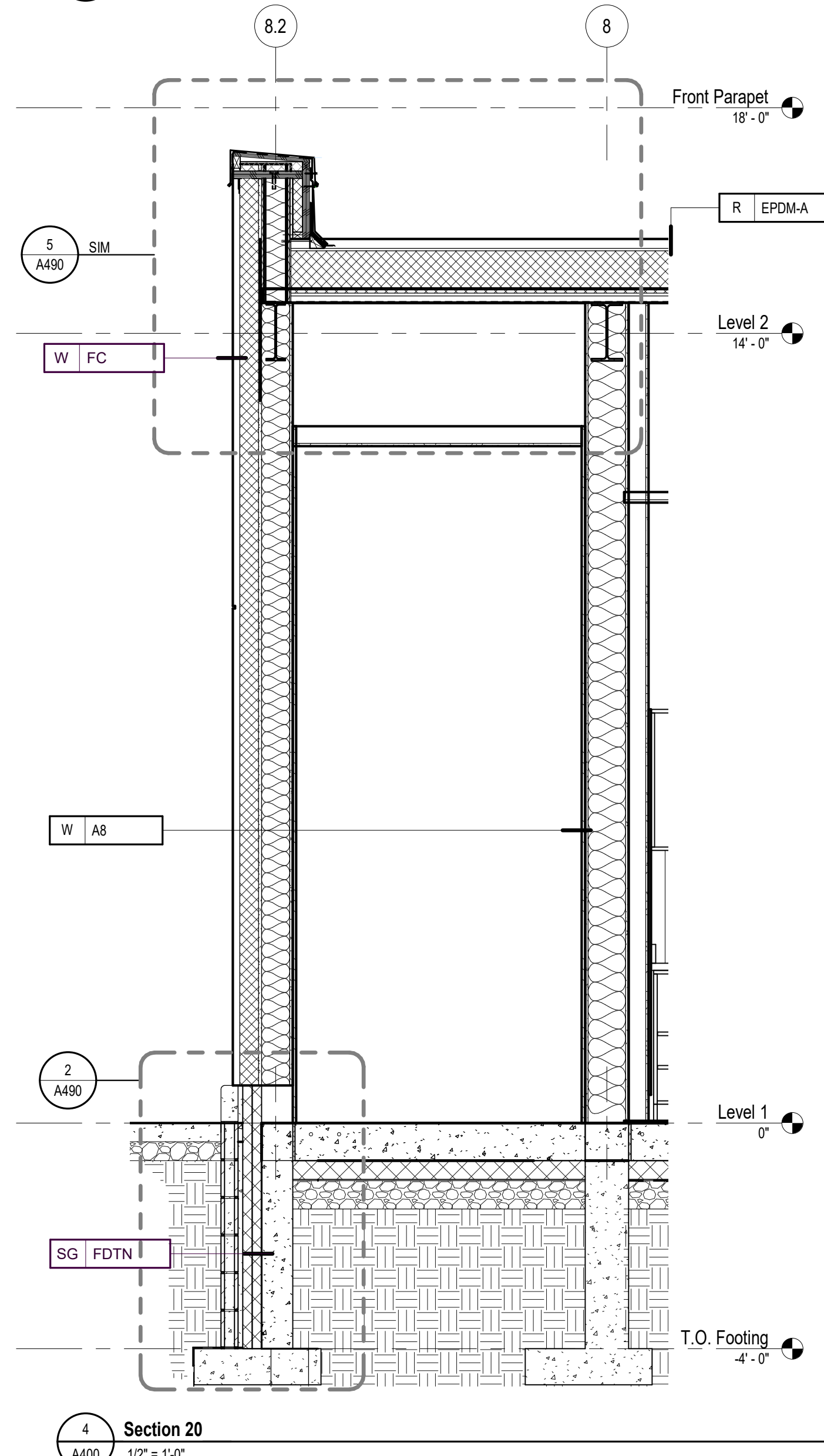
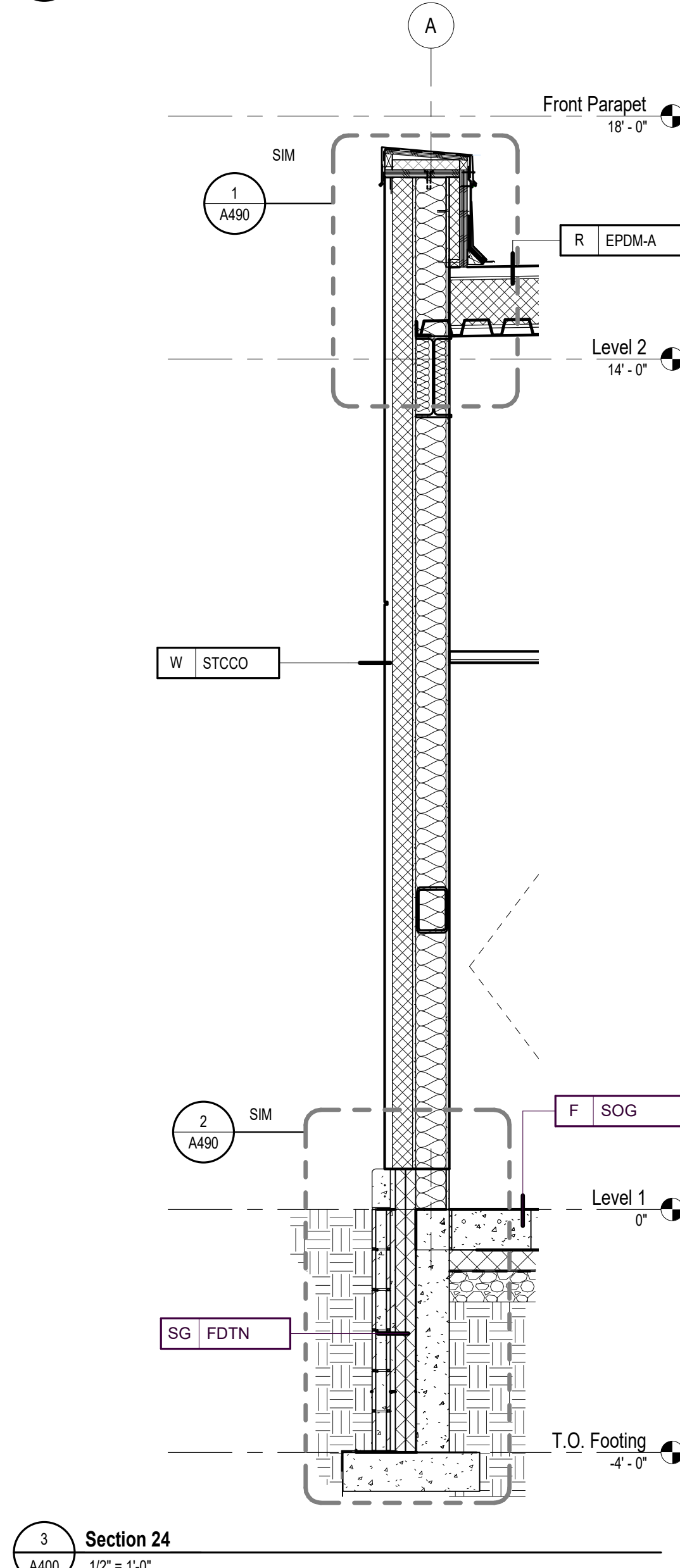
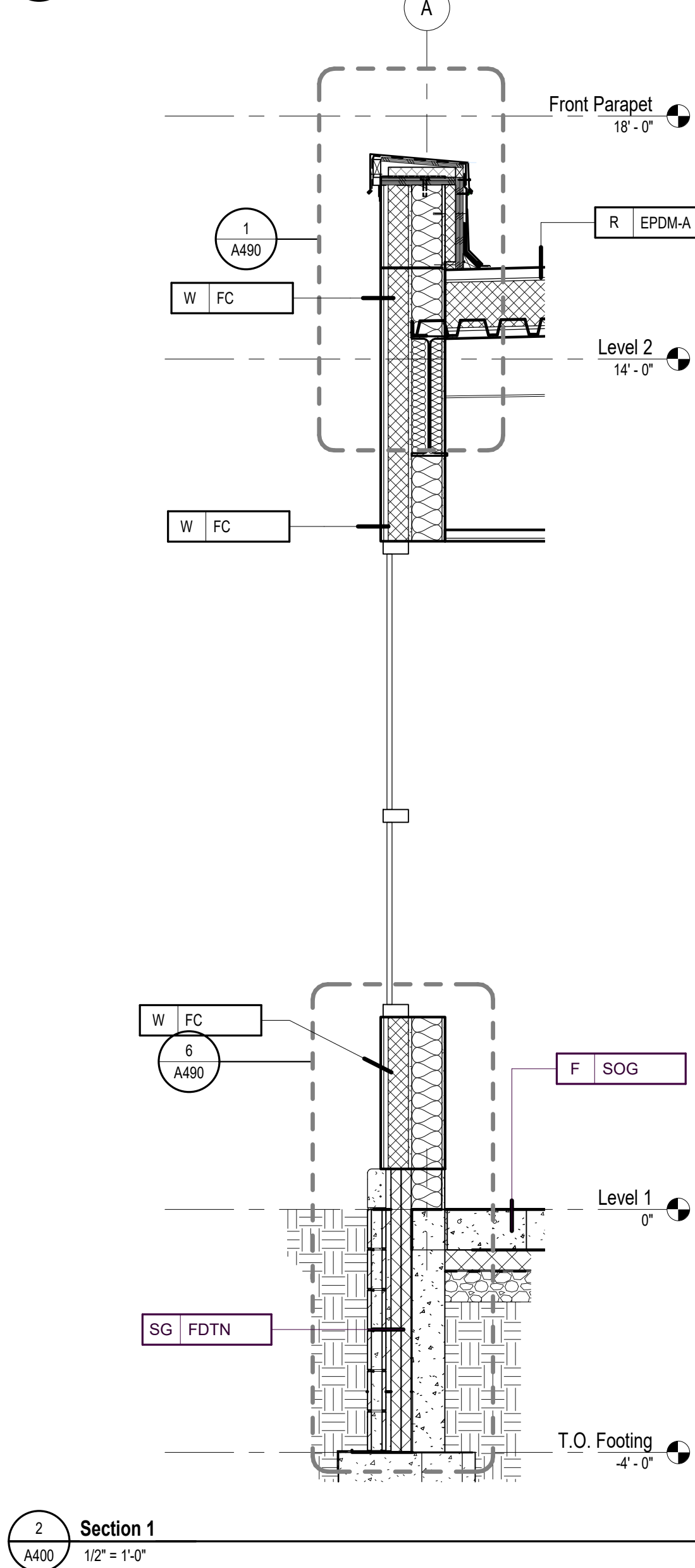
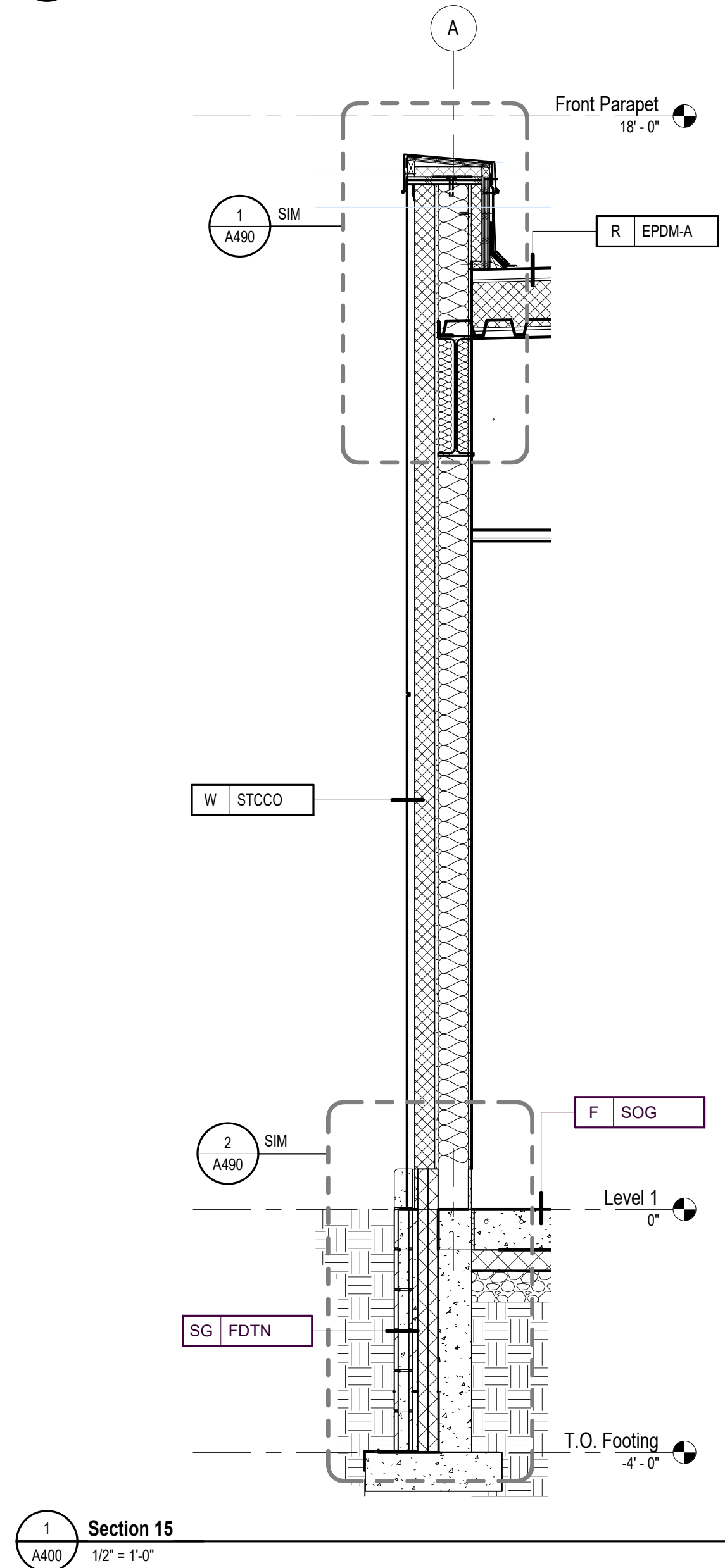
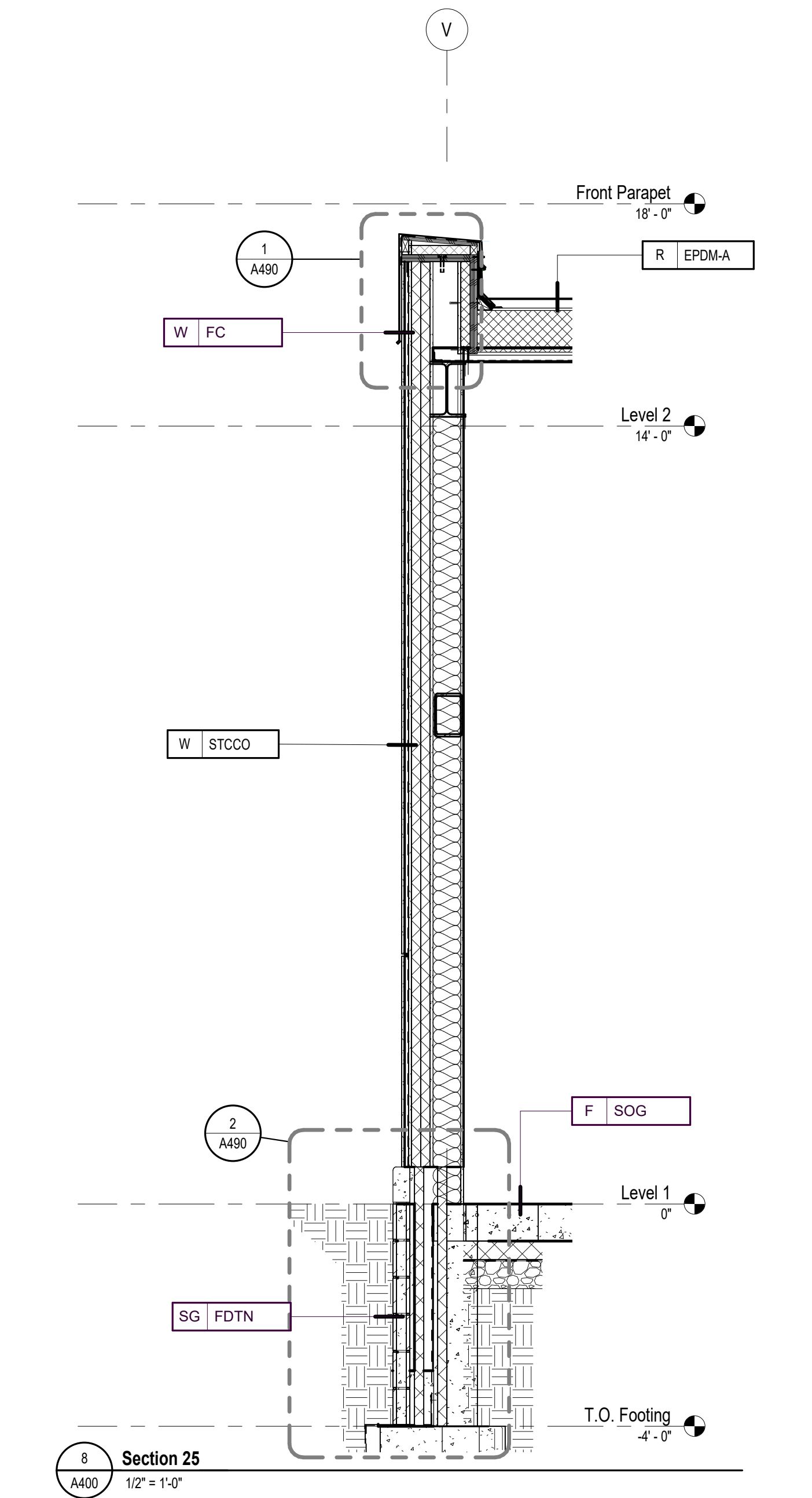
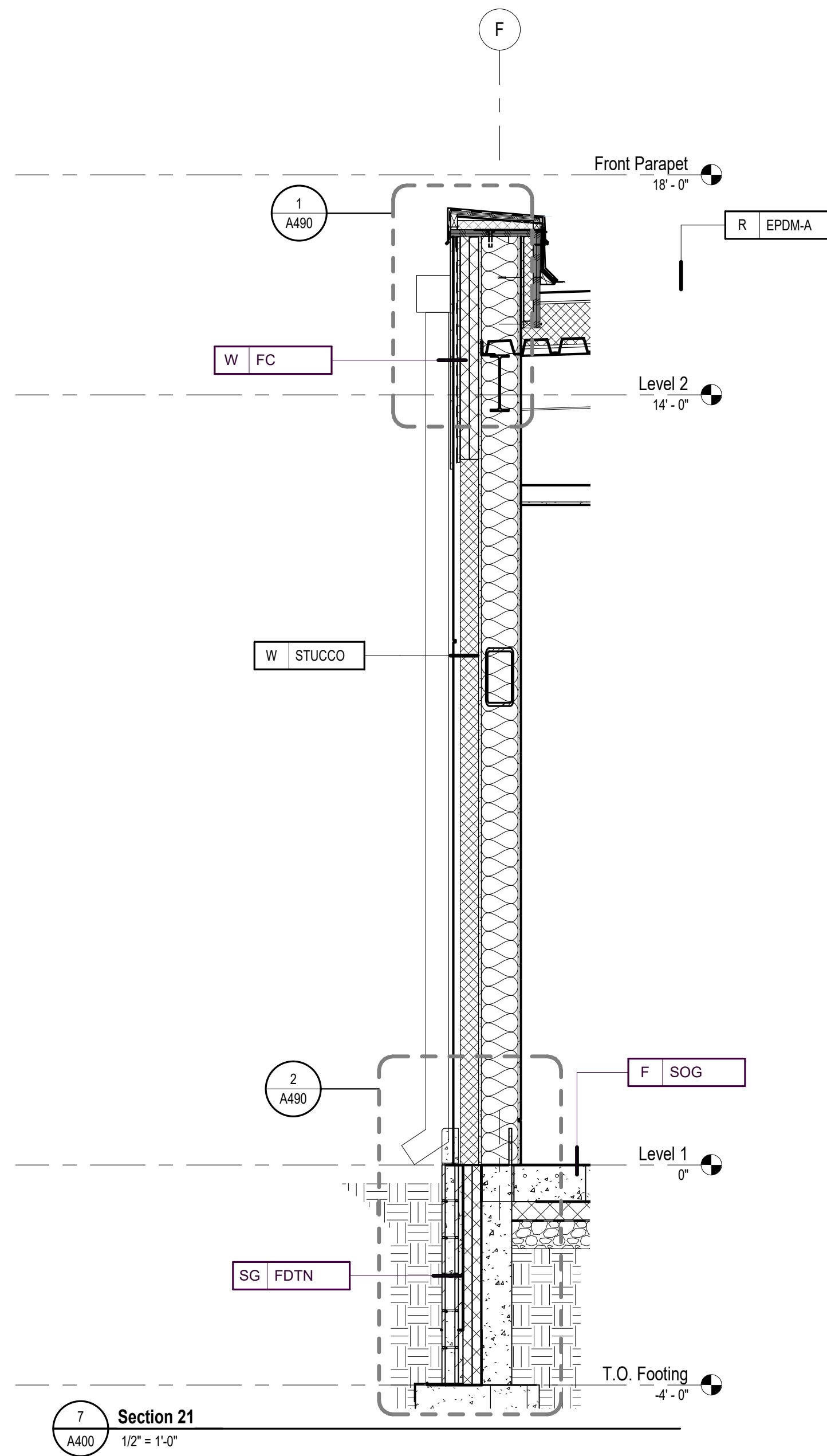
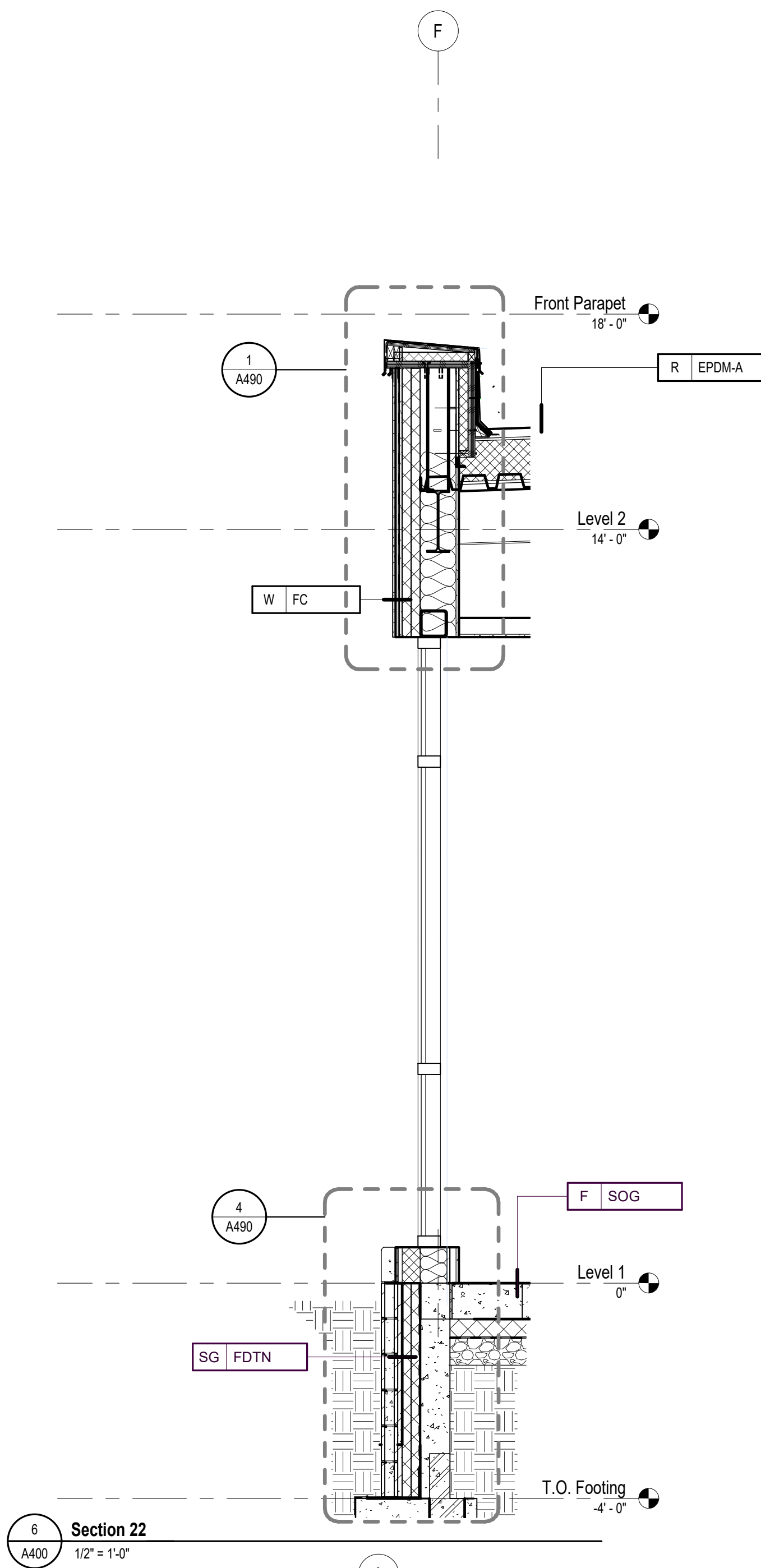
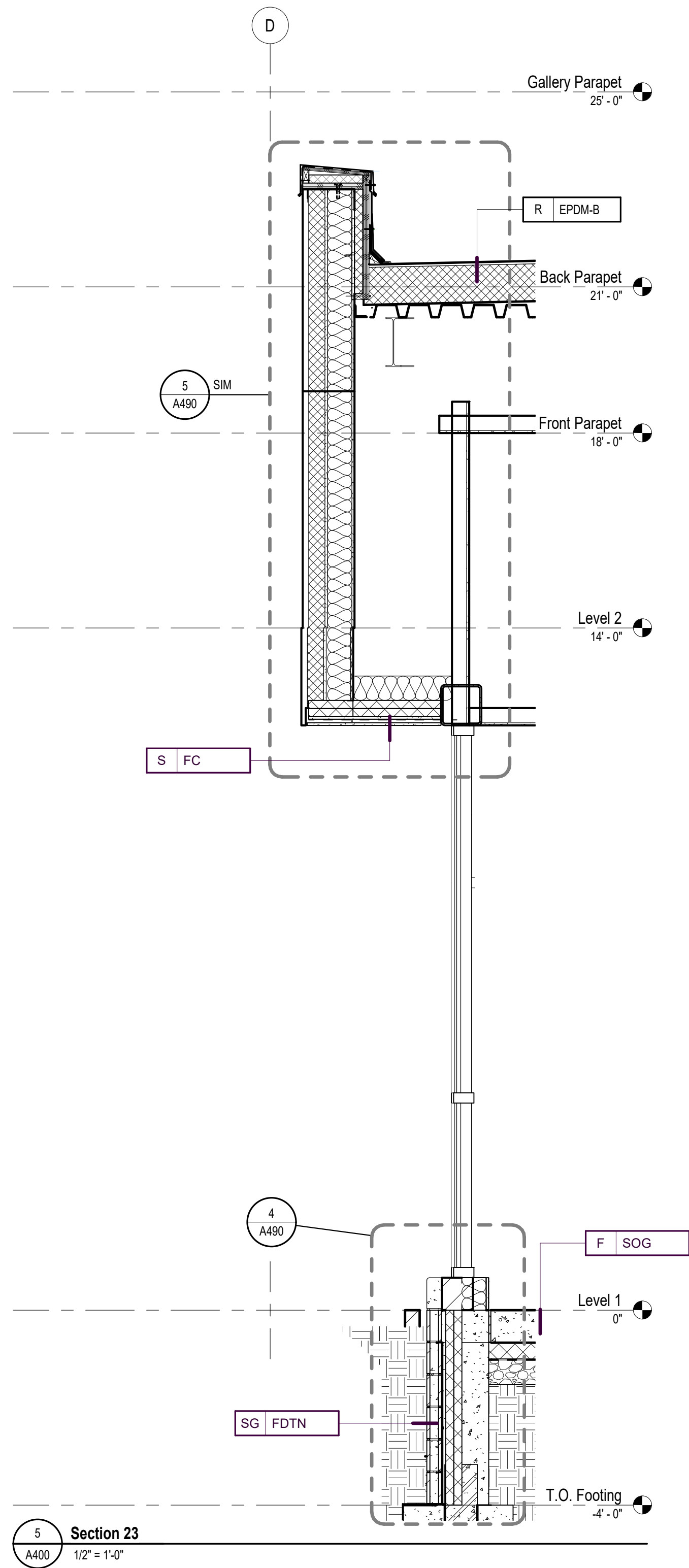
Building Sections

Sheet Number

Current Revision

A310

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Revisions

No.	Date	Description
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Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / A/C:	S Obeisson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

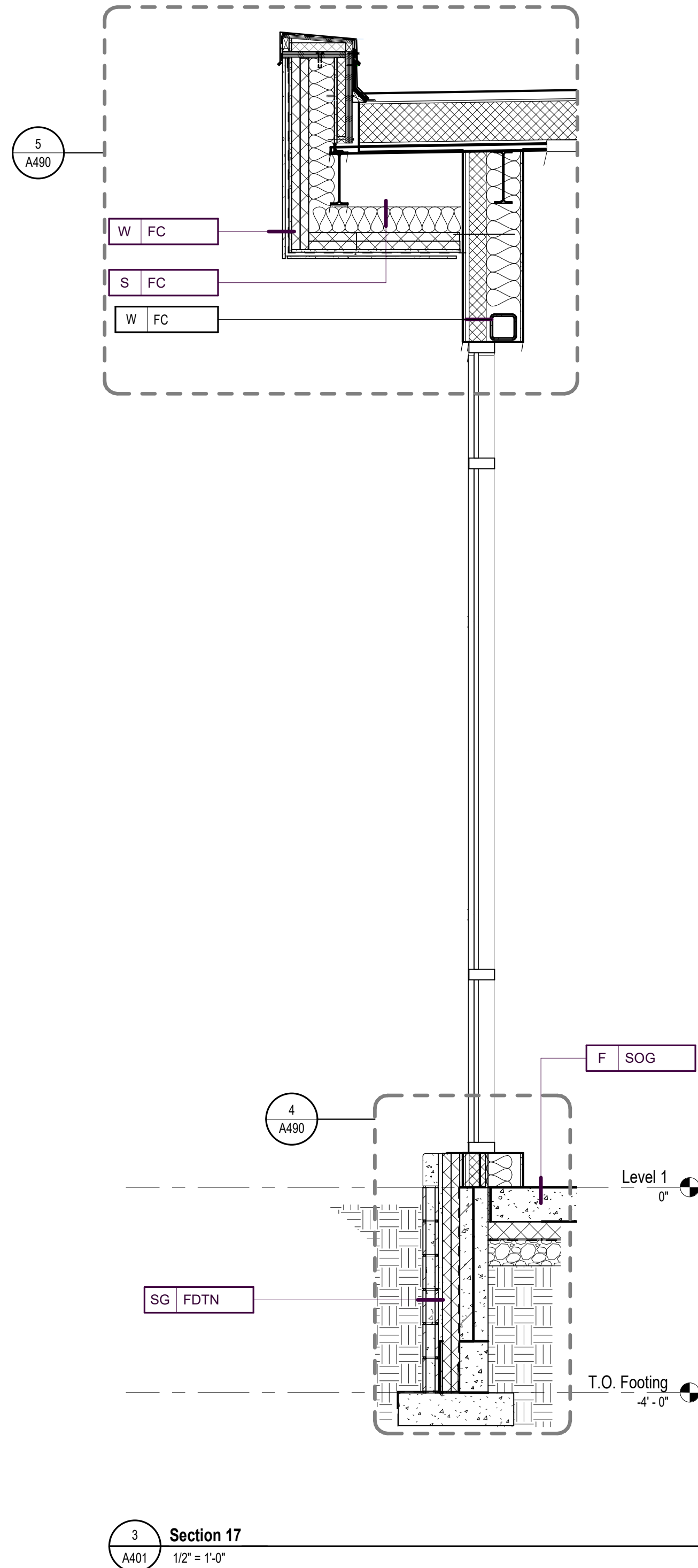
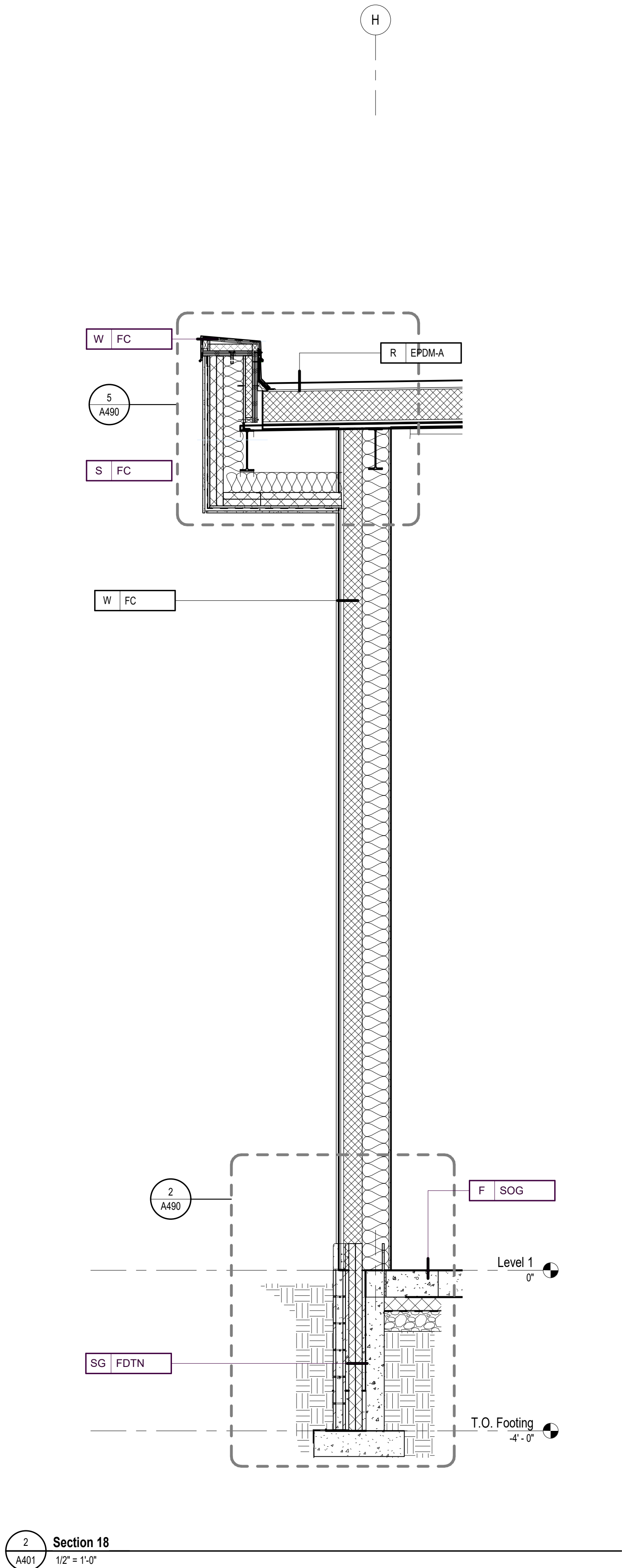
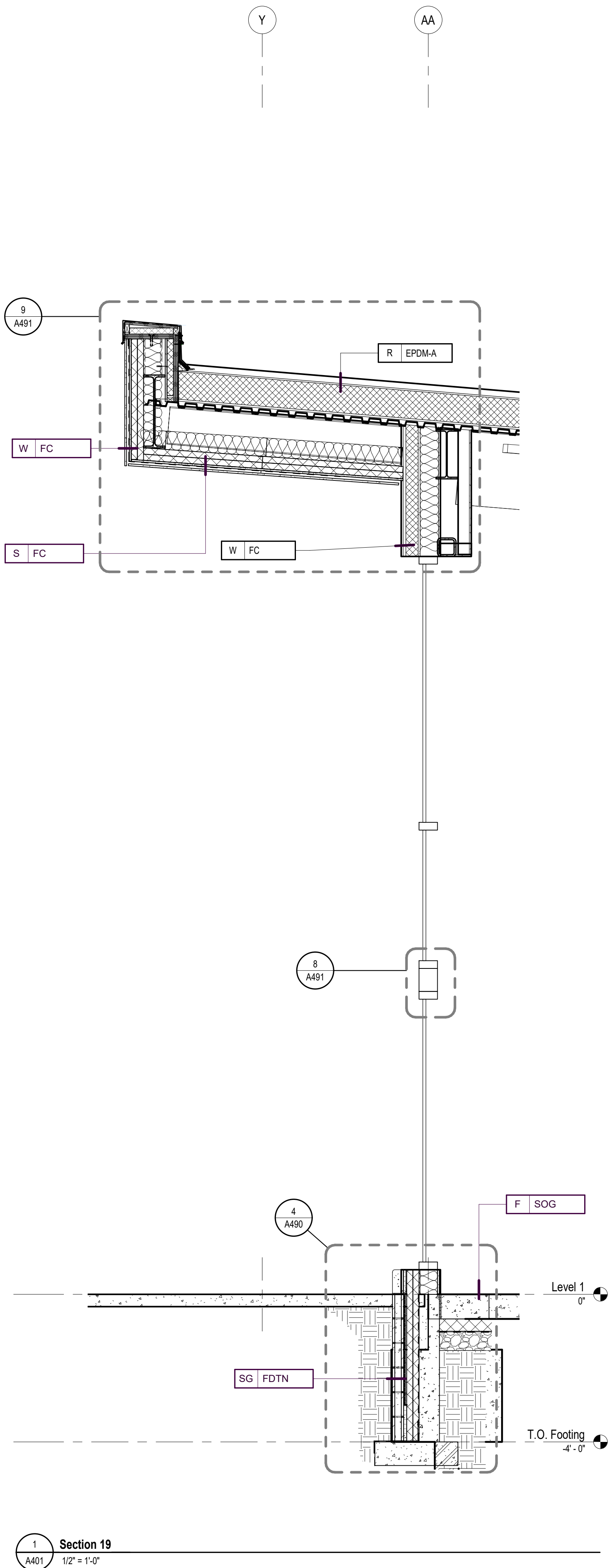
Wall Sections

Sheet Number

A400

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No. Date Description

Project Information
Phase: 90% Construction Set Date: 04/23/2021
Project No.: 18-0720 PIC / A/C: S Obeisson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

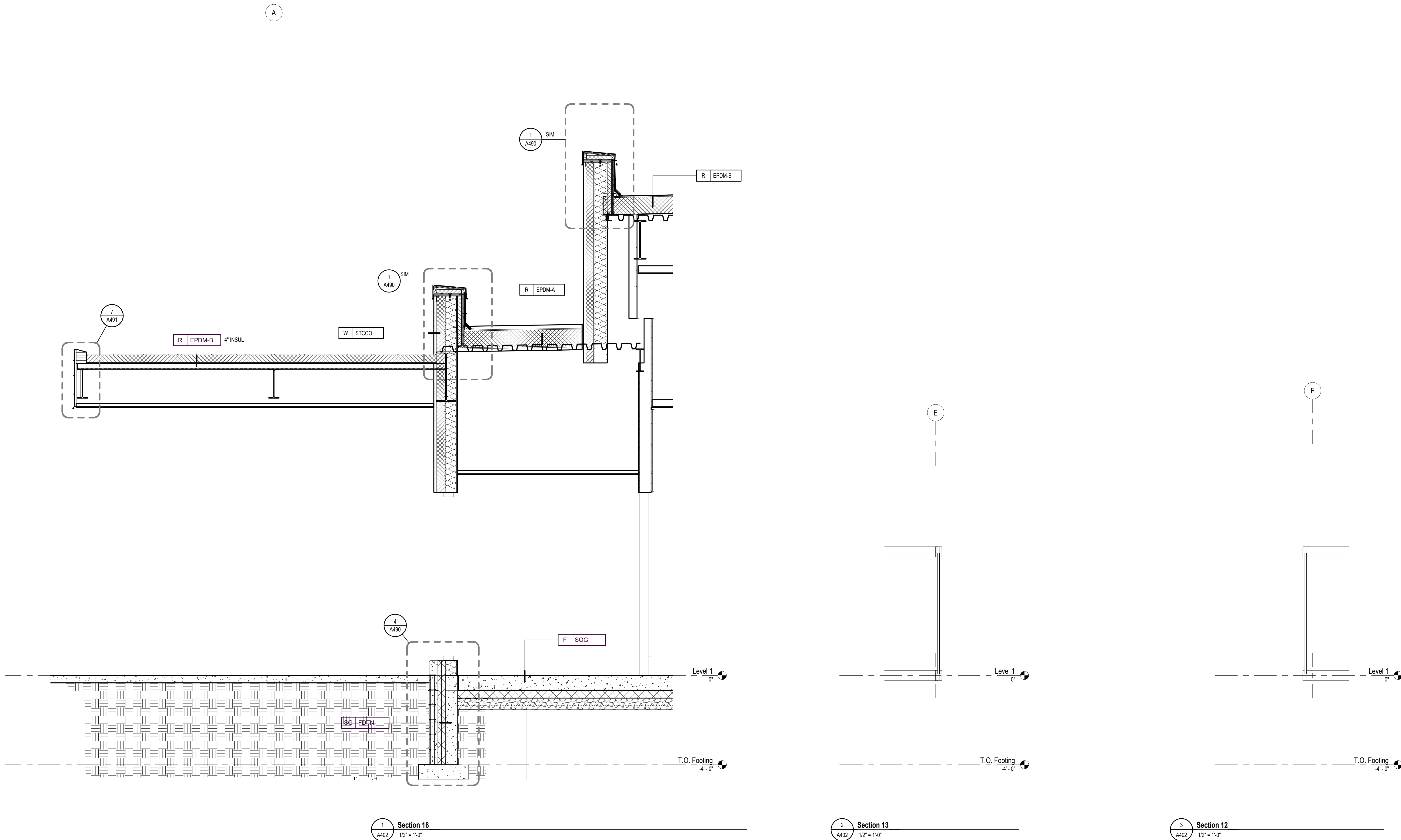
Drawing Package

Sheet Title
Wall Sections

Sheet Number Current Revision

A401

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Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / A/C:	S Obeleson

Wakan Tipi Center
4th Street East,
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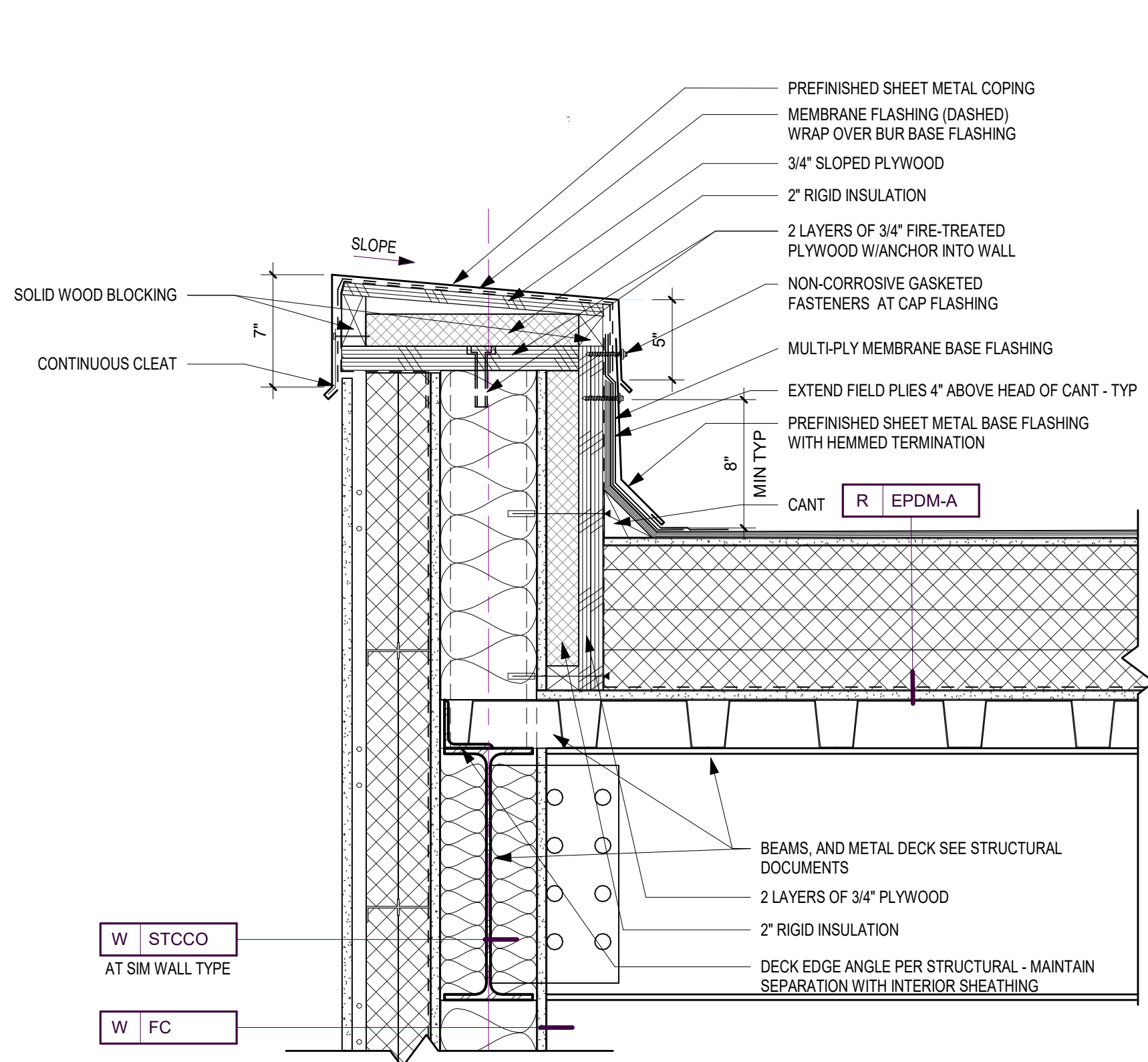
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Wall Sections

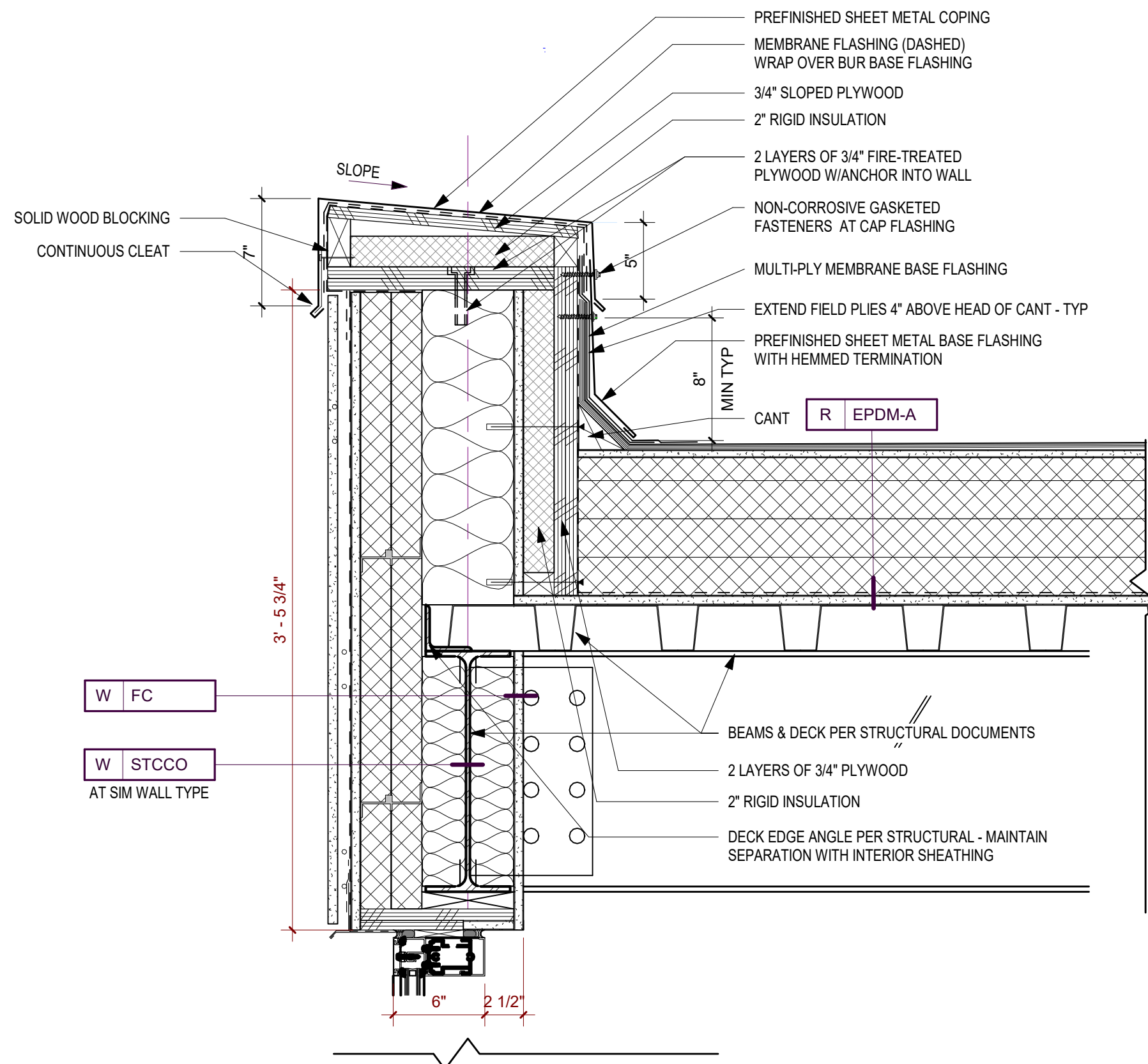
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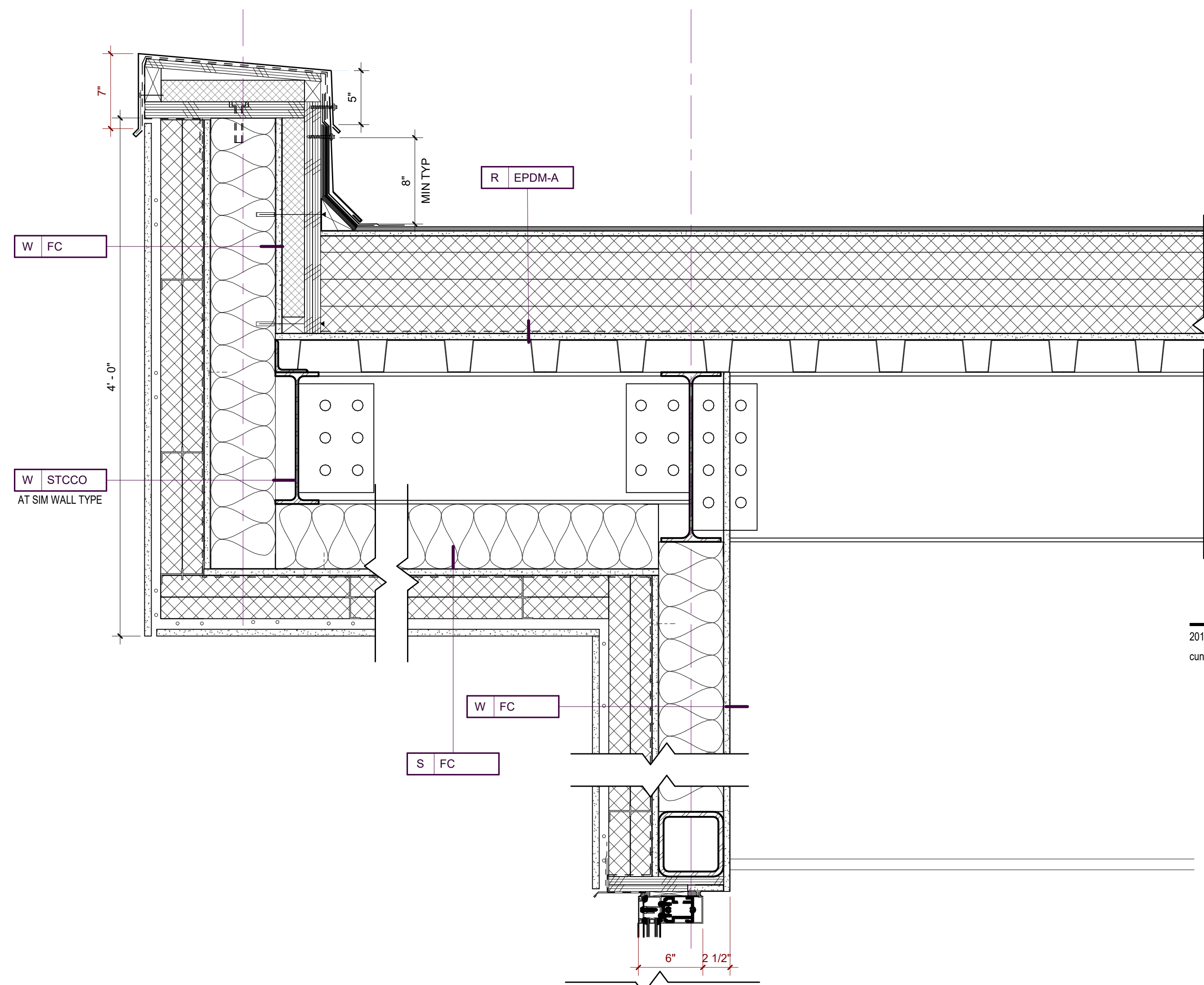
Current Revision



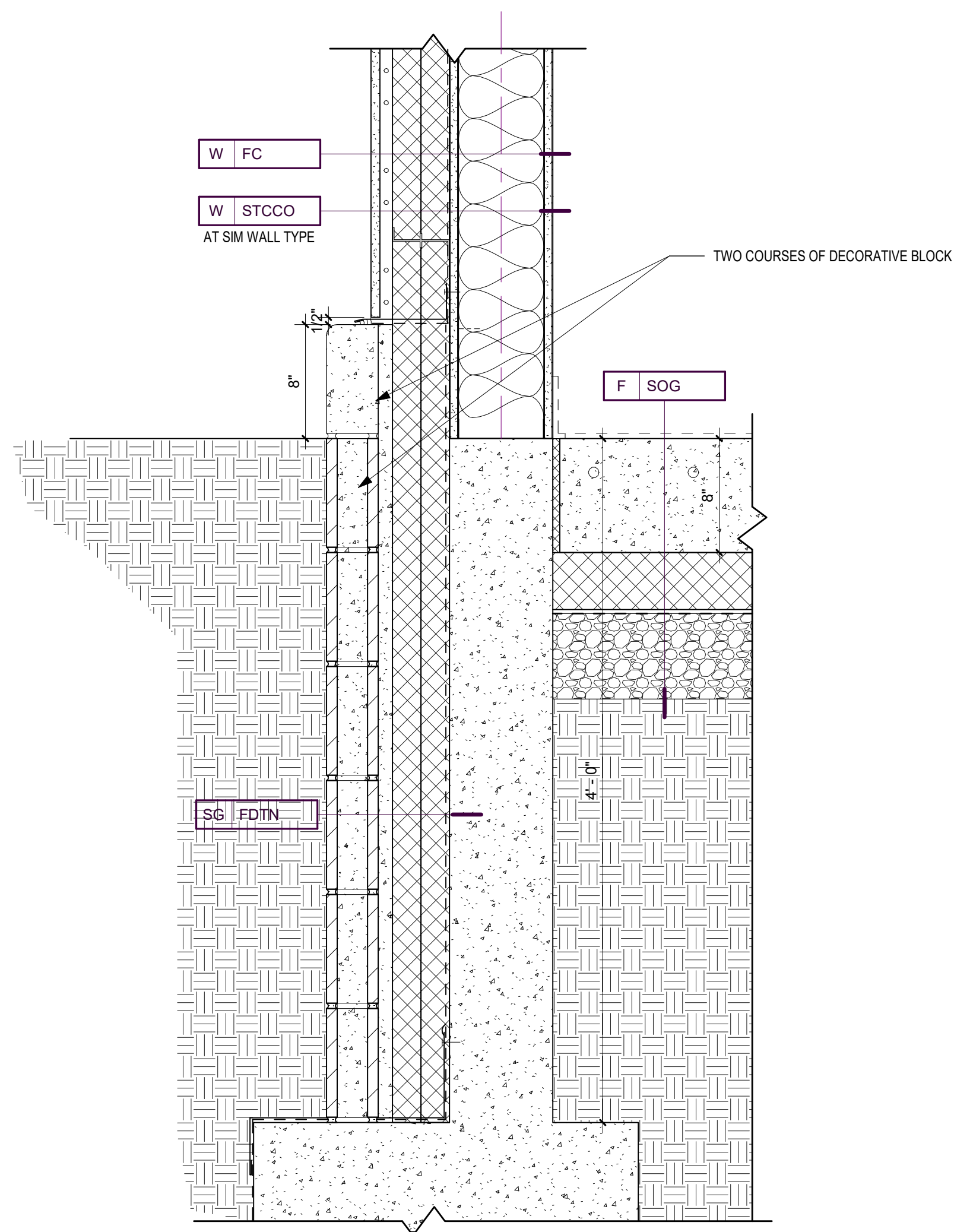
1 Section Detail at Roof to wall and Parapet
A490 1 1/2" = 1'-0"



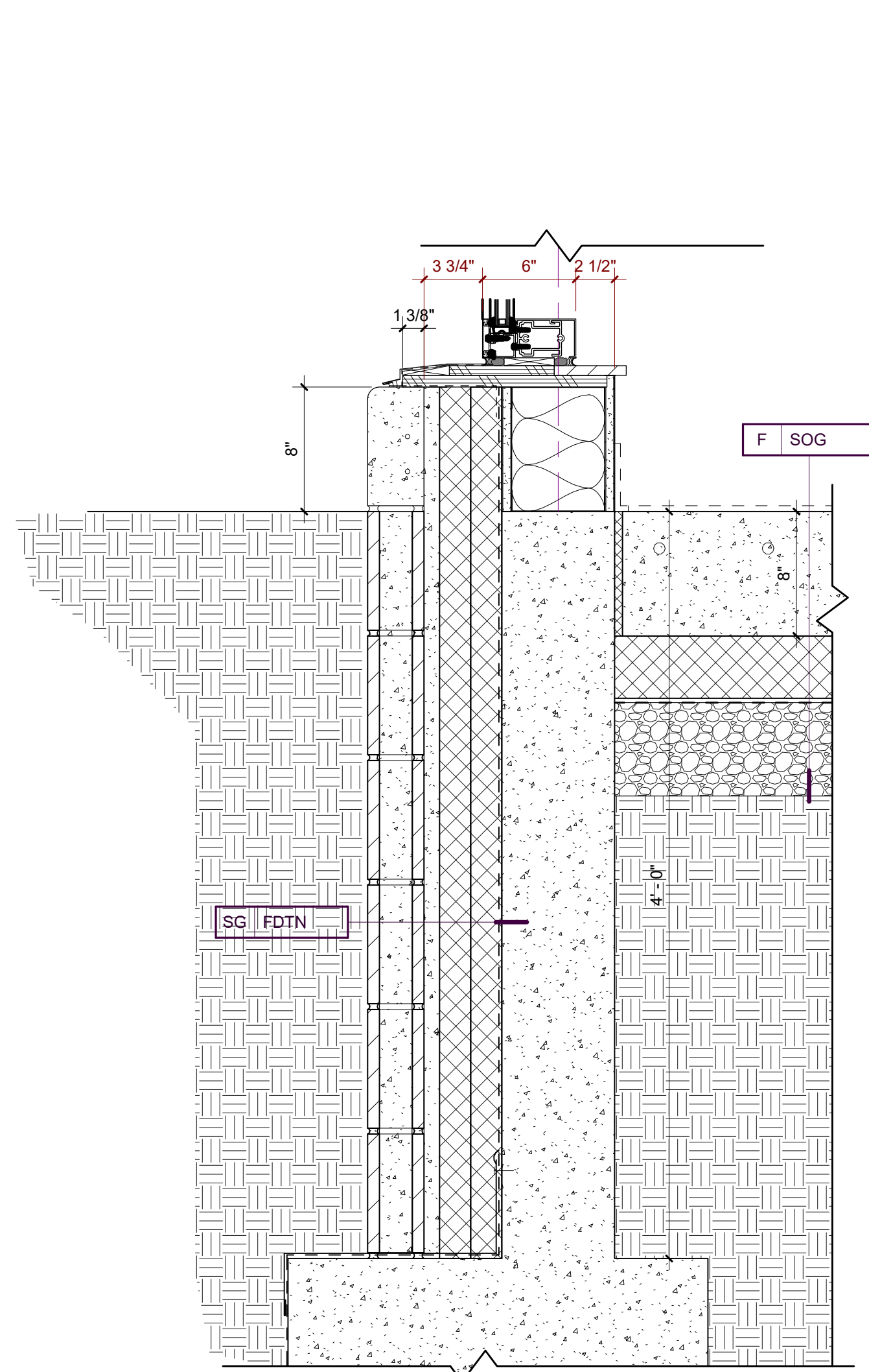
3 Section Detail at Roof to wall at window head
A490 1 1/2" = 1'-0"



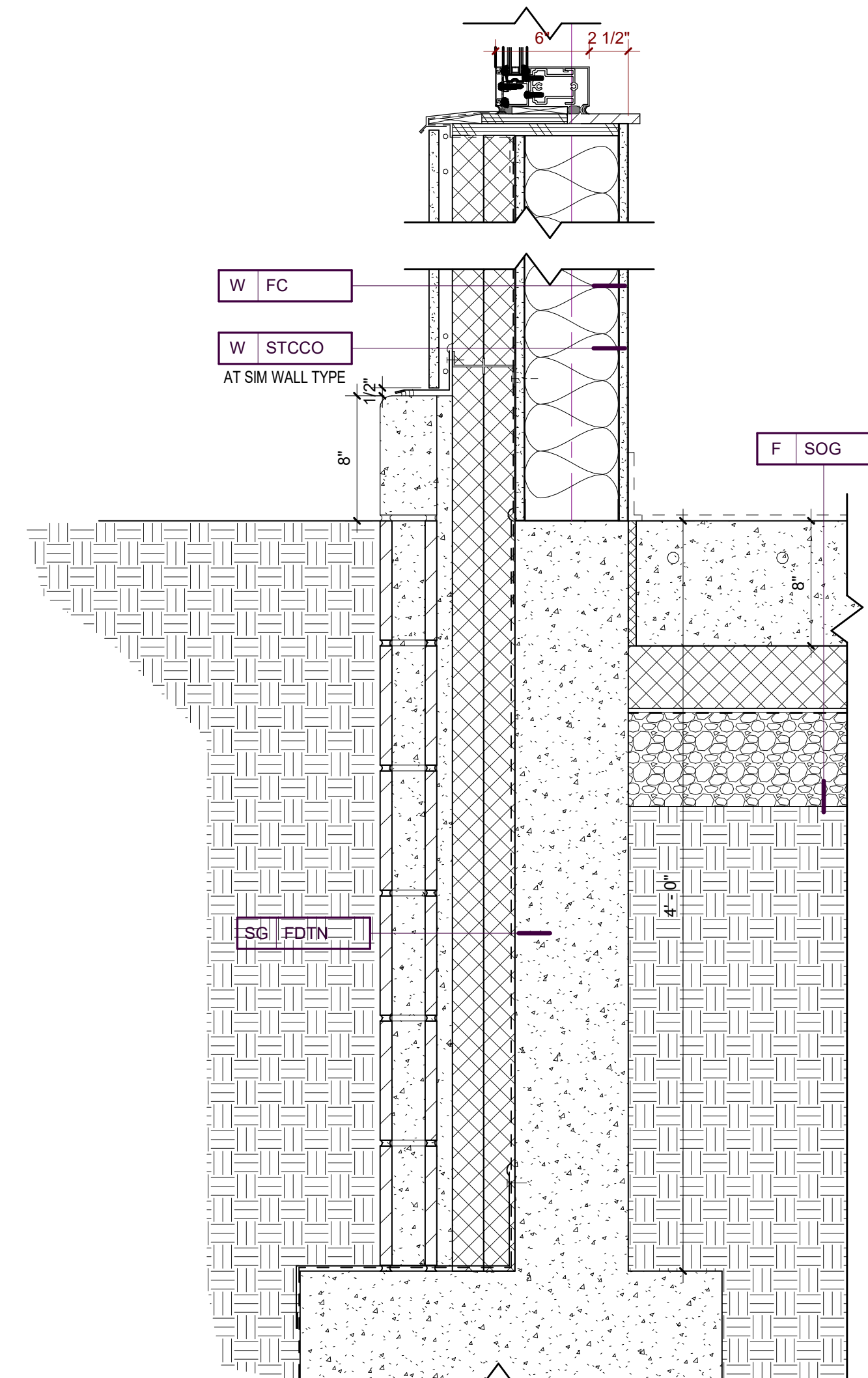
5 Section Detail at Roof to Soffit and Parapet
A490 1 1/2" = 1'-0"



2 Section Detail at Base of Wall
A490 1 1/2" = 1'-0"



4 Section Detail at Base of Window at 8" Precast base
A490 1 1/2" = 1'-0"



6 Section Detail at Base of Window in FC wall base
A490 1 1/2" = 1'-0"

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Project No.:	18-0720	PIC / AIC:	S Obeleson

Wakan Tipi Center
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Drawing Package

Sheet Title

Wall Details

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Current Revision

A490

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Project No.:	18-0720	PIC / AIC:	S Olseson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

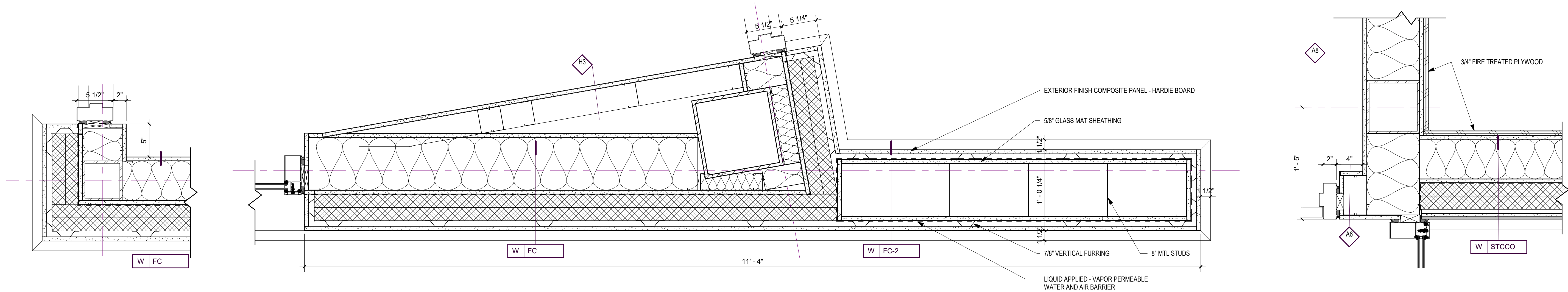
Exterior Detail

Sheet Number

A491

Current Revision

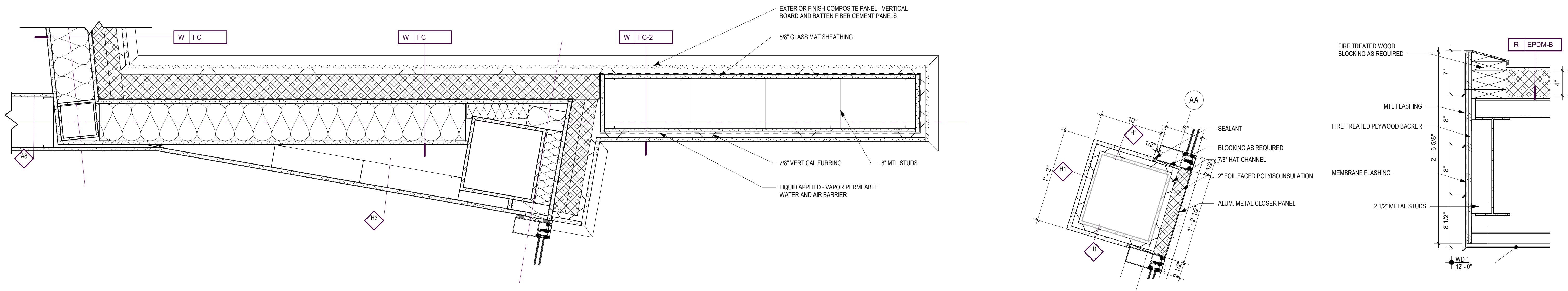
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1 Plan Detail at Exterior Wing wall
A491 1 1/2" = 1'-0"

2 Plan Detail at Exterior Wing wall by Auditorium South
A491 1 1/2" = 1'-0"

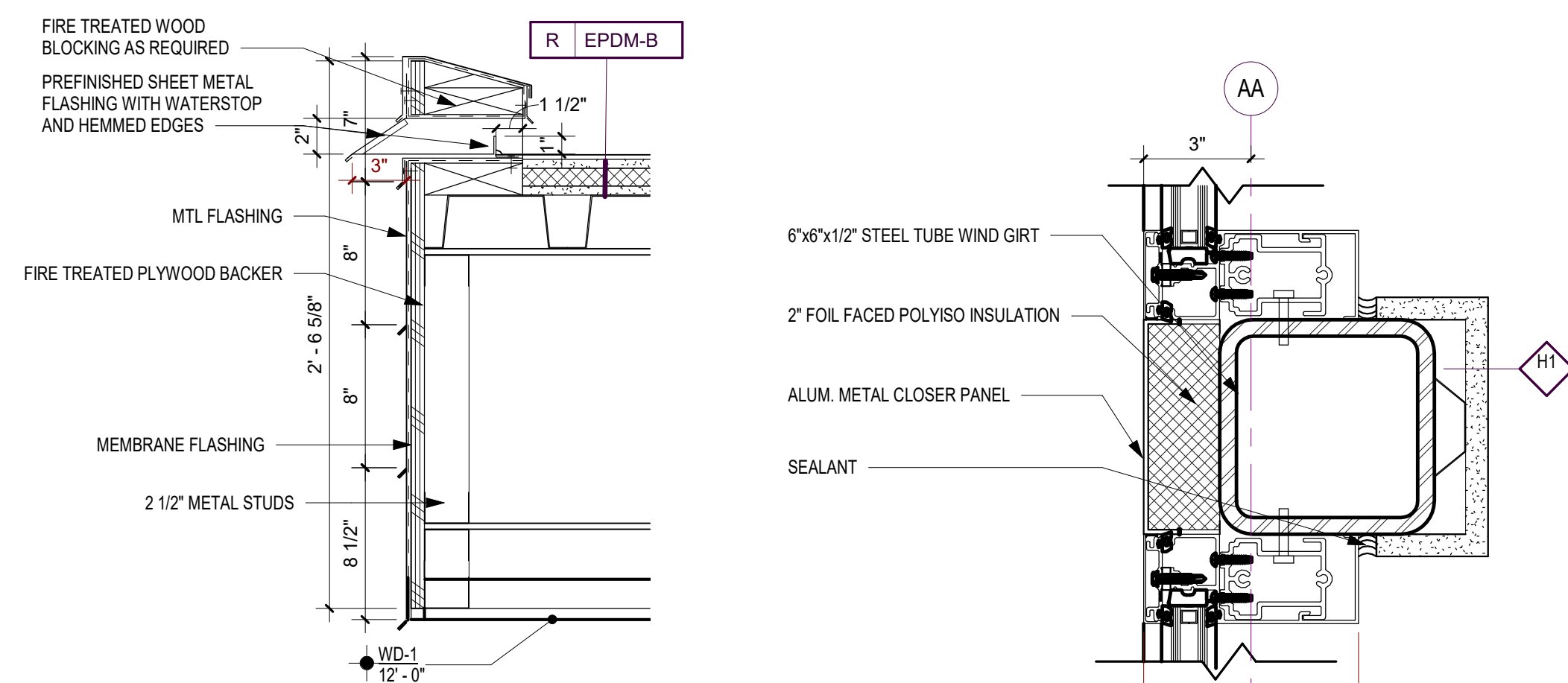
3 Plan detail at Storage
A491 1 1/2" = 1'-0"



4 Plan Detail at Exterior Wing wall by Auditorium North
A491 1 1/2" = 1'-0"

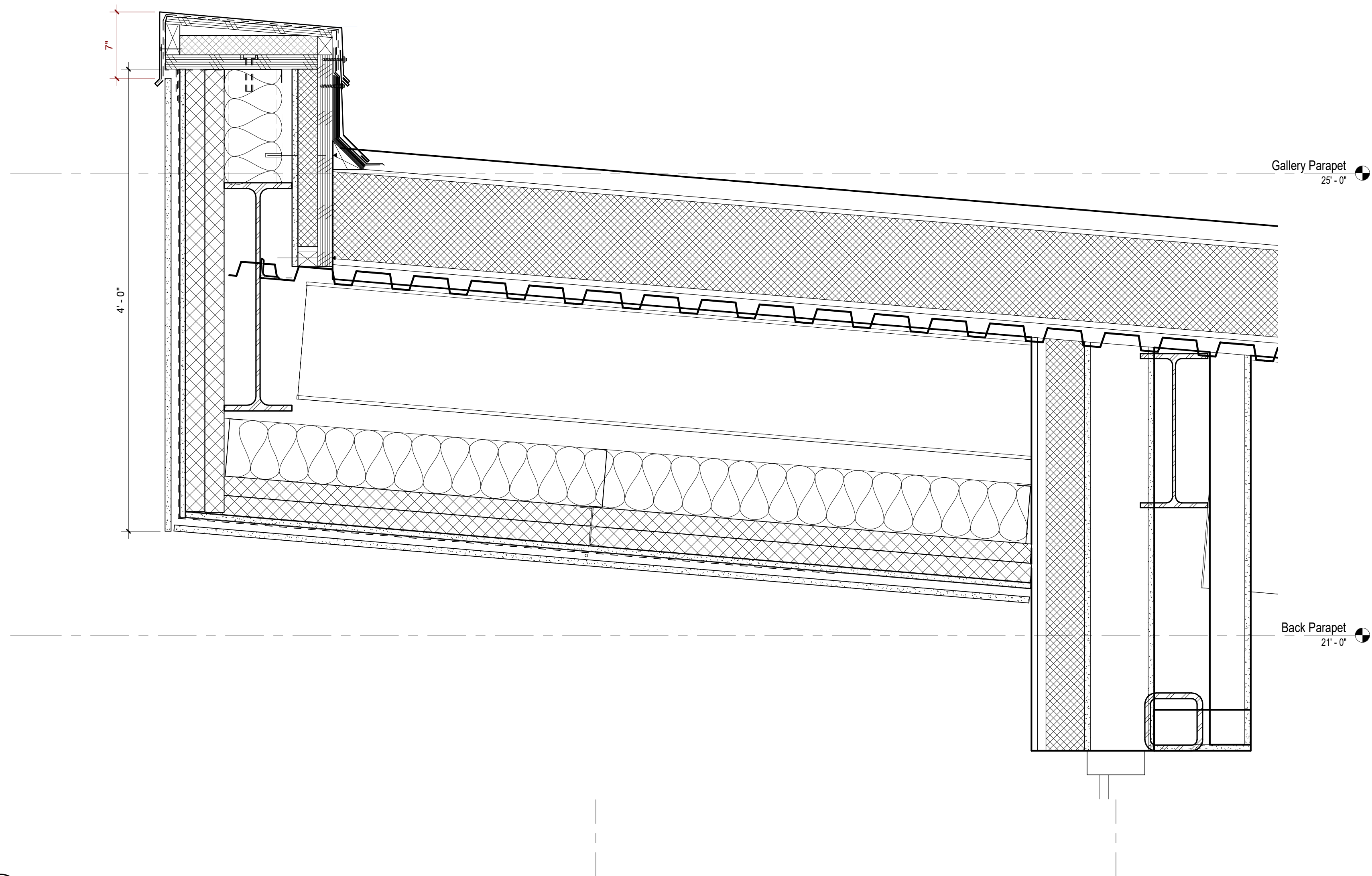
5 Plan Detail at Column wrap
A491 1 1/2" = 1'-0"

6 Section Detail at Entry Parapet
A491 1 1/2" = 1'-0"

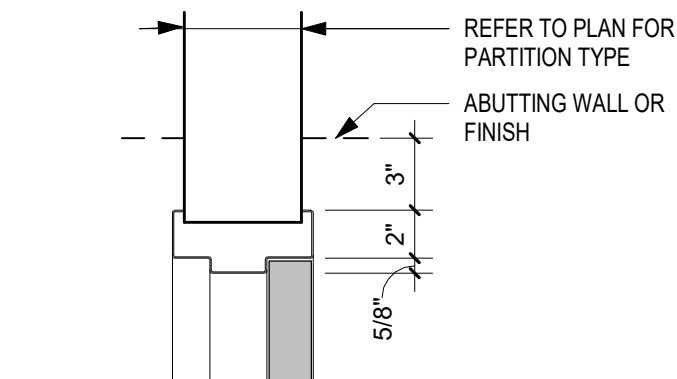


7 Section Detail at Entry Scupper
A491 1 1/2" = 1'-0"

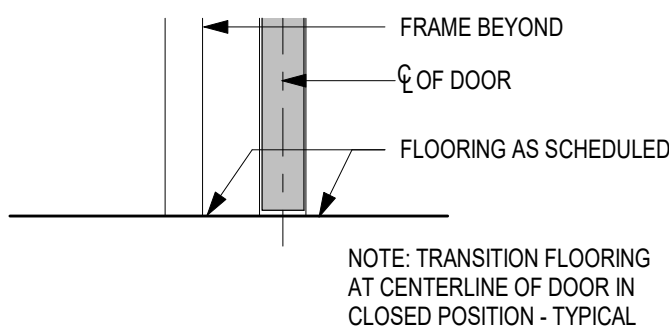
8 Wind girt section detail
A491 3" = 1'-0"



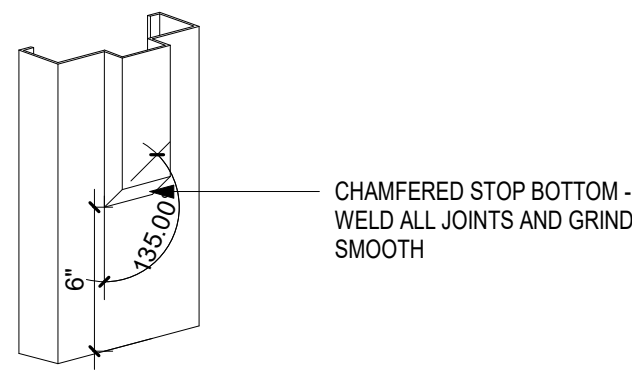
9 Section at upturned beam
A491 1 1/2" = 1'-0"



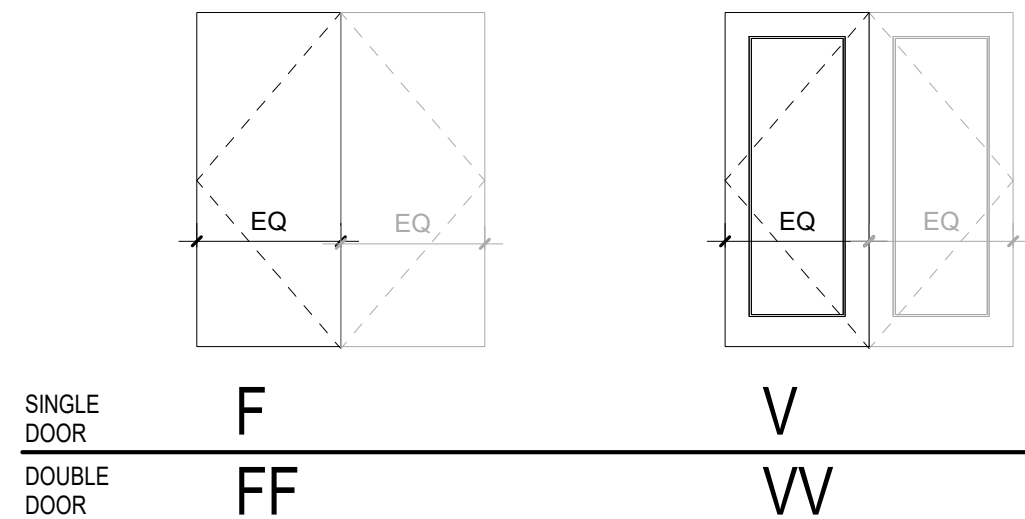
1
A600
NTS
Head and Jamb - Conventional Frame @ Partition



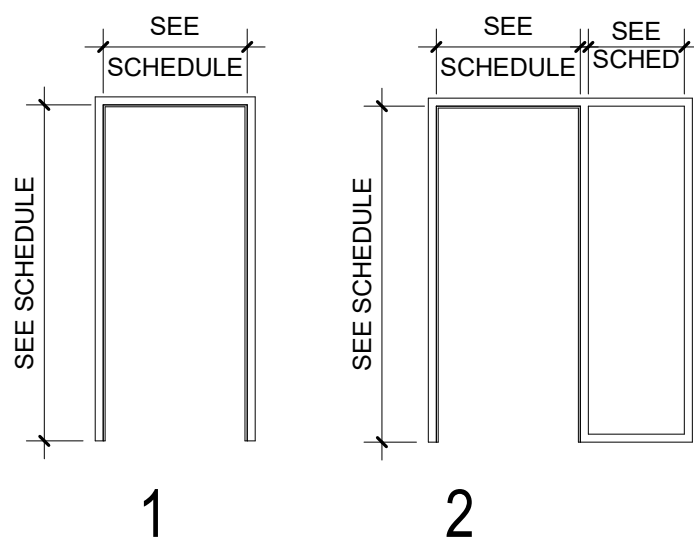
5
A600
NTS
Sill - Typical



11
A600
NTS
Hospital Stops



Panel Elevations
NTS



Frame Types
NTS

Door Type General Notes

1. ALL WOOD AND H.M. DOORS TO BE 1 3/4" THICK - U.N.O.
2. DOOR DETAILS ARE TYPICAL AS SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO THE PARTITION TYPE OR APPLICABLE WALL SECTION AND THEN TO TYPICAL DOOR DETAILS FOR APPROPRIATE DETAIL.
3. DOOR ELEVATION MARK COLUMN WITH MULTIPLE MARKS INDICATES MULTI-LEAF DOOR. ALL LEAFS ARE TO BE EQUAL WIDTH U.N.O.

Door Schedule (instance)

Num.	Fire Label	Door							Glass Type	Frame			Hardware		Details		Remarks	
		Type	Material	Finish	Leaves	Width	Height	Thick		Type	Material	Finish	Group	Head	Jamb	Threshold		
Level 1																		
100A	-	VV	Alumin/G lass	Aluminum, Anodized Bronze	2	6' - 0"	8' - 0"	1 3/4"	Insulated, Safety	Refer to Elev	Alumin	Aluminum, Anodized Bronze				Yes	Door Operator / Card Reader	
100B	-	VV		Metal - Resilient Channel	2	6' - 0"	8' - 0"	1 3/4"		Refer to Elev								
101F	-					8' - 2"	4' - 0"	2"	5									
102A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Storage Function	
103A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Push Pull	
104A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Push Pull	
108A	-	V	Alumin/G lass	Aluminum, Anodized Bronze	1	3' - 0"	8' - 0"	1 3/4"	Insulated, Safety	Refer to Elev	Alumin	Aluminum, Anodized Bronze				Yes	Door Operator / Card Reader	
109A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Storage Function / Card Reader	
110A	-	FF	Wood	Stain TBD	2	6' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Storage Function	
111A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Classroom Function	
111B	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Classroom Function	
112A	-	F	HM	Paint TBD	2	8' - 0"	9' - 0"	1 3/4"	1	HM	Paint TBD					Yes	Storage Function	
112B	-	F	HM	Paint TBD	2	8' - 0"	9' - 0"	1 3/4"	1	HM	Paint TBD					Yes	Storage Function	
116A	-	FF	Wood	Stain TBD	2	4' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Storage Function	
118A	-	F	Wood	Stain TBD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	Paint TBD						Card Reader	
120A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	Safety	2	HM	Paint TBD					Classroom Function	
120B	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	Safety	2	HM	Paint TBD					Classroom Function	
120C	-	FF	Wood	Stain TBD	2	6' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Exit Device, Concealed Vert Rods	
120X	-	-	-	Paint TBD	2	6' - 0"	19' - 4"	1 3/4"	-	-	-	Paint TBD					Door By Moveable Partition	
121A	-	FF	Wood	Stain TBD	2	6' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Exit Device, Concealed Vert Rods	
121B	-	V	Alumin/G lass	Aluminum, Anodized Bronze	1	3' - 0"	8' - 0"	1 3/4"	Insulated, Safety	Refer to Elev	Alumin	Aluminum, Anodized Bronze				Yes	Exit Device	
121C	-	V	Alumin/G lass	Aluminum, Anodized Bronze	1	3' - 0"	8' - 0"	1 3/4"	Insulated, Safety	Refer to Elev								
130A	-	VV	Alumin/G lass	Aluminum, Anodized Bronze	2	6' - 0"	8' - 0"	1 3/4"		Refer to Elev	Alumin	Aluminum, Anodized Bronze				Yes	Door Operator / Card Reader	
131A	-	V	Wood/Gl ass	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"		1	HM	Paint TBD					Classroom Function	
131B	-	F	Wood/Gl ass	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"		1	HM	Paint TBD					Card Reader	
132A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Privacy with indicator	
133A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Electric cypher, battery operated	
134A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Card Reader	
137A	-	F	Wood	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Privacy with indicator	
138A	-	V1	Wood/Gl ass	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"	1	HM	Paint TBD						Card Reader	
139A	-	V1	Wood/Gl ass	Stain TBD	1	3' - 0"	8' - 0"	1 3/4"		1	HM	Paint TBD					Office Function	
141A	-	F	Wood	Stain TBD	1	2' - 8"	8' - 0"	1 1/2"	3	Wood	Stain TBD						Storage Function	

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Project No.: 18-0720 PIC / A/C: S Obeleson

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4th Street East,
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Drawing Package

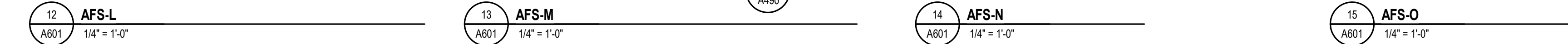
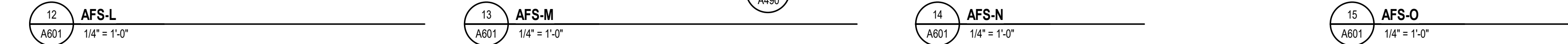
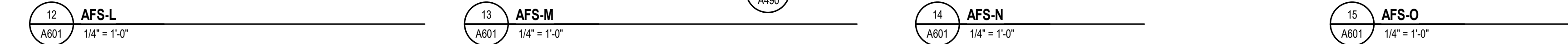
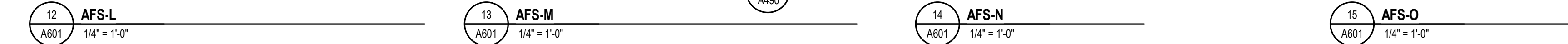
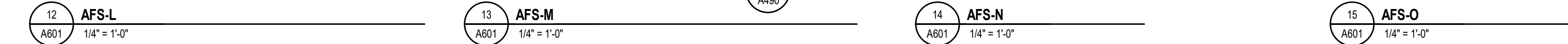
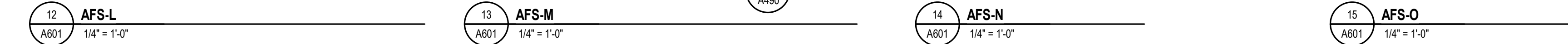
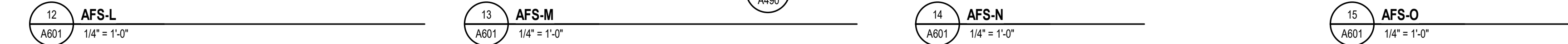
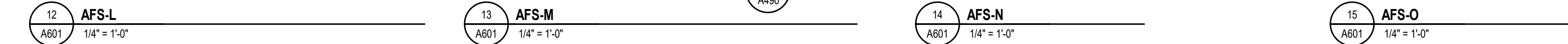
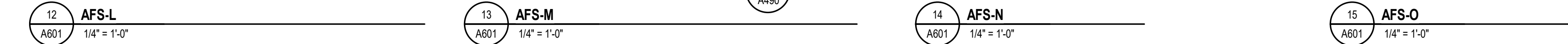
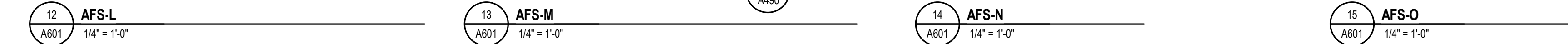
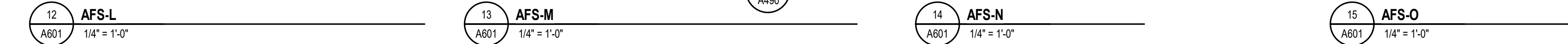
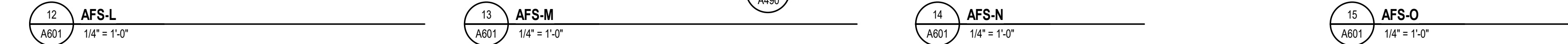
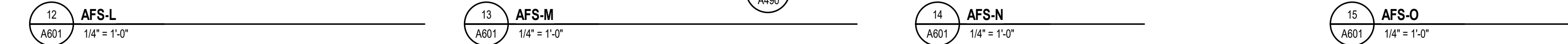
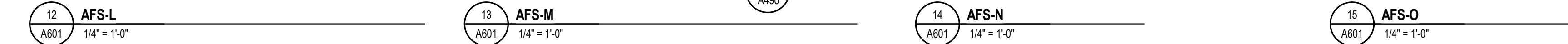
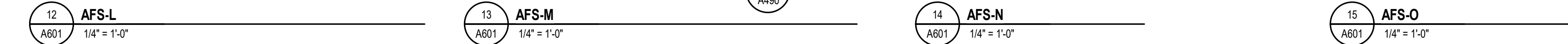
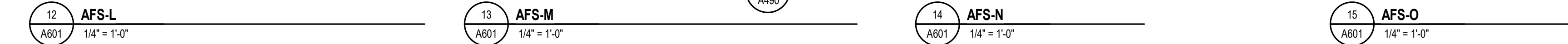
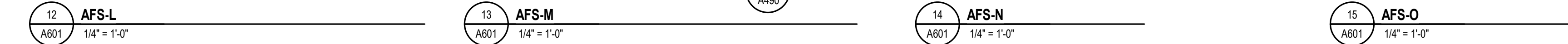
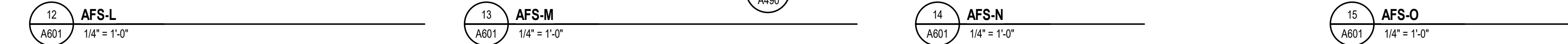
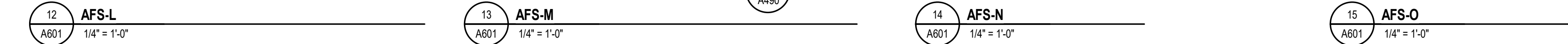
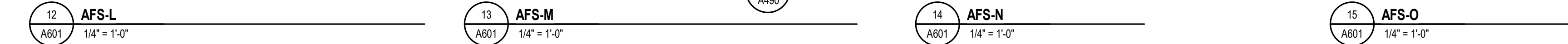
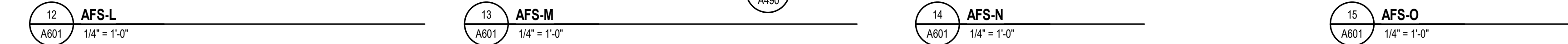
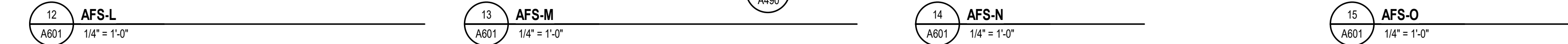
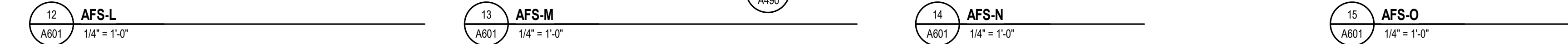
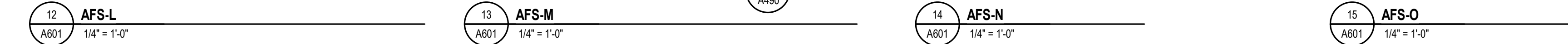
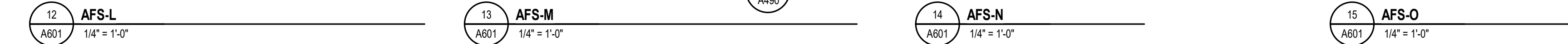
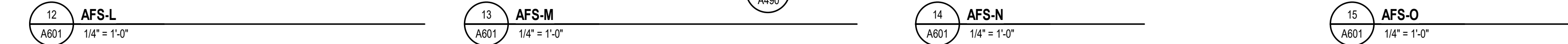
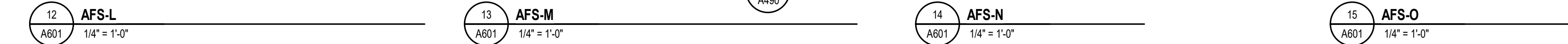
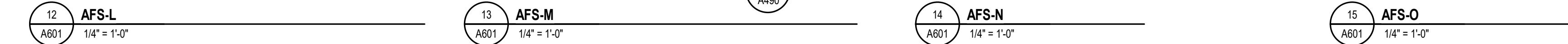
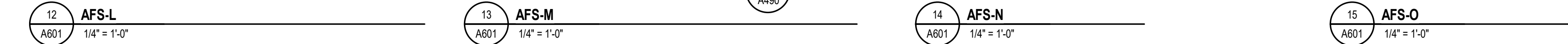
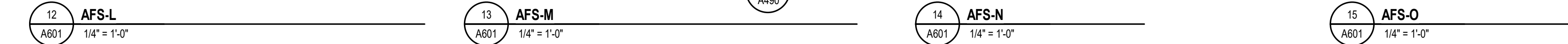
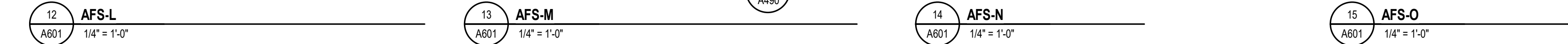
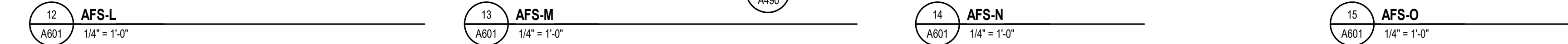
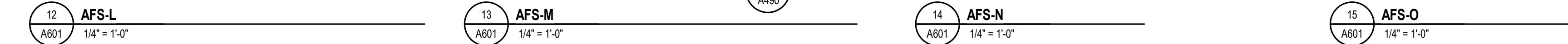
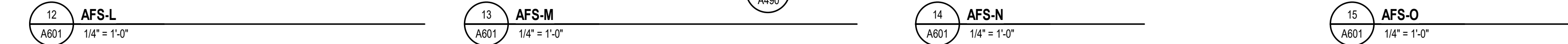
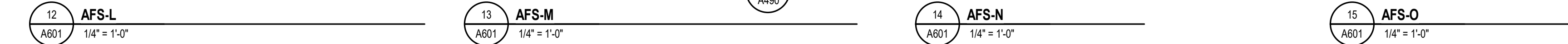
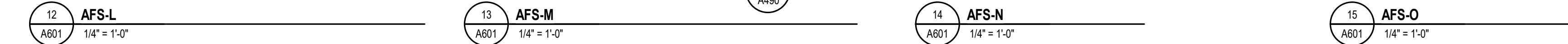
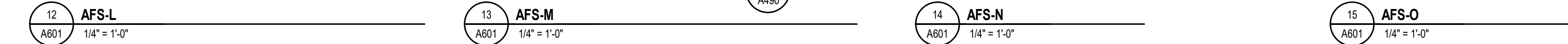
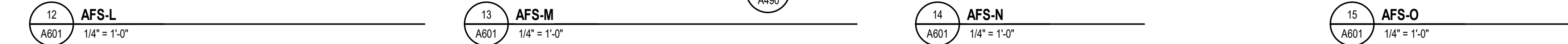
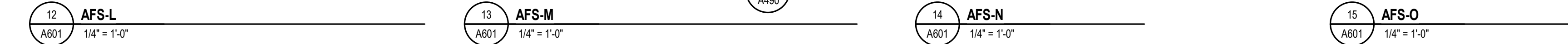
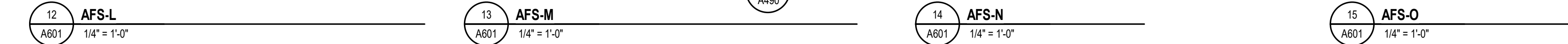
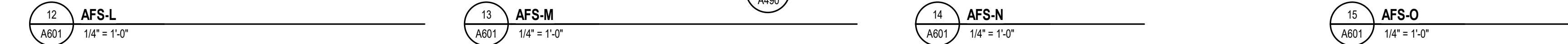
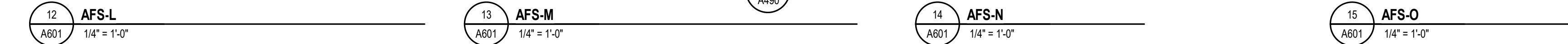
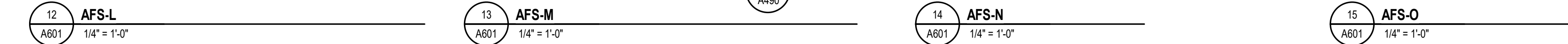
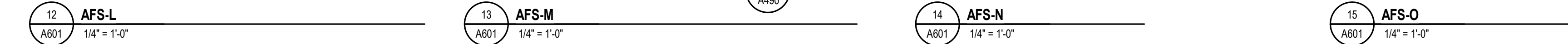
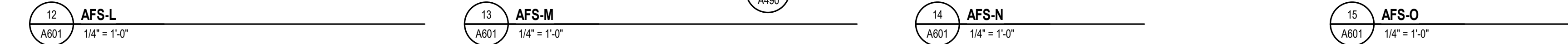
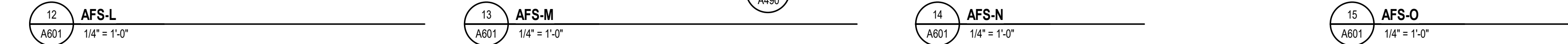
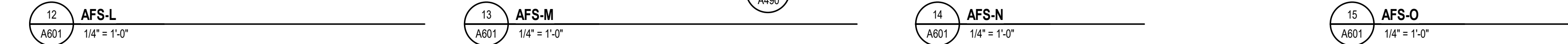
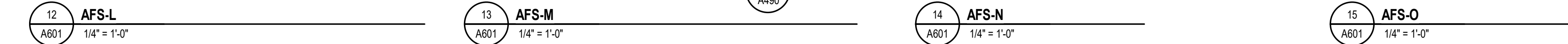
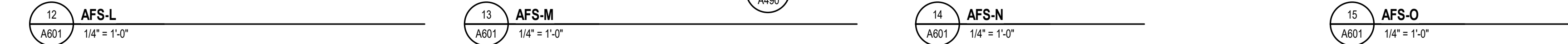
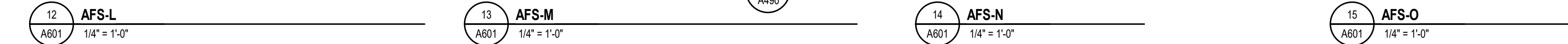
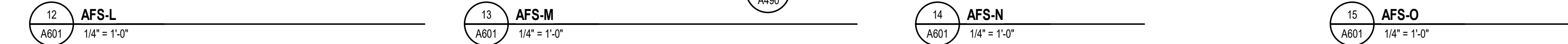
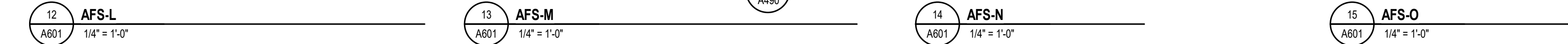
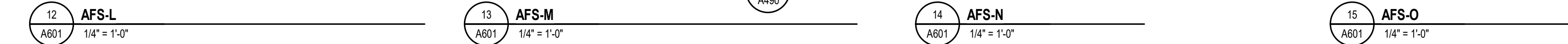
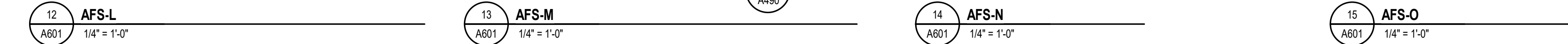
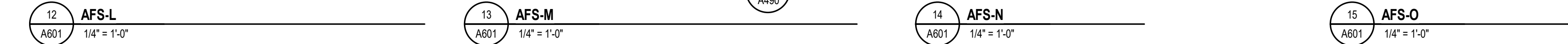
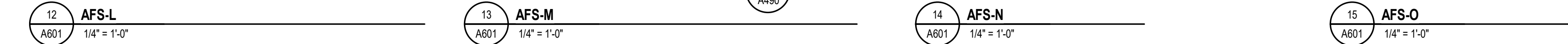
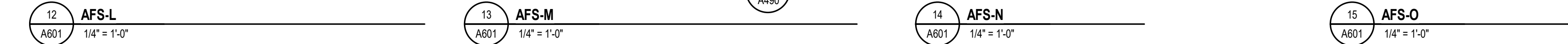
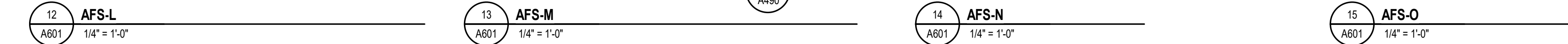
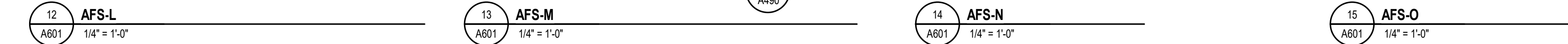
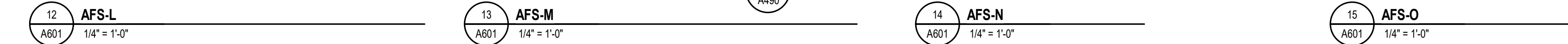
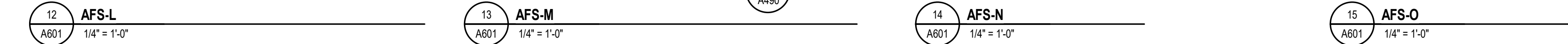
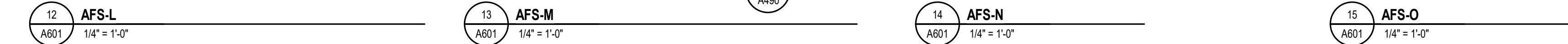
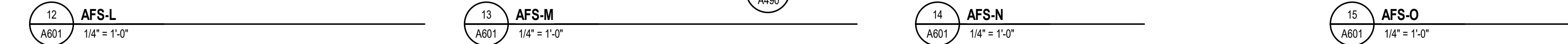
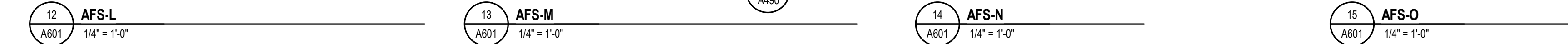
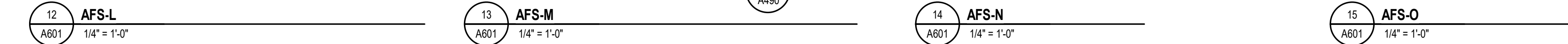
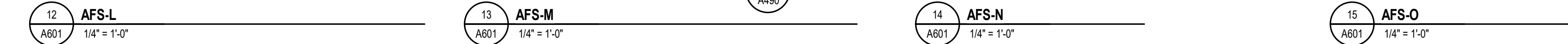
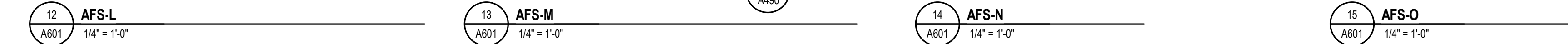
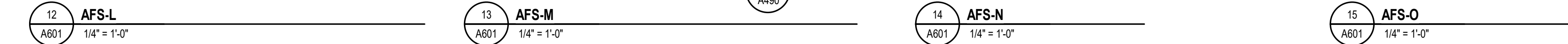
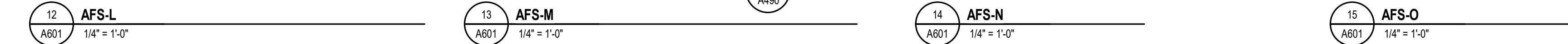
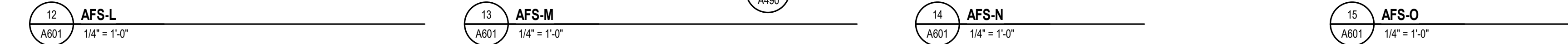
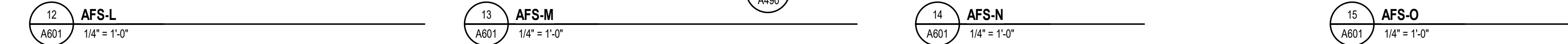
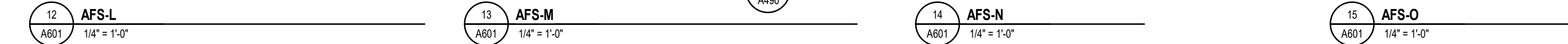
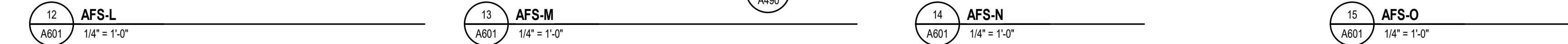
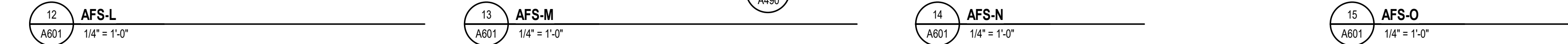
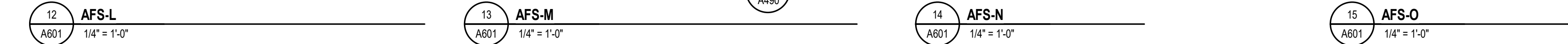
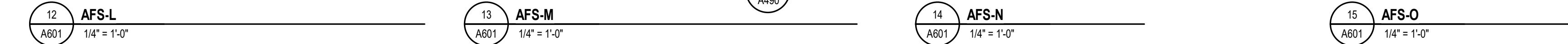
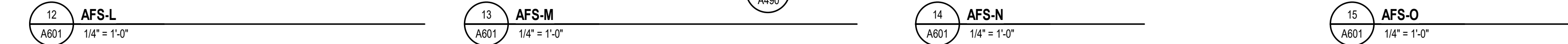
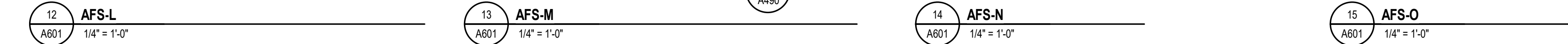
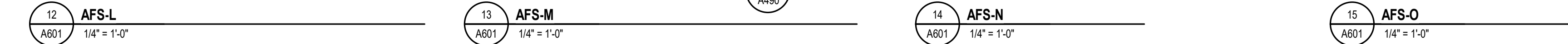
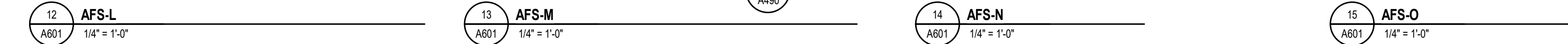
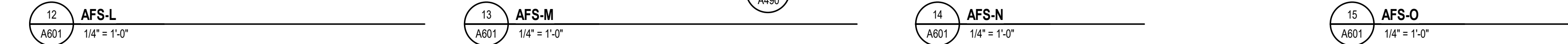
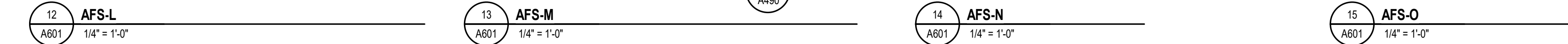
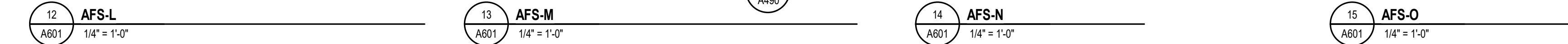
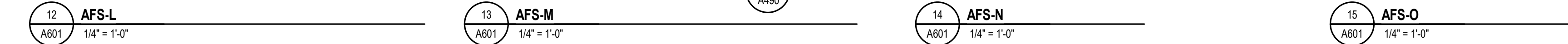
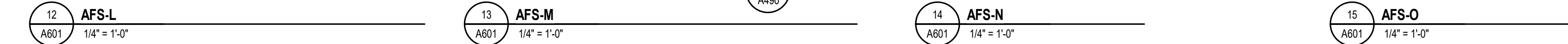
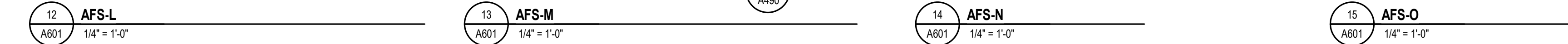
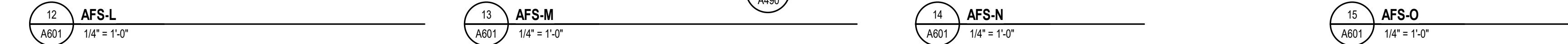
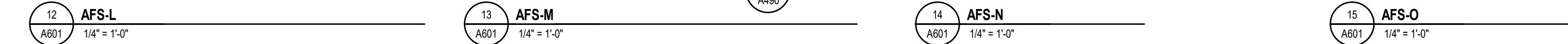
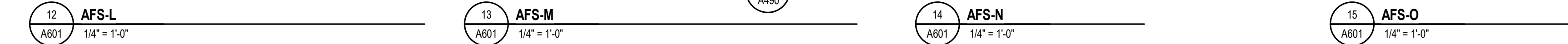
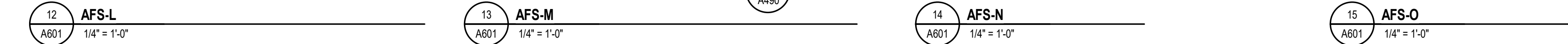
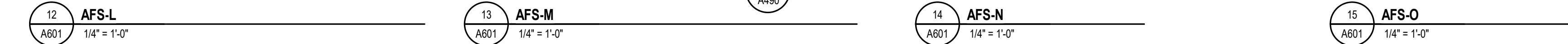
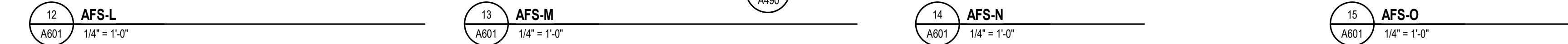
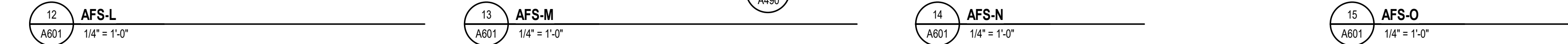
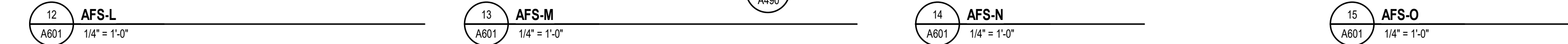
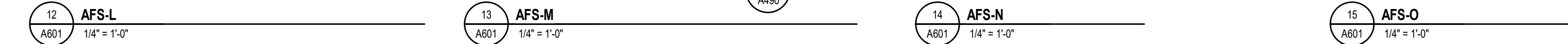
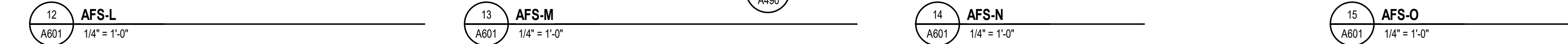
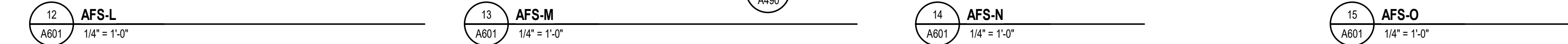
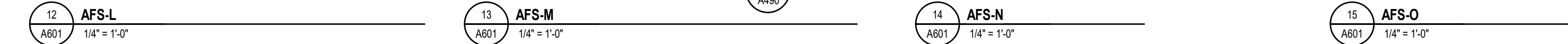
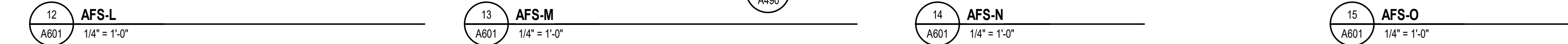
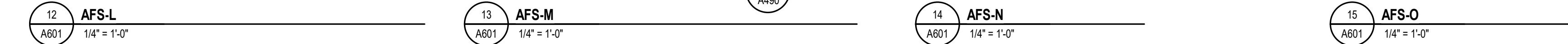
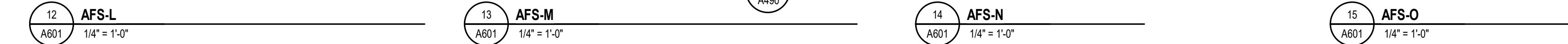
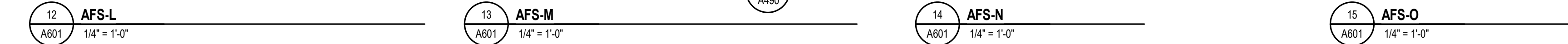
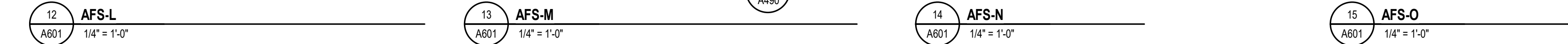
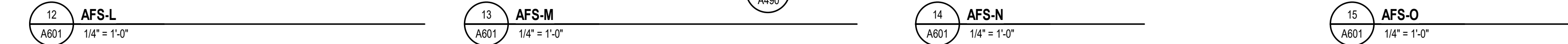
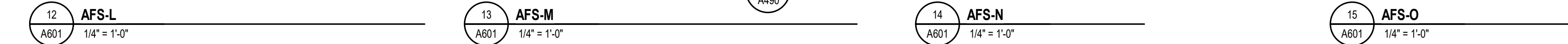
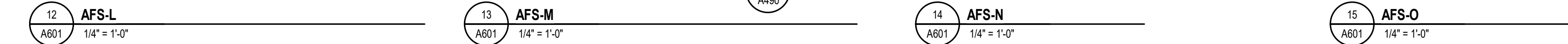
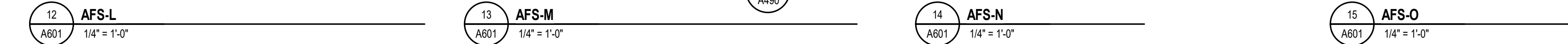
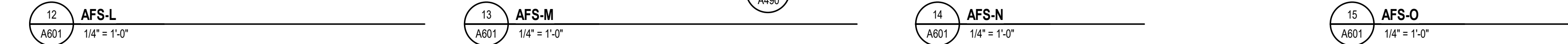
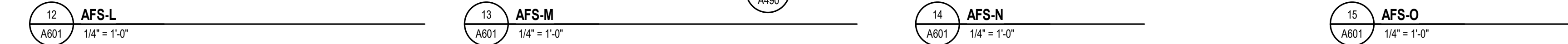
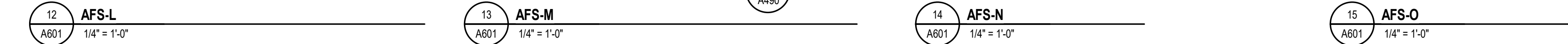
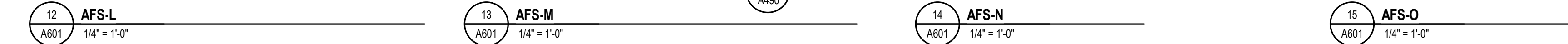
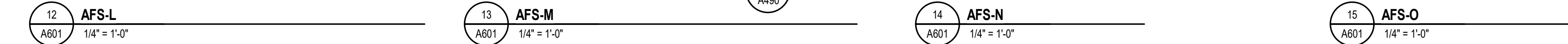
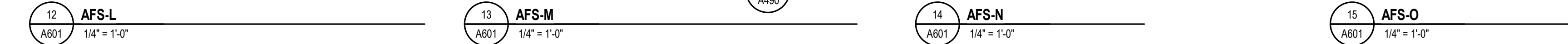
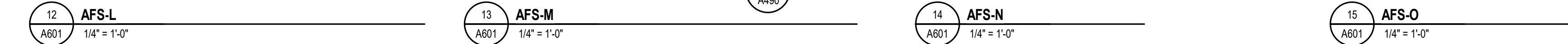
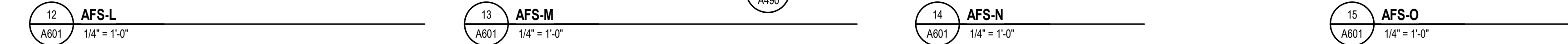
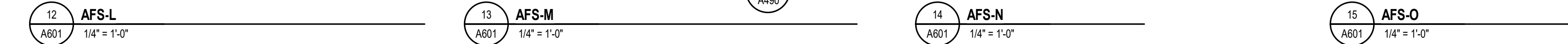
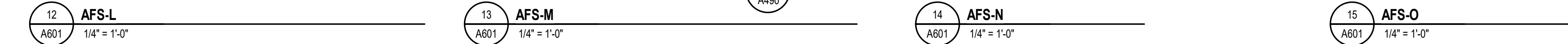
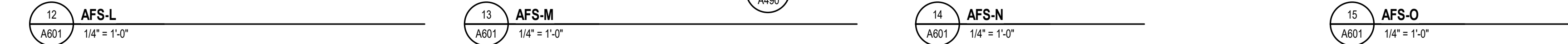
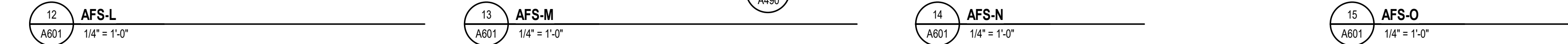
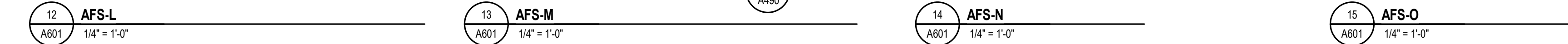
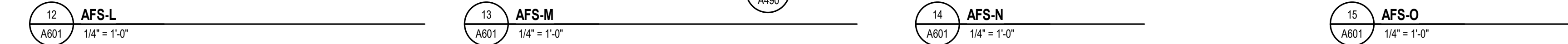
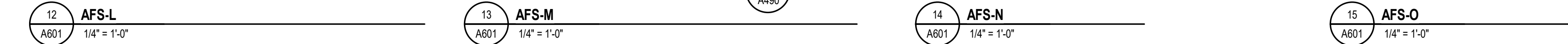
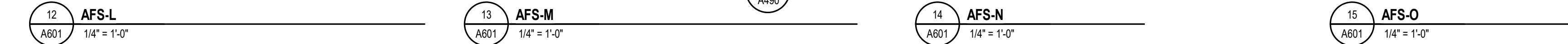
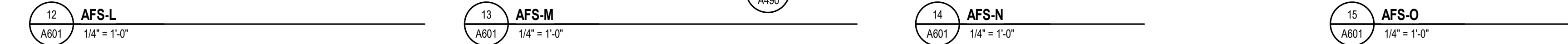
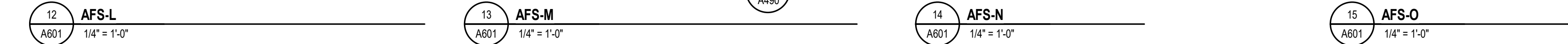
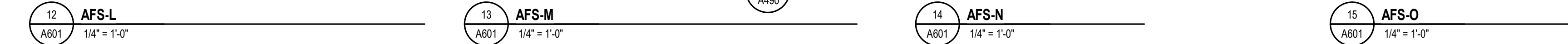
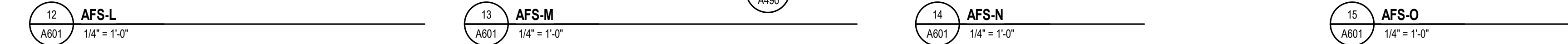
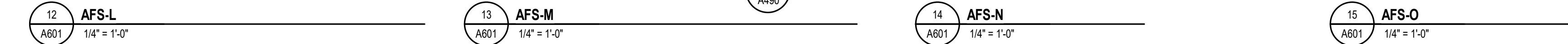
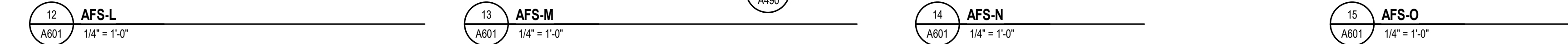
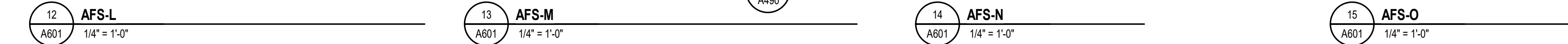
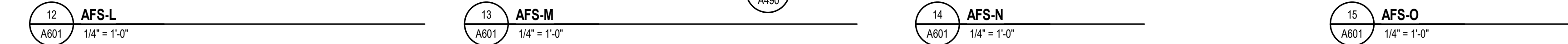
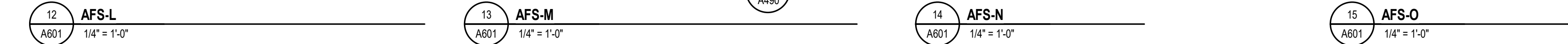
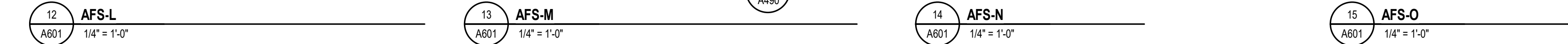
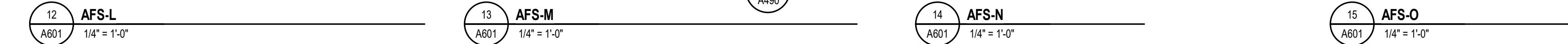
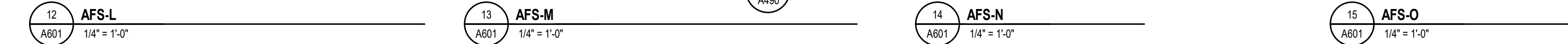
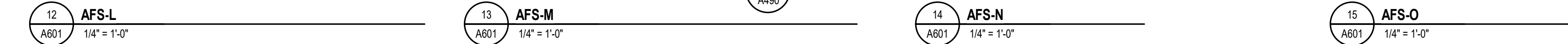
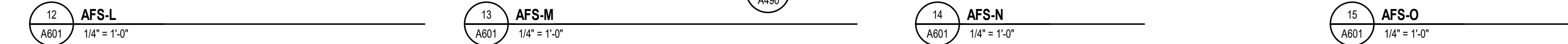
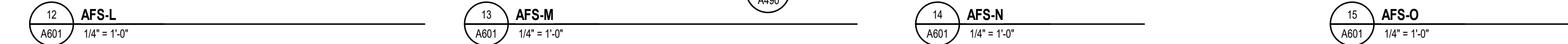
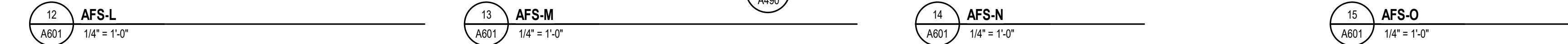
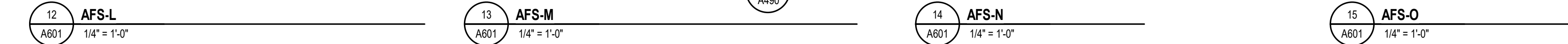
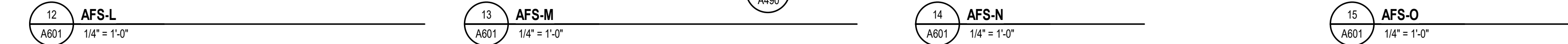
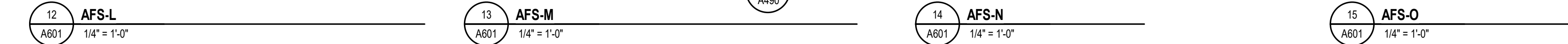
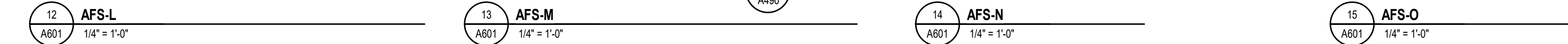
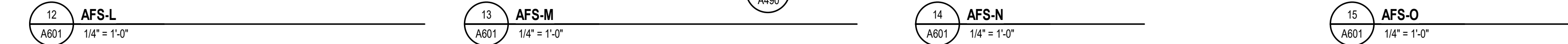
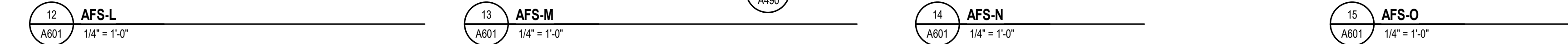
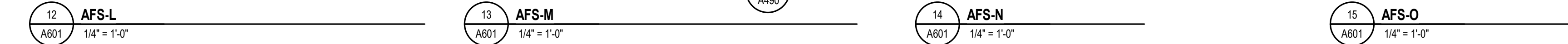
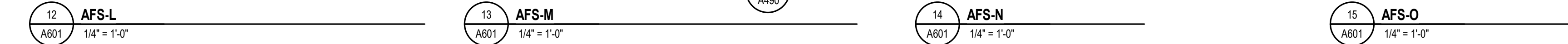
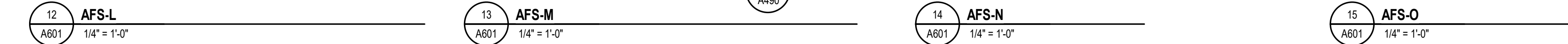
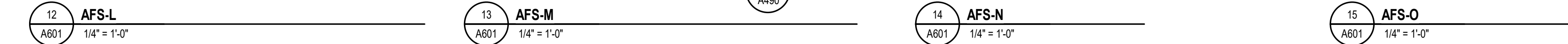
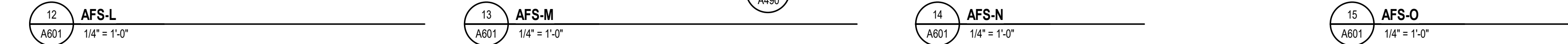
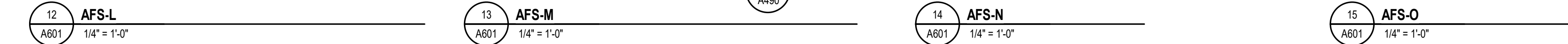
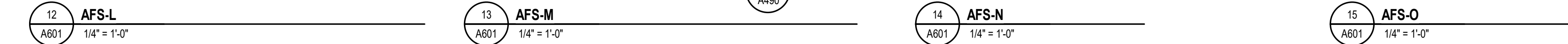
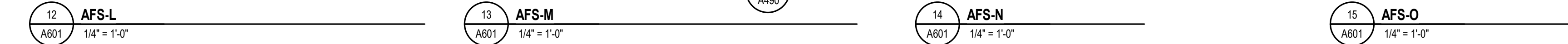
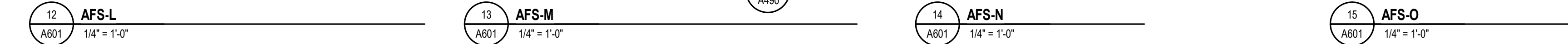
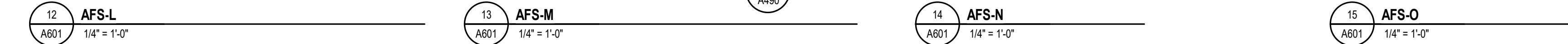
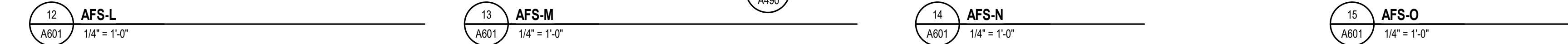
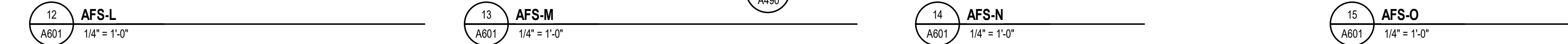
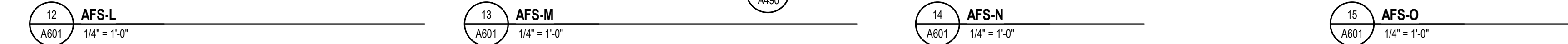
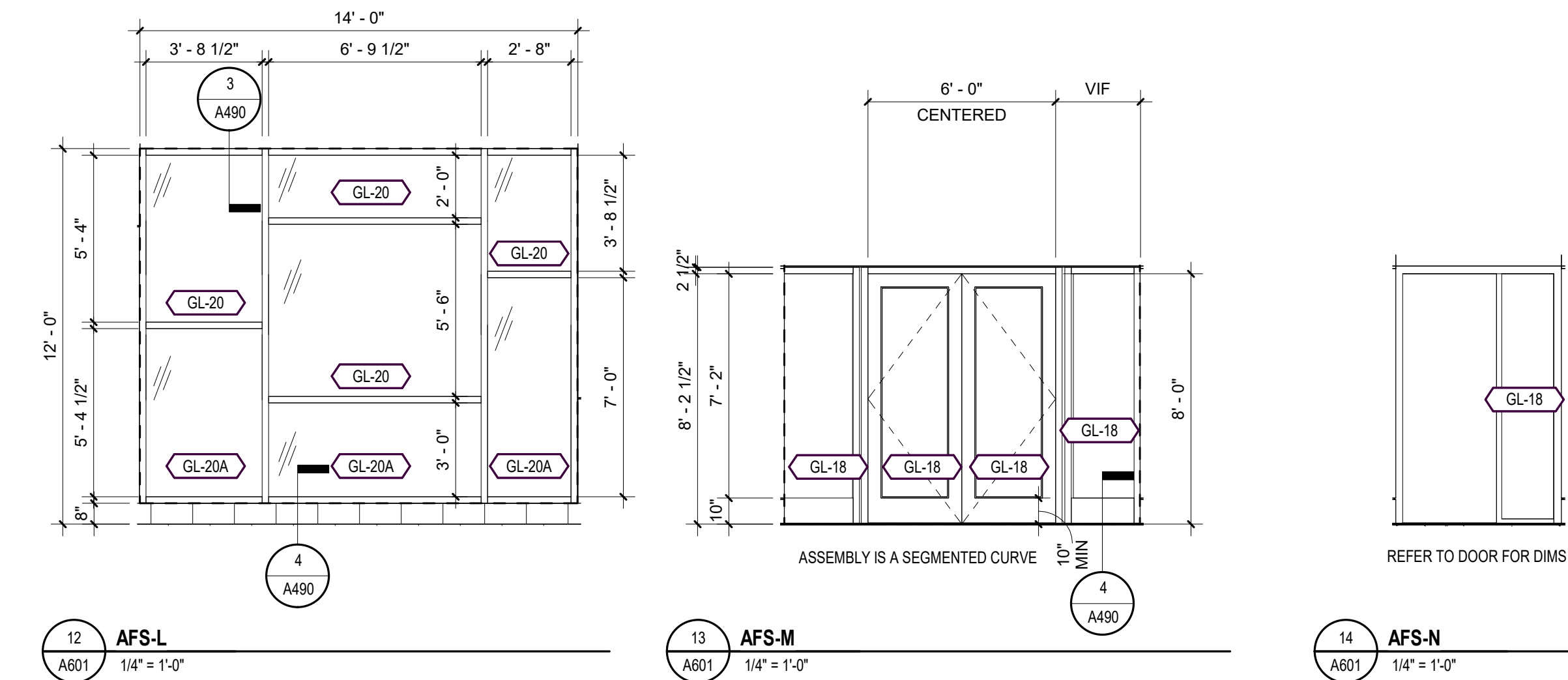
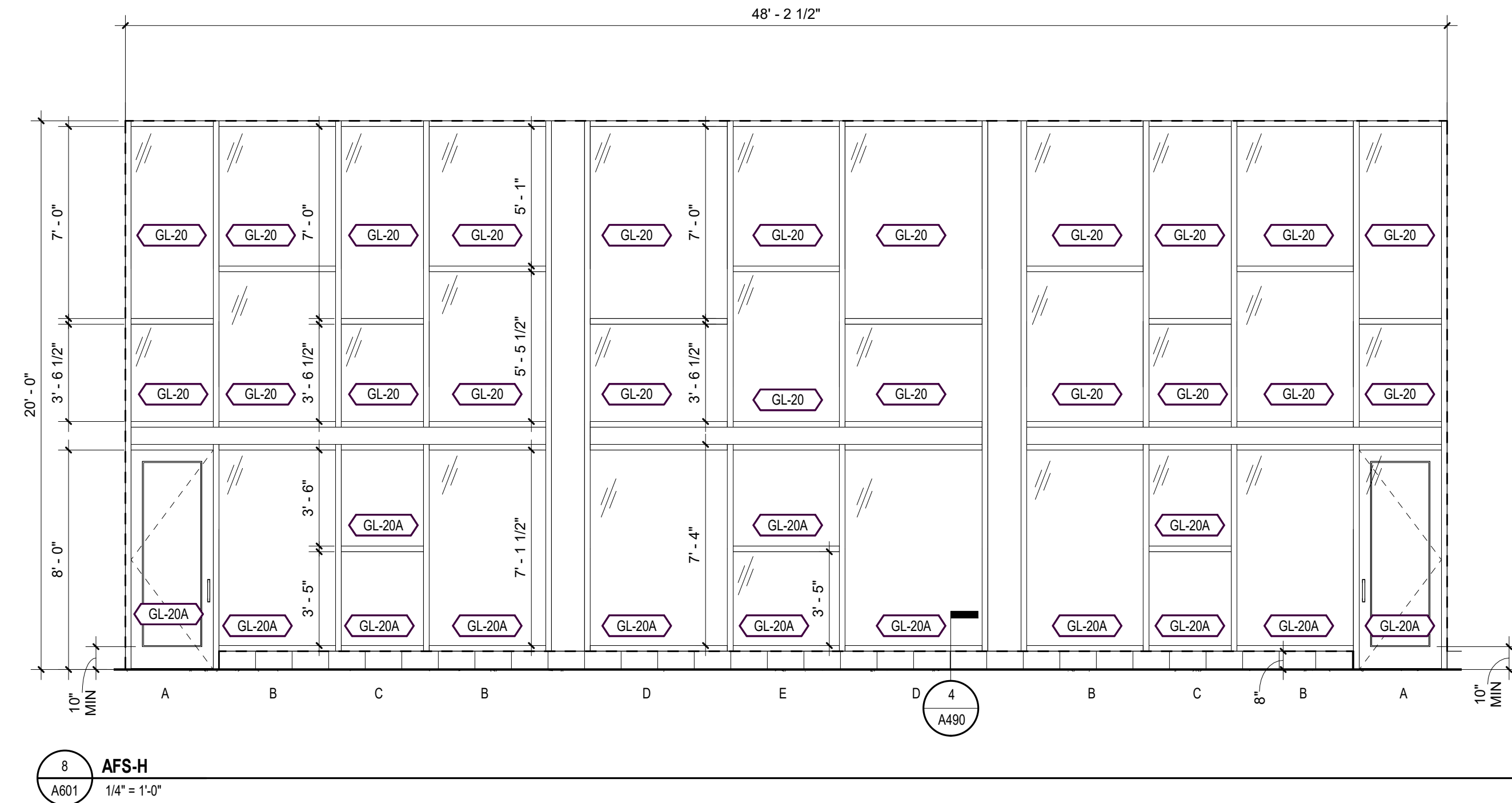
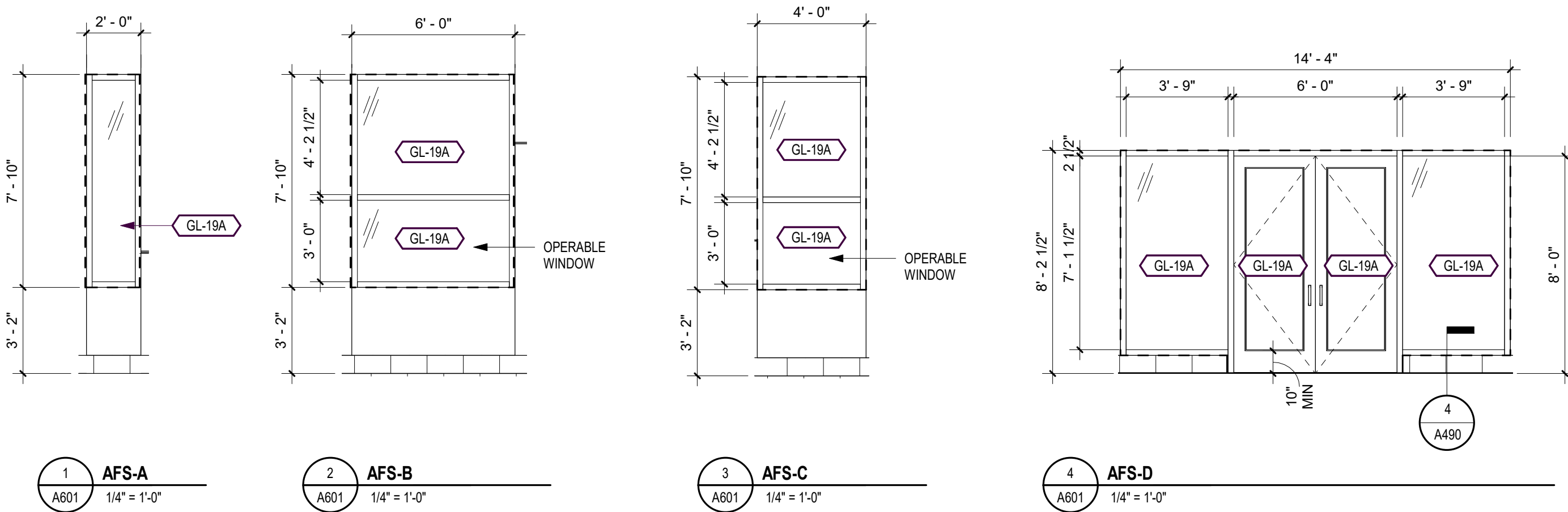
Sheet Title

Door, Frames and Window
Types / Details

Sheet Number

Current Revision

A600



Finish Plan Notes

- GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING LEAD TIMES AND AVAILABILITY OF ALL MATERIAL SUCH THAT MATERIALS ARE ON SITE WHEN READY FOR INSTALLATION. THE RE-SELECTION OF MATERIAL BECAUSE OF LONG LEAD TIME WILL NOT BE PERMITTED.
- SUBMIT DRAW-DOWNS AND SAMPLES OF ALL FINISHES FOR APPROVAL PRIOR TO APPLICATION AND INSTALLATION.
- FLAME SPREAD RATINGS FOR ALL FINISH MATERIALS SHALL CONFORM TO APPLICABLE REGULATORY CODES.
- ALL WORK BY OTHERS SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE FROM PAINTING AND FROM THE APPLICATION OF VARIOUS ADHESIVES USED IN THE INSTALLING OF FINISHES, OR COMPLETION ALL OTHER WORK SHALL BE FREE OF DAUBS, SPOTS AND SPLATTERS OF PAINT AND ADHESIVES.
- FLOOR SURFACE PREPARATION: CLEAN SURFACES TO BE COVERED. FILL AND SMOOTH ALL CRACKS, UNEVEN, AND/OR ROUGH SURFACES IN SUBSTRATE WHERE FLOOR COVERING IS TO BE INSTALLED. PRIOR TO INSTALLING FLOOR COVERING REMOVE SUBSTANCES FROM SUBSTRATE THAT MAY TELESCOPE THROUGH THE FINISHED FLOOR COVERING. THE FLOOR SHALL BE LEVELED PRIOR TO APPLICATION OF FINISH FLOOR COVERING. LEVEL FLOOR IS DEFINED AS A FLOOR AREA NOT VARYING 1/4" WITHIN A 10'-0" RADIUS.
- JOINTS IN BASE SHALL NOT OCCUR CLOSER THEN 6" FROM CORNER AND SHALL BE BUTTED TIGHTLY TOGETHER.
- THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS OF WALL SURFACES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES IN CONDITION.
- ALL WALLS SHOULD BE PROPERLY PREPARED, SKIM COATED, SPACKLED, SANDED, ETC TO PROVIDE A SINGLE SMOOTH SURFACE READY FOR FINISHES.
- SURFACES SHALL BE PREPARED AS FOLLOWS: ALL NECESSARY FILLING OF NAIL HOLES, CRACKS AND BLEMISHES SHALL BE DONE BEFORE PRIMING. ALL KNOTS AND SAP SPOTS SHALL BE SHELLACKED BEFORE FINISHING WITH PAINT. ALL METAL SURFACES TO BE PAINTED SHALL BE WASHED WITH MINERAL SPIRITS TO REMOVE ALL OIL AND/OR GREASE. SAND OR WIRE BRUSH ALL RUSH OR SCALED AREAS. GALVANIZED METAL SHALL BE TREATED WITH AN APPROVED PRE-TREATING SOLUTION. THE APPLICATION OF PAINT OR FINISH SHALL SIGNIFY ACCEPTANCE OF SURFACE TO BE FINISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHED PRODUCT.
- ALL ELECTRICAL SWITCH, OUTLET AND DEVICE PLATES, SURFACE TRIM, HARDWARE, ETC SHALL BE REMOVED BEFORE PAINTING. PROTECT AND REINSTALL REMOVED ITEMS IN GOOD CONDITION WHEN PAINTING IS COMPLETE. REPLACE DAMAGED ITEMS.
- ALL MISCELLANEOUS ITEMS, GRILLES, REGISTERS, METAL PANELS, ETC. ON CEILINGS AND WALLS ARE TO BE PAINTED TO MATCH SURFACE COLOR ON WHICH THEY OCCUR, UNLESS OTHERWISE NOTED. REMOVE GRILLES, COVERS AND ACCESS PANELS FOR MECHANICAL AND ELECTRICAL SYSTEMS FROM LOCATIONS AND PAINT SEPARATELY.
- ALL WALLS TO BE PAINTED PT-01 UNLESS OTHERWISE NOTED. SEE FINISH PLAN AND ELEVATIONS FOR REFERENCE.
- ALL GYPSUM BOARD CEILINGS TO BE CEILING WHITE, UNLESS OTHERWISE NOTED.
- FLOORING TO BE POLISHED CONCRETE UNLESS NOTED OTHERWISE.

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Finish Plan Legend

ROOM NAME	
101	
af	- WALL FINISH
bf	- BASE FINISH
xxx-##	- FLOOR FINISH
	- EXISTING TO REMAIN (NIC-NOT IN CONTRACT)
	- ACCENT CARPET

Finish Key Notes "F"

Mark	Remark
F01	Enter Text Here
F02	Enter Text Here
F03	Enter Text Here
F-1	Enter Text Here

Registration

Name:

License No.:

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Signed:

Revisions

No.	Date	Description
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Project Information

Phase: 90% Construction Set Date: 04/23/2021
Project No.: 18-0720 PIC / A/C: S Oleson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

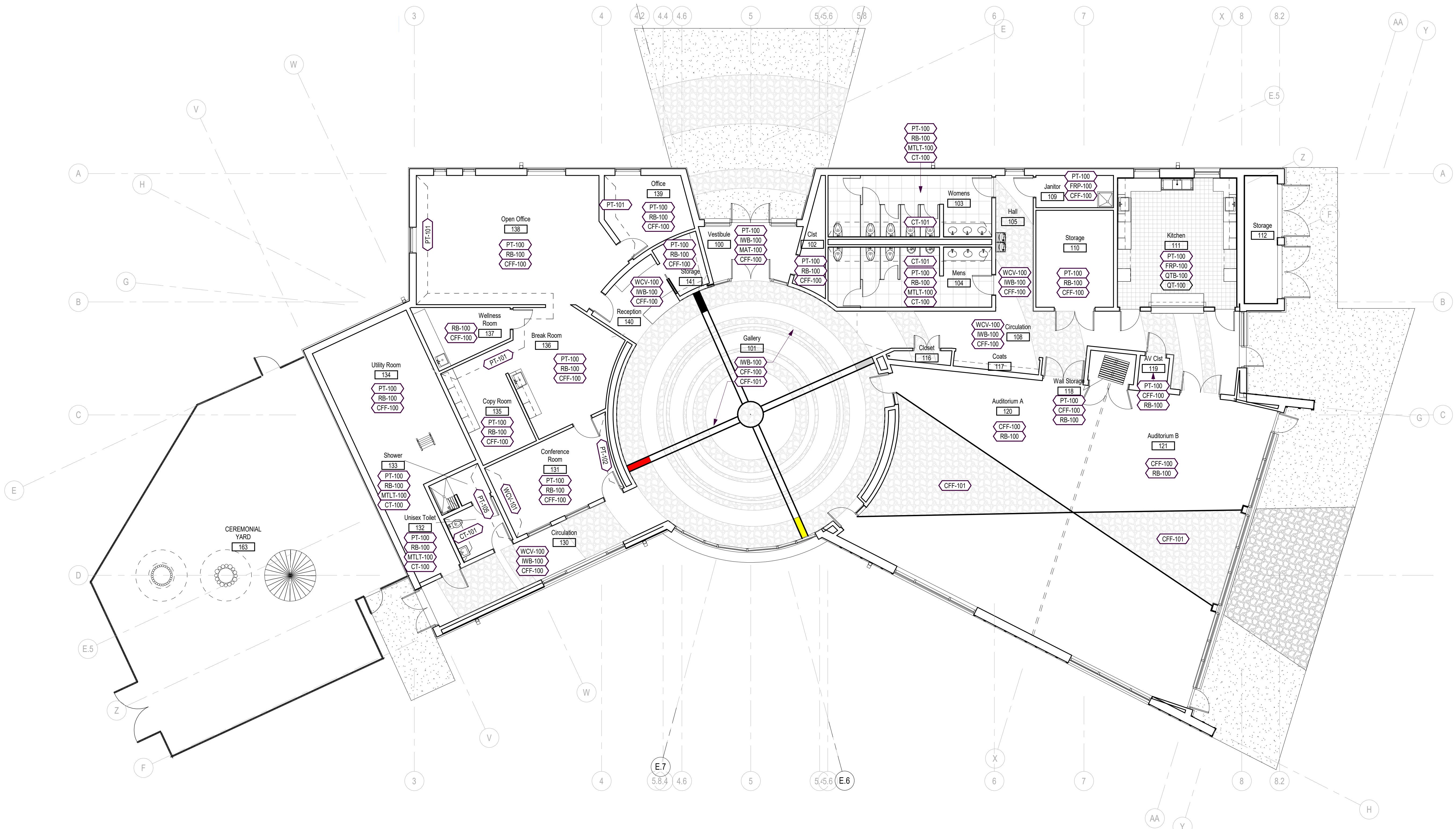
Finish Plan

Sheet Number

Current Revision

A710

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1
A710

Finish Plan

1/8" = 1'-0"

Color & Finish Schedule (Generic)

Revised	Mark	Spec #	Material Description	Location Comments	Manufacturer	Product	Color/ Finish	Size	Special Instructions	Contact
		ACP-100	ACOUSTIC CEILING PANEL	REFER TO RCP	ARMSTRONG CEILING OR EQUAL	2x2 ACOUSTIC CEILING PANELS				
		ACP-101	ACOUSTIC CEILING PANEL	AUDITORIUM	SOUND CONCEPTS OR EQUAL	DIRECT ATTACH ACOUSTIC CEILING PANEL	PAINTED STANDARD LINE BLACK			
		AWP-100	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	2"THICK, REFER TO RCP FOR CUSTOM SIZE	NRC 1.10, Z-BAR/CLIP INSTALL	PAUL TEGAN - PAUL@TEGANMARKETING.COM
		AWP-101	ACOUSTIC WALL PANEL	AUDITORIUM WALLS	SOUND CONCEPTS OR EQUAL	AP - ACOUSTICAL, IMPACT RESISTANT WALL PANELS. FIBERGLASS CORE, REFLECT RESILIENT SQUARE EDGE	REFER TO ELEVATIONS FOR FABRIC	2"THICK, SIZES VARY REFER TO ELEVATIONS	NRC 1.10, Z-BAR/CLIP INSTALL	NOT USED
		CFF-100	CONCRETE FLOOR FINISH	REFER TO FINISH PLAN	SCOFIELD OR EQUAL	ALLOW \$1.50/SF FINISH COST ONLY.				
		CFF-101	SANDBLASTED CONCRETE ACCENT	REFER TO FINISH PLAN	REFER TO MASTER SPEC					
		CT-100	COLORBODY PORCELAIN	RESTROOM FLOORS	DALTILE	PORTOFOLIO	CHARCOAL PF09	24" X 24"		AMIE MOONAN - AMIE.MOONAN@DALTILE.COM
		CT-101	GLAZED CERAMIC WALL TILE	RESTROOM WALLS	DALTILE	MYTHOLOGY	TITAN MY96, GLOSSY	4" X 12"		AMIE MOONAN - AMIE.MOONAN@DALTILE.COM
		FAB-100	FABRIC	AUDITORIUM WALLS	GUILFORD OF MAINE	BAILEY 2299	PARIS FROST 7020	-	-	-
		FAB-101	FABRIC	AUDITORIUM WALLS	GUILFORD OF MAINE	MARIN 1300	GREAT WHITE 1143	-	-	-
		FRP-100	FIBERGLASS-REINFORCED PANELING	KITCHEN	MARLITE OR EQUAL	STANDARD FRP	WHITE/ SMOOTH	4' X 8' SHEETS	PROVIDE ALL NECESSARY TRIMS	
		HDWR-100	HARDWARE	RECEPTION COUNTER	GLOBAL INDUSTRIAL	HON - METAL CENTER DRAWER WITH LOCK (ITEM# T9FB1481839)	BLACK	19"W X 14 3/4"D X 3"H		GLOBALINDUSTRIAL.COM
		HWDR-101	HARDWARE	RECEPTION CASEWORK						
		IWB-100	INTERGRATED WALL BASE	REFER TO FINISH PLAN						
		MAT-100	WALK-OFF MAT	VESTIBULE	GC TO SOURCE		BLACK			
		MIR-100	MIRROR	RESTROOMS	GC TO SOURCE	MIRROR	ANODIZED ALUMINUM FRAME	6' X 3'		
		MTLT-100	SCHLUTER	RESTROOM COVE BASE	DALTILE		BRUSHED			
		MTLT-101	SCHLUTER	RESTROOM VERTICAL TRANSITIONS	DALTILE	JOLLY	BRUSHED			
		MTLT-102	SCHLUTER	ZINC CONCRETE INLAY	GRAINGER OR EQUAL	FLAT STOCK	ZINC	0.125"THICK, 1"th, 6"LONG		
		MTLT-103	METAL REVEAL	GALLERY REVEAL	FRY REGLET	DA.1 REVEAL DRM-50-50	ANODIZED ALUMINUM	1/2" REVEAL DEPTH, 1/2" REVEAL WIDTH		PATRICK O'NEILL - PATRICKONEILL@FRYREGLET.COM
		MTLT-104	REVEAL PICTURE HANGER	GALLERY REVEAL FOR ART	FRY REGLET	DRMH-50	AOR TO SELECT	1/2" REVEAL DEPTH, 3/4" REVEAL OPENING	INCLUDE 50 QTY. DRMH-50 INSERTS TO ATTACH ART TO	PATRICK O'NEILL - PATRICKONEILL@FRYREGLET.COM
		PLAM-100	PLASTIC LAMINATE	PLASTIC LAMINATE COUNTERS	FORMICA	PLASTIC LAMINATE	SEA SALT	36" X 84"		KRISTEN RADTKE - KRISTEN.RADTKE@FORMICA.COM
		PLAM-101	PLASTIC LAMINATE	PLASTIC LAMINATE CASEWORK	FORMICA	PLASTIC LAMINATE	AGED ASH 8844 (MATTE)	36" X 84"		KRISTEN RADTKE - KRISTEN.RADTKE@FORMICA.COM
		PLS-100	GYPSUM PLASTER	LOBBY COMMONS	GC TO SOURCE	HEAVY TEXTURE PLASTER WALLS				
		PT-100	PAINT	GENERAL WALL PAINT	SHERWIN WILLIAMS	INTERIOR PAINT	WHITETAIL, SW 7103 (EGGSHELL)	-	-	JAMES BERGEVIN - JAMES.R.BERGEVIN@SHERWIN.COM
		PT-101	PAINT	ACCENT	SHERWIN WILLIAMS	INTERIOR PAINT	STILL WATER, SW6223 (EGGSHELL)	-	-	JAMES BERGEVIN - JAMES.R.BERGEVIN@SHERWIN.COM
		PT-102	PAINT	CONFERENCE ROOM	SHERWIN WILLIAMS	INTERIOR PAINT	DRIED THYME, SW6186 (EGGSHELL)	-	-	JAMES BERGEVIN - JAMES.R.BERGEVIN@SHERWIN.COM
		PT-103	PAINT	AUDITORIUM WALLS AND CEILING, HM DOOR FRAMES, RAILINGS	SHERWIN WILLIAMS	INTERIOR PAINT	TRICORN BLACK SW6258 (EGGSHELL)	-	-	JAMES BERGEVIN - JAMES.R.BERGEVIN@SHERWIN.COM
		PT-104	PAINT	GALLERY AND AUDITORIUM MEDIUM ACCENT	SHERWIN WILLIAMS	INTERIOR PAINT	RAMIE, SW6156 (EGGSHELL)	-	-	JAMES BERGEVIN - JAMES.R.BERGEVIN@SHERWIN.COM
		PT-105	PAINT	UNISEX TOILET ROOM ACCENT	SHERWIN WILLIAMS	INTERIOR PAINT	UNDERSEAS, SW6214 (EGGSHELL)	-	-	JAMES BERGEVIN - JAMES.R.BERGEVIN@SHERWIN.COM
		QT-100	QUARRY TILE	KITCHEN AND PANTRY	DALTILE	STANDARD QUARRY TILE	ARID GRAY	6" X 6"		AMIE MOONAN - AMIE.MOONAN@DALTILE.COM
		QTB-100	QUARRY TILE BASE	KITCHEN AND PANTRY	DALTILE	STANDARD QUARRY TILE BASE	ARID GRAY	6" X 6"		AMIE MOONAN - AMIE.MOONAN@DALTILE.COM
		RB-100	RESILIENT BASE	REFER TO FINISH PLAN	TARKETT	BASEWORKS STRAIGHT	BURNT UMBER 63	10"th		KIRSTEN LARSON - KIRSTEN.LARSON@TARKETT.COM
		SF-100	SOLID SURFACE	COUNTERS WITH SINK	CORIAN QUARTZ	SOLID SURFACE COUNTERTOP	QUARTZ	CLOUD WHITE	1/2" THICK	KIM BROSE - KIM@HLLMARK.COM
		ST-100	STONE	GALLERY	TBD	TBD	TBD			
		ST-101	STONE	GALLERY	TBD	TBD	TBD			
		ST-102	STONE	GALLERY	TBD	TBD	TBD			
		ST-103	STONE	GALLERY	TBD	TBD	TBD			
		WCV-100	VINYL WALLCOVERING	CIRCULATION	WOLF GORDON	RAMPART WALL PROTECTION		52"W	REVERSE HANG, RANDOM MATCH, INSTALL FULL HEIGHT OF WALL	HOLLY THOMPSON - HOLLYTHOMPSON@WOLFGORDON.COM
		WCV-101	VINYL WALLCOVERING	CONFERENCE ROOM	DESIGNTEX	DNA WALLCOVERING + UV2 COATING	CUSTOM DESIGN	54"W	PROVIDE \$400 DESIGNTEX GRAPHIC DESIGNER FEE TO CREATE CUSTOM GRAPHIC DESIGN	JANINE PETERSEN - JPETERSEN@DESIGNTEX.COM

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Revisions		
No.	Date	Description

Project Information		
Phase:	90% Construction Set	Date: 04/23/2021
Project No.:	18-0720	PIC / AIC: S Olseson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

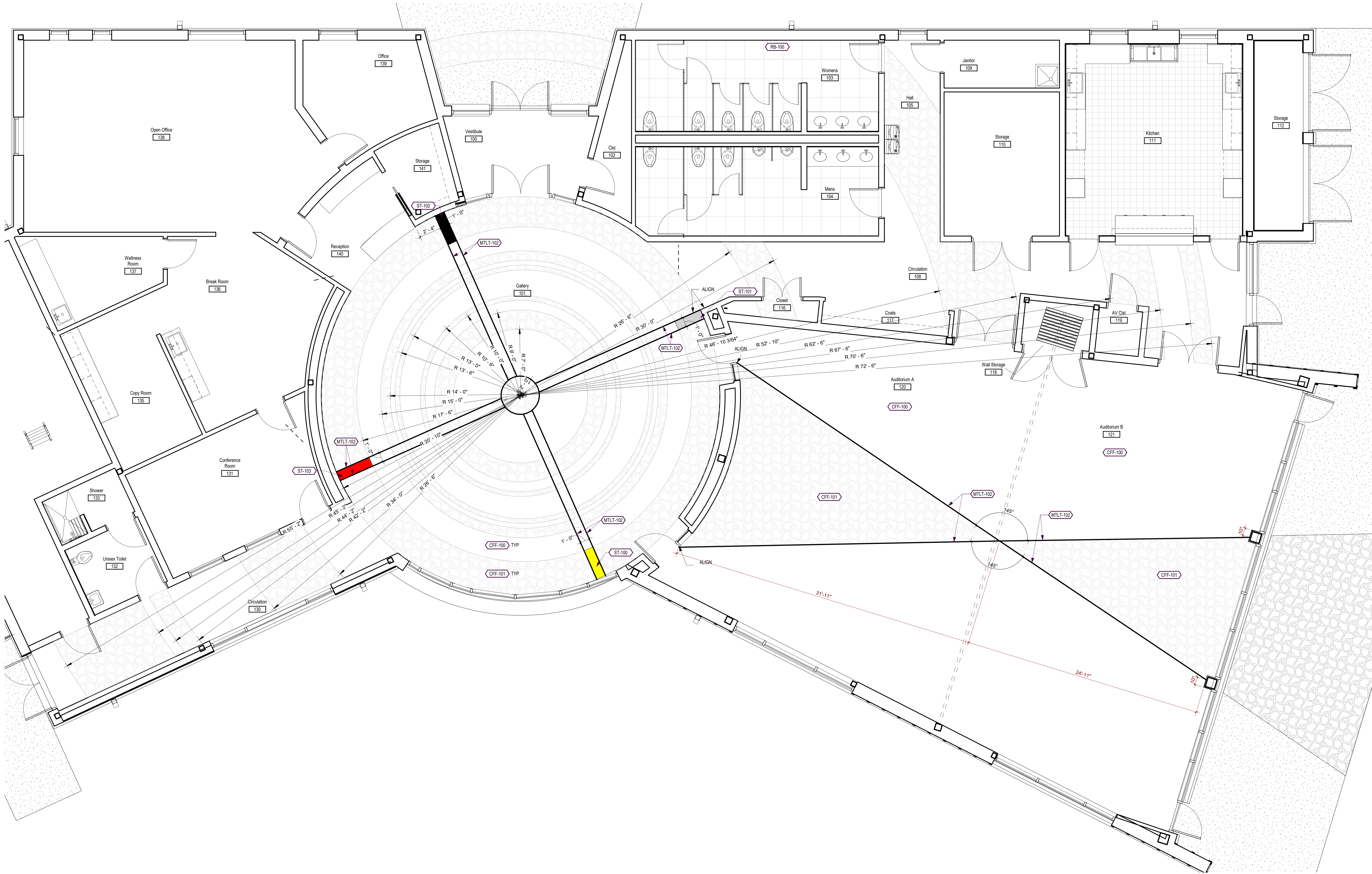
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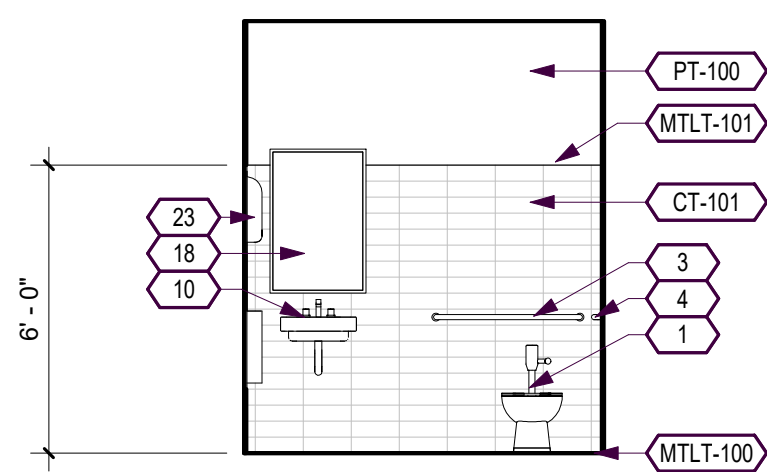
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Finish Plan Enlarged
Concrete Design

Sheet Number Current Revision

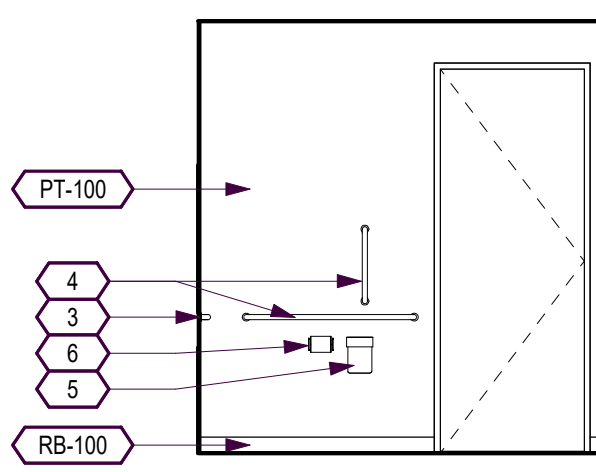
A711

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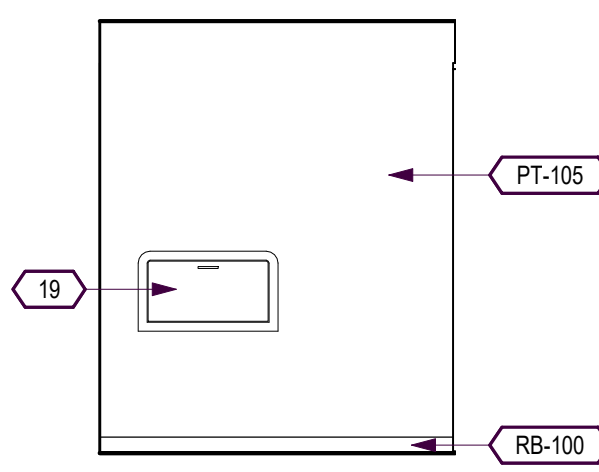




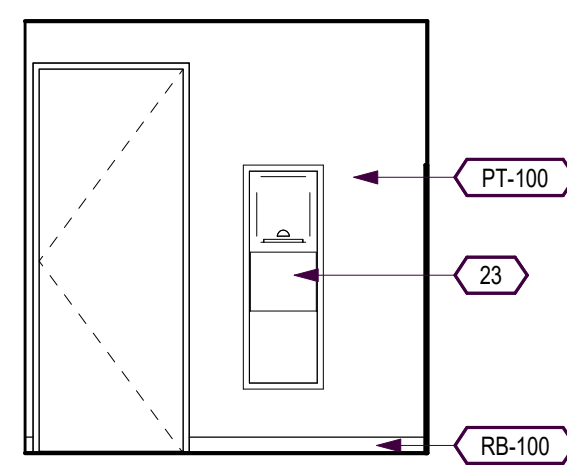
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A790 1/4" = 1'-0"



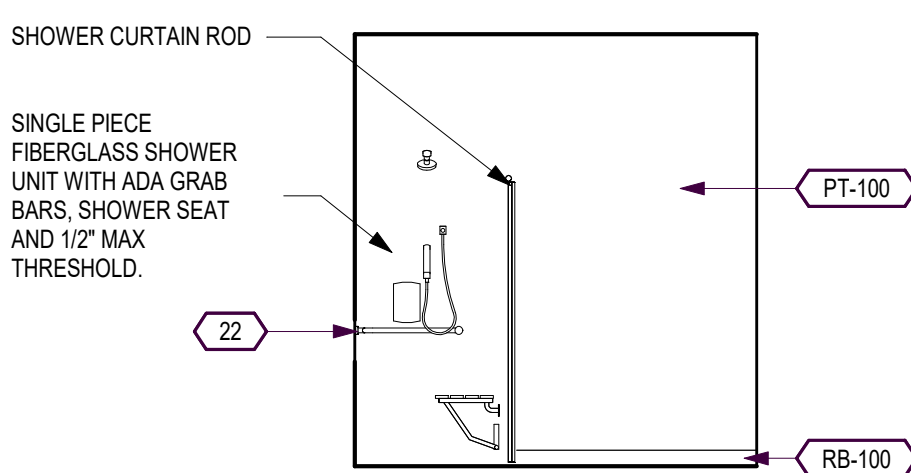
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A790 1/4" = 1'-0"



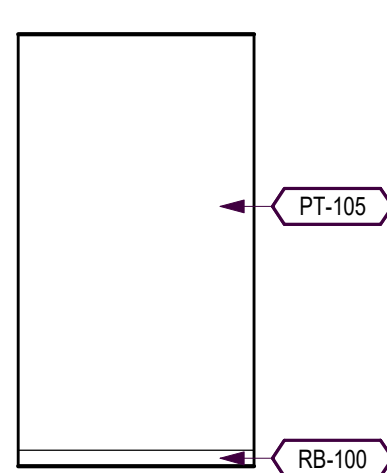
3 Family Restroom Elevation East
A790 1/4" = 1'-0"



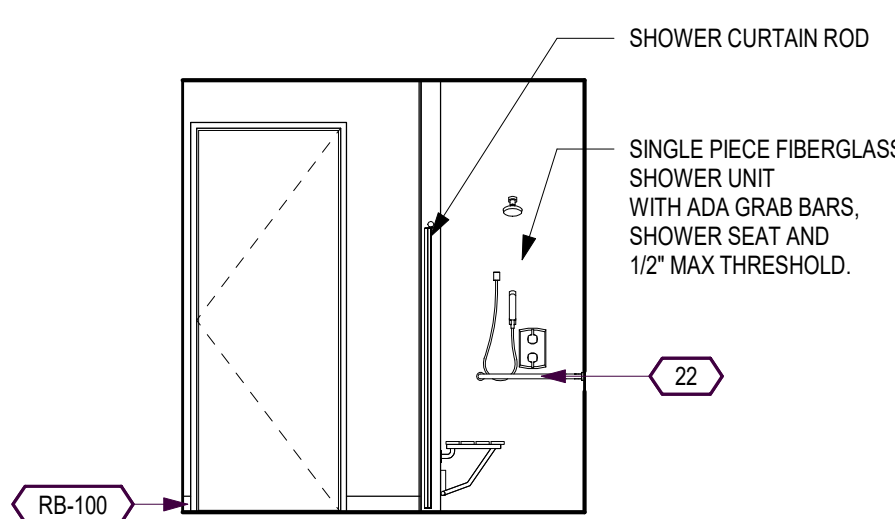
4 Family Restroom Elevation South
A790 1/4" = 1'-0"



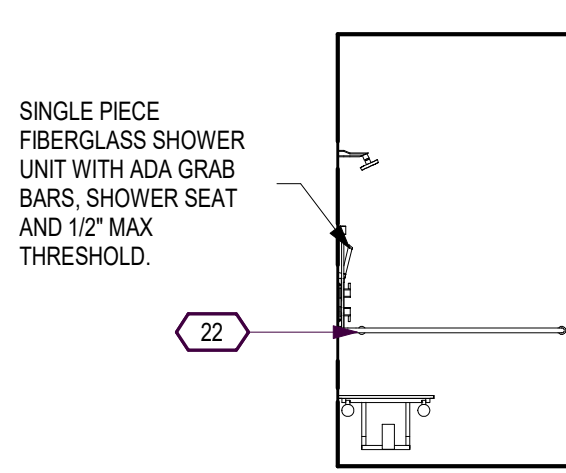
6 Shower Elevation North
A790 1/4" = 1'-0"



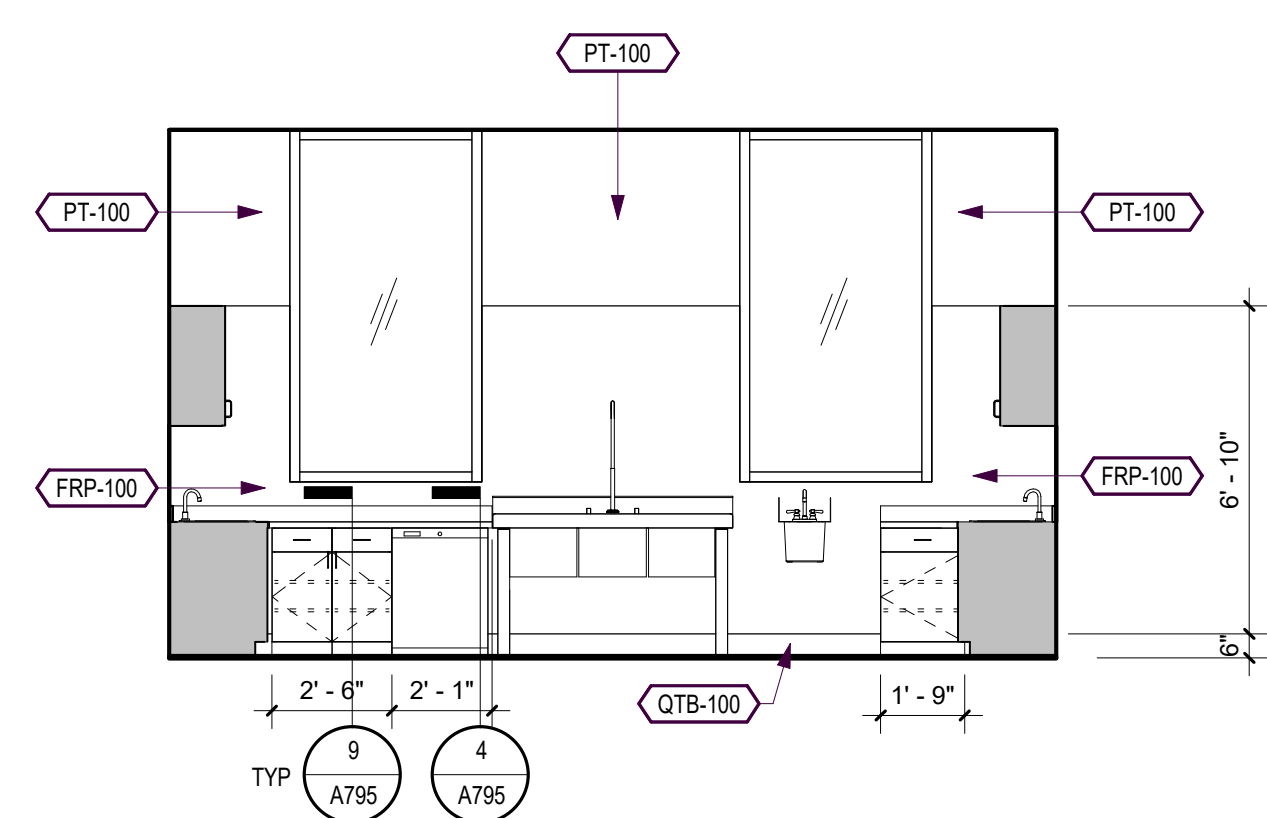
7 Shower Elevation East
A790 1/4" = 1'-0"



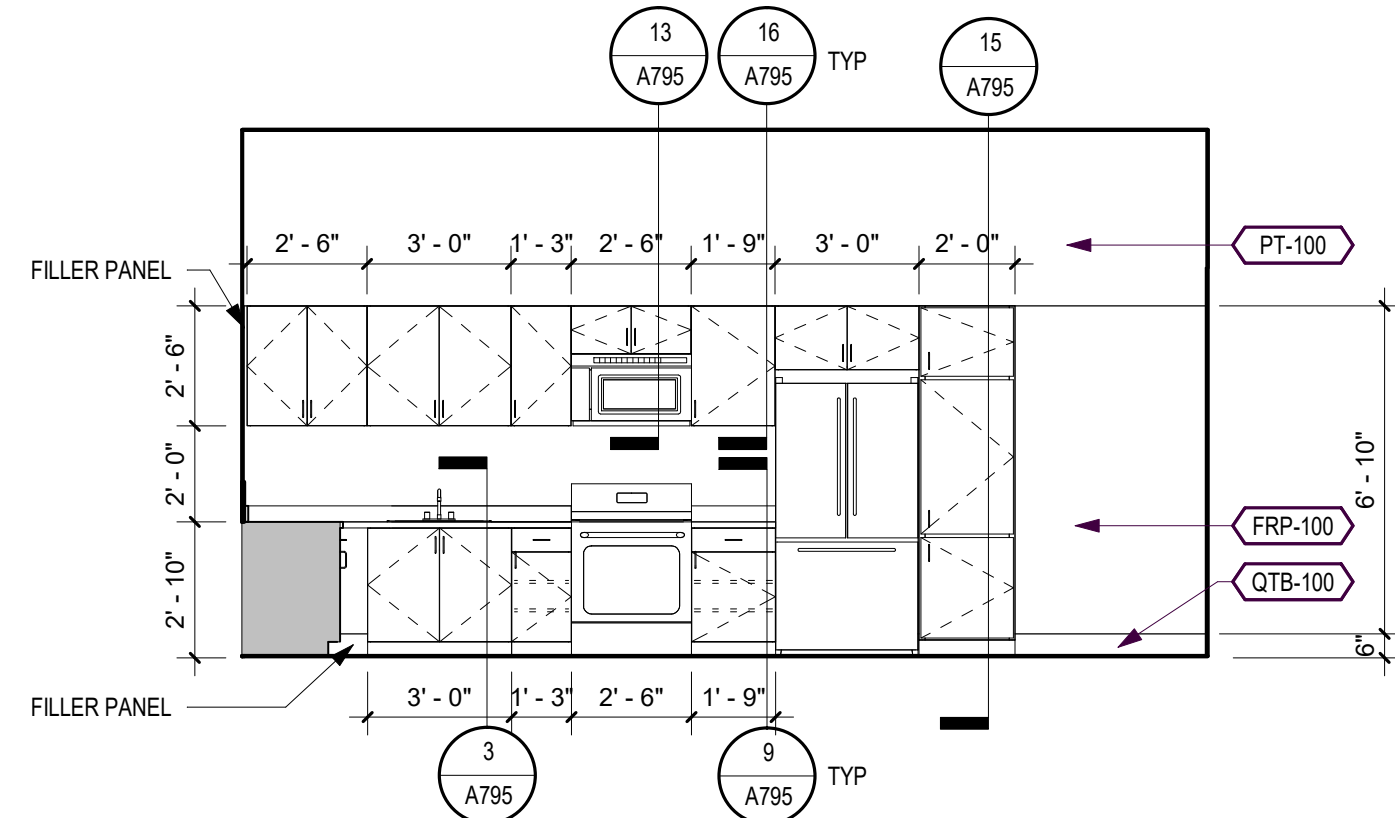
8 Shower Elevation South
A790 1/4" = 1'-0"



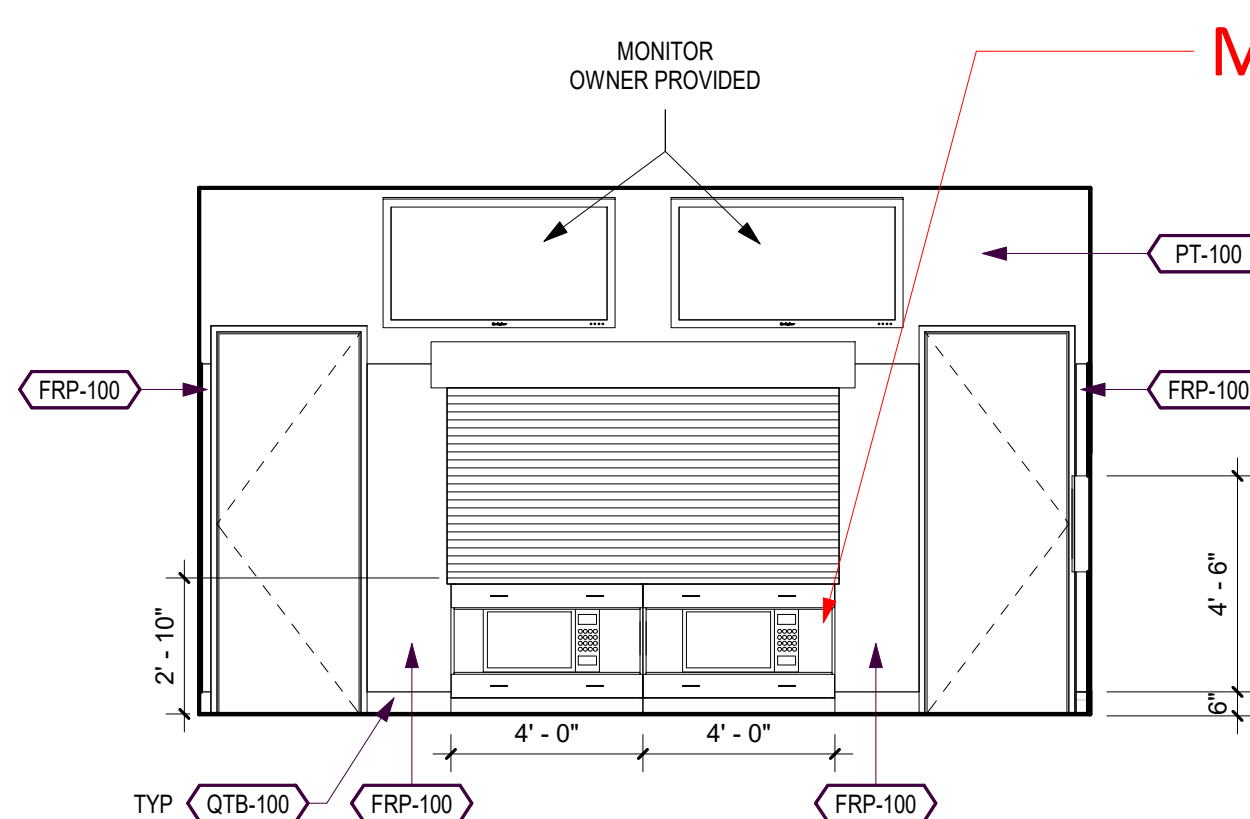
9 Shower Elevation West
A790 1/4" = 1'-0"



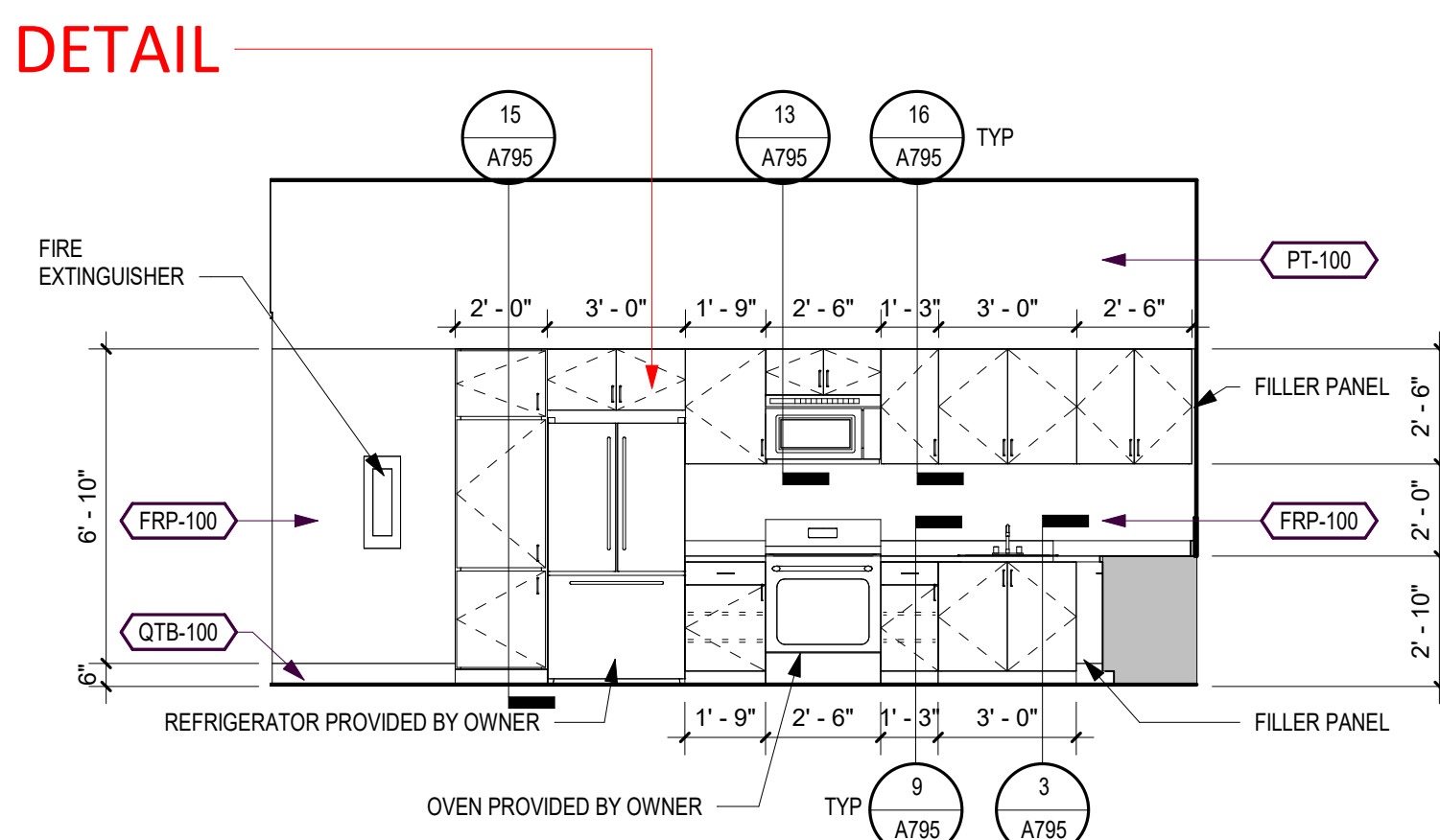
11 Kitchen Elevation North
A790 1/4" = 1'-0"



12 Kitchen Elevation East
A790 1/4" = 1'-0"



14 Kitchen Elevation South
A790 1/4" = 1'-0"



15 Kitchen Elevation West
A790 1/4" = 1'-0"

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Revisions

No.	Date	Description
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Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / AIC:	S Obeisson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

Interior Elevations

Sheet Number

Current Revision

A790

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Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

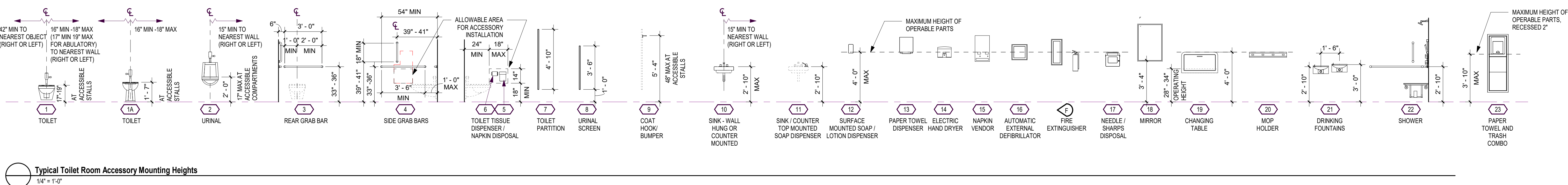
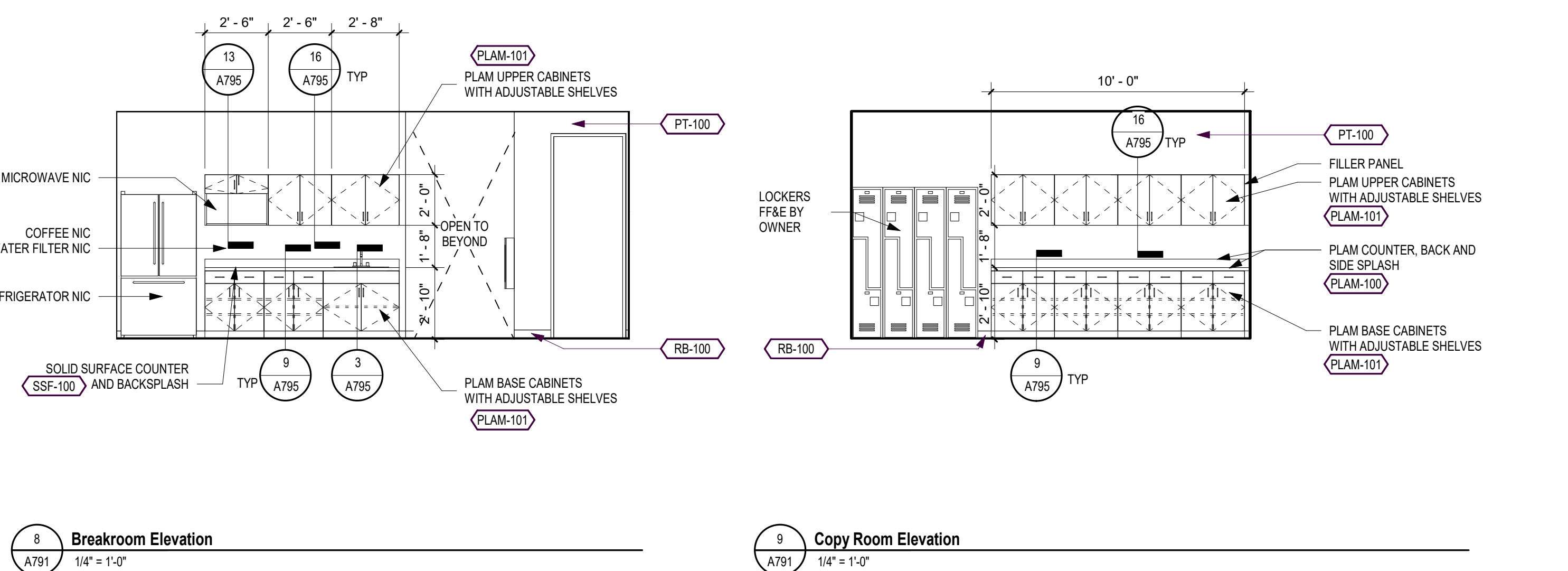
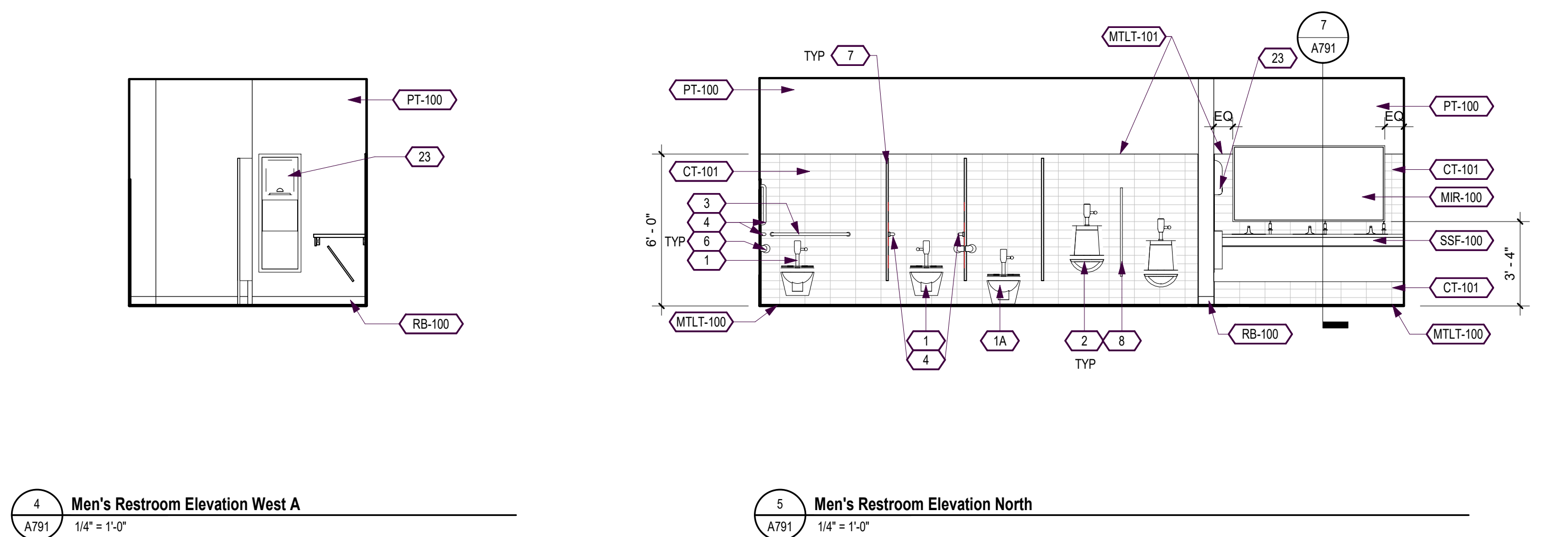
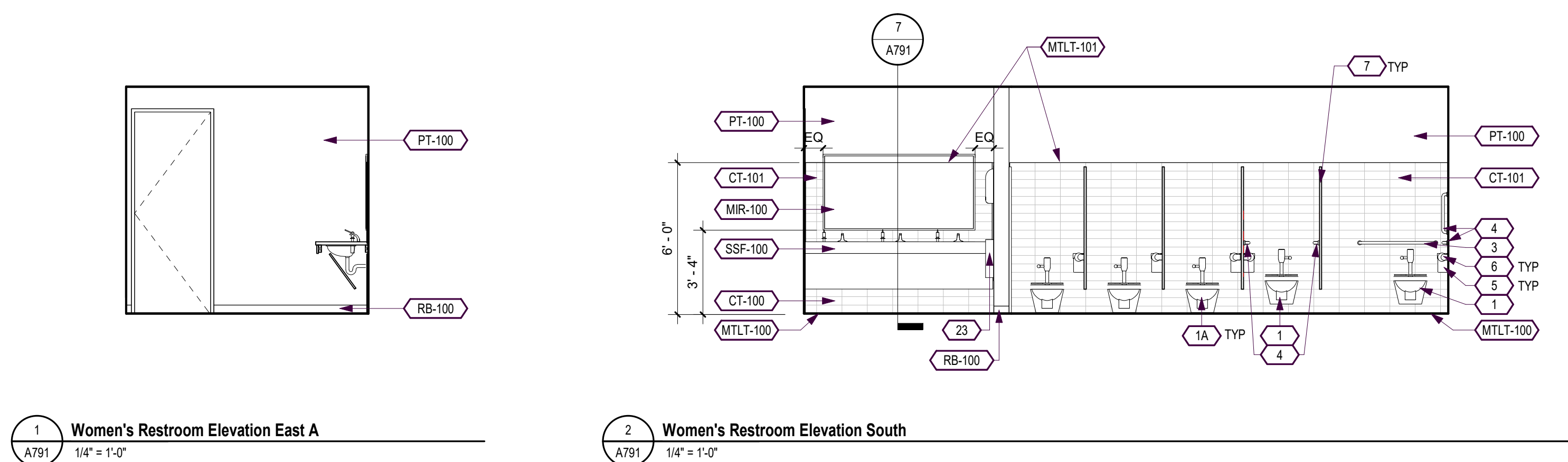
Interior Elevations

Sheet Number

Current Revision

A791

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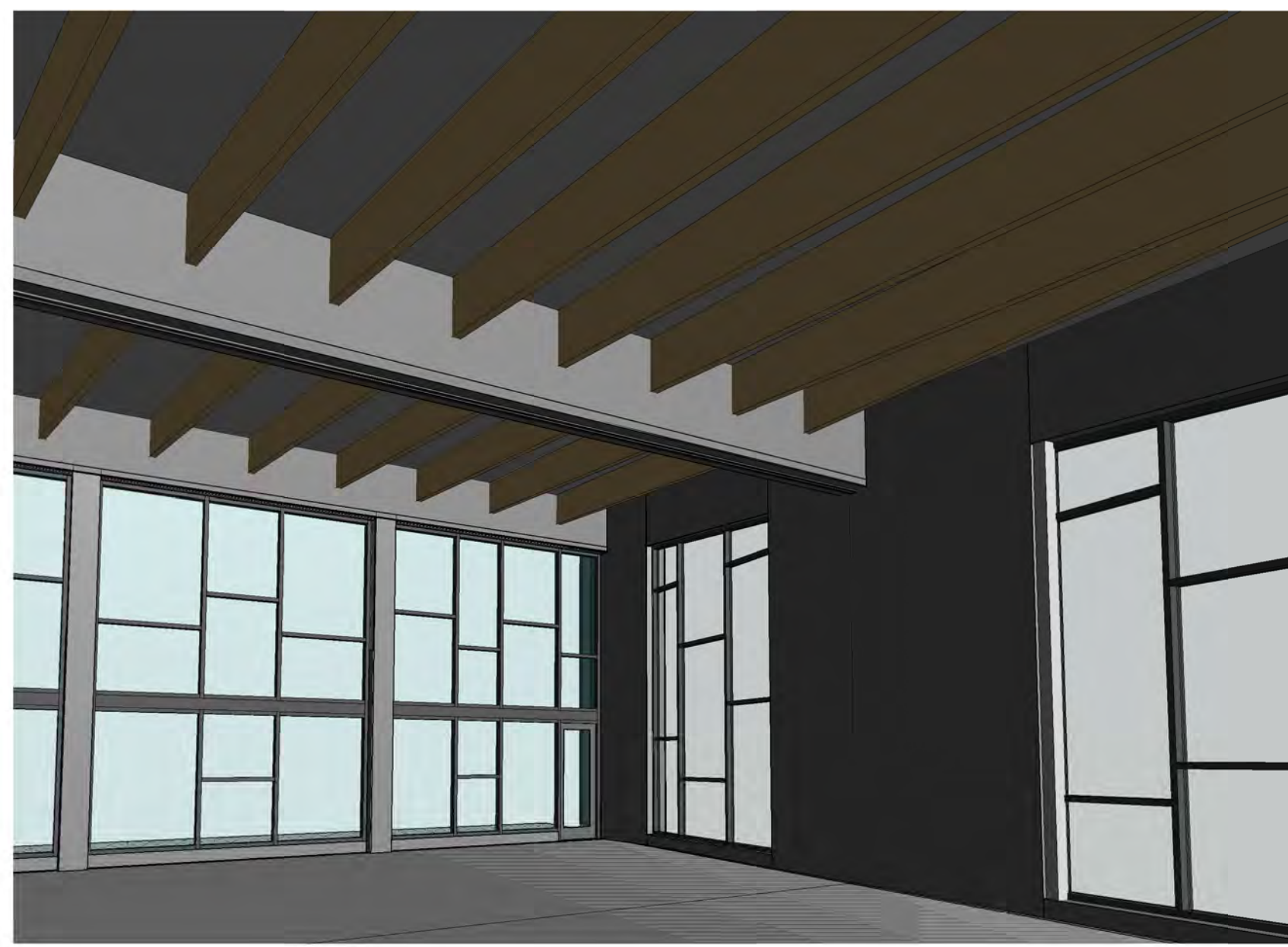




1 Auditorium Perspective View NW
A792



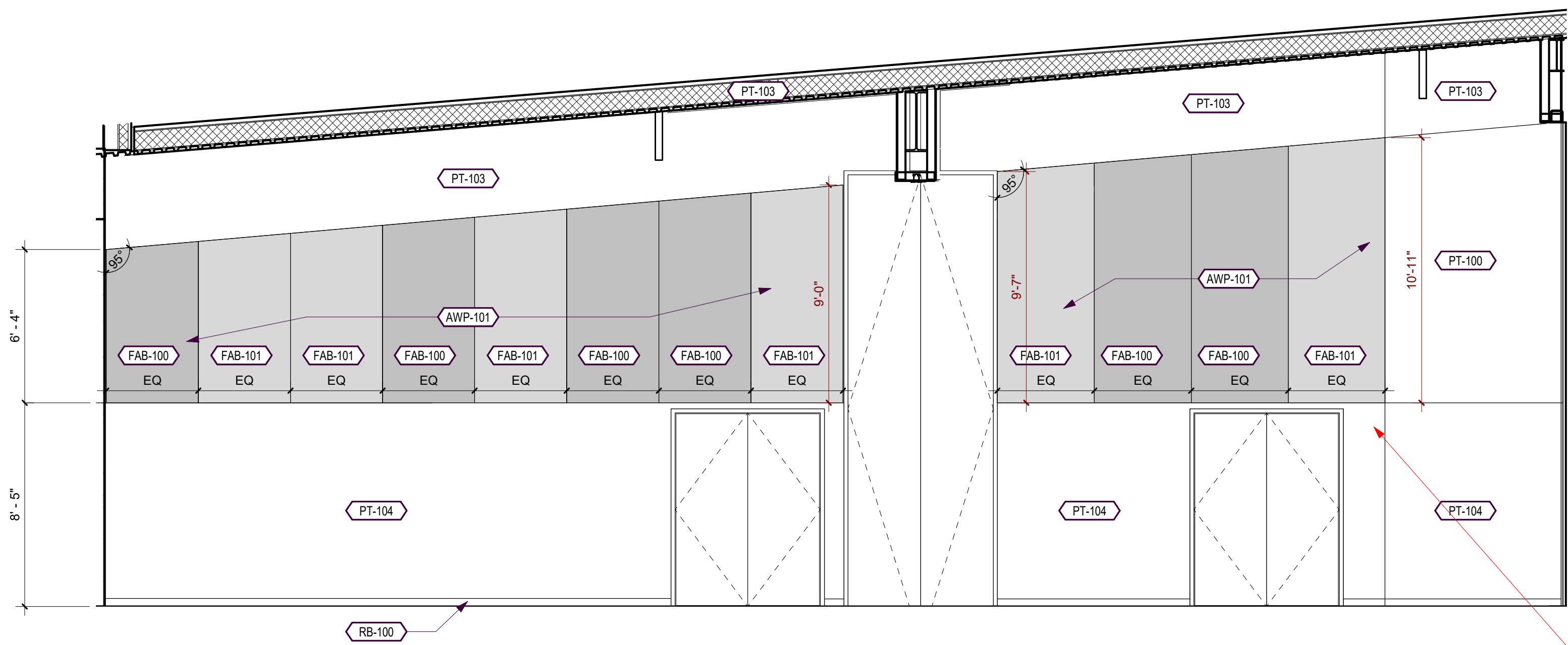
2 Auditorium Perspective View NE
A792



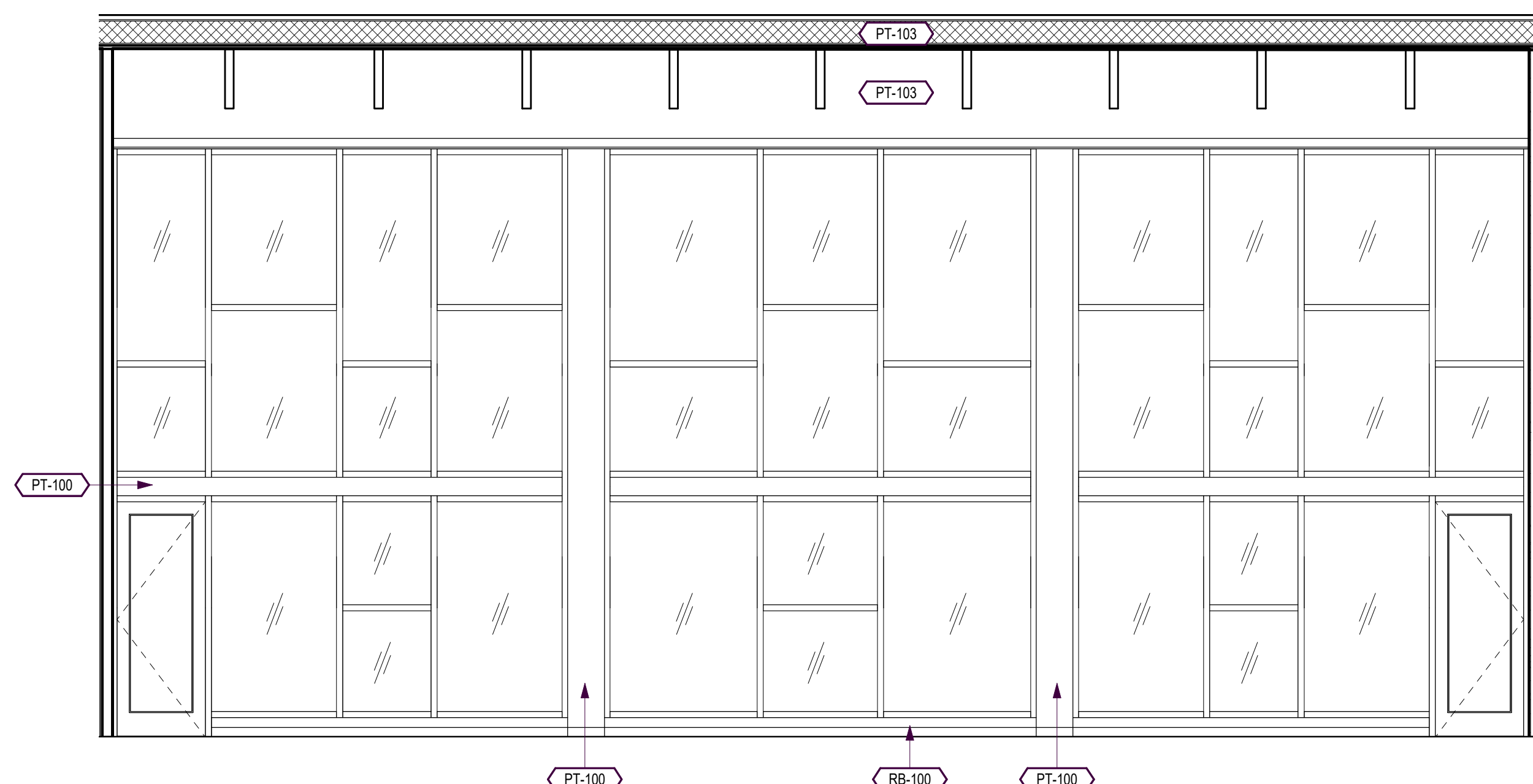
3 Auditorium Perspective View SE
A792

Cunningham

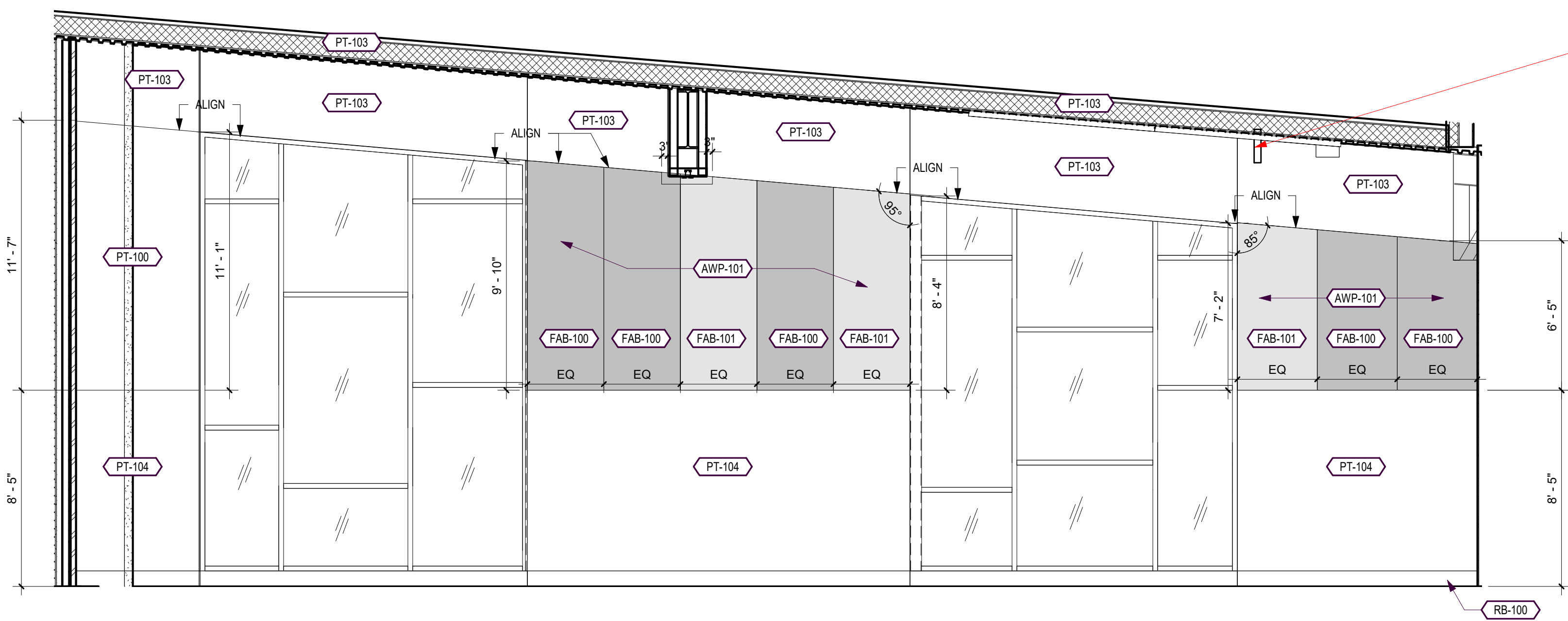
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cunningham.com



7 Auditorium Elevation North
A792
1/4" = 1'-0"

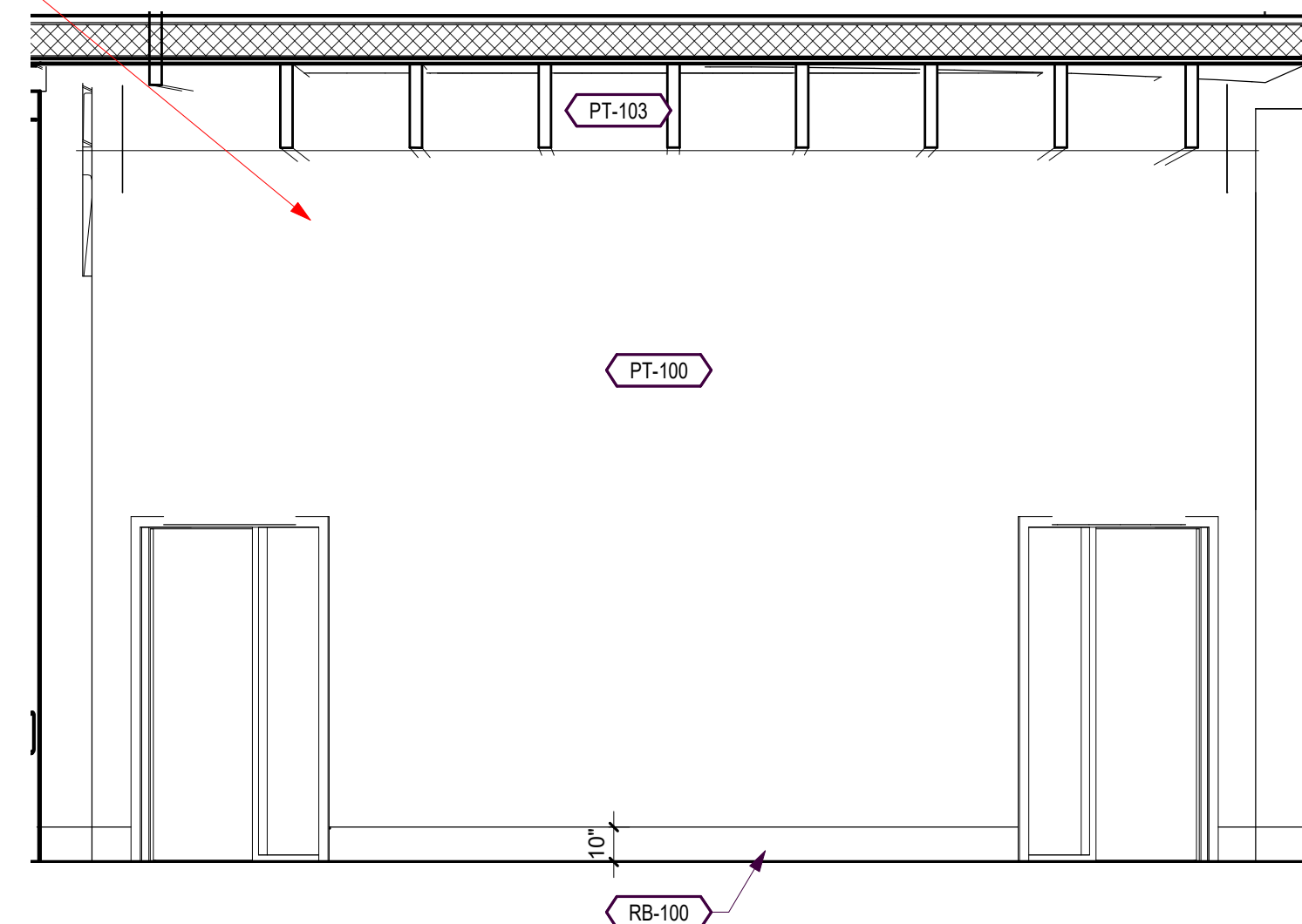


8 Auditorium Elevation East
A792
1/4" = 1'-0"



9 Auditorium Elevation South
A792
1/4" = 1'-0"

IN PROGRESS



10 Auditorium Elevation West
A792
1/4" = 1'-0"

Registration
Name:
License No.:

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Signed:

Revisions
No. Date Description

Project Information
Phase: 90% Construction Set Date: 04/23/2021
Project No.: 18-0720 PIC / A/C: S Obeleson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title
Interior Elevations

Sheet Number Current Revision

A792

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Revisions		
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Project Information
Phase: 90% Construction Set Date: 04/23/2021
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Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

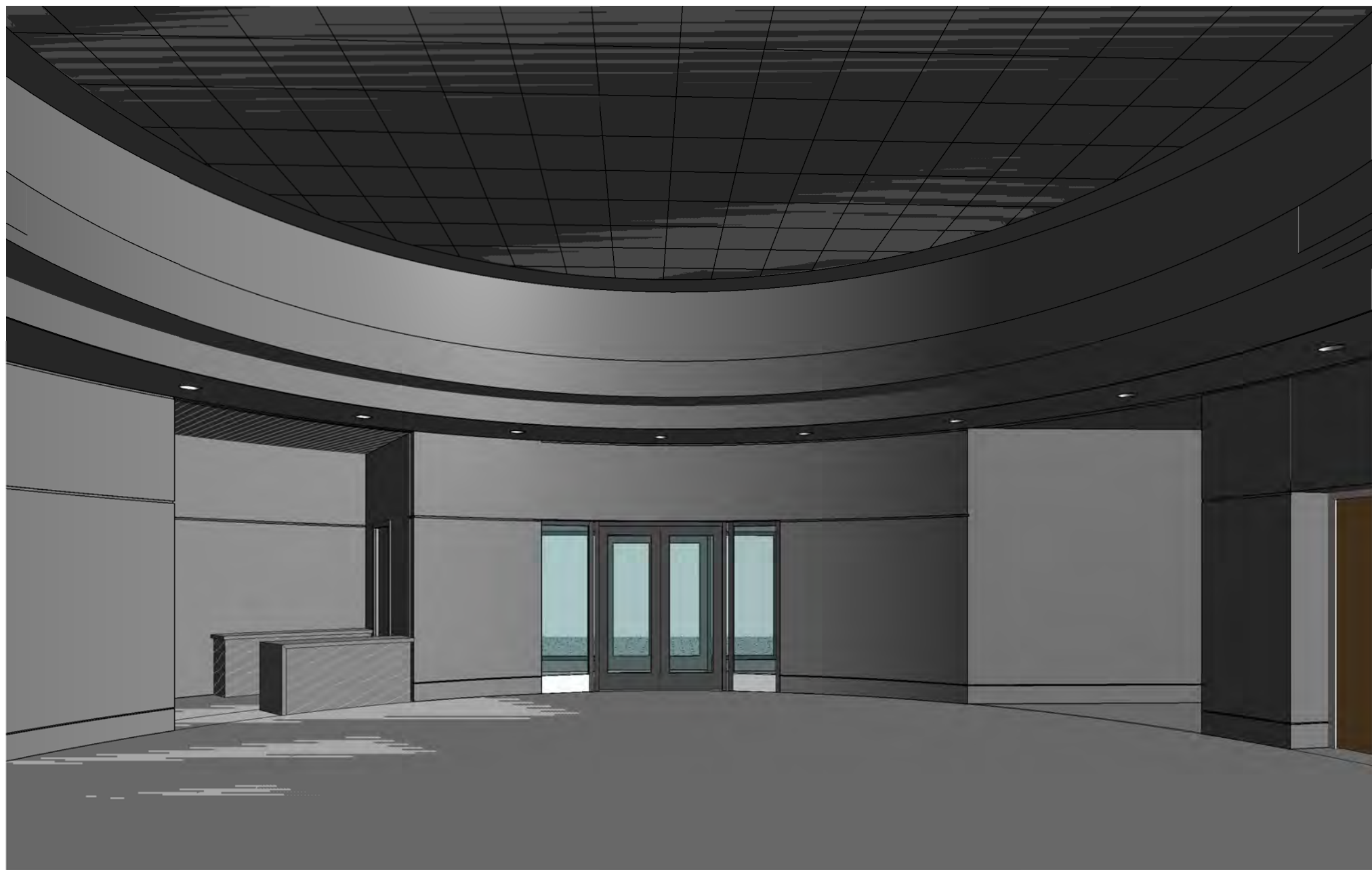
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Sheet Title
Interior Elevations

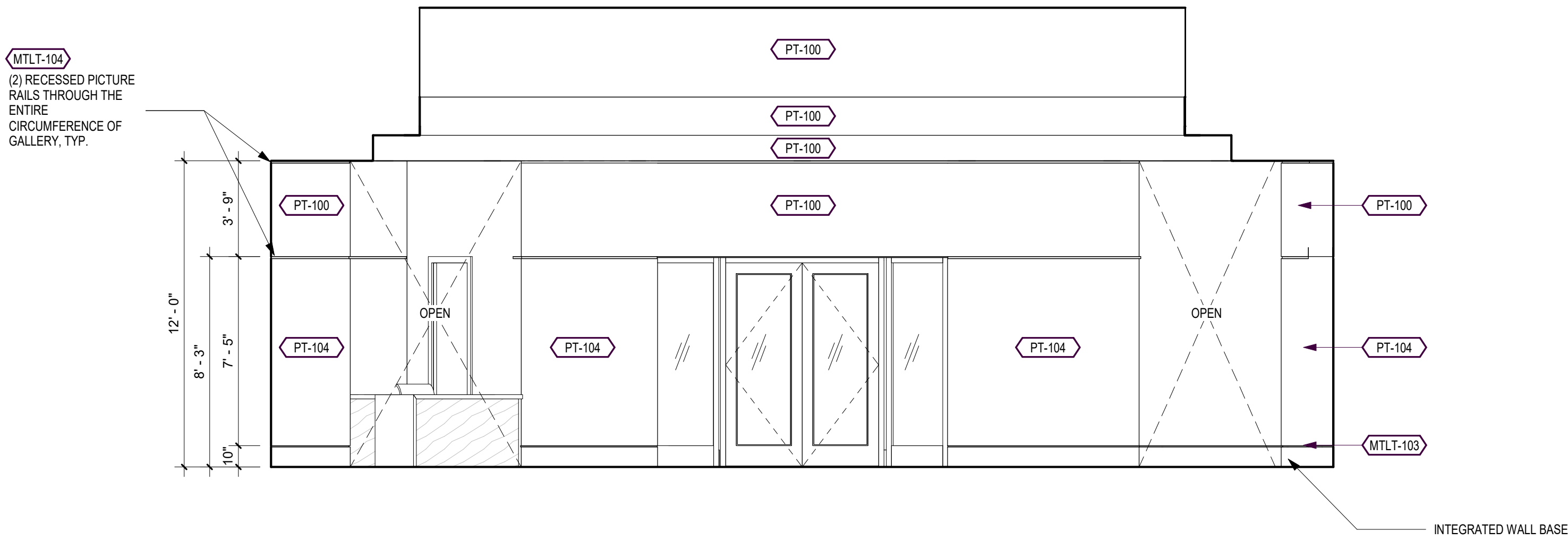
Sheet Number Current Revision

A793

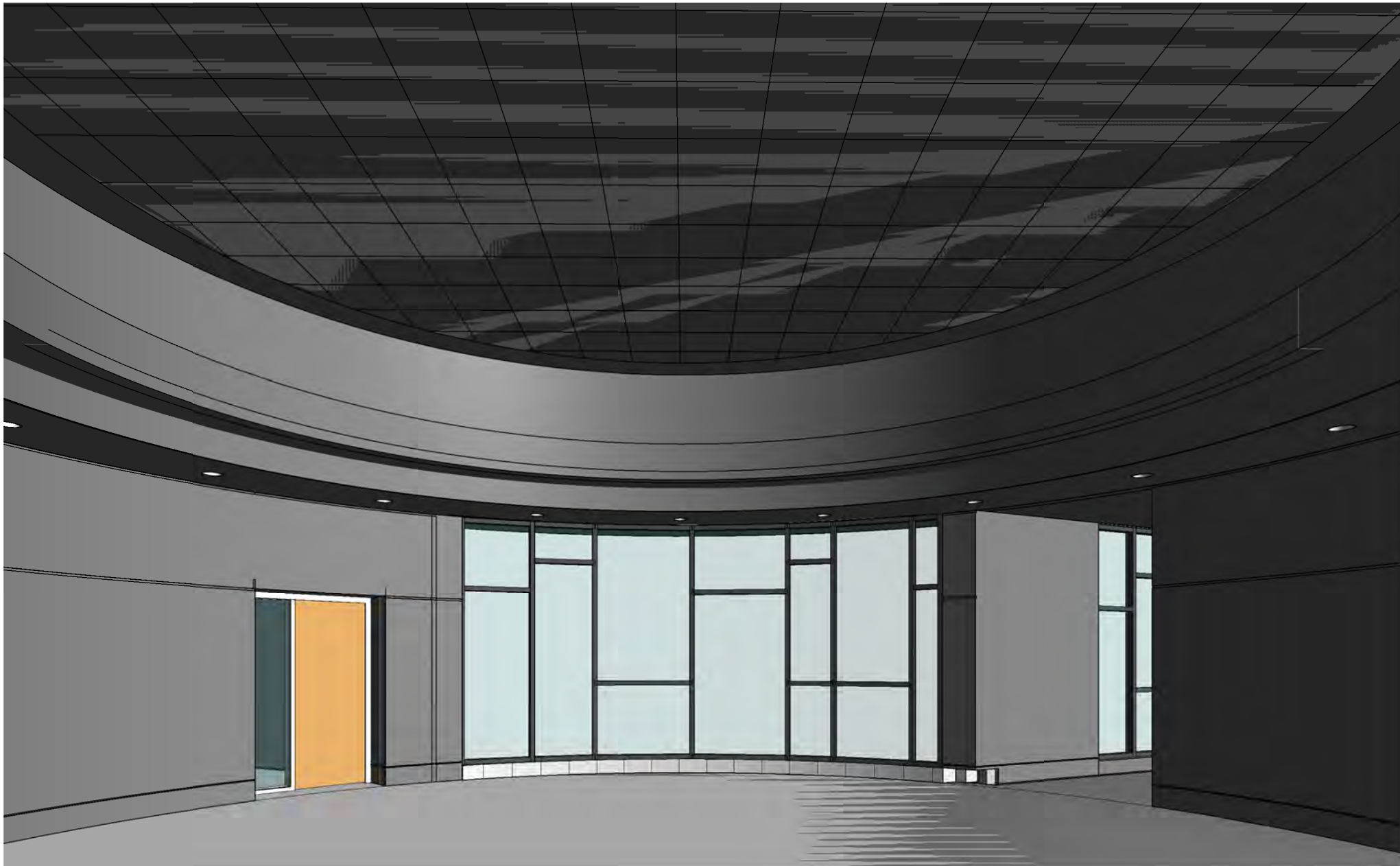
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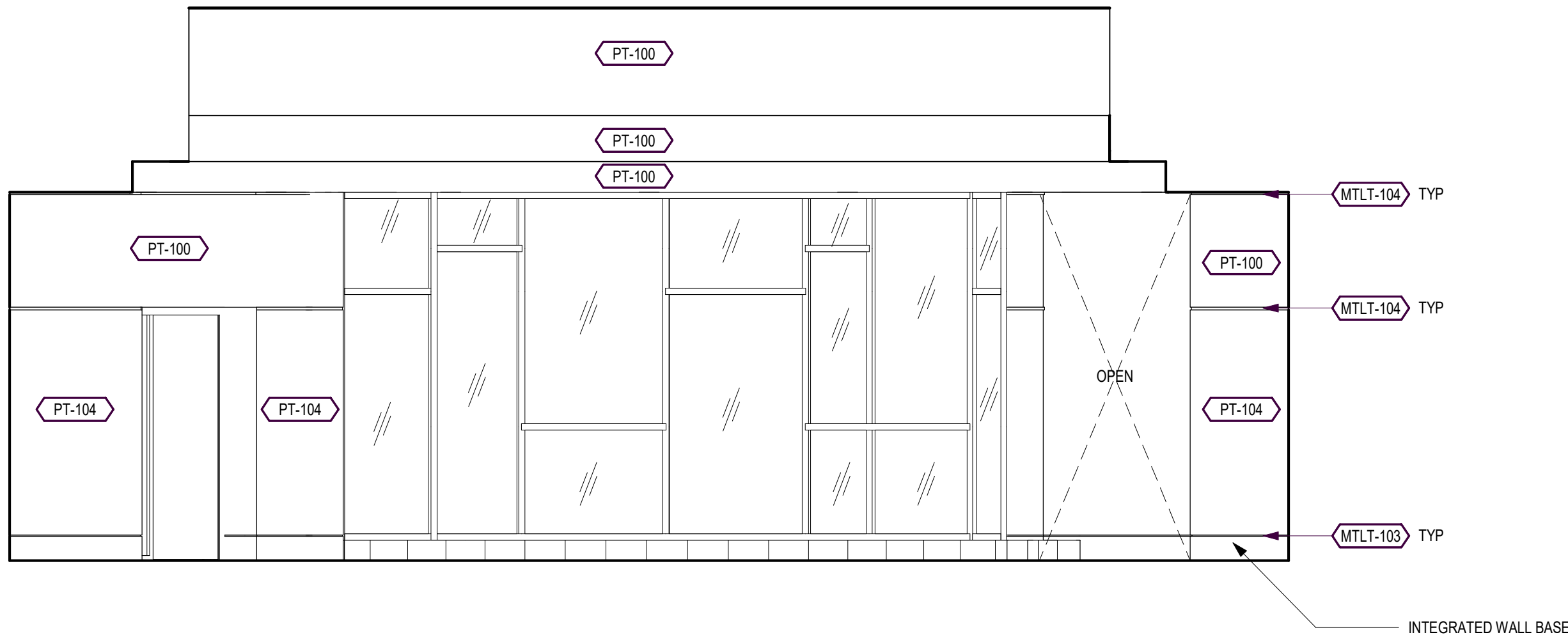
5 Gallery Perspective View North
A793



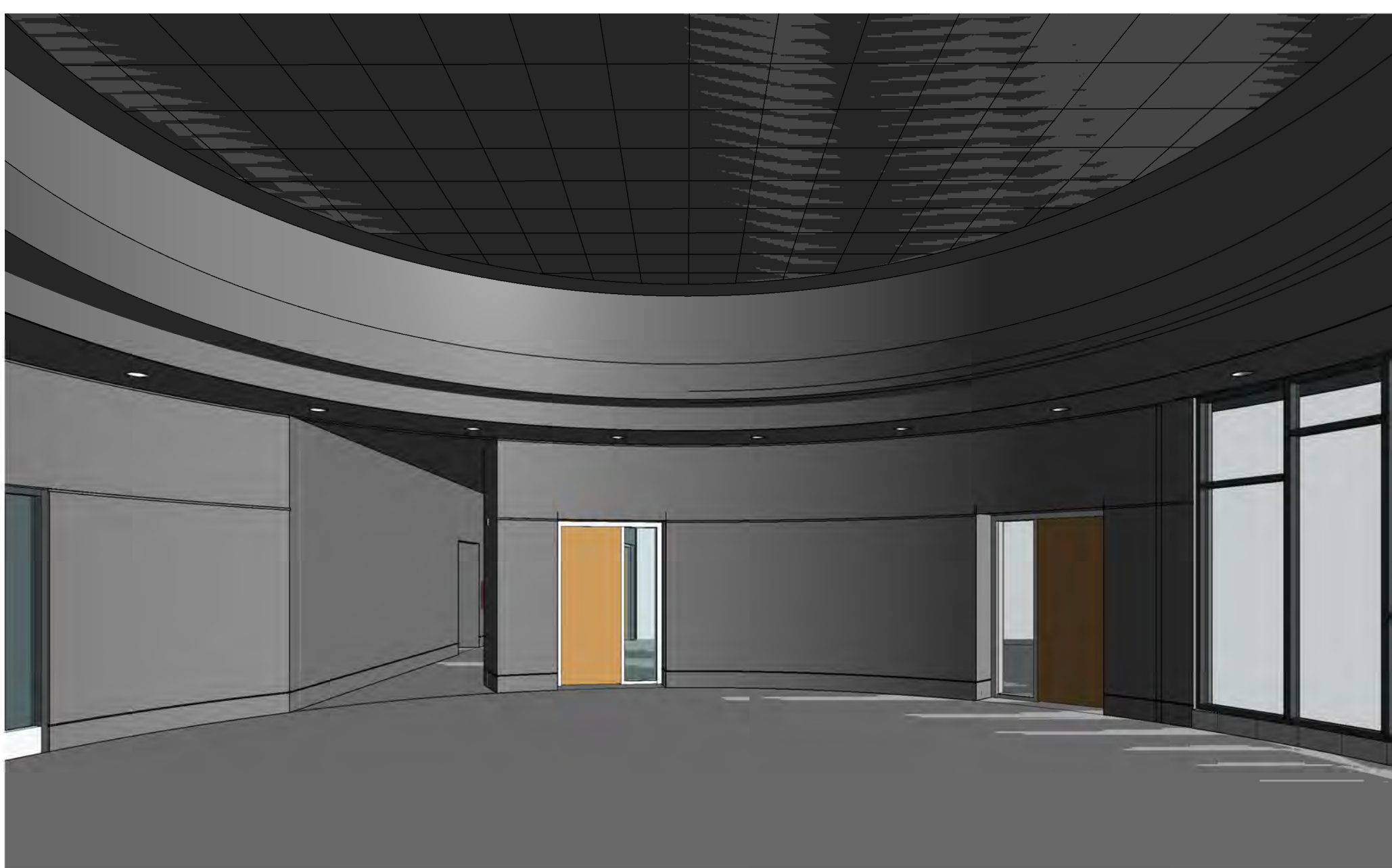
1 Gallery Elevation North
A793
1/4" = 1'-0"



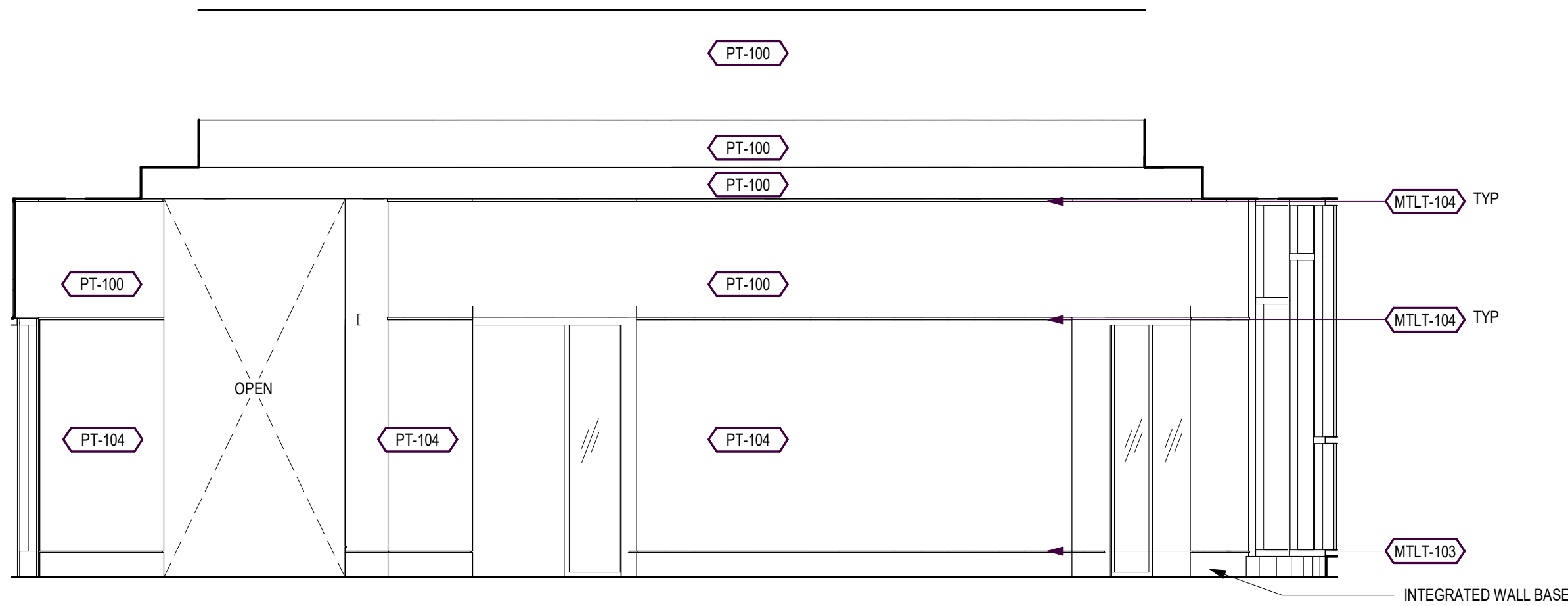
6 Gallery Perspective View South
A793



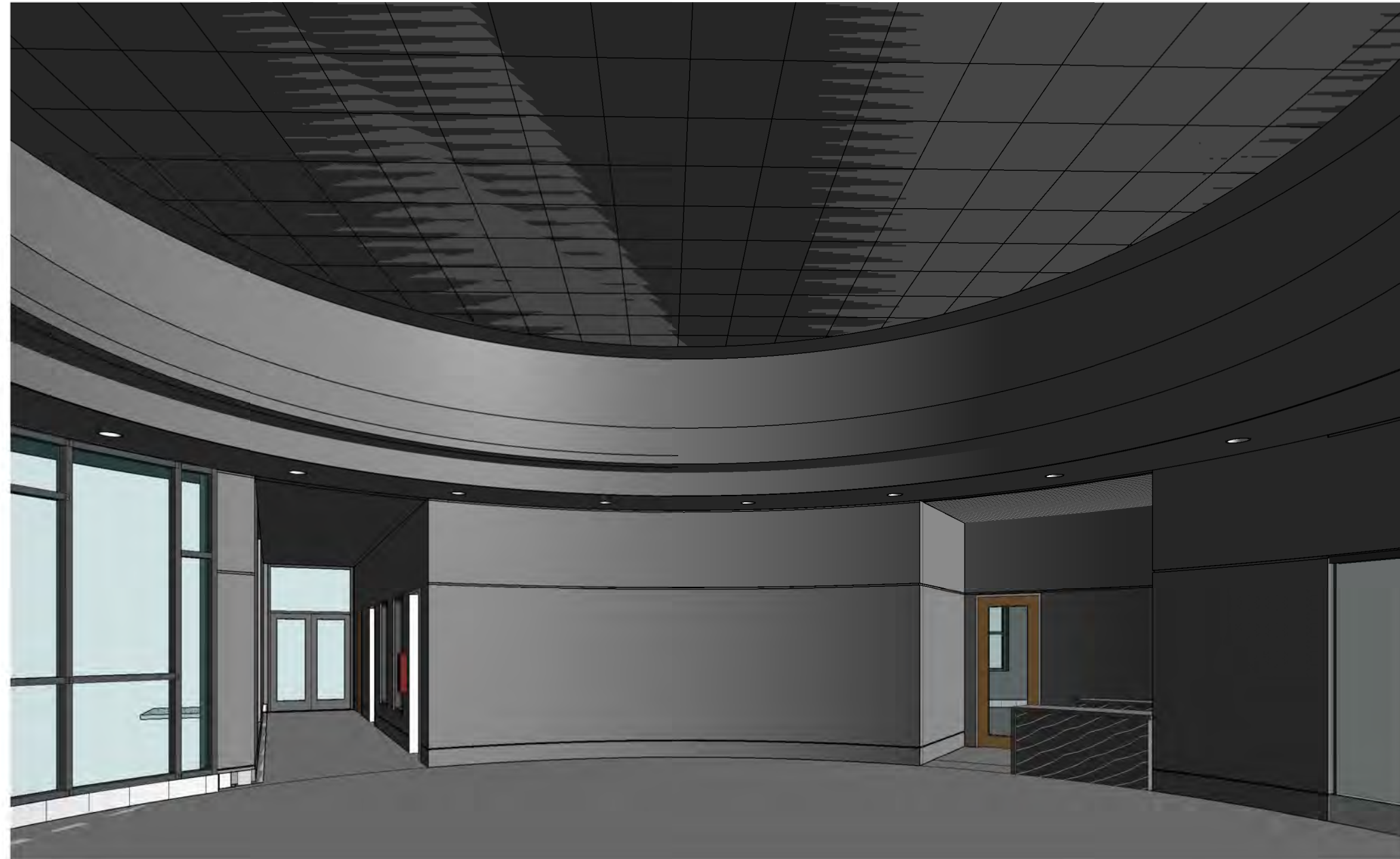
3 Gallery Elevation South
A793
1/4" = 1'-0"



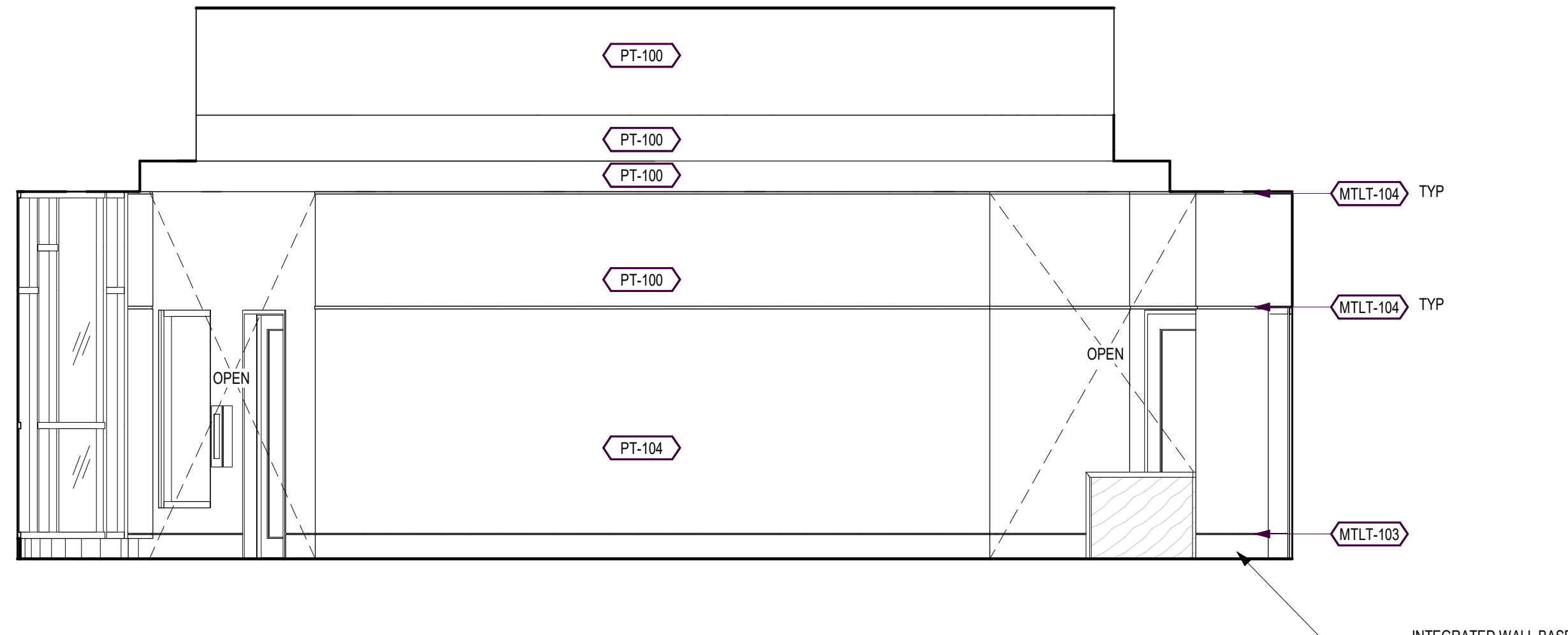
7 Gallery Perspective View East
A793



2 Gallery Elevation East
A793
1/4" = 1'-0"

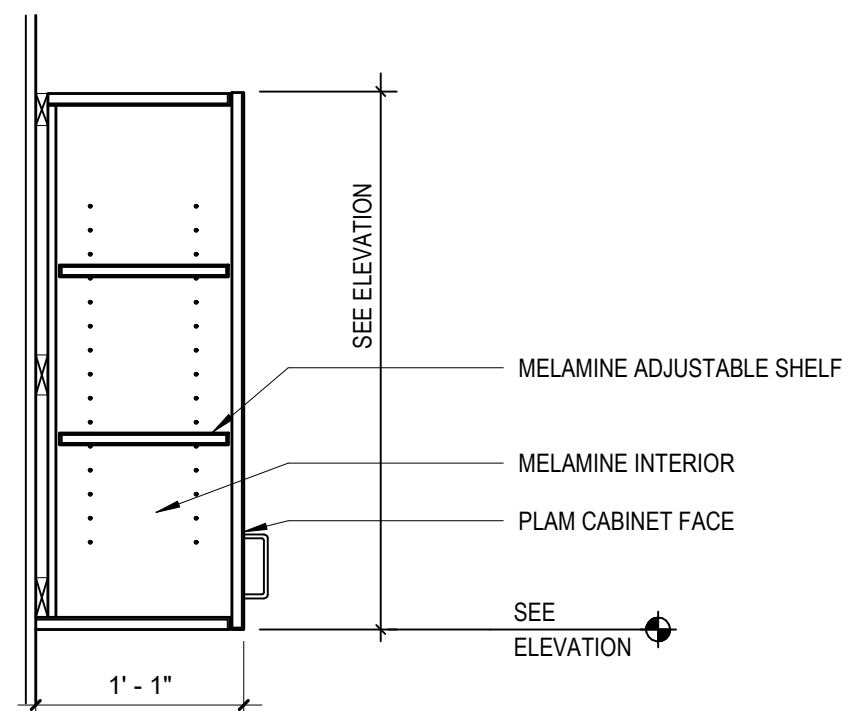


8 Gallery Perspective View West
A793

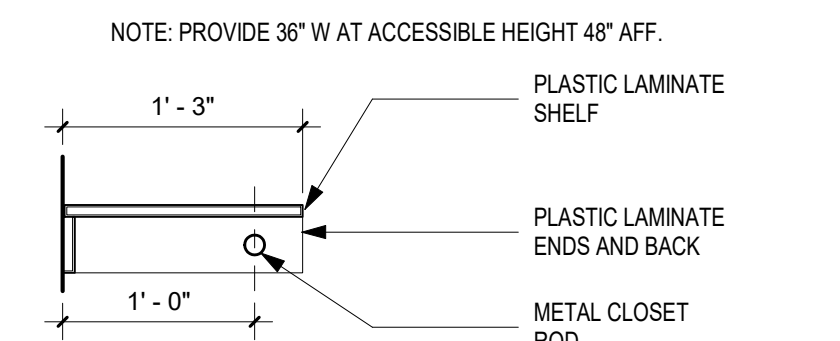


4 Gallery Elevation West
A793
1/4" = 1'-0"

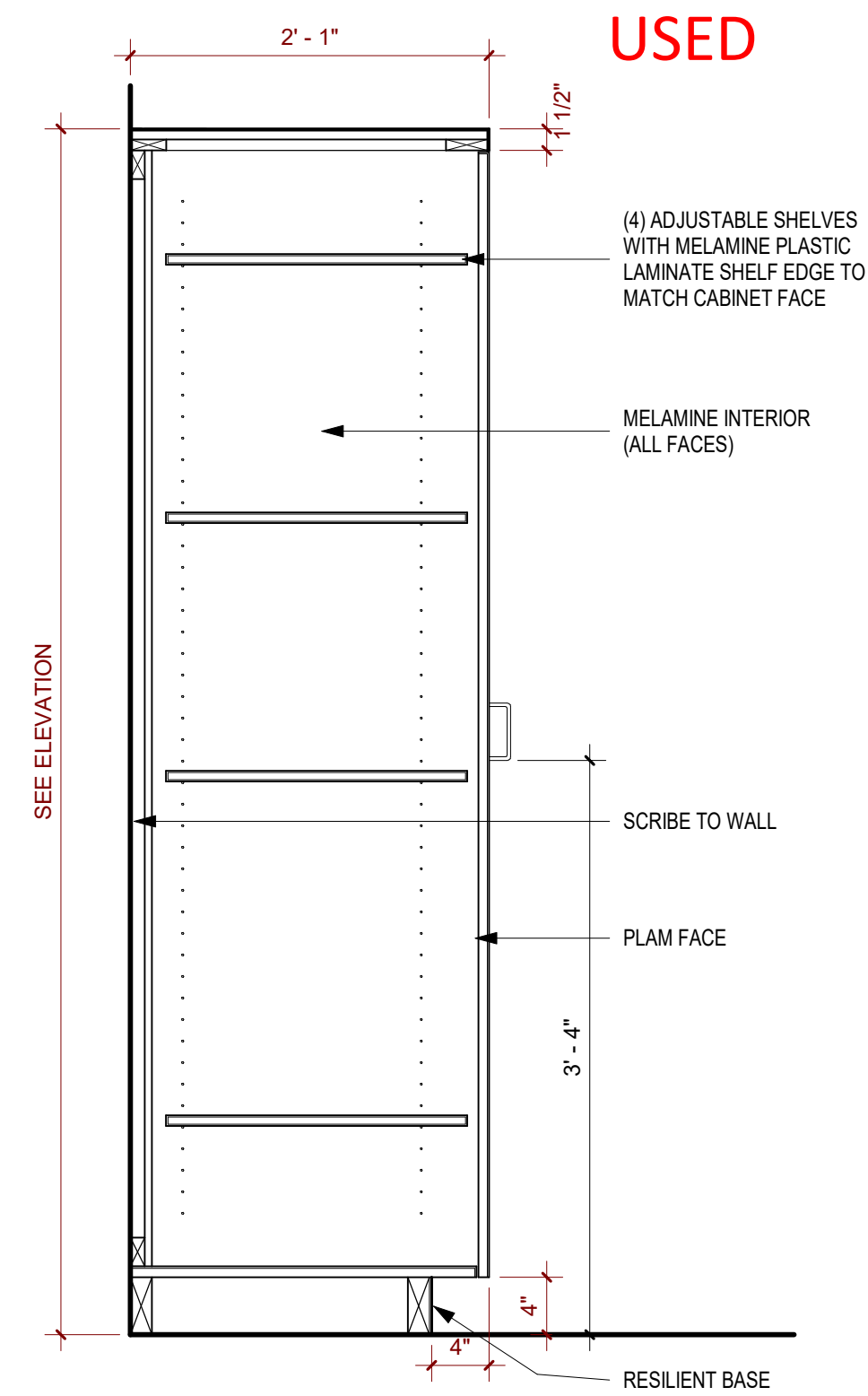
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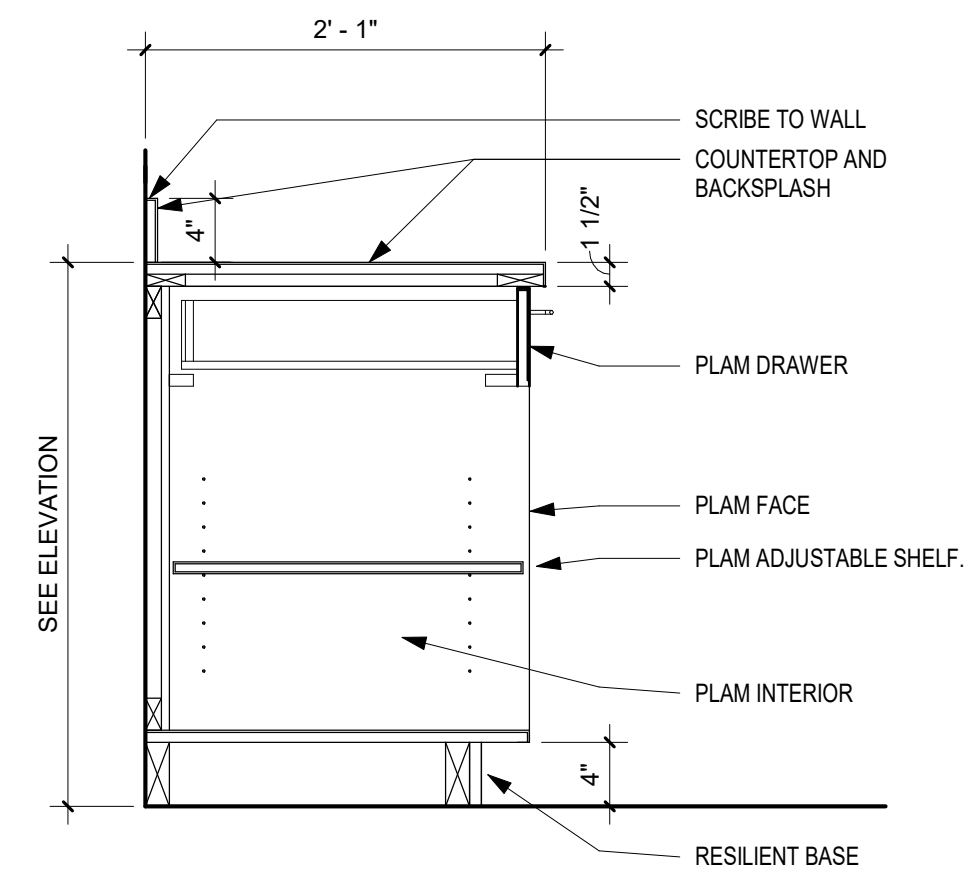
16 Millwork - Upper Cabinet
A795 1" = 1'-0"



14 Millwork - Closet Rod and Shelf
A795 1" = 1'-0"

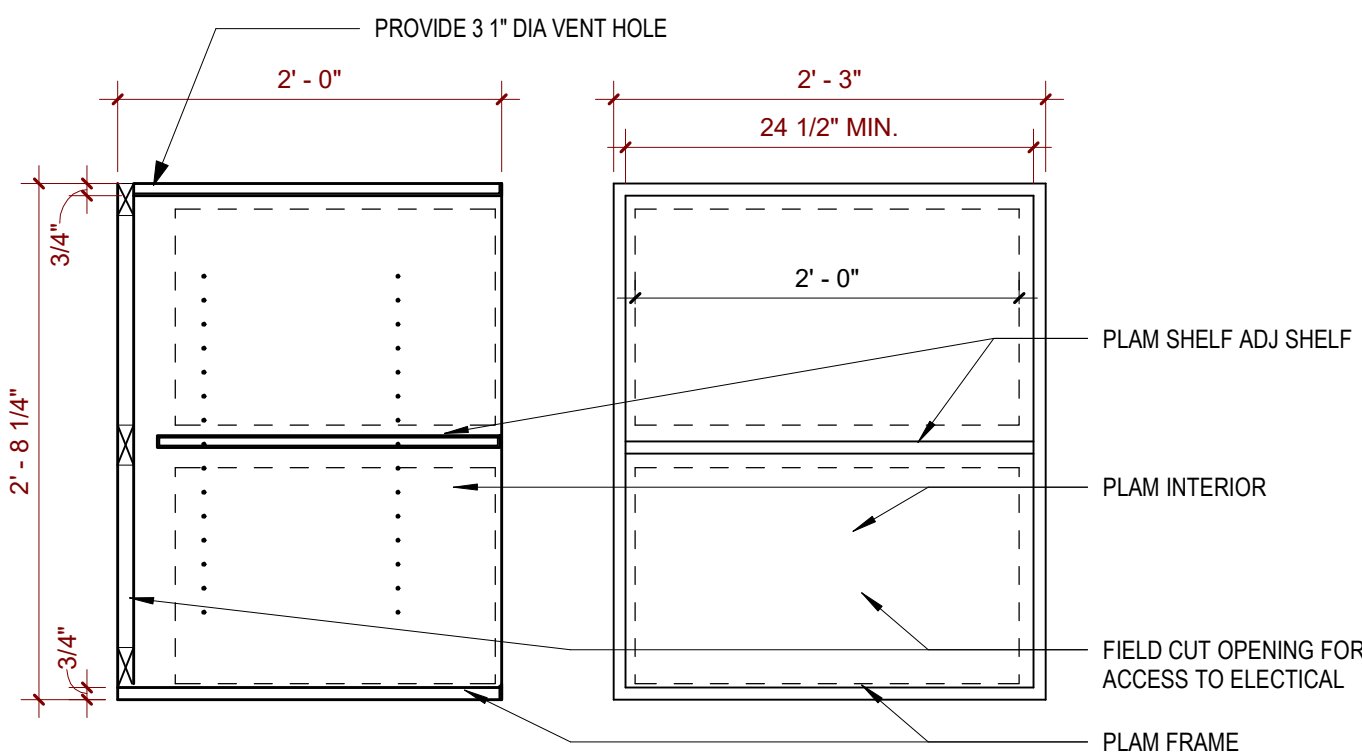


15 Millwork - Tall Cabinet
A795 1" = 1'-0"

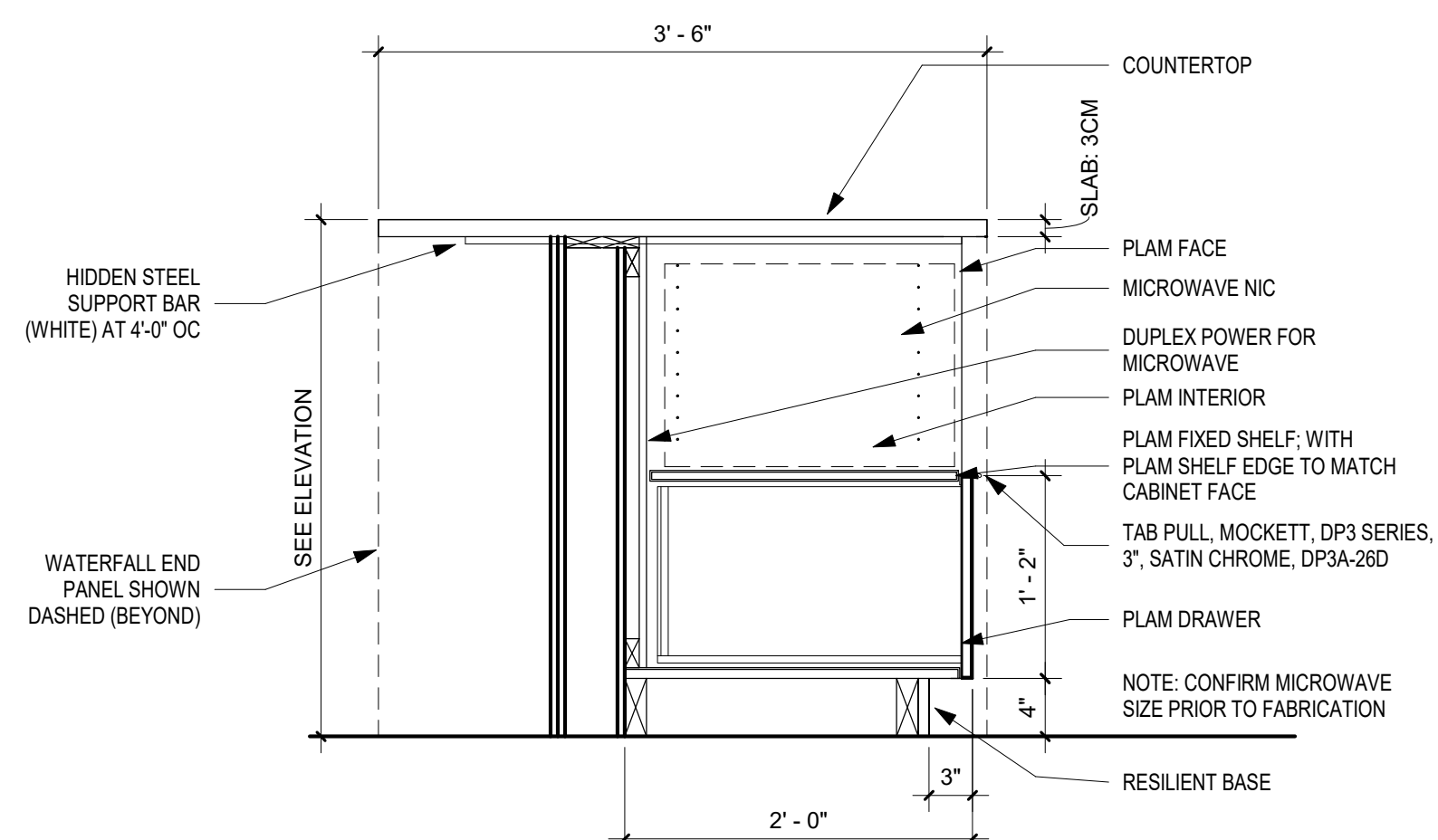


11 Millwork - Base Cabinet with Open Shelf
A795 1" = 1'-0"

USED

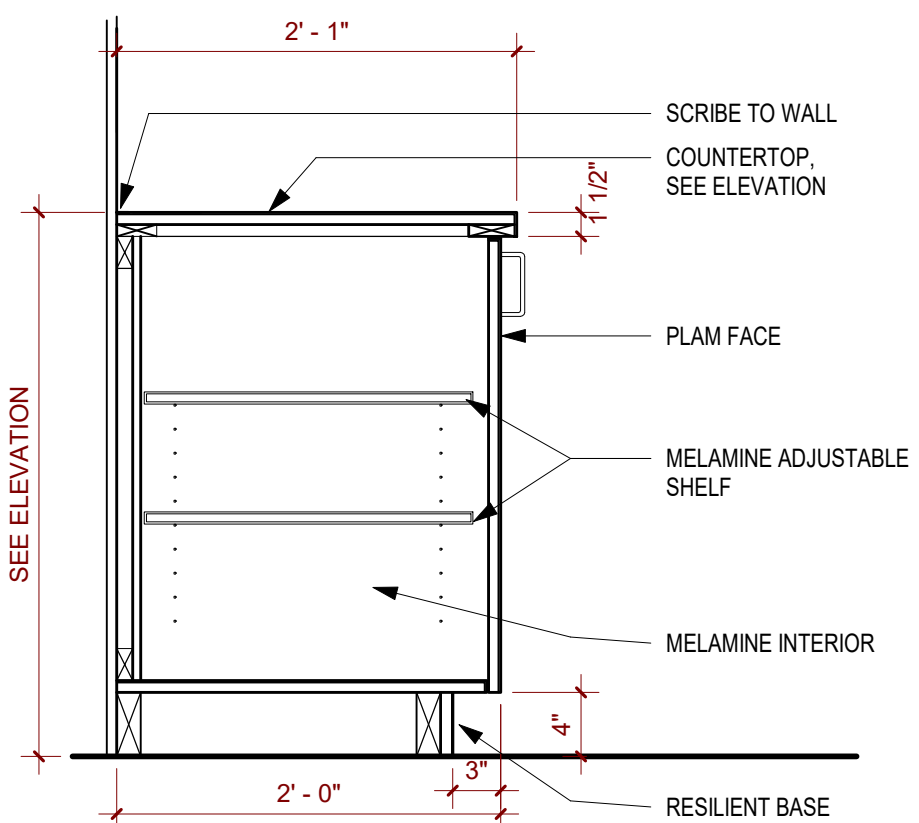


13 Millwork - Microwave Shelf
A795 1" = 1'-0"

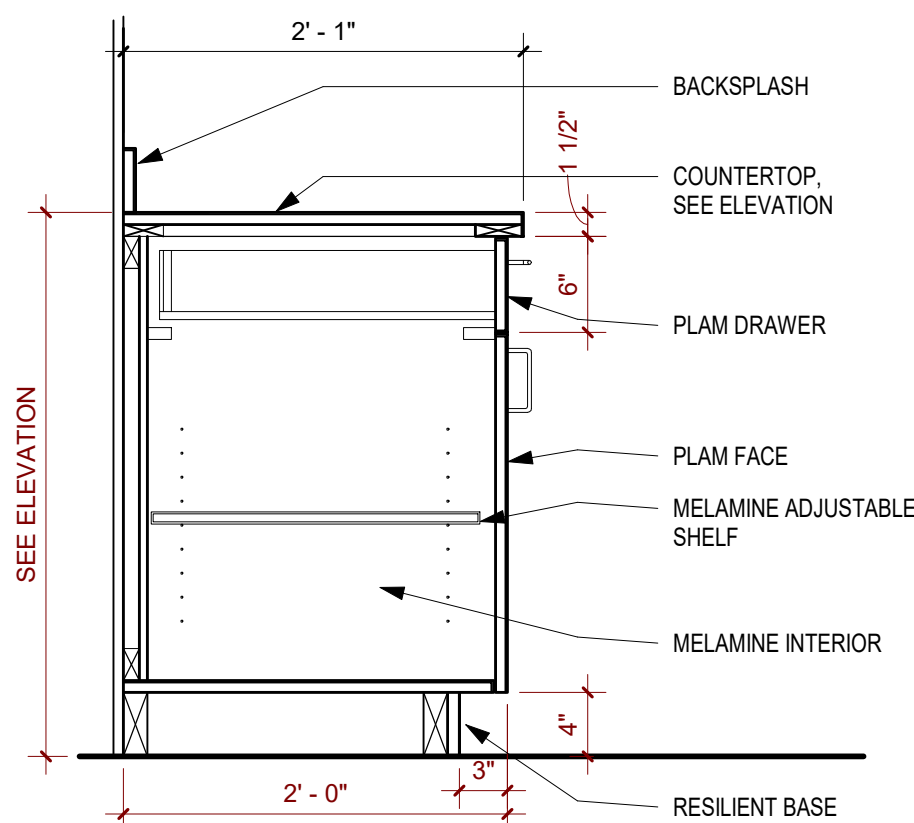


12 Millwork - Base Cabinet with Open Shelf @ Island
A795 1" = 1'-0"

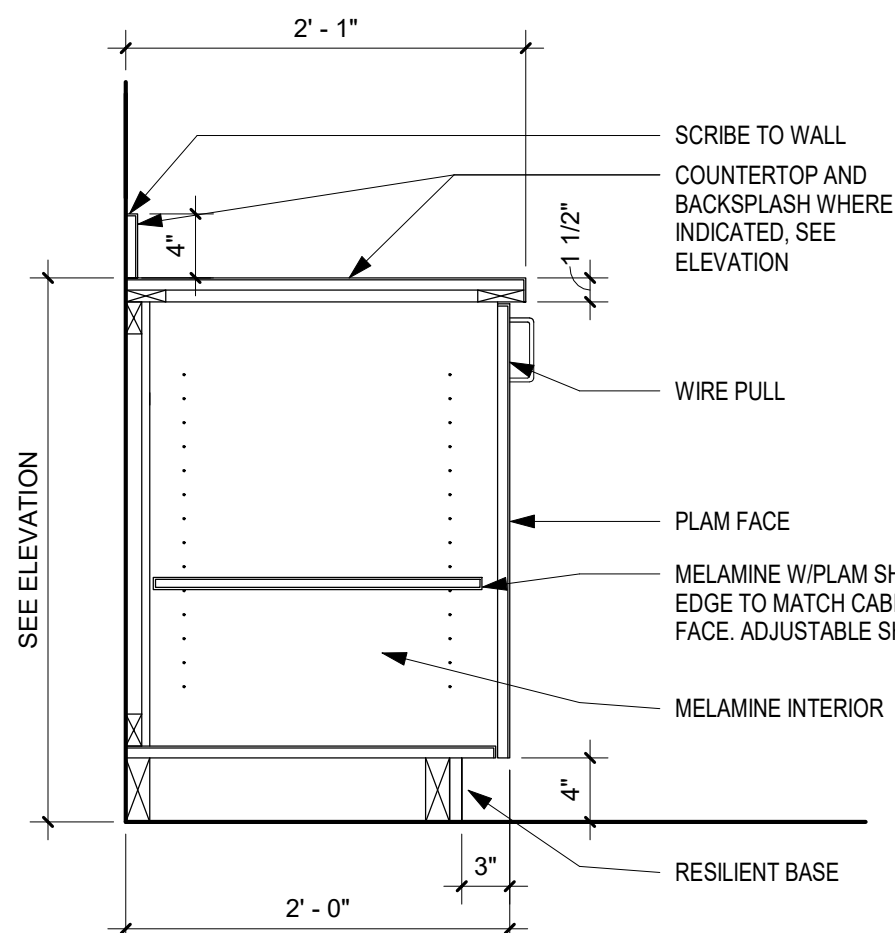
USED



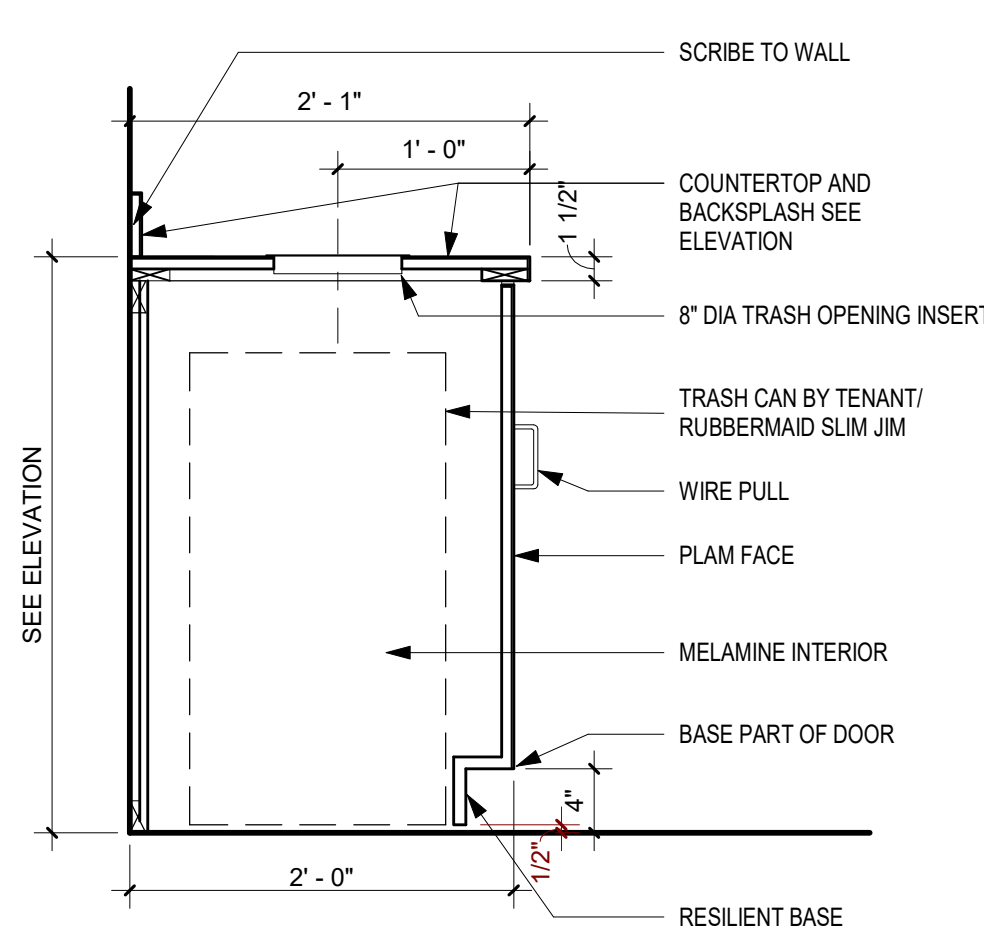
10 Millwork - Base Cabinet with Drawer and No Backsplash
A795 1" = 1'-0"



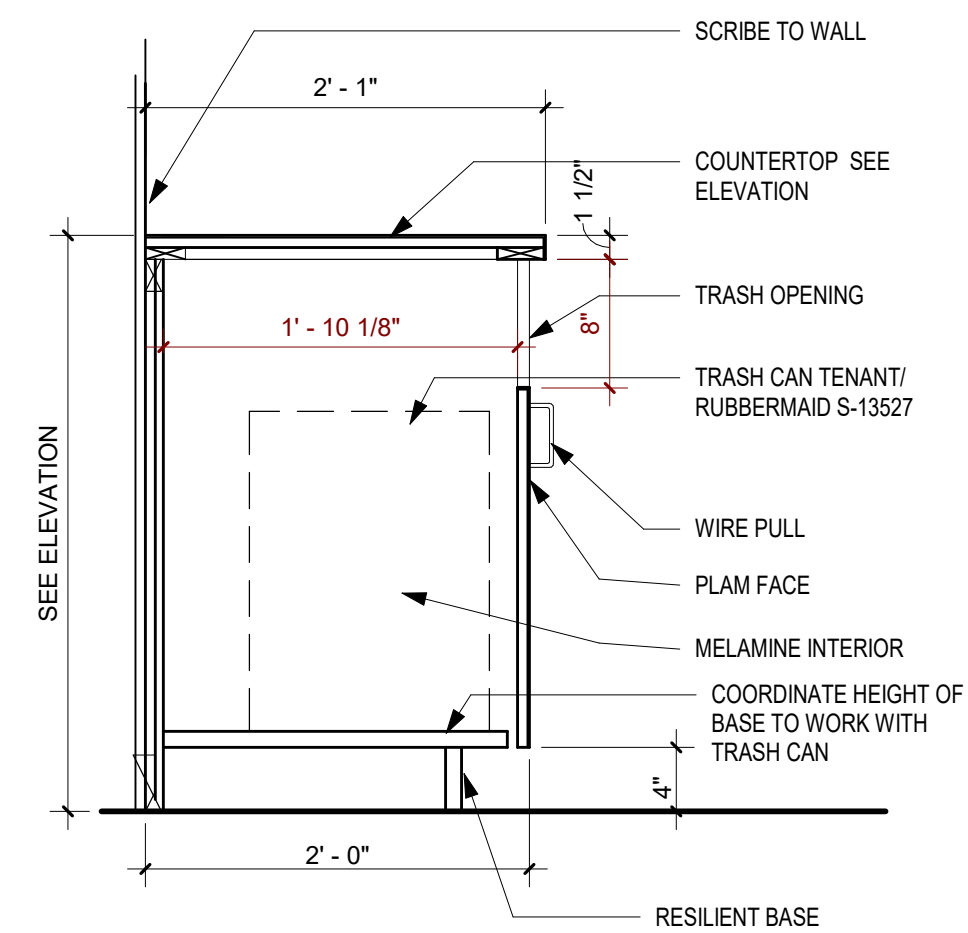
9 Millwork - Base Cabinet with Drawer and Backsplash
A795 1" = 1'-0"



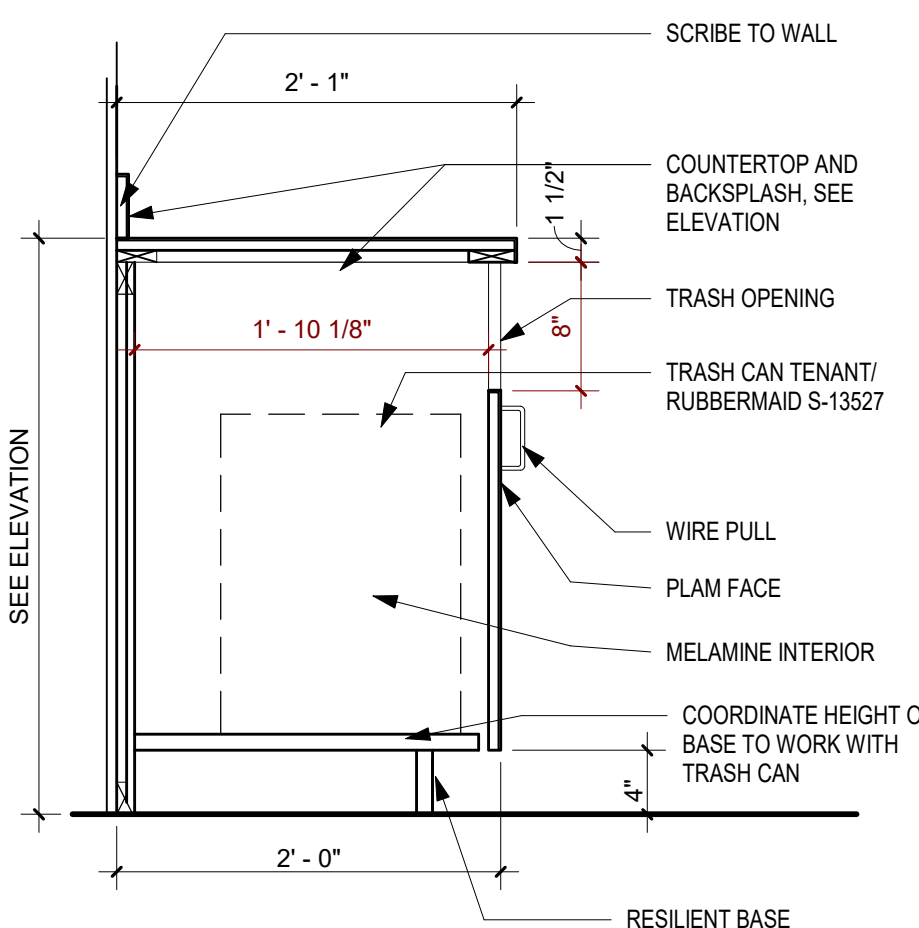
8 Millwork - Base Cabinet with Doors
A795 1" = 1'-0"



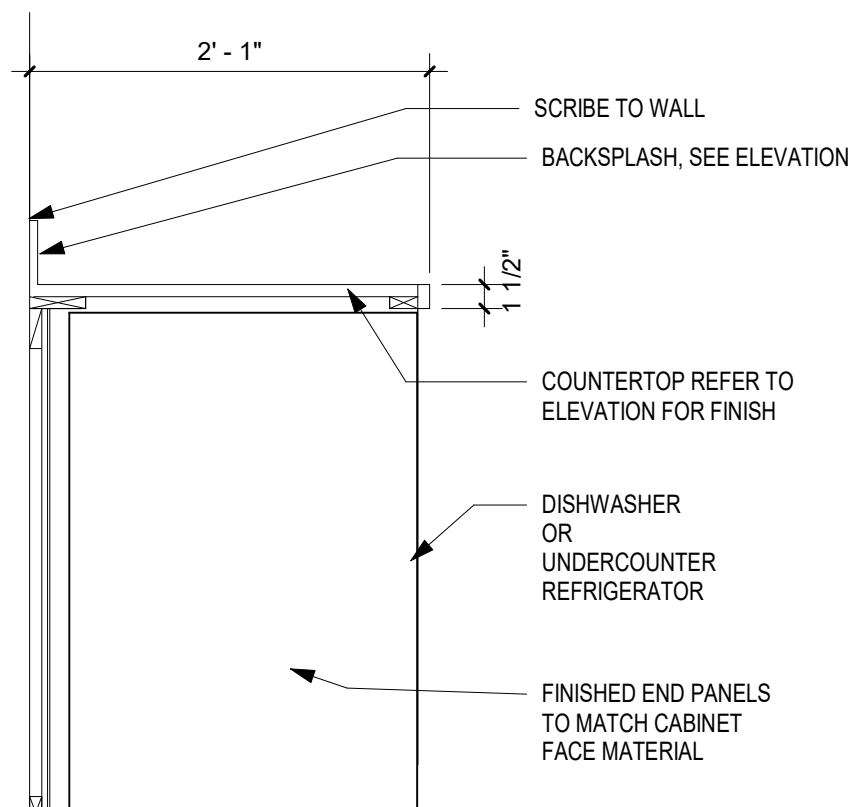
7 Millwork - Base Cabinet Trash/Recycle with Top Opening
A795 1" = 1'-0"



6 Millwork - Base Cabinet Trash/Recycle and No Backsplash
A795 1" = 1'-0"

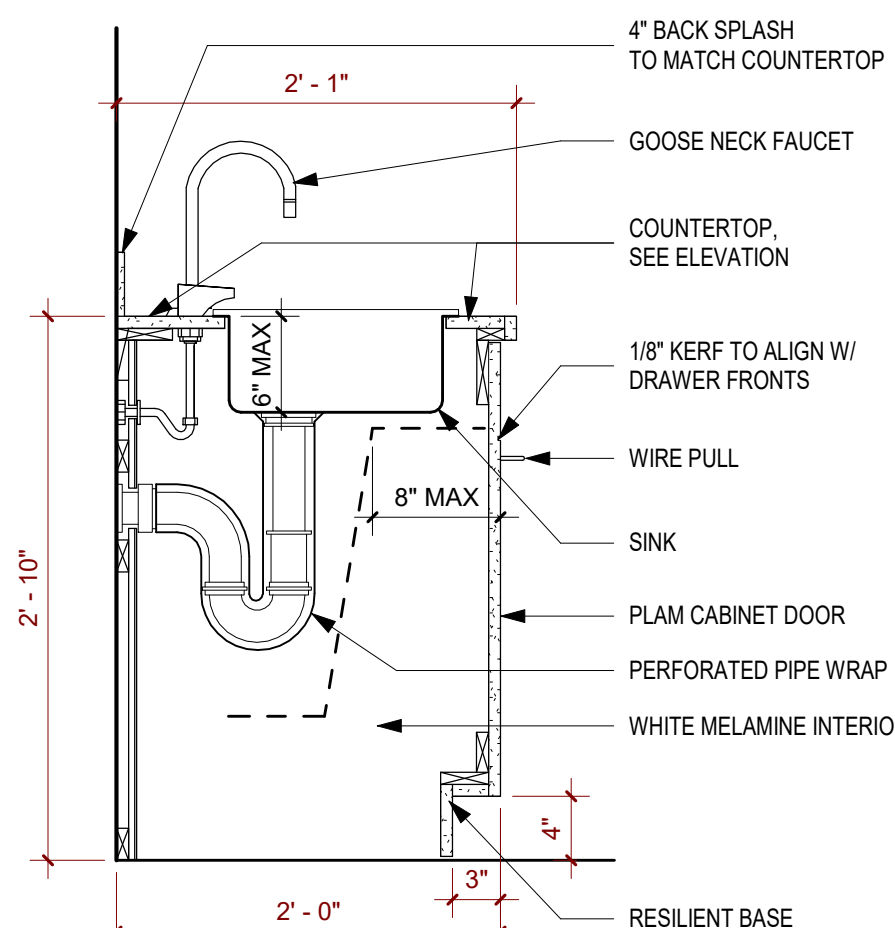


5 Millwork - Base Cabinet Trash/Recycle
A795 1" = 1'-0"

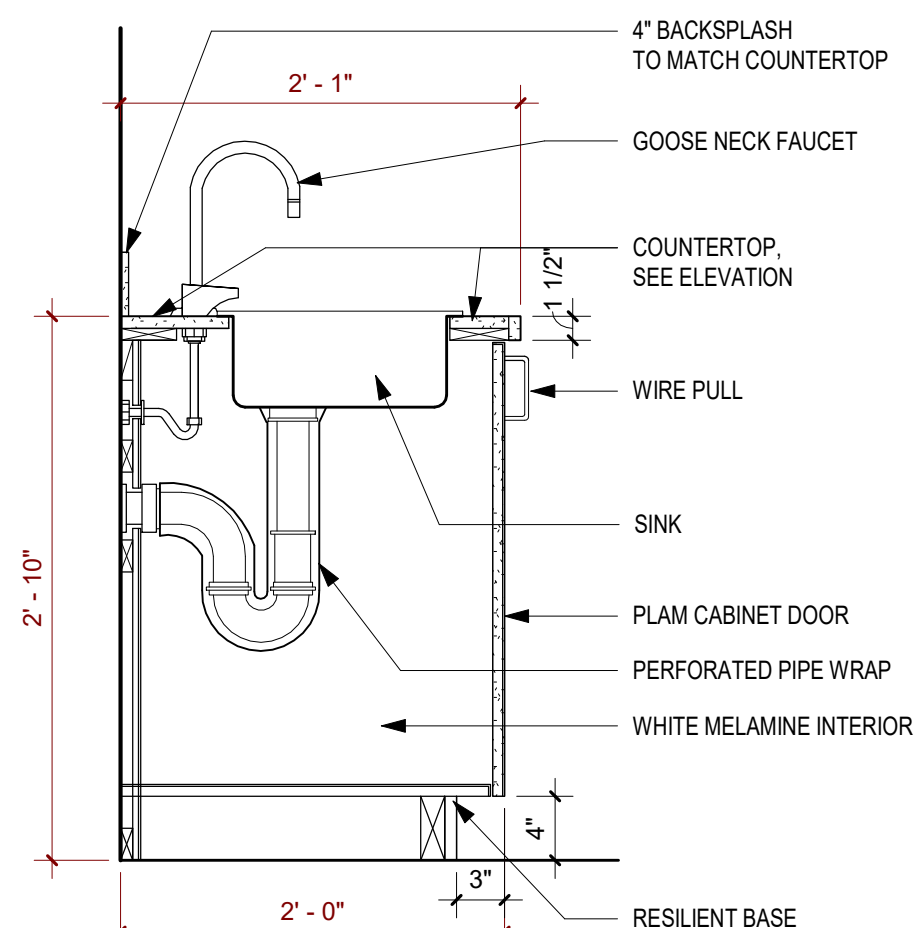


4 Millwork - Base Cabinet Equipment Space
A795 1" = 1'-0"

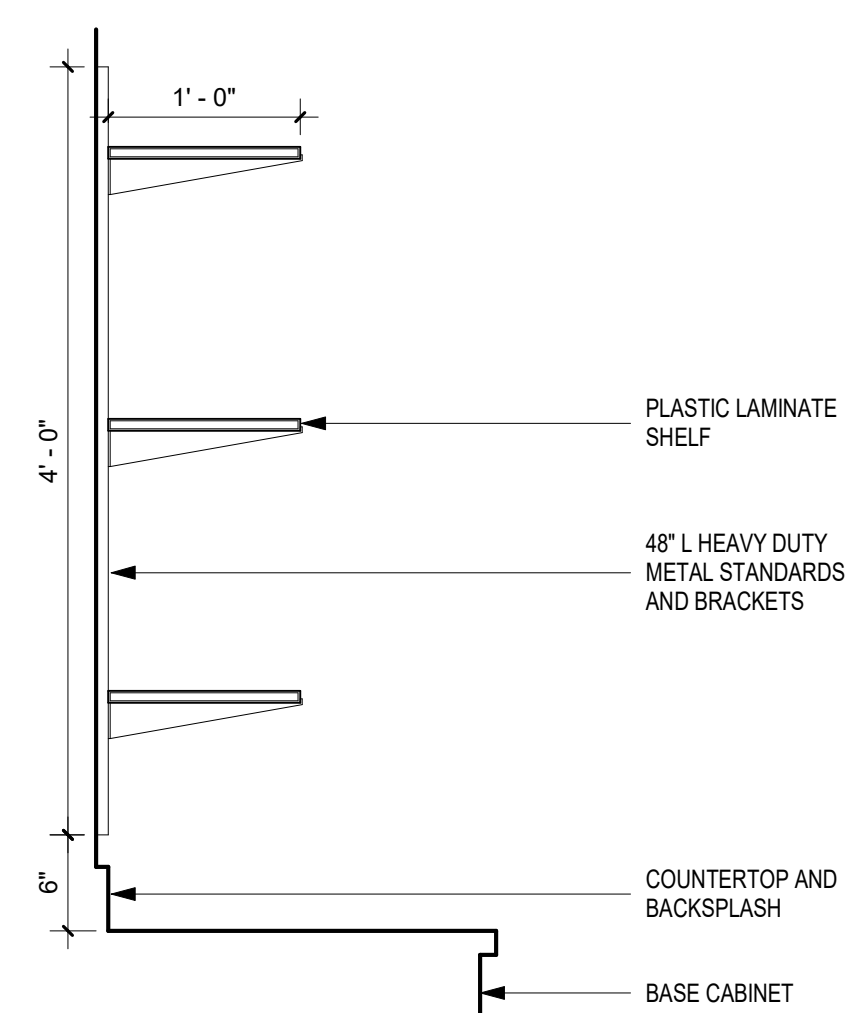
USED



3 Millwork - Base Cabinet at Sink, ADA
A795 1" = 1'-0"



2 Millwork - Base Cabinet at Sink
A795 1" = 1'-0"



1 Millwork - Adjustable Plastic Laminate Shelving
A795 1" = 1'-0"

Reflected Ceiling Plan Notes

- COORDINATE WITH ALL TRADES INVOLVED AND PREPARE COMPOSITE SHOP DRAWINGS TO ENSURE CLEARANCES FOR LIGHT FIXTURES, DUCTWORK, CEILINGS, CABLING ETC. NECESSARY TO MAINTAIN THE SPECIFIED FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR SLAB AS NOTED ON THE DRAWINGS. CLARIFY CONFLICTS WITH ARCHITECT IMMEDIATELY.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR:
A. GENERAL TYPE AND SPECIFIC LOCATION OF LIGHT FIXTURES.
B. LIGHT SWITCH LOCATIONS.
- ALL LIGHT FIXTURES TO BE CENTERED IN CEILING TILE, UNLESS OTHERWISE NOTED.
- PREPARE AND SUBMIT THE FOLLOWING DRAWINGS TO THE ARCHITECT FOR REVIEW AND COORDINATION PRIOR TO ORDER OR FABRICATION OF MATERIALS AND/OR INSTALLATION OF SYSTEM:
A. HVAC DRAWINGS.
B. ELECTRICAL DRAWINGS, INCLUDING SWITCH LOCATIONS.
C. SPRINKLER DIAGRAMS AND HEAD LOCATIONS.
- PROVIDE ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHT FIXTURES WITH DIRECTION BY THE BUILDING INSPECTOR. SPECIFIC LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND THE FINAL APPROVAL.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ENERGY CODES.
- ACOUSTICAL CEILING TO BE ACP-1 AT 11'-0" AFF FLOOR UNLESS OTHERWISE NOTED.
- GYPSUM BOARD CEILINGS TO BE PAINTED CEILING WHITE UNLESS OTHERWISE NOTED.
- GENERAL CONTRACTOR TO COORDINATE WITH THE ARCHITECT FOR ANY ACCESS PANELS REQUIRED IN GYPSUM BOARD CEILINGS.

Reflected Ceiling Plan Legend

- | | |
|--|--|
| | ACT-1 EXISTING 2' X 2' ACOUSTICAL CEILING TILE TO BE REMAIN
USG-76705 |
| | ACT-1 NEW ACOUSTICAL CEILING TILE TO MATCH EXISTING
USG-76705 |
| | GYPSUM BOARD SOFFIT |
| | MECHANICAL DIFFUSER
SEE MECHANICAL DRAWINGS |
| | EXIT SIGN |
| | RECESSED LED LIGHT FIXTURE
Columbia - LCAT24-HLHE in 3000K
Columbia - LCAT22-HLHE in 3000K |
| | LINEAR PENDENT LED LIGHT FIXTURE
FOR USE WITH ALTERNATE #1
EUREKA - SOLSTICE 74000-48 |
| | REUSED CIRCULAR PENDENT LIGHT FIXTURE |
| | PENDENT LIGHT FIXTURE
EUREKA - LED 13.30 DP13W, LED 3000K PHASE DIMMING 120V |
| | 6" RECESSED CAN DOWN LIGHT |

Registration

Name:

License No.:

Reflected Ceiling Key Notes "C"

Mark	Remark
C01	Enter Text Here
C02	Enter Text Here
C03	Enter Text Here

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Signed:

Revisions

No.	Date	Description
-----	------	-------------

Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / AIC:	S Obeleson

Wakan Tipi Center
4th Street East,
Saint Paul, MN 55106

Drawing Package

Sheet Title

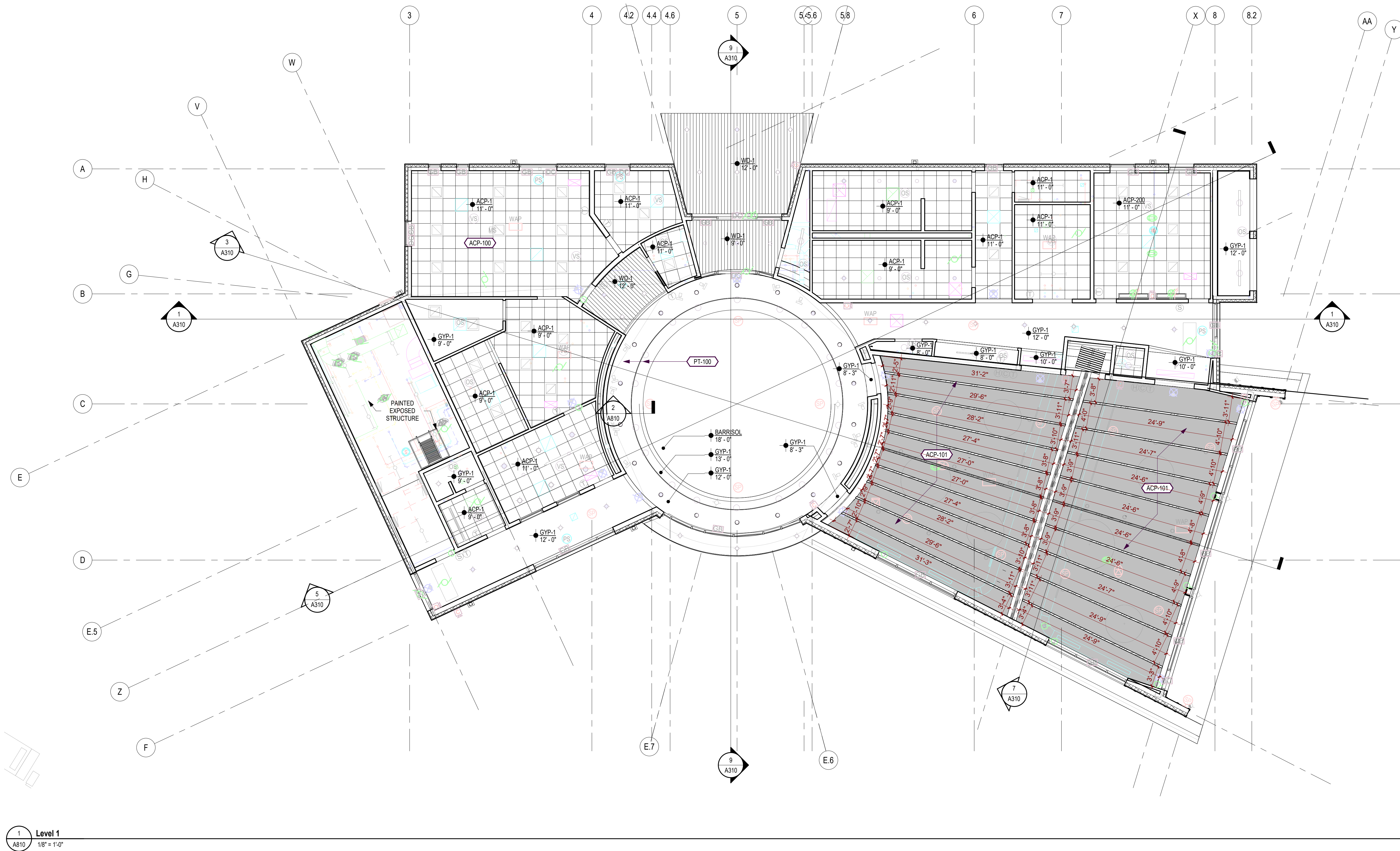
Reflected Ceiling Plan

Sheet Number

A810

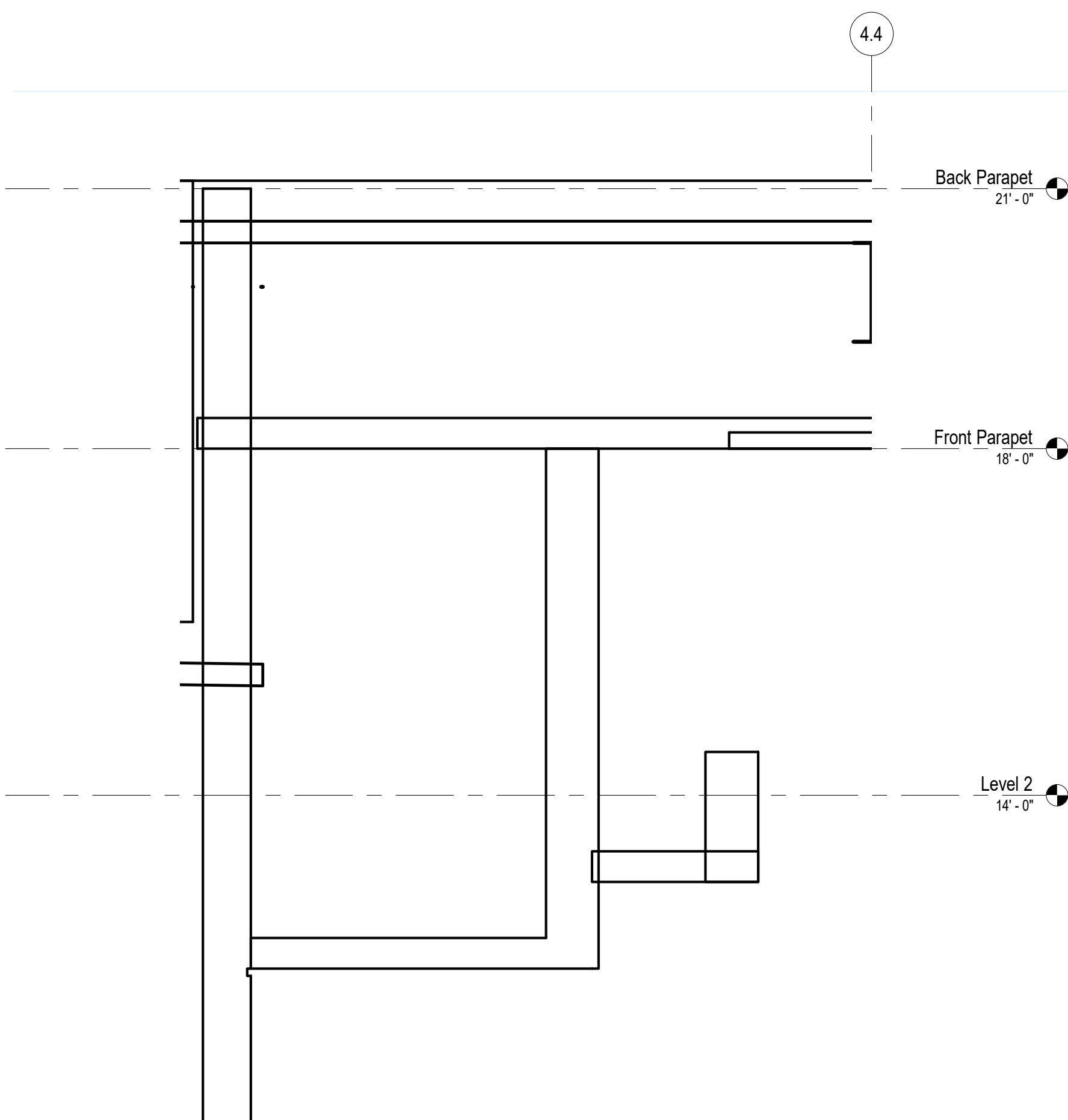
Current Revision

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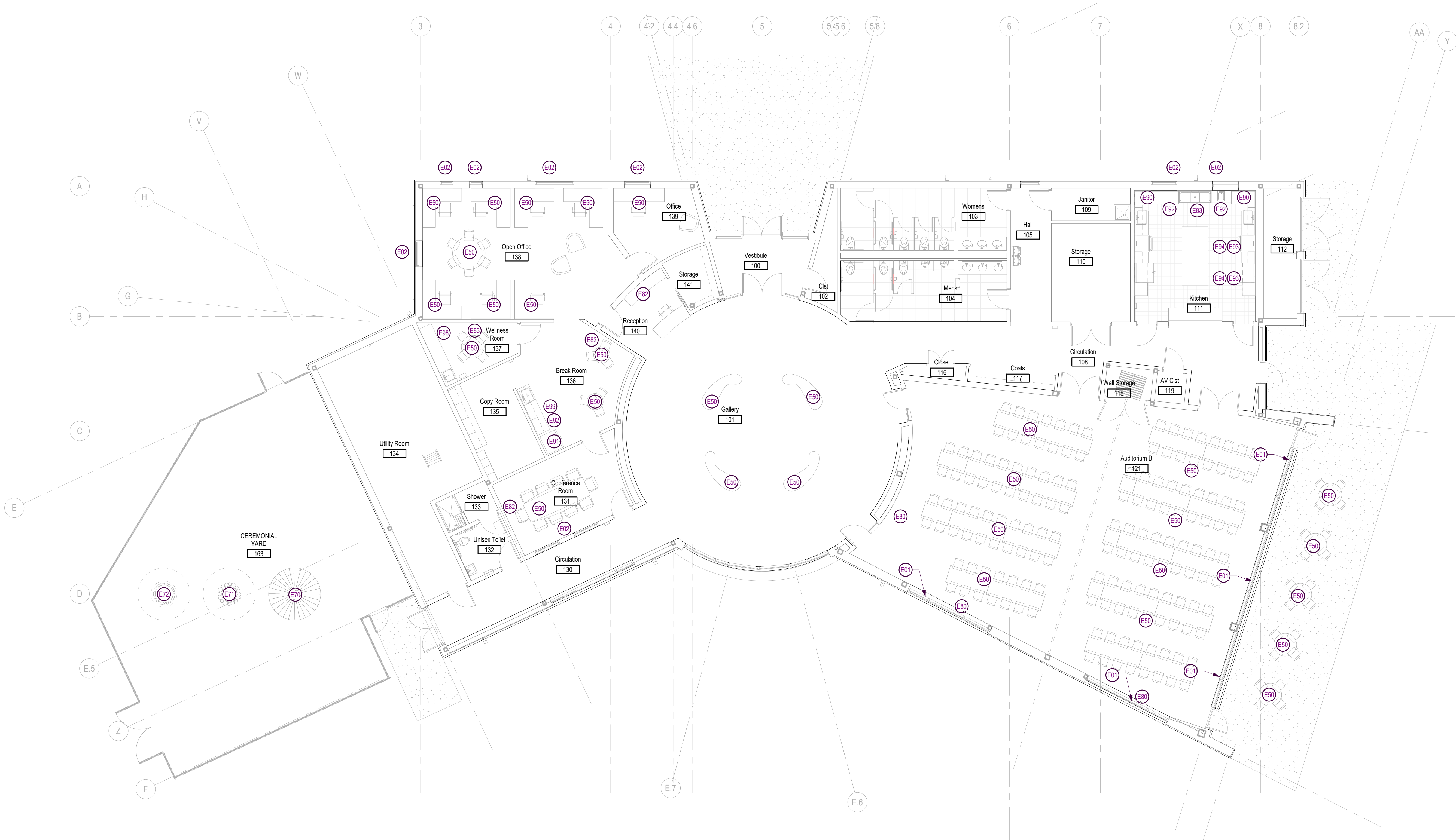
Level 1

1/8" = 1'-0"



Gallery Ceiling Section

3/4" = 1'-0"



Equipment Key Notes "E"	
Mark	Remark
E01	WINDOW TREATMENT, MOTORIZED DOUBLE ROLL, ONE 5% SHADE AND
E02	ONE BLACK OUT SHADE
E03	Enter Text Here
E50	FURNITURE - NIC
E70	SWEAT LODGE - NIC
E71	CERIMONIAL ALTER - NIC
E72	CERIMONIAL FIRE PIT - NIC
E80	PROJECTION SCREEN, MOTORIZED, 12'
E82	60" WALL MOUNTED PROJECTION MONITOR
E83	50" WALL MOUNTED PROJECTION MONITOR
E90	REFRIGERATOR WITH NSF CERTIFICATION
E91	REFRIGERATOR
E92	REFRIGERATOR WITH NSF CERTIFICATION
E93	REFRIGERATOR WITH NSF CERTIFICATION
E94	EXHAUST HOOD
E98	REFRIGERATOR, UNDERCOUNTER
E99	MICROWAVE

1 Furniture and Equipment Plan
A910 1/8" = 1'-0"

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No.	Date	Description
-----	------	-------------

Project Information

Phase:	90% Construction Set	Date:	04/23/2021
Project No.:	18-0720	PIC / A/C:	S Obeleson

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Saint Paul, MN 55106

Drawing Package

Sheet Title

Furniture and Equipment

Sheet Number

Current Revision

A910

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STRUCTURAL NOTES

DESIGN CODE: 2020 MINNESOTA BUILDING CODE

DESIGN LOAD CRITERIA:

DEAD LOAD:
LIVE LOAD:
ROOF -
FLOOR -
SNOW LOAD:
GROUND SNOW LOAD, Ps
IMPORTANCE FACTOR, Is
EXPOSURE FACTOR, Ce
THERMAL FACTOR, Ct
FLAT ROOF SNOW LOAD, Ps
WIND LOAD:
WIND SPEED (3-SECOND GUST)
EXPOSURE
RISK CATEGORY
INTERNAL PRESSURE COEFFICIENTS, GCpi

SELF WEIGHT
20 PSF
100 PSF
50 PSF
1.0
1.0
35 PSF • DRIFT
109 MPH
B
II
+/- 0.18

ADDITIONAL LOAD CRITERIA -

DESIGN DEFLECTION CRITERIA (UNO) -
FLOOR FRAMING
FLOOR FRAMING
METAL DECK
MASONRY SUPPORT

LIVE LOAD (LL), SPAN/360
LIVE LOAD (LL), SPAN/360
LIVE LOAD (LL), SPAN/360
LIVE LOAD (LL), SPAN/600

TOTAL LOAD (TL), SPAN/240
TOTAL LOAD (TL), SPAN/240
TOTAL LOAD (TL), SPAN/240

MATERIAL & COMPONENT DESIGN CRITERIA:

CAST-IN-PLACE CONCRETE
CONCRETE REINFORCING - BAR (TYPICAL)
CONCRETE REINFORCING - BAR (WELDABLE)
CONCRETE REINFORCING - WELDED WIRE FABRIC
PT TENDONS -
CEMENT -
AGGREGATE -

ASTM A615, GR 60
ASTM A706, GR 60
ASTM A185 (PLAIN),
ASTM A497 (DEFORMED)
ASTM A416, 270K
ASTM C150
ASTM C33, ASTM C330

CONCRETE MIX CRITERIA -

CLASS USE

CATEGORY

F'c, PSI

WT, PCF

AGG, IN

AE, %

E, PSI

I

FTG/FDN

INTERIOR SOG

EXTERIOR

ALL OTHER

0 0 0
0 0 0
3 0 0
0 0 0

5000
3500
5000
5000

145
145
145
145

1" 3/4"
3/4"
3/4"
3/4"

± 1
NA
± 1
NA

* INDICATES FOR CLASSES XX, XXX, XXXXX CONCRETE MIXES TO ADD DCl OR RHEOCRETE CNI CORROSION INHIBITOR AT A RATE OF 5 GALLONS PER CUBIC YARD.

REFERENCE ACI 318 CHAPTER 4 FOR ADDITIONAL INFORMATION REGARDING DURABILITY CATEGORY AND CLASS REQUIREMENTS.

CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH CLASS IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE. DOCUMENTATION SUBMITTED SHALL INCLUDE THE MIX PROPORTIONS, THE PLANT STANDARD DEVIATION, THE CALCULATED AVERAGE STRENGTH REQUIRED AND THE AVERAGE STRENGTH BASED ON HISTORICAL DATA OR TRIAL MIX DATA. FOR ADDITIONAL SUBMITTAL REQUIREMENTS, REFERENCE ACI 301, FOR REQUIREMENTS ON THE USE OF ADMIXTURES AND LIMITS ON THE WATER/CEMENTITIOUS MATERIALS RATIO FOR DURABILITY. REFERENCE THE PROJECT MANUAL/SPECIFICATIONS AND ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

STRUCTURAL STEEL -
STRUCTURAL SHAPES (UNO) -
WIDE FLANGE
CHANNELS, ANGLES AND PLATES
HOLLOW STRUCTURAL SECTIONS
HSS (Fy = 46 KSI)
PIPE, (Fy = 35 KSI)
BOLTS AND FASTENERS (UNO) -
STRUCTURAL RODS -
ANCHOR RODS -
HEADED SHEAR STUDS -
WELDED CONNECTIONS (E70XX ELECTRODES UNO) -
CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) CRITERIA. DEFINED WELD PROCEDURE TO BE APPROPRIATE FOR MATERIAL AND APPLICATION.

ASTM A992 OR
ASTM A572, GR 50
ASTM A581 OR
ASTM A572
ASTM A500, GR B
ASTM A 53, GR B
ASTM A325
ASTM F1554 GRADE 36
AWS D1.1 TYPE B,
ASTM A108

STEEL JOISTS AND JOIST GIRDERS -
JOISTS AND JOIST GIRDERS SHALL CONFORM TO THE STEEL JOIST INSTITUTE SPECIFICATIONS.

STEEL DECK -
DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE SPECIFICATIONS.

COLD FORMED METAL PRODUCTS -
COMPONENT DESIGN SHALL CONFORM TO AISI SPECIFICATION FOR DESIGN OF COLD FORMED METAL STRUCTURAL MEMBERS.
THINNER THAN 16GA Fy = 33 KSI
16GA FRAMING OR THICKER Fy = 50KSI

REQUIRED TESTS AND INSPECTIONS:

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL TESTING, INSPECTIONS AND SITE OBSERVATIONS BY THE BUILDING OFFICIAL, INDEPENDENT TESTING FIRM, SPECIAL INSPECTOR OR THE ARCHITECT/ENGINEER. ARRANGEMENTS FOR THIS WORK SHALL BE MADE WITH ADEQUATE ADVANCE NOTICE TO INSURE THAT ALL INSPECTIONS, TESTS AND OBSERVATIONS ARE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS.

MATERIAL TESTS AND INSPECTIONS - REFERENCE THE PROJECT MANUAL/SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. STRUCTURAL TESTS AND INSPECTIONS SHALL BE COMPLETED FOR THE FOLLOWING, UNLESS NOTED OTHERWISE.
1. ENGINEERED BACKFILL MATERIAL ANALYSIS AND COMPACTION TESTING.
2. CONCRETE CYLINDER COMPRESSIVE TESTS
3. STRUCTURAL MASONRY CONCRETE BLOCK, GROUT AND MORTAR COMPRESSIVE STRENGTH TESTS.

SPECIAL INSPECTIONS - INSPECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE AND SHALL INCLUDE WORK RELATED TO THE FOLLOWING.
1. CONCRETE PLACEMENT AND PLACEMENT OF REINFORCING.
2. MASONRY PLACEMENT AND PLACEMENT OF REINFORCING.
3. STRUCTURAL WELDING AND STRUCTURAL BOLTING INSPECTION, INCLUDING THE INSTALLATION OF ANCHORS IN CONCRETE OR MASONRY.

OSHA REGULATIONS
ALL OSHA REGULATIONS INCLUDING THE STEEL ERECTION REGULATIONS (29 CFR 1926.750 THROUGH .761) SHALL BE MAINTAINED DURING CONSTRUCTION.

GENERAL NOTES

1. THESE STRUCTURAL NOTES AND GENERAL SPECIFICATIONS DO NOT REPLACE THE PROJECT SPECIFICATIONS OR DRAWINGS. THESE ARE APPLICABLE UNLESS NOTED OTHERWISE. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
2. REVIEW RELATED ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF ALL ROOF, FLOOR, AND WALL OPENINGS OR AND ANY OTHER PROJECT REQUIREMENTS NOTING SHOW ON THE STRUCTURAL DRAWINGS. VERIFY OPENING DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH OTHER DISCIPLINE DRAWINGS OR THE CONTRACTOR REQUIRING THE OPENINGS.
3. IN NO CASE SHALL ANY STRUCTURAL COMPONENT BE MODIFIED OR ALTERED WITHOUT THE APPROVAL OF THE ENGINEER.
4. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL STRUCTURAL COMPONENTS AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. ANY REVIEW OF THE SHOP DRAWINGS BY THIS OFFICE IS ONLY FOR GENERAL CONFORMANCE TO THE STRUCTURAL REQUIREMENTS AND IN NO WAY GUARANTEES THE ACCURACY OR COMPLETENESS OF THE INFORMATION THEREON. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL THE CONSTRUCTION IS IN FULL COMPLIANCE WITH THE LATEST SET OF STRUCTURAL DRAWINGS.
6. PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE DRAWINGS AS EVIDENCE THAT HE HAS REVIEWED THEM.
7. MATERIALS AND PRODUCTS OTHER THAN THOSE SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS MAY BE CONSIDERED FOR USE PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE OWNER, ARCHITECT/ENGINEER AND THE BUILDING OFFICIAL. THE GENERAL CONTRACTOR SHALL PROVIDE DOCUMENTATION THAT THE MATERIAL OR PRODUCT MEETS THE STRUCTURAL DESIGN CRITERIA AND ALL OTHER PERFORMANCE REQUIREMENTS OF THE PROJECT.
8. STRUCTURAL MEMBERS INCLUDING JOISTS, SLABS, BEAMS, TRUSSES, COLUMNS AND WALLS ARE DESIGNED FOR DESIGN CRITERIA FOR THE COMPLETED STRUCTURE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING UNTIL COMPLETION OF THE PROJECT.
9. STRUCTURAL INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS SUPERSEDES CORRESPONDING STRUCTURAL INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS. TYPICAL DETAILS APPLY WHERE SPECIFIC DETAILS OR SECTIONS ARE NOT PROVIDED.
10. OBSERVATION VISITS TO THE JOB SITE BY THE ENGINEER DO NOT INCLUDE INSPECTION OF CONSTRUCTION METHODS OR SAFETY CONDITIONS OF THE WORK SITE. THESE VISITS SHALL NOT BE CONSIDERED AS REPLACING THE MATERIAL INSPECTIONS REQUIRED BY THE PROJECT MANUAL OR THE SPECIAL INSPECTIONS REQUIRED BY THE BUILDING CODE.

EXISTING CONSTRUCTION NOTES
1. THE EXISTING STRUCTURE THAT IS TO REMAIN IS GENERALLY SHOWN AS SHADED ON THE DRAWINGS. STRUCTURE TO BE REMOVED IS GENERALLY NOT SHOWN.
2. VERIFY EXISTING ELEVATIONS, DIMENSIONS AND BUILDING CONDITIONS AND ALL ITEMS ON PLANS AND DETAILS NOTED "EXISTING" BEFORE PROCEEDING WITH WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONCERNS OR DISCREPANCIES THAT ARE NOTED PRIOR TO PROCEEDING WITH THE WORK.
3. WHERE NEW CONSTRUCTION ATTACHES TO OR IS ADJACENT TO EXISTING CONSTRUCTION, THE FIELD MEASUREMENTS SHALL BE TAKEN PRIOR TO FABRICATION OF COMPONENTS TO VERIFY PROPER FIT-UP OF NEW WORK.
4. ALL EXISTING CONSTRUCTION AFFECTED BY REMOVAL OF SUPPORTIVE MEMBERS SHALL BE TEMPORARILY SUPPORTED/SHORED UNTIL NEW SUPPORTIVE MEMBERS ARE IN PLACE. DESIGN AND PERFORMANCE OF THE TEMPORARY SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

GENERAL SPECIFICATIONS

DIVISION 31: SITE WORK
SECTION 310100 - BUILDING EARTHWORK

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL INVESTIGATION/Soil REPORT DATED MONTH, DAY, YEAR PREPARED BY:
XXXXXX XXXXX XXXX
XXXX XXXXXX XXXXXX XXXX
XXXXXXXX XXXXXX XXXXXX
(XXX) XXX-XXXX
RECOMMENDATIONS AND SUGGESTIONS INCLUDED IN THE REPORT SHALL BE FOLLOWED UNLESS NOTIFIED OTHERWISE.
2. THE GENERAL CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A CONDITION THAT ALLOWS WORK TO PROCEED. POSTHOLE DRILLING, EXCAVATION, ERECTION OF THE STRUCTURE AND FOOTING TRENCHES SHALL BE MAINTAINED. PROVIDE BERMS, DAMS, CULVERTS, DRAINAGE TRENCHES WITH AUTOMATIC PUMPS, ETC. TO KEEP THE BUILDING SITE FREE OF STANDING WATER AND TO PREVENT SURFACE RUNOFF OR GROUNDWATER FROM DAMAGING THE FOOTINGS.
3. PRIOR TO CASTING FOOTINGS, A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE ALLOWABLE BEARING CAPACITY OF THE SOIL AT THE LOCATION OF THE FOOTING MEETS OR EXCEEDS THE DESIGN CRITERIA. IF THE BEARING CAPACITY IS NOT ADEQUATE, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND FOOTING CONSTRUCTION SHALL BE DELAYED UNTIL CORRECTIVE MEASURES ARE COMPLETED.
4. FOUNDATION TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE AFTER INSTALLATION OF FOOTINGS TO PREVENT DRAINAGE DUE TO WATER INFILTRATION. FOOTINGS SHALL BE PROTECTED BY SURFACE RUNOFF SHALL BE REINSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILLING.
5. FOR BACKFILL MATERIAL SPECIFICATIONS AND COMPACTION REQUIREMENTS, REFERENCE THE PROJECT SPECIFICATION AND THE GEOTECHNICAL REPORT.
6. FOR SLAB-ON-GRADE BASE MATERIAL SPECIFICATIONS AND PLACEMENT REQUIREMENTS, REFERENCE THE PROJECT SPECIFICATION AND THE GEOTECHNICAL REPORT.

SECTION 316316 - AUGERCAST PILES
1. PILES SHALL BE "X" DIAMETER AUGER CAST CONCRETE PILES. SEE PLANS AND SCHEDULES. SERVICE LOAD DESIGN CAPACITIES OF PILES TO BE AS FOLLOWS:
COMPRESSION: 25 TON
TENSION: 12.5 TO 24 TON
LATERAL: XX TON
2 ALL PILES SHALL BE ACCURATELY LOCATED. SEE SPECS. FOR TOLERANCES. IF THE PILE IS LOCATED OTHER THAN DESCRIBED ABOVE, THE ENGINEER SHALL BE NOTIFIED AND HE SHALL DETERMINE IF ANOTHER PILE SHALL BE DRILLED OR IF ADDITIONAL REINFORCING STEEL OR CONCRETE SHALL BE ADDED TO COMPENSATE FOR THE MISLOCATED PILE. IN EITHER CASE, THE PILING CONTRACTOR SHALL PAY FOR THE EXTRA WORK WITHOUT CHARGING THE OWNER.
3 PROVIDE THE ENGINEER WITH WRITTEN DOCUMENTATION OF ALL ASPECTS OF THE PILING OPERATION AS REQUIRED IN THE SPECIFICATIONS.
4. PILE LOAD TEST NOTES, AS FOLLOWS: (TYPICAL U N O)
A. PILE CONTRACTOR TO INSTALL 3 TEST PILES FOR EACH BUILDING. LOCATION OF TEST PILES TO BE COORDINATED WITH THE STRUCTURAL ENGINEER.
B. GEOTECHNICAL ENGINEER TO OBSERVE PILE LOAD TESTS AND PROVIDE A REPORT INDICATING RESULTS OF THE PILES TESTING AND VERIFICATION OF THE DESIGN CRITERIA INDICATED ABOVE.
C. PILE LOAD TEST TO BE AS PER ASTM D1143 AND SHALL DEMONSTRATE THE ABILITY OF THE PILES TO PROVIDE THE DESIGN CAPACITIES AND SETTLEMENT NOTED ABOVE.

DIVISION 03: CONCRETE
SECTION 033200 - CAST-IN-PLACE CONCRETE

1. FOR PRODUCT MATERIAL SPECIFICATIONS AND CONCRETE CLASS REQUIREMENTS, REFERENCE THE STRUCTURAL NOTES, MATERIAL & COMPONENT DESIGN CRITERIA AND THE PROJECT SPECIFICATION.
2. SUBMIT MIX DESIGN FOR EACH CLASS OF CONCRETE FOR REVIEW AND APPROVAL A MINIMUM OF 15 DAYS PRIOR TO COMMENCEMENT OF WORK. SUBMITTAL SHALL BE IN ACCORDANCE WITH THE PROCEDURE OUTLINED FOR THE SELECTION OF CONCRETE MIXTURE PROPORTIONS IN ACI 301 STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, SECTION 4.2.3. PROVIDE THE HISTORICAL FIELD TEST OR TRIAL BATCH DATA.
3. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH ACI SP-66, ACI DETAILING MANUAL/ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT, FOR PLACEMENT AND FABRICATION OF ALL REINFORCEMENT. DRAWINGS SHALL INCLUDE SIZES, LENGTHS, SPACING, QUANTITIES, BEND SCHEDULES AND THE LOCATION AND LENGTH OF BAR SPLICES.
4. BEFORE PLACING CONCRETE, CLEAN REINFORCEMENT OF FOREIGN PARTICLES OR COATINGS. PLACE, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. FOR CAST-IN-PLACE CONCRETE, PROVIDE COVER AS SHOWN BELOW, UNLESS NOTED OTHERWISE. ON DRAWINGS, AND AS SPECIFIED IN ACI 315, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, CHAPTER 7.
APPLICATION/CONDITION REQUIRED COVER, INCHES
CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER 3"
EXPOSED TO EARTH OR WEATHER:
NO. 6 THROUGH NO. 10 BARS 2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS, JOISTS: 1 1/2"
NO. 14 AND NO. 18 BARS 3/4"
NO. 11 BAR AND SMALLER
BEAMS, COLUMNS: 1 1/2"
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS 3/4"
SHELLS, FOLDED PLATE MEMBERS: 1/2"
NO. 8 BAR AND LARGER 1/2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER
5. REINFORCING IS SHOWN AS CONTINUOUS, BARS SHALL BE SPLICED USING EITHER LAP SPLICES, MECHANICAL CONNECTORS OR WELDED CONNECTIONS. MECHANICAL CONNECTORS AND WELDED CONNECTIONS SHALL DEVELOP A MINIMUM OF 126 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. THE LENGTH AND PLACEMENT OF LAP SPLICES SHALL BE AS SHOWN ON THE DRAWINGS. ALL LAP SPLICES NOT SPECIFICALLY DETAILED SHALL BE IN CONFORMANCE WITH THE TYPICAL SPLICE TABLES SHOWN ON THIS SHEET.
6. INSTALL WELDED STEEL WIRE FABRIC IN AS LONG LENGTHS AS PRACTICAL. LAP ADJOINING SHEETS AT LEAST ONE SPACING OF CROSS WIRES PLUS 2 INCHES.
7. UNLESS NOTED OTHERWISE, PROVIDE 2-#5 BARS, ONE EACH FACE, AROUND ALL OPENINGS IN CAST-IN-PLACE CONCRETE WALLS OR SLABS GREATER THAN 12"X12". EXTEND REINFORCING A MINIMUM OF 24-INCHES BEYOND THE EDGE OF THE OPENING IN BOTH DIRECTIONS. FOR LARGER OPENINGS, CONTACT THE ENGINEER FOR REINFORCING REQUIREMENTS.
8. WHERE SHOWN ON THE DRAWINGS PLACE ANCHORS, EMBEDMENTS, INSERTS OR OTHER COMPONENTS FURNISHED AND USED BY OTHERS AS REQUIRED, COMPONENTS SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT DURING CONCRETING.
9. ONE SET OF FOUR COMPRESSION TEST CYLINDERS SHALL BE TAKEN IN ACCORDANCE WITH ASTM C31 AND TESTED IN ACCORDANCE WITH ASTM C29 FOR EACH CLASS OF CONCRETE PLACED. ONE SET OF CYLINDERS SHALL BE TAKEN FOR EACH DAYS WORK. FOR EACH 150 CUBIC YARDS CAST, OR FOR EACH 5000 SQUARE FEET OF WALL OR SLAB CAST, WHICHEVER IS MORE STRINGENT. ONE CYLINDER SHALL BE TESTED AT 7-DAYS AND TWO AT 28-DAYS UNLESS NOTED OTHERWISE WITH ONE HELD IN RESERVE. FOR COLD WEATHER CONDITIONS, ONE ADDITIONAL CYLINDER SHALL BE TAKEN AND CURED UNDER WARMER CONDITIONS. IF REINSEMENTS, THE FIELD-CURED CYLINDER SHALL BE TESTED AT 28-DAYS UNLESS NOTED OTHERWISE.
10. FOR EACH SET OF COMPRESSION TEST CYLINDERS TAKEN, ONE SLUMP TEST SHALL BE TAKEN IN ACCORDANCE WITH ASTM C143.
11. FOR EACH SET OF COMPRESSION TEST CYLINDERS TAKEN, THE AIR CONTENT SHALL BE TESTED IN ACCORDANCE WITH ASTM A173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE OR ASTM C231, PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE.
12. PLACE CONCRETE IN ACCORDANCE WITH ACI 301, STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 305R, HOT WEATHER CONCRETING AND ACI 306R, COLD WEATHER CONCRETING. PROVISIONS FOR HOT WEATHER CONCRETING APPLY WHEN THE TEMPERATURE OF THE CONCRETE EXCEEDS 90-DEGREES FAHRENHEIT. PROVISIONS OF COLD WEATHER CONCRETING APPLY WHEN THE AVERAGE DAILY TEMPERATURE IS LESS THAN 40-DEGREES FAHRENHEIT AND THE AIR TEMPERATURE IS NOT GREATER THAN 50-DEGREES FOR MORE THAN ONE-HALF OF ANY 24 HOUR PERIOD.
13. ALL POST-INSTALLED MECHANICAL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS AND THE INSTALLATION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR. INDIVIDUAL PRODUCTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
14. ALL EXPANSION BOLTS PLACED IN EXISTING CONCRETE ARE TO BE HILTI KWIK BOLT TZ EXPANSION ANCHORS AND ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. ALL DOWELS OR THREADED RODS PLACED IN EXISTING CONCRETE ARE TO BE SET IN HILTI HIT-RE 500 V3 ADHESIVE. ALL ADHESIVE IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS INCLUDING SPECIAL INSPECTION.
16. CONCRETE WITH FIBERMESH REINFORCING SHALL CONTAIN ONLY 100 PERCENT VIRGIN POLYPROPYLENE FIBERS CONTAINING NO REPROCESSED OLEFN MATERIALS AND SPECIFICALLY MANUFACTURED TO AN OPTIMUM GRADATION FOR USE AS CONCRETE SECONDARY REINFORCEMENT. FIBER APPLICATION RATE SHALL BE DESIGNED BY DESIGNER AS TO MEET SPECIFIED CONCRETE STRENGTHS INDICATED IN CONCRETE MIX SUPPLIER TABLE.
17. MASS CONCRETE: ALL CONCRETE POURS IN WHICH THE MINIMUM CROSS-SECTIONAL DIMENSION APPROACHES OR EXCEEDS 2 1/2 FEET OR WHEN CEMENT CONTENTS ABOVE 600LB PER CUBIC YARD ARE USED ARE TO BE CONSIDERED MASS CONCRETE.
CONTRACTOR SHALL PROVIDE SPECIAL MIX, PLACEMENT AND CURING PROCEDURES FOR ALL MASS CONCRETE TO PREVENT CRACKING. PROCEDURES ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.
ACCELERATING ADMIXTURES SHALL NOT BE USED IN MASS CONCRETE.
WITH THE APPROVAL OF THE STRUCTURAL ENGINEER, FLY ASH OR OTHER ACCEPTABLE POZZOLAN SHALL BE UTILIZED TO REDUCE THE REQUIRED CEMENT CONTENT AND RESULTING HEAT OF HYDRATION.
CURING TEMPERATURE DIFFERENTIAL BETWEEN THE INTERIOR AND EXTERIOR CONCRETE SHALL NOT EXCEED 36 DEGREES. THIS REQUIREMENT MAY BE MAINTAINED THROUGH USE OF LOW INITIAL CONCRETE TEMPERATURES, INTERNAL COOLING, EXTERNAL INSULATING, ETC. CONTRACTOR TO SUBMIT A SPECIAL MIX DESIGN AND CURING PROCEDURE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.

DIVISION 05: METALS
SECTION 051200 - STRUCTURAL STEEL FRAMING

1. FOR PRODUCT MATERIAL SPECIFICATIONS, REFERENCE THE STRUCTURAL NOTES, MATERIAL & COMPONENT DESIGN CRITERIA AND THE PROJECT SPECIFICATION.
2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE AISI SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISI CODE OF STANDARD PRACTICE AND THE OSHA RULES FOR STEEL ERECTION (29 CFR 1926.750 THROUGH .761). PROVIDE COMPLETE INFORMATION NECESSARY FOR THE FABRICATION AND ERECTION OF THE STRUCTURE, INCLUDING PROFILES, SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTIONS, ATTACHMENTS, FASTENERS, CAMBERS AND LOADS. THE DRAWINGS SHALL CLEARLY DISTINGUISH BETWEEN SHOP AND FIELD BOLTS AND WELDS AND IDENTIFY THE TYPE OF HIGH STRENGTH BOLTED CONNECTION.
3. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE AISI SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. UNLESS NOTED OTHERWISE, 3/4-INCH DIAMETER ASTM A305-N BOLTS SHALL BE USED. WELDS SHALL BE DEFINED USING AWS STANDARD WELD SYMBOLS. FOR BEAM TO BEAM CONNECTIONS, PROVIDE DOUBLE-ANGLE FRAMED BEAM CONNECTIONS OR SINGLE PLATE SHEAR CONNECTIONS. WHERE BEAMS FRAME OVER THE TOP OF COLUMNS PROVIDE A FULL DEPTH, FITTED STIFFENER IN LINE WITH THE COLUMN CENTERLINE, UNLESS NOTED OTHERWISE. FABRICATOR SHALL DESIGN ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON PLANS.
4. STEEL BEAM LINTELS BEARING ON MASONRY OR CONCRETE SHALL HAVE A MINIMUM BEARING LENGTH OF 8-INCHES. STEEL ANGLE LINTELS, INCLUDING LOOSE LINTELS, SHALL HAVE A MINIMUM BEARING LENGTH OF 6-INCHES.
5. UNLESS NOTED OTHERWISE, SHOP PAINT ALL STRUCTURAL STEEL USING THE FABRICATOR'S STANDARD PRIMER SYSTEM. SUB-CRITICAL CONNECTIONS SHALL BE MASKED TO PREVENT PAINT FROM BEING APPLIED TO THE FAYING SURFACE.
6. ALL INSTALLED WELDS OR STRUCTURAL BOLTS SHALL BE VISUALLY INSPECTED FOR COMPLIANCE WITH THE PROJECT REQUIREMENTS PRIOR TO CONTINUING WITH WORK. SEE THE PROJECT MANUAL/SPECIFICATION FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.
7. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
8. STEEL FABRICATOR SHALL BE AISI CERTIFIED SHOP FOR CATEGORY 1 STEEL STRUCTURES AND SHALL MAINTAIN DETAILED QUALITY CONTROL PROCEDURES.
9. SPLICING OF STRUCTURAL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE.
10. ALL SHOP CONNECTIONS MAY BE WELDED OR BOLTED USING 1/2" MINIMUM DIAMETER A325 BOLTS. ALL FIELD CONNECTION BOLTED CONNECTIONS SHALL BE USING PRETENSIONED 1/2" MINIMUM DIAMETER A325.
11. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1. ALL FILLERS MATERIAL SHALL HAVE MINIMUM YIELD STRENGTH OF 58 KSI.
12. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES, BURNING HOLES AND TORCH CUTTING AT THE SITES IS NOT PERMITTED.
13. ALL STEEL FRAMING EXPOSED TO WEATHER, EXTERIOR BRICK SHELF ANGLES, AND EXTERIOR STEEL LINTELS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. REPAIR OF GALVANIZED SURFACES SHALL BE PERFORMED WITH A MINIMUM OF 3 COATS OF COLD GALVANIZED FINISH.
14. GENERAL CONTRACTOR RESPONSIBLE TO ERECT AND MAINTAIN TEMPORARY BRACING TO INSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURE DURING ERECTION UNTIL PERMANENT CONNECTIONS HAVE BEEN COMPLETED.

SECTION 052100 - STEEL JOISTS FRAMING
1. FOR PRODUCT MATERIAL SPECIFICATIONS, REFERENCE THE STRUCTURAL NOTES, MATERIAL & COMPONENT DESIGN CRITERIA AND THE PROJECT SPECIFICATION.
2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS. THE DESIGN SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. PROVIDE COMPLETE INFORMATION NECESSARY FOR THE FABRICATION AND ERECTION OF THE STRUCTURE INCLUDING NUMBER, TYPE, LOCATION, SPACING, AND ANCHORAGE OF ALL ELEMENTS. ELEMENTS SHALL BE IDENTIFIED ON THE ERECTION DRAWINGS BY MARK WHICH WILL APPEAR ON THE BILL OF MATERIALS. IDENTIFY THE TYPE OF SHOP PAINT USED.
3. FOR JOISTS IDENTIFIED AS SPECIAL ON THE DRAWINGS, THE JOIST SUPPLIER SHALL DESIGN THE JOISTS TO SUPPORT THE LOADS SHOWN ON THE DRAWINGS. THE DESIGN LOADS USED SHALL BE SHOWN ON THE SHOP DRAWINGS.
4. UNLESS NOTED OTHERWISE, SHOP PAINT ALL STRUCTURAL STEEL USING THE FABRICATOR'S STANDARD PRIMER SYSTEM.
5. FOR K-SERIES JOISTS BEARING ON MASONRY OR CONCRETE, THE END OF THE JOISTS SHALL EXTEND A DISTANCE OF NOT LESS THAN 4-INCHES BEYOND THE EDGE OF THE SUPPORT AND BE ANCHORED TO A STEEL BEARING PLATE. THE PLATE SHALL BE LOCATED NOT MORE THAN 1/2-INCH FROM THE FACE OF THE WALL AND BE A MINIMUM OF 6-INCHES WIDE. FOR K-SERIES JOISTS BEARING ON STEEL SUPPORTS, THE END OF THE JOIST SHALL EXTEND A DISTANCE OF NOT LESS THAN 1/2-INCHES. THE JOIST SHALL BE ANCHORED WITH A MINIMUM OF TWO 1/8-INCH FILLET WELDS, EACH 1-INCH LONG OR TWO 1/2-INCH DIAMETER BOLTS.
6. FOR LH AND DLH-SERIES JOISTS AND JOIST GIRDERS BEARING ON MASONRY OR CONCRETE, THE END OF THE JOIST OR GIRDER SHALL EXTEND A DISTANCE OF NOT LESS THAN 6-INCHES BEYOND THE EDGE OF THE SUPPORT AND BE ANCHORED TO A STEEL BEARING PLATE. THE PLATE SHALL BE LOCATED NOT MORE THAN 1/2-INCH FROM THE FACE OF THE WALL AND BE A MINIMUM OF 8-INCHES WIDE. FOR LH AND DLH-SERIES JOISTS AND JOIST GIRDERS BEARING ON STEEL SUPPORTS, THE END OF THE JOIST SHALL EXTEND A DISTANCE OF NOT LESS THAN 4-INCHES. THE JOIST SHALL BE ANCHORED WITH A MINIMUM OF TWO 1/4-INCH FILLET WELDS, EACH 2-INCH LONG OR TWO 3/4-INCH DIAMETER BOLTS.
7. BRIDGING AND BRIDGING ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE OSHA RULES FOR STEEL ERECTION (29 CFR 1926.750 THROUGH .761) PRIOR TO RELEASE OF ERECTION CABLES OR BEFORE CONSTRUCTION LOADS ARE PLACED ON THE STRUCTURE.
8. ALL INSTALLED WELDS OR FASTENERS SHALL BE VISUALLY INSPECTED FOR COMPLIANCE WITH THE PROJECT REQUIREMENTS PRIOR TO CONTINUING WITH WORK.

SECTION 053100 - STEEL DECKING
1. FOR PRODUCT MATERIAL SPECIFICATIONS, REFERENCE THE STRUCTURAL NOTES, MATERIAL & COMPONENT DESIGN CRITERIA AND THE PROJECT SPECIFICATION.
2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE STEEL DECK INSTITUTE CODE OF RECOMMENDED STANDARD PRACTICE. THE DESIGN SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS. PROVIDE COMPLETE INFORMATION NECESSARY FOR THE PLACEMENT OF THE DECK INCLUDING TYPE OF DECK, LOCATION, AND ANCHORAGE REQUIRED. IDENTIFY THE DECK FINISH.
3. ON STEEL SUPPORT MEMBERS, PROVIDE 1 1/2-INCH MINIMUM BEARING. ON MASONRY OR CONCRETE SUPPORTS, PROVIDE 4-INCH MINIMUM BEARING.
4. DECK SHALL BE FASTENED TO SUPPORT MEMBERS, AT PERIMETER AND ALONG SIDELAPS AS SHOWN ON THE DRAWINGS. AS A MINIMUM, DECK SHALL BE ANCHORED TO SUPPORT MEMBERS AND ALONG THE PERIMETER AT A MAXIMUM SPACING OF 12-INCHES. SIDELAP FASTENERS SHALL BE INSTALLED AT A MAXIMUM SPACING OF 36-INCHES.
5. ALL INSTALLED FASTENERS SHALL BE VISUALLY INSPECTED FOR COMPLIANCE WITH THE PROJECT REQUIREMENTS PRIOR TO CONTINUING WITH WORK.

DIVISION 05: METALS
SECTION 054000 - COLD FORMED METAL FRAMING

1. FOR PRODUCT MATERIAL SPECIFICATIONS, REFERENCE THE STRUCTURAL NOTES, MATERIAL & COMPONENT DESIGN CRITERIA AND THE PROJECT SPECIFICATION.
2. SUBMITTALS SHALL INCLUDE PRODUCT DATA FOR EACH TYPE OF COLD-FORMED METAL FRAMING, ACCESSORY AND PRODUCT SPECIFIED. PROVIDE CERTIFIED SHOP DRAWINGS AND CALCULATIONS FOR ENGINEERED SYSTEMS AND ASSEMBLIES. SHOP DRAWINGS SHALL SHOW THE LAYOUT, SPACING, SIZE, THICKNESS, AND THE TYPE OF COLD-FORMED METAL FRAMING USED AS WELL AS THE FABRICATION, FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS AND ATTACHMENTS TO OTHER UNITS OF WORK.
3. INSTALL COLD-FORMED METAL FRAMING AND ACCESSORIES PLUMB, SQUARE, TRUE TO LINE, AND WITH CONNECTIONS SECURELY FASTENED, ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. FASTEN METAL FRAMING MEMBERS BY WELDING OR SCREW FASTENING, COMPLY WITH AWS REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK. LOCATE MECHANICAL FASTENERS AND INSTALL ACCORDING TO COLD-FORMED METAL FRAMING MANUFACTURER'S INSTRUCTIONS WITH SCREW PENETRATING JOINED MEMBERS BY NO LESS THAN 3 EXPOSED THREADS. PROVIDE TEMPORARY BRACING AND LEAVE IN PLACE UNTIL FRAMING IS PERMANENTLY STABILIZED.
4. FOR LOAD-BEARING WALLS, INSTALL CONTINUOUS TOP AND BOTTOM TRACKS SIZED TO MATCH STUDS. SQUARELY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACKS AND FASTEN BOTH FLANGES OF STUDS TO TRACKS. ALIGN JOISTS OVER STUDS OR CONTINUOUSLY REINFORCE TRACK TO TRANSFER LOADS. BRACE JOISTS TO WALLS OR WELDS WIDER THAN THE STUD SPACING. FABRICATE HEADERS OF COMPOUND SHAPES REQUIRED TO TRANSFER LOAD TO SUPPORTING STUDS, COMPLETE WITH CLIP-ANGLE CONNECTORS, WEB STIFFENERS, OR GUSSET PLATES. FRAME WALL OPENINGS WITH NOT LESS THAN A DOUBLE STUD AT EACH JAMB OF FRAME. INSTALL RUNNER TRACKS AND JACK STUDS AT SAME SPACING AS FULL HEIGHT STUDS ABOVE AND BELOW WALL OPENINGS AND ANCHOR TO JAMB STUDS WITH CLIP ANGLES OR BY WELDING. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN STUD FRAMING INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICES, CASEWORK, HEAVY TRIM, FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO FRAMING. INSTALL HORIZONTAL BRIDGING IN STUD SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND FASTEN AT EACH STUD INTERSECTION. INSTALL STEEL-SHEET DIAGONAL BRACING STRAPS TO BOTH STUD FLANGES. TERMINATE AT AND FASTEN TO REINFORCED TOP AND BOTTOM TRACK. FASTEN CLIP-ANGLE CONNECTORS TO MULTIPLE STUDS AT ENDS OF BRACING AND ANCHOR TO FRAME.
5. FOR NONLOAD-BEARING CURTAINWALLS, INSTALL CONTINUOUS TOP AND BOTTOM TRACKS SIZED TO MATCH STUDS. SQUARELY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACKS AND FASTEN BOTH FLANGES OF STUDS TO TRACKS. ISOLATE STEEL FRAMING FROM BUILDING STRUCTURE WHERE REQUIRED TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT. BRIDGING AND BRACING IN STUD FRAMING INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICES, CASEWORK, HEAVY TRIM, FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO FRAMING. INSTALL HORIZONTAL BRIDGING IN STUD SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND FASTEN AT EACH STUD INTERSECTION. INSTALL ADDITIONAL ROW OF HORIZONTAL BRIDGING IN CURTAINWALL STUD BENEATH DEFLECTION TRACK WHEN CURTAINWALL STUDS ARE NOT FASTENED TO AN ADDITIONAL TOP TRACK.
6. FOR JOIST INSTALLATION, INSTALL PERIMETER JOIST TRACK SIZED TO MATCH JOISTS. INSTALL JOISTS BEARING A MINIMUM OF 1 1/2 INCHES ON SUPPORTING FRAMING, LEVEL, STRAIGHT, AND PLUMB, ADJUST TO FINAL POSITION, BRACE, AND REINFORCE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. FRAME OPENINGS WITH BUILT-UP JOIST HEADERS CONSISTING OF JOIST AND JOIST TRACK. NESTING JOISTS, OR ANOTHER COMBINATION OF CONNECTED JOISTS. INSTALL JOIST REINFORCEMENT AND WEB STIFFENERS AT INTERIOR SUPPORTS AS RECOMMENDED BY MANUFACTURER. INSTALL BRIDGING AT EACH END OF JOISTS AND AT INTERVALS RECOMMENDED BY THE MANUFACTURER. FASTEN BRIDGING AT EACH JOIST INTERSECTION. SECURE JOISTS TO LOAD-BEARING INTERIOR WALLS TO PREVENT LATERAL MOVEMENT OF BOTTOM FLANGE.
7. COLD-FORMED METAL TRUSSES SHALL FULLY FRAME OUT THE SHAPE AND DIMENSION OF THE ROOF AND CEILING STRUCTURE. THE TRUSS PROFILES AND INTERIOR WEB LAYOUTS SHALL BE DEFINED BY THE SUPPLIER. THE SUPPLIER SHALL ALSO BE RESPONSIBLE FOR THE DESIGN OF THE ASSEMBLED COLD-FORMED TRUSS SYSTEM INCLUDING TRUSS CONNECTIONS, SECONDARY FRAMING, AND BRACING. CERTIFIED CALCULATIONS, SHOP DRAWINGS, ERECTION DRAWINGS AND ERECTION INSTRUCTIONS SHALL BE SUBMITTED. INSTALL, BRIDGE, AND BRACE THE COLD-FORMED TRUSSES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ERECT TRUSSES WITH PLANE OF TRUSS WEBS PLUMB AND PARALLEL TO EACH OTHER, ALIGNED AND ACCURATELY POSITIONED AT THE REQUIRED SPACING. DO NOT ALTER, CUT OR REMOVE FRAMING MEMBERS OR CONNECTIONS OF TRUSSES. ANCHOR TRUSSES SECURELY AT ALL BEARING POINTS. INSTALL CONTINUOUS BRIDGING AND PERMANENT BRACING.
8. PREPARE AND REPAIR GALVANIZED COATINGS ON FABRICATED AND INSTALLED COLD-FORMED METAL FRAMING WITH GALVANIZING REPAIR PAINT IN ACCORDANCE WITH ASTM A780 AND THE MANUFACTURER'S REQUIREMENTS.
9. WIRE BRUSH, CLEAN, AND PAINT SCARRED AREAS, WELDS, AND RUST SPOTS ON FABRICATED AND INSTALLED PRIME PAINTED COLD FORMED METAL FRAMING WITH SAME TYPE OF SHOP PAINT USED ON ADJACENT SURFACES.

Revisions

No.

Date

Description

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Date:

04/23/2021

Project No.:

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PIC / AIC:

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Sheet Title

GENERAL STRUCTURAL NOTES

Sheet Number

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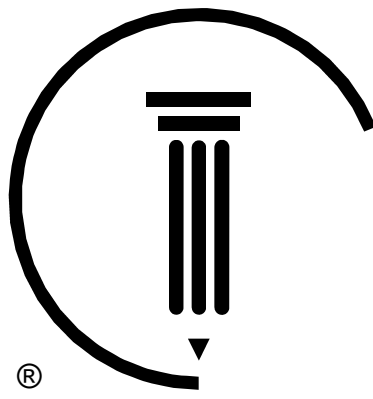
S000

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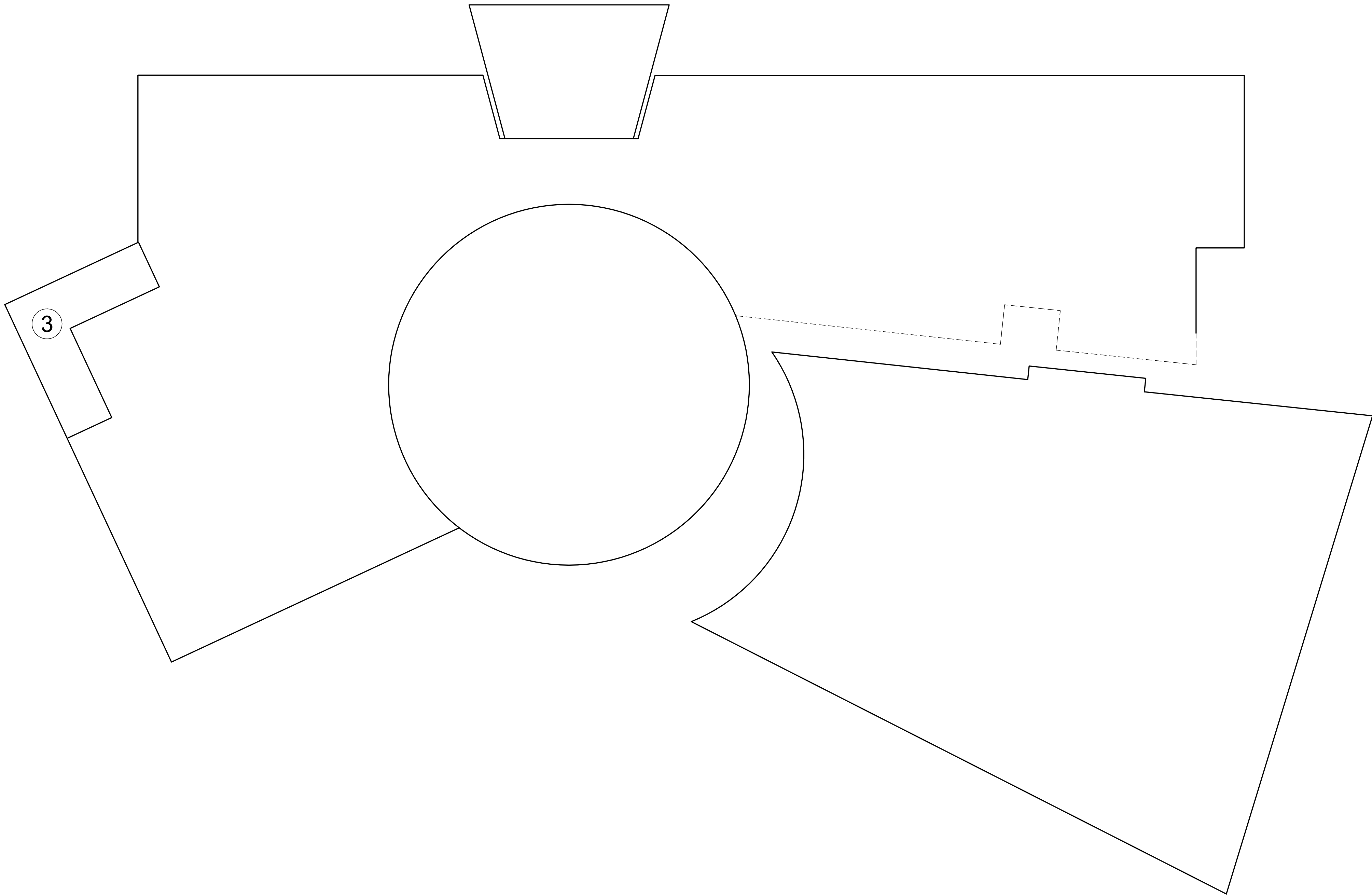
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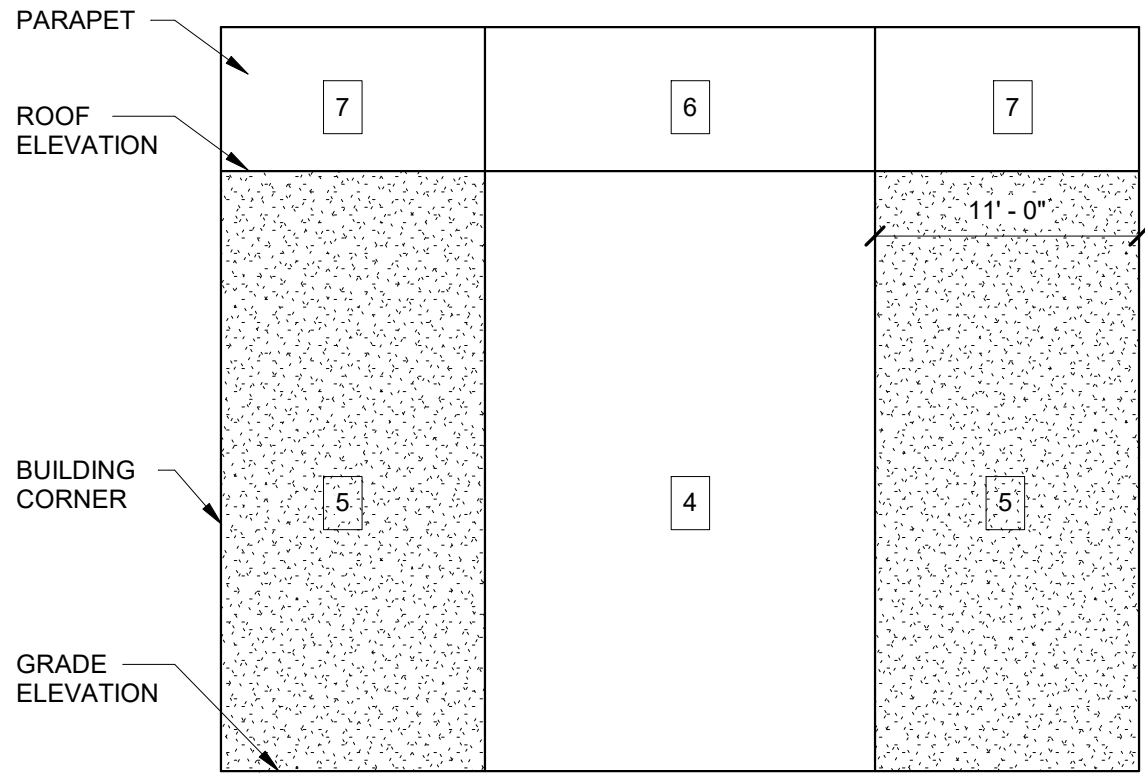
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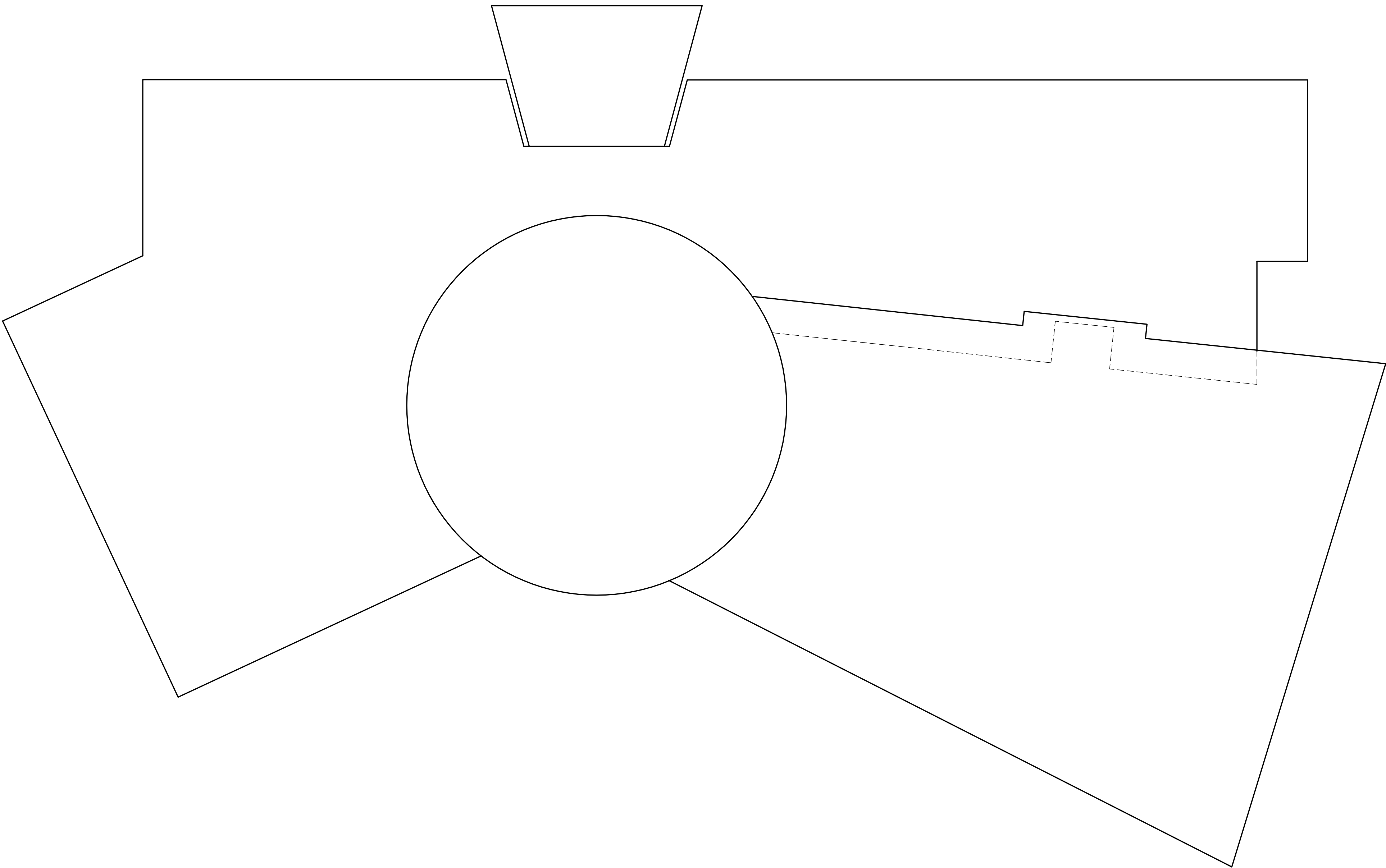
1 ROOF UPLIFT PLAN
S001 1/8" = 1'-0"



WALL WIND PRESSURE AREAS						
AREA	10 FT²	20 FT²	50 FT²	100 FT²	200 FT²	500 FT²
4	21.2 PSF	20.3 PSF	19.2 PSF	18.3 PSF	17.4 PSF	16.3 PSF
5	26.1 PSF	24.3 PSF	22.1 PSF	20.3 PSF	18.6 PSF	16.3 PSF
6	59.0 PSF	55.2 PSF	50.2 PSF	46.3 PSF	42.5 PSF	37.5 PSF
7	59.0 PSF	55.2 PSF	50.2 PSF	46.3 PSF	42.5 PSF	37.5 PSF

- WALL WIND PRESSURE NOTES:
- ALL BUILDING COMPONENTS, CLADDING, FINISHES AND CONNECTIONS SHALL BE DESIGNED FOR WIND PRESSURES INDICATED FOR THE CORRESPONDING ZONE. CALCULATIONS AND/OR DESIGN DATA MUST BE AVAILABLE FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD IF REQUESTED.
 - INTERPOLATION REQUIRED FOR AREAS IN BETWEEN

2 WIND WALL PRESSURE
S001 1/8" = 1'-0"



3 SNOW DRIFT LOADING PLAN
S001 1/8" = 1'-0"

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Revisions

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Project Information

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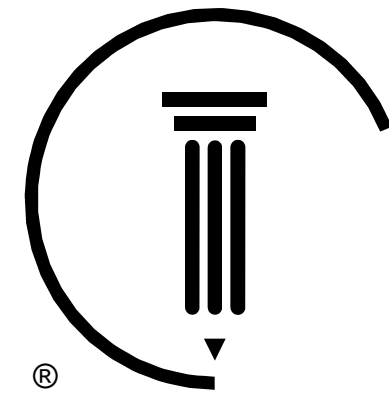
WALL WIND PRESSURE, ROOF
UPLIFT & SNOW DRIFTING PLAN

Sheet Number

Current Revision

S001

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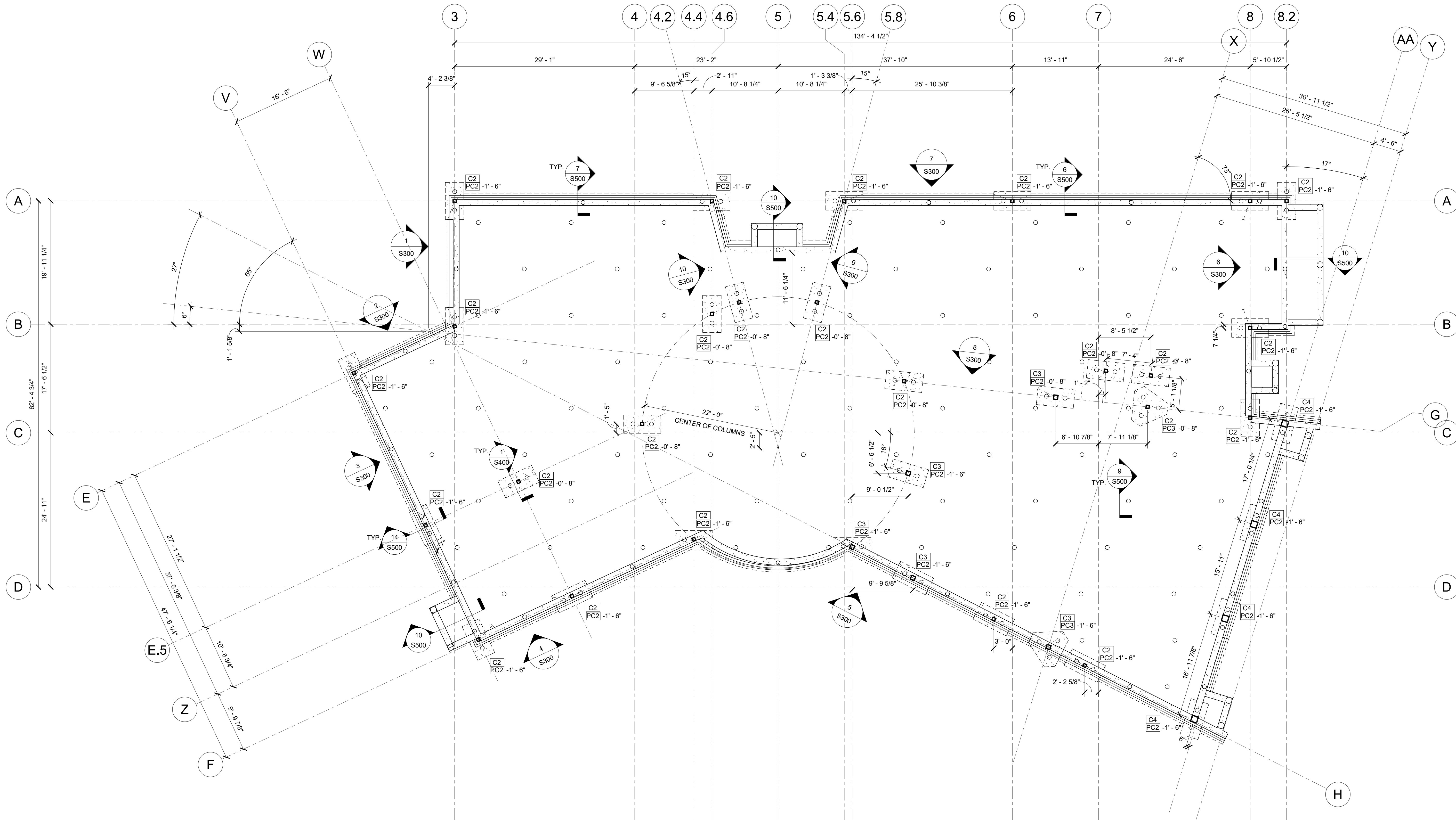
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1
S100
1/8" = 1'-0"

FOOTING & FOUNDATION PLAN NOTES: (TYPICAL UNO)

- TOP OF CONCRETE SLAB EL. 000'-0" SITE DATUM EL. 712'-00"
- TOP OF INTERIOR COLUMN PILECAPS TO BE AT EL. -0'-8", TOP OF EXTERIOR PILECAPS TO BE AT EL. -1'-6" UNLESS NOTED OTHERWISE.
- TOP OF ALL GRADE BEAMS TO BE AT EL. -0'-8" UNO ON PLAN.
- PILES TO BE XX"Ø AUGERCAST GROUT PILES.
- FOUNDATION PLAN LEGEND:
 - C1 INDICATES COLUMN TYPE, SEE SCHEDULE AND DETAILS AT S500.
 - PCX INDICATES TOP OF PILECAP ELEVATION, SEE S400.
 - GBX INDICATES GRADE BEAM TYPE, SEE 6/S500 & 7/S500.
 - INDICATES BATTERED PILE AND DIRECTION, BATTER TO BE 1:X.
 - INDICATES TENSION PILE (SHADED).
 - INDICATES TYPICAL COMPRESSION PILE.
- CONCRETE STRUCTURAL SLAB TO BE 8" THICK REINFORCED WITH #4 @ 12" OC EA WAY TOP & BOTTOM. THICKEN SLAB TO 24" THICK FOR 48" x 48" AT SINGLE PIPE PILE LOCATIONS SEE DTL 9 / S500 .
- SEE 4 / S500 FOR HOUSEKEEPING PAD @ SLAB ON GRADE.
- SEE 11 / S500 - 13 / S500 FOR GRADE BEAM CONSTRUCTION JOINT AND MEP PIPE PENETRATIONS THROUGH GRADE BEAMS.
- SEE 11 / S500 - 3 / S500 FOR SLAB ON GRADE OPENING AND INSIDE CORNER REINFORCING DETAILS.
- SEE 5 / S500 FOR SLAB DEPRESSION.
- GENERAL CONTRACTOR TO COORDINATE WITH (MEP) MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS FOR ANY AND ALL LOCATIONS OF SLEEVED OPENINGS IN FOUNDATION WALLS.
- GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING STRUCTURE DIMENSIONS, ELEVATIONS, CONDITIONS, ETC., PRIOR TO COMMENCING WORK OF ADDING NEW STRUCTURE OR CONNECTING TO EXISTING STRUCTURE. IF ANY OF THESE ARE DIFFERENT FROM SHOWN HERE OR IN DETAILS, CONTACT ENGINEER FOR REVIEW, COMMENTS OR REDESIGN IF NECESSARY.

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PLATE TYPE	COMMENTS
C1	HSS6X6X3/8		PARAPET STEEL @ 12' OC
C2	HSS6X6X3/8		
C3	HSS8X8X1/2		
C4	HSS12X12X1/2		

STEEL COLUMN NOTES: (TYP UNO)

- ALL ANCHOR BOLTS TO BE SET WITH TEMPLATES.
- SEE DTL FOR BASEPLATE DESIGN.

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FOUNDATION PLAN

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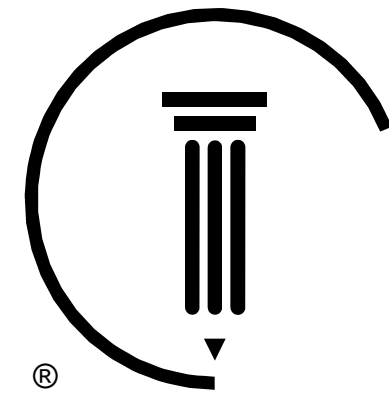
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S101

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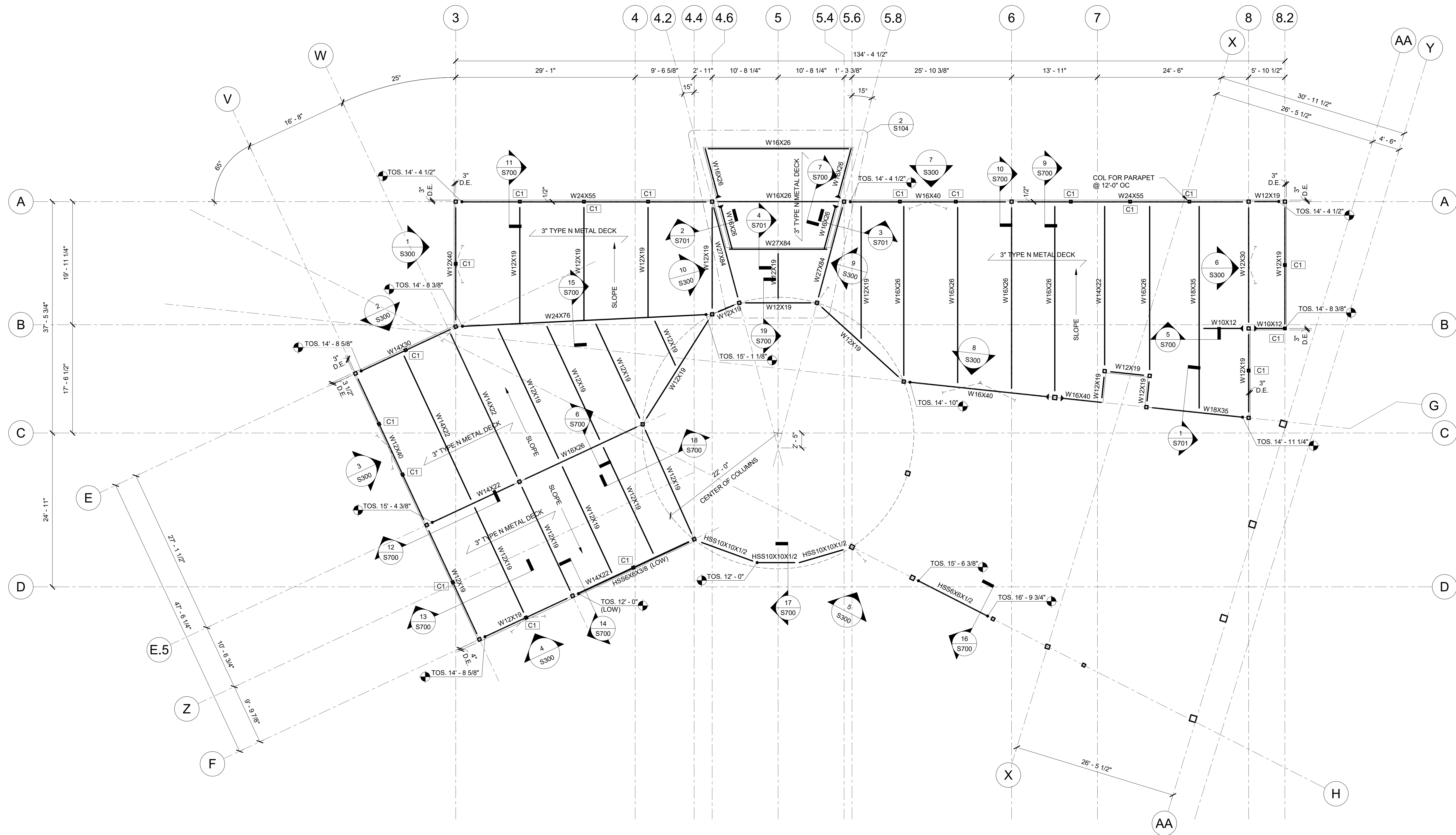
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1
S102
LOW ROOF FRAMING
1/8" = 1'-0"

- ROOF FRAMING PLAN NOTES: (TYPICAL UNO)
- ALL STEEL MEMBERS TO BE A572, GRADE 50.
 - SEE 3 / S700 FOR TYPICAL ROOF OPENING SUPPORT FRAME.
 - STEEL ROOF DECK TO BE 3N - 20 GA. SEE 2 / S700 FOR FASTENING PATTERN.
 - TOP OF STEEL (TOS) ELEV. VARIES. SEE PLAN.
 - U.N.O. ALL NON-CONTINUOUS BEAMS TO HAVE SHEAR CONNECTIONS, DESIGNED BY THE FABRICATOR. SEE STRUCTURAL NOTES FOR BOLT SIZE & QUANTITY.
 - DENOTES MOMENT CONN. @ BEAM. SEE 8 / S700.
 - GENERAL CONTRACTOR TO VERIFY SIZE, LOADING AND LOCATION OF ALL SOLAR UNITS.
 - SEE MECH & ARCH PLANS FOR ALL MISC. ROOF TOP UNIT PENETRATION LOCATIONS, SIZES & CURBS REQUIRED.
 - W24x62 (SEE 1")
 - INDICATES CAMBER.
 - (xx) INDICATES NUMBER OF 3/4" DIA. x 4 1/2" SHEAR STUD ON BEAM. SEE DETAIL. PROVIDE STUD @ 24" OC WHERE NO STUDS ARE SHOWN ON PLAN.
 - SLOPE TOP OF DECK ELEVATION UNIFORMLY BETWEEN ELEVATION SHOWN ON PLAN.
 - [??K] ON PLAN, INDICATES ADDITIONAL HORIZONTAL SHORT TERM AXIAL SERVICE LOAD TO BE RESISTED BY MEMBER AND MEMBER CONNECTION. FORCE IS SHOWN IN KIPS AND OCCURS IN EITHER DIRECTION.
 - SEE 4 / S700 FOR STEEL BEAM PENETRATION DETAIL.
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING STRUCTURE DIMENSIONS, ELEVATIONS, CONDITIONS, ETC. PRIOR TO COMMENCING WORK OF ADDING NEW STRUCTURE OR CONNECTING TO EXISTING STRUCTURE. IF ANY OF THESE ARE DIFFERENT FROM SHOWN HERE OR IN DETAILS, CONTACT ENGINEER FOR REVIEW, COMMENTS OR REDESIGN IF NECESSARY.

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Sheet Title
LOW ROOF FRAMING

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S102

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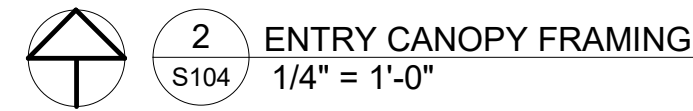
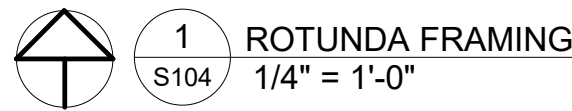
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ENTRY CANOPY FRAMING PLAN NOTES: (TYPICAL UNO)

1. ALL STEEL MEMBERS TO BE A572, GRADE 50.
2. STEEL ROOF DECK TO BE 3N - 20 GA.
3. TOP OF STEEL (TOS) ELEV. 13' - 8 3/4"

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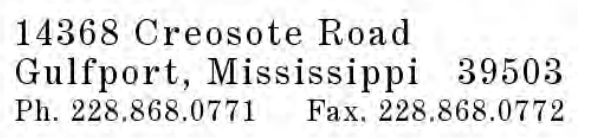
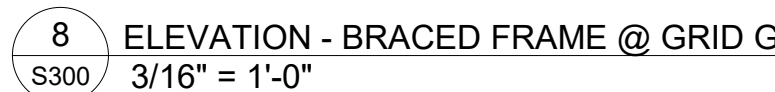
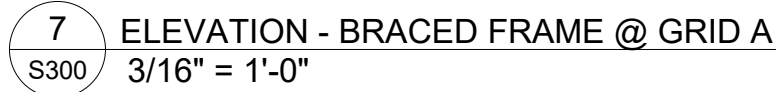
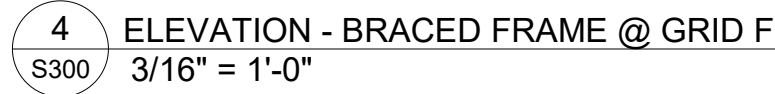
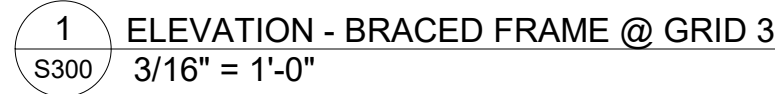
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ROTUNDA / ENTRY CANOPY
FRAMING ENLARGED

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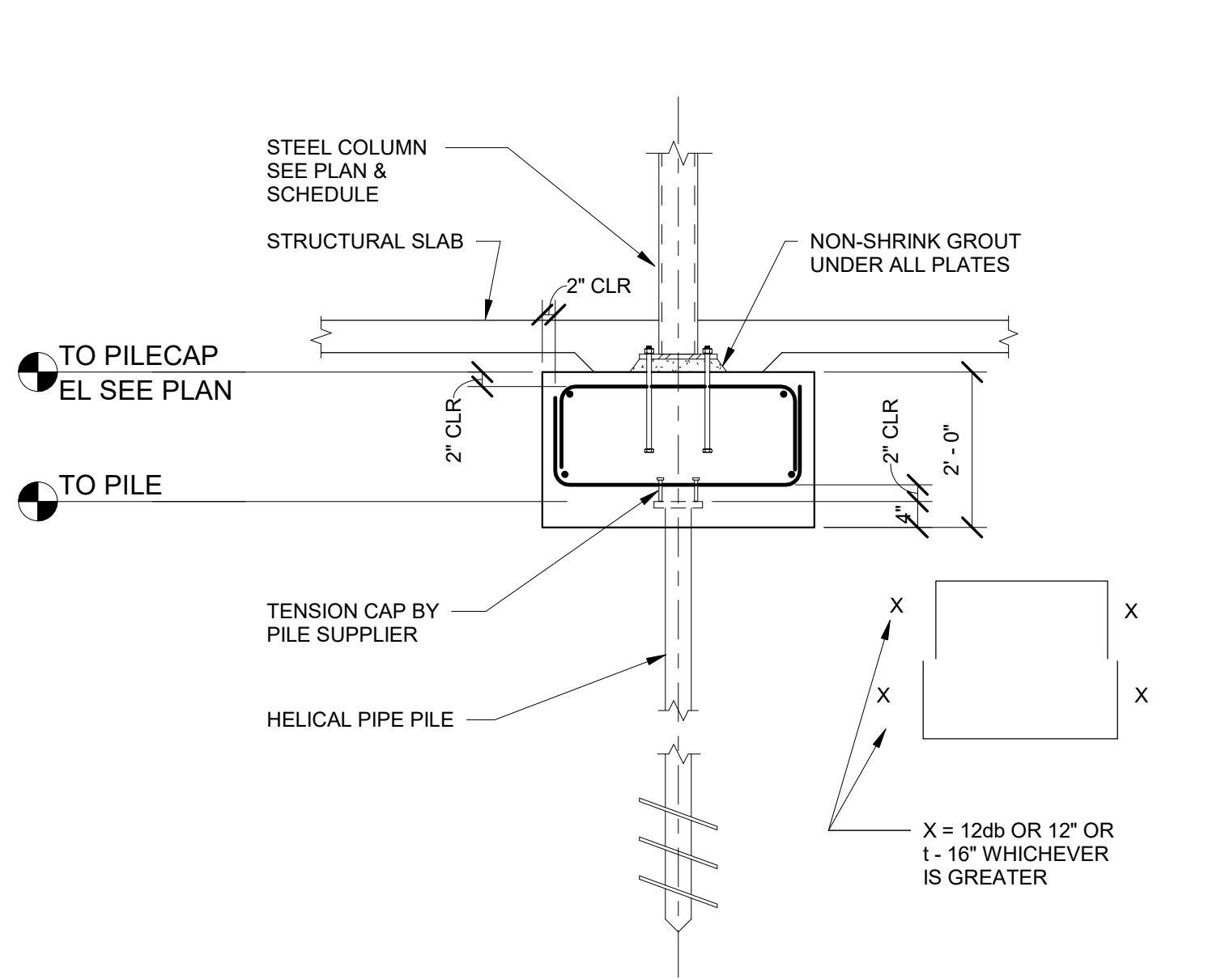
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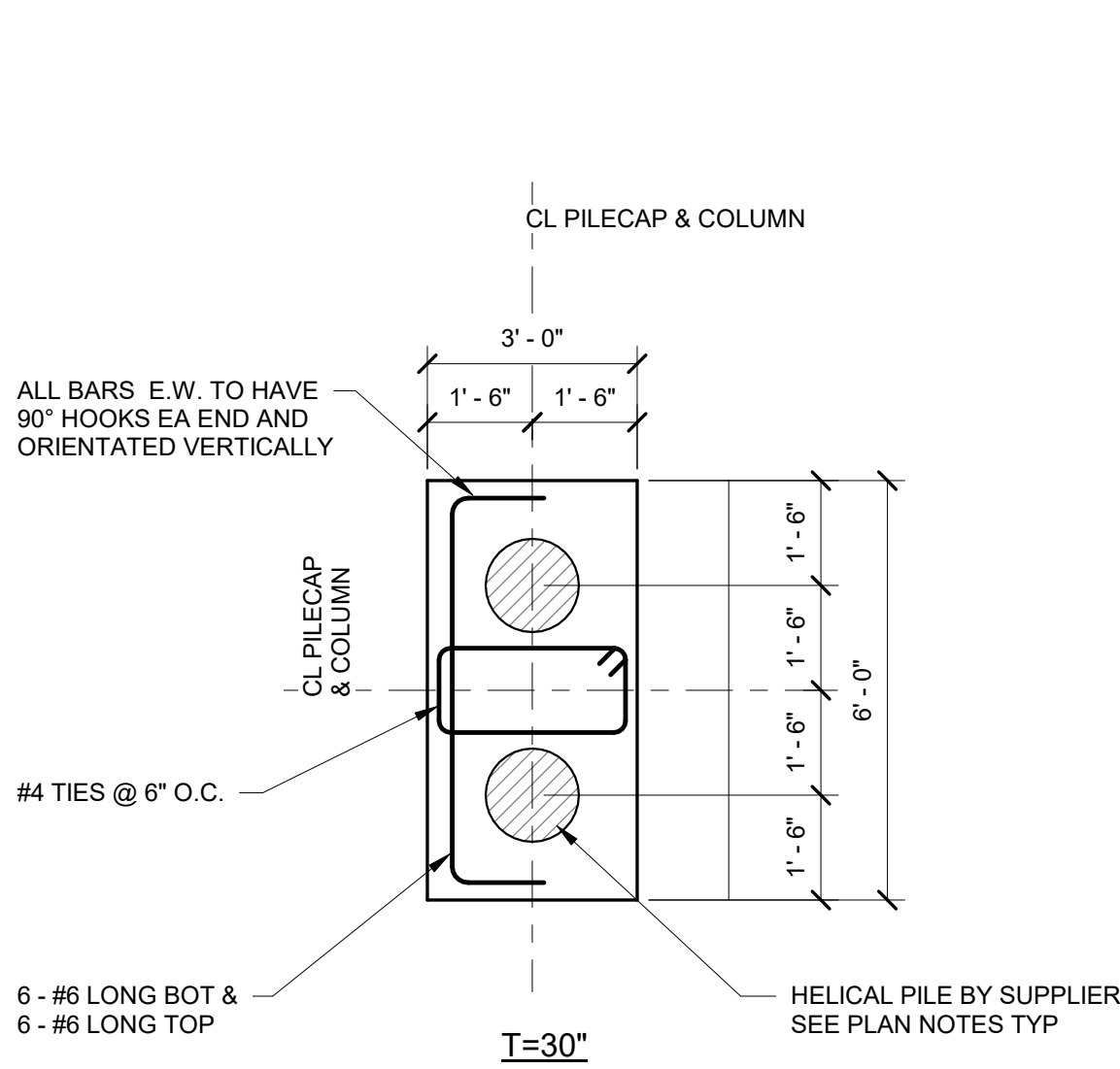


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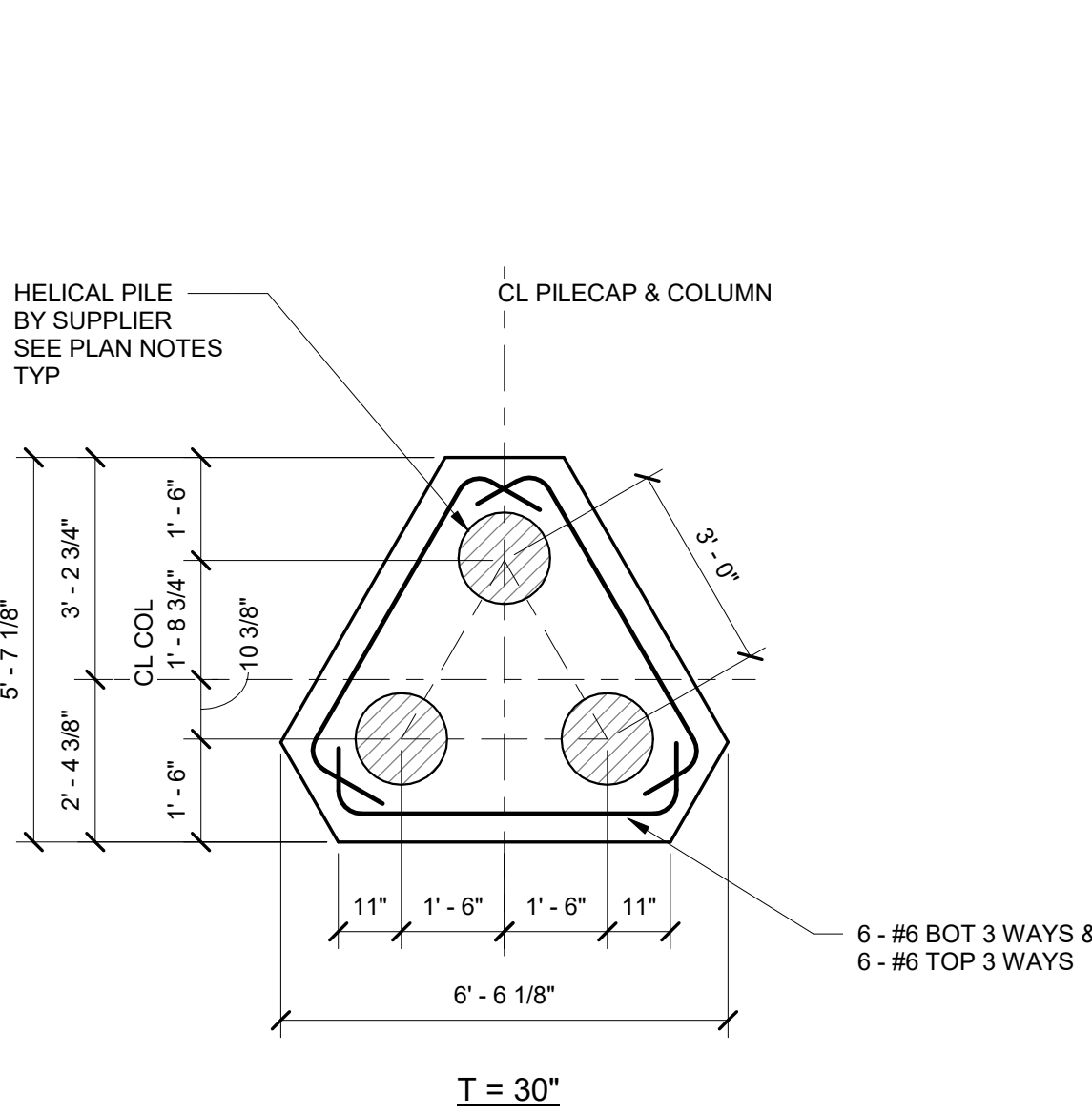
S300



1
S400
DETAIL - TYP CONCRETE COLUMN @ PILECAP
1/2\"/>



2
S400
DETAIL - PILE CAP PC2
3/8\"/>



3
S400
DETAIL - PILE CAP PC3
3/8\"/>

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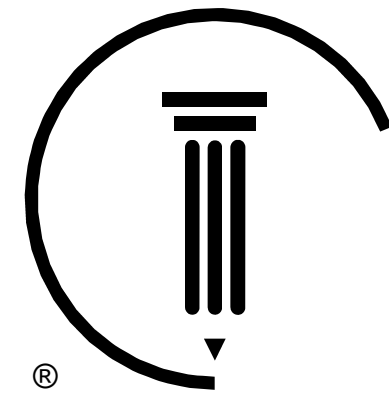
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Sheet Title
HELICAL PILE & PILE CAP
DETAILS

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S400

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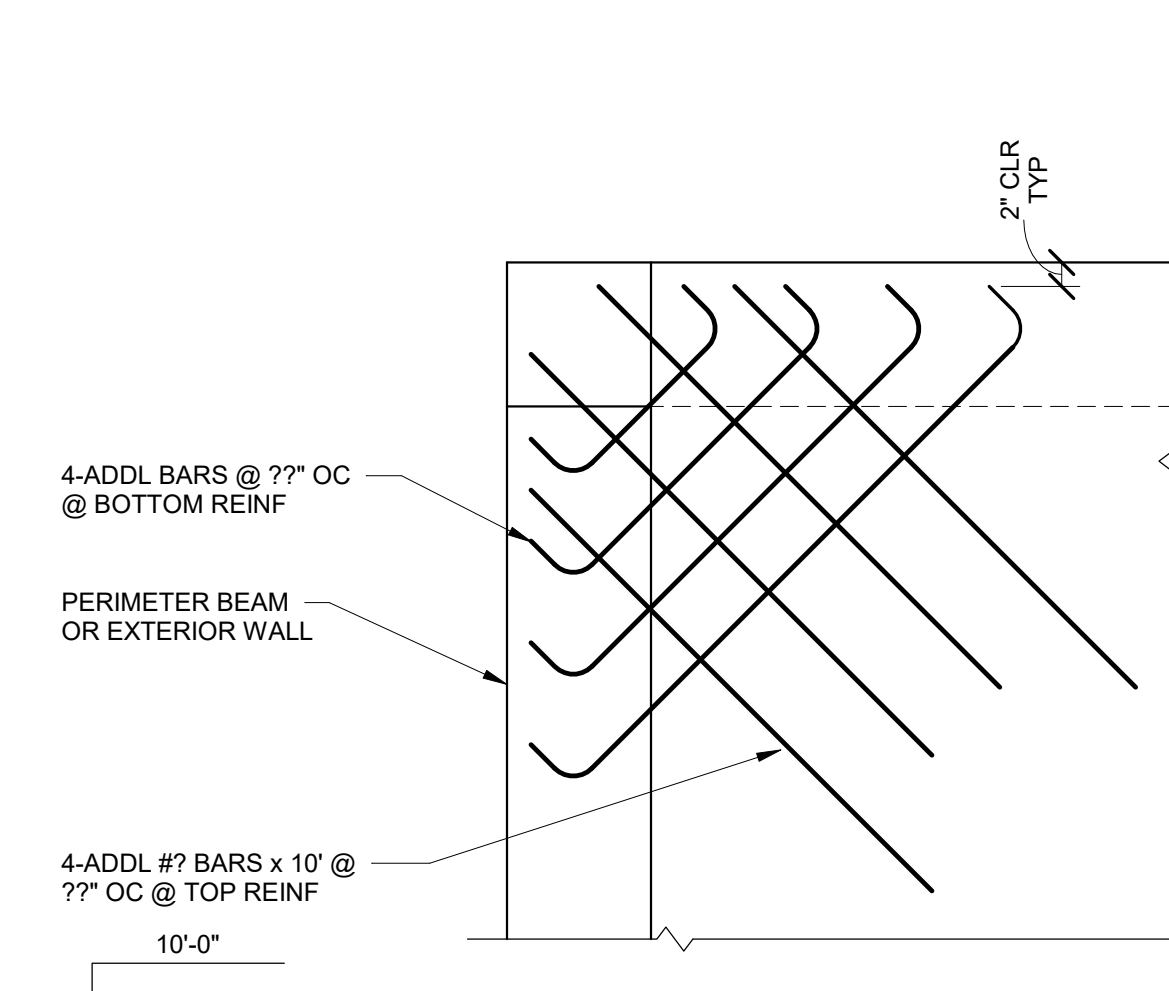
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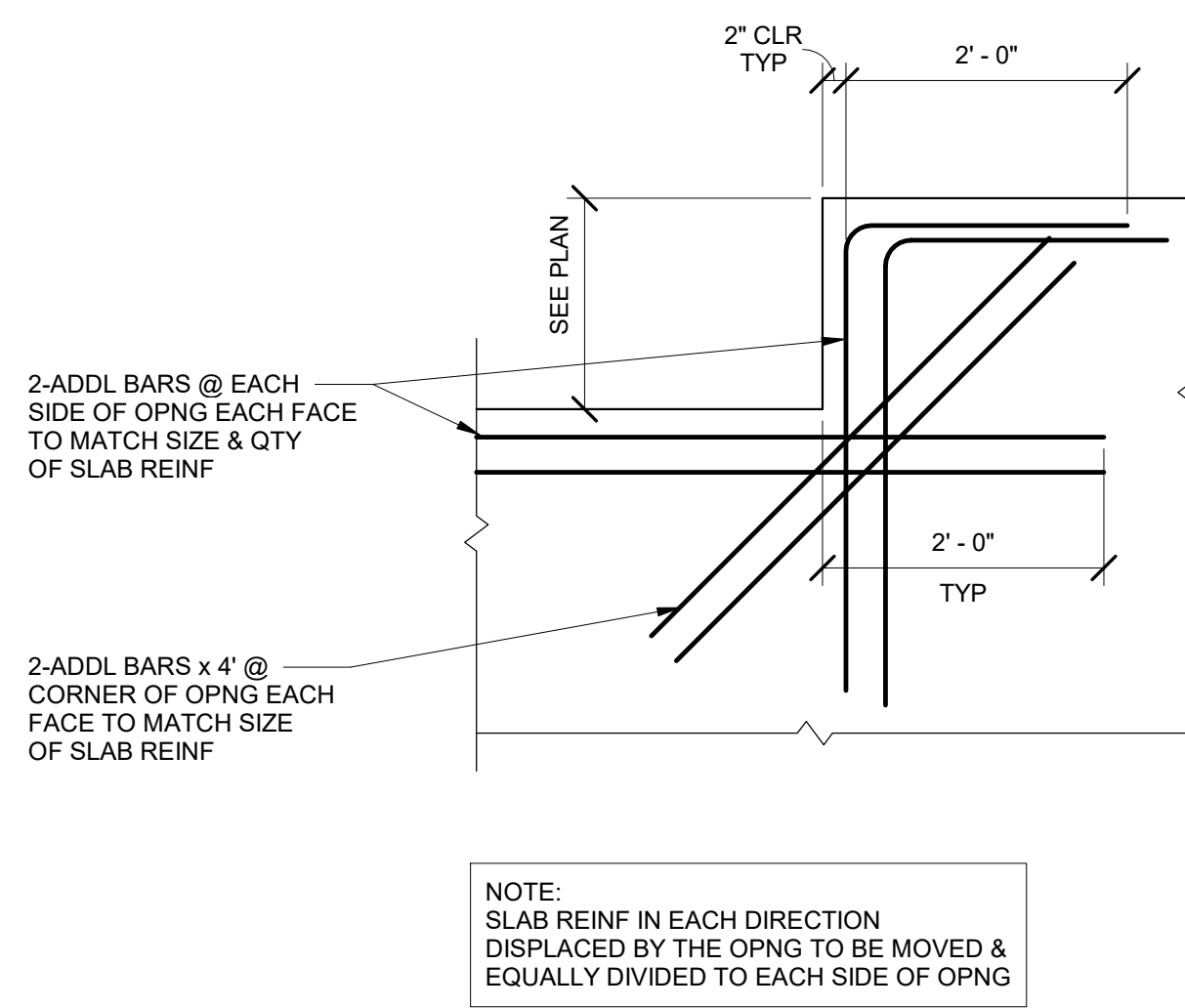
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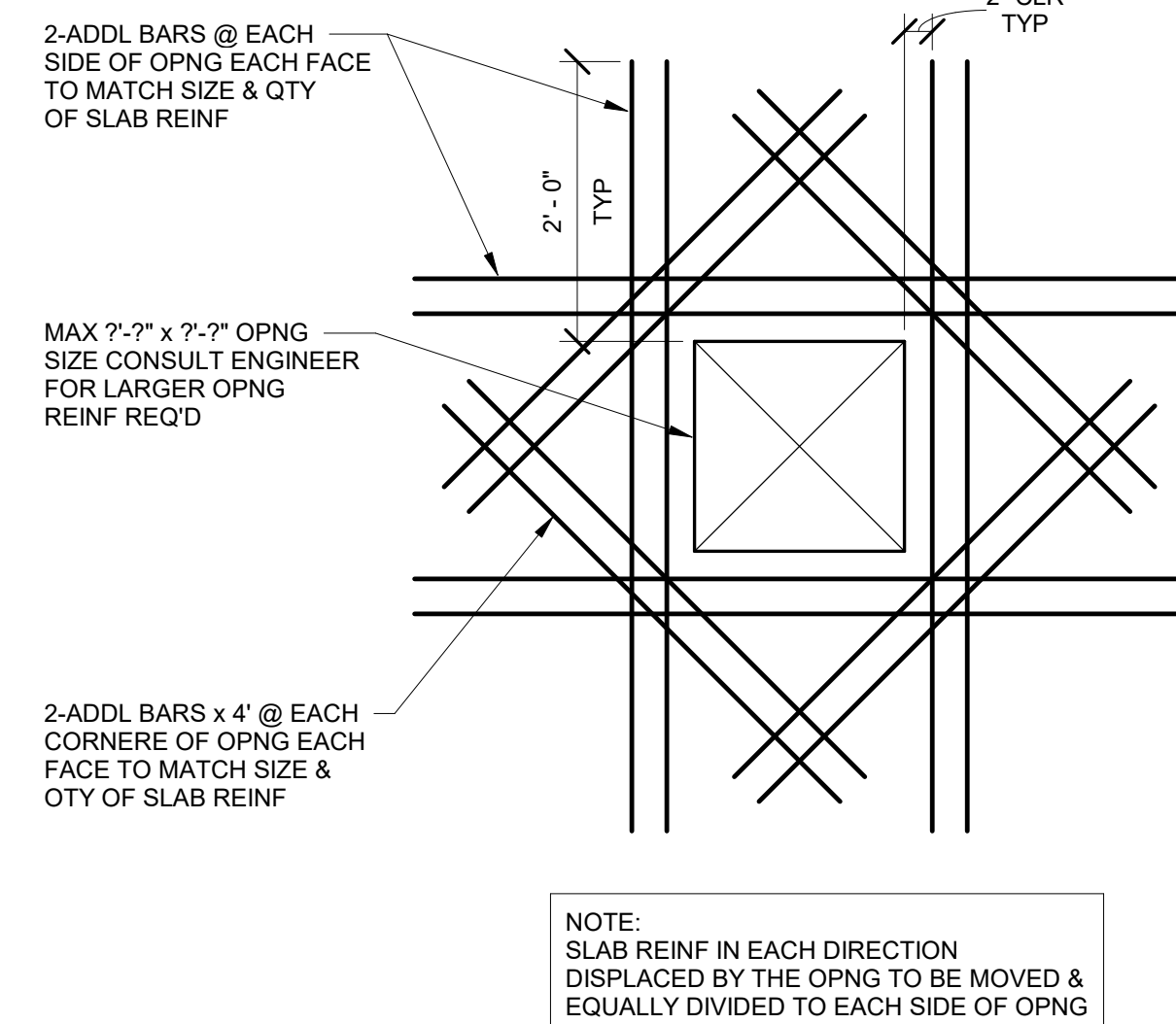
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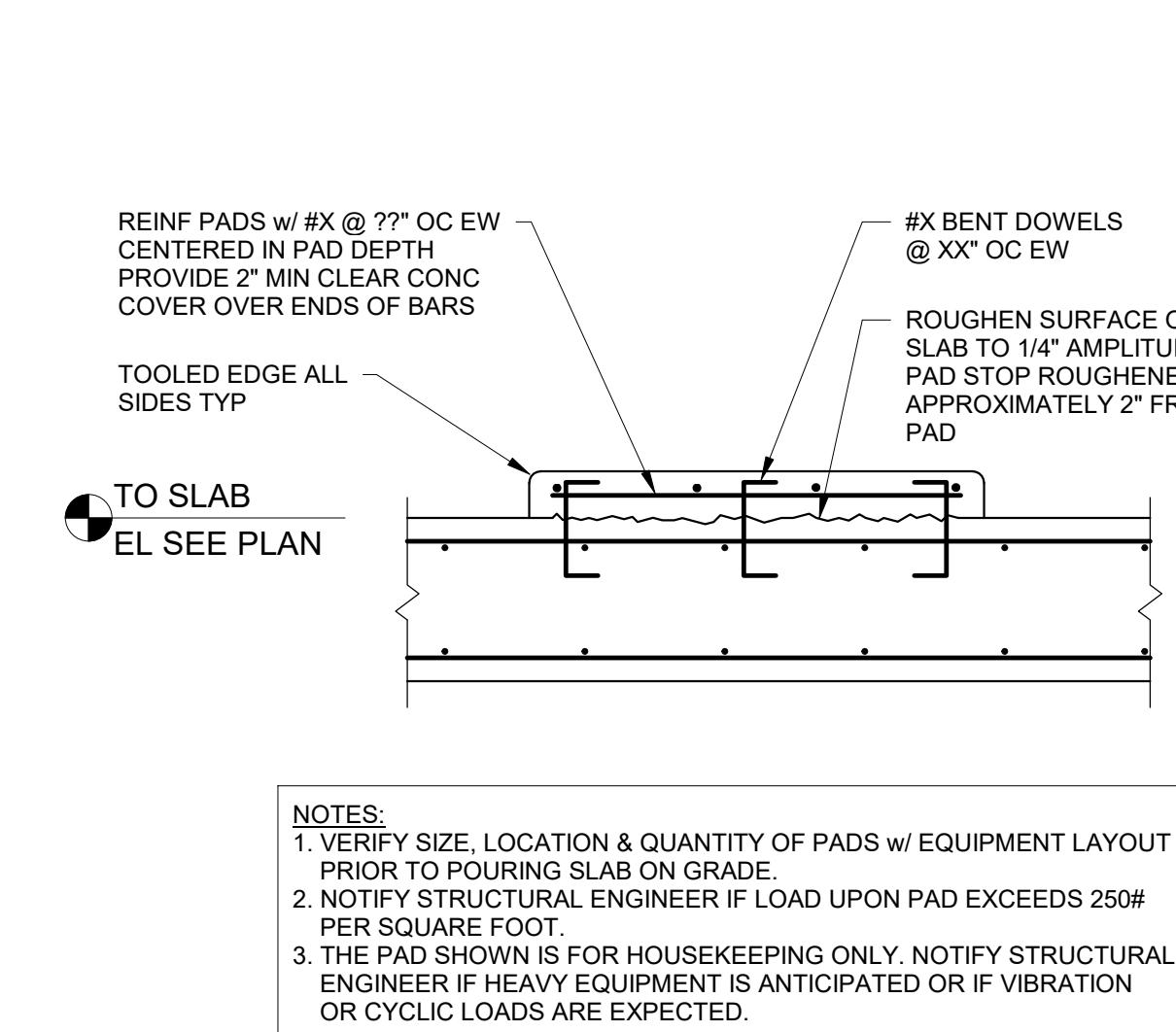
1 DETAIL - ADDL SLAB REINFORCING @ EXTERIOR CORNER
3/4" = 1'-0"



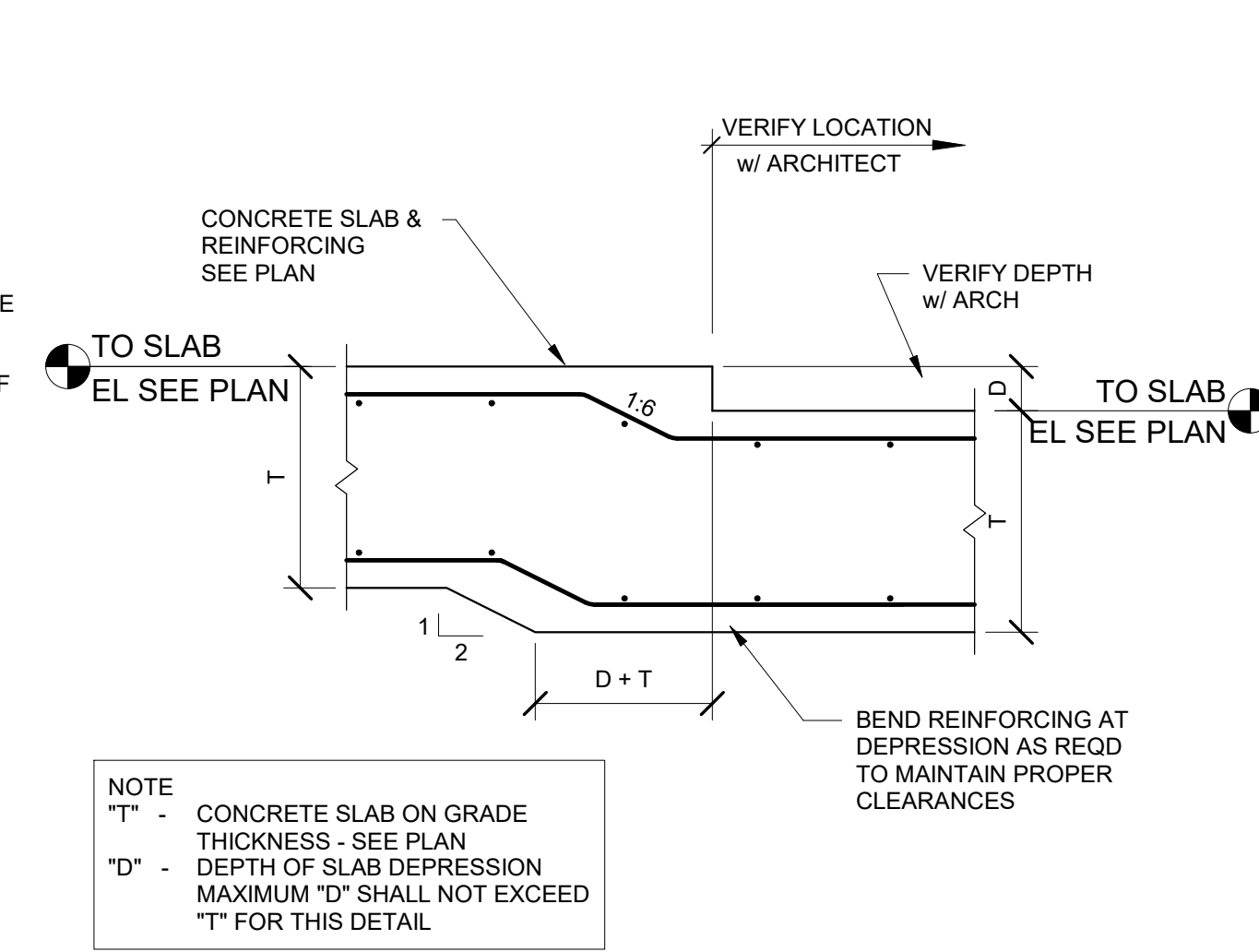
2 DETAIL - ADDL SLAB REINFORCING @ RE-ENTRANT CORNER
3/4" = 1'-0"



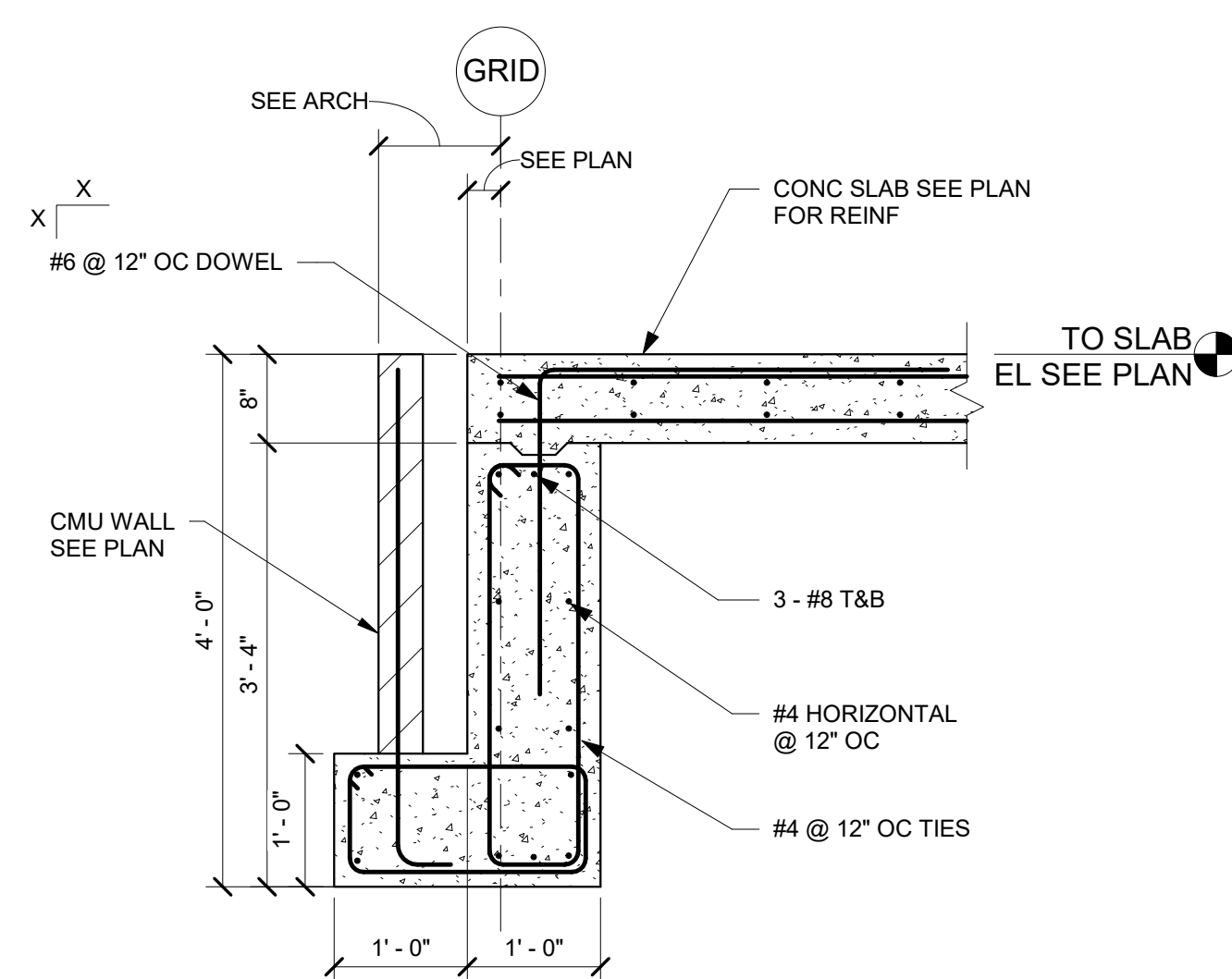
3 DETAIL - CONCRETE SLAB OPENING REINFORCING
3/4" = 1'-0"



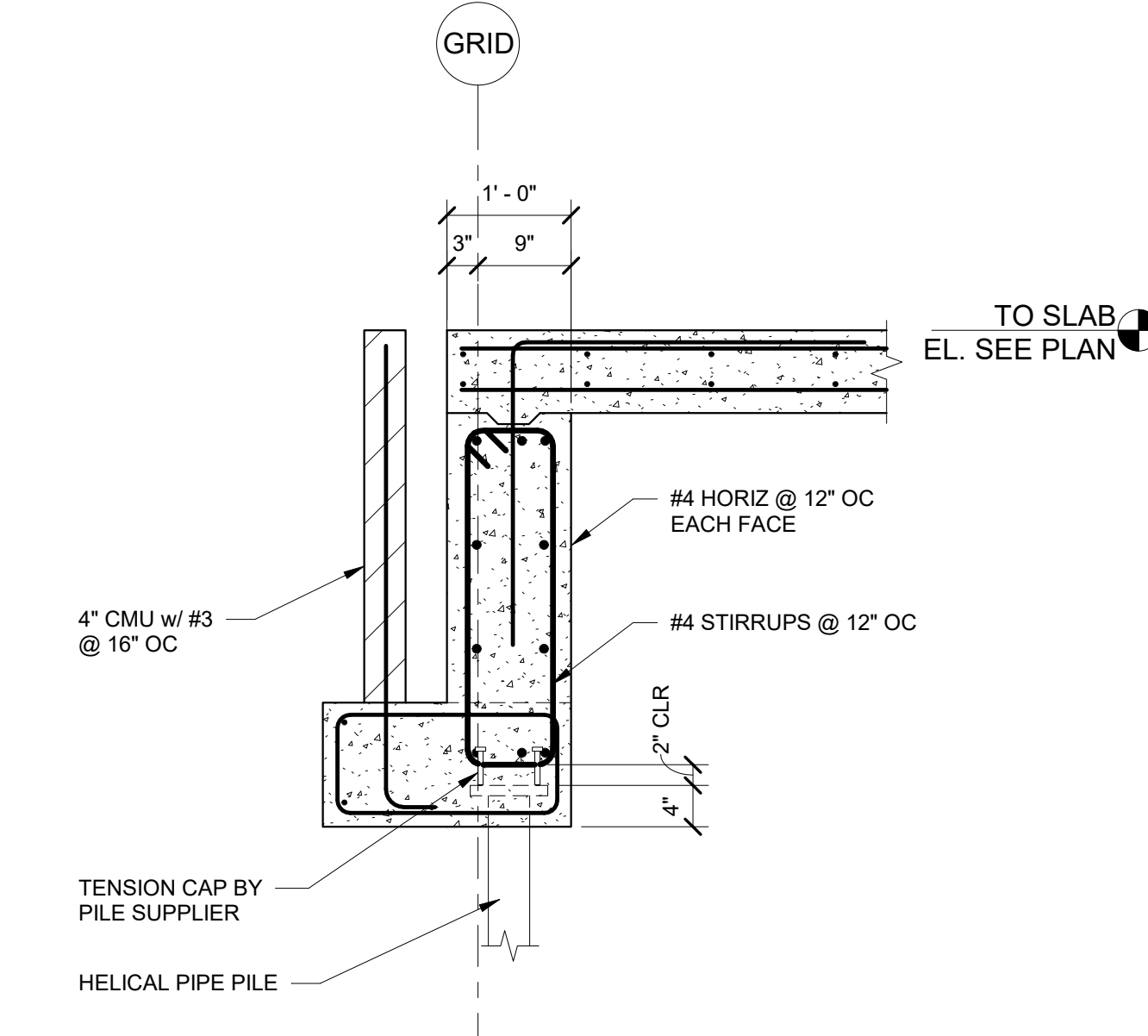
4 SECTION - EQUIPMENT HOUSEKEEPING PAD
3/4" = 1'-0"



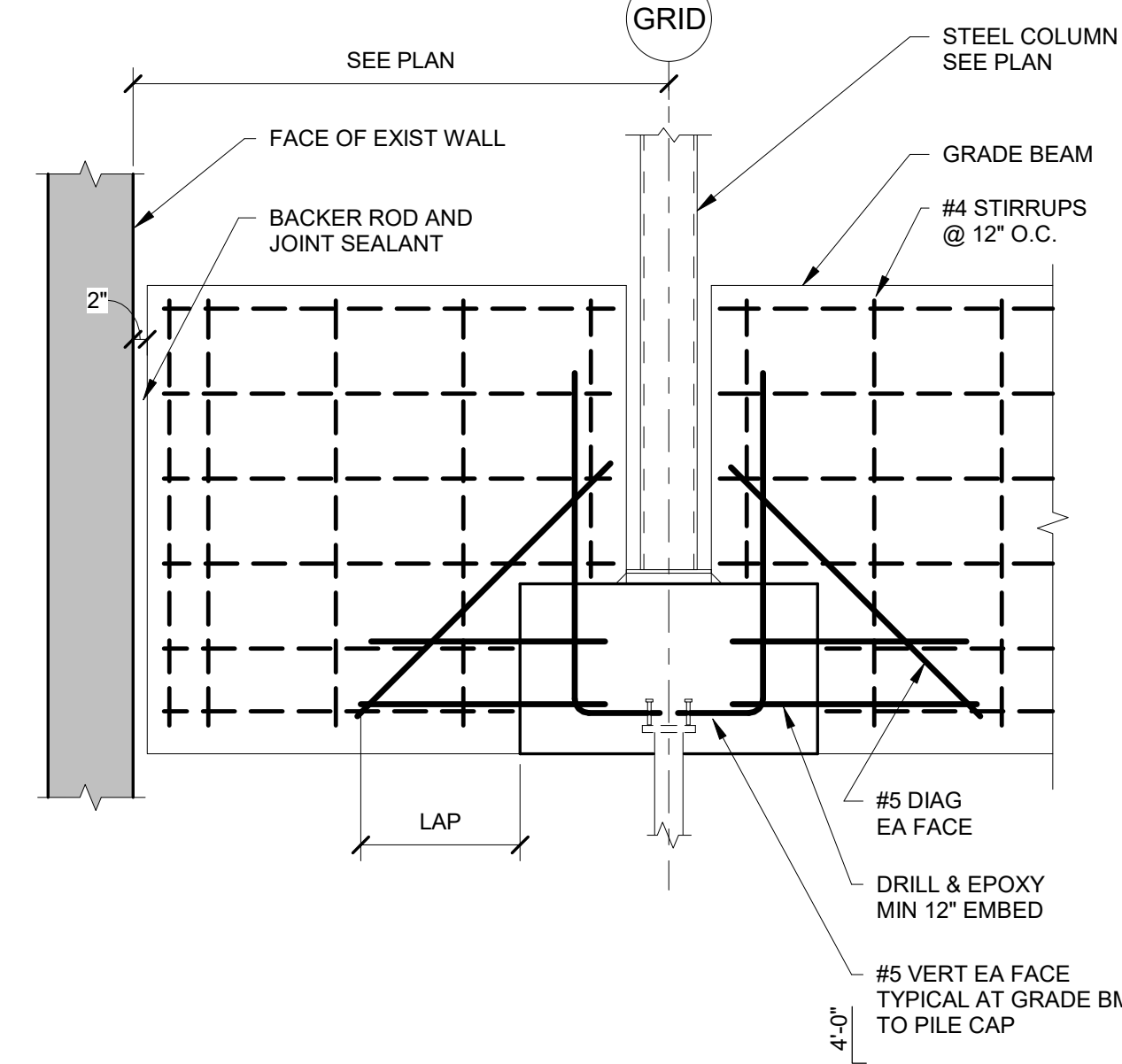
5 SECTION - TYP FLOOR SLAB DEPRESSION
3/4" = 1'-0"



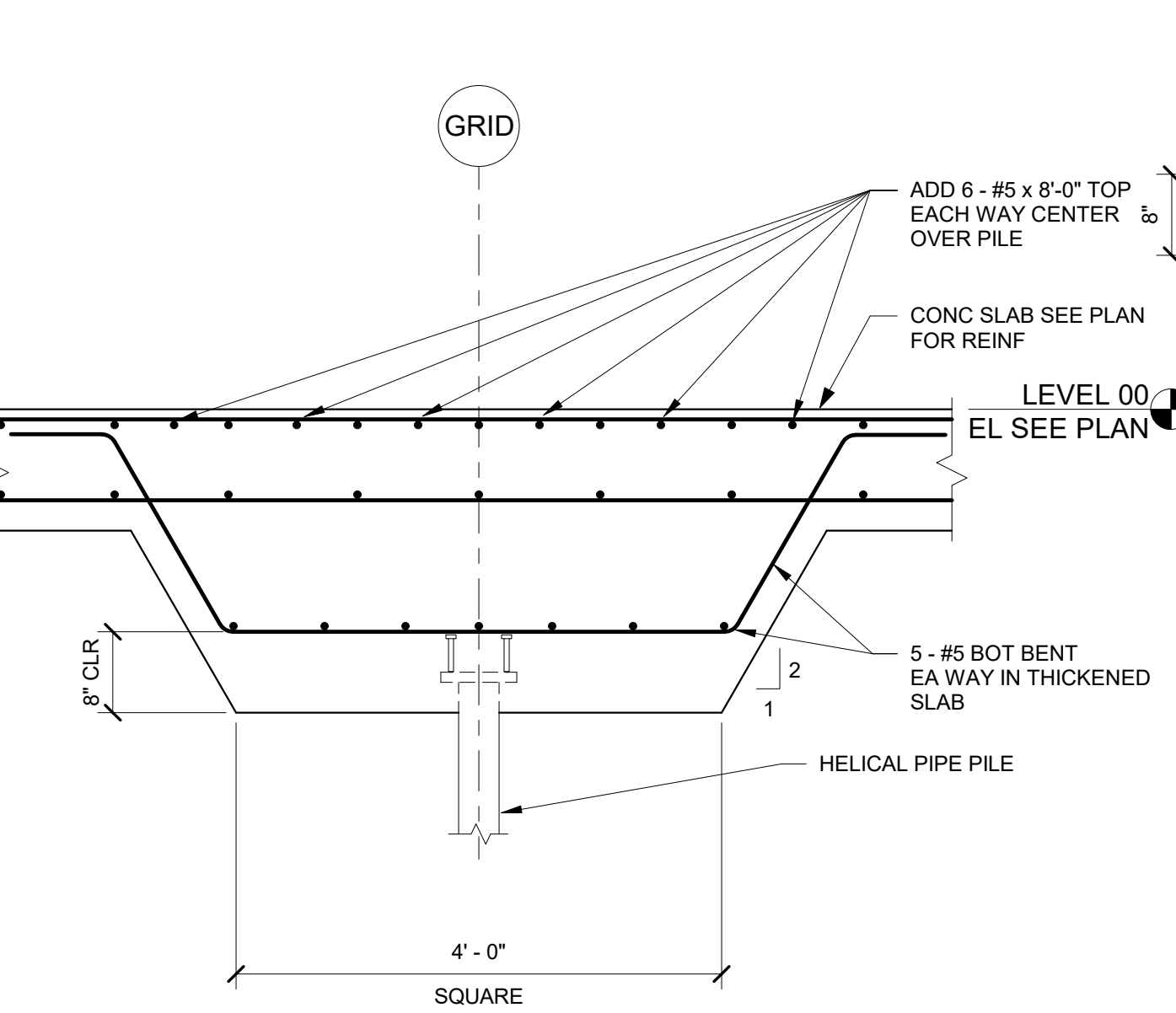
6 SECTION - GRADE BEAM @ SLAB EDGE
3/4" = 1'-0"



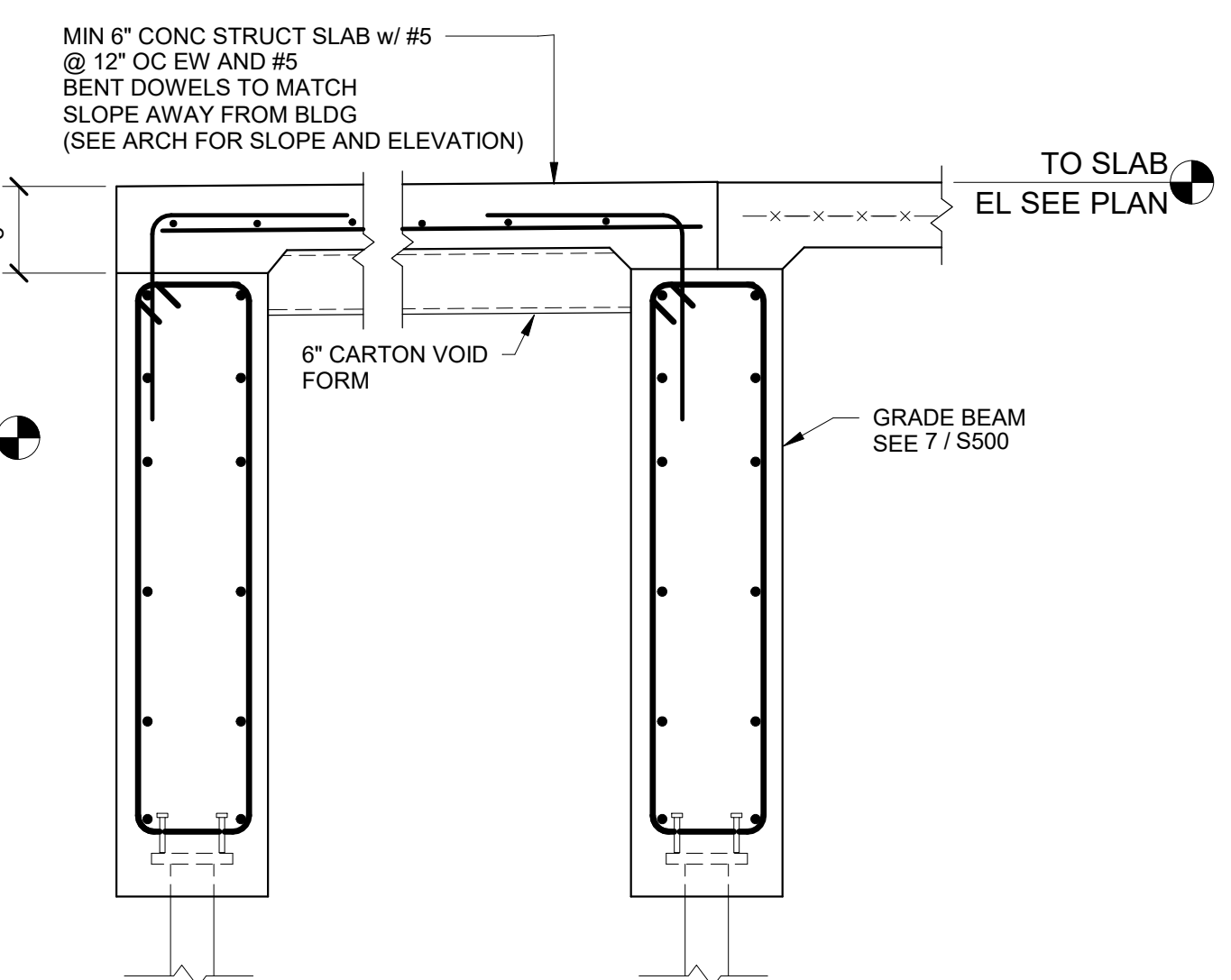
7 SECTION - TYP PERIMETER GRADE BEAM
3/4" = 1'-0"



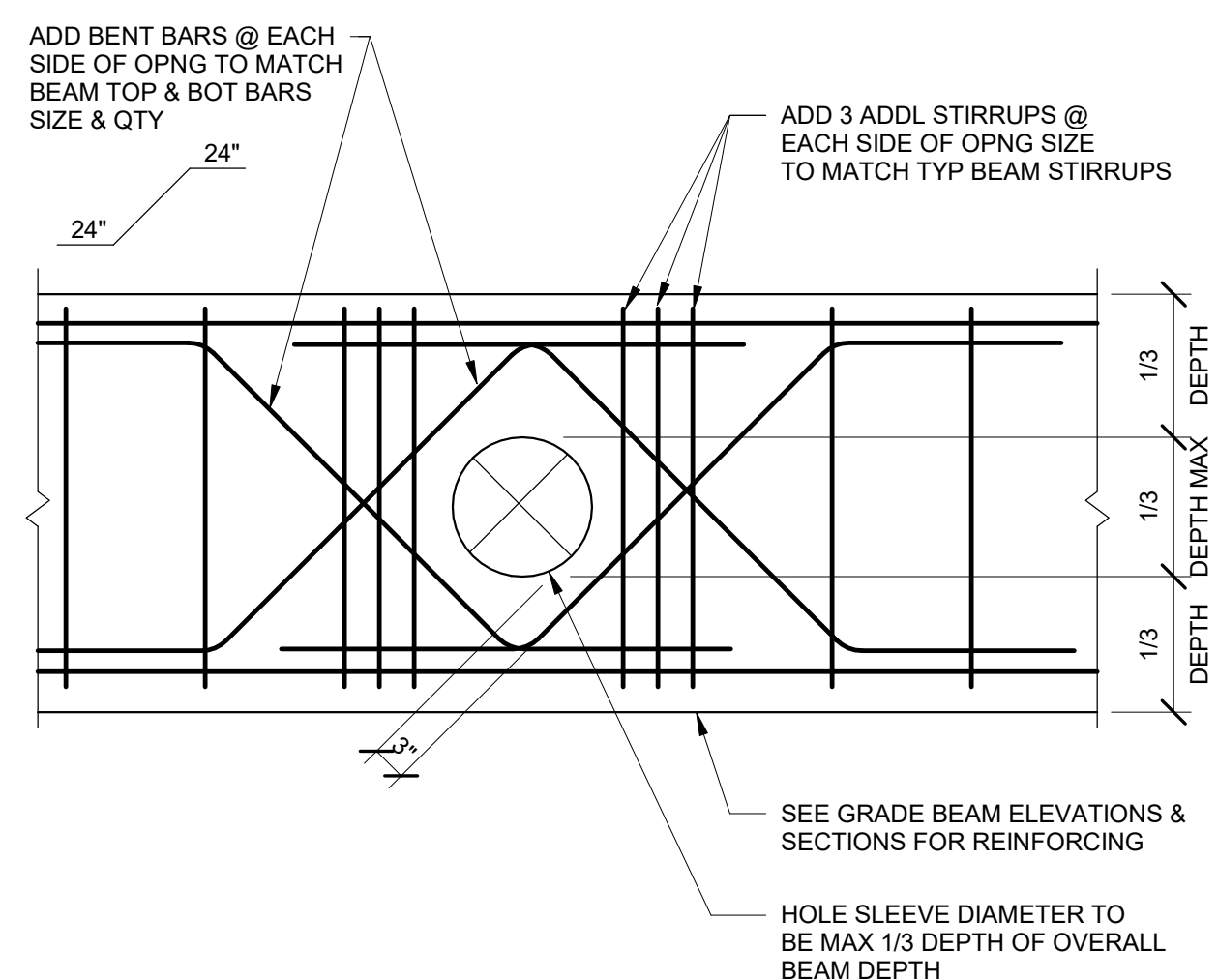
8 DETAIL - GRADE BEAM ELEVATION
1/2" = 1'-0"



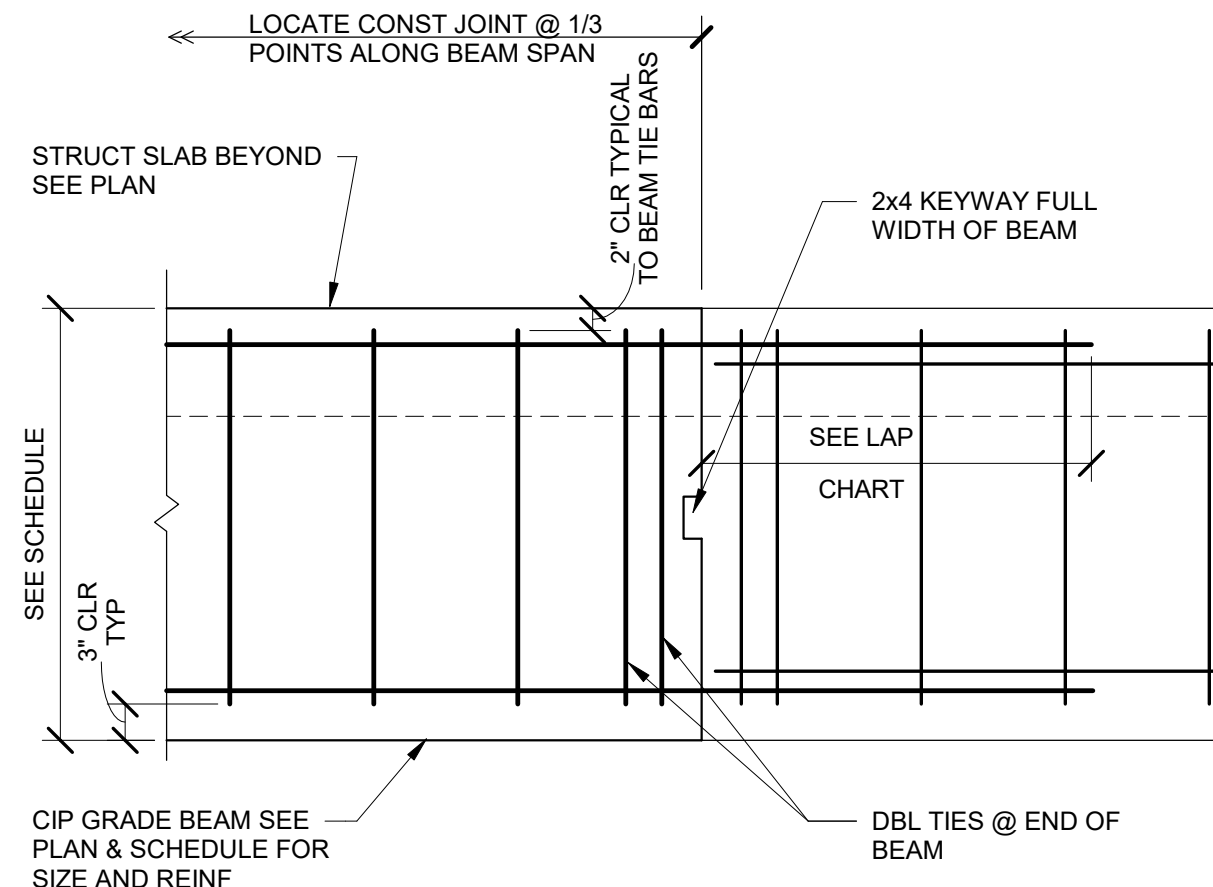
9 SECTION - THICKENED SLAB AT SINGLE HELICAL PIPE PILE
3/4" = 1'-0"



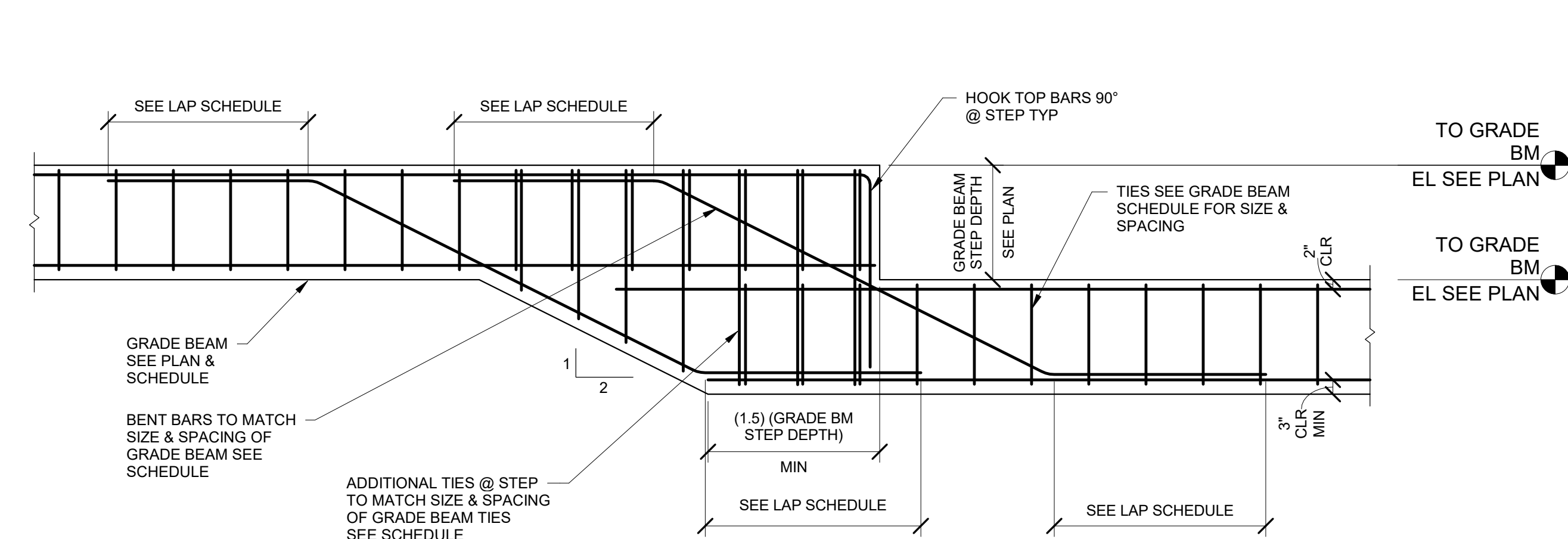
10 SECTION - TYP CONCRETE STOOP (GRADE BM STOOP WALL)
3/4" = 1'-0"



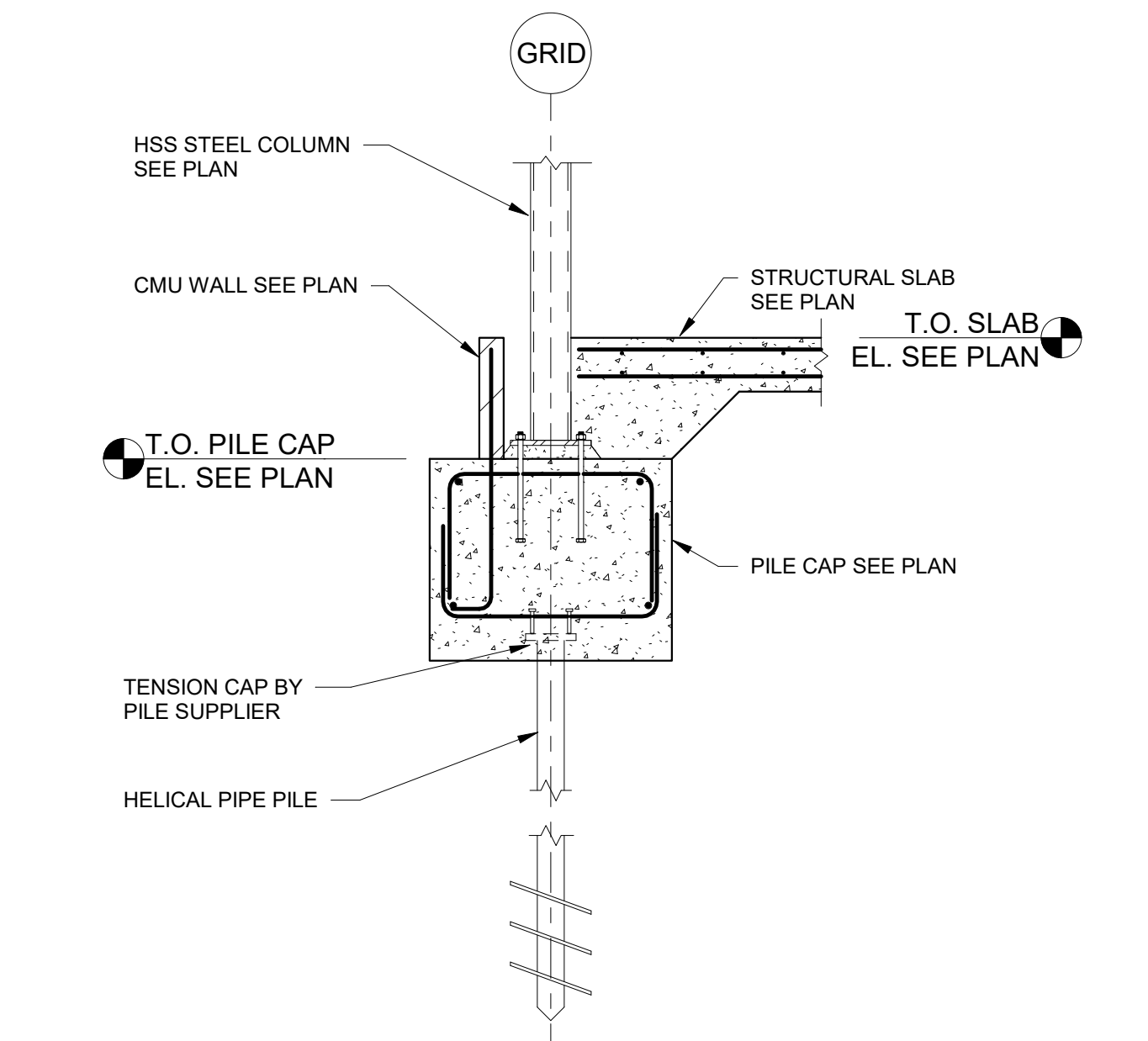
11 DETAIL - GRADE BEAM REINFORCING @ SLEEVE
3/4" = 1'-0"



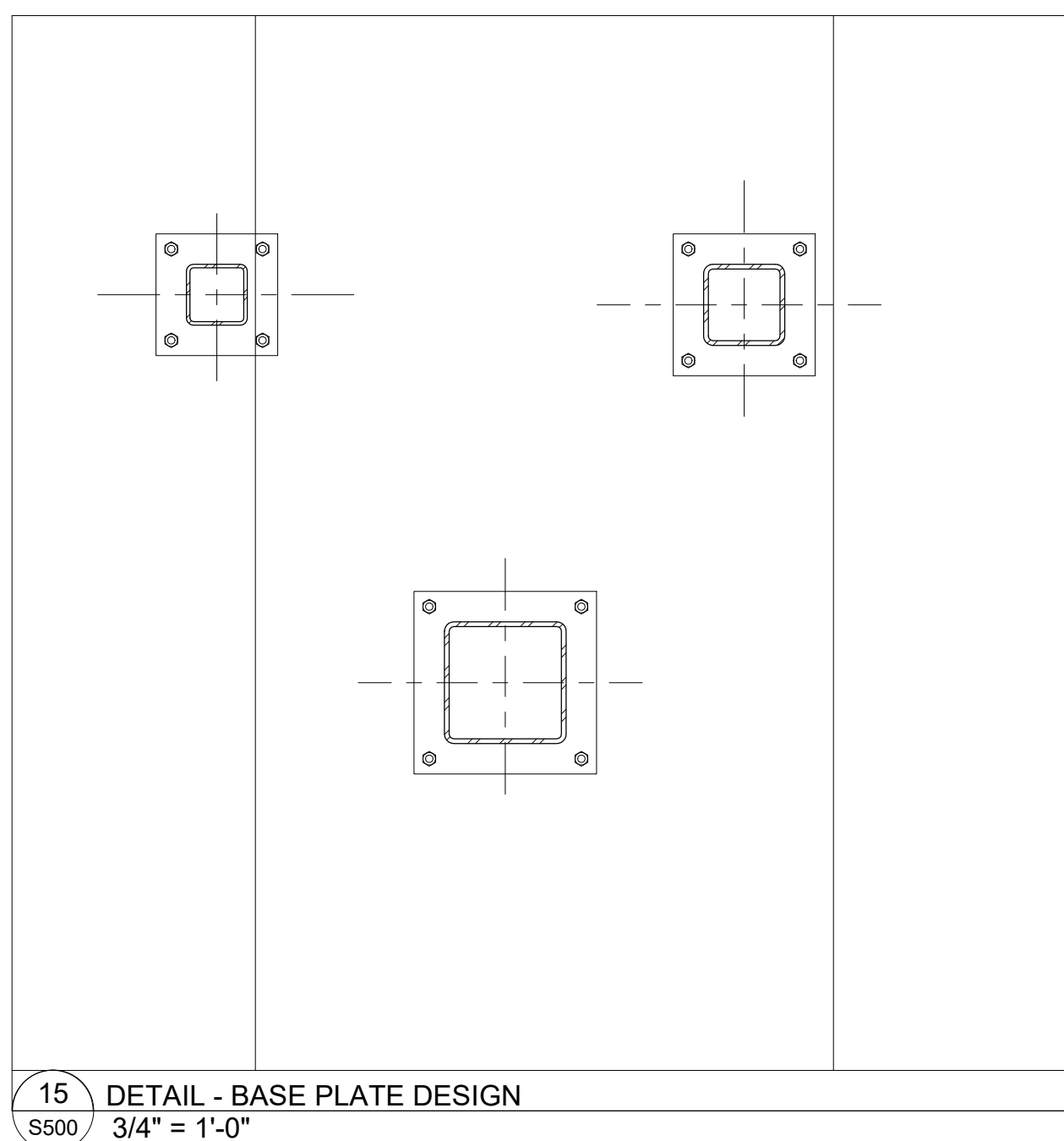
12 SECTION - TYPICAL GRADE BEAM CONSTRUCTION JOINT
3/4" = 1'-0"



13 SECTION - TYPICAL STEPPED GRADE BEAM
1/2" = 1'-0"



14 SECTION - PILE CAP @ EXTERIOR WALL
1/2" = 1'-0"



15 DETAIL - BASE PLATE DESIGN
3/4" = 1'-0"

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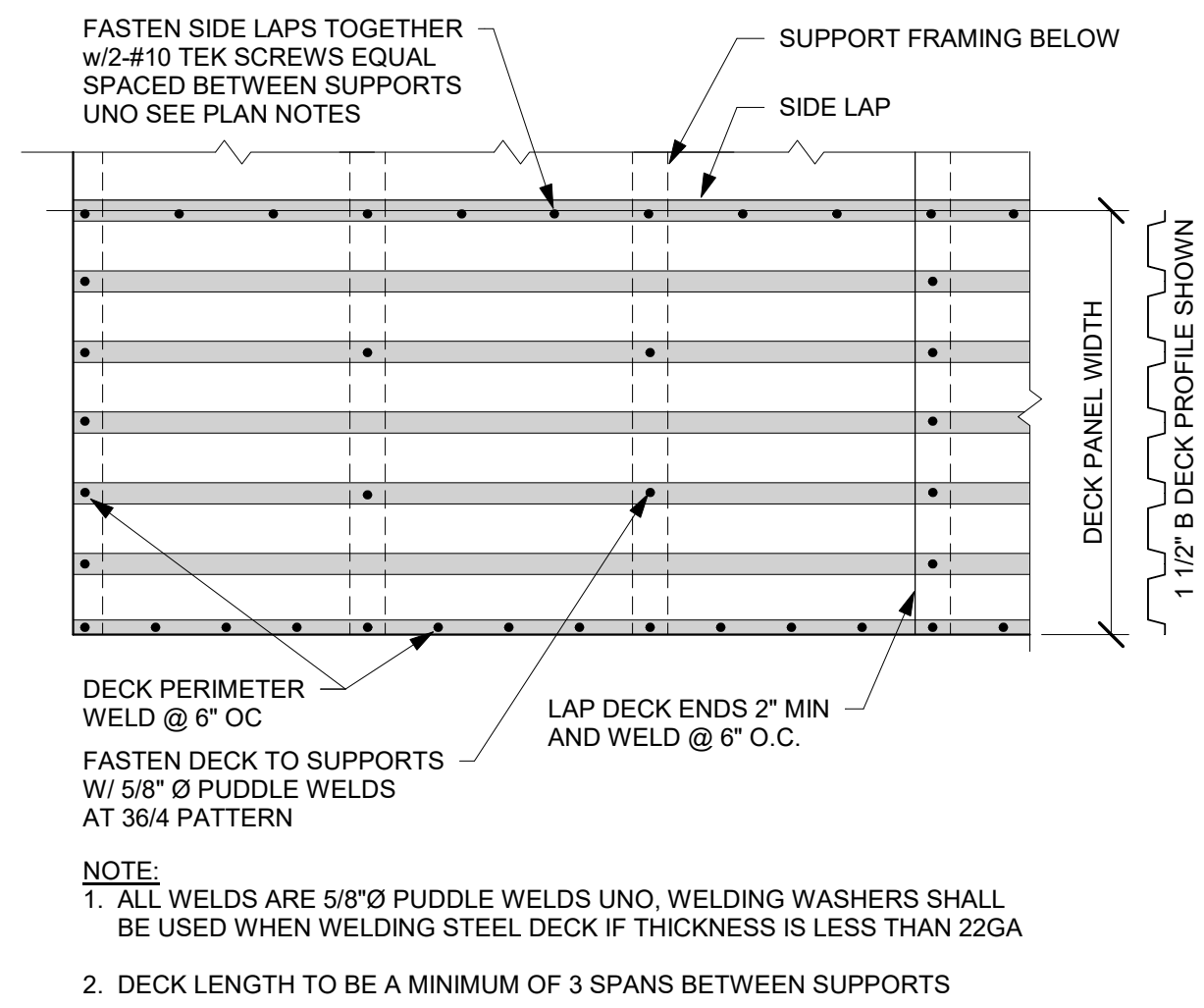
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FOUNDATION SECTIONS & DETAILS

Sheet Number
S500

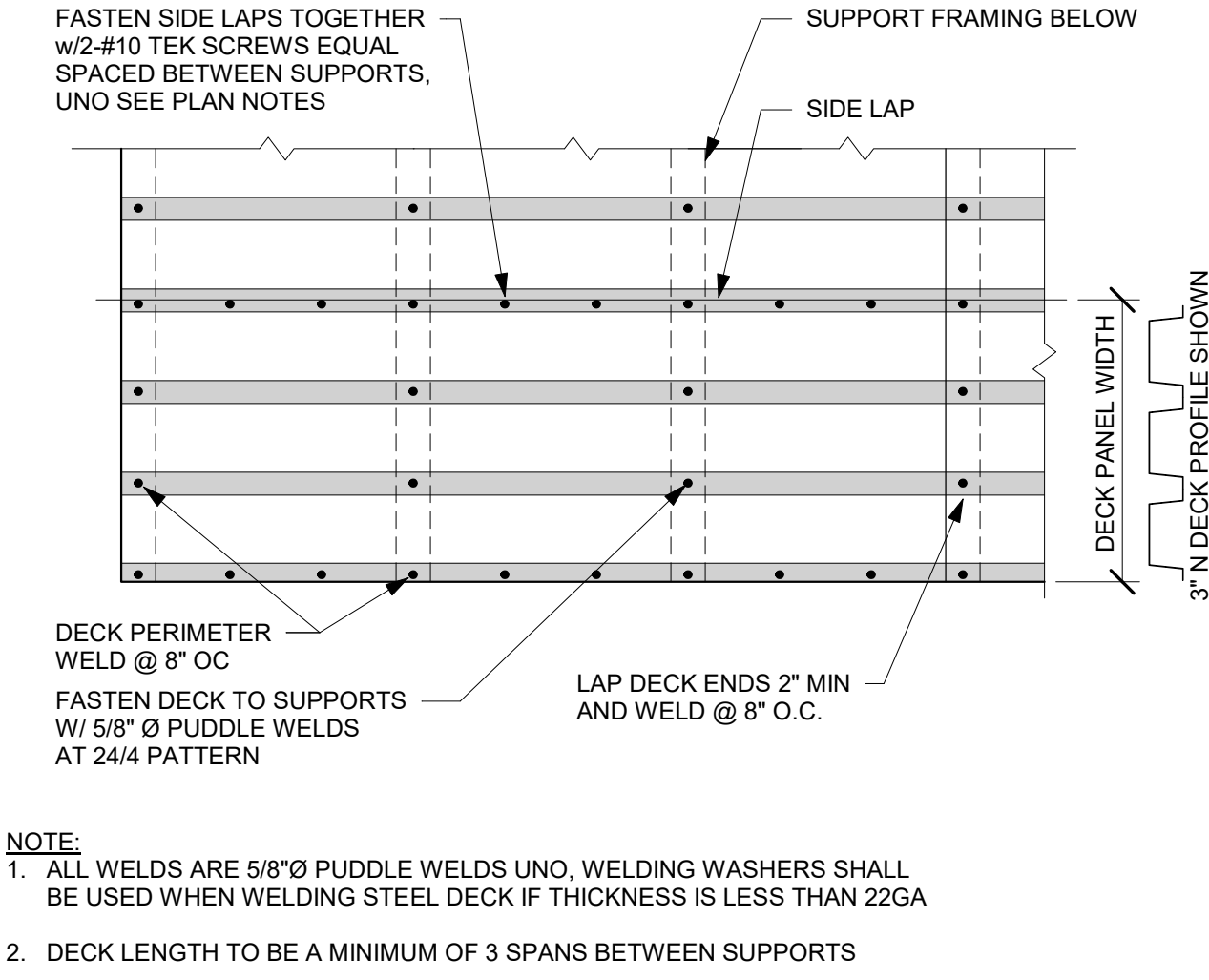
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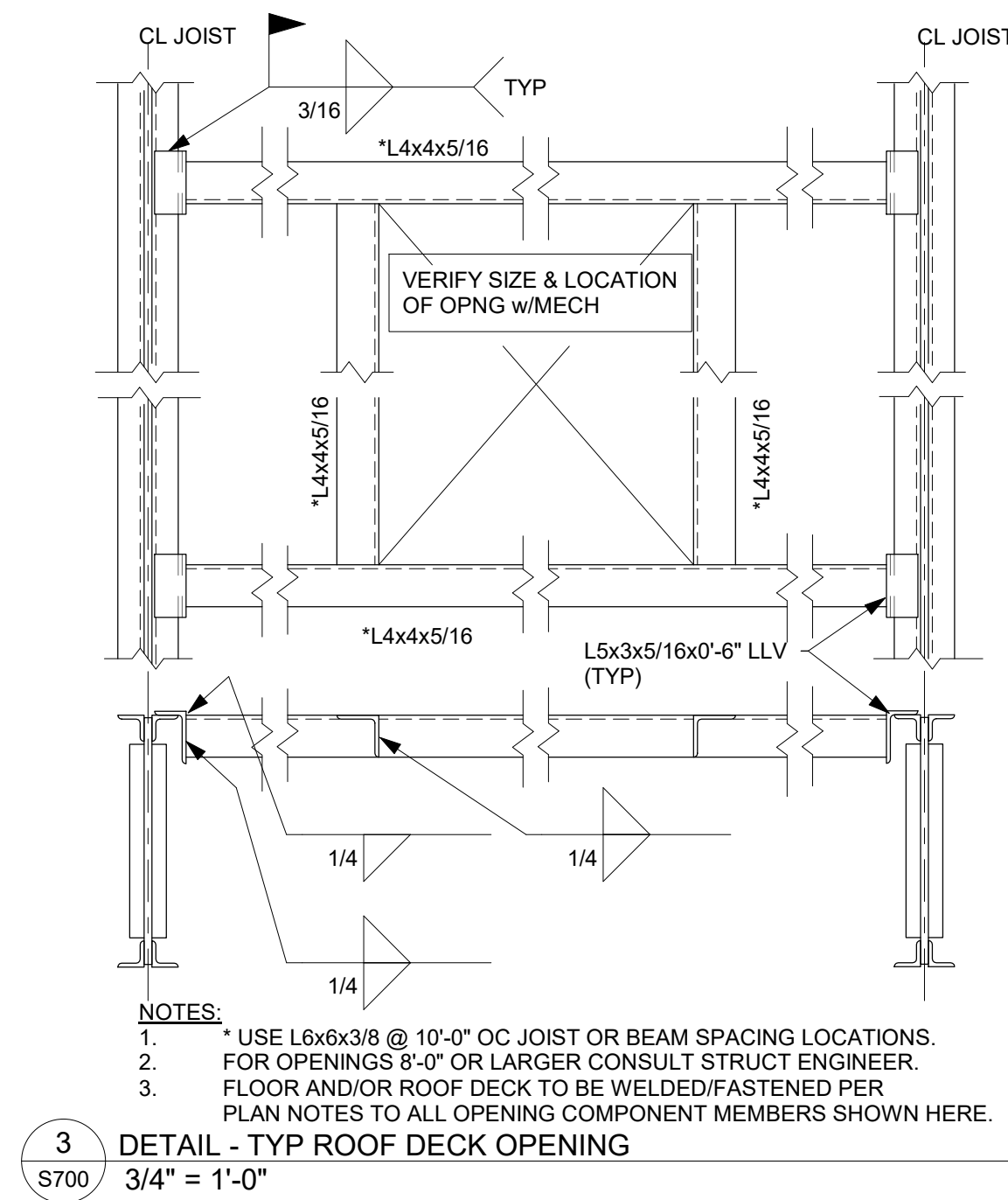
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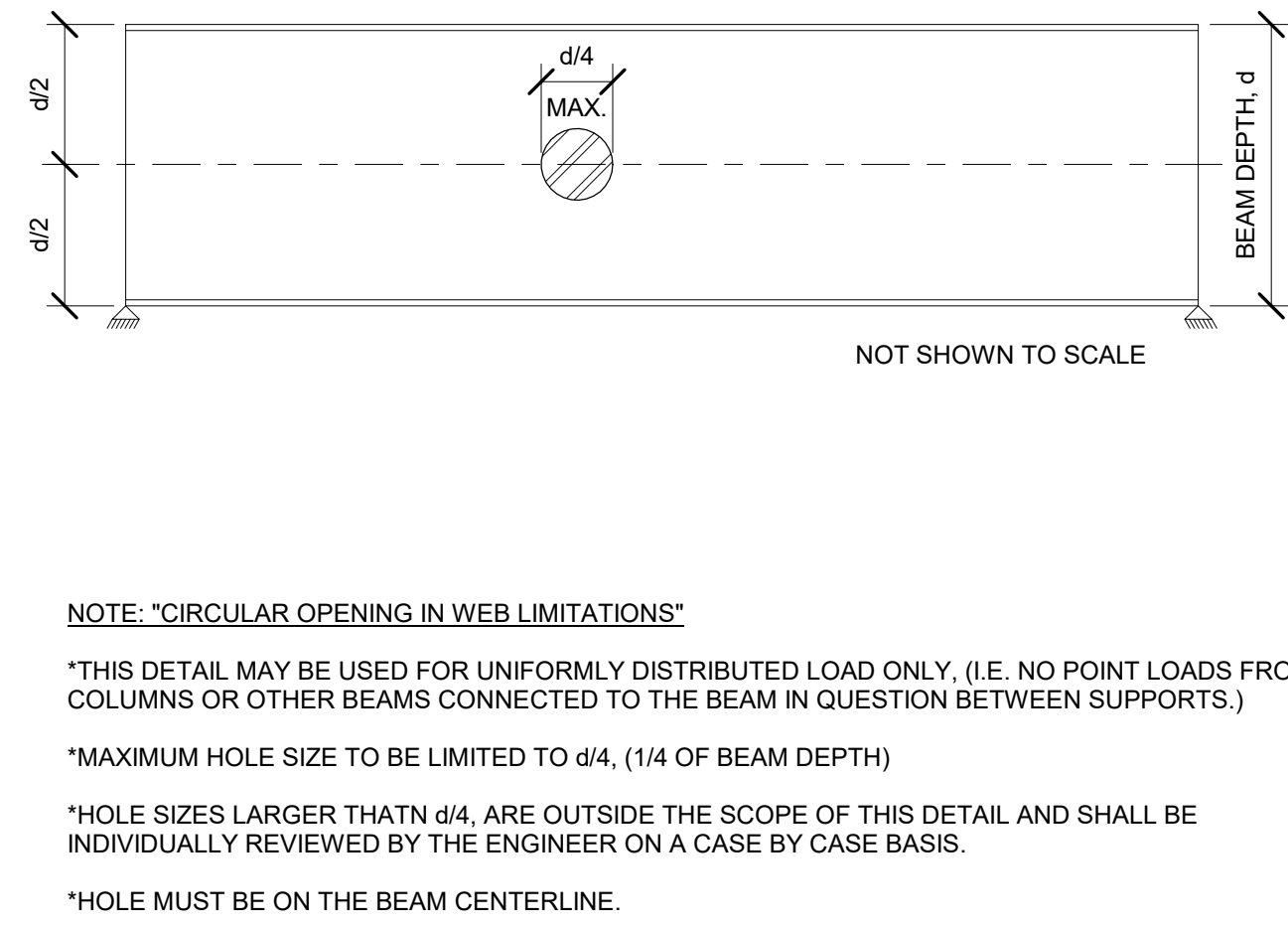
1 DETAIL - TYP 1 1/2" ROOF DECK WELDING
3/4" = 1'-0"



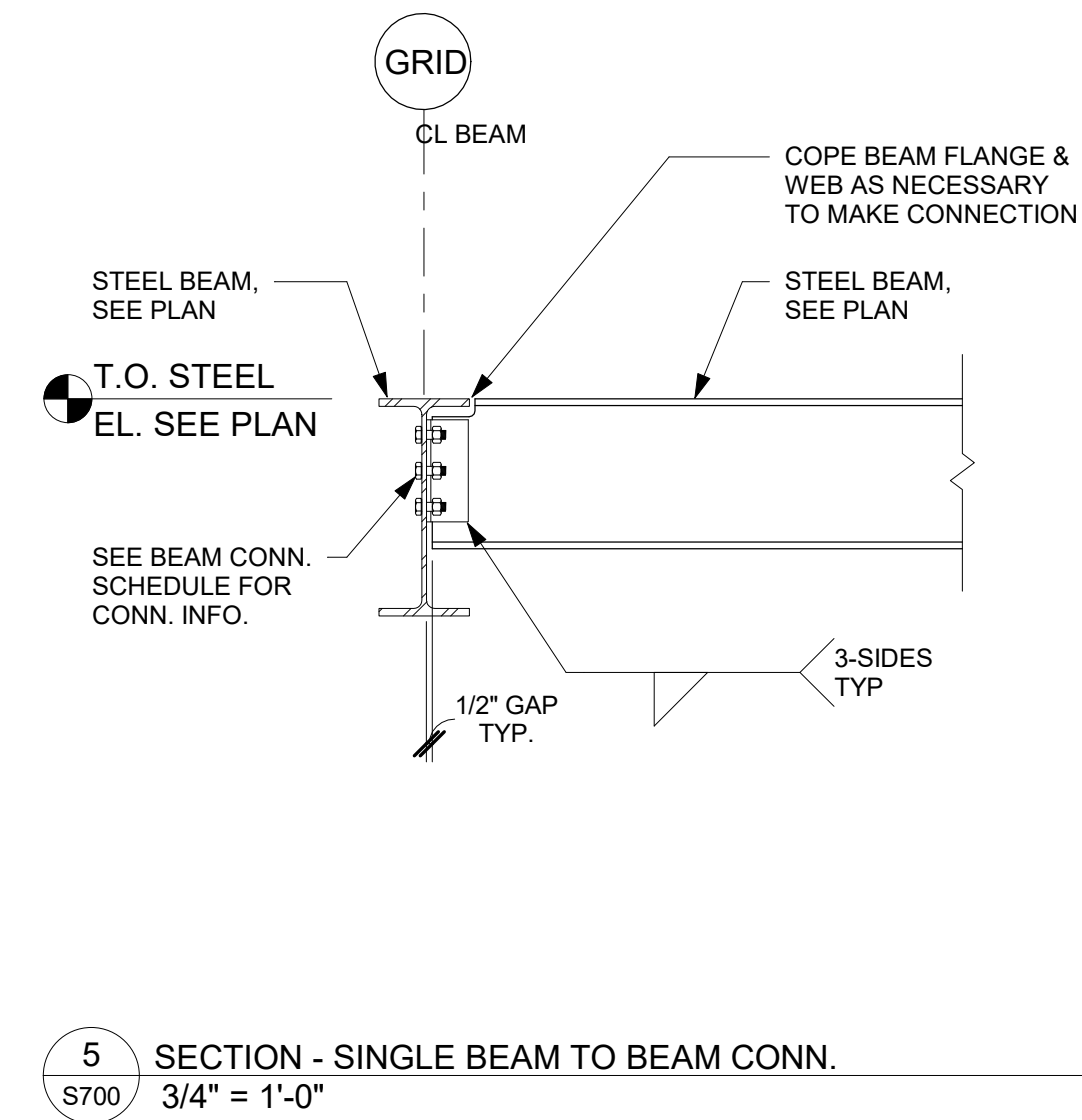
2 DETAIL - TYP 3" ROOF DECK WELDING
3/4" = 1'-0"



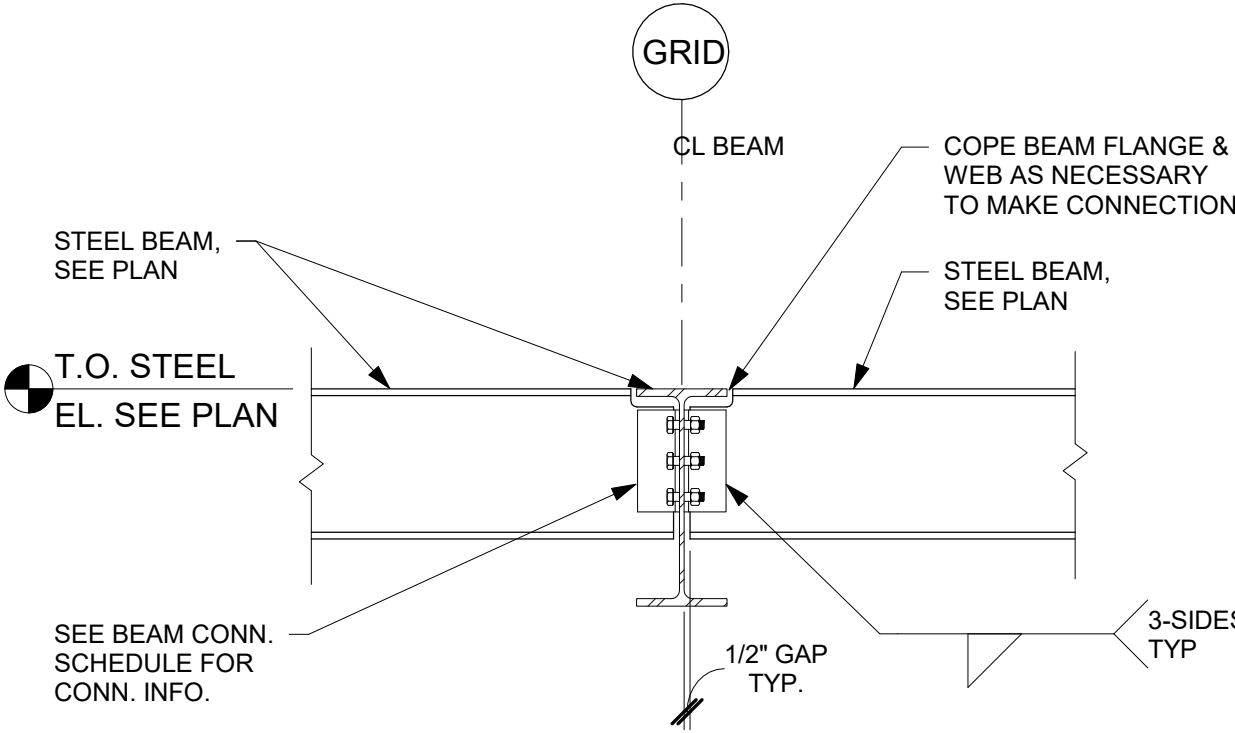
3 DETAIL - TYP ROOF DECK OPENING
3/4" = 1'-0"



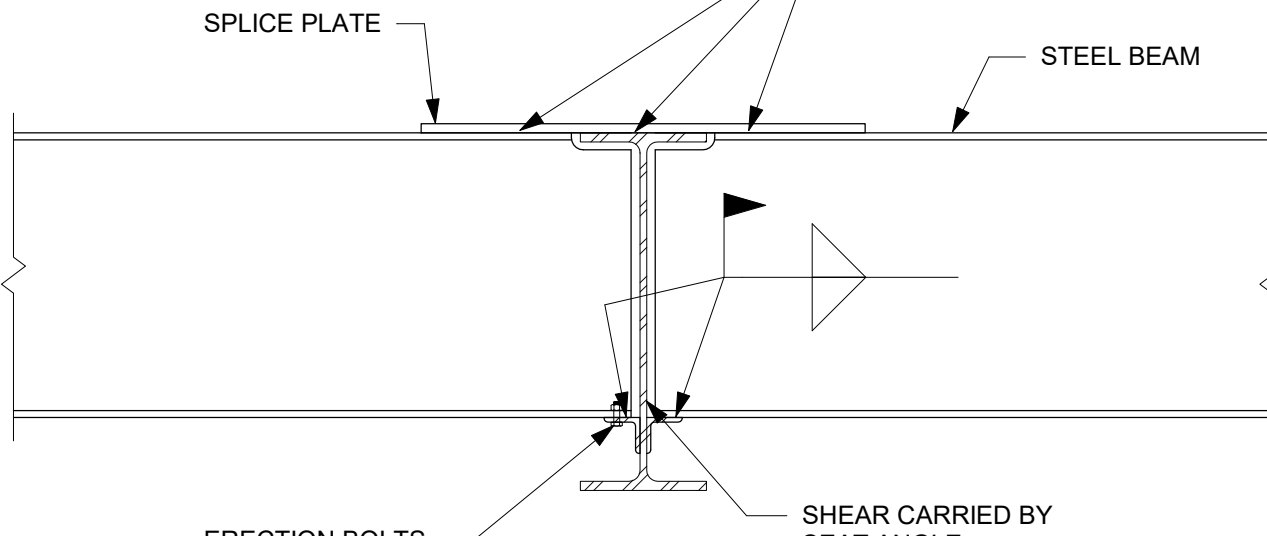
4 DETAIL - PENETRATION OPENING IN BEAM WEB
3/4" = 1'-0"



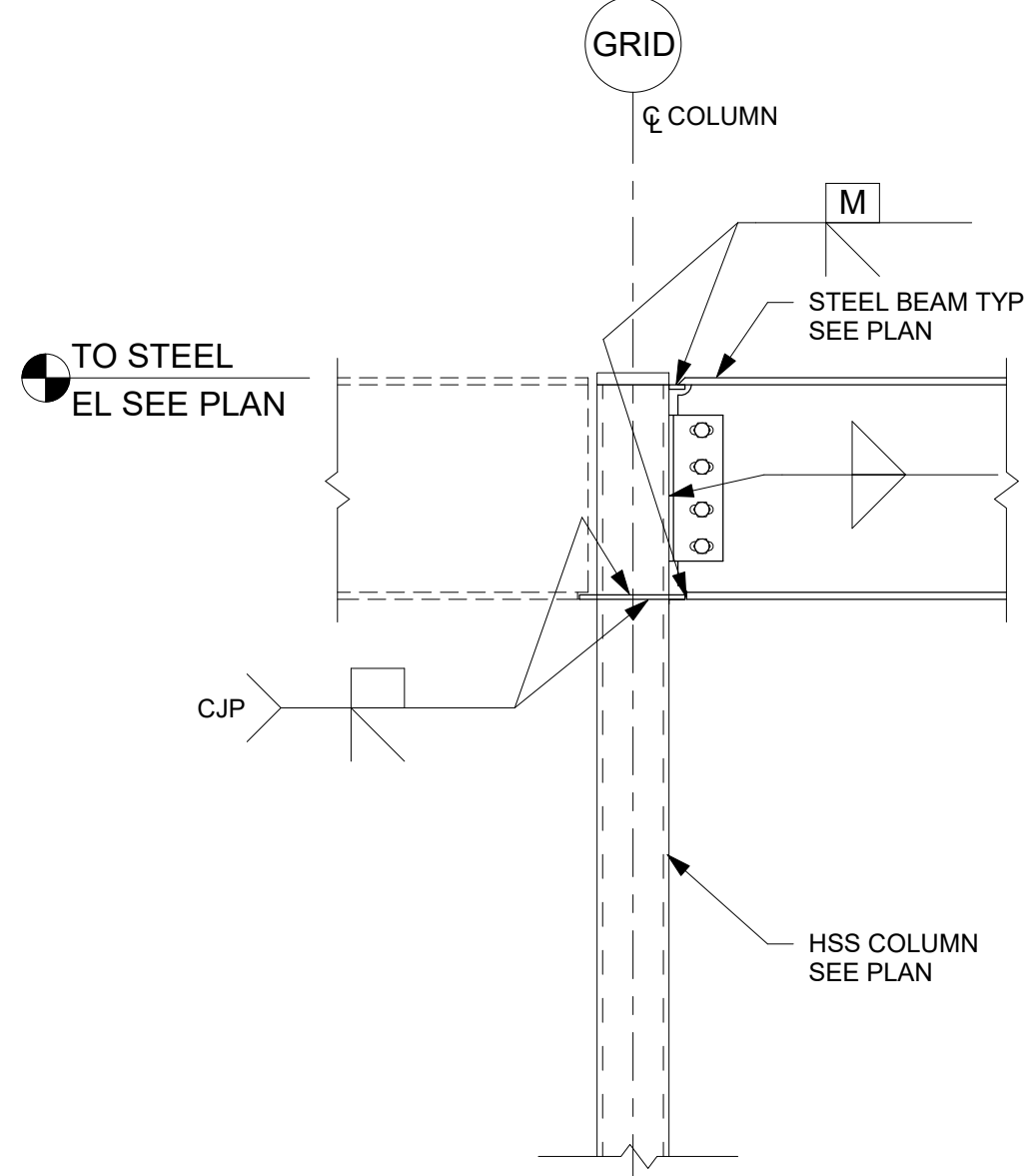
5 SECTION - SINGLE BEAM TO BEAM CONN.
3/4" = 1'-0"



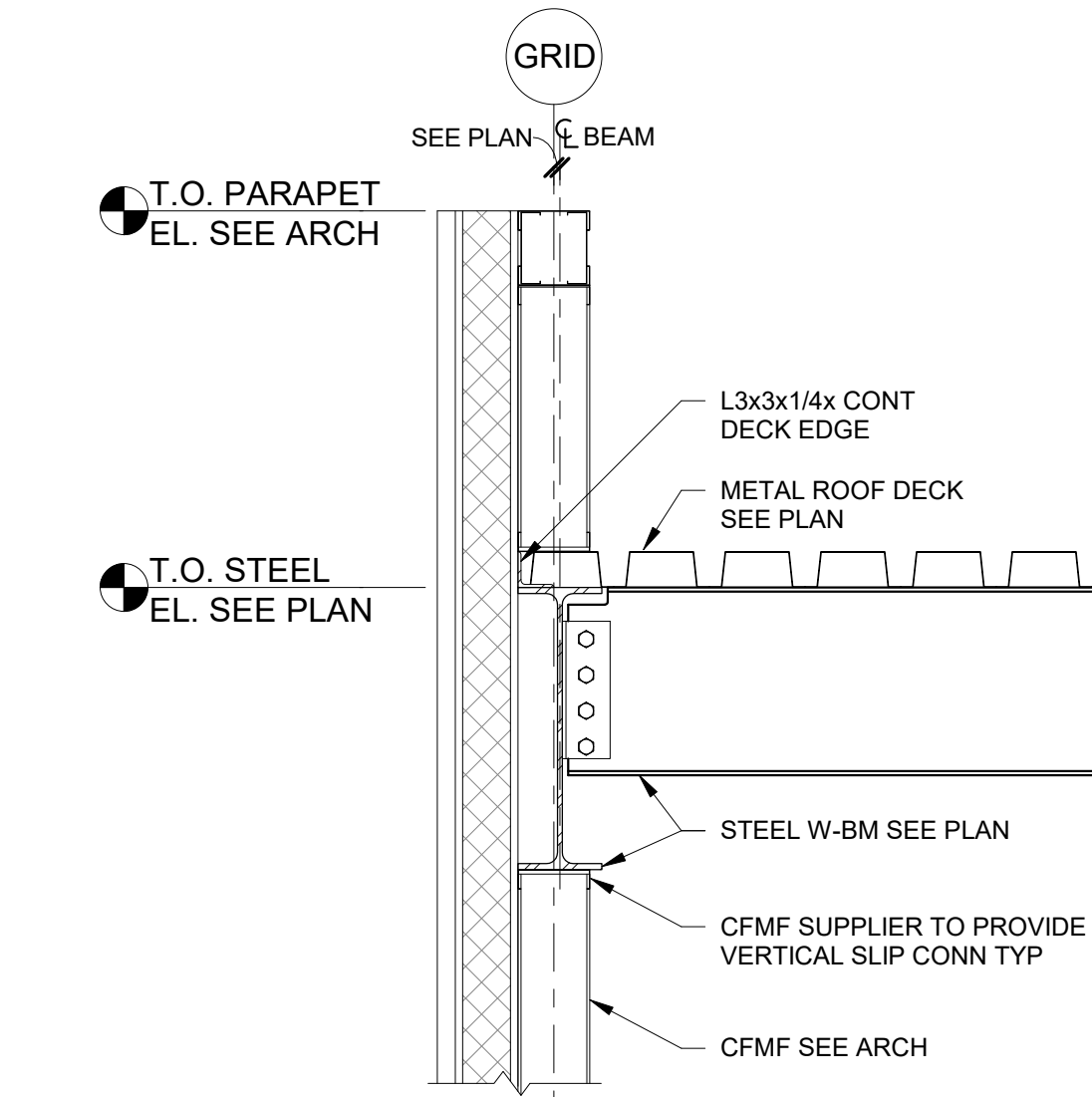
6 SECTION - DBL BEAM TO BEAM CONN.
3/4" = 1'-0"



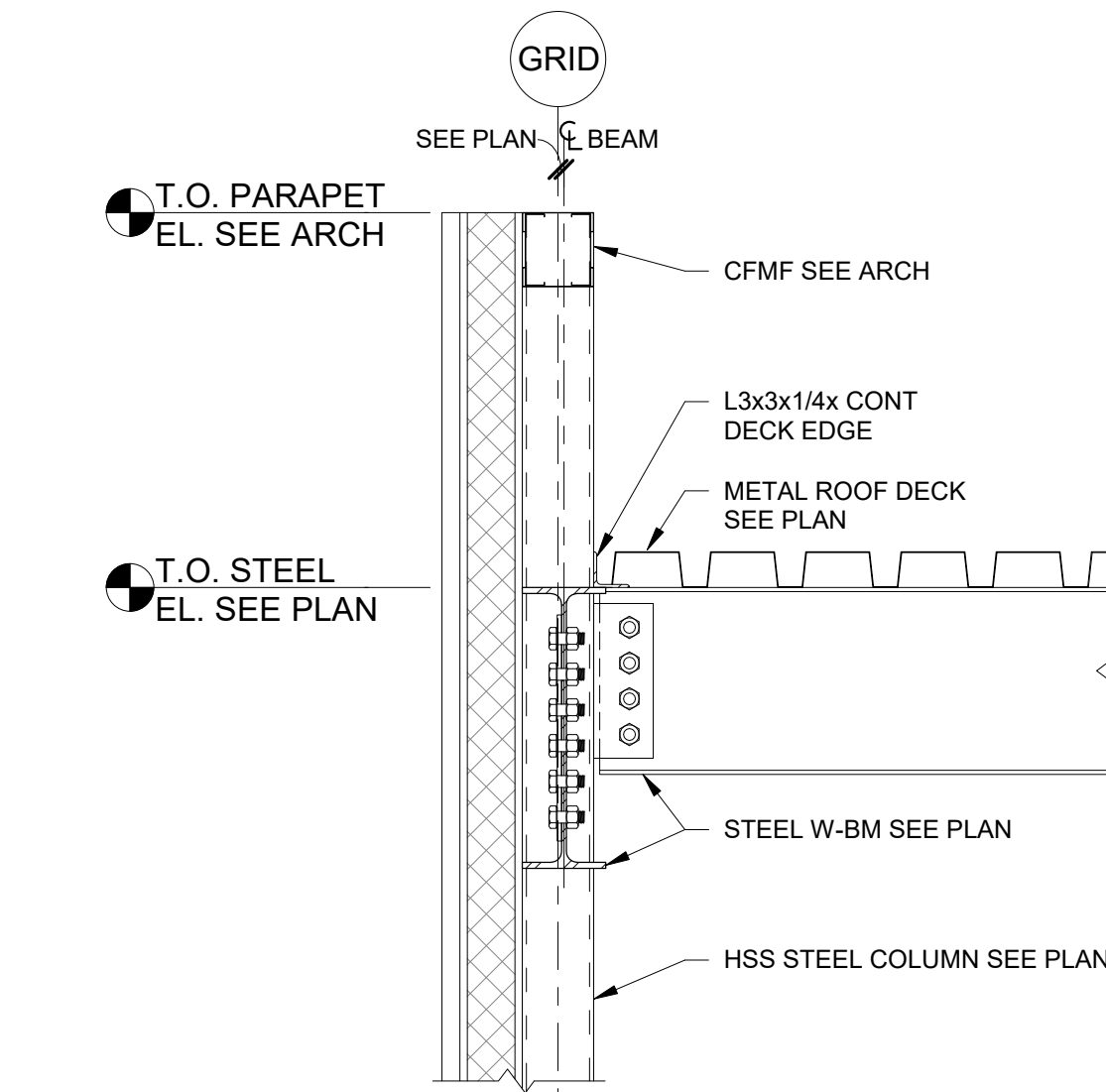
7 DETAIL - WELDED MOMENT CONNECTION
3/4" = 1'-0"



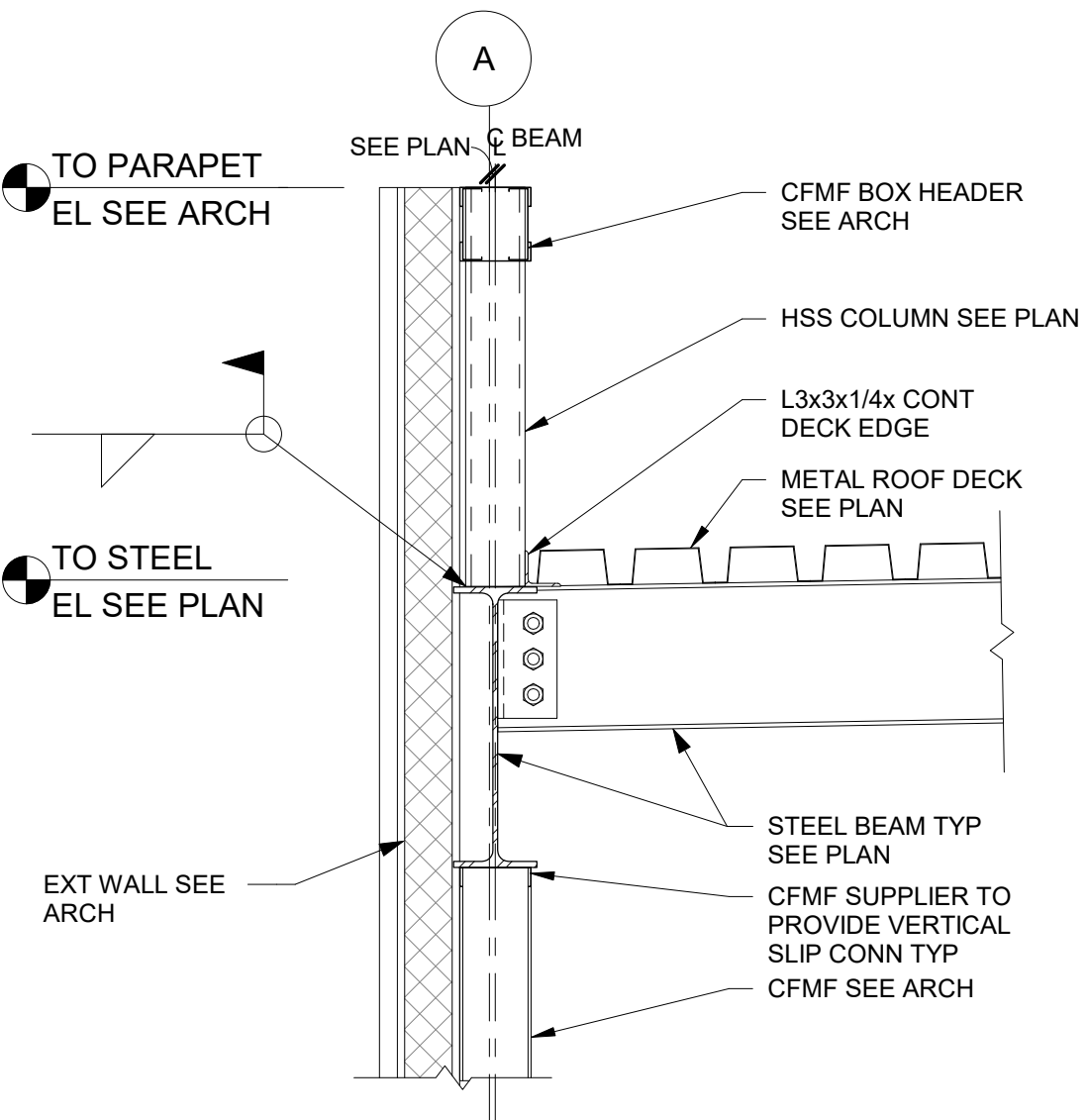
8 DETAIL - MOMENT CONNECTION BEAM TO SQUARE COLUMN
3/4" = 1'-0"



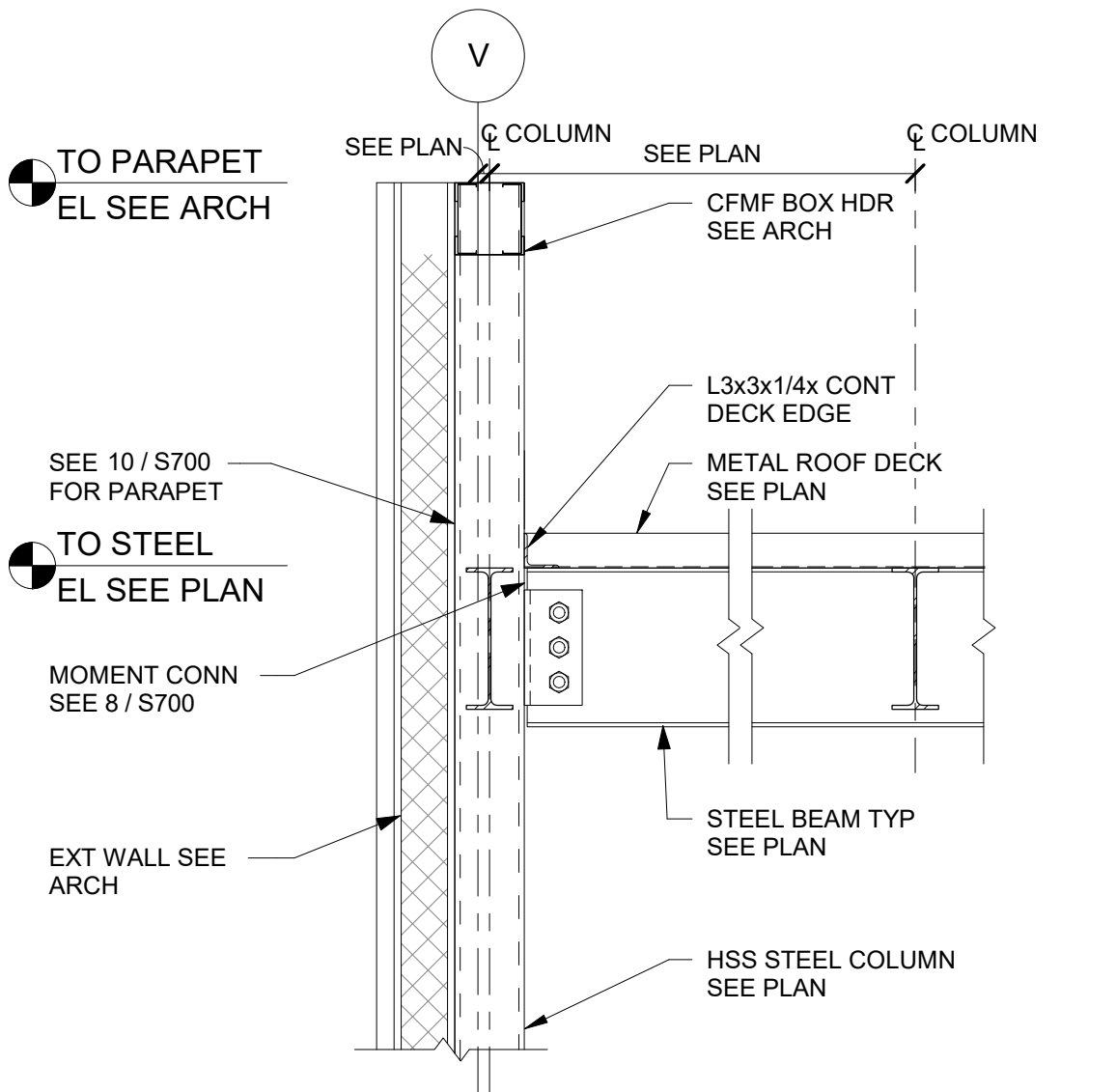
9 SECTION - TYPICAL ROOF FRAMING
3/4" = 1'-0"



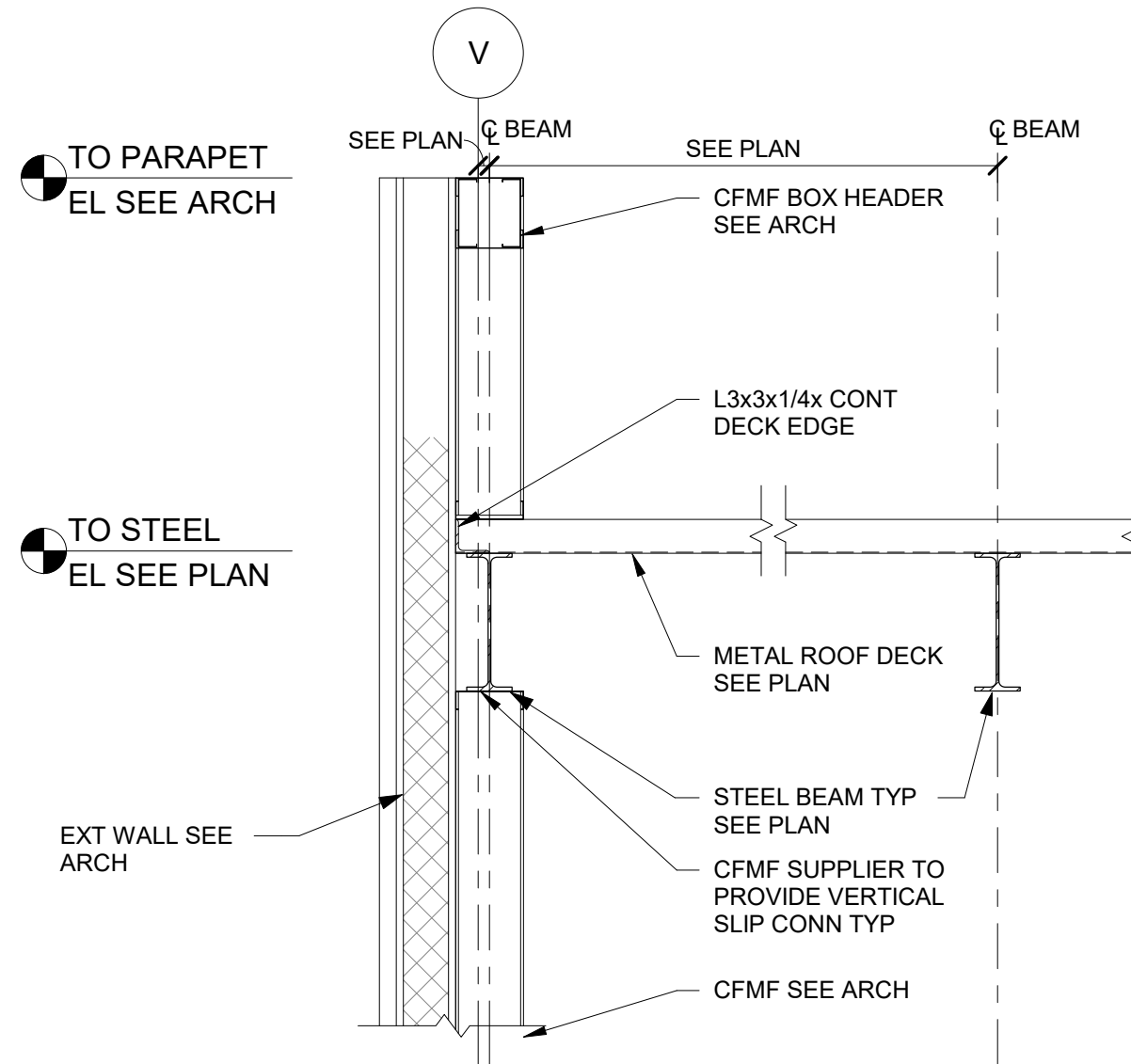
10 SECTION - TYPICAL ROOF FRAMING @ COLUMN
3/4" = 1'-0"



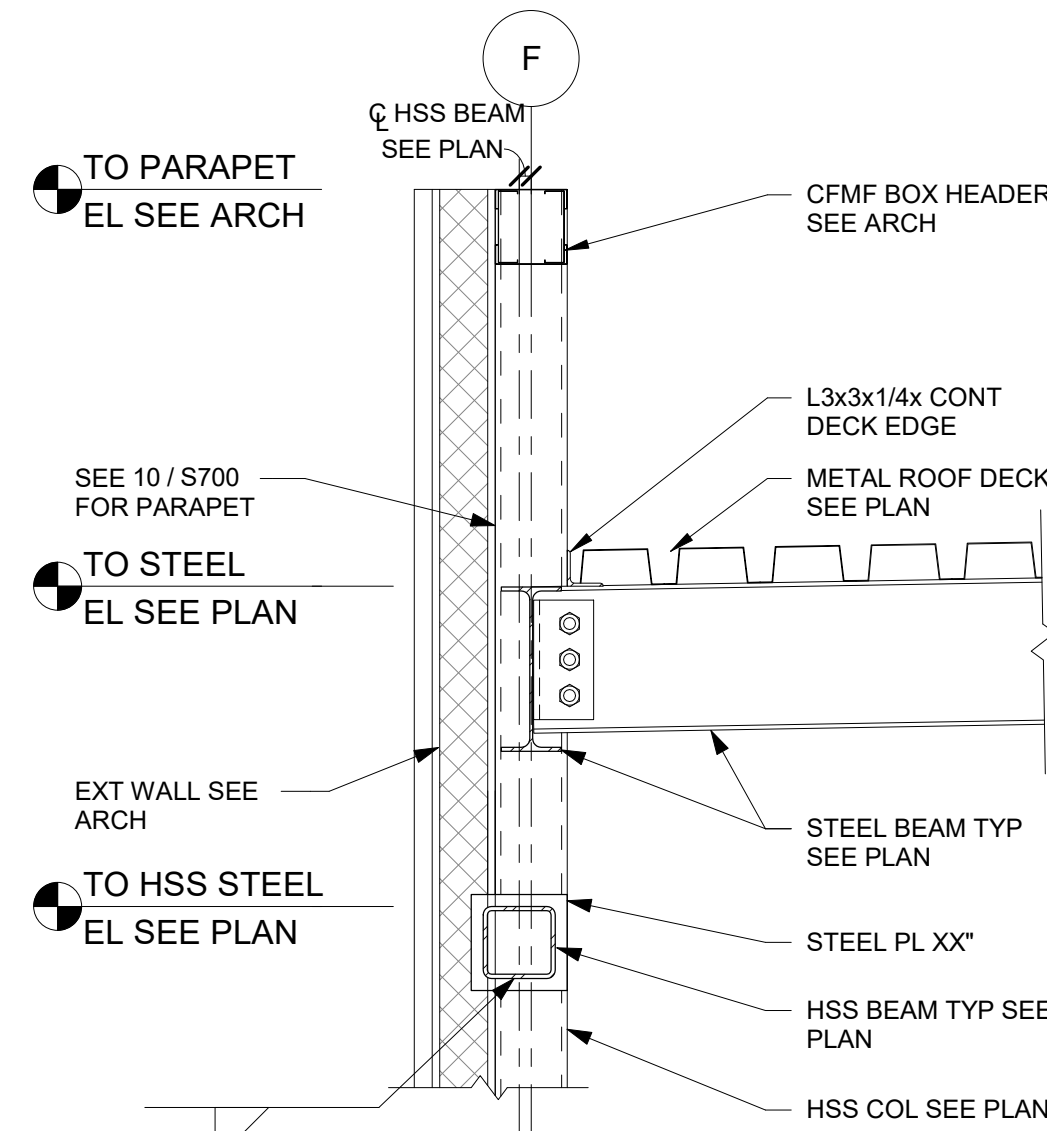
11 SECTION - TYPICAL LOW ROOF FRAMING ALONG GRID A
3/4" = 1'-0"



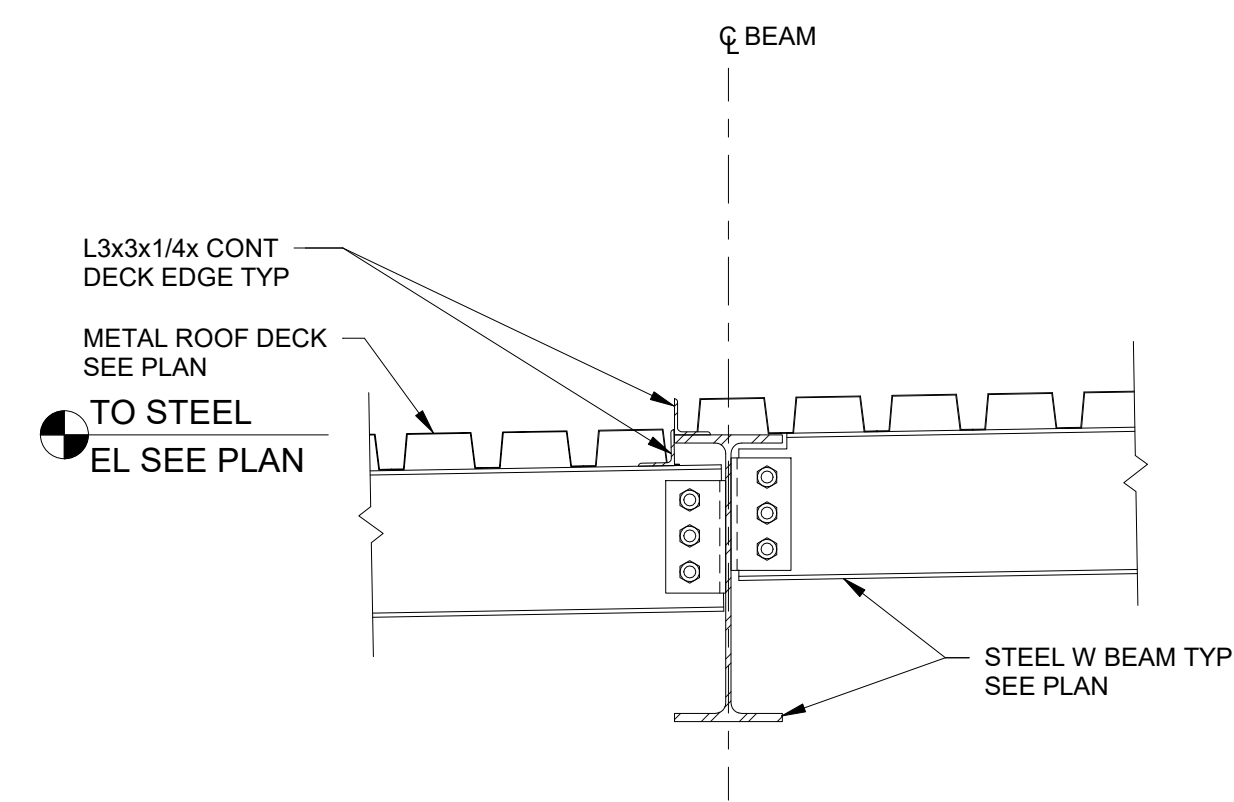
12 SECTION - TYPICAL ROOF FRAMING @ COLUMN ALONG GRID V
3/4" = 1'-0"



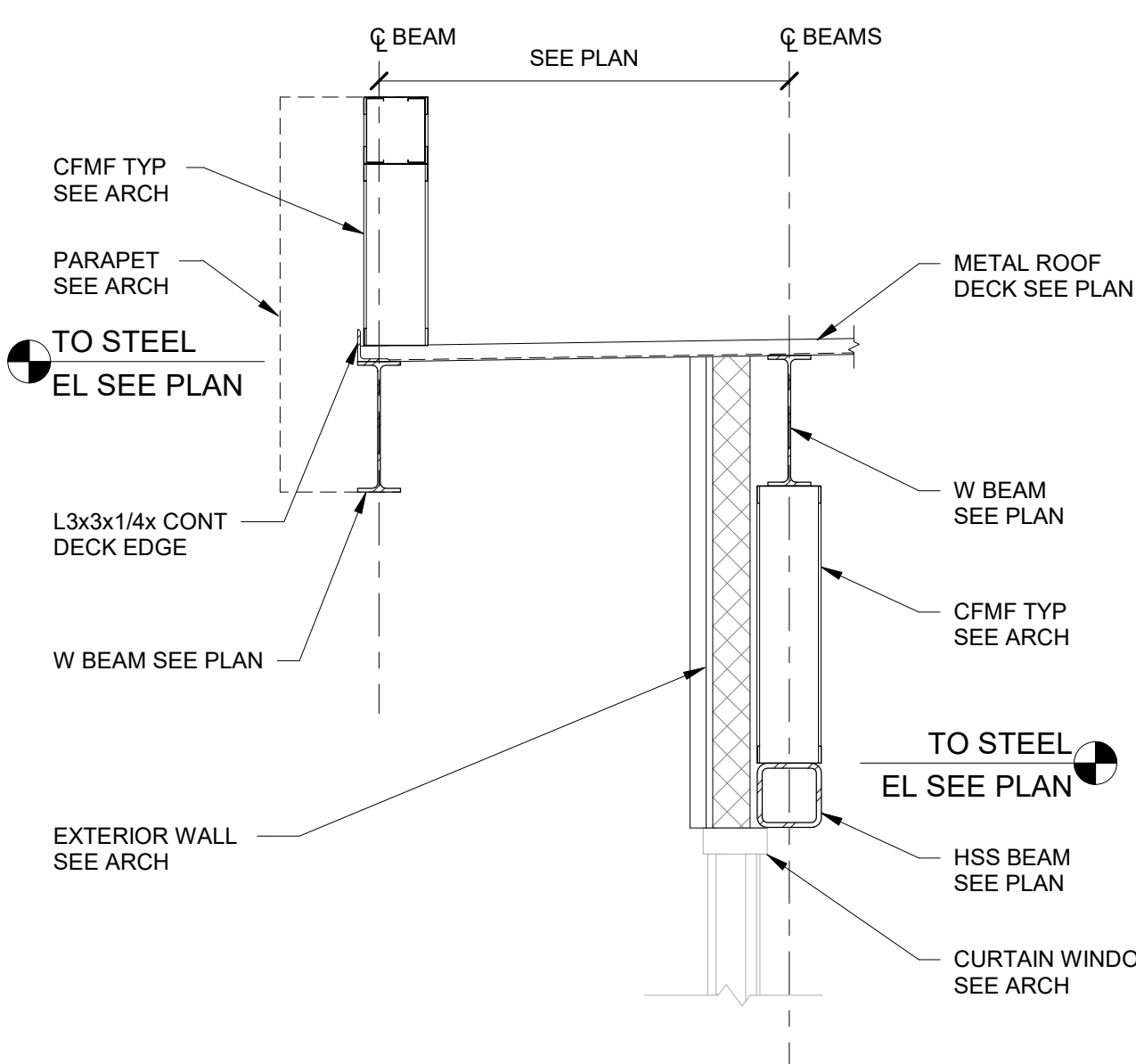
13 SECTION - TYPICAL LOW ROOF FRAMING ALONG GRID V
3/4" = 1'-0"



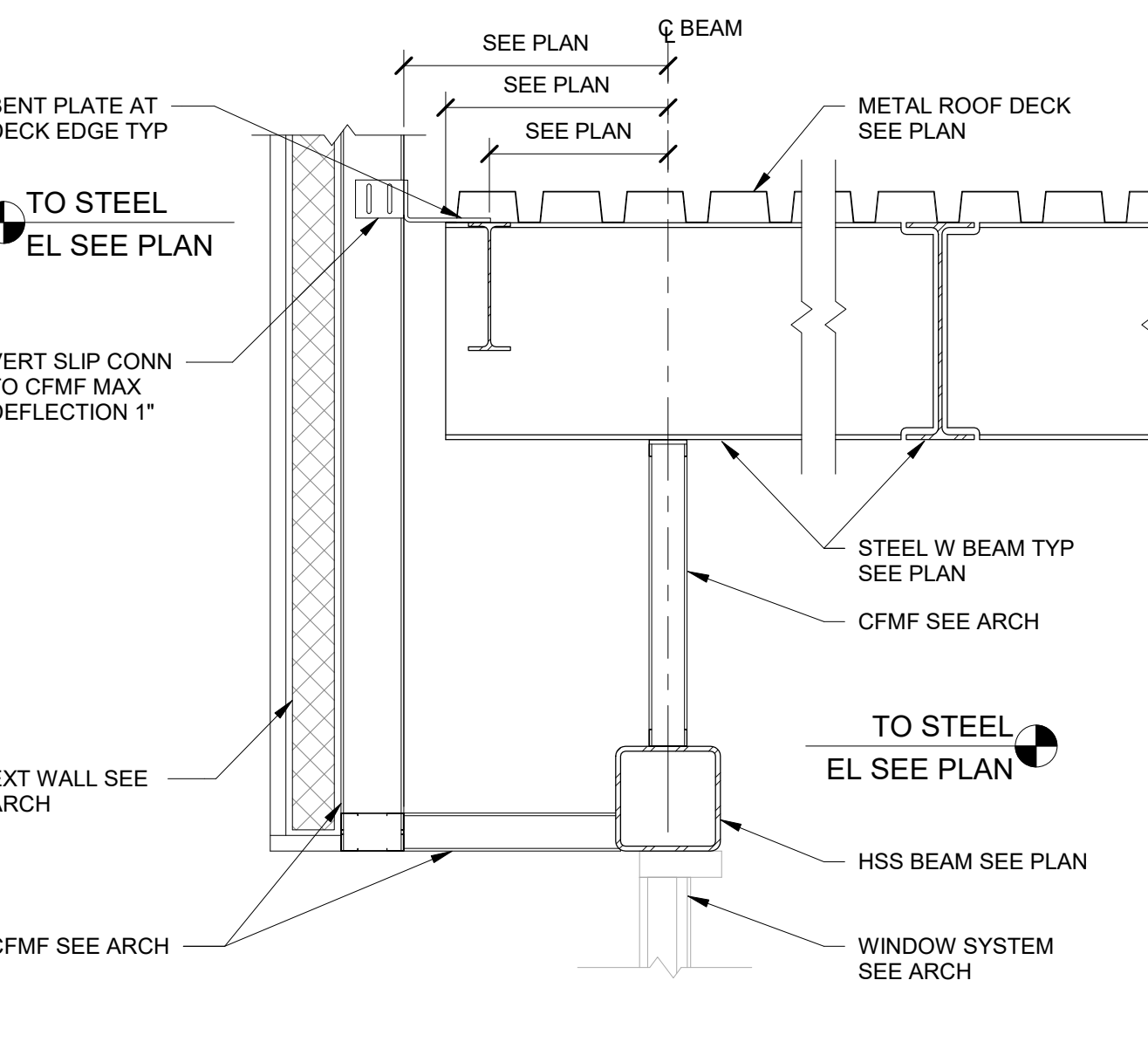
14 SECTION - LOW ROOF FRAMING @ COLUMN ALONG GRID F
3/4" = 1'-0"



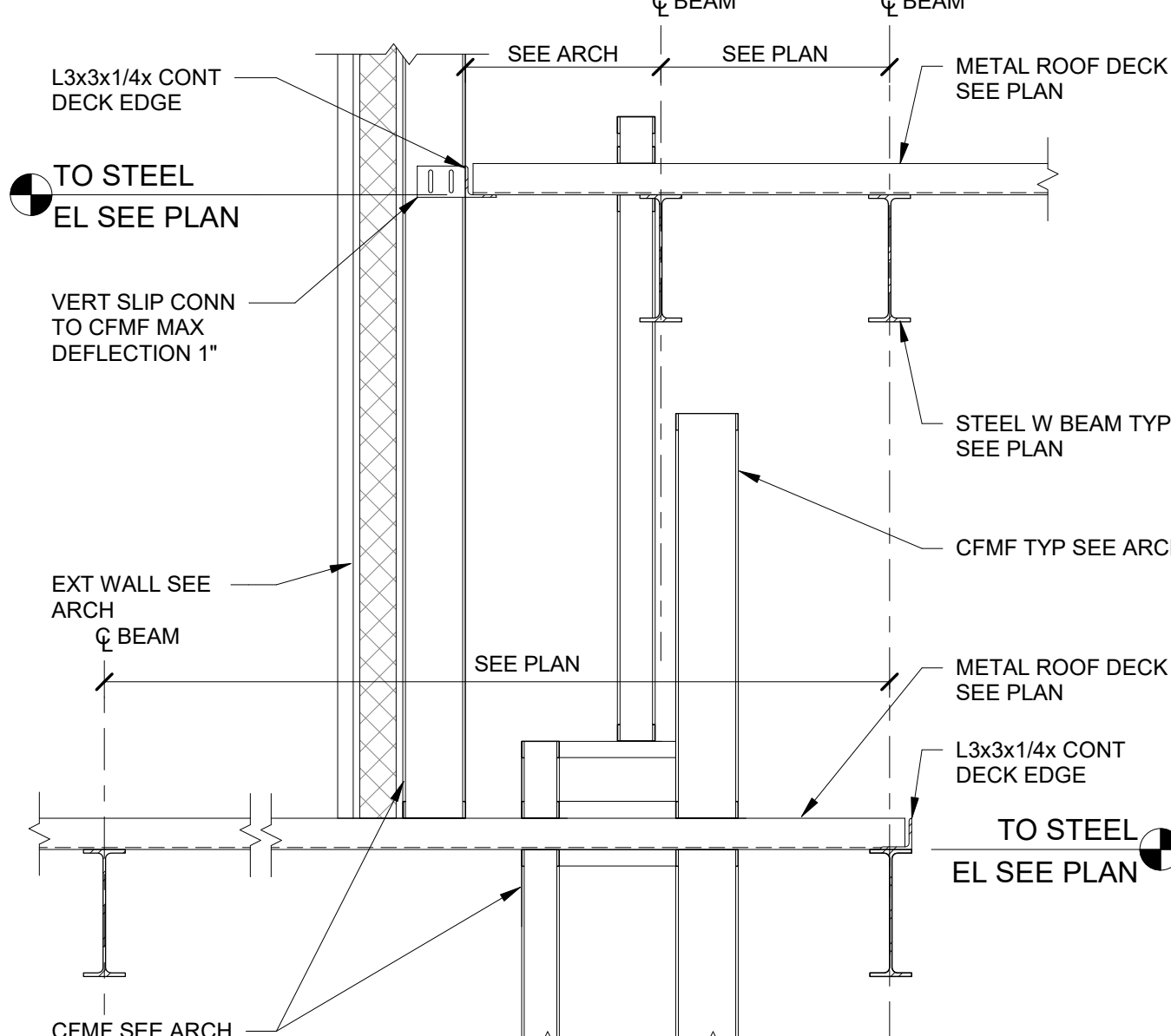
15 SECTION - LOW ROOF FRAMING AT TRANSITION
3/4" = 1'-0"



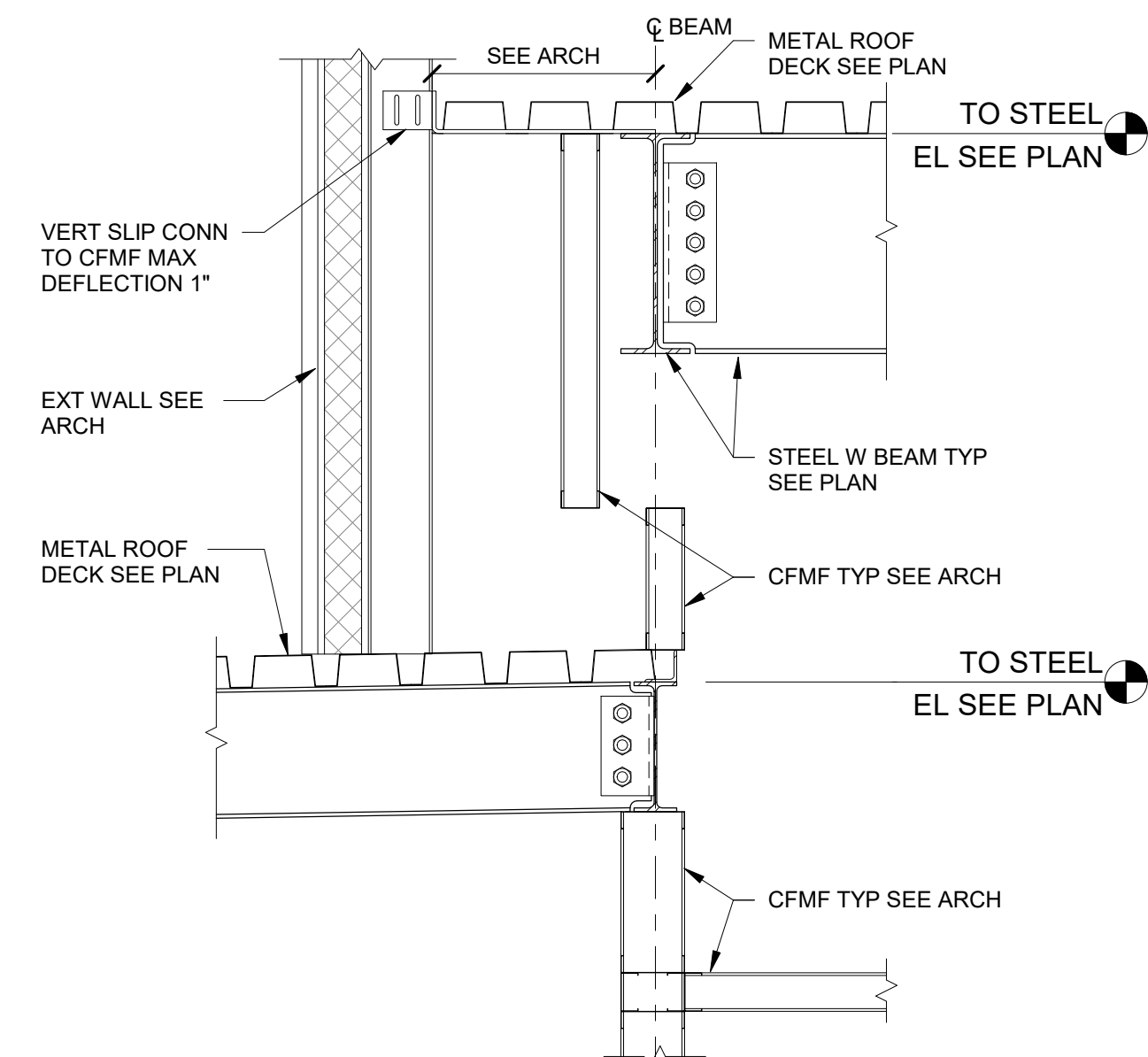
16 SECTION - LOW ROOF FRAMING ALONG GRID H
3/4" = 1'-0"



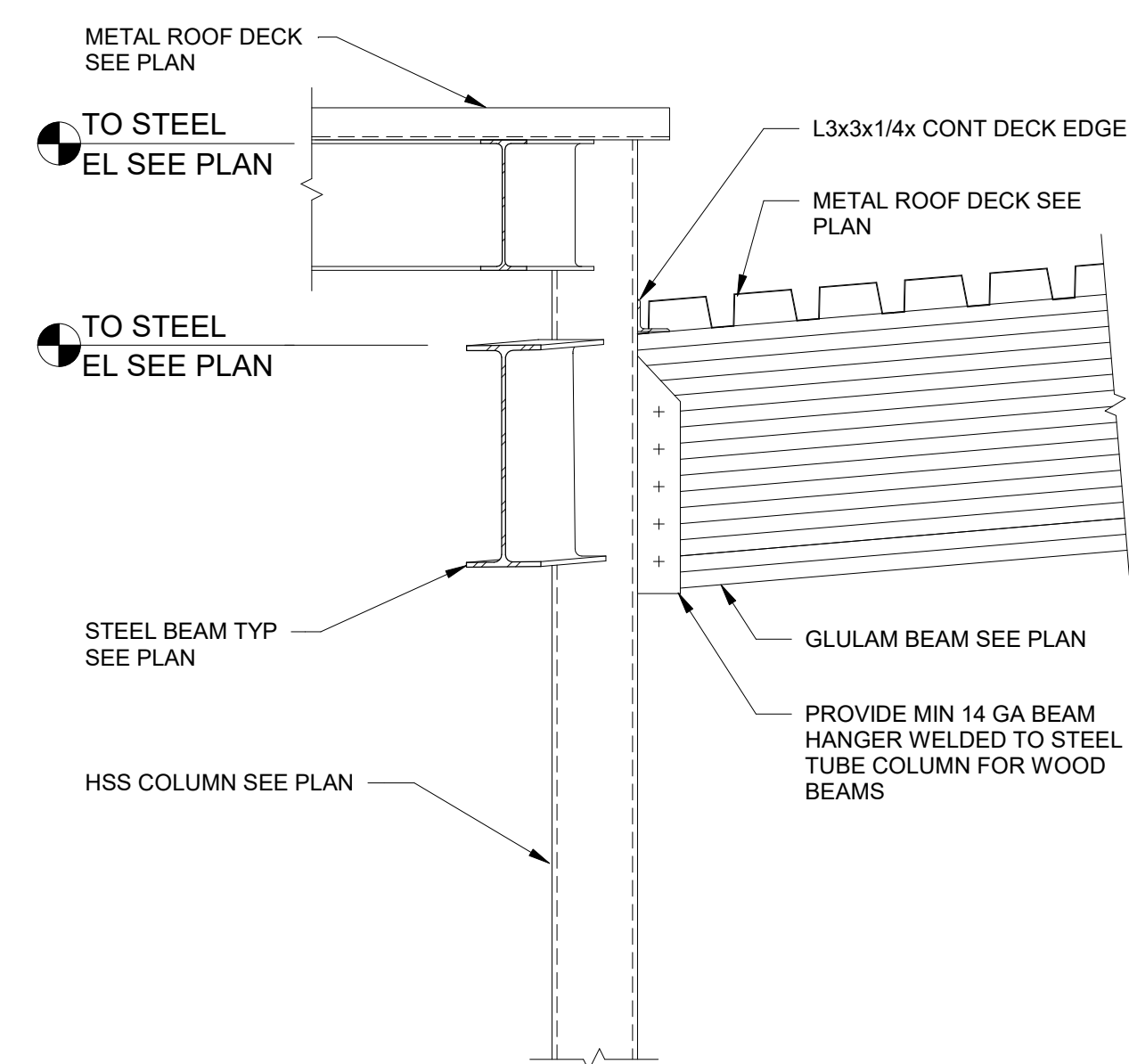
17 SECTION - ROOF FRAMING AT ROTUNDA
3/4" = 1'-0"



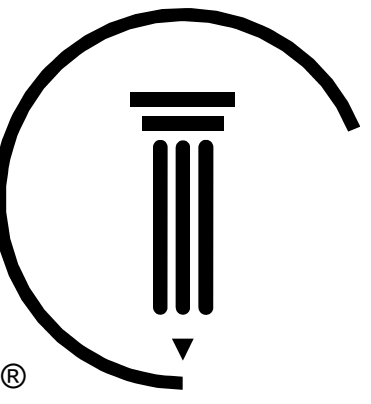
18 SECTION - ROOF FRAMING AT ROTUNDA
3/4" = 1'-0"



19 SECTION - ROOF FRAMING AT ROTUNDA
3/4" = 1'-0"



20 SECTION - ROOF FRAMING AT ROTUNDA
3/4" = 1'-0"



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Revisions		
No.	Date	Description

Project Information			
Phase:	50%	Date:	04/23/2021
Project No.:	Project Number	PIC / AIC:	

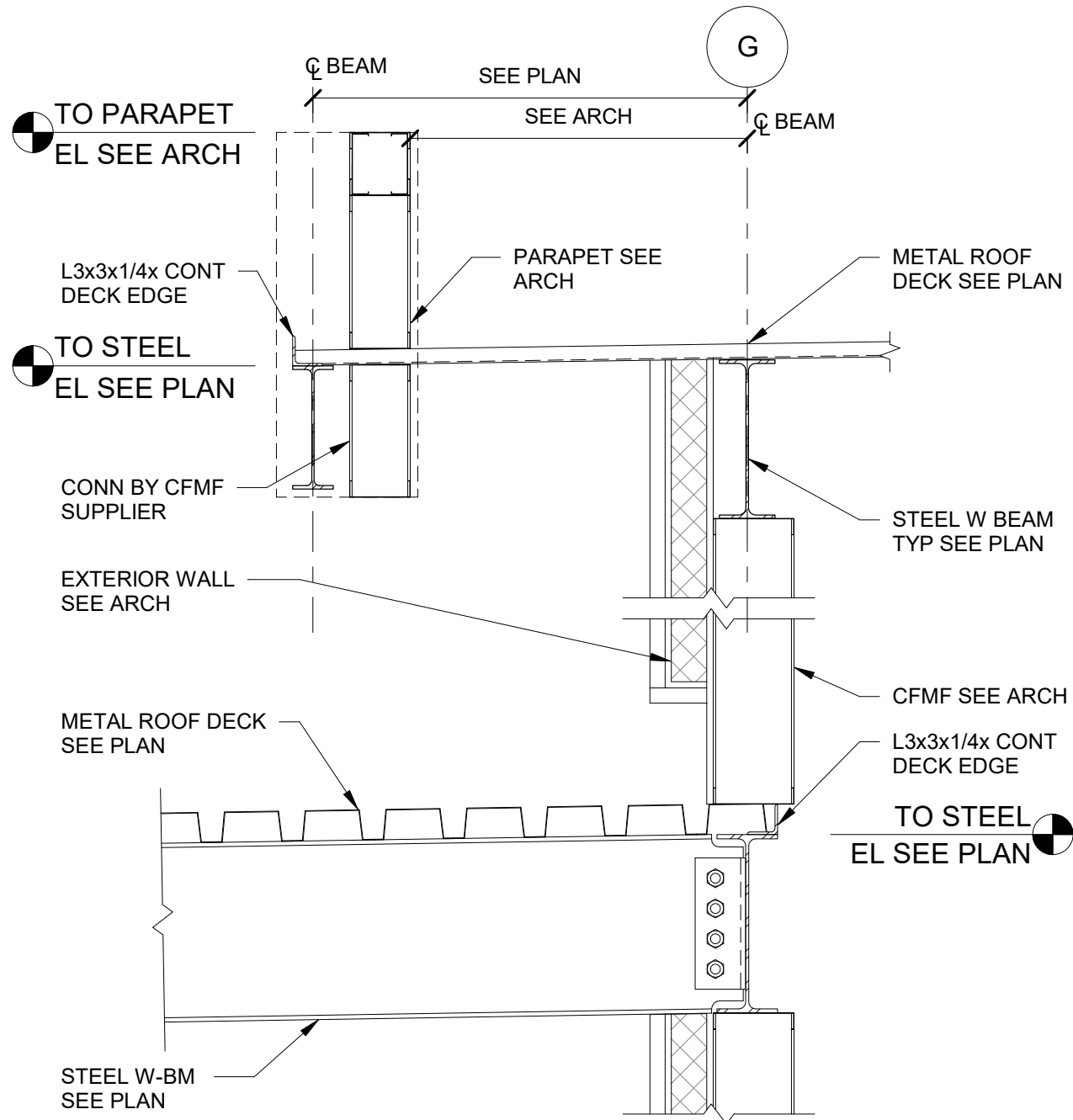
90% Construction Set

Sheet Title
FRAMING SECTIONS & DETAILS

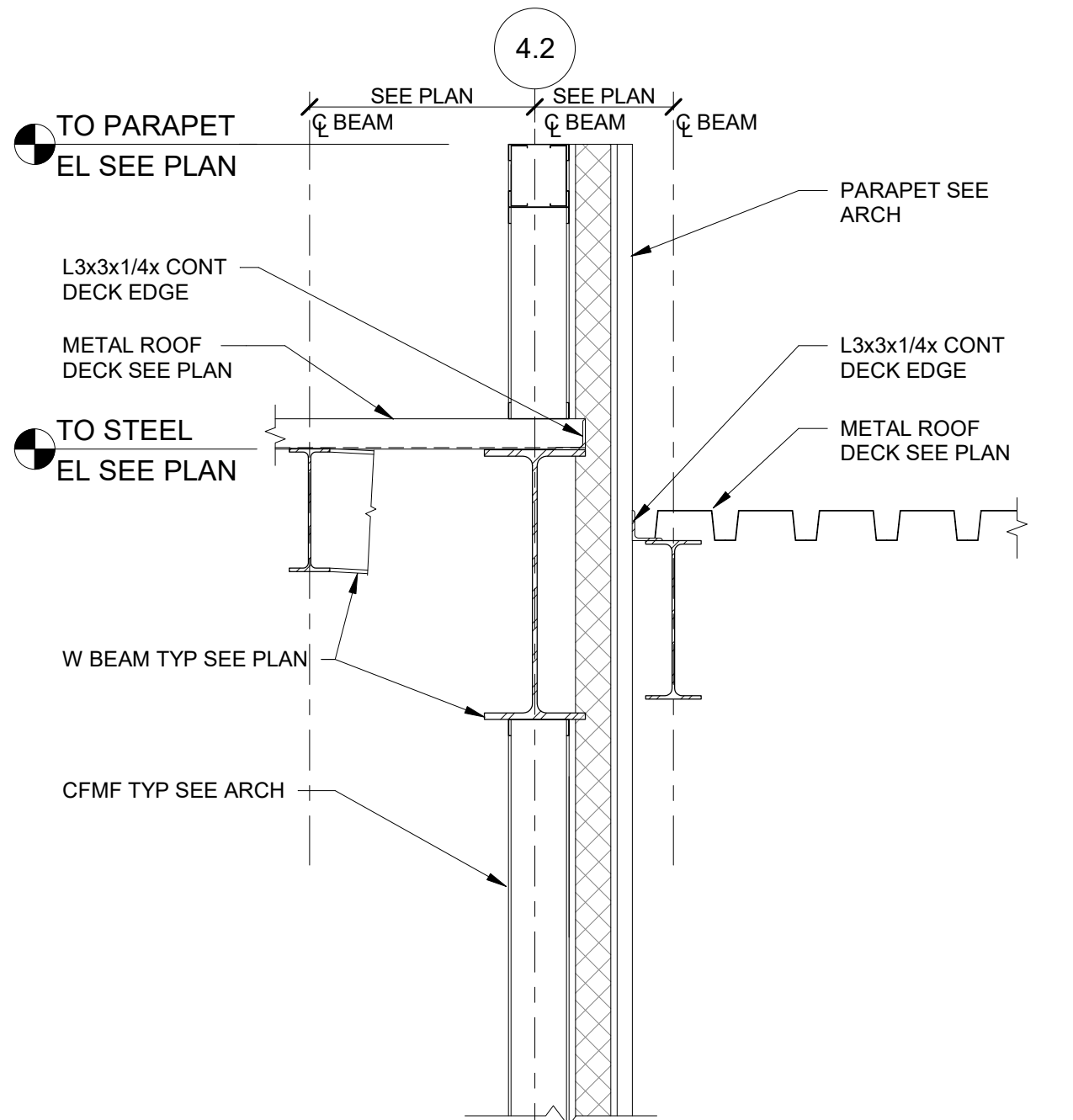
Sheet Number Current Revision

S700

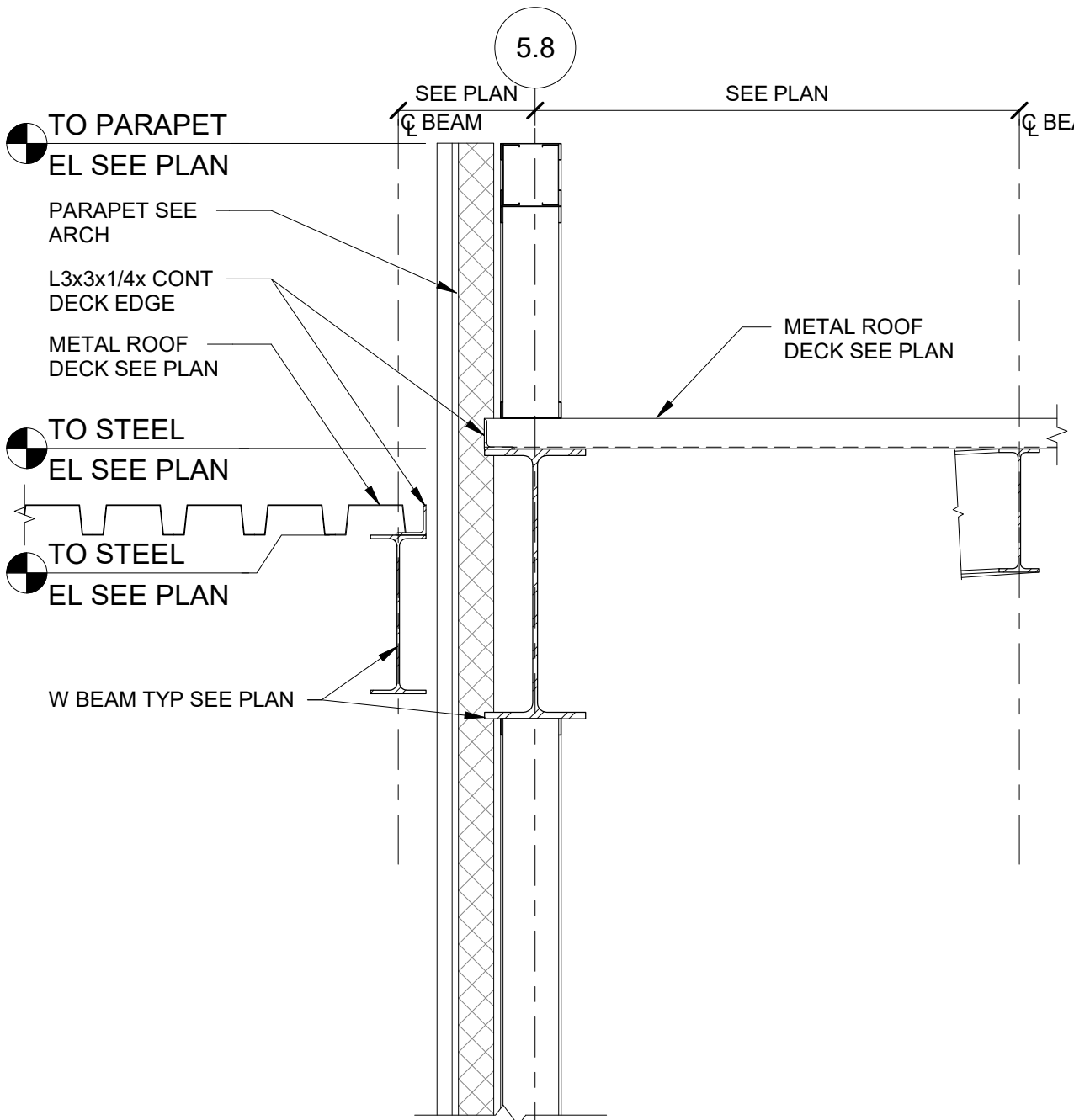
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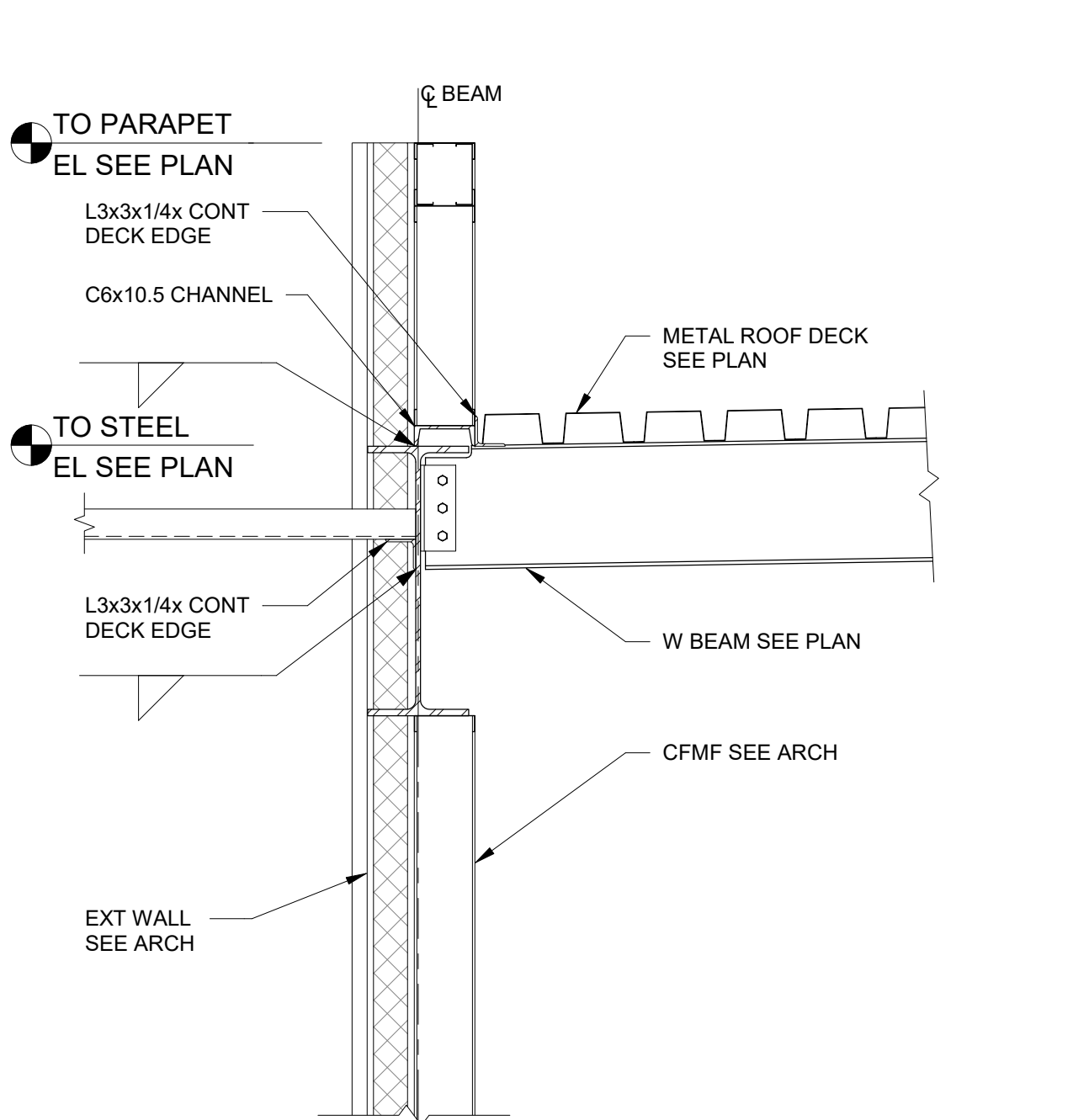
1 SECTION - LOW/HIGH ROOF FRAMING ALONG GRID G
S701 3/4" = 1'-0"



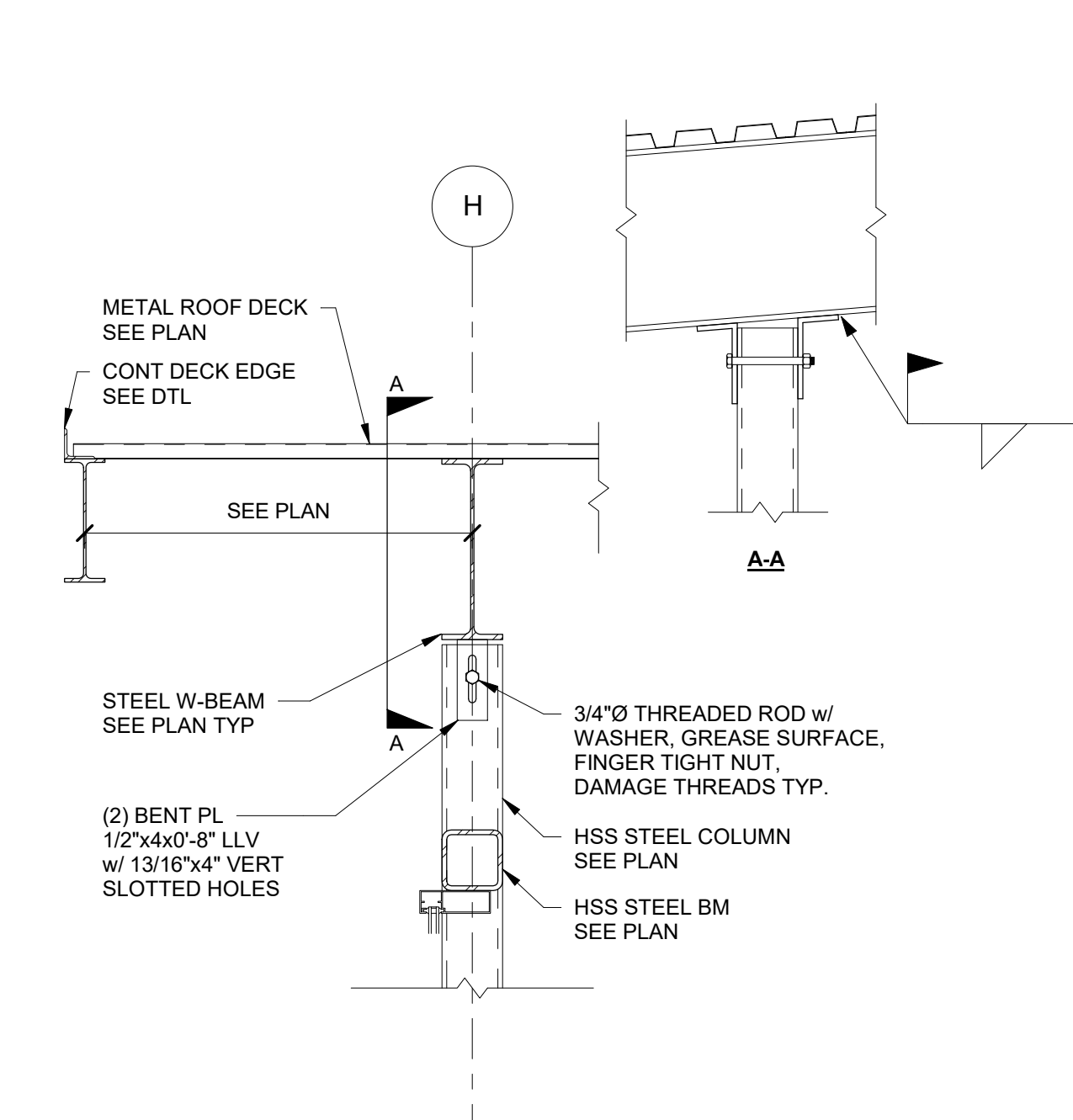
2 SECTION - ROOF FRAMING AT CANOPY
S701 3/4" = 1'-0"



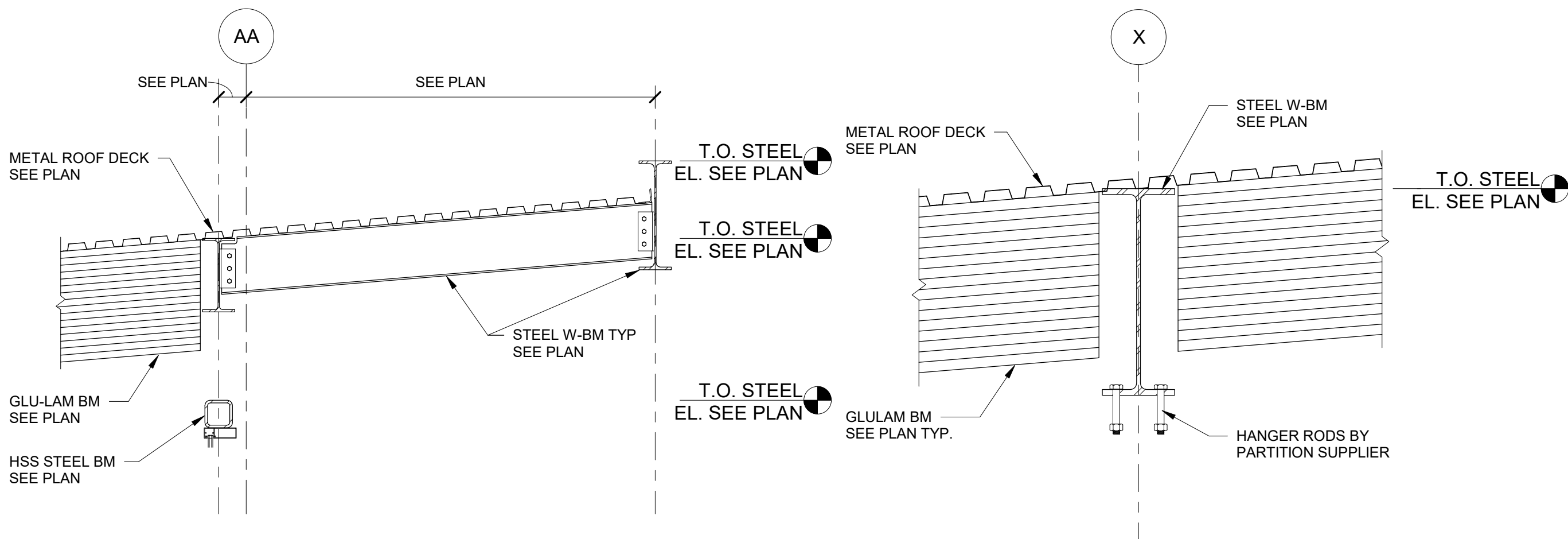
3 SECTION - ROOF FRAMING AT CANOPY
S701 3/4" = 1'-0"



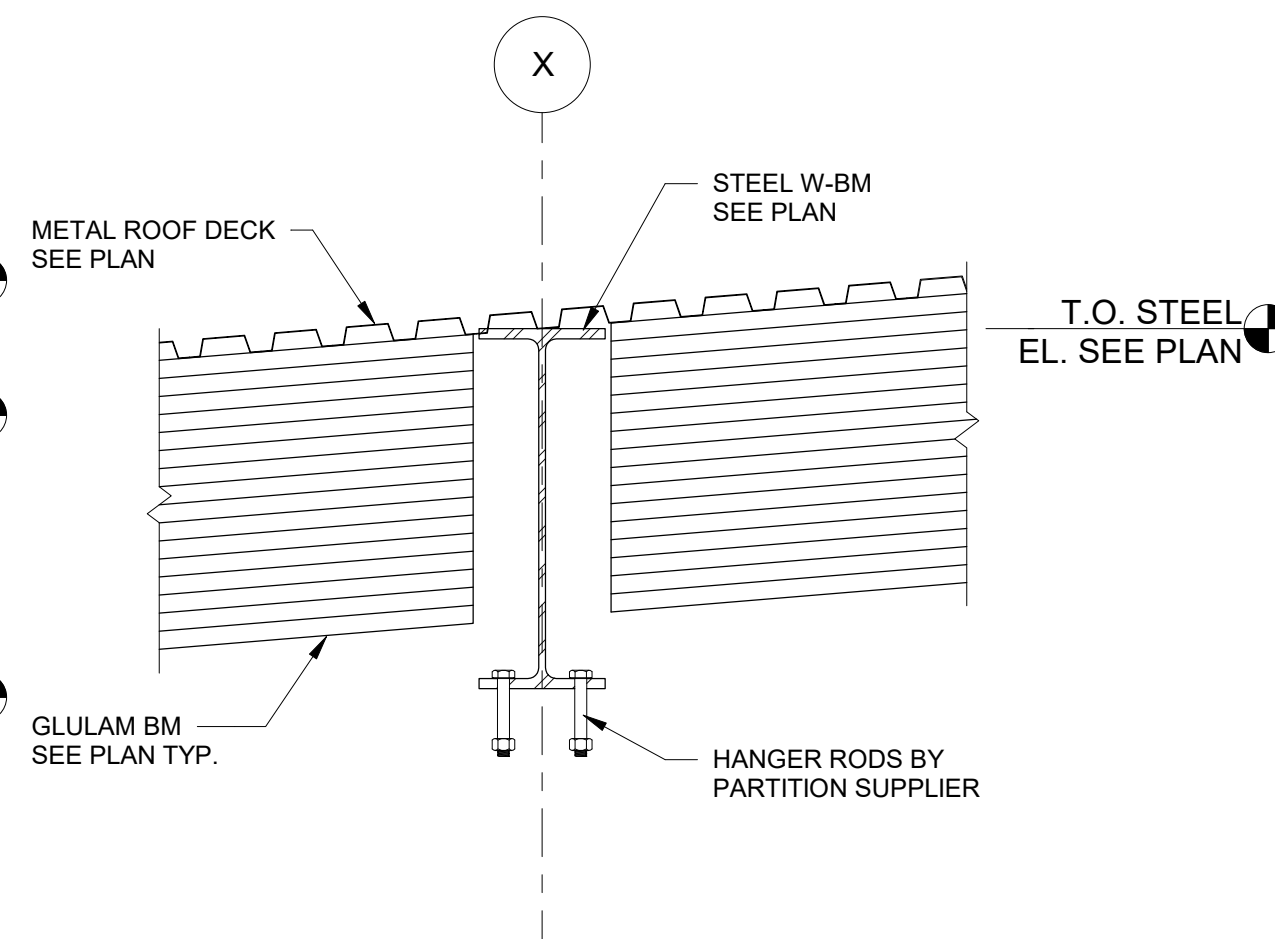
4 SECTION - ROOF FRAMING AT CANOPY
S701 3/4" = 1'-0"



5 SECTION - HIGH ROOF @ ROOF EDGE
S701 3/4" = 1'-0"



6 SECTION - HIGH ROOF @ STORE FRONT
S701 1/2" = 1'-0"



7 SECTION - STEEL BM @ MOVABLE PARTITION
S701 3/4" = 1'-0"



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Revisions		
No.	Date	Description

Project Information

Phase: 50% Date: 04/23/2021

Project No.: Project Number PIC / A/C:

90% Construction Set

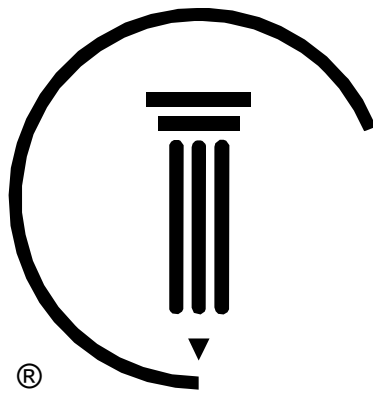
Sheet Title

FRAMING SECTIONS & DETAILS

Sheet Number Current Revision

S701

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GENERAL MECHANICAL NOTES	
1.	ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2.	THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
3.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4.	VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
5.	THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
6.	THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
7.	ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
8.	THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
9.	ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
10.	PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NOT LIMITED TO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPMENT SHALL STATE THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FOR THE PRIME CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD COVER BINDER. 0 & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL WALK THROUGH OF THE PROJECT.
11.	SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK. DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
12.	PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS. BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
13.	PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIIUS, WHERE SPACE PERMITS. PROVIDE RADIUSSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
14.	ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
15.	MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
16.	THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
17.	THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
18.	MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
19.	UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AND ENGINEER. ALL CHANGES IN PIPING AND DUCTWORK ARRANGEMENTS SHALL BE NOTED ON THE RECORD DRAWINGS.

MECHANICAL HVAC LEGEND	
	EXHAUST AIR DUCT (DOWN)
	EXHAUST AIR DUCT (UP)
	RETURN AIR DUCT (DOWN)
	RETURN AIR DUCT (UP)
	OUTSIDE OR SUPPLY AIR DUCT (UP)
	OUTSIDE OR SUPPLY AIR DUCT (DOWN)
	DUCT SIZE
	FLEX DUCT
	SUPPLY AIR CEILING DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	DIFFUSER, GRILLE, AND REGISTER CALL-OUTS
	CALL-OUT CFM
	CALL-OUT CFM
	MANUAL BALANCING DAMPER
	FIRE DAMPER (X=F)
	SMOKE DAMPER (X=S)
	FIRE/SMOKE DAMPER (X=FC)
	MOTORIZED DAMPER
	SCHEDULED EQUIPMENT TAG
	THERMOSTAT
	HUMIDISTAT
	REMOTE SENSOR
	CONTAMINANT DETECTOR
	NEW TO EXISTING

MECHANICAL PIPING LEGEND	
DOUBLE ELBOW DOWN	
ELBOW DOWN	
TEE	
ELBOW	
ELBOW DOWN TO TEE	
TYPICAL TEE CONNECTION (PLANS ONLY)	
WATER FLOW MEASURING DEVICE	
BALANCING VALVE	
CIRCUIT SETTER	
PRESSURE REDUCING VALVE	
BALL VALVE/SHUT-OFF VALVE	
SILENT CHECK VALVE	
GLOBE VALVE	
TWO-WAY VALVE	
THREE-WAY VALVE	
BUTTERFLY VALVE	
TRIPLE DUTY VALVE	
SHUT-OFF COCK	
STRAINER	
STRAINER WITH BLOWDOWN	
DRAIN VALVE	
DOUBLE ELBOW DOWN (AT CORNER)	
ELBOW UP	
TEE DOWN	
TEE UP	
END CAP	
REDUCER	
FLOW DIRECTION ARROW	
MANUAL AIR VENT (MAV)	
PRESSURE GAUGE	
UNION	
PRESSURE RELIEF VALVE	
PRESSURE/TEMPERATURE PORT	
PUMP OR PUMP	
FLEX CONNECTION	
THERMOMETER	
ANALOG INPUT	
ANALOG OUTPUT	
DIGITAL INPUT	
DIGITAL OUTPUT	

MECHANICAL SHEET INDEX	
M001	MECHANICAL NOTES, LEGENDS, & ABBREVIATIONS
M101	GEO THERMAL SITE PLAN
M201	FIRST FLOOR MECHANICAL DUCTWORK PLAN
M301	FIRST FLOOR MECHANICAL PIPING PLAN
M302	FIRST FLOOR RADIANT IN-FLOOR PIPING PLAN
M401	MECHANICAL ENLARGED VIEWS
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROL SCHEMATICS

ABBREVIATIONS			
A	AMP	IN	INCH
ADD	ADDENDUM	INSUL	INSULATION
ADJ	ADJUSTABLE	J-BOX	JUNCTION BOX
AFF	ABOVE FINISH FLOOR	LAT	LEAVING AIR TEMPERATURE
AFG	ABOVE FINISH GRADE	LB	POUND
AHJ	AIR HANDLER UNIT	LIT	LEAVING LIQUID TEMPERATURE
AI	ANALOG INPUT	LOC	LOCATION
ALT	ALTERNATE	LPR	LOW PRESSURE RETURN
ANNC	ANNUNCIATOR	LPS	LOW PRESSURE RETURN
AO	ANALOG OUTPUT	LPS	LOW PRESSURE RETURN
APPRX	APPROXIMATE	LV	LOW VOLTAGE
APU	AIR PURIFICATION UNIT	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECT, ARCHITECTURAL	MA	MAKE-UP AIR OR MIXED AIR
BDD	BACK DRAFT DAMPER	MAX	MAXIMUM
BLDG	BUILDING	MBH	1000 BTU PER HOUR
BI	BLACK IRON	MC	MECHANICAL CONTRACTOR
BOD	BOTTOM OF DUCTWORK	MCA	MINIMUM CIRCUIT AMPS
BOP	BOTTOM OF PIPE	MECH	MECHANICAL
BOT	BOTTOM	MN	MINIMUM
BSMT	BASEMENT	MFR	MANUFACTURER
BTUH	BRITISH THERMAL UNIT PER HOUR	NC	NURSE CALL
BTWN	BETWEEN	NFC	NOT FOR CONSTRUCTION
C	CENTER	NIC	NOT IN CONTRACT
CD	CEILING DIFFUSER	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CHAR	CHARACTERISTICS	OC	ON CENTER
CI	CAST IRON	OED	OPEN END DUCT
CIR	CIRCUIT	OPNG	OPENING
CL	CENTERLINE	OPP	OPPOSITE
CLR	CLEAR	P	PUMP
CO	CLEAN OUT	PC	PLUMBING CONTRACTOR
COL	COLUMN	PERP	PERPENDICULAR
COMP	COMPRESSOR	PLBS	PLUMBING
CONC	CONCRETE	PNL	PANEL
COND	CONDENSATE	PPH	POUNDS PER HOUR
CONT	CONTINUOUS	PRES	PRESSURE
COP	COEFFICIENT OF PERFORMANCE	PSF	POUNDS PER SQUARE FOOT
CR	CELLING REGISTER	PSI	POUNDS PER SQUARE INCH
CW	CHILLED/COLD WATER	PSIG	POUNDS PER SQUARE INCH GAUGE
CWR	COLD WATER RETURN	PWR	POWER
CWS	COLD WATER SUPPLY	QTY	QUANTITY
DB	DRY BULB	R	RADIUS
DEG	DEGREE	RA	RETURN AIR
DEPT	DEPARTMENT	RD	ROOF DRAIN
DET	DETAIL	REL	RELIEF
DF	DRINKING FOUNTAIN	REQD	REQUIRED
DG	DOOR GRILLE	REV	REVERSE OR REVISION
DI	DIGITAL INPUT	RG	RETURN AIR GRILLE
DIA OR Ø	DIAMETER	RPM	REVOLUTIONS PER MINUTE
DM	DIMENSION	RTU	ROOF TOP UNIT
DN	DOWN	SA	SUPPLY AIR
DO	DIGITAL OUTPUT	SAN	SANITARY
DW	DEIONIZED WATER	SCH	SCHEDULE
DWG	DRAWING	SECT	SECTION
EA	EXHAUST AIR	SEP	SEPARATOR
EAT	ENTERING AIR TEMPERATURE	SF	SQUARE FEET
EC	ELECTRICAL CONTRACTOR	SG	SUPPLY GRILLE
ECM	ELECTRONIC CONTROL MODULE	SHT	SHEET
EER	ENERGY EFFICIENCY RATIO	SHWR	SHOWER
EF	EXHAUST FAN	SNM	SIMILAR
EG	EXHAUST GRILLE	SP	STATIC PRESSURE
EL	ELEVATION	SPEC	SPECIFICATIONS
ELEC	ELECTRICAL	SQ	SQUARE
ELEV	ELEVATOR	SS	STAINLESS STEEL
ELT	ENTERING LIQUID TEMPERATURE	STM	STEAM
EQ	EQUAL	T&B	TEST AND BALANCE OR
EQUIP	EQUIPMENT	T&P	TEMPERATURE AND PRESSURE
ERU	ENERGY RECOVERY UNIT	TEMP	TEMPERATURE OR TEMPORARY
ESP	EXTERNAL STATIC PRESSURE	TG	TRANSFER GRILLE
EST	ESTIMATE OR ESTIMATED	TYP	TYPICAL
ET	DIAPHRAGM EXPANSION TANK	UNO	UNLESS NOTED OTHERWISE
ETR	EXISTING TO REMAIN	V	VOLT
EXT	ENTERING WATER TEMPERATURE	VAR	VARIABLE OR VARIES
EXIST	EXISTING	VEL	VELOCITY
F&T	FLOAT AND THERMOSTATIC	VERT	VERTICAL
FA	FRESH AIR	VFD	VARIABLE FREQUENCY DRIVE
FCO	FLOOR CLEANOUT	VOL	VOLUME
FD	FLOOR DRAIN	VS	VENT STACK
FLR	FLOOR	VTR	VENT THRU ROOF
FPM	FEET PER MINUTE	W	WITH
FT	FOOT (FEET)	WIN	WITHIN
FURN	FURNACE	W/O	WITH OUT
GA	GAUGE/GAGE	WB	WET BULB
GAL	GALLON	WC	WATER COLUMN (INCHES OF)
GALV	GALVANIZED	WCO	WALL CLEANOUT
GC	GENERAL CONTRACTOR	WG	WATER GAUGE
GPM	GALLONS PER MINUTE	WOG	WATER, OIL, GAS
GYP	GYPSUM	WP	WEATHER PROOF
HB	HOSE BIB	WP	WORKING PRESSURE
HORIZ	HORIZONTAL	WT	WEIGHT
HP	HORSEPOWER		
HT	HEIGHT		
HW	HOT WATER		
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
I/O	INPUT/OUTPUT		
IA	INSTRUMENT AIR		
IE	INVERT ELEVATION		

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Revisions		
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Project Information		
Phase: 90% CONSTRUCTION SET		
Project No.:	2020-61082	PIC / AIC:

WAKAN TIPI CENTER

Sheet Title
MECHANICAL NOTES, LEGENDS,
& ABBREVIATIONS

Sheet Number
M001

Current Revision

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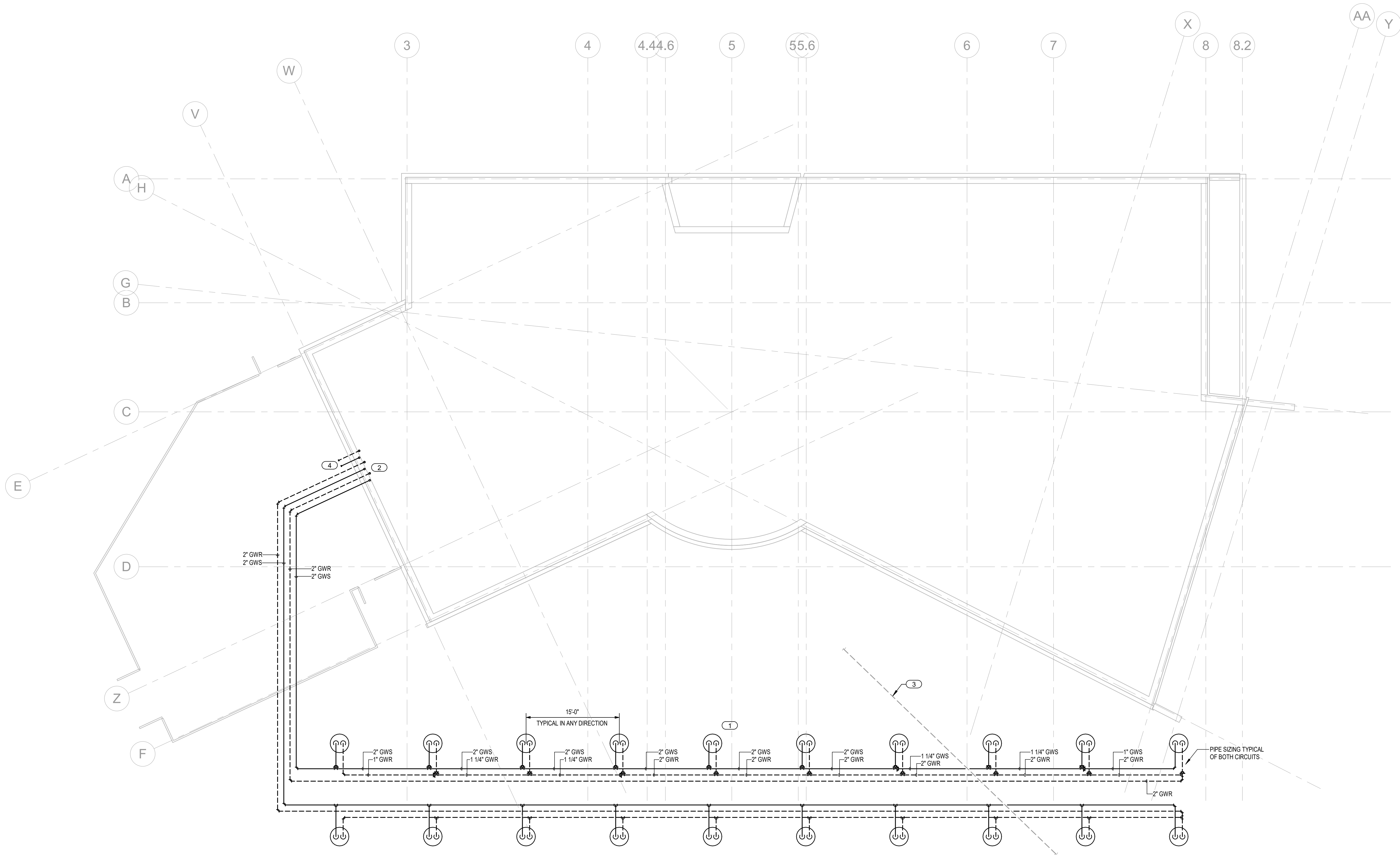


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GENERAL NOTES

- A. REFER TO M001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.
B. MAINTAIN 15'-0\"/>

KEYED NOTES

- 1 250' DEEP BORE REFER TO VERTICAL HEAT EXCHANGER DETAIL. 1\"/>

PRELIMINARY NOT FOR
CONSTRUCTION

Revisions

No.	Date	Description
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1 GEOTHERMAL SITE PLAN

1/8\"/>



Project Information

Phase: 90% CONSTRUCTION SET | Date: 2021 MAY 24
Project No.: 2020-61082 | PIC / A/C:

WAKAN TIPI CENTER

Sheet Title

GEOTHERMAL SITE PLAN

Sheet Number

M101

Current Revision

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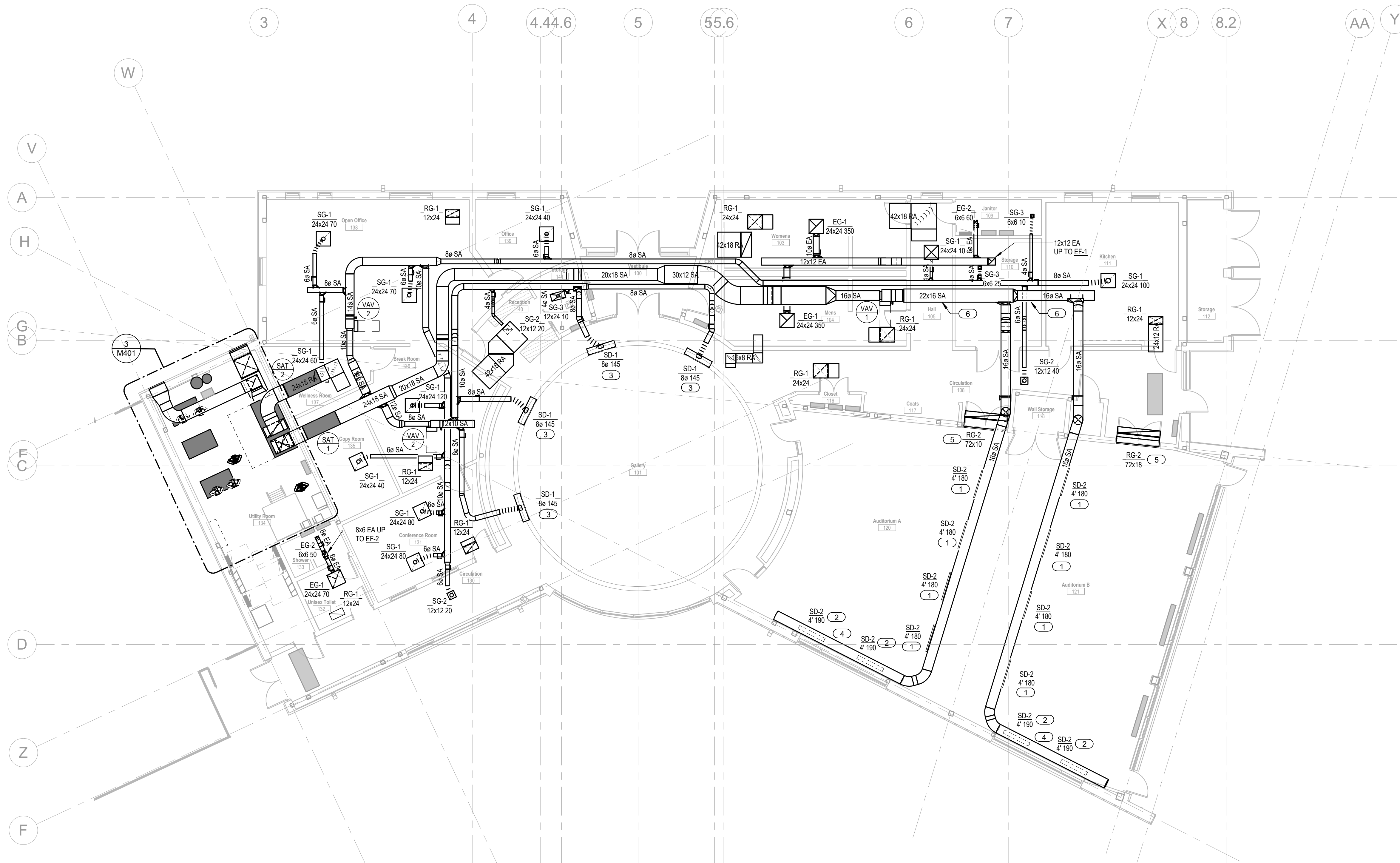


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GENERAL NOTES

A. REFER TO M001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.

KEYED NOTES

- | | |
|---|--|
| 1 | DUCT MOUNTED LINEAR DIFFUSER TO BE INSTALLED AT 45 DEGREE ANGLE DOWNWARDS FROM DUCT. |
| 2 | DUCT MOUNTED LINEAR DIFFUSER TO BE INSTALLED TO DIRECT AIRFLOW STRAIGHT DOWN. |
| 3 | SUPPLY DIFFUSERS IN GALLERY 101 SHALL BE EQUALLY SPACED APART AS SHOWN. DIFFUSERS ARE TO BE CURVED TO MATCH WALL CURVE. REFER TO DIFFUSER SCHEDULE. |
| 4 | CONTRACTOR SHALL SLOPE SUPPLY DUCT ALONG WINDOW TO MATCH SLOPE OF CEILING. |
| 5 | RETURN AIR GRILLE TO BE CENTERED ABOVE DOORWAY. BOTTOM OF GRILLE TO BE AT 10'-0" A.F.F. 72"x18" DUCT TO ELBOW UP AND BE OPEN TO PLENUM SPACE ABOVE CORRIDOR. |
| 6 | DUCTWORK DOWNSTREAM OF VAV-1 TO BE LINED UP UNTIL ENTRANCE INTO AUDITORIUM SPACE. REFER TO SPECIFICATIONS FOR LINING REQUIREMENTS. |

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CONSTRUCTION

Revisions

No.	Date	Description
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1 FIRST FLOOR MECHANICAL DUCTWORK PLAN

1/8" = 1'-0"



Project Information

Phase: 90% CONSTRUCTION SET	Date: 2021 MAY 24
Project No.: 2020-61082	PIC / AIC:

WAKAN TIPI CENTER

Sheet Title

FIRST FLOOR MECHANICAL
DUCTWORK PLAN

Sheet Number

Current Revision

M201

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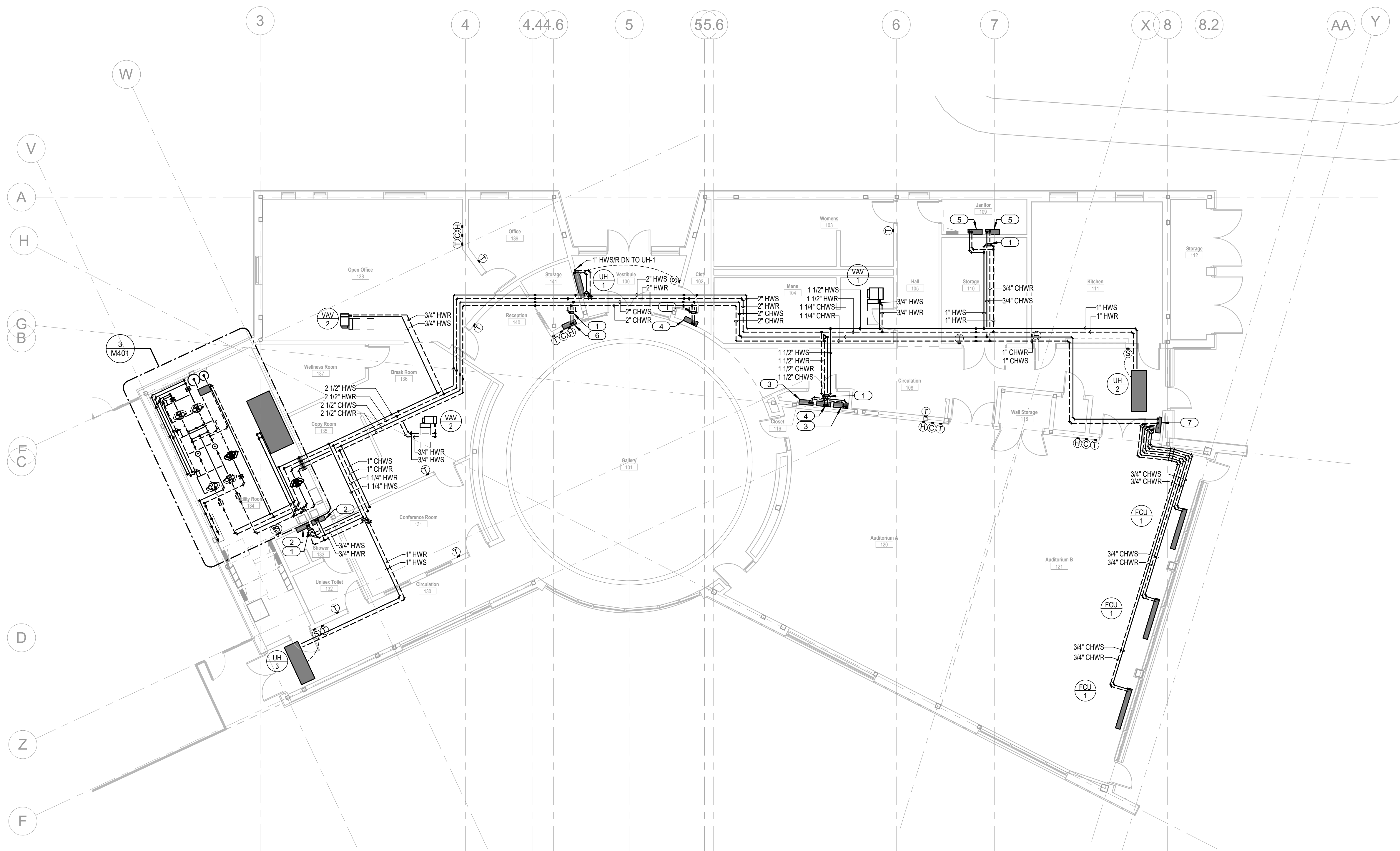


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GENERAL NOTES

A. REFER TO M001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.

KEYED NOTES

1	6-WAY VALVE.
2	3/4" SUPPLY AND RETURN PIPING DOWN TO RADIANT MANIFOLD. MANIFOLD LOCATED IN WALL AND TO BE PROVIDED WITH FLUSH MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER. REFER TO M302 FOR IN-FLOOR RADIANT PIPING.
3	1" SUPPLY AND RETURN PIPING DOWN TO RADIANT MANIFOLD. MANIFOLD TO BE PROVIDED WITH SURFACE MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER. REFER TO M302 FOR IN-FLOOR RADIANT PIPING.
4	1-1/4" SUPPLY AND RETURN PIPING DOWN TO RADIANT MANIFOLD. MANIFOLD TO BE PROVIDED WITH SURFACE MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER. REFER TO M302 FOR IN-FLOOR RADIANT PIPING.
5	3/4" SUPPLY AND RETURN PIPING DOWN TO RADIANT MANIFOLD. MANIFOLD TO BE PROVIDED WITH SURFACE MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER. REFER TO M302 FOR IN-FLOOR RADIANT PIPING.
6	1" SUPPLY AND RETURN PIPING DOWN TO RADIANT MANIFOLD. MANIFOLD LOCATED IN WALL AND TO BE PROVIDED WITH FLUSH MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER. REFER TO M302 FOR IN-FLOOR RADIANT PIPING.
7	1" SUPPLY AND RETURN PIPING DOWN TO MANIFOLD SERVING FAN COIL UNITS. MANIFOLD LOCATED IN WALL AND TO BE PROVIDED WITH FLUSH MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER.

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No.	Date	Description
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Project Information

Phase: 90% CONSTRUCTION SET	Date:	2021 MAY 24
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WAKAN TIPI CENTER

Sheet Title

FIRST FLOOR MECHANICAL
PIPING PLAN

Sheet Number

M301

Current Revision

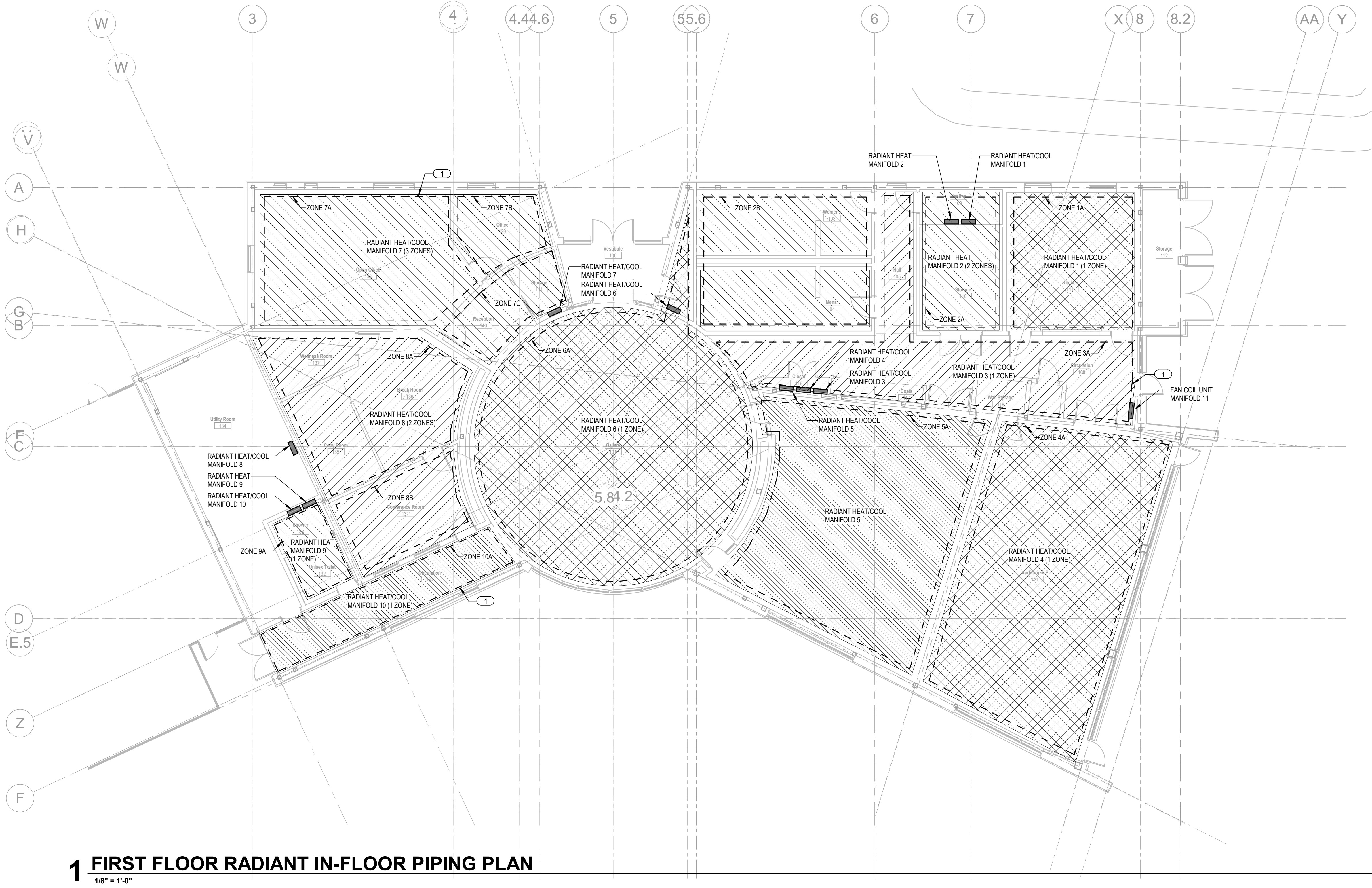
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1 FIRST FLOOR MECHANICAL PIPING PLAN - OVERALL

1/8" = 1'-0"



MANIFOLD SCHEDULE															
MANIFOLD NAME	# ZONES	# CIRCUITS	FLOW (GPM)	HEAD LOSS CIRCUITS (FT HD)	HEAD LOSS TOTAL (FT HD)	HEATING			COOLING			MANIFOLD TYPE	CONTROL TYPE	# ACTUATORS	NOTES
						SUPPLY TEMP (F)	DELTA T (F)	CAPACITY (MBH)	SUPPLY TEMP (F)	DELTA T (F)	CAPACITY (MBH)				
MANIFOLD 1	1	3	2.48	4.5	5.1	112	15	17204	58	4	4691	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 2	2	6	1.80	0.6	0.8	102	20	17046	-	-	-	PRO-BALANCE 1" ST	CIRCUIT	6	1-3
MANIFOLD 3	1	5	4.64	6.0	7.1	112	15	31807	58	4	8779	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 4	1	10	7.88	5.0	7.1	112	15	59020	58	4	14923	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 5	1	6	6.19	7.0	8.6	112	15	42921	58	4	11721	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 6	1	11	10.95	6.5	10.4	112	15	74598	58	4	20727	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 7	3	7	5.61	6.3	7.5	112	15	38753	58	4	10613	PRO-BALANCE 1" ST	CIRCUIT	7	1-3
MANIFOLD 8	2	6	4.45	5.6	6.5	112	15	30340	58	4	8425	PRO-BALANCE 1" ST	CIRCUIT	6	1-3
MANIFOLD 9	1	1	0.34	0.7	0.8	102	20	3206	-	-	-	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 10	1	2	1.85	6.3	7.0	112	15	13384	58	4	3496	PRO-BALANCE 1" ST	MANIFOLD	0	1-3
MANIFOLD 11	1	3	3.00			-	-	-	-	-	-	PRO-BALANCE 1" ST			1,2,4
TOTAL	15	60	49.2	7.0	10.4			-	-	-	-	-	-	19	-
NOTES: 1. TOTAL HEAD LOSS INCLUDES MANIFOLD, CIRCUITS, AND SUPPLY/RETURN PIPING. 2. LOAD AT MAXIMUM CAPACITY INCLUDES BACK LOSS. 3. ALL PIPING IS 5/8" TUBING, 6" O.C. 4. MANIFOLD SERVES PIPING OUT TO FAN COIL UNITS.															



GENERAL NOTES	
A. REFER TO M001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.	
KEYED NOTES	
1	DASHED BORDER INDICATES INDIVIDUAL ZONE (TYP.). REFER TO MECHANICAL PIPING PLAN FOR THERMOSTAT LOCATIONS.

1 FIRST FLOOR RADIANT IN-FLOOR PIPING PLAN
1/8" = 1'-0"



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Phase: 90% CONSTRUCTION SET	Date: 2021 MAY 24
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WAKAN TIPI CENTER

Sheet Title	
FIRST FLOOR RADIANT IN-FLOOR PIPING PLAN	
Sheet Number	Current Revision
M302	



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A. REFER TO M001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.
B. REFER TO FLOW SCHEMATIC FOR ADDITIONAL PIPE SIZES.

1	1" SUPPLY AND RETURN PIPING DOWN TO RADIANT MANIFOLD. MANIFOLD TO BE PROVIDED WITH SURFACE MOUNT, PROTECTIVE CABINET WITH REMOVABLE COVER FURNISHED BY MANIFOLD MANUFACTURER. REFER TO M302 FOR IN-FLOOR RADIANT PIPING.
2	2-1/2" CHWS PIPING OVER 2" HWS PIPING OUT TO ERV. 2-1/2" CHWR PIPING OVER 2" HWR PIPING FROM ERV.
3	REFER TO FLOW SCHEMATIC FOR ADDITIONAL PIPE SIZES.



Revisions

No.	Date	Description
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Project Information

Phase: 90% CONSTRUCTION SET	Date:	2021 MAY 24
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WAKAN TIPI CENTER

Sheet Title
MECHANICAL ENLARGED VIEWS

Sheet Number Current Revision

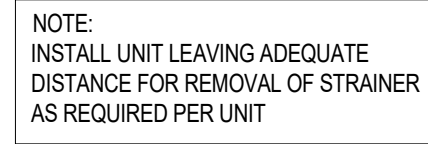
M401

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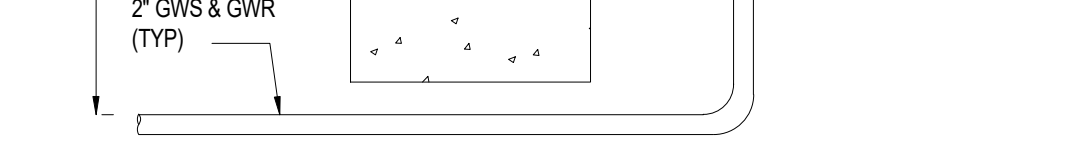
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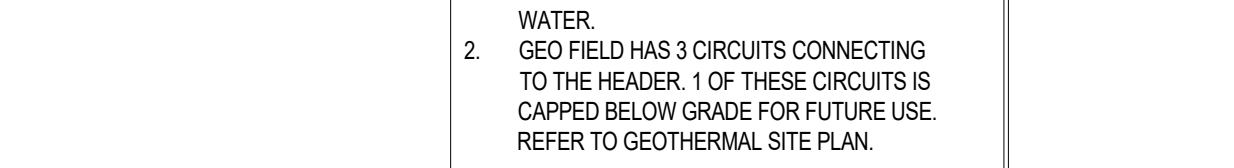
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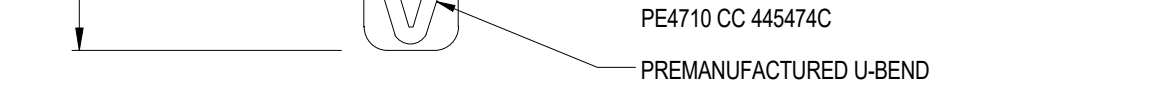
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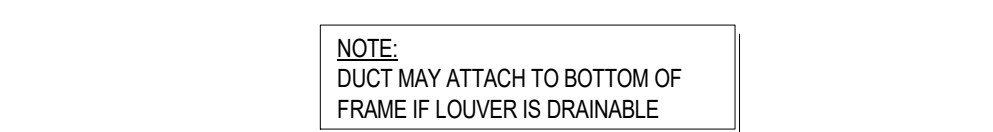
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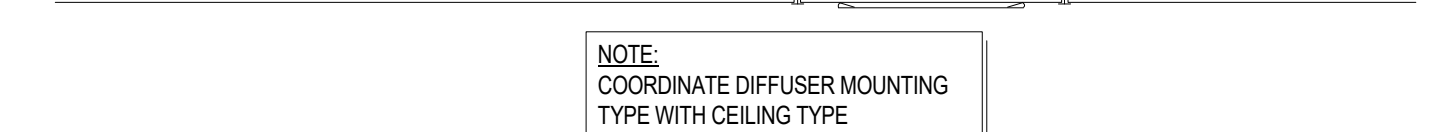
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11 TWO-WAY, PRESSURE-INDEPENDENT



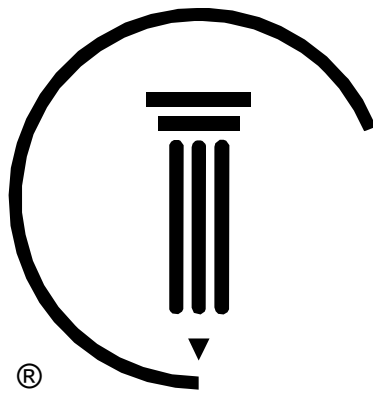
10 TWO-WAY, PRESSURE-INDEPENDENT



9 TWO-WAY, PRESSURE-INDEPENDENT

Phase: 90% CONSTRUCTION SET Date: 2021 MAY 2

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WAKAN TIPI CENTER

Sheet Title
MECHANICAL SCHEDULES

Sheet Number Current Revision

M601

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WATER TO WATER HEAT PUMP SCHEDULE

TAG	LOCATION	FLUID FLOW					COOLING				HEATING				ELECTRICAL		EQUIPMENT			MANUFACTURER	MODEL	NOTES
		SOURCE GPM	SOURCE PD (FT. HD)	LOAD GPM	LOAD PD (FT. HD)	HE TYPE	CLG SOURCE EWT (°F)	CLG LOAD EWT (°F)	CLG CAP (MBH)	EER	HTG SOURCE EWT (°F)	HTG LOAD EWT (°F)	HTG CAP (MBH)	COP	VOLTS	PHASE	COMPRESSOR TYPE	STAGES	WEIGHT			
HP-1	UTILITY ROOM 134	14	18	16	4	COAXIAL	59	54	105	20.3	33	100	100	3.3	460	3	SCROLL	2	726	CLIMATEMASTER	TMW-120	ALL NOTES APPLY
HP-2	UTILITY ROOM 134	14	18	16	4	COAXIAL	59	54	105	20.3	33	100	100	3.3	460	3	SCROLL	2	726	CLIMATEMASTER	TMW-120	ALL NOTES APPLY
HP-3	UTILITY ROOM 134	14	18	16	4	COAXIAL	59	54	105	20.3	33	100	100	3.3	460	3	SCROLL	2	726	CLIMATEMASTER	TMW-120	ALL NOTES APPLY

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. HEAT PUMP MUST BE CERTIFIED WITH AHRI/ISO 13256-2 GROUND LOOP PERFORMANCE.
3. HEAT PUMP RATED AND DESIGNED FOR EXTENDED RANGE GEOTHERMAL OPERATION INCLUDING INSULATION OF PIPING AND HEAT EXCHANGERS.
4. COMPRESSOR SOFT START KITS FACTORY INSTALLED.
5. STAINLESS STEEL HOSE KIT CONNECTIONS FOR BOTH LOAD AND SOURCE REQUIRE 20-40 MESH SCREENS IN Y-STRAINER.
6. UNIT IS TO BE MOUNTED ON 4" HOUSEKEEPING PAD. CONTRACTOR SHALL COORDINATE FINAL SIZE WITH UNIT SELECTION.

SOUND ATTENUATOR SCHEDULE

TAG	LOCATION	SERVES	TYPE	CFM	FACE VELOCITY (FPM)	DYNAMIC INSERTION LOSS (HZ)								PD INCL. SYS. EFFECT (IN. W.C.)	LENGTH (IN.)	DIMMENSIONS (W x H) (IN.)	MANUFACTURER	MODEL	NOTES
						63	125	250	500	1000	2000	4000	8000						
SAT-1	WELLNESS 137	SUPPLY DUCTWORK		3000													VIBRO ACOUSTICS		ALL NOTES APPLY
SAT-2	COPY ROOM 135	RETURN DUCTWORK		3000													VIBRO ACOUSTICS		ALL NOTES APPLY

NOTES:
1. SOUND ABSORBING MATERIAL SHALL BE STANDARD DENSITY ACOUSTIC FIBERGLASS MEDIA WITH FIBERGLASS CLOTH MEDIA PROTECTION.

VAV TERMINAL SCHEDULE

TAG	LOCATION	SERVES	COOLING		INLET SIZE (IN)	MAX. PRESSURE DROP (IN. W.G.)	MAX DISCH./RAD. NC	ELEC. CHAR. (V/HP)	REHEAT COIL AIR SIDE							MANUFACTURER & MODEL NO.	NOTES
			MAX. CFM	MIN. CFM					MBH	CFM	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)		
VAV-1	RR 104	AUDITORIUM A 120, B 121	2,200	660	16	0.5	17	120/1	14	2,200	69	75	110	100	3	TITUS DESV 16	ALL NOTES APPLY
VAV-2	BREAKROOM 136	GALLERY 101	580	165	8	0.5	20	120/1	4	580	69	75	110	102	1	TITUS DESV 08	1, 3
VAV-3	OPEN OFFICE 138	105, 108-111, 130, 131, 135-141	795	240	10	0.5	20	120/1	6	100	69	75	110	104	2	TITUS DESV 10	1, 3

NOTES:
1. REFER TO DETAIL.
2. VAV-T SHALL BE PROVIDED WITH CONTROLLER SEQUENCED TO DRIVE TO MAXIMUM CFM IN EVENT OF HIGH CO2 LEVEL IN SPACE. CO2 DETECTOR AND ALL RELATED CONTROLS BY MECHANICAL CONTRACTOR.
3. VAV COIL IS SELECTED AT 25% PROPYLENE GLYCOL.

HOT WATER UNIT HEATER SCHEDULE

			HOT WATER HEATING COIL							FAN		ELECTRICAL				DIMENSIONS					
TAG	LOCATION	TYPE	MBH	EAT (°F)	LAT (°F)	NO. OF ROWS	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX. W.P.D. (FT. HD)	CFM	HP	VOLT	PHASE	DISCONNECT BY	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	MANUFACTURER	MODEL	NOTES
UH-1	VESTIBULE 100	RECESSED WALL	24	70	97	3	5	110	100	8	830	1/8 & 1/4	115	1	MFGR	24	46	10	DAIKIN	FHVH108	ALL NOTES APPLY
UH-2	CIRCULATION 108	RECESSED CEILING	27	70	99	3	5.5	110	100	12	850	1/4	115	1	MFGR	14	70	25	DAIKIN	FHHR208	ALL NOTES APPLY
UH-3	CIRCULATION 130	RECESSED CEILING	27	70	99	3	5.5	110	100	12	850	1/4	115	1	MFGR	14	70	25	DAIKIN	FHHR208	ALL NOTES APPLY
UH-4	UTILITY ROOM 134	HORIZONTAL	12	60	76	-	2.5	110	100	1	730	FRAC	115	1	MFGR	19	20	12	RITTLING	RH-47	ALL NOTES APPLY

NOTES:

- 1. UNIT HEATER IS SELECTED WITH 25% PROPYLENE GLYCOL.
- 2. PROVIDE LOCAL THERMOSTAT. ALL CONTROLS WORK IS BY MECHANICAL CONTRACTOR.
- 3. COLOR SELECTION IS BY ARCHITECT.

FAN SCHEDULE

			FAN DATA						ELECTRICAL						
TAG	LOCATION	SYSTEM	TYPE	CFM	RPM	DRIVE	E.S.P. (IN. W.C.)	MOTORIZED DAMPER	VOLT/PHASE	MOTOR HP	BY	WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES	
EF-1	ROOF	RESTROOM EXHAUST	CENTRIFUGAL	760	1470	DIRECT	0.6	YES	115/1	1/4	ELEC	38	GREENHECK G-999-VG	ALL NOTES APPLY	
EF-2	ROOF	RESTROOM EXHAUST	CENTRIFUGAL	120	1179	DIRECT	0.5	YES	115/1	1/4	ELEC	38	GREENHECK G-997-VG	1, 2	

NOTES:

1. UNIT IS STANDARD FROM FACTORY WITH VARIABLE-SPEED EC MOTOR WITH DIAL ADJUSTMENT FOR BALANCING.

EXPANSION TANK SCHEDULE

TAG	SYSTEM	TYPE	SIZE		CAPACITY		PRE-CHARGED (PSIG)	CONNECTION (IN.)	WET WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
			HEIGHT (IN.)	DIAMETER (IN.)	ACTUAL ACCEPT. VOLUME (GAL)	REQ. ACCEPT. VOLUME (GAL)					
ET-1	BUILDING HEATING	BLADDER	39	20	27	15	12	1	500	BELL AND GOSSETT B-16SLA	ALL NOTES APPLY
ET-2	BUILDING COOLING	BLADDER	35	16	11	6.5	12	1	270	BELL AND GOSSETT B-8SLA	ALL NOTES APPLY

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PUMP SCHEDULE

TAG	LOCATION	SERVES	PUMP TYPE	DESIGN FLOW (GPM)	DESIGN HEAD (FT. HD)	FLUID	MOTOR		MANUFACTURER & MODEL	NOTES
							HP	VOLT/PHASE		
P-1	UTILITY ROOM 134	GEOTHERMAL LOOP	TWIN HEAD IN-LINE	50	30	25% PG	1	460/3	GRUNDFOS TPE3 D 65-120	ALL NOTES APPLY
P-2	UTILITY ROOM 134	HP HEATING LOOP	TWIN HEAD IN-LINE	48	45	25% PG	2	460/3	GRUNDFOS TPE3 D 80-150	ALL NOTES APPLY
P-3	UTILITY ROOM 134	HP COOLING LOOP	TWIN HEAD IN-LINE	48	45	25% PG	2	460/3	GRUNDFOS TPE3 D 80-150	ALL NOTES APPLY
P-4	UTILITY ROOM 134	BUILDING HEATING LOOP	TWIN HEAD IN-LINE	100	40	25% PG	2	460/3	GRUNDFOS TPE3 D 80-150	ALL NOTES APPLY
P-5	UTILITY ROOM 134	BUILDING COOLING LOOP	TWIN HEAD IN-LINE	95	50	25% PG	3	460/3	GRUNDFOS TPE3 D 80-180	ALL NOTES APPLY
P-6	UTILITY ROOM 134	HIGH TEMP CHILLED WATER LOOP	TWIN HEAD IN-LINE	50	25	25% PG	1	460/3	GRUNDFOS TPE3 D 65-120	ALL NOTES APPLY

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PUMP IS SELECTED WITH 25% PROPYLENE GLYCOL.
3. PUMP INDICATED HAS DUAL ECM MOTOR WITH THE ABILITY TO ALLOW LEAD/LAG OPERATION.
4. PUMP SHALL BE SENSORLESS WITH EC MOTOR.

FAN COIL UNIT SCHEDULE

TAG	SERVES	FAN		ELECTRICAL	COOLING COIL							MANUFACTURER	MODEL	NOTES
		CFM	HP		EAT (°F)	EWT (°F)	LWT (°F)	TOTAL MBH	SENSIBLE MBH	GPM	W.P.D. (FT. HD)			
FCU-1	AUDITORIUM B 121	115	FRAC	24V, DC	80	60	65	1,463	1,463	0.6	1.9	JAGA	CLIMA CANAL 10	ALL NOTES APPLY

NOTES:
1. DISCONNECT BY ELECTRICAL.
2. SCHEDULE DATA IS AT 80% FAN SPEED.
3. GRILLE SELECTION BY ARCHITECT.
4. CONTRACTOR TO PROVIDE EMPTY TRENCH WITH MATCHING GRILLE FOR CONTINUOUS LOOK IN AREAS INDICATED ON PLAN.
5. ALL THREE FAN COILS WILL BE PROVIDED BY A 120V POWER SUPPLY. MECHANICAL CONTRACTOR SHALL RUN WIRING FROM POWER SUPPLY TO FAN COIL UNITS.
6. FAN COIL IS SELECTED AT 25% PROPYLENE GLYCOL.

AIR HANDLING UNIT WITH ENERGY RECOVERY WHEEL

TAG	LOCATION	SERVES	TYPE	CFM	FACE VELOCITY (FPM)	DYNAMIC INSERTION LOSS (HZ)								PD INCL. SYS. EFFECT (IN. W.C.)	LENGTH (IN.)	DIMMENSIONS (W x H) (IN.)	MANUFACTURER	MODEL	NOTES
						63	125	250	500	1000	2000	4000	8000						
SAT-1	WELLNESS 137	SUPPLY DUCTWORK		3000													VIBRO ACOUSTICS		ALL NOTES APPLY
SAT-2	COPY ROOM 135	RETURN DUCTWORK		3000													VIBRO ACOUSTICS		ALL NOTES APPLY

NOTES:
1. SOUND ABSORBING MATERIAL SHALL BE STANDARD DENSITY ACOUSTIC FIBERGLASS MEDIA WITH FIBERGLASS CLOTH MEDIA PROTECTION.

LOUVER SCHEDULE

TAG	SERVES	SIZE WxH (IN.)	MATERIAL	FINISH	MANUFACTURER & MODEL	NOTES
L-1	ERV-1 EXHAUST	28x34	ALUMINUM	BY ARCH	GREENHECK ESD-635	ALL NOTES APPLY
L-2	ERV-1 INTAKE	32x34	ALUMINUM	BY ARCH	GREENHECK ESD-635	ALL NOTES APPLY

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PAINT COLOR SELECTION BY ARCHITECT.
3. PROVIDE BIRD SCREEN FROM MANUFACTURER.
4. REFER TO DETAIL FOR MORE INFORMATION.

LOW LOSS HEADER SCHEDULE

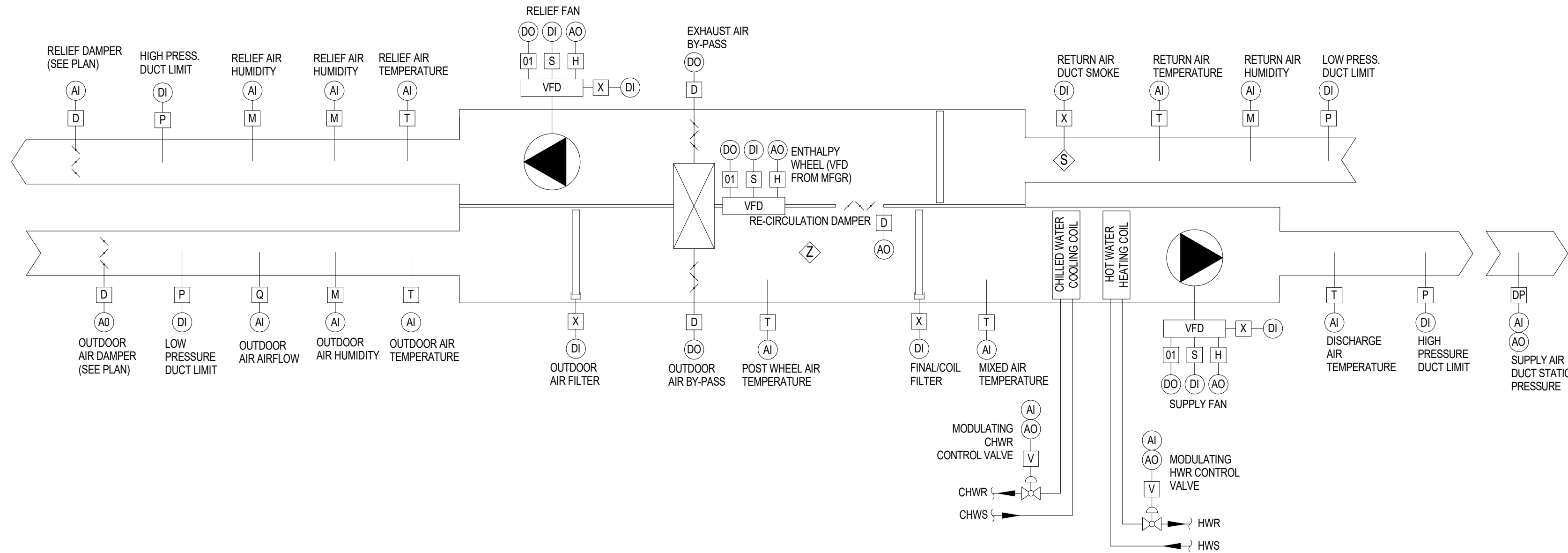
TAG	LOCATION	SYSTEM	TYPE	GPM (DESIGN MAXIMUM)	PRESSURE DROP (AT DESIGN MAXIMUM FLOW)	CONNECTION SIZE (IN)	MANUFACTURER & MODEL	NOTES
LLH-1	UTILITY ROOM 134	BUILDING HEATING SYSTEM	COALESCING	100	1	3	SPIROTHERM VXN300	ALL NOTES APPLY
LLH-2	UTILITY ROOM 134	BUILDING COOLING SYSTEM	COALESCING	100	1	3	SPIROTHERM VXN300	ALL NOTES APPLY

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. UNIT IS COMBINATION OF AIR ELIMINATOR, DIRT SEPARATOR, AND LOW LOSS HEADER.
3. PROVIDE PIPE REDUCER AS NECESSARY. REFER TO PLAN FOR PIPE SIZING AT LOCATION OF SEPARATOR.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

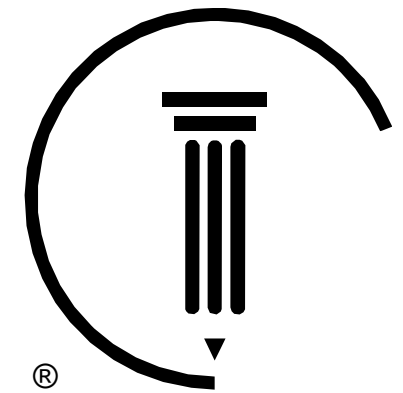
TAG	DESCRIPTION	MANUFACTURER & MODEL	MATERIAL	FINISH	NOTES
SG-1	24x24 SQUARE FACE, ROUND NECK, 4-WAY THROW CEILING DIFFUSER FOR LAY IN CEILING INSTALLATION.	TITUS OMNI	STEEL	BY ARCH	1-3
SG-2	12x12 SQUARE FACE, ROUND NECK, 4-WAY THROW CEILING DIFFUSER FOR LAY IN CEILING INSTALLATION.	TITUS OMNI	STEEL	BY ARCH	1-3
SG-3	ADJUSTABLE SINGLE DEFLECTION LOUVERS, 3/4" SPACING	TITUS 301FL	ALUMINUM	BY ARCH	2,3
SD-1	4" LINEAR SLOT DIFFUSER, 2 SLOT, 1" SPACING, 8" INLET.	PRICE CFC	ALUMINUM	BY ARCH	2,5
SD-2	4" LINEAR SLOT DIFFUSER, 3 SLOT, 1" SLOT SPACING, BORDER TYPE 16 FOR ROUND DUCT MOUNTING	PRICE SDS	ALUMINUM	BY ARCH	2
RG-1	SQUARE PATTERN, FLAT FRAME FOR LAY IN CEILING INSTALLATION	TITUS 50F	ALUMINUM	BY ARCH	2,3
RG-2	3/4" BLADE SPACING, 35 DEG DEFLECTION	TITUS 350FL	ALUMINUM	BY ARCH	2
EG-1	SQUARE PATTERN, FLAT FRAME FOR LAY IN CEILING INSTALLATION	TITUS 50F	ALUMINUM	BY ARCH	2,3
EG-2	3/4" BLADE SPACING, 35 DEG DEFLECTION	TITUS 350RL	STEEL	BY ARCH	2,3

NOTES:
1. NECK SIZE TO MATCH ROUND DUCT SIZE UNLESS OTHERWISE NOTED.
2. PAINT COLOR SELECTION BY ARCHITECT.
3. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE. COORDINATE FRAMING REQUIREMENTS.
4. PROVIDE WITH MANUFACTURER PROVIDED INSULATED PLENUM BOX.
5. DIFFUSER IS TO BE CURVED TO MATCH ARCHITECTURAL WALL CURVE. DIFFUSER IS TO BE PROVIDED WITH CUSTOM FACTORY BUILT CURVED PLENUM BOX.



1 AHU-1 WITH ENERGY RECOVERY WHEEL
NOT TO SCALE

SYMBOLOLOGY		
DIAGRAM SYMBOLOLOGY		
BAS INPUTS/OUTPUTS		
(A) ANALOG INPUT	FREEZE STAT	MOTORIZED DAMPER
(AO) ANALOG OUTPUT	SMOKE DETECTOR	SMOKE DAMPER
(D) DIGITAL INPUT		
(DO) DIGITAL OUTPUT		
(MD) DAMPER POSITION	(E) ENTHALPY SENSOR	(H) VFD HERTZ / SPEED MONITOR
(V) VALVE POSITION	(Q) FLOW MEASUREMENT	(S) CURRENT STATUS MONITOR
(DP) DIFF. PRESSURE	(O) OCCUPANCY SENSOR	(DI) START / STOP
(P) PRESSURE	(T) TEMP. SENSOR	(F) FLOW SWITCH
(M) MOISTURE (%RH)	(R) RHEOSTAT	(X) FAULT / ALARM / SAFETY
(ES) END SWITCH		
FANPUMP	2-WAY VALVE	VARIABLE FREQUENCY DRIVE
FLOW METER	3-WAY VALVE	
	2-WAY CONTROL VALVE	

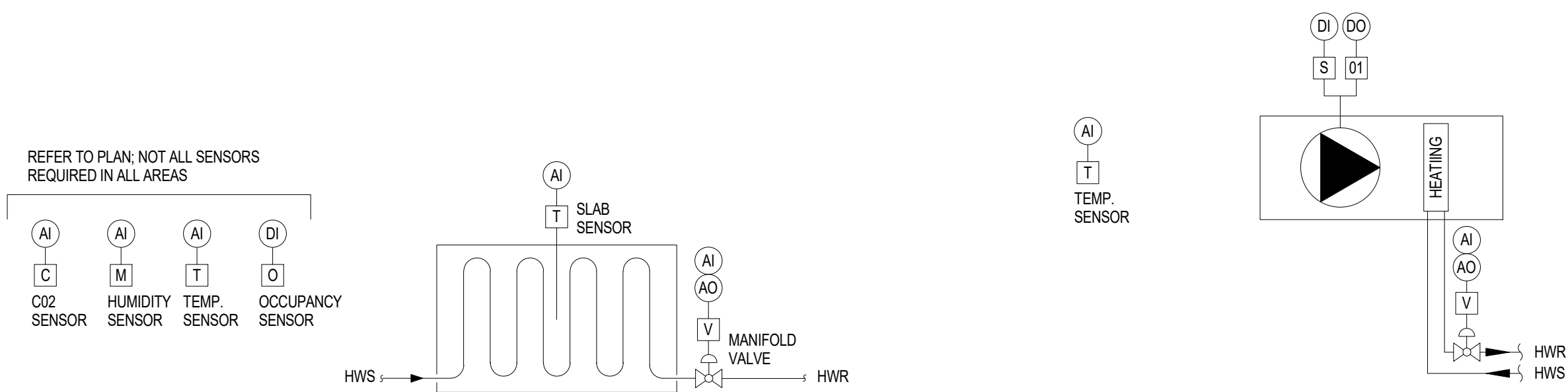


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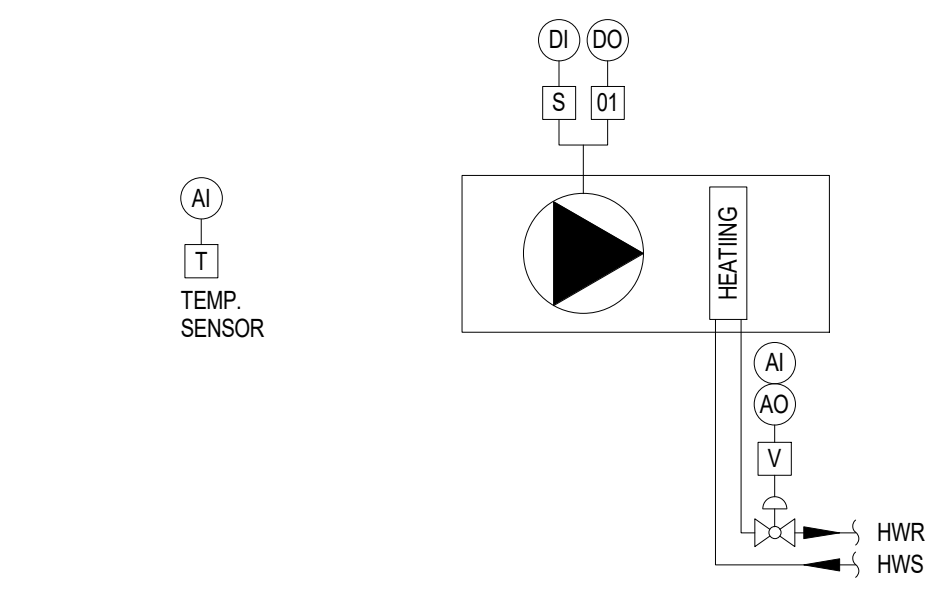
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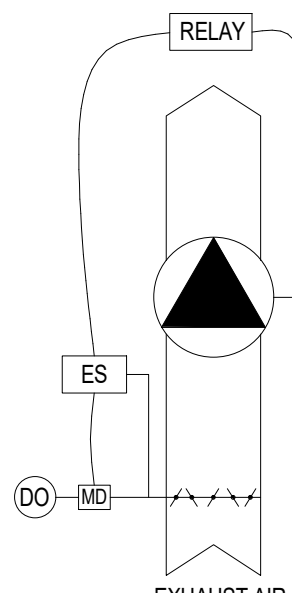
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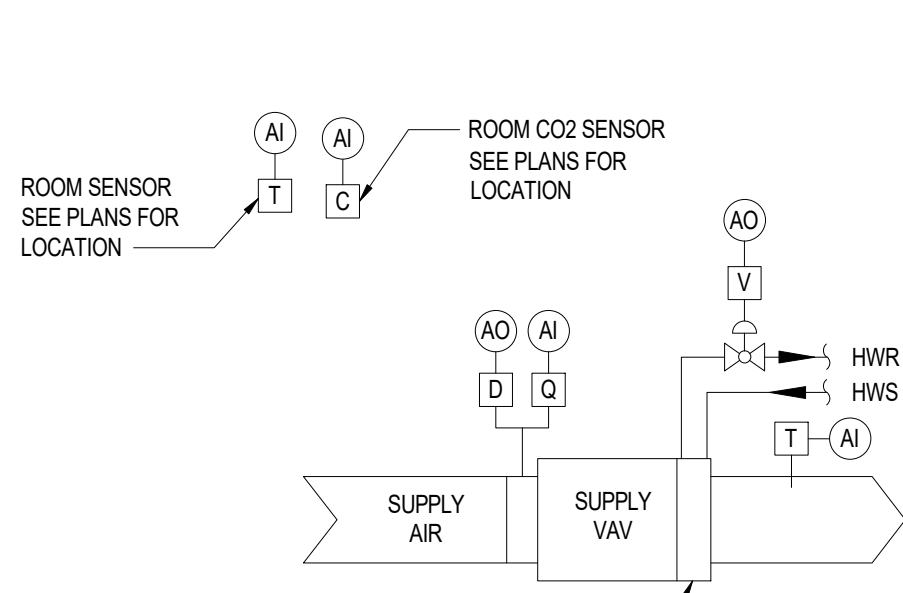
5 IN FLOOR RADIATION CONTROL DIAGRAM
NOT TO SCALE



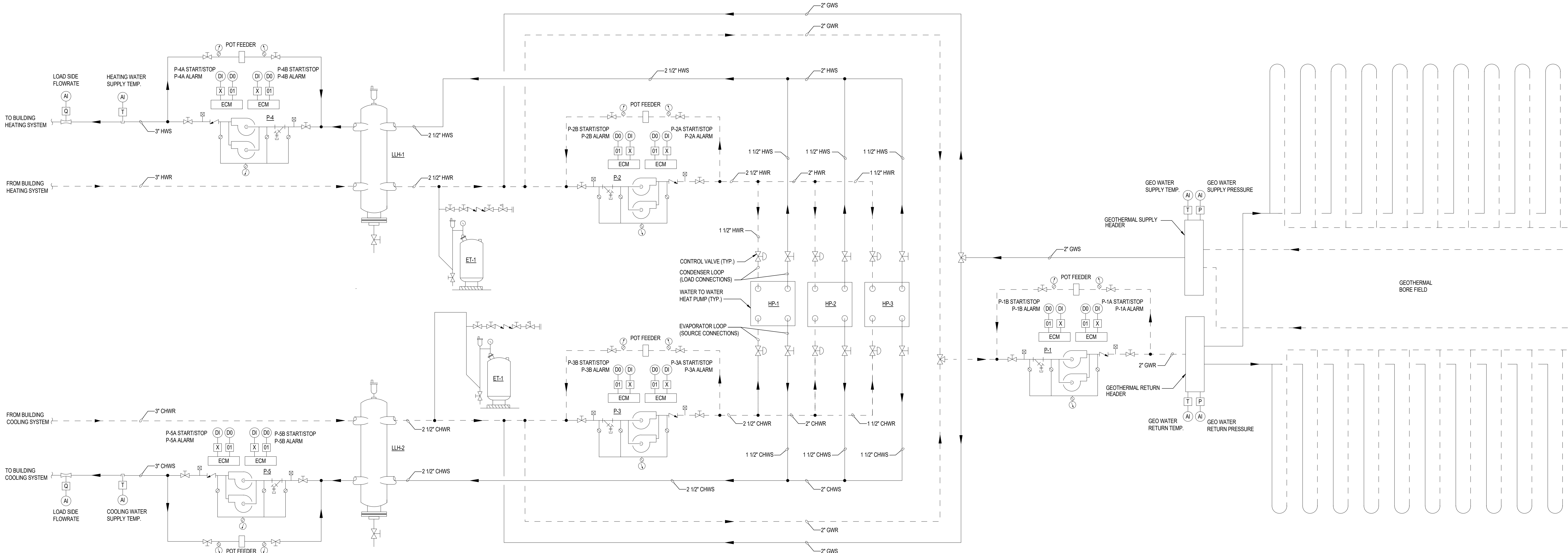
4 UNIT HEATER CONTROL DIAGRAM
NOT TO SCALE



3 CONSTANT VOLUME EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE



2 VAV CONTROL DIAGRAM
NOT TO SCALE



7 MECHANICAL PIPING FLOW DIAGRAM
NOT TO SCALE

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CONSTRUCTION

Revisions		
No.	Date	Description

Project Information
Phase: 90% CONSTRUCTION SET Date: 2021 MAY 24
Project No.: 2020-61082 PIC / AIC:
WAKAN TIPI CENTER

Sheet Title
MECHANICAL CONTROL
SCHEMATICS

Sheet Number Current Revision

M701

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PLUMBING ABBREVIATIONS					
AG	ABOVE GRADE	FCO	FLOOR CLEANOUT	PSF	POUNDS PER SQUARE FOOT
ADD	ADDENDUM	FD	FLOOR DRAIN	PSI	POUNDS PER SQUARE INCH
ADJ	ADJUSTABLE	FLR	FLOOR	PWR	POWER
AF	ABOVE FINISH FLOOR	FT	FEET PER MINUTE	QTY	QUANTITY
AFG	ABOVE FINISH GRADE	FURN	FURNACE		
ALT	ALTERNATE	GA	GAUGE/GAGE	R	RADIUS
APPRX	APPROXIMATE	GAL	GALLON	RD	ROOT DRAIN
ARCH	ARCHITECT, ARCHITECTURAL	GALV	GALVANIZED	REQD	REQUIRED
		GC	GENERAL CONTRACTOR	REV	REVERSE OR REVISION
		GPM	GALLONS PER MINUTE	RM	REVOLUTIONS PER MINUTE
BG	BELOW GRADE	GYP	GYPSPUM	SAV	SANITARY
BLDG	BUILDING			SCH	SCHEDULE
BI	BLACK IRON	HA	HAMMER ARRESTOR	SCW	SOFT COLD WATER
BOP	BOTTOM OF PIPE	HB	HOSE BIB	SECT	SECTION
BOT	BOTTOM	HORIZ	HORIZONTAL	SF	SQUARE FEET
BSMT	BASEMENT	HP	HORSEPOWER	SHT	SHEET
BTWN	BETWEEN	HT	HEIGHT	SHWR	SHOWER
		HW	HOT WATER	SM	SIMILAR
		HWR	HOT WATER RETURN	SPEC	SPECIFICATIONS
				SQ	SQUARE
				SS	STAINLESS STEEL
CI	CAST IRON	IE	INVERT ELEVATION		
CL	CENTERLINE	IN	INCH	T&B	TOP AND BOTTOM
CLR	CLEAR	INSUL	INSULATION	TEMP	TEMPERATURE OR TEMPORARY
COL	COLUMN	LB	POUND	TYP	TYPICAL
COMP	COMPRESSOR	LOC	LOCATION	UNO	UNLESS NOTED OTHERWISE
CONC	CONCRETE	MAX	MAXIMUM		
COND	CONDENSATE	MC	MECHANICAL CONTRACTOR		
CONN	CONNECTION	MECH	MECHANICAL	V	VENT
CONT	CONTINUOUS	MIN	MINIMUM	VAR	VARIABLE OR VARIES
CW	CHILLED/COLD WATER	MFR	MANUFACTURER	VERT	VERTICAL
		NFC	NOT FOR CONSTRUCTION	VOL	VOLUME
		NIC	NOT IN CONTRACT	VS	VENT STACK
		NTS	NOT TO SCALE	VTR	VENT THRU ROOF
DEPT	DEPARTMENT	OC	ON CENTER	W/	WITH
DET	DETAIL	OPNG	OPENING	WIN	WITHIN
DF	DRINKING FOUNTAIN	OPP	OPPOSITE	W/O	WITH OUT
DIA OR	DIAMETER			WC	WATER COLUMN (INCHES OF)
DN	DOWN			WCO	WALL CLEANOUT
DW	DEIONIZED WATER	PC	PLUMBING CONTRACTOR	WG	WATER GAUGE
DWG	DRAWING	PERP	PERPENDICULAR	WP	WEATHER PROOF
		PLB	PLUMBING	WT	WEIGHT
		PRES	PRESSURE		

GENERAL PLUMBING NOTES	
1.	THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
3.	CONTRACTOR SHALL VERIFY ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS
4.	ALL SANITARY PIPING SHALL HAVE A 1/4" PER FOOT SLOPE UNLESS OTHERWISE NOTED. 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
5.	VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
6.	VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
7.	CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
8.	CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
9.	INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.1, V.H-201. ACCEPTABLE MANUFACTURERS - ZURN, JOSAM, JAY R. SMITH, WATTS, SIOUX CHIEF.
10.	AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
11.	CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATINGS AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
12.	ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
13.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
14.	CHANGES IN THE DIRECTION OF SANITARY PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E. USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
15.	CONTRACTOR SHALL GIVE 48 HOURS/24 HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
16.	ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
17.	WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES WITH LESS THAN 8" MINIMUM VERTICAL CLEARANCE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (10'-0" EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 8" MINIMUM CLEARANCE.
18.	CONTRACTOR SHALL GIVE 24 HOUR NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL FROM THE BUILDING ADMINISTRATOR (OR HIS REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEMS SHUT/DOWN POINTS WITH THE OWNER REPRESENTATIVE (I.E. ENGINEERING DEPARTMENT) CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.
19.	ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
20.	PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
21.	COORDINATE WITH ARCHITECT/GENERAL CONTRACTOR FOR INSTALLATION OF HOSE BIBBS.
22.	CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
23.	ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
24.	CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
25.	CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
26.	CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.
27.	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS REQUIRED BY LOCAL WATER PURVEYORS. TEST AND REGISTER WITH APPROPRIATE CODE OFFICIAL.
28.	COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR.
29.	THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
30.	DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
31.	ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
32.	COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
33.	ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.

PLUMBING SHEET INDEX

P001	PLUMBING NOTES, LEGENDS, & ABBREVIATIONS
P110	BELOW GRADE PLUMBING PLAN
P121	FIRST FLOOR PLUMBING PLAN
P201	PLUMBING DETAILS
P301	PLUMBING SCHEDULES

GI-1 SIZING

1 - THREE COMPARTMENT SINK

* BASED ON MANUFACTURERS SIZING RECOMMENDATIONS.

PLUMBING PIPING LINETYPES	
LINE TYPE	DESCRIPTION
— G —	GAS
— — — — —	SANITARY ABOVE GRADE
— — — — —	SANITARY BELOW GRADE
— — — — —	VENT ABOVE GRADE
— — — — —	VENT BELOW GRADE
— — — — —	COLD WATER
— — — — —	COLD WATER BELOW GRADE
— — — — —	HOT WATER
— — — — —	REDIRC WATER
— — — — —	BELOW GRADE STORM
— — — — —	ABOVE GRADE STORM

PLUMBING PIPING LEGEND

	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	RPZ VALVE OR BACKFLOW PREVENTER
	HAMMER ARRESTOR
	PIPE REDUCER FITTING
	END CAP
	PIPE CONNECTION
	FLOW DIRECTION ARROW
	PIPING ELBOW DOWN
	PIPING ELBOW UP OR PIPING RISER UP & DOWN
	PIPING TEE DOWN
	PIPING TEE UP OR PIPING RISER UP & DOWN
	HOSE BIB OR WALL HYDRANT
	DOMESTIC WATER METER
	PRESSURE REGULATOR
	CIRCULATING PUMP (HOT WATER RETURN)
	NATURAL GAS UTILITY METER

WATER CALCULATIONS WORKSHEET

1. X GPM	DEMAND OF BUILDING IN GALLONS PER MINUTE	X WSFLH (DOMESTIC)
2. X psi	LOW PRESSURE AT THE CURBSTOP OR AT EXTERNAL PRESSURE TANK.	
3. X ft	DIFFERENCE IN ELEVATION FROM MAIN TO METER.	
4. 1-1/2 in	SIZE OF WATER METER IN INCHES.	
5. X ft	DEVELOPED LENGTH FROM CURBSTOP TO METER.	
6. X psi	FIND PRESSURE LOSS DUE TO FRICTION IN X WATER SERVICE. X (PSI/100 FT)	
7. X psi	FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER (OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE). MULTIPLY THE DIFFERENCE BY .434 PSIFT.	
8. X psi	FIND THE PRESSURE LOSS DUE TO METER.	
9. X psi	SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7), AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE (OR LOW PRESSURE AT EXTERNAL PRESSURE TANK). THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER (OR AT THE BUILDING CONTROL VALVE). THIS ANSWER IS ENTERED IN LINE 9, BELOW.	
INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING:		
FORMULA: A = (B - (C + D + E)) x 100 / F		
A. -	PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).	
B. X psi	AVAILABLE PRESSURE AFTER WATER METER (SEE ITEM 9, ABOVE).	
C. X psi	PRESSURE NEEDED AT CONTROLLING FIXTURE.	
D. X psi	DIFFERENCE IN ELEVATION BETWEEN WATER METER (BUILDING CONTROL VALVE OR INTERNAL PRESSURE TANK) AND CONTROLLING FIXTURE IN FEET X ft x .434 PSIFT	
E. X psi	PRESSURE LOSS DUE TO WATER SOFTENERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTORS.	
F. X ft	DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET. X x 1.5	



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Project Information

Phase: 90% CONSTRUCTION SET | Date: 2021 MAY 24
Project No.: 2020-61082 | PIC / A/C:

WAKAN TIPI CENTER

Sheet Title

PLUMBING NOTES, LEGENDS, &
ABBREVIATIONS

Sheet Number

Current Revision

P001

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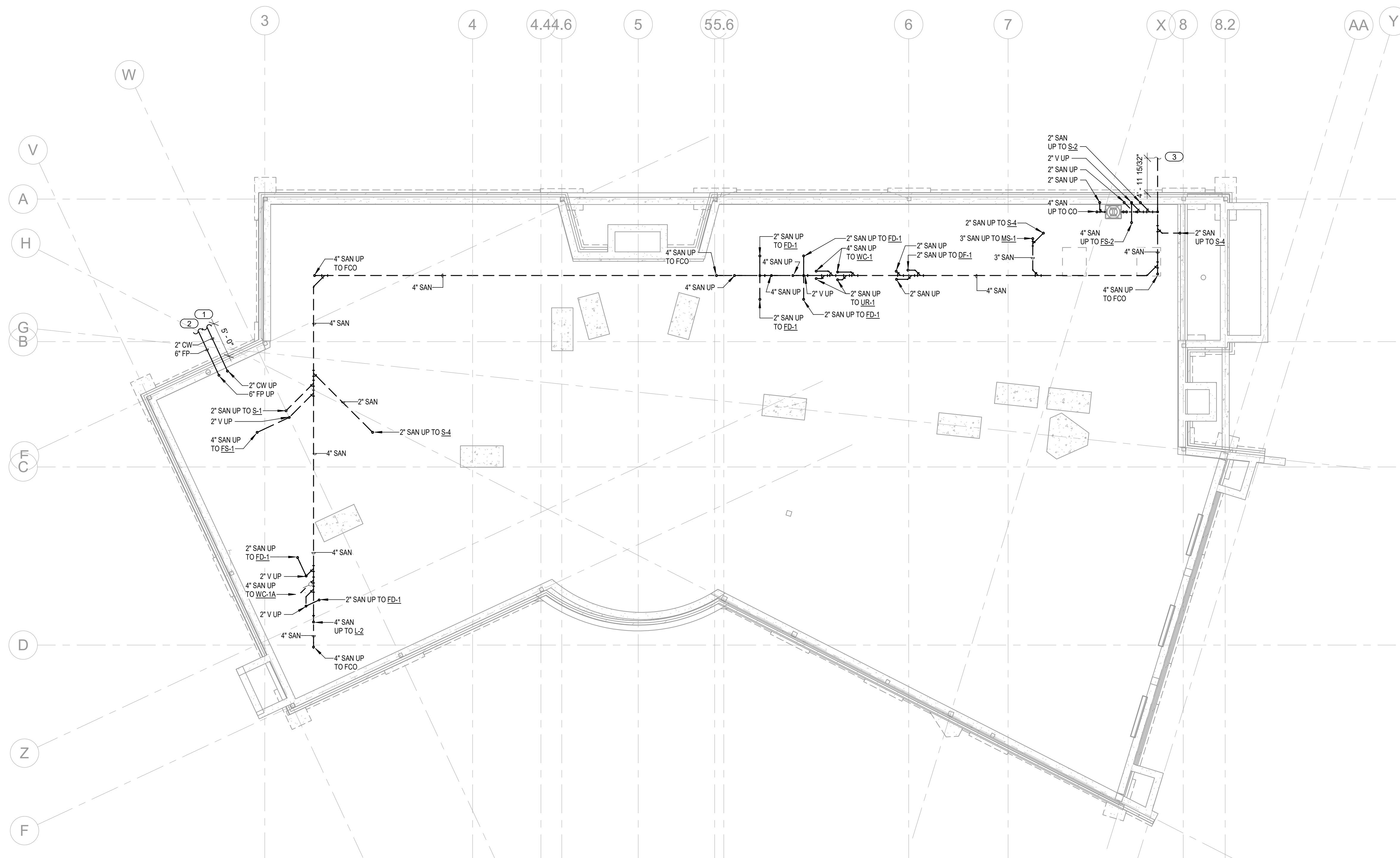


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GENERAL NOTES

- REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.
- SEE PLUMBING DETAILS AND ISOMETRICS FOR MORE INFORMATION AND ADDITIONAL PIPE SIZES.
- COORDINATE ALL PIPE ROUTING AND EQUIPMENT WITH OTHER TRADES.
- SEAL ALL PENETRATIONS PER CODE. REFER TO ARCHITECTURAL WALL RATINGS FOR REQUIRED SEALING OF PIPING PENETRATIONS.

KEYED NOTES

1	2\"/>
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1 BELOW GRADE PLUMBING PLAN

1/8\"/>



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Project Information

Phase: 90% CONSTRUCTION SET	Date:	2021 MAY 24
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Sheet Title

BELOW GRADE PLUMBING PLAN

Sheet Number

P110

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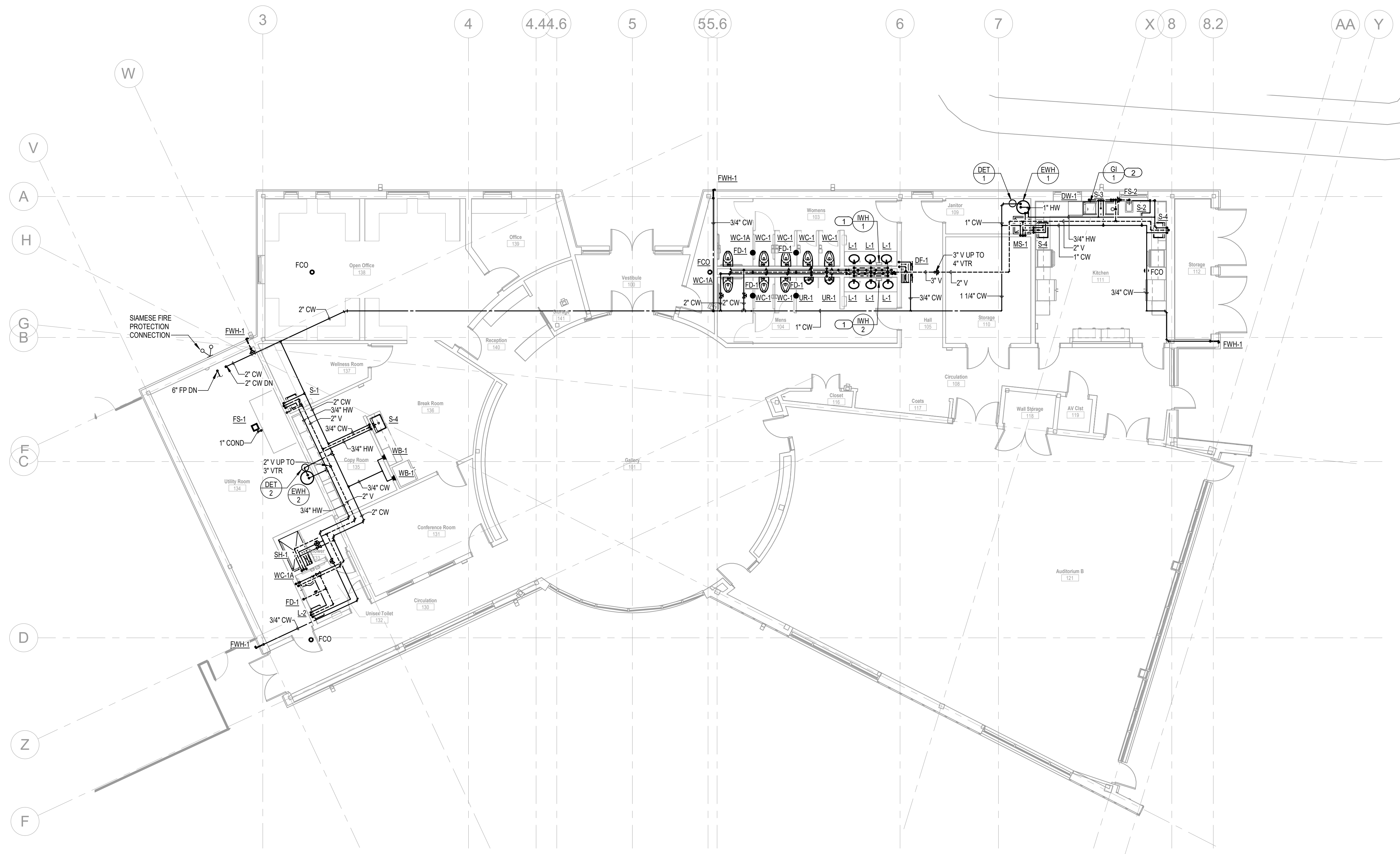


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GENERAL NOTES

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- SEE PLUMBING DETAILS AND ISOMETRICS FOR MORE INFORMATION AND ADDITIONAL PIPE SIZES.
- COORDINATE ALL PIPE ROUTING AND EQUIPMENT WITH OTHER TRADES.
- SEAL ALL PENETRATIONS PER CODE. REFER TO ARCHITECTURAL WALL RATINGS FOR REQUIRED SEALING OF PIPING PENETRATIONS.
- REFER TO ARCHITECTURAL PLANS AND CODE FOR FIXTURE HEIGHTS.
- COORDINATE ALL VENT THROUGH ROOF (VTR) LOCATIONS WITH OTHER TRADES.

KEYED NOTES

1	INSTANTANEOUS WATER HEATER TO BE MOUNTED UNDER COUNTER. WATER HEATER TO SERVE ALL THREE LAVS IN THIS RESTROOM.
2	GREASE INTERCEPTOR TO BE BURIED; ACCESSIBLE UNDER THREE COMPARTMENT SINK. REFER TO DETAIL FOR INSTALLATION.

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Project Information

Phase: 90% CONSTRUCTION SET | Date: 2021 MAY 24
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WAKAN TIPI CENTER

Sheet Title

FIRST FLOOR PLUMBING PLAN

Sheet Number

P121

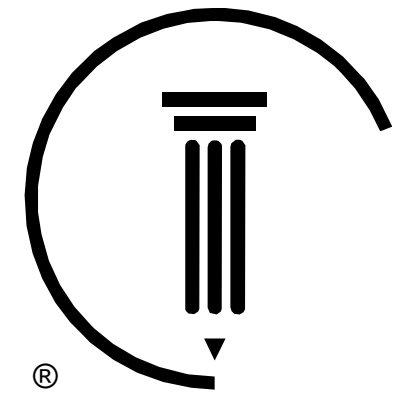
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1 FIRST FLOOR PUMBING PLAN

1/8" = 1'-0"



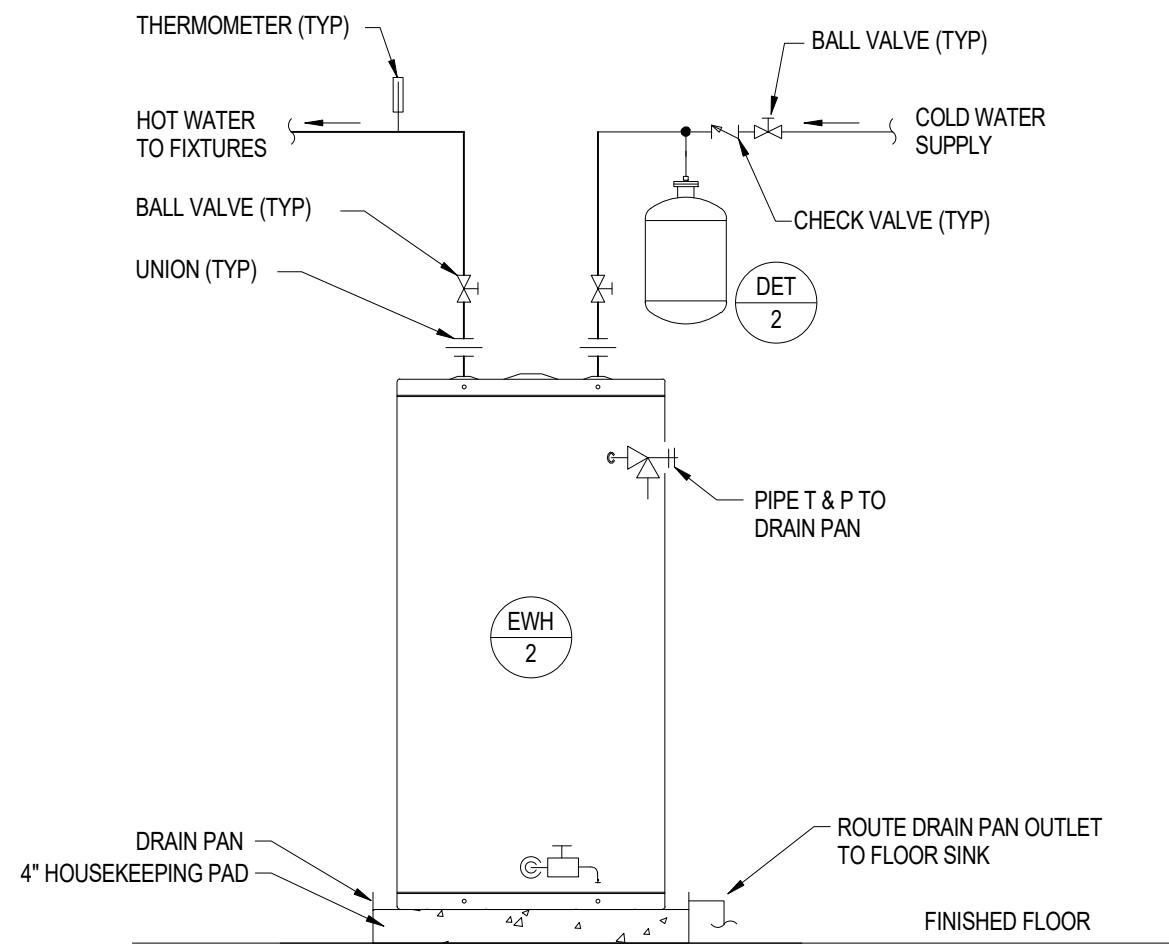


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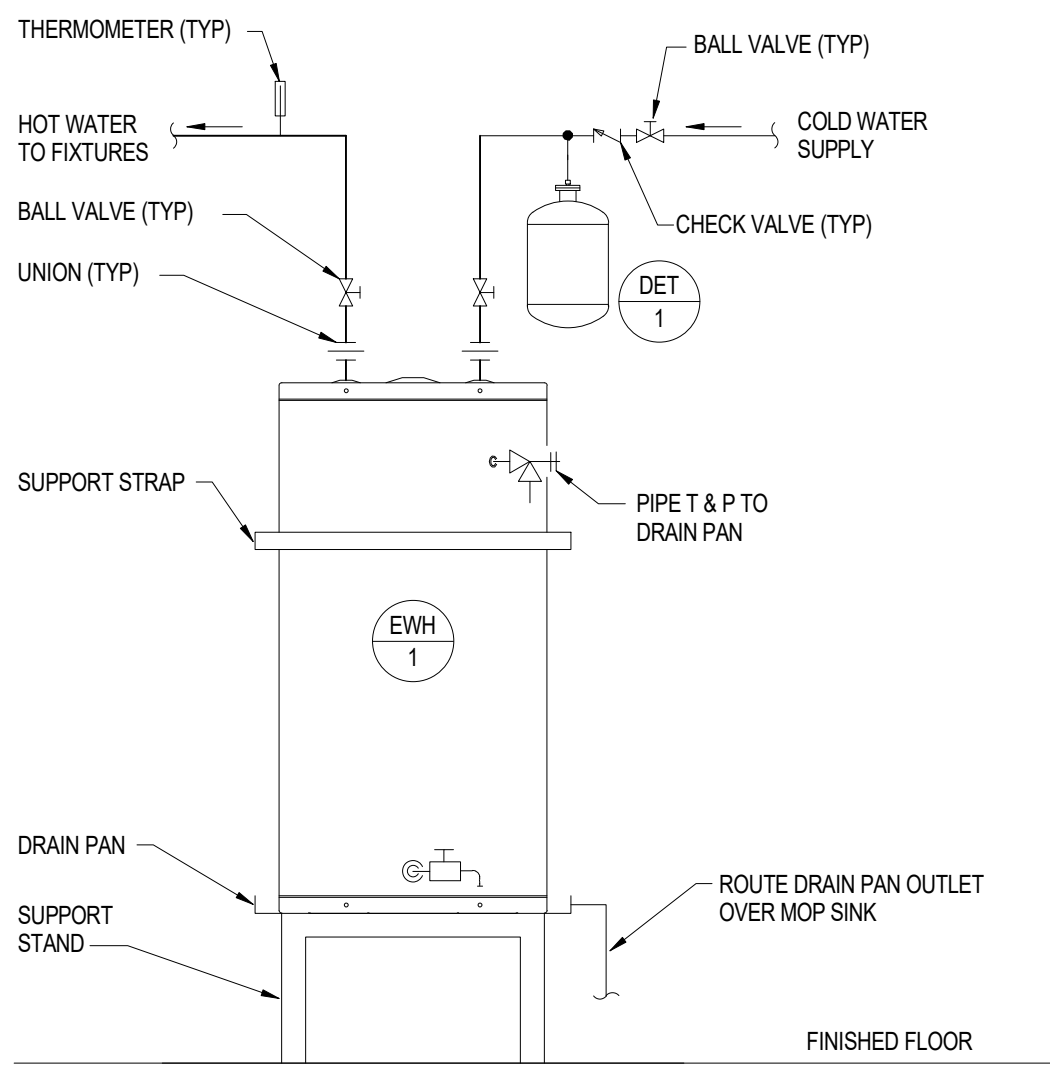
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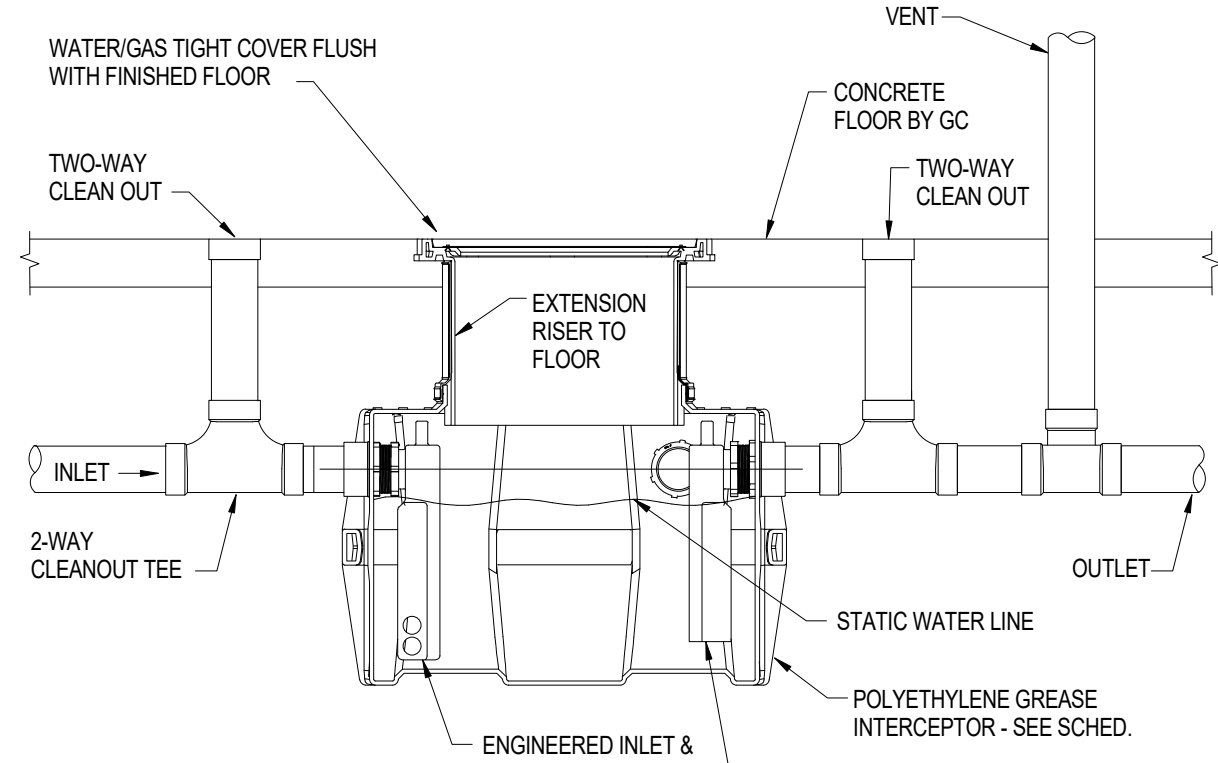
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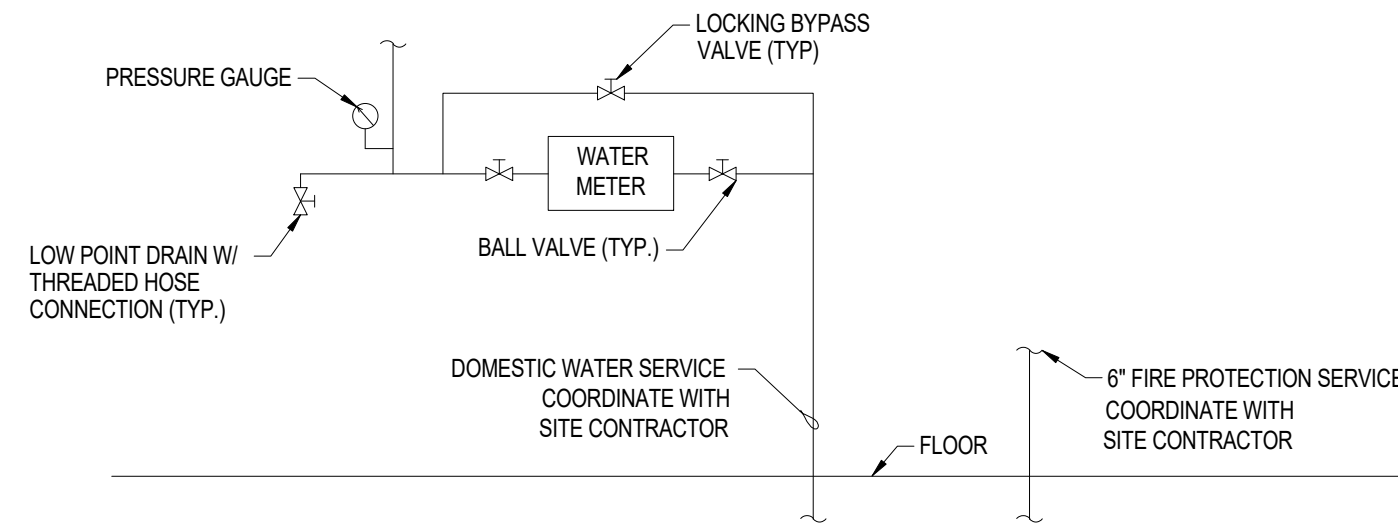
ELECTRIC WATER HEATER
4 EWH-2 UTILITY 134 DETAIL
NOT TO SCALE



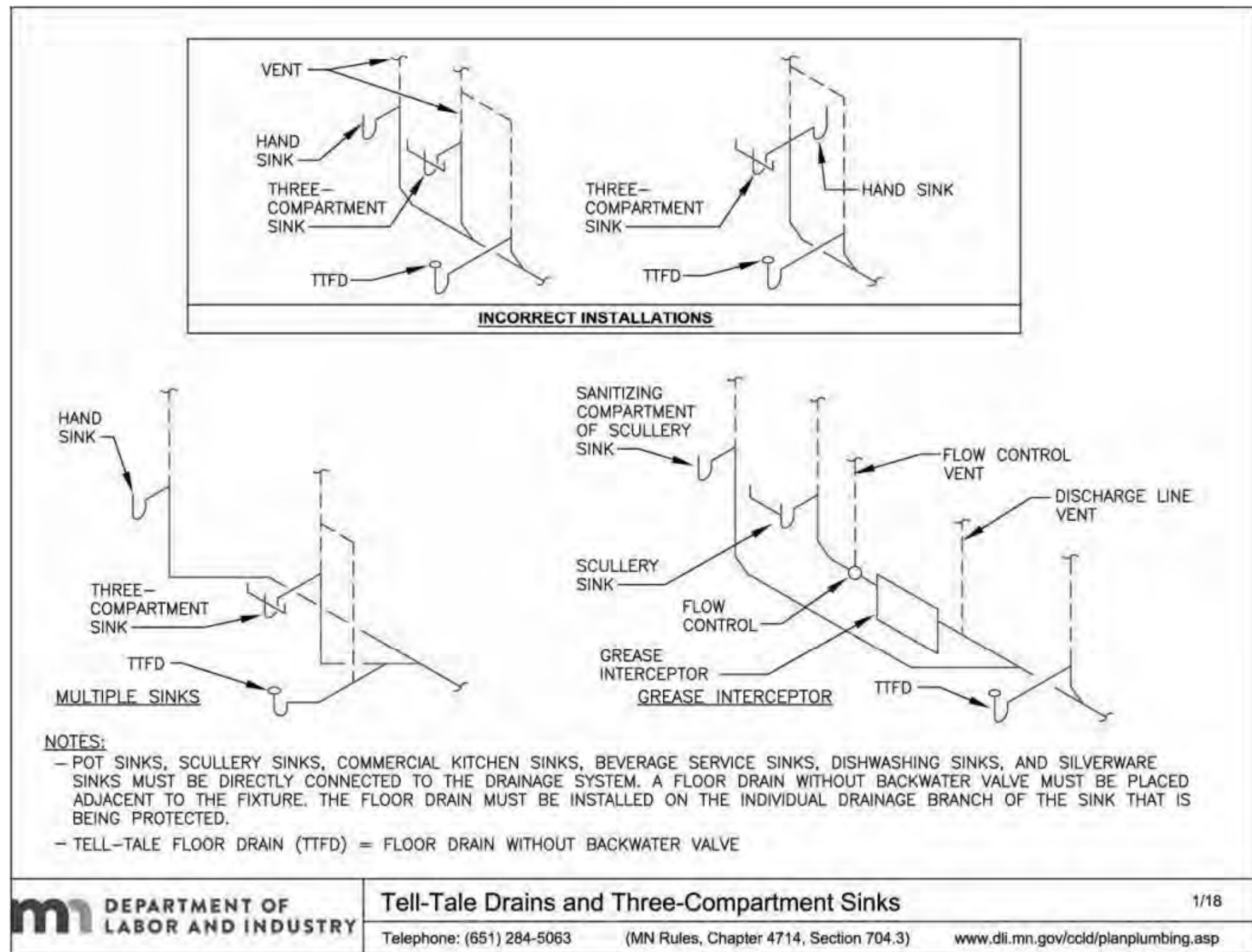
ELECTRIC WATER HEATER
3 EWH-1 JANITOR 109 DETAIL
NOT TO SCALE



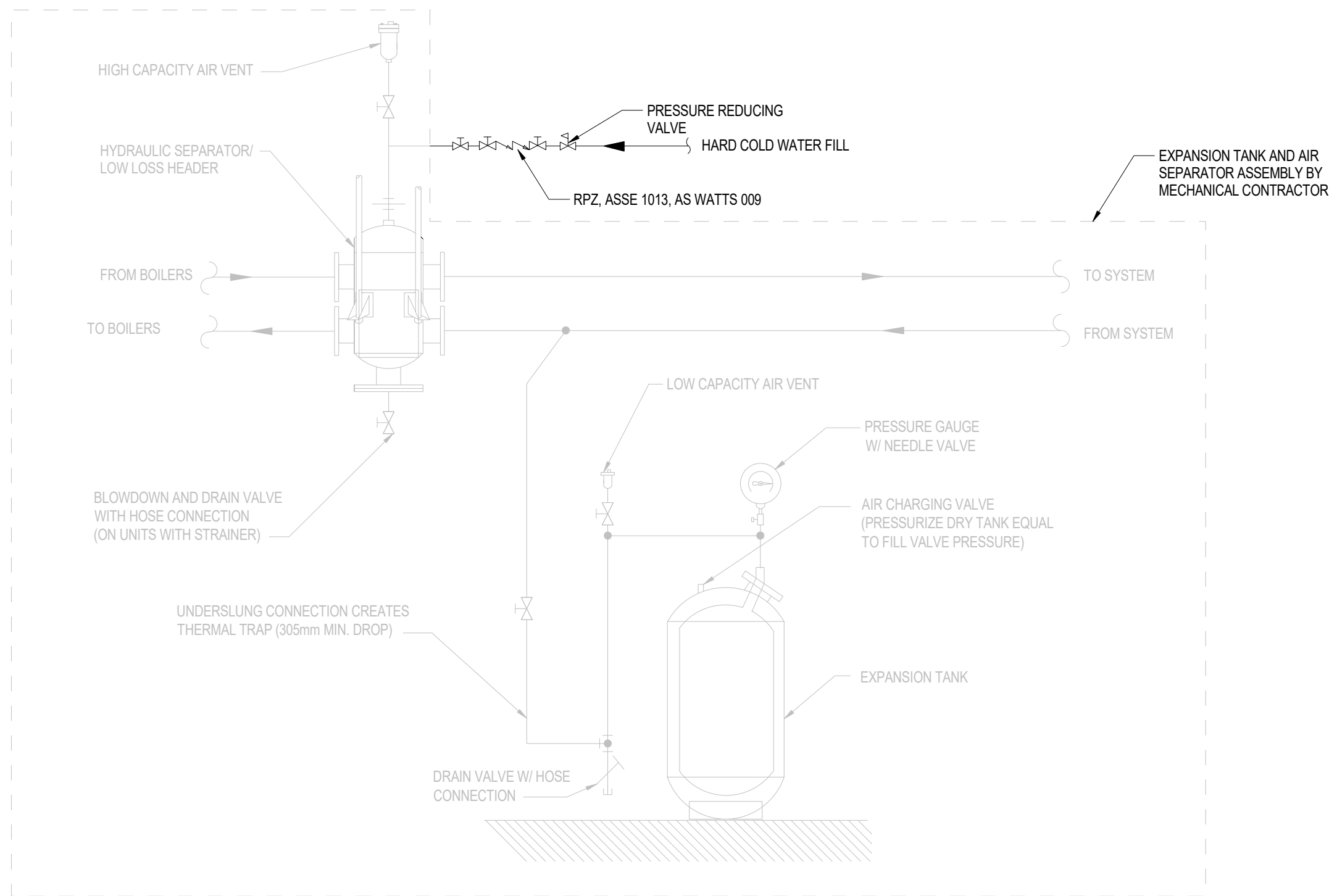
2 GREASE INTERCEPTOR TANK DETAIL
NOT TO SCALE



1 WATER ENTRANCE DETAIL
NOT TO SCALE



6 THREE COMPARTMENT SINK DETAIL
NOT TO SCALE



5 BACKFLOW PREVENTION AND PRESSURE REDUCING STATION
NOT TO SCALE

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Project Information		
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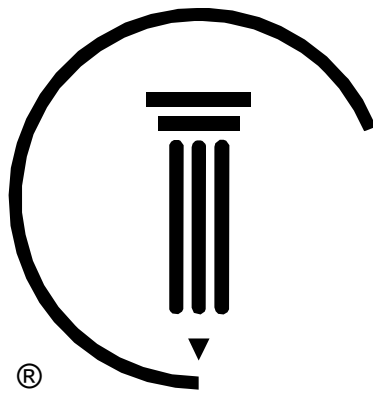
WAKAN TIPI CENTER

Sheet Title
PLUMBING DETAILS

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P501

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DOMESTIC HOT WATER EXPANSION TANK SCHEDULE													
TAG	SYSTEM	LOCATION	TYPE	SIZE		CAPACITY		FIELD AIR CHARGE (PSIG)	FLUID TYPE	SYSTEM TEMPERATURE RANGE (F)	CONNECTION (IN)	MANUFACTURER & MODEL NO.	NOTES
				HEIGHT (IN)	DIAMETER (IN)	ACTUAL ACCEPT. VOL.(GAL)	REQ. ACCEPT. VOL. (GAL)						
DET-1	DOMESTIC HOT WATER	JANITOR 109	DIAPHRAGM	14	12	3.5	1.5	12	WATER	50-110	3/4	BELL & GOSSETT PTA-12	ALL NOTES APPLY
DET-2	DOMESTIC HOT WATER	UTILITY 134	DIAPHRAGM	14	12	3.5	1.5	12	WATER	50-110	3/4	BELL & GOSSETT PTA-12	ALL NOTES APPLY
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. 2. PROVIDE AUTOMATIC AIR VENT AND DRAIN PIPING TO THE NEAREST FLOOR DRAIN.													

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
DF-1	DRINKING FOUNTAIN	ELKAY	VRCTL8SC	WALL	3/4"	-	2"	1 1/2"	WALL MOUNTED, BI-LEVEL, NON-FILTERED, REFRIGERATED, STAINLESS STEEL DRINKING FOUNTAIN. INSTALL ACCORDING TO ADA REQUIREMENTS.
FWH-1	FREEZELESS WALL HYDRANT	WOODFORD	B67	WALL	3/4"	-	-	-	WALL HYDRANT SHALL BE SELF DRAINING AND BACKFLOW PROTECTED PER ASSE 1052. LOOSE TEE KEY OPERATOR INCLUDED.
WB-1	WALL BOX	GUY GRAY	BIM875AB	WALL	3/4"	-	-	-	PROVIDE ASSE 1022 BACKFLOW PREVENTER UPSTREAM OF WALL BOX.
L-1	LAVATORY	ZURN	ZS220	UNDERMOUNT	3/4"	3/4"	2"	1 1/2"	SINGLE HOLE, UNDERMOUNT, VITEROUS CHINA SINK. PROVIDE WITH TOTO TEL103, 0.35 GPM ECOPOWER SENSOR FAUCET. COLOR SELECTION BY ARCHITECT. PROVIDE WITH ASSE 1070 POINT OF USE MIXING VALVE SET TO 110F. INSTALL ACCORDING TO ADA REQUIREMENTS.
L-2	LAVATORY	AMERICAN STANDARD	LUCERNE	WALL	3/4"	3/4"	2"	1 1/2"	SINGLE HOLE, WALL MOUNT, VITEROUS CHINA SINK. PROVIDE WITH TOTO TEL103, 0.35 GPM ECOPOWER SENSOR FAUCET. COLOR SELECTION BY ARCHITECT. PROVIDE WITH ASSE 1070 POINT OF USE MIXING VALVE SET TO 110F. INSTALL ACCORDING TO ADA REQUIREMENTS.
MS-1	MOP SINK	MUSTEE	63M	FLOOR	3/4"	3/4"	2"	2"	ONE PIECE MOLDED FIBERGLASS MOP SINK WITH INTEGRAL DRAIN. PROVIDE WITH MUSTEE 63.600A FAUCET. MUSTEE 65.600 MOP HANGER, MUSTEE 65.700 HOSE AND HOSE HOLDER, MUSTEE 63.401 BUMPER GUARDS, MUSTEE 67.2424 WALL GUARDS, AND MUSTEE 65.311 SEAL.
S-1	WELLNESS SINK	ELKAY	LRAD21955	DROP IN	3/4"	3/4"	2"	1 1/2"	STAINLESS STEEL, DROP IN SINK. PROVIDE WITH ELKAY LK406GN6T4 GOSSENECK FAUCET. INSTALL PER ADA REQUIREMENTS.
S-2	HANDWASHING SINK	ELKAY	CHS1716C	WALL	3/4"	3/4"	2"	1 1/2"	STAINLESS STEEL, SINGLE BOWL, WALL HUNG HANDWASH SINK KIT. INCLUDES ELKAY LK940GN04L2H FAUCET, DRAIN FITTING, AND P-TRAP.
S-3	3-COMPARTMENT SINK	REGENCY	600S3171TG	FLOOR	3/4"	3/4"	2"	1 1/2"	STAINLESS STEEL, 3 COMPARTMENT SINK. PROVIDE WITH T&S SPR-8W12-C WALL MOUNTED PRE RINSE ASSEMBLY AND FAUCET.
S-4	BREAKROOM & KITCHEN SINK	ELKAY	CR2521	DROP IN	3/4"	3/4"	2"	1 1/2"	STAINLESS STEEL, DROP IN SINK. PROVIDE WITH ELKAY LK406GN08T4 GOSSENECK FAUCET. INSTALL PER ADA REQUIREMENTS.
UR-1	URINAL	AMERICAN STANDARD	WASHBROOK	WALL	1"	-	2"	1-1/2"	VITEROUS CHINA, WALL MOUNTED URINAL. PROVIDE WITH SLOAN ROYAL 186 SFSM, HARDWIRED, SENSOR OPERATED FLUSH VALVE.
WC-1/1A	WATER CLOSET	AMERICAN STANDARD	AFWALL MILLENNIUM	WALL	2"	-	4"	2"	VITEROUS CHINA BOWL, WALL MOUNTED WATER CLOSET. PROVIDE WITH SLOAN ROYAL 111 SFSM, HARDWIRED AUTOMATIC FLUSHOMETER. INSTALL FIXTURE WITH ADA TAG ACCORDING TO ADA REQUIREMENTS. PROVIDE WITH AMERICAN STANDARD COMMERCIAL SEAT.
WC-2	WATER CLOSET	AMERICAN STANDARD	MADERA	FLOOR	2"	-	4"	2"	VITEROUS CHINA BOWL, FLOOR MOUNTED WATER CLOSET. PROVIDE WITH SLOAN ROYAL 111 SFSM, HARDWIRED AUTOMATIC FLUSHOMETER. INSTALL FIXTURE WITH ACCORDING TO ADA REQUIREMENTS. PROVIDE SEAT WITH AMERICAN STANDARD COMMERCIAL SEAT.
FD-1	FLOOR DRAIN	JOSAM	38250A	FLOOR	-	-	3"	2"	MOUNT STRAINER FLUSH WITH FINISHED FLOOR. CAST IRON WITH BOTTOM OUTLET COMBINATION DRAIN AND INTEGRAL DEEP SEAL TRAP WITH BACKWATER VALVE.
FS-1	FLOOR SINK	JOSAM	49340	FLOOR	-	-	3"	2"	12" SQUARE TOP, 8" DEEP FLOOR SINK. MOUNT STRAINER FLUSH WITH FINISHED FLOOR. CAST IRON WITH BOTTOM OUTLET AND INTEGRAL DOME STRAINER.
FS-2	FLOOR SINK	JOSAM	49340	FLOOR	-	-	4"	2"	12" SQUARE TOP, 8" DEEP FLOOR SINK. PROVIDE WITH 1/2 GRATE AND SEDIMENT BUCKET. MOUNT STRAINER FLUSH WITH FINISHED FLOOR. CAST IRON WITH BOTTOM OUTLET AND INTEGRAL DOME STRAINER.
SH-1	SHOWER	LG ACCESSIBLE SHOWERS	LSS6337W75B	-	3/4"	3/4"	2"	1-1/2"	ONE PIECE FIBERGLASS SHOWER. COLOR SELECTION BY ARCHITECT. SHOWER SHALL INCLUDE GRAB BAR, FOLDING SEAT, MIXING VALVE, PRESSURE BALANCED LEVER HANDLE, PREPLUMBED TREE TO SUPPLY ELBOW, SOAP DISH AND WING WALL. INSTALLED AT FACTORY. CONTRACTOR TO INSTALL FACTORY FURNISHED CURTAIN AND ROD, T-SHAPED RUBBER WATERSTOPPER KIT, SEMI PERMANENT THRESHOLD ADAPTOR, AND CAULKLESS DRAIN. CONTRACTOR SHALL PROVIDE AMERICAN STANDARD TUB62.211 COMMERCIAL SHOWER TRIM KIT.
DW-1	DISHWASHER	BY OTHERS	BY OTHERS	-	-	3/4"	-	-	PROVIDE HAMMER ARRESTOR AND SHUTOFF VALVE PRIOR TO CONNECTION. ROUTE DRAIN THROUGH AIR GAP AND CONNECT TO TAILPIECE OF STRAINER.

INSTANTANEOUS HOT WATER HEATER SCHEDULE									
MARK	LOCATION	SERVICE	TEMP RISE (F)	SETPPOINT (F)	FLOW (GPM)	INPUT (KW)	ELEC CHAR. (V/Ph)	MANUFACTURER AND MODEL NO.	NOTES
IWH-1	WOMENS 103	L-1 GROUPS	55	105	1	8.3	208/1	EEMAX LAVADVANTAGE SPEX8208T ML	ALL NOTES APPLY
IWH-2	MENS 104	L-1 GROUPS	55	105	1	8.3	208/1	EEMAX LAVADVANTAGE SPEX8208T ML	ALL NOTES APPLY
NOTES: 1. REFER TO WATER HEATER DETAIL. 2. INSTANTANEOUS WATER HEATER HAS NO STORAGE TANK AND 0 GAL CAPACITY. 3. UNIT DISCONNECT PROVIDED BY E.C.									

ELECTRIC HOT WATER HEATER SCHEDULE								
MARK	LOCATION	SERVICE	TEMP RISE (F)	TANK CAPACITY (GAL)	INPUT (KW)	ELEC CHAR. (V/Ph)	MANUFACTURER AND MODEL NO.	NOTES
EWH-1	JANITOR 109	JANITOR 109, KITCHEN 111	63	50	6	208/1	AO SMITH, DRE-52	1, 2
EWH-2	UTILITY 134	RR 132, SHOWER 133, BREAK ROOM 136, WELLNESS 137	63	50	6	208/1	AO SMITH, DRE-52	ALL NOTES APPLY
NOTES: 1. REFER TO WATER HEATER DETAIL SPECIFIC TO EACH WATER HEATER. 2. UNIT DISCONNECT TO BE PROVIDED BY E.C. 3. UNIT IS TO BE MOUNTED ON 4" HOUSEKEEPING PAD. CONTRACTOR SHALL COORDINATE FINAL SIZE WITH UNIT SELECTION.								

GREASE INTERCEPTOR SCHEDULE											
MARK	LOCATION	FLOWRATE (GPM)	LIQUID CAP. (GAL.)	GREASE CAP. (LBS)	STANDARD CONNECTION (IN.)	DIMENSIONS (INCHES)			DRY WEIGHT (LBS)	MANUFACTURER AND MODEL NO.	NOTES
						LENGTH	WIDTH	HEIGHT			
GI-1	KITCHEN 130	25	10	70	2"	27	23	12	39	SCHIER, GB1	ALL NOTES APPLY
NOTES: 1. REFER TO DETAIL. 2. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 3. PROVIDE FIELD CUT RISER.											

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Revisions		
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Project Information		
Phase: 90% CONSTRUCTION SET		Date: 2021 MAY 24
Project No.:	2020-61082	PIC / AIC:

WAKAN TIPI CENTER

Sheet Title
PLUMBING SCHEDULES

Sheet Number
P601

Current Revision

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GENERAL ELECTRICAL NOTES

1. THIS IS AN OFFICE STANDARD SYMBOL LIST. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THIS PROJECT.
2. ALL WORK SHALL BE DONE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES, AND/OR ORDINANCES.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. EG SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE, BUT NOT LIMITED TO, TRANSFORMER, METERING, AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
6. UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
7. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND SCHEDULING OF REQUIRED ELECTRICAL INSPECTIONS.
10. 20AMP CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP PER CIRCUIT OVERALL LENGTH AS FOLLOWS:

120 VOLT LENGTH	AWG	277 VOLT LENGTH	AWG
<120'	#12	<200'	#12
120'-200'	#10	200'-330'	#10
200'-300'	#8	330'-500'	#8
>300'	#6	>500'	#6

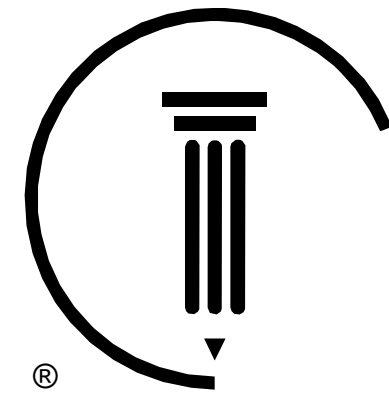
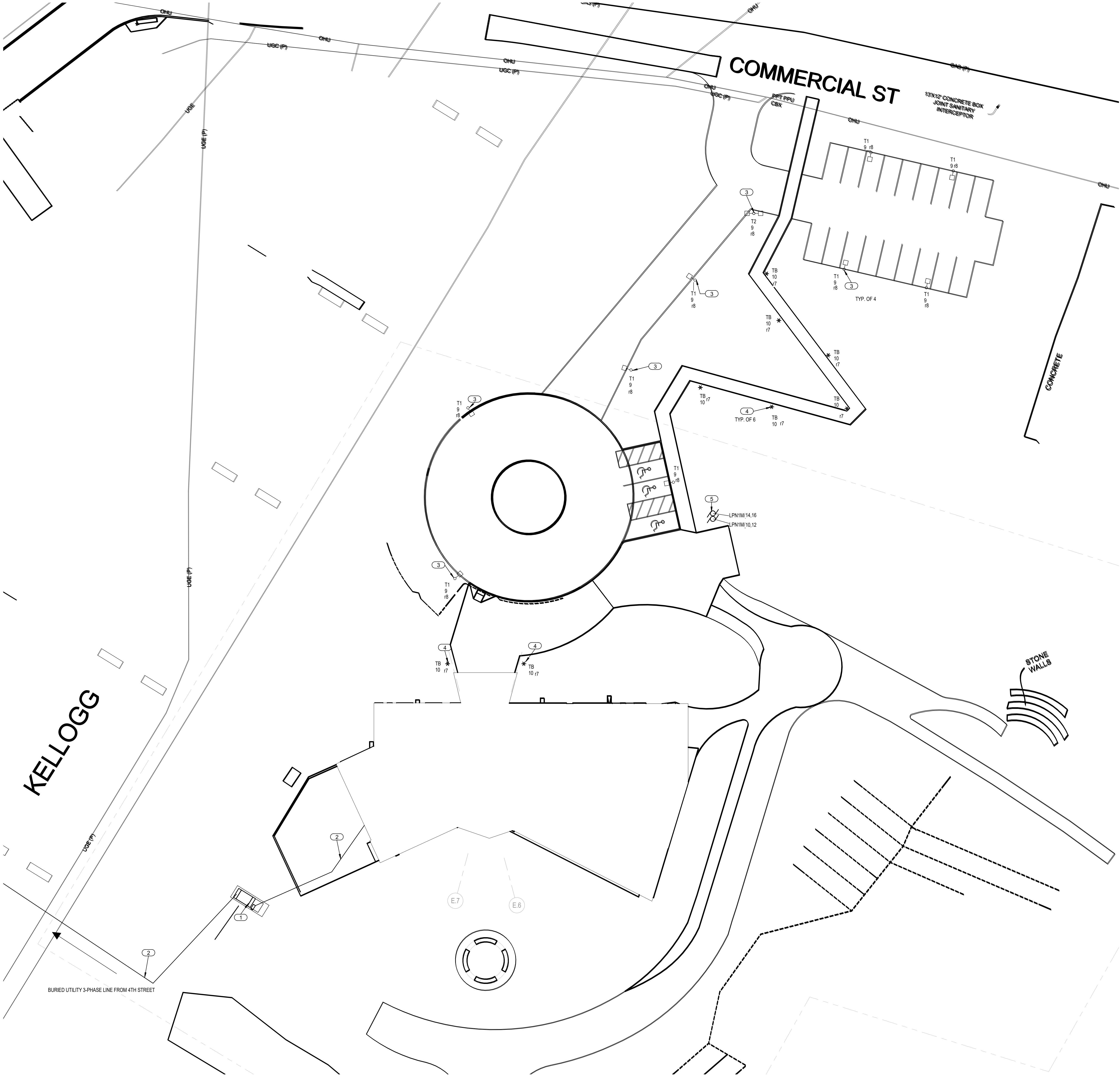
ELECTRICAL SYMBOLS LEGEND		ELECTRICAL ABBREVIATIONS	
RECEPTACLES		ONE LINE DIAGRAM	
	20A, 120V, 1P, 3W GROUNDING DUPLEX RECEPTACLE		TRANSFORMER
	SWITCHED RECEPTACLE (1 SWITCHED & 1 UNSWITCHED)		NEW PANEL BOARD
	SINGLE-PLEX RECEPTACLE		EXISTING PANEL BOARD TO REMAIN
	QUADPLEX RECEPTACLE		PANEL BOARD TO BE REMOVED
	GFCI RECEPTACLE		3 POLE CIRCUIT BREAKER
	RECEPTACLE MTD. 6\" ABOVE COUNTER OR HGT SHOWN		LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER
	TAMPER RESISTANT RECEPTACLE		PRIMARY DRAW OUT TYPE CIRCUIT BREAKER
	WEATHER-PROOF GFCI RECEPTACLE		LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER WITH CURRENT LIMITING FUSES
	QUADPLEX FLOORBOX		NORMALLY OPEN CONTACT
	120V, 15A CLOCK OUTLET		NORMALLY CLOSED CONTACT
POWER			3 POLE DISCONNECT SWITCH AND FUSE
	PANEL BOARD		GROUNDING CONNECTION
	DISTRIBUTION PANEL BOARD		LIGHTING ARRESTER AND GROUNDING
	SEPARATE CIRCUIT BREAKER		POTENTIAL TRANSFORMER
	UTILITY METER		CURRENT TRANSFORMER
	DISCONNECT		KIRK KEY INTERLOCK SYSTEM
	FUSED DISCONNECT SWITCH		MOTOR OPERATOR FOR CIRCUIT BREAKER OR SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH		SHUNT TRIP
	TRANSFORMER		UTILITY METER
	MOTOR STARTER/CONTACTOR		CUSTOMER METER
	COMBINATION MOTOR STARTER		GROUND FAULT PROTECTION SYSTEM
	COMBINATION MOTOR STARTER		TOTALIZING WATT HOUR METER
	PUSH BUTTON STATION AS NOTED		VARMETER
	J-BOX		AMMETER
	FLOOR BOX		AMMETER PHASE SWITCH
	OVERHEAD BOX		DEMAND METER
	PULL BOX, SIZE AS NOTED OR AS REQUIRED BY CODE		GROUND DETECTOR
	ELECTRICAL EQUIPMENT CONNECTION		SYNCHROSCOPE
	MOTOR CONNECTION		POWER FACTOR METER
	CEILING FAN		FREQUENCY METER
	CABLE TRAY RUN		VOLTMETER
	HOME RUN TO PANEL BOARD		
COMMUNICATIONS			
	SURFACE MOUNTED RACEWAY WITH DEVICES AS NOTED		
	TELEPHONE		
	TELEPHONE / DATA		
	DATA ONLY		
	COMMUNICATION DEVICE MTD 6\" ABOVE COUNTER OR HGT SHOWN		
	DATA FLOOR BOX		
	WIRELESS ACCESS POINT		
	CEILING MOUNTED SPEAKER		
	WALL MOUNTED SPEAKER		
	SPEAKER VOLUME CONTROL		
	TELEVISION OUTLET		
SECURITY			
	CLOSED CIRCUIT CAMERA (CCC)		
	CARD READER		
	DOOR CONTACT SENSOR		
	DURESS BUTTON		
	MOTION SENSOR		
	GLASS BREAK SENSOR		
	ELECTRIC LOCK, SEE DOOR HARDWARE SPEC.		
	MAGNETIC LOCK		
	DOOR SECURITY POWER SUPPLY (CONNECT TO AUTO OPERATOR CIRCUIT)		
	REQUEST TO EXIT DEVICE		
LIGHTING		FIRE ALARM	
	FIXTURE TYPE PER SCHEDULE		MANUAL PULL STATION - 46\" AFF TO CENTER
	TROFFER STYLE FIXTURE, TYPE AS NOTED		WALL MTD AUDIO NOTIFICATION - 82\" AFF
	SWITCH LEGS		WALL MTD VISUAL NOTIFICATION - 82\" AFF
	FIXTURE ON EMERGENCY POWER		WALL MTD AUDIO/VISUAL - 82\" AFF
	STRIP LIGHT / SUSPENDED DIRECT/INDIRECT		CEILING MTD VISUAL NOTIFICATION
	SURFACE MTD FIXTURE		CEILING MTD AUDIO NOTIFICATION
	TRACK LIGHTING		CEILING MTD AUDIO/VISUAL NOTIFICATION
	PENDANT/SURFACE MTD UP/DOWN LIGHT		SMOKE DETECTOR
	RECESSED/DOWNLIGHT FIXTURE		HEAT DETECTOR
	ACCENT FIXTURE		DUCT DETECTOR
	WALL MOUNTED FIXTURE		FIRE BARRIER CONNECTION
	EXIT SIGN (ARROWS INDICATED AS SHOWN) (SHADING INDICATES # OF FACES)		FIRE ALARM RELAY
	CLG MTD EMERGENCY FIXTURE		SPRINKLER FLOW SWITCH
	EMERGENCY FIXTURE		TAMPER FLOW SWITCH
	COMBO EMERGENCY/EXIT LIGHT (ARROW INDICATES DIRECTION) (SHADING INDICATES # OF FACES)		MAGNETIC DOOR HOLD
	BOLLARD/SIDEWALK LIGHT		FIRE ALARM CONTROL PANEL
	FLOOD LIGHT		FIRE ALARM ANNUNCIATOR PANEL
	SINGLE HEAD FIXTURE/POLE		
	TWIN HEAD FIXTURE/POLE		

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WAKAN TIPI CENTER

Sheet Number _____ **Current Revision** _____

Б001



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GENERAL NOTES

1. REFER TO E001 FOR OTHER NOTES AND INSTRUCTIONS THAT MAY APPLY.
2. REFERENCE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ALL SITE ACTIVITIES WITH THOSE DISCIPLINES.
3. ALL WORK ASSOCIATED WITH ELECTRICAL UTILITY SHALL BE COORDINATED WITH THE ELECTRIC UTILITY, WHOSE REQUIREMENTS SUPERSEDE THESE DOCUMENTS.
4. COORDINATE ALL TRENCHING AND BURIAL OF CONDUIT WITH CIVIL AND GENERAL CONTRACTOR. FILL OF TRENCHES MAY NEED SPECIAL REQUIREMENTS DUE TO CONTAMINATED SOIL. COORDINATE ALL BURIED LINES WITH OTHER DISCIPLINES.
5. CIRCUIT NUMBERS ARE FROM PANEL HPN-2 UNLESS OTHERWISE SPECIFIED.

KEYED NOTES

1	LOCATION OF UTILITY-PROVIDED PAD-MOUNTED TRANSFORMER. EC TO PROVIDE METER SOCKET. SEE ONE-LINE DIAGRAM ON SHEET E701.
2	APPROXIMATE LOCATION OF UTILITY BURIED INCOMING POWER AND SECONDARY LINE TO DISCONNECT (SEE NOTE ON SHEET E121) AND TO BUILDING.
3	BURY 3/4\" CONDUITS FOR LIGHT POLE CIRCUIT AND CONTROL WIRING. SEE DETAILS ON SHEET E501 FOR LIGHT POLE BASE MOUNTING.
4	BURY 3/4\" CONDUITS FOR BOLLARD CIRCUIT AND CONTROL WIRING. SEE DETAILS ON SHEET E501 FOR BOLLARD BASE MOUNTING.
5	BURY 3/4\" CONDUIT FOR POWER TO LIFT STATION PUMPS. POWER TO CONTROLLER MOUNTED ON POLE NEAR LIFT STATION HOLE. SEE CIVIL SHEETS C300 AND C501 AND COORDINATE WITH CIVIL CONTRACTOR.

[90% REVIEWER NOTE: ADDITIONAL APPROVED MANUFACTURERS WILL BE ADDED FOR 100% ONE VERSION OF EACH TYPE SHOWN NOW.]

LIGHT FIXTURE SCHEDULE SITE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	LAMP	NOTES
T1	POLE-MOUNTED LOW PROFILE LED LIGHT, 25\" POLE, SINGLE HEAD	25\" POLE	LITHONIA LIGHTING	DSX1	LED, 8300LM, T2M DISTRIBUTION, 3000K, 70+ CRI	
T2	POLE-MOUNTED LOW PROFILE LED LIGHT, 26\" POLE, DUAL 18000GG HEADS	26\" POLE 180 DEGREE	LITHONIA LIGHTING	DSX1	LED, 8300LM, T1TM DISTRIBUTION, 3000K, 70+ CRI	
TB	3\" BOLLARD 8\" DIAM, ROUND DOME, FULL CUTOFF, BLACK	SEE DETAIL	LITHONIA LIGHTING	DSXB	LED, 1000 LM, 80+ CRI, 3000K	

PRELIMINARY NOT FOR
CONSTRUCTION

Revisions		
No.	Date	Description

Project Information		
Phase: 90% CONSTRUCTION SET	Date:	2021 MAY 24
Project No.:	2020-61082	PIC / AIC:

WAKAN TIPI CENTER

Sheet Title
ELECTRICAL SITE PLAN

Sheet Number
E101

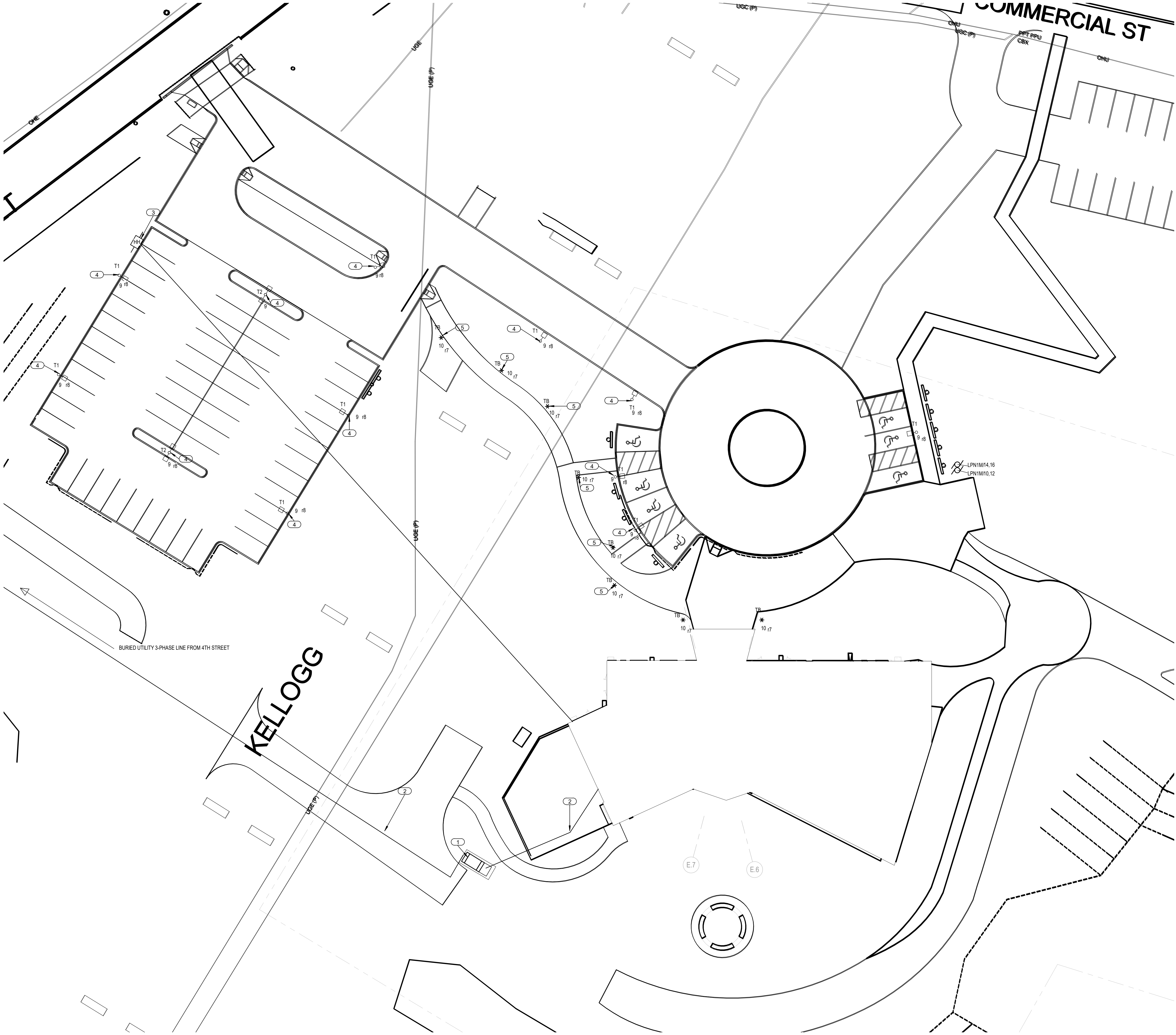
Current Revision

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1 ELECTRICAL SITE PLAN - PHASE I

1\" = 20'-0\"





GENERAL NOTES	
1.	REFER TO E001 FOR OTHER NOTES AND INSTRUCTIONS THAT MAY APPLY.
2.	REFERENCE ARCHITECTURAL, CIVIL, AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ALL SITE ACTIVITIES WITH THOSE DISCIPLINES.
3.	ALL WORK ASSOCIATED WITH ELECTRICAL UTILITY SHALL BE COORDINATED WITH THE ELECTRIC UTILITY, WHOSE REQUIREMENTS SUPERSEDE THESE DOCUMENTS.
4.	COORDINATE ALL TRENCHING AND BURIAL OF CONDUIT WITH CIVIL AND GENERAL CONTRACTOR. FILL OF TRENCHES MAY NEED SPECIAL REQUIREMENTS DUE TO CONTAMINATED SOIL. COORDINATE ALL BURIED LINES WITH OTHER DISCIPLINES.
5.	CIRCUIT NUMBERS ARE FROM PANEL HPN-2 UNLESS OTHERWISE SPECIFIED.

KEYED NOTES	
1	LOCATION OF UTILITY-PROVIDED PAD-MOUNTED TRANSFORMER. EC TO PROVIDE METER SOCKET. SEE ONE-LINE DIAGRAM ON SHEET E701.
2	APPROXIMATE LOCATION OF UTILITY BURIED INCOMING POWER AND SECONDARY LINE TO DISCONNECT (SEE NOTE ON SHEET E121) AND TO BUILDING.
3	BURY 1-1/4\"/>
4	LIGHT POLES TO BE REMOVED FROM PHASE 1 LOCATIONS AND REINSTALLED AT LOCATIONS INDICATED. SEE SHEET E101 AND DEMOLISH EXISTING BASES AND CONDUCTORS. BURY 3/4\"/>
5	BOLLARDS TO BE REMOVED FROM PHASE 1 LOCATIONS AND REINSTALLED AT LOCATIONS INDICATED. SEE SHEET E101 AND DEMOLISH EXISTING BASES AND CIRCUIT CONDUCTORS. BURY 3/4\"/>

[90% REVIEWER NOTE: ADDITIONAL APPROVED MANUFACTURERS WILL BE ADDED FOR 100%. ONE VERSION OF EACH TYPE SHOWN NOW.]

LIGHT FIXTURE SCHEDULE SITE						
TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	LAMP	NOTES
T1	POLE-MOUNTED LOW PROFILE LED LIGHT, 25\"/>	25\"/>	LITHONIA LIGHTING	DSX1	LED, 3300LM, T2M DISTRIBUTION, 3000K, 70+ CRI	
T2	POLE-MOUNTED LOW PROFILE LED LIGHT, 25\"/>	25\"/>	LITHONIA LIGHTING	DSX1	LED, 3300LM, TFTM DISTRIBUTION, 3000K, 70+ CRI	
TB	3\"/>	SEE DETAIL	LITHONIA LIGHTING	DSXB	LED, 1000 LM, 80+ CRI, 3000K	

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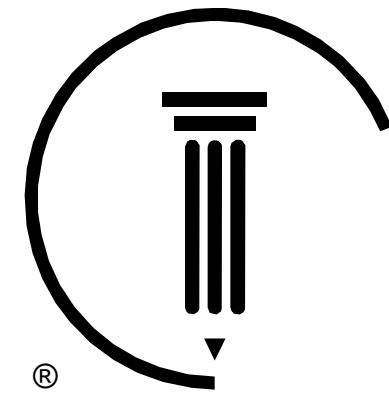
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Project Information
Phase: 90% CONSTRUCTION SET Date: 2021 MAY 24
Project No.: 2020-61082 PIC / A/C:
WAKAN TIPI CENTER

Sheet Title
ELECTRICAL SITE PLAN PHASE 2

Sheet Number **Current Revision**
E102



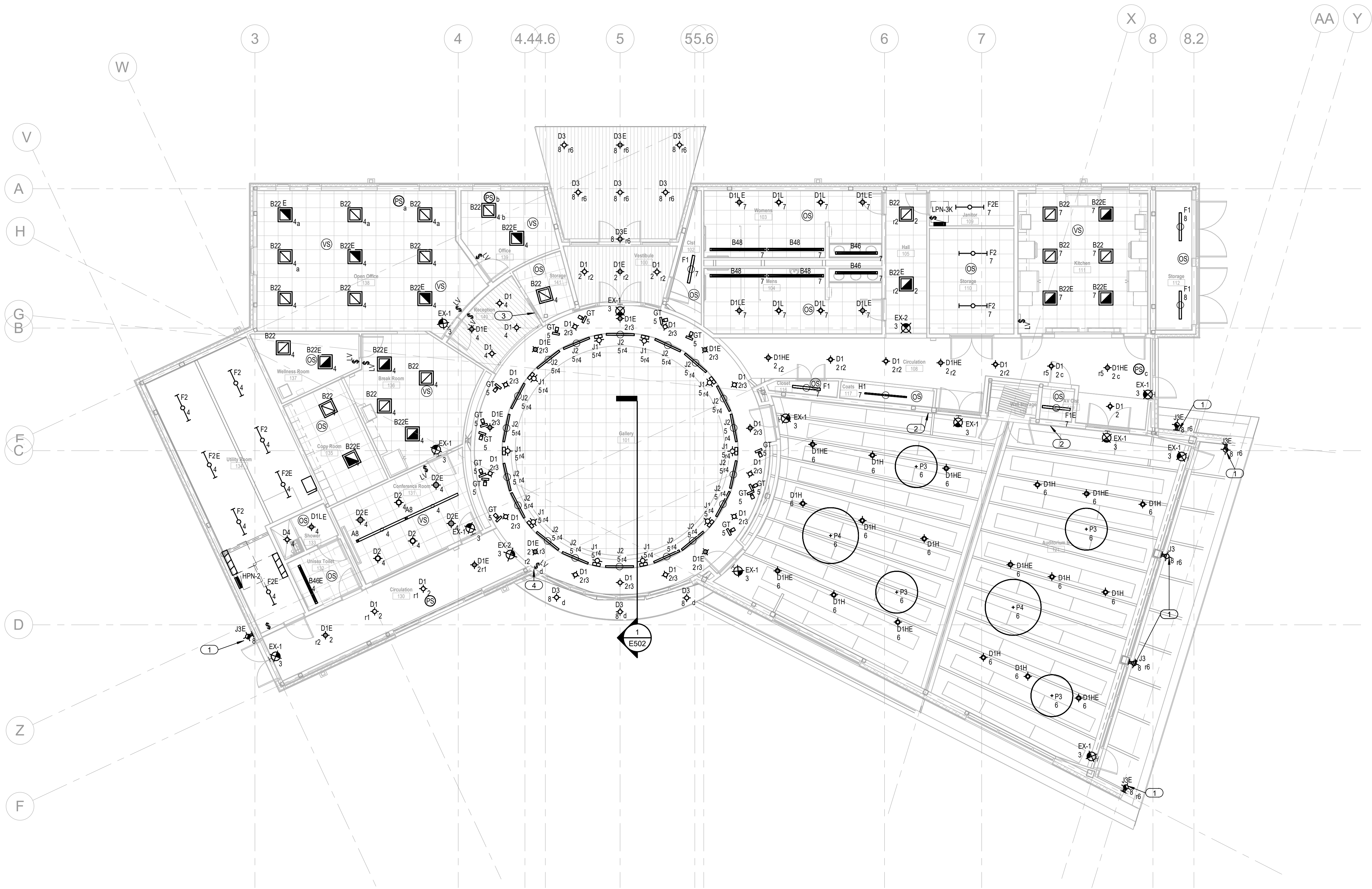


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GENERAL NOTES

1. ALL LIGHTING CIRCUITS TO PANEL HPN-2, UNLESS OTHERWISE NOTED.
2. AN 'E' AFTER THE LIGHT TAG DESIGNATOR INDICATES AN EMERGENCY FIXTURE. CONNECT TO BACKUP INVERTER VIA UL924 RELAY - SEE DETAIL ON SHEET E501.
3. INSTALL LIGHTING AND CONTROLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF THE LUMINAIRE FROM THE STRUCTURE.
4. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.
5. SWITCHES/LIGHTING CONTROL DEVICES SHOWN ADJACENT TO EACH OTHER SHALL BE MOUNTED UNDER A COMMON FACEPLATE, UNLESS NOTED OTHERWISE.
6. LUMINAIRES THAT DO NOT INCLUDE A SWITCH LEG DESIGNATOR SHALL BE CONTROLLED FROM THE SWITCH/LIGHTING CONTROL DEVICE SHOWN WITHIN THE ROOM INCLUDING THE LUMINAIRE.
7. OCCUPANCY AND VACANCY SENSORS SHALL BE LOCATED PER MANUFACTURER'S RECOMMENDED SPACING AND LOCATIONS. SEE SENSOR MANUFACTURER'S SUBMITTED DRAWINGS FOR FINAL LOCATION AND QUANTITY IN EACH SPACE.

KEYED NOTES

1	MOUNT WITH CENTER OF FIXTURE MOUNT 8" 6" ABOVE GRADE REF: HORIZONTAL FEATURE IN AUDITORIUM CURTAIN WALL.
2	LOCATION OF CONTROL PANEL FOR AUDITORIUM LIGHTING AND MOTORIZED SHADES. TOUCH PANEL SHALL SEPARATELY CONTROL: DOWNLIGHTS AUDITORIUM A/B ON/OFF DIM; DOWNLIGHTS BOTH ON/OFF DIM; RING LIGHTS A/B ON/OFF DIM; RING LIGHTS BOTH ON/OFF DIM; WINDOW SHADES ALL UP/DOWN; WINDOW SHADES INDIVIDUAL UP/DOWN.
3	LOCATION OF CONTROL PANEL FOR GALLERY LIGHTING. PANEL SHALL SEPARATELY CONTROL: DOWNLIGHTS ON/OFF DIMMING; TRACK LIGHTS ON/OFF DIM; CENTRAL DOWNLIGHTS ON/OFF DIM; COVE UPLIGHTS ON/OFF DIM; RGBW (RGBW CONTROLS MAY BE SEPARATE PANEL).
4	SWITCH IS OVERRIDE FOR D3 FIXTURES IN BACK. LABEL "GALLERY EXTERIOR REAR LIGHTS"

1 FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"



[90% REVIEWER NOTE: ADDITIONAL APPROVED MANUFACTURERS WILL BE ADDED FOR 100%. ONE VERSION OF EACH TYPE SHOWN NOW.]

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	LAMP	WATTS	NOTES
A8	SUSPENDED LINEAR DIRECT/INDIRECT ALUMINUM HOUSING WHITE	AIRPLANE CABLE SUSPENDED	PINNACLE	EV3	LED, 2000LM DIRECT, 1000 LM INDIRECT, 3500K, 80+ CRI, 10% DIMMING	80 W	
B22	LED 2' X 2' TROFFER STYLE, CLEAR ACRYLIC LENS	RECESSED	SIGNIFY	DAY-BRITE FLUXGRID	LED, 2500LM, 3500K, 80+ CRI, 10% DIMMING	24 W	
B22E	SAME AS B22 WITH EMERGENCY RELAY CONNECTION	RECESSED	SIGNIFY	DAY-BRITE FLUXGRID	LED, 2500LM, 3500K, 80+ CRI, 10% DIMMING	24 W	
B48	LED 4' X 8' TROFFER STYLE LINEAR, CLEAR ACRYLIC LENS	RECESSED	COOPER	NEGRAY	LED, 3000LM, 3500K, 80+ CRI, 10% DIMMING	120 W	
B48	LED 4' X 8' TROFFER STYLE LINEAR, CLEAR ACRYLIC LENS	RECESSED	COOPER	NEGRAY	LED, 4000LM, 3500K, 80+ CRI, 10% DIMMING	120 W	
D1	LED DOWNLIGHT 4" ROUND WHITE HOUSING, DIFFUSE ACRYLIC LENS	RECESSED	COOPER	HALO	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	20 W	
D1E	SAME AS D1 WITH EMERGENCY RELAY CONNECTION	RECESSED	COOPER	HALO	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	20 W	
D1H	LED DOWNLIGHT 4" ROUND WHITE HOUSING, DIFFUSE ACRYLIC LENS	SURFACE	COOPER	HALO	LED, 4000LM, 3500K, 80+ CRI, 10% DIMMING	41 W	
D1HE	SAME AS D1H WITH EMERGENCY RELAY CONNECTION	RECESSED	COOPER	HALO	LED, 4000LM, 3500K, 80+ CRI, 10% DIMMING	41 W	
D1L	LED DOWNLIGHT 4" ROUND WHITE HOUSING, DIFFUSE ACRYLIC LENS	RECESSED	COOPER	HALO	LED, 750LM, 3500K, 80+ CRI, 10% DIMMING	9 W	
D2	LED DOWNLIGHT 3" ROUND WHITE HOUSING, DIFFUSE ACRYLIC LENS	RECESSED	COOPER	HALO	LED, 1000 LM, 80+ CRI, 10% DIMMING, 3500K	11 W	
D3	LED DOWNLIGHT 4" ROUND WHITE HOUSING, OUTDOOR-RATED, WET LOCATION, GLASS LENS	RECESSED	COOPER	HALO	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	20 W	
D4	LED DOWNLIGHT 4" ROUND WHITE HOUSING, SHOWER-RATED, WET LOCATION, GLASS LENS	RECESSED	COOPER	HALO	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	20 W	
EX-1	LED ACRYLIC EDGE-LIT EXIT SIGN	WALL	COOPER	SURE-LITES	LED, RED	10 W	
EX-2	LED ACRYLIC EDGE-LIT EXIT SIGN	CEILING	COOPER	SURE-LITES	LED, RED	10 W	
F1	LED 4' X 4' SURFACE-MOUNT STRIP LIGHT, CLEAR ACRYLIC LENS	SURFACE	COOPER	METALLUX	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	25 W	
F1E	SAME AS F1 WITH EMERGENCY RELAY CONNECTION	SURFACE	COOPER	METALLUX	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	25 W	
F2	LED 4 FOOT LENSED SUSPENDED STRIP LIGHT	SUSPENDED CHAIN HUNG	METALLUX LITHONIA		LED, 3400 LM, 3500K, 80+ CRI, 10% DIMMING	25 W	
F2E	SAME AS F2 WITH EMERGENCY RELAY CONNECTION	SUSPENDED CHAIN HUNG	METALLUX LITHONIA		LED, 3400 LM, 3500K, 80+ CRI, 10% DIMMING	25 W	
GT	LED TRACK HEAD 3" DIAMETER, ADJUSTABLE	SURFACE SPECIAL	SPECTRUM	STC	LED, 2000LM, 3500K, 80+ CRI, 10% DIMMING	12 W	
H1	LED UNDER CABINET LIGHT, 6" ACRYLIC LENS	SURFACE	COOPER	HALO	LED, 1000 LM, 80+ CRI, 3500K	10 W	
J1	LED, WHITE HOUSING, WALL MOUNT, 8" WIDE X 12" LONG, TILT ADJUSTABLE	WALL - SEE E502 DETAIL	AMETRIX	ASTX-MM	LED, 4400 LM, 3500K, 80+ CRI, FORWARD THROW	30 W	
J2	LED 4' X 4' LINEAR, CLEAR ACRYLIC LENS	SURFACE SPECIAL - COVE SEE E502 DETAIL	MARK	MARKLINE	LED, 2800LM, 3500K, 80+ CRI, 10% DIMMING	36 W	
J3	8" TALL CYLINDER WALL-MOUNT DOWNLIGHT	WALL	OCL	VEGA	LED, 750 LM, 3500K, WIDE FLOOD	30 W	
P3	3" DIAMETER LED RING, 4" WIDE ALUMINUM RING, DIRECT/INDIRECT	AIRPLANE CABLE SUSPENDED	SPI	ZYNN	LED, 6000LM, 3500K, 80+ CRI, 10% DIMMING	80 W	
P4	4" DIAMETER LED RING, 4" WIDE ALUMINUM RING, DIRECT/INDIRECT	AIRPLANE CABLE SUSPENDED	SPI	ZYNN	LED, 8000LM, 3500K, 80+ CRI, 10% DIMMING	120 W	

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Project Information

Phase: 90% CONSTRUCTION SET | Date: 2021 MAY 24
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WAKAN TIPI CENTER

Sheet Title

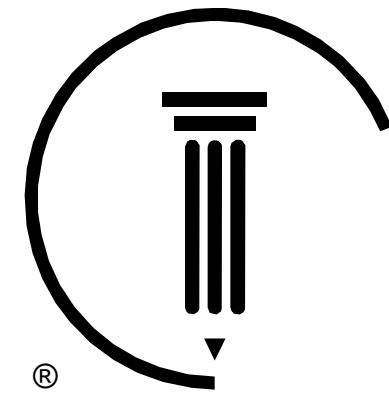
FIRST FLOOR LIGHTING PLAN

Sheet Number

E111

Current Revision

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GENERAL NOTES

1. SEE SHEET E001 AND ONE LINE DIAGRAM ON SHEET E701 FOR ADDITIONAL NOTES THAT MAY APPLY.
2. ALL DEVICES CIRCUITED TO PANEL LPN-2 UNLESS OTHERWISE NOTED.
3. VERIFY ROUGH-IN REQUIREMENTS OF ALL OWNER-FURNISHED EQUIPMENT PRIOR TO ROUGH-IN INSTALLATION.
4. GFCI-PROTECTED RECEPTACLES SHALL BE PROVIDED WHERE THE RECEPTACLE IS LOCATED WITHIN 6' OF A SINK AND IN ANY WET LOCATION.

KEYED NOTES

- | | |
|---|---|
| 1 | PROVIDE 120V CIRCUIT FOR DOOR ELECTRONIC HARDWARE. SEE DETAIL ON SHEET E501. |
| 2 | PROVIDE POWER TO TRANSFORMER FOR LOW-VOLTAGE CONNECTION TO FLUSH AND FAUCET SENSORS. COORDINATE TRANSFORMER LOCATION WITH PLUMBING CONTRACTOR. |
| 3 | PROVIDE POWER TO MOTORIZED PROJECTION SCREEN (PROVIDED BY OTHERS) WITH CONTROL SWITCH ON WALL. |
| 4 | PROVIDE CIRCUIT TO POWER SUPPLY FOR MOTORIZED SHADES (PROVIDED BY OTHERS). THEN CONNECT LOW VOLTAGE WIRING TO SHADE MOTORS. |
| 5 | CIRCUIT TO POWER SUPPLY FOR WINDOW JAGA UNITS (SUPPLIED AND LOW VOLTAGE WIRING TO INDIVIDUAL UNITS BY MECH CONTRACTOR). SEE MECHANICAL SHEETS FOR DETAILS. |
| 6 | FAN-POWERED VAV'S IN CEILING DUCTWORK. SEE MECHANICAL DUCTWORK SHEETS AND SCHEDULES FOR DETAILS. |
| 7 | WIRE SWITCH FOR MOTOR OF DIVIDER WALL (MOTOR AND SWITCH PROVIDED BY OTHERS). |
| 8 | EC TO PROVIDE CONNECTION CABINET AND SLAB FOR PRIMARY POWER DISCONNECT AND METER SOCKET FOR UTILITY METER. MOUNT PHOTOVOLTAIC AC-DISCONNECT ALSO. COORDINATE SPECIFIC LOCATION WITH UTILITY. SEE DIAGRAM ON SHEET E701. |
| 9 | INSTALL RECEPTACLE IN CABINETRY FOR MICROWAVE. COORDINATE HEIGHT WITH CABINETRY - APPROX. 68" TO CENTER. SEE ARCHITECTURAL ELEVATION DETAILS. |

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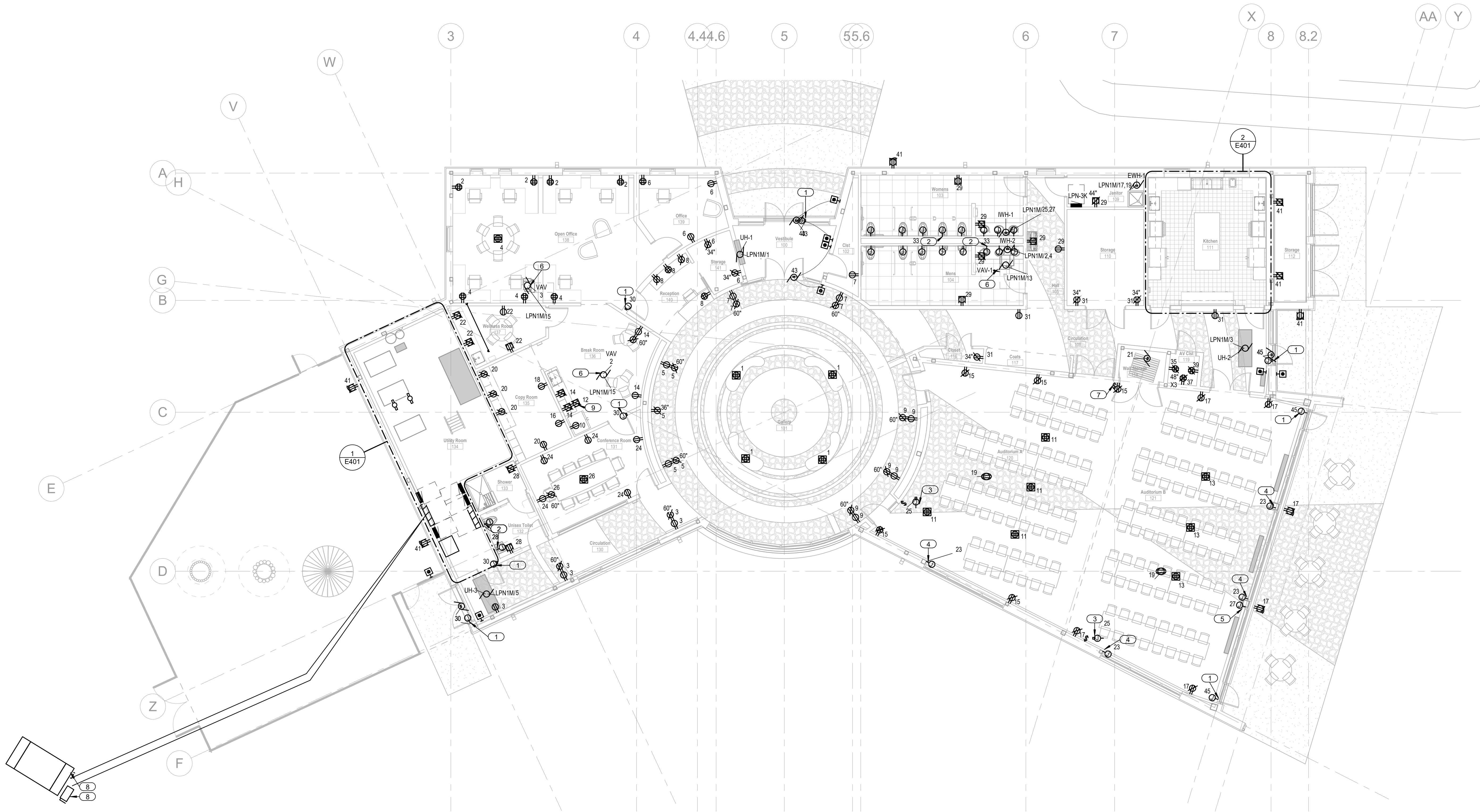
FIRST FLOOR POWER PLAN

Sheet Number

E121

Current Revision

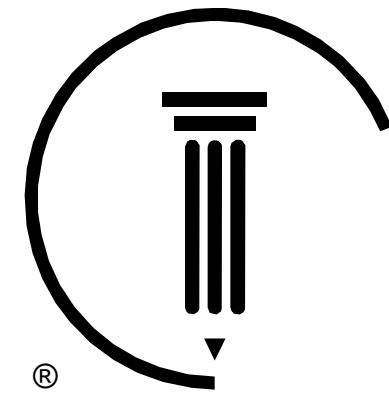
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1 FIRST FLOOR POWER PLAN

1/8" = 1'-0"



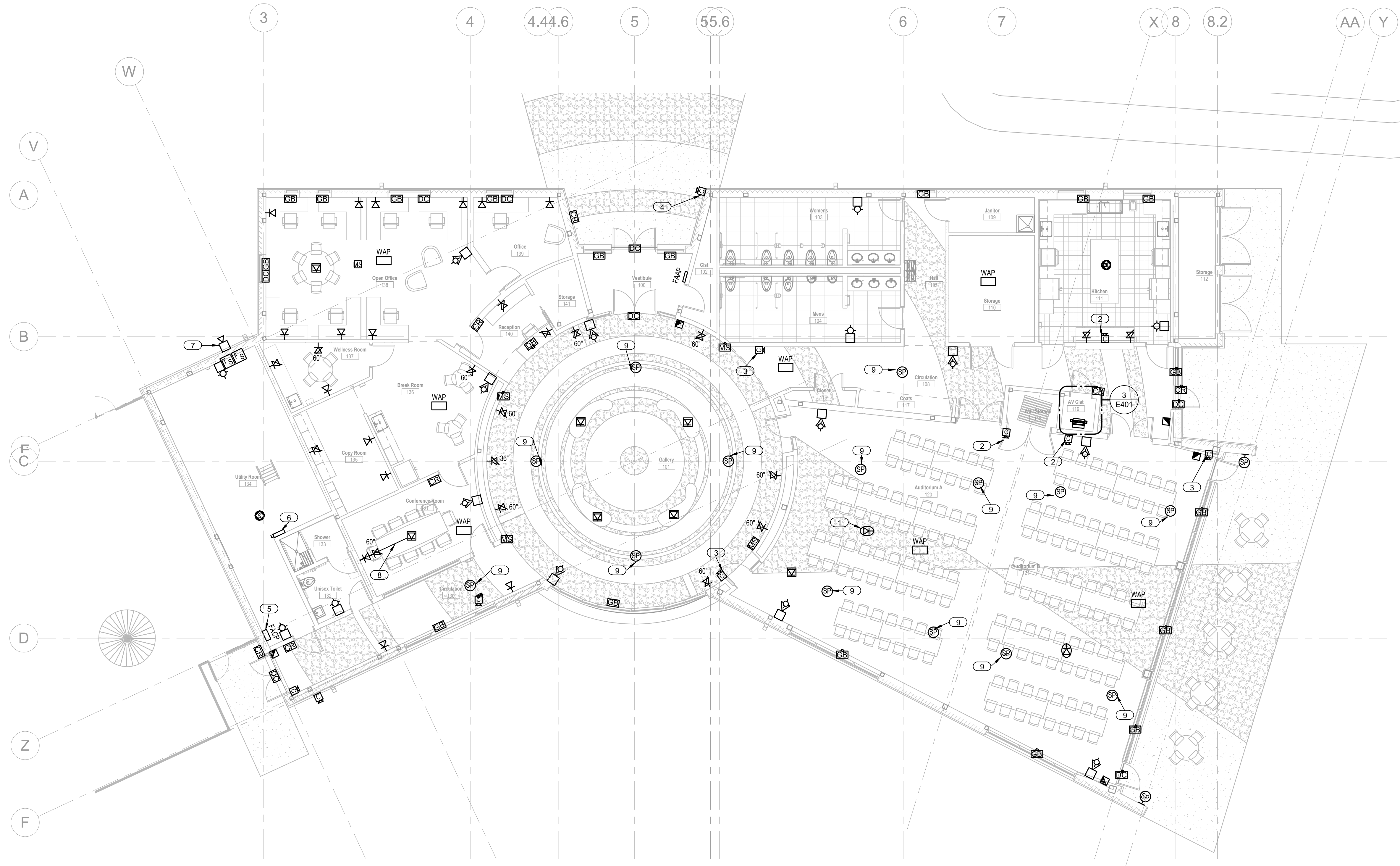


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GENERAL NOTES

1. SEE SHEET E001 FOR ADDITIONAL NOTES THAT MAY APPLY.
2. WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH (1) CAT 6A CABLE CONNECTION.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOX WITH SINGLE GANG MUD RING, DATA OUTLET, AND CAT 6 CABLE FOR INDICATED COMMUNICATIONS DEVICES.
4. CAMERAS AND SECURITY DEVICES SHALL BE PROVIDED WITH (1) CAT 6 CABLE CONNECTION.
5. FIRE ALARM INSTALLER IS RESPONSIBLE TO SELECT STROBE CANDELA BASED ON THE LOCATIONS SHOWN. CANDELA VALUES SHALL BE INCLUDED INT SUBMITTAL DRAWINGS.

KEYED NOTES

- | | |
|---|---|
| 1 | CEILING DATA AND HDMI CONNECTION FOR PENDANT-MOUNTED OVERHEAD PROJECTOR. CONNECT BACK TO AV CONTROL PANEL LOCATION IN CLOSET 119. |
| 2 | SINGLE DATA OUTLET FOR CAMERA FOR LIVE-STREAMING MOUNTED ON WALL. CONNECT BACK TO AV CONTROL PANEL LOCATION IN CLOSET 119. |
| 3 | ALL SECURITY CAMERAS, MOTION DETECTORS, GLASS BREAKS, DOOR STATUS CONTACTS, AND OTHER SECURITY DEVICES CONNECT VIA CAT 6 CABLE TO SECURITY SWITCH IN DATA RACK. |
| 4 | 360 DEGREE CAMERA MOUNTED IN THIS LOCATION. |
| 5 | LOCATION OF FIRE ALARM PANEL AND BACKUP POWER PANELS. |
| 6 | PANEL FOR CARD ACCESS CONTROL. |
| 7 | LOCATE EXTERIOR HORN AND STROBE ABOVE SIAMESE CONNECTION FOR SPRINKLER SYSTEM. |
| 8 | RUN A 1" CONDUIT FROM THE FLOOR BOX TO THE WALL AND UP INSIDE THE WALL TO 60" AFF FOR HDMI CABLE CONNECTION BETWEEN MONITOR AND TABLE. |
| 9 | SPEAKER LOCATIONS FOR REFERENCE/COORDINATION ONLY. SPEAKERS PROVIDED BY OTHERS. |

1 FIRST FLOOR FIRE ALARM & COMMUNICATION SYSTEMS PLAN

1/8" = 1'-0"



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WAKAN TIPI CENTER

Sheet Title

FIRST FLOOR SYSTEMS PLAN

Sheet Number

E131

Current Revision

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GENERAL NOTES	
1.	SEE SHEET E001 FOR OTHER GENERAL NOTES THAT MAY APPLY.
2.	GENERAL BASIS OF DESIGN FOR PHOTOVOLTAIC PANEL ARRAY INDICATED. ACTUAL FINAL LAYOUT TO BE PROVIDED BY PHOTOVOLTAIC PROVIDER LAYOUT DRAWINGS.
3.	-

KEYED NOTES

1	MOUNT DC DISCONNECT AND DC STRING COMBINERS ON UNISTRUT ALONG WALL IN THIS LOCATION.
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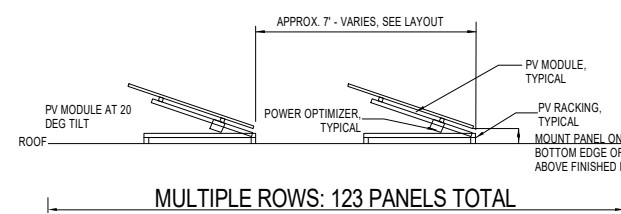
1 ELECTRICAL ROOF PLAN

1/8" = 1'-0"



3 PHOTOVOLTAIC PANEL SECTION

1/8" = 1'-0"



2 PHOTOVOLTAIC BASIS OF DESIGN

1/8" = 1'-0"

GENERAL NOTES

- A. INSTALLING CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL EQUIPMENT INSTALLED WITHIN THE COMPLETED SYSTEM. SUBMITTALS SHALL INCLUDE PHYSICAL LAYOUT DRAWINGS AND INTERCONNECTION DIAGRAMS.
- B. THE PHOTOVOLT (PV) SYSTEM SHALL INCLUDE RAPID SHUTDOWN MEETING THE 50V NEC REQUIREMENTS AT A MINIMUM WITHIN THE NEC LABELING SHALL INCLUDE A PLACARD AT THE ELECTRICAL SERVICE IDENTIFYING THE LOCATION OF INVERTERS AND RAPID SHUTDOWN DEVICES - SEE SHEET E120 FOR DISCONNECT LOCATION.
- D. COORDINATE INSTALLATION OF THE PV SYSTEM WITH THE UTILITY. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE INSPECTIONS AND ADDITIONAL REQUIREMENTS THE UTILITY MAY HAVE FOR AN INTERACTIVE SYSTEM. THE OWNER SHALL PAY ANY PERMIT COSTS.
- E. DC STRINGS AND INVERTED AC POWER SHALL EACH INCLUDE DISCONNECTING MEANS AND FUSE PROTECTION.
- F. SEE ARCHITECTURAL AND ELECTRICAL ROOF PLANS AND DETAILS FOR FURTHER INFORMATION ON PHYSICAL LAYOUT.

BASIS OF PV SYSTEM DESIGN

MODELS. SEE SPECIFICATION FOR MANUFACTURERS & MODEL
 MAX POWER: 250-300W
 OPEN CKT VOLTAGE: 40 V MAX
 SHORT CIRCUIT CURRENT: 10-23A MAX
 MAXIMUM POWER POINT CURRENT: 9.57A
 DIMENSIONS: 3" X 6" X 9.5" X 1.5"
 INPUT
 INVERTER: SOLARDEGE THREE-PHASE INVERTER 480V (QTY 4)
 MAX DC POWER: 12.15kW
 MAX INPUT VOLTAGE DC TO DC: 500VDC
 NOMINAL INPUT VOLTAGE DC TO DC: 400VDC
 MAXIMUM INPUT CURRENT: 26.5ADC
 OUTPUT
 RATED AC OUTPUT: 50 kVA
 AC OUTPUT VOLTAGE (L-N, L-L, L-0): 480V
 AC FREQUENCY (NOMINAL): 60 HZ
 MAX CONTINUOUS OUTPUT CURRENT (PER PHASE): 25
 AMP (SHORT CIRCUIT AND OVERCURRENT COMMUNICATES WITH
 OPTIMIZERS.
 MPPT TRACKING OPTIMIZER: SOLARDEGE P320
 MPPT OPERATING RANGE: 8-48VDC
 MAXIMUM DC INPUT CURRENT: 13.75ADC
 MAXIMUM OUTPUT CURRENT: 25A
 MAX OUTPUT VOLTAGE: 60VDC
 MOUNTING: ROOF MOUNT FOR ANGLED MOUNTING. SEE
 SPECIFICATION.

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Project Information

Phase: 90% CONSTRUCTION SET Date: 2021 MAY 24

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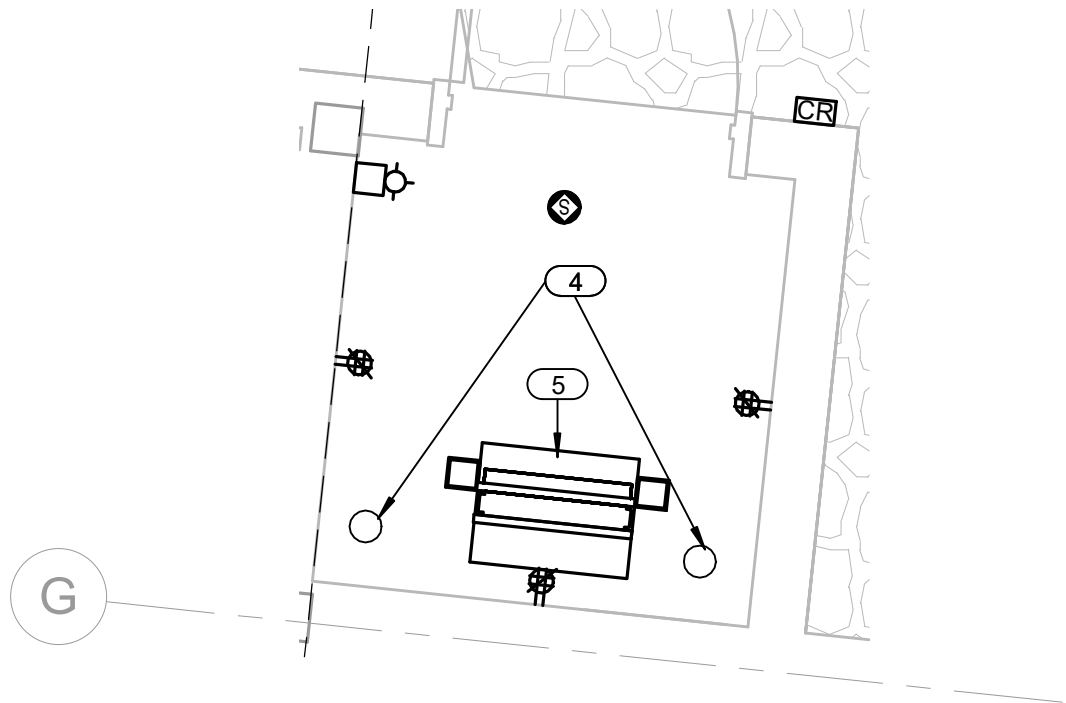
ROOF POWER PLAN

Sheet Number Current Revision

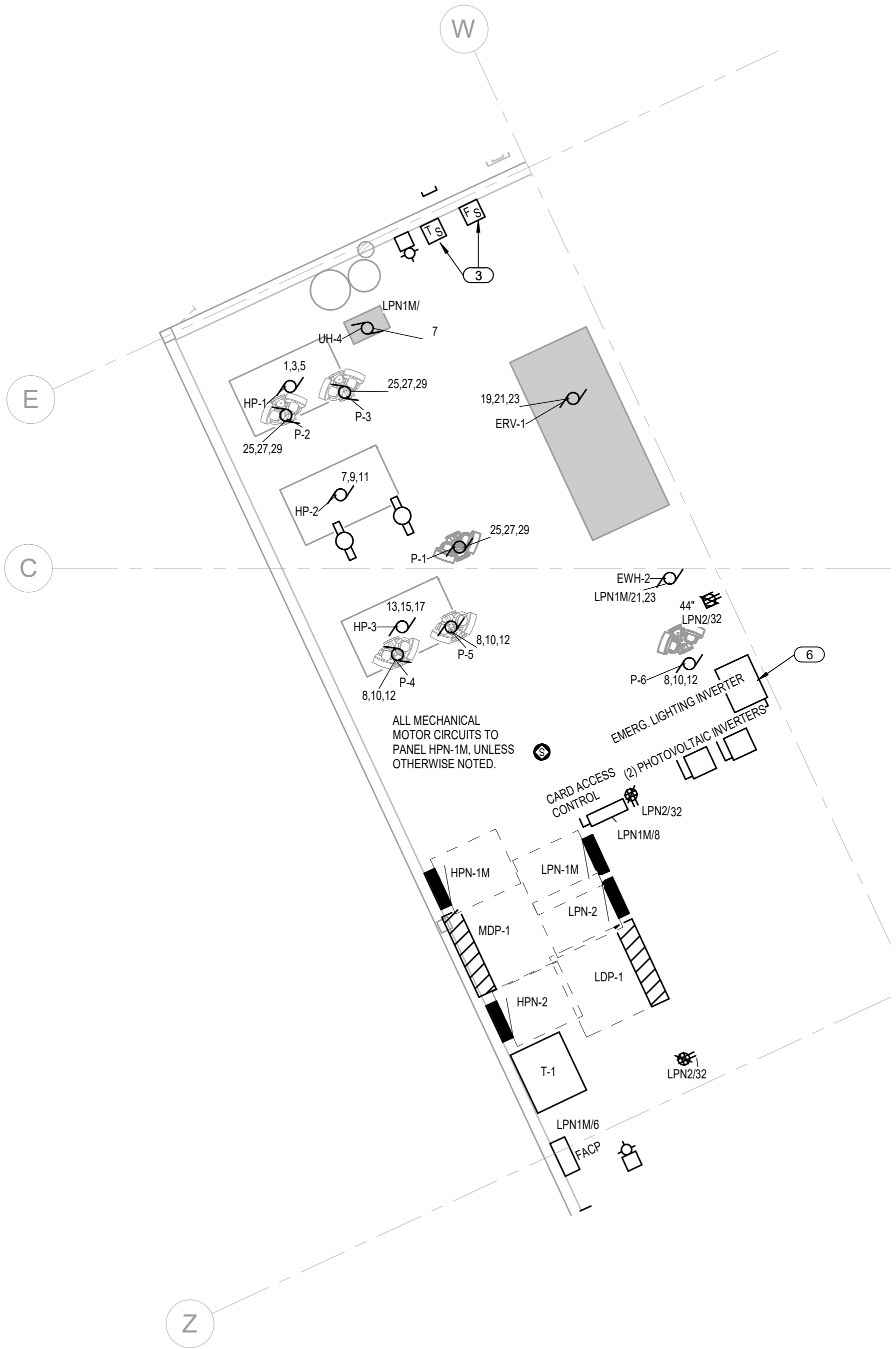
E201

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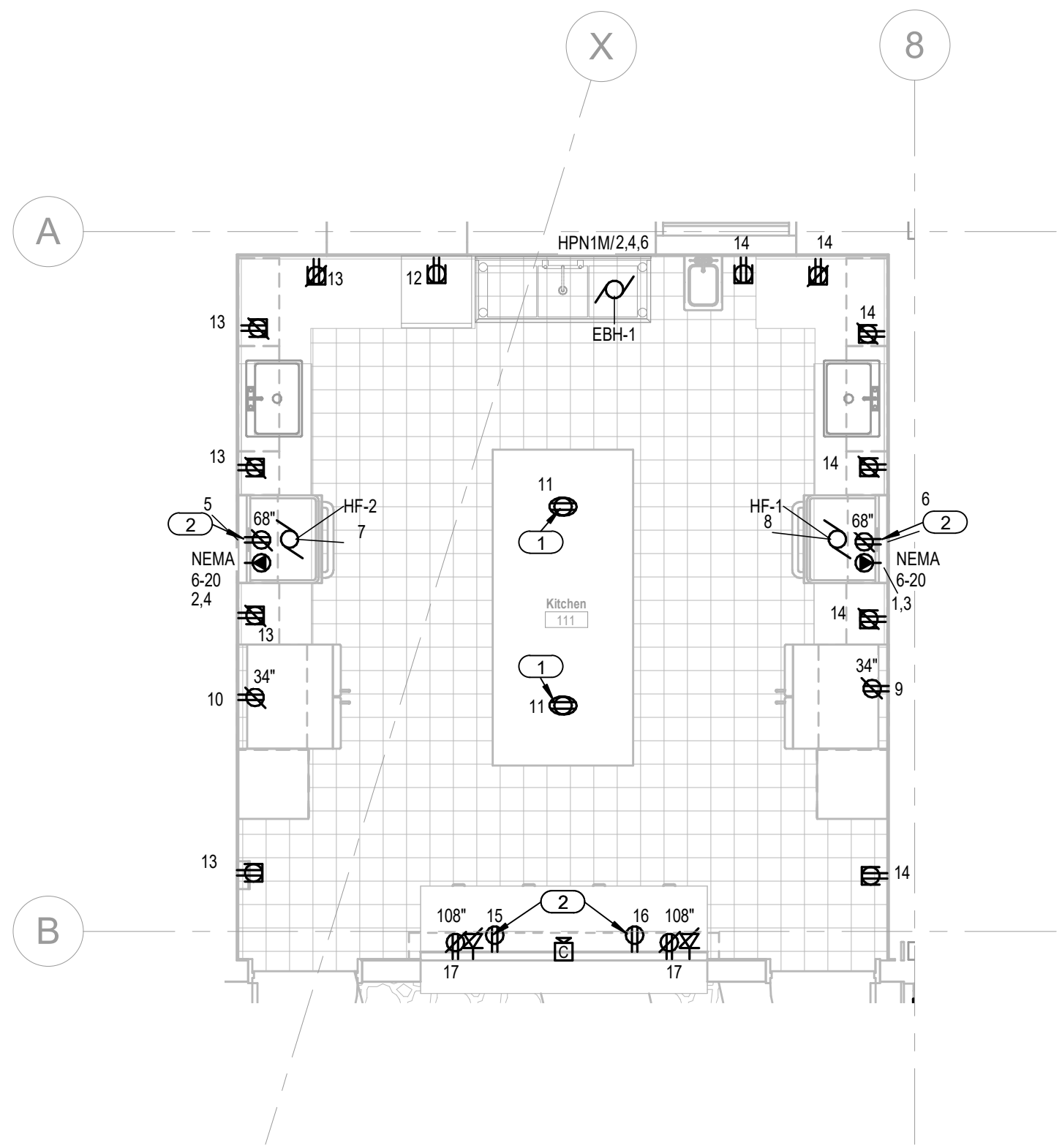
KEYED NOTES	
1	PROVIDE CEILING-MOUNTED RECEPTACLE AND MOUNT REEL DROP POWER CORD WITH TRIPLE TAP OUTLET (WHITE COLOR).
2	INSTALL RECEPTACLE IN CABINETS FOR MICROWAVE. COORDINATE HEIGHT WITH CABINETS - APPROX. 68" TO CENTER. SEE ARCHITECTURAL ELEVATION DETAILS.
3	PROVIDE CIRCUIT AND RELAYS FOR TAMPER AND FLOW SWITCHES ON FIRE SUPPRESSION SYSTEM.
4	LOCATION OF MPOF. PROVIDE 4" C. INTO ROOM CONNECTED TO 4" BURIED C. TO QUARTZITE HANDHOLE AT PERIMETER OF PROPERTY - SEE SHEET E101. PROVIDE 4" C TO ROOF PENETRATION.
5	LOCATION OF DATA RACK, SWITCHES, SECURITY, AND AV HEAD-END EQUIPMENT. ALL LOW VOLTAGE RUNS AND CONTROL WIRING FOR SPEAKERS AND VIDEO EQUIPMENT CONNECT TO THIS ROOM.
6	LOCATION OF 2000W INVERTER FOR EMERGENCY LIGHT BACKUP POWER. EMERGENCY LIGHTS TO CONNECT TO BACKUP CIRCUIT VIA UL924 RELAY.



3 A/V CLOSET 109 ENLARGED VIEW
1/2" = 1'-0"



1 UTILITY ROOM 134 ENLARGED VIEW
1/4" = 1'-0"



2 KITCHEN 111 PLAN - ENLARGED VIEW
1/4" = 1'-0"

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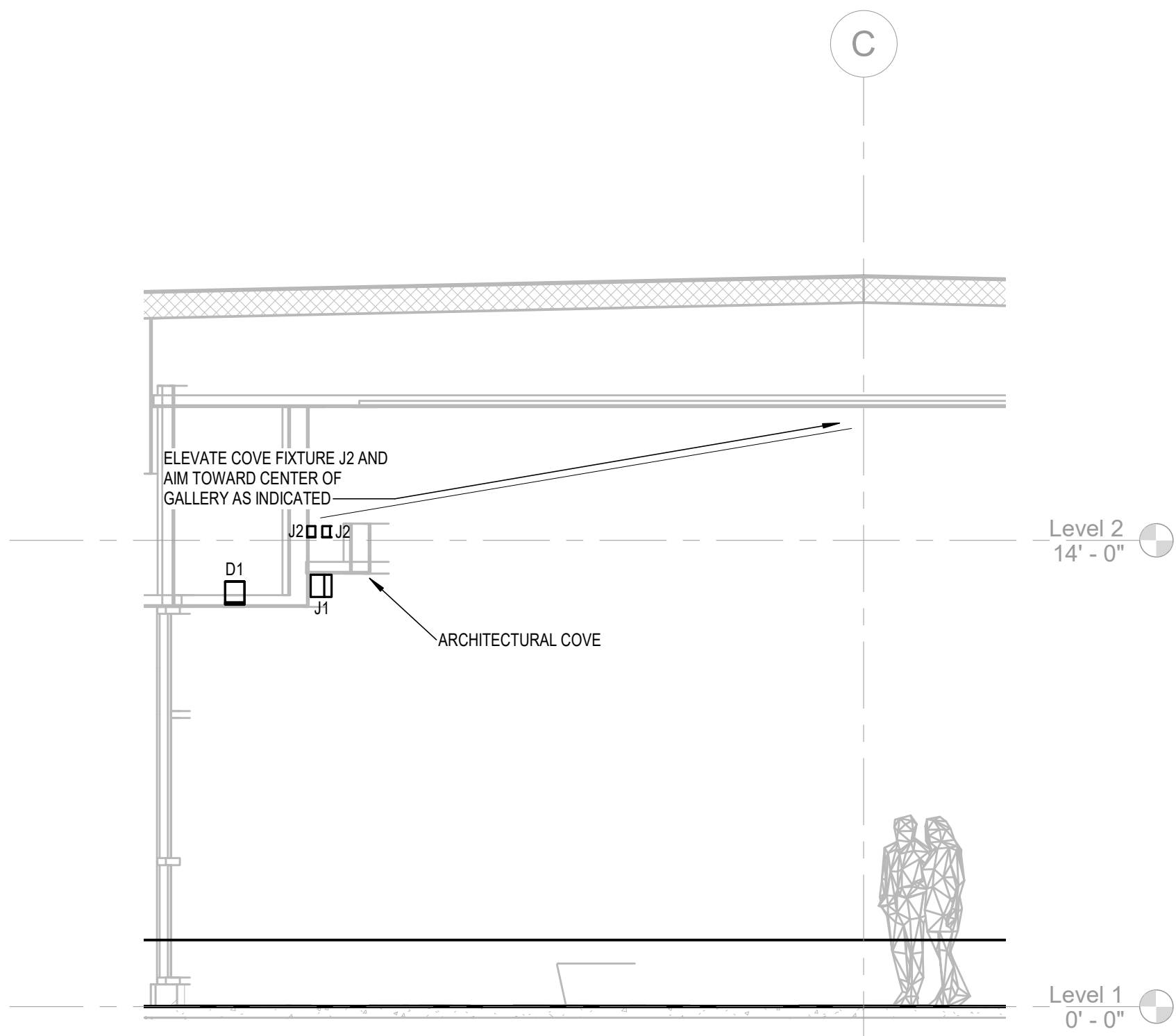
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WAKAN TIPI CENTER

Sheet Title
ELECTRICAL ENLARGED PLANS





1 COVE LIGHTING DETAIL

1/4" = 1'-0"

FIRE ALARM SEQUENCE OF EVENTS MATRIX																	
X	INDICATES ACTION WILL CAUSE SPECIFIC RESULTS																
	INDICATES ACTION WILL NOT CAUSE SPECIFIC RESULTS																
ACTIONS				DEVICE ACTIVATION													
				ACTIVATION OF ANY MANUAL PULL STATION (IN ZONE OF ALARM)	ACTIVATION OF ANY AREA SMOKE SENSOR (IN ZONE OF ALARM)	ACTIVATION OF FIRE SPRINKLER WATER FLOW SWITCH (IN ZONE OF ALARM)	ACTIVATION OF FIRE SPRINKLER TAMPER SWITCH	POWER SUPPLY PROBLEMS (PRIMARY, TROUBLE AND SECONDARY)	OPEN WIRE OR GROUND IN ANY SUPERVISED CIRCUIT	ACTIVATION OF AUDIO/VISUAL BYPASS SWITCH	ACTIVATION OF AHU SHUTDOWN BYPASS SWITCH	ACTIVATION OF SMOKE DAMPER BYPASS SWITCH	LOSS OF PRIMARY POWER	ACTIVATION OF ALARM SILENCE SWITCH	ACTIVATION OF CARBON MONOXIDE DETECTOR	ACTIVATION OF GUESTROOM SMOKE DETECTOR	
SYSTEM RESPONSE				A	B	C	D	E	F	G	H	I	J	K	L	M	
1	ACTIVATE ZONE COMBINATION SPEAKER/STROBES & STROBES			X	X	X											1
2	DE-ENERGIZE DOOR HOLD OPEN DEVICES			X	X	X											2
3	SHUTDOWN ASSOCIATED MECHANICAL UNIT/DAMPERS			X	X	X											3
4	ACTIVATE SYSTEM TROUBLE								X				X				4
5	ACTIVATE SYSTEM SUPERVISORY									X	X	X			X	X	5
6	RECORD EVENTS IN THE SYSTEM MEMORY			X	X	X	X	X	X	X	X	X	X				6
7	REPORT ALARM SIGNAL TO MONITORING SERVICE			X	X	X											7
8	REPORT TROUBLE SIGNAL TO MONITORING SERVICE						X	X	X				X				8
9	REPORT SUPERVISORY SIGNAL TO MONITORING SERVICE						X			X	X	X		X			9
10	DISABLE AUDIO/VISUAL APPLIANCES									X				X			10
11	DISABLE AHU SHUTDOWN MODULES			X	X	X					X						11
12	ACTIVATE DEVICE SOUNDER BASE														X	X	12
SYSTEM RESPONSE				A	B	C	D	E	F	G	H	I	J	K	L	M	

LOW VOLTAGE RELAY PANEL:		RP-INT	
LOCATION: UTILITY ROOM 134			
RELAY #	CIRCUIT #	CONTROL SWITCHES	AREA CONTROLLED
r1	HPN-2/2	TIMECLOCK, 0-10V OUTPUT, PHOTOCELL OVERRIDE	CIRCULATION 130
r2	HPN-2/2	TIMECLOCK, 0-10 V OUT	CORRIDORS, VESTIBULE
r3	HPN-2/2	TIMECLOCK, 0-10 V OUT, SWITCH OVERRIDE	GALLERY LOW CEILING
r4	HPN-2/5	TIMECLOCK, 0-10 V OUT, SWITCH OVERRIDE	GALLERY PERIMETER
r5	HPN-2/2	TIMECLOCK, 0-10 V OUT, PHOTOCELL OVERRIDE	CIRCULATION 108
r6	HPN-2/8	TIMECLOCK, 0-10 V OUT, ROOF PHOTOCELL	FRONT CANOPY, PATIO OUTDOOR
r7	HPN-2/10	TIMECLOCK, 0-10 V OUT, ROOF PHOTOCELL	SITE BOLLARDS
r8	HPN-2/9	TIMECLOCK, 0-10 V OUT, ROOF PHOTOCELL	SITE POLE LIGHTS
r9			SPARE
r10			SPARE
r11			SPARE
r12			SPARE

NOTES:

1.

PROVIDE WITH INTEGRAL ASTRONOMICAL TIME CLOCK AND CONTROL MODULE

2.

PROVIDE WITH PHOTOCELL INPUT

3.

PROVIDE RELAYS WITH 0-10V DIMMING.

4.

PANEL SUPPLIED WITH CAT 6 CONNECTION FOR CAPABILITY TO TIE TO BUILDING AUTOMATION SYSTEM, BUT NO CONNECTION MADE.

5.

SEE LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR CONTROL SETUP INFORMATION.

6.

PROVIDE SPARE RELAYS FOR 277 VOLT LOADS. ALL RELAYS ARE 277V.

2 Low Voltage Relay Panel

12" = 1'-0"

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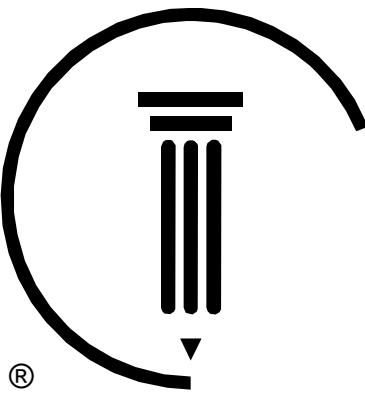
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Project Information		
Phase: 90% CONSTRUCTION SET		Date: 2021 MAY 24
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WAKAN TIPI CENTER

Sheet Title
ELECTRICAL DETAILS

MOTOR SCHEDULE																			
EQUIP NAME	EQUIP NO.	EQUIPMENT DESCRIPTION	LOCATION	Voltage	Phase	HP	FLA	MCA	OCOP SIZE	KVA	CONDUIT & WIRE SIZE	STARTER BY	STARTER TYPE	DISCONNECT BY	DISCONNECT TYPE	PANEL	CIRCUIT NUMBER	NOTE	
EBH	1	ELECTRIC BOOSTER HEATER	KITCHEN	480 V	3		32.5			27000 VA	3/4"Ø, (3) #8, (1) #10 G			ELECTRICAL	MRS	HPN-1M	2,4,6		
EF	1	EXHAUST FAN	ROOF ABOVE 110	120 V	1	1/4	2.85			325 VA	3/4"Ø, (2) #12, (1) #12 G			ELECTRICAL	MRS	LPN-1M	9		
EF	2	EXHAUST FAN	ROOF ABOVE 132	120 V	1	1/4	2.85			325 VA	3/4"Ø, (2) #12, (1) #12 G			ELECTRICAL	MRS	LPN-1M	11		
ERV	1	ERV	UTILITY ROOM 134	480 V	3	4 x 2	10			8300 VA	3/4"Ø, (3) #12, (1) #12 G			MFR		HPN-1M	19,21,23		
EWH	1	WATER HEATER	JANITOR 109	208 V	1		28.8			6000 VA				ELECTRICAL	MRS	LPN-1M	17,19		
EWH	2	WATER HEATER	UTILITY ROOM 134	208 V	1		28.8			6000 VA	3/4"Ø, (3) #10, (1) #10 G			ELECTRICAL	MRS	LPN-1M	21,23		
HF	1	HOOD FAN		120 V	1									ELECTRICAL	MRS	LPN-3K	8		
HF	2	HOOD FAN	KITCHEN	120 V	1									ELECTRICAL	MRS	LPN-3K	7		
HP	1	HEAT PUMP	UTILITY ROOM 134	480 V	3		15.6			12425 VA	3/4"Ø, (3) #12, (1) #12 G					HPN-1M	1,3,5		
HP	2	HEAT PUMP	UTILITY ROOM 134	480 V	3		15.6			12425 VA	3/4"Ø, (3) #12, (1) #12 G					HPN-1M	7,9,11		
HP	3	HEAT PUMP	UTILITY ROOM 134	480 V	3		15.6			12425 VA	3/4"Ø, (3) #12, (1) #12 G					HPN-1M	13,15,17		
IWH	1	INSTANTANEOUS WATER HEATER	WOMENS 103	208 V	1		39.9		50	8300 VA	1"Ø, (3) #6, (1) #10G			ELECTRICAL	MRS	LPN-1M	25,27		
IWH	2	INSTANTANEOUS WATER HEATER	MENS 104	208 V	1		39.9			8300 VA	1"Ø, (3) #6, (1) #10G			ELECTRICAL	MRS	LPN-1M	24		
LS	1	LIFT STATION PUMP	SITE	208 V	1	3.0	12			2500 VA	3/4"Ø, (2) #12, (1) #12 G			MFR	CONTROL PANEL	LPN-1M	10,12		
LS	2	LIFT STATION PUMP	SITE	208 V	1	3.0	12			2500 VA	3/4"Ø, (3) #12, (1) #12 G			MFR	CONTROL PANEL	LPN-1M	14,16		
P	1	GLYCOL PUMP	UTILITY ROOM 134	480 V	3	1	1.65			1300 VA	3/4"Ø, (3) #12, (1) #12 G			ELECTRICAL	MRS	HPN-1M	25,27,29		
P	2	GLYCOL PUMP	UTILITY ROOM 134	480 V	3	2	2.65			2100 VA	3/4"Ø, (3) #12, (1) #12 G			ELECTRICAL	MRS	HPN-1M	25,27,29		
P	3	GLYCOL PUMP	UTILITY ROOM 134	480 V	3	2	2.65			2100 VA	3/4"Ø, (3) #12, (1) #12 G			ELECTRICAL	MRS	HPN-1M	25,27,29		
P	4	GLYCOL PUMP	UTILITY ROOM 134	480 V	3	2	2.65			2100 VA	3/4"Ø, (3) #12, (1) #12 G			ELECTRICAL	MRS	HPN-1M	8,10,12		
P	5	GLYCOL PUMP	UTILITY ROOM 134	480 V	3	3	3.8			3000 VA	3/4"Ø, (3) #12, (1) #12 G			ELECTRICAL	MRS	HPN-1M	8,10,12		
P	6	GLYCOL PUMP	UTILITY ROOM 134	480 V	3									ELECTRICAL	MRS	HPN-1M	8,10,12		
UH	1	UNIT HEATER	VESTIBULE	120 V	1		6.8			780 VA	3/4"Ø, (2) #12, (1) #12 G			ELECTRICAL	MRS	LPN-1M	1		
UH	2	UNIT HEATER	CIRCULATION 108	120 V	1		4.2			480 VA	3/4"Ø, (2) #12, (1) #12 G			ELECTRICAL	MRS	LPN-1M	3		
UH	3	UNIT HEATER	CORRIDOR #	120 V	1		4.2			480 VA	3/4"Ø, (2) #12, (1) #12 G			ELECTRICAL	MRS	LPN-1M	5		
UH	4	UNIT HEATER	UTILITY ROOM 134	120 V	1		0.72			86 VA	3/4"Ø, (2) #12, (1) #12 G			ELECTRICAL	MRS	LPN-1M	7		
VAV	1	VAV	MENS 104	120 V	1		11.67			1400 VA	3/4"Ø, (2) #12, (1) #12 G	MFR		MFR		LPN-1M	13		
VAV	2	VAV	BREAK ROOM 136	120 V	1		2.2			250 VA	3/4"Ø, (2) #12, (1) #12 G	MFR		MFR		LPN-1M	15		
VAV	3	VAV	OPEN OFFICE 138	120 V	1		3.33			400 VA	3/4"Ø, (2) #12, (1) #12 G	MFR		MFR		LPN-1M	15		



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Project Information

Phase: 90% CONSTRUCTION SET	Date:	2021 MAY 24
Project No.:	2020-61082	PIC / AIC

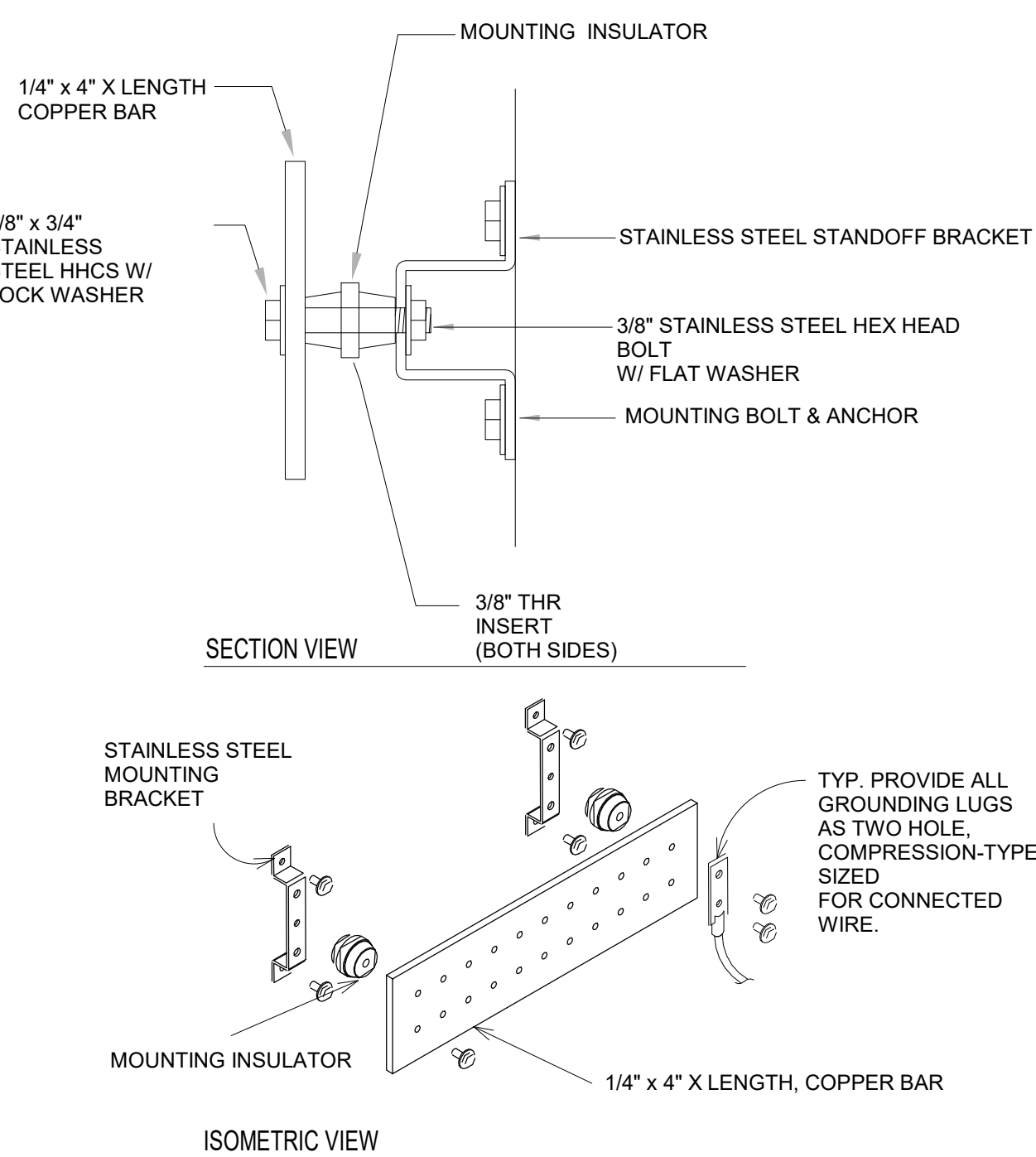
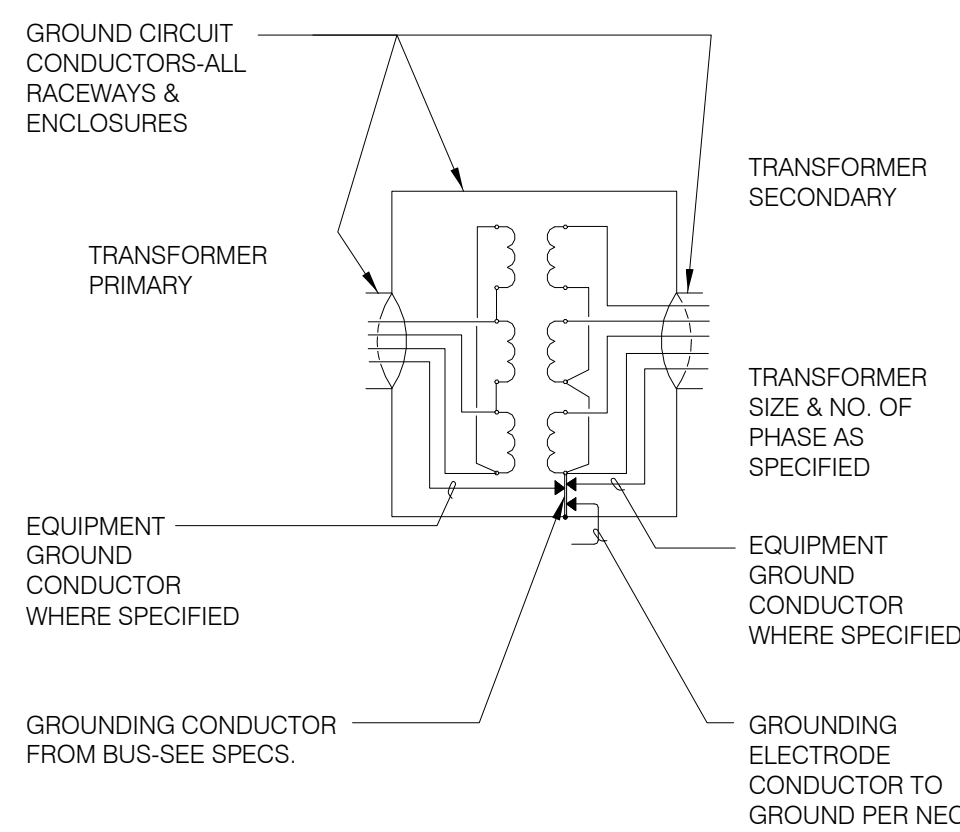
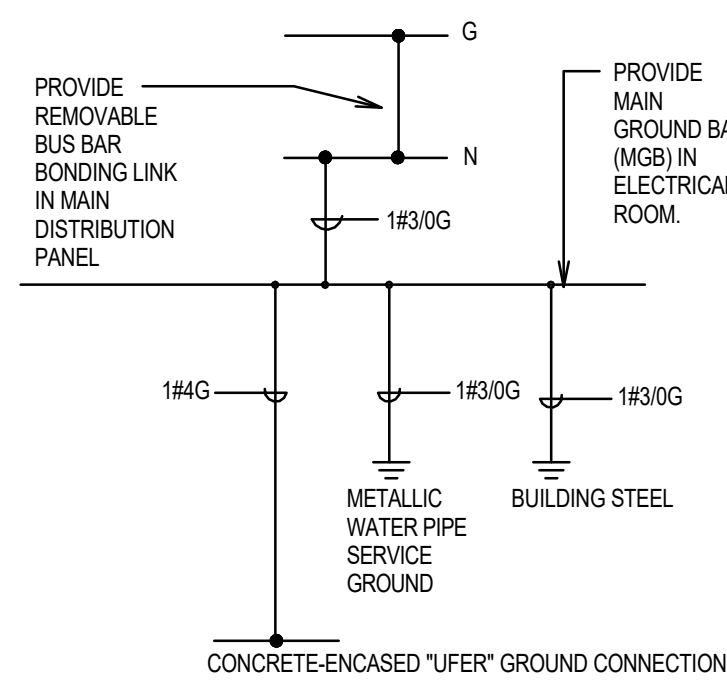
WAKAN TIPI CENTER

Sheet Title
ELECTRICAL SCHEDULES

Sheet Number	Current Revision
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E601

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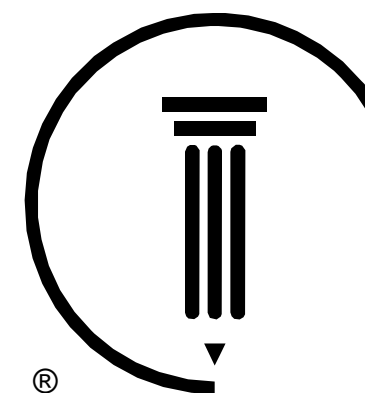
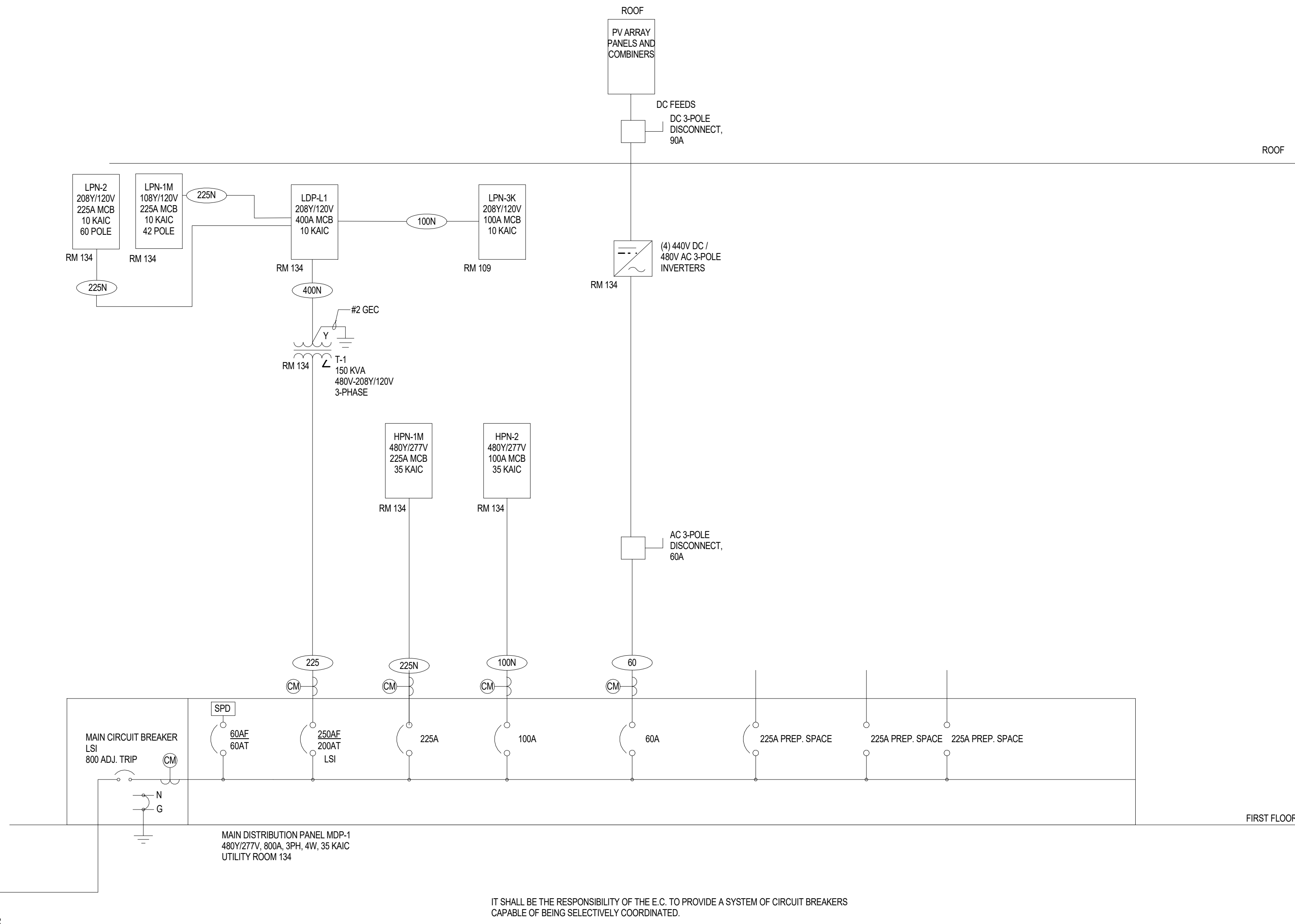


FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(2) 2 1/2"	3 SETS OF 300 kcmil	#10
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#10
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#10
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil

NOTES:

- FEEDER SIZES ARE ON THE PLAN WHERE 80 REFERS TO A 80A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
- SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
- CONDUITS ARE SIZED PER NEC TABLES FOR THIRTYTHINW AND MAY BE UP-SIZED FOR EASE OF PULLING OR DOWN-SIZED AS ALLOWED PER NEC FOR CONDUIT TYPES BEING INSTALLED.
- ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.



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WAKAN TIPI CENTER

Sheet Title
ONE LINE RISER DIAGRAM &
GROUNDING DETAILS

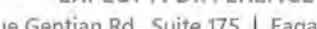
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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC Blowers	650 VA	100.00%	650 VA	
HVAC Heating	1826 VA	100.00%	1826 VA	Total Conn. Load: 34548 VA
Kitchen Equipment - Non-Dwelling Unit	0 VA	0.6667%	0 VA	Total Est. Demand: 65970 VA
Motor	28350 VA	107.32%	30425 VA	Total Conn. Current: 235 A
Other	600 VA	100.00%	600 VA	Total Est. Demand Current: 190 A
Receptacle	46844 VA	60.67%	28422 VA	Non-Coincident... 0 A
HVAC	2050 VA	100.00%	2050 VA	Total Est. Demand - NC: 190 A
Heating	8600 VA	100.00%	8600 VA	

Total Amps: 0 A			
Load Classification	Connected Load	Demand Factor	Estimated Demand
Lighting	6557 VA	125.00%	8196 VA
			Total Conn. Load: 6557 VA
			Total Est. Demand: 8196 VA
			Total Conn. Current: 0 A
			Total Est. Demand Current: 10 A
			Non-Coincident... 0 A
			Total Est. Demand - NC: 10 A

15	AUDITORIUM A WALL RECEP	20	A	1	1.1	0.7	1.1	0.2	1	20	A	COPY RM 135 COPIER	16
17	AUDITORIUM B & PATIO WALL RECEP	20	A	1					1.1	0.2	1	COPY RM 135 COPIER	18
19	AUDITORIUM PROJECTOR RECEP	20	A	1	0.0	0.7					1	COPY RM 135 RECEP	20
21	AUDITORIUM PARTITION WALL MOTOR	20	A	1			0.8	0.7			1	WELLNESS RM 137 RECEP	22
23	AUDITORIUM WINDOW SHADES	20	A	1					0.7	0.9	1	CONF RM 131 RECEP	24
27	AUDITORIUM SCREEN MOTORS	20	A	1	0.4	0.5					1	CONF 131 FLOOR & MONITOR RECEP	28
27	AUDITORIUM B JAGA UNITS	20	A	1			0.2	0.7			1	TOILET 132/133A RECEP & SENSORS	28
29	WOMEN'S/MEN'S/HALL/JANITOR RECEP	20	A	1					1.3	0.2	1	W DOOR OPENER & DOOR LOCKS	30
31	CIRCULATION CLOSET, STORAGE...	20	A	1	0.9	0.9					1	UTILITY 134 RECEP	32

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Loads
HVAC Blowers	850 VA	100.00%	850 VA	Total Conn. Load: 173235 VA Total Est. Demand: 156994 VA
HVAC Heating	1826 VA	100.00%	1826 VA	
Kitchen Equipment - Non-Dwelling Unit	27000 VA	90.00%	24300 VA	Total Conn. Current: 208 A Total Est. Demand Current: 188 A
Lighting	6557 VA	125.00%	8196 VA	
Motor	28350 VA	107.32%	30425 VA	Total Est. Demand Current: 0 A Non-Coincident...: 18 A
Other	600 VA	100.00%	600 VA	
Receptacle	46844 VA	60.67%	28422 VA	Total Est. Demand - NC: 188 A
HVAC	58225 VA	100.00%	58225 VA	

	Total Amps:	100 A	100 A	100 A
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Kitchen Equipment - Non-Dwelling Unit	27000 VA	100.00%	27000 VA	
HVAC	56175 VA	100.00%	56175 VA	Total Conn. Load: 83175 VA
				Total Est. Demand: 83175 VA
				Total Conn. Current: 100 A
				Total Est. Demand Current: 100 A
				Non-Coincident... 0 A
				Total Est. Demand - NC: 100 A

15	VAV-2 & VAV-3 - RM 136,138	20 A	1	1.4	1.5	0.7	1.3			2	20 A	18	SPARE
16	EW-1 - JANITOR 109	40 A	2					3.0	0.0	1	20 A	18	SPARE
17	---	---	---	3.0	0.0					1	20 A	18	SPARE
21	EW-2 - UTILITY 134	40 A	2			3.0	0.0			1	20 A	22	SPARE
23	---	---	---					3.0	0.0	1	20 A	24	SPARE
24	IWH-1 - WOMENS 103	50 A	2	4.2	0.0					1	20 A	26	SPARE
25	---	---	---			4.2	0.0			1	20 A	28	SPARE
29	Spare	20 A	1					0.0	0.0	1	20 A	30	SPARE
Total Load:				14.8 kVA	15.3 kVA			8.7 kVA					

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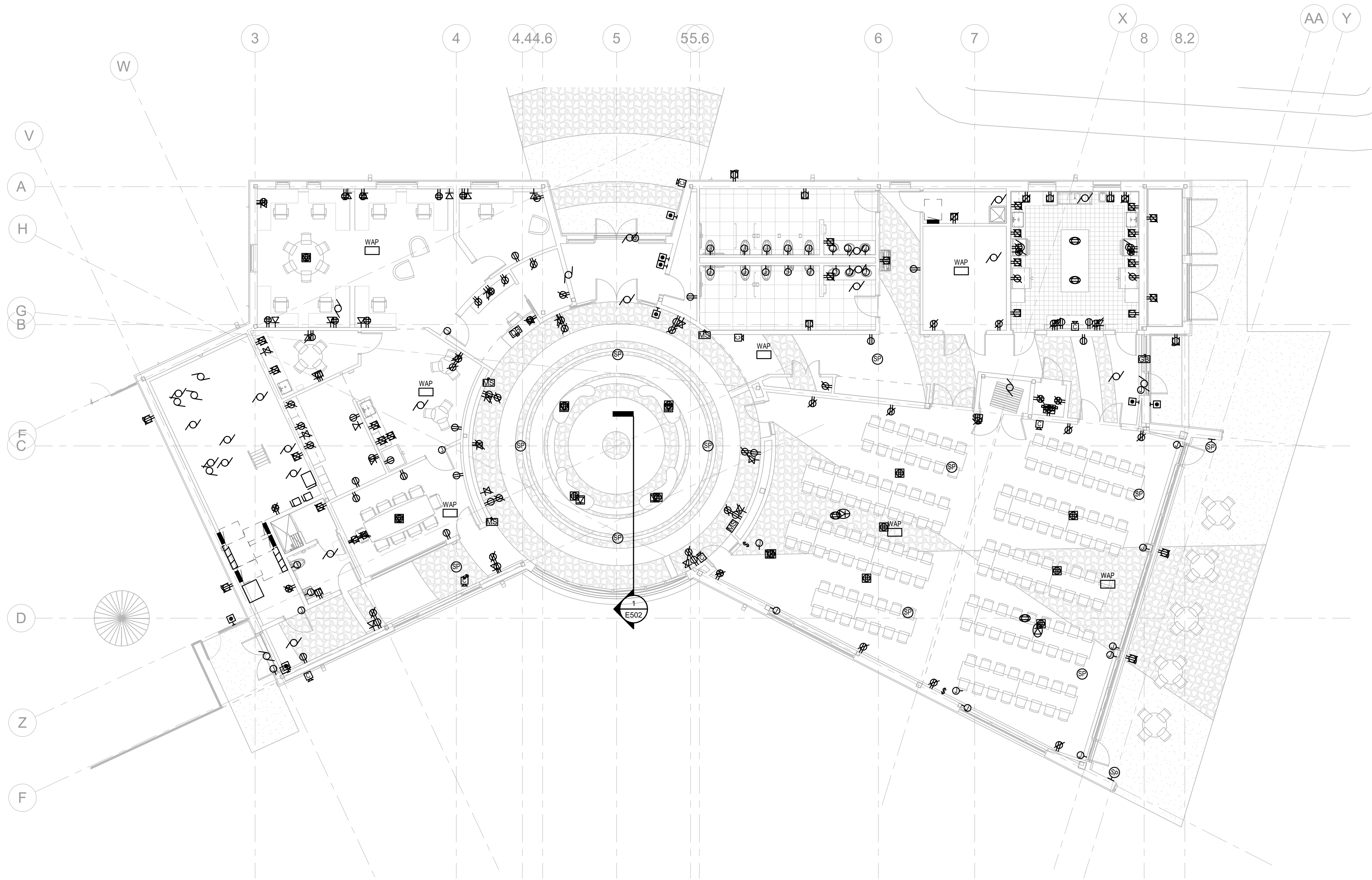


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1 POWER AND SYSTEMS COORDINATION PLAN

1/8" = 1'-0"



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WAKAN TIPI CENTER

Sheet Title

POWER AND SYSTEMS
COORDINATION

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EXHIBIT F
INITIAL PROGRAM REPORT



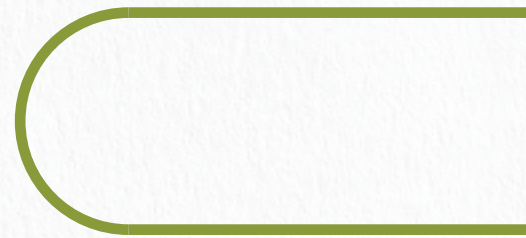
LOWER PHALEN CREEK PROJECT



2019 ANNUAL REPORT



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LETTER FROM THE EXECUTIVE DIRECTOR

Friends and relatives,

I am honored to be writing this note to introduce you, dear reader, to our first ever annual report! We have been making huge strides as an organization and 2019 was a culminating year where so many years of hard work and dedication paid off on multiple fronts. From our daylighting project with Phalen Creek to the development of Wakáŋ Tipi Center to our ongoing monthly programs - we have a lot to celebrate.

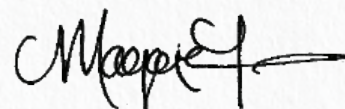
We hosted so many fresh, new and innovative programs led

by our staff and community experts. We strengthened existing partnerships and forged new ones. And two years after a board resolution to become Native-led, 2019 made that goal a reality with the permanent hire of a Native executive director and onboarding two new Native board members.

It was an exciting year full of firsts and we have no intention of slowing down! We hope you enjoy this recap of our year and continue to join us in this incredible journey. Our circle

of support has made all of this possible - we are so grateful to have earned the confidence and trust required to lead this work.

With gratitude,



Maggie Lorenz

Executive Director, Lower
Phalen Creek Project

OUR MISSION

“

Engaging people to honor and care for our natural places and the sacred sites and cultural value within them.

”

Lower Phalen Creek Project is a 501(c)(3) Native-led environmental nonprofit serving the East Side River District area of Saint Paul. Over the past 20 years, our major projects have included the establishment and restoration of Bruce Vento Nature Sanctuary, creating local trail connections, and rain garden installations. One of our longest-standing efforts is the restoration – or “daylighting” of Phalen Creek, which runs from Lake Phalen to the Mississippi, and was buried underground in a storm pipe nearly a century ago.

Alongside these conservation projects, LPCP recognizes that the East Side also has deep cultural roots, in particular, as the homelands of the Dakota People. Our latest project honors these roots and the Dakota site in Bruce Vento Nature Sanctuary, Wakáŋ Tipi (Dwelling Place of the Sacred) with the development of Wakáŋ Tipi Center; a 9,500 sq ft cultural and environmental interpretive center to be located in the Sanctuary.





1997

East Side and Lowertown community activists create Lower Phalen Creek Project (LPCP) to reclaim and restore a parcel of neglected Dakota land containing the sacred site Wakáŋ Tipi Cave.

2005

Bruce Vento Nature Sanctuary and its 6 ecosystems are opened to the public after volunteers removed 50 tons of trash and 13 tons of contaminated soil.

2011

LPCP is officially established as a 501(c)(3) non-profit serving the East Side River District of Saint Paul.

2015

LPCP begins the process of creating Wakáŋ Tipi Center, a cultural and environmental interpretive center at Bruce Vento Nature Sanctuary.

2019

In addition to being awarded a \$3 million bonding bill for the construction of Wakáŋ Tipi Center, LPCP officially becomes a Native-led organization.

1. Wakán Tipi Center

A first-of-its-kind cultural and environmental interpretive center.

2. Wakpá Thanká

Before industrialization and widespread settlement, the river connected Phalen Creek, Wakán Tipi, Makhápaha, and the people to each other in a web of reciprocal relations.

Swede
Hollow Park

Lowertown

E. Kellogg Blvd / 3rd St Bridge

1. Wakán Tipi Center

Rail Road

Warner Rd

2. Wakpá Thanká
(Mississippi River)



- Floodplain forest
- Dry prairie
- Oak savanna
- Oak woodland
- Bluff prairie
- Spring-fed stream and wetlands

3. Imniža ska

The Dakota name for the area of Saint Paul. The word refers to the white sandstone bluffs found in Bruce Vento Nature Sanctuary and along the Mississippi River.

4. Wakán Tipi Cave

Dakota oral history tells us of the sacred beings who dwell within this cave and as such we honor these spirits through our language. Wakán Tipi means *Dwelling Place of the Sacred*.

OUR PROGRAMS

Lower Phalen Creek Project offers monthly public programming in the areas of urban conservation, environmental education, and cultural connections and healing.

URBAN CONSERVATION AND RESTORATION

Lower Phalen Creek Project has led numerous projects on the East Side including the reclamation and restoration of 27 acres of abandoned wasteland (now Bruce Vento Nature Sanctuary) installation of rain gardens, and bike and pedestrian trails and connections. In 2019, we partnered with the City of Saint Paul and local school and youth groups to tackle invasive species, introduce more native plants, and contribute to thriving East Side green spaces.

- ▶ [City Wide Clean-up](#)
- ▶ [Pollinator Festival](#)
- ▶ [Harding High School Field Trip](#)
- ▶ [Golden Eagles Field Trip](#)
- ▶ [Great River School Field Trip](#)



ENVIRONMENTAL EDUCATION

Knowledge is a critical component to the protection and support of recovering ecosystems. We rely on a growing network of passionate ecologists, naturalists, and Native community members who share their cultural and traditional ecological knowledge to help us share this work with our community. Programs include our annual Pollinator Festival, seasonal activities like winter wildlife tracking, and regular visits from school groups of all ages.

- ▶ Dakota Waniyetu Winter Walk storytelling
- ▶ Native Plants Walk at Bruce Vento Nature Sanctuary
- ▶ Birding Walk at Bruce Vento Nature Sanctuary
- ▶ Nature Photography Walk at Bruce Vento Nature Sanctuary
- ▶ Pollinator Festival
- ▶ Winter Bird Count
- ▶ Harding High School Field Trip
- ▶ Upper Mississippi Academy Field Trip
- ▶ Golden Eagles Field Trip
- ▶ Great River School Field Trip



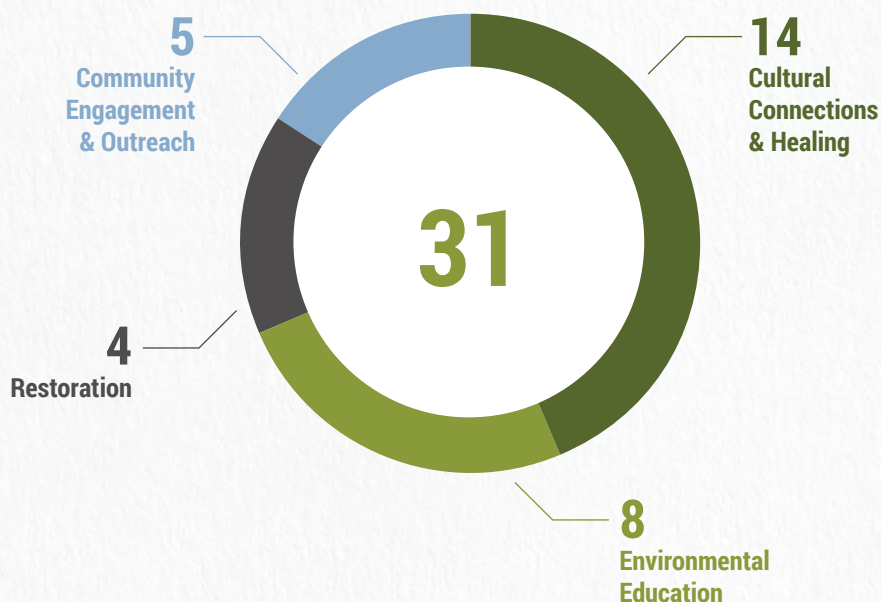
CULTURAL CONNECTIONS AND HEALING

All of our work — at Bruce Vento Nature Sanctuary, at Swede Hollow Park, and throughout the East Side — takes place on Dakota land. It is our duty to honor and care for this land with the perspectives, language, and culture of the Dakota people at the forefront of our work. To this end, we host a variety of programs that reinforce the relationships Indigenous people have with these spaces, including Dakota star knowledge teachings, water walks, and land acknowledgments.



- ▶ Community Discussion about the City Hall Murals
- ▶ Dakota Waniyetu Winter Walk storytelling
- ▶ Swede Hollow Dakota Park Tour
- ▶ Why Treaties Matter: Opening Event
- ▶ Why the history of Treaties Matter
- ▶ Why Treaties Matter: Dislocation, Violence, and Resettlement
- ▶ Why Treaties Matter: What We Should Do About Educating
- ▶ Wakan Tipi Center Community Conversation at the Dakhóta Omníčiyé: Thokátakiya Máni Pi
- ▶ Dakota History Walk at Bruce Vento Nature Sanctuary
- ▶ Native Plants Walk at Bruce Vento Nature Sanctuary
- ▶ Wakáŋ Tipi Center: Community Visioning
- ▶ Wakan Tipi Walk
- ▶ Land Acknowledgment Event
- ▶ Harding High School Field Trip
- ▶ Golden Eagles Field Trip
- ▶ Great River School Field Trip
- ▶ Upper Mississippi Academy Field Trip

NUMBER OF PROGRAMS BY AREA OF INTERVENTION



1774

people engaged



31

programs offered



5

youth field experiences
at Bruce Vento Nature
Sanctuary with a focus
on Dakota storytelling
and environmental
education.



293

youth served through
our field experience
programs

OUR EVENTS

2019 was a great year for LPCP programming! As we transformed into a Native-led non-profit, our programming shifted to include an even greater focus on Indigenous knowledge and cultural educators.

HARDING HIGH SCHOOL FIELD TRIP

On May 22nd 2019, a group of 20 Native students from Harding High school joined us at Bruce Vento Nature Sanctuary for some restoration work and environmental and cultural education. St. Paul Parks and Recreation joined us to provide some environmental education while we brought in Rowen Immanuel and Fern Renville to assist in cultural and traditional ecological

knowledge. Together, these students planted and put in over 100 sage plugs, 15 chokecherry shrubs, and 10 junberry shrubs. All of these are Native plants with deep cultural significance for the Dakota people, the first people of Minnesota. These students, and our staff, left with a deeper understanding of our culturally important plants and what it means to be in relation with them.





INDIGENOUS LAND ACKNOWLEDGMENT EVENT

On Indigenous Peoples Day 2019, Lower Phalen Creek Project teamed together with the Native Governance Center to bring the community an event about Indigenous Land Acknowledgement. Hosted at Metropolitan State, this was an evening filled with great conversation amongst an amazing panel of Native professionals, elders, and youth. Our panelists, Dr. Kate Beane (Flandreau Santee Dakota and Muskogee Creek), Mary Lyons (Leech Lake Band of Ojibwe), Rose Whipple (Isanti Dakota and Ho-Chunk), Rhiana Yazzie (Diné), and Cantemaza (Neil) McKay (Spirit Lake Dakota) encouraged folks to always do their homework when exploring Land Acknowledgements. They highlighted how pivotal

it is that everyone does the work to know the history of the land we reside on, learn about the treaties, incorporate Native languages in all of our practices, work towards returning the land, and always uplift the hard work that our Native community members are doing. Through this event, our community learned that a land acknowledgment is never a one-step process, but accompanied by action, it can be a tool for education and forming relationships with local Native communities.

WHY TREATIES MATTER EVENT SERIES

In March and April of 2019, we teamed up with the East Side Freedom Library to host a series of events that highlighted the Why Treaties Matter exhibit. This exhibit, developed by the Minnesota Humanities Center, explored the complicated history of treaty negotiations, agreements, and violations here in Minnesota. While the East Side Freedom Library so lovingly hosted the exhibit, we were pleased to partner with them to organize a series of public events that explored not only our historic relations to treaties, but also our present and future relations. On March 24 we hosted our opening event that welcomed Native dance, drum, and singing from Wakinyan Luta Oyanke and Oyate Teca while learning more about treaties from Dakota elder and historian, Chris Mato Nunpa. On Sunday, March 31, we hosted our second event, Why the Histories of Treaties Matter. This event,

facilitated by Lakota language teacher, Barry Frantum, uplifted the voices of our Native youth as a panel Dakota and Anishinabe relatives explored their views and relationships to treaty history. Our youth panelists did an incredible job conveying the importance of knowing your history and the land you reside on. On April 14 we hosted our third event, Expropriation, Dislocation, Violence, and Resettlement, that served as a conversation between Native community members and members of immigrant and refugee communities. And finally on April 28 we hosted our closing program, Why Treaties Matter: What Should We Do About this History, which focused on current issues such as Indian Mounds Park, the City Hall murals, and the names of public buildings and spaces for perpetrators of genocide against Native peoples.



OUR PROJECTS

DAYLIGHTING PHALEN CREEK

Lower Phalen Creek historically flowed out of Lake Phalen, meandering for about four miles through what is now the East Side of St. Paul, emptying into the Mississippi River on the far side of Bruce Vento Nature Sanctuary. This creek served as a corridor for the Dakota people who lived here, as they made their way up the chain of lakes by canoe to White Bear Lake - one of many areas where they gathered wild rice. By the 1930's, the creek was sent entirely underground in a large storm pipe to make way for housing and other development.

In January of 2019, LPCP contracted Interfluv Inc. to complete an initial water feasibility study to determine the optimal areas to daylight the creek. Two stretches of the creek came out as most viable: (1) Johnson Parkway between Maryland Ave. and Phalen Blvd. (Reach 7), and (2) Along the Bruce Vento Regional Trail

between Frank Ave. and Swede Hollow Park (Reach 5). The restoration of this creek is the namesake and inspiration that started our organization back in 1997 and after more than 20 years, that vision is still a driving force in our work and we are excited to continue!



WAKÁŃ TIPI CENTER

As Lower Phalen Creek Project began to work towards the restoration of the 27-acre site now known as Bruce Vento Nature Sanctuary, the incredible story of WakáŃ Tipi, a cave nestled in the base of the bluff at the far east end of the Sanctuary, began to unfold. The cave (also known as Carver's Cave) is a site of great cultural and historical importance in the region, but this history is little known, and there is a lack of accessible information available. Through research and site studies, the significance of this place as a Dakota Sacred Site became unmistakable; sharing the story and protecting the site became paramount.

LPCP began to reach out and build relationships with local

Dakota community members as well as the four federally recognized Dakota communities in the state. Over the course of time, LPCP made an intentional decision that the stories of this place should be told by Dakota voices. A 2017 survey of local residents and park users revealed a great desire for authentic Dakota interpretation of this site and a history and perspective of the area through an Indigenous lens. The same year, the organization resolved to become Native-led. In 2018, LPCP was awarded \$3 million in bonding funds from the State of Minnesota to design and build WakáŃ Tipi Center; a cultural and environmental interpretive center to be located at the entrance to Bruce Vento Nature Sanctuary, approximately one mile west of the sacred cave site.

2019 was a huge year for the development of WakáŃ Tipi Center. After securing \$3 million in state bonding in 2018, our work in 2019 shifted to raising the remaining \$4.7 million required to complete this \$7.7 million project. We created a capital campaign committee, selected and hired an architect - Cunningham Group and Full Circle Indigenous Design - and hired a Director for WakáŃ Tipi Center, Maggie Lorenz. We assembled a Dakota-led steering committee to complete pre-design and raised \$860K from private donors and foundations.



PHIDAMAYAYE! THANK YOU!

Wakáŋ Tipi Center Pre-design Team

- ▶ Thomas Draskovic
- ▶ Mark Kahn
- ▶ Chip Lindeke
- ▶ Maggie Lorenz
- ▶ Sam Olbekson
- ▶ Mary Kay Palmer
- ▶ Chris Stark

Community Advisory Committee

- ▶ Joe Bendickson
- ▶ Mishaila Bowman
- ▶ Nolan Berglund
- ▶ Jerry Dearly
- ▶ Franky Jackson
- ▶ Janice LaFloe
- ▶ Maria McCoy
- ▶ Crystal Norcross
- ▶ Ethan Neerdaels
- ▶ Sam Odegard
- ▶ Jim Rock
- ▶ Cheyanne St. John
- ▶ David Woods
- ▶ Michael Kurtz

Thank you, Wakáŋ Tipi Center Donors!

- ▶ Driscoll Foundation
- ▶ F.R. Bigelow Foundation
- ▶ Margaret A. Cargill Foundation Fund of the Minneapolis Foundation
- ▶ Hardenbergh Foundation
- ▶ Manitou Fund
- ▶ McKnight Foundation
- ▶ McNeely Foundation
- ▶ The McNeely Foundation Fund of the Saint Paul & Minnesota Foundation
- ▶ Metropolitan Council Parks Equity Fund
- ▶ National Endowment for the Humanities
- ▶ Nicholson Brothers Fund of The Saint Paul Foundation
- ▶ Shakopee Mdewakanton Sioux Community
- ▶ Gordon and Jeanne Shepard Family Fund of The Saint Paul Foundation
- ▶ The Saint Paul & Minnesota Foundation
- ▶ State of Minnesota

WAKÁŊ TIPI CENTER CAPITAL CAMPAIGN

\$4,039,455
2018

\$4,899,255
2019

\$7,700,000
Total campaign goal

OUR NUMBERS

STATEMENT OF FUNCTIONAL EXPENSE

2019						2018
Support Services						
	Total Program Services	Management & General	Fundraising	Total Support Services	Total All Services	Total All Services
Total Personnel Costs	69,548	43,417	7,302	50,719	120,267	118,160
Total Expense (\$)	110,682	74,040	47,338	120,733	232,060	232,665

STATEMENTS OF ACTIVITIES AND CHANGES IN NET ASSETS

	2019			2018		
	Without Donor Restrictions	With Donor Restrictions	Total	Without Donor Restrictions	With Donor Restrictions	Total
Total Support and Revenue	387,905	688,922	1,076,827	180,768	873,193	1,053,961
Total Expense	232,060	-	232,060	232,665	-	232,665
Change in Net Assets	155,845	688,922	844,767	-51,897	873,193	821,296
Net Assets- Beginning of Year	73,789	1,083,051	1,156,840	125,686	209,858	335,544
Net Assets - End of Year (\$)	229,634	1,771,973	2,001,607	73,789	1,083,051	1,156,840



STATEMENTS OF FINANCIAL POSITION DECEMBER 31, 2019 AND 2018

	2019	2018
ASSETS		
<i>Current Assests:</i>		
Cash and Cash Equivalents	1,700,872	992,143
Pledges Receivable	158,498	148,167
Prepaid Expenses	375	827
Total Current Assets	1,859,745	1,141,137
Pledges Receivable	65,256	30,483
Propert - Net	100,803	-
Total Assests (\$)	2,025,804	1,171,620
LIABILITIES AND NET ASSESTS		
<i>Current Liabilities:</i>		
Accounts Payable	21,246	10,818
Accured Expenses	2,951	3,869
Funds Held for Others	-	93
Total Liabilities	24,197	14,780
<i>New Assets:</i>		
Without Donor Restrictions	229,634	73,789
With Donor Restrictions	1,771,973	1,083,051
Total Net Assets	2,001,607	1,156,840
Total Liabilities and Net Assets (\$)	2,025,804	1,171,620

STAFF AND BOARD



DAN MCGUINESS

Board Chair



THOMAS DRASKOVIC

Secretary



CYNTHIA WHITEFORD, JD





MAGGIE LORENZ

Executive Director
& Wakáŋ Tipi Center Director



MISHAILA BOWMAN

Communications
& Outreach Coordinator



BONITA JENNÉ

Financial
Coordinator



CHIP LINDEKE

Treasurer



PATRICE KUNESH, JD



DR. KATHERINE BEANE



WOPIDA TANKA DONORS!



We gratefully acknowledge the support of the following people and organizations. We work hard to ensure that all of our donors are thanked and recognized. Please contact Mishaila Bowman at mbowman@lowerphalencreek.org for any corrections.

\$50,000 +

Manitou Fund

\$25,000 - \$49,999

Bush Foundation
Katherine B. Andersen
Fund of The Saint Paul &
Minnesota Foundation
McNeely Foundation

\$10,000 - \$24,999

Anonymous
Capitol Region Watershed
District
Nexus Community Partners

Northwest Area Foundation
Bruce F. Vento Science
Educator Scholarship Fund
of the Saint Paul Foundation

\$5,000 - \$9,999

BNSF Railway Foundation

\$2,500 - \$4,999

Charles P. and Mary E.
Belgarde Foundation
Headwaters Foundation for
Justice – Earth Cloud Fund
Dan and Nan McGuiness
Nicholson Family
Foundation

\$1,000 - \$2,499

Kerry Campbell and Chip L
indeke
Inter-Fluve Inc.
Peter Gove
Melanie Kleiss Fund of the
Saint Paul & Minnesota
Foundation
Mille Lacs Corporate
Ventures
Richard Todd
Unity Church - Unitarian of
Saint Paul
Susan Vento
Joan and Oliver Washburn

Family Fund of the
Saint Paul & Minnesota
Foundation
Cynthia Whiteford and
David Nelson

\$500 - \$999

Bremer Bank
James and
Karen Frisell Family
Foundation
Stuart and Mary Ellen
Knappmiller
Patrice H. Kunesch
Landmark Environmental
LLC
Mairs and Power

Paul Mohrbacher and Ruth
Meany Murphy
Jean Rivard

\$250 - \$499

Maggie Arzdorf-Schubbe
Christine Baeumler Robert
Bierscheid
Stewart Crosby
Nichole Fairbanks
Mark Harrison
Jennifer Halcrow
Karen and Stephan Kistler
John E Larsen
Weiming Lu
Patrick Nunnally
Mary Kay Palmer
Bill R. Zajicek
and Romi Slowiak

\$100 - \$249

Kathleen Anglo
Virginia Arthur
Sierra Asamoah-Tutu
Peter Berrie
Shelley Buck
Chris Cardozo
Carol and Cliff Carey
Jane Carlstro
Anne Carney
Oriane Casale
Merritt Clapp-Smith
Sarah and Whitney Clark
Shawn Dobbins
Thomas Draskovic
Rick Duncan
Kevin Earley
John Erler

Shirley Erstad
Cardina Esparza
American Indian Family
Center
John Fetzer
Sue Gens
Nor Hall
Jay and Page Cowles
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Jacob Jurss
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Mary Kunesch-Podein
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Rayanna Lennes
Lewellen Donor Advised
Fund of Fidelity Charitable
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and Don Lorr
Rob Mairs
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Jane Prince
Karen Reynolds
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Craig Smith
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Russ Stark
Ernie Steck
Terri Thao
Dan Titcomb
Thomas J. Triplett
Sherry Van Duyn
Don Varney
Tony Vavoulis
Joshua Wasniewski

Up to \$100

Anonymous
Monica B
Carly Badheartbull
Kate Beane
Joe Bendickson
Charissa Blue
Gina E. Bonsignore
Jeffrey Borden
Alice Bowron
Angela Brown
Nicole Marie Buck
Ruth Campbell
Carol Carey
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Stephanie Harr
Julia Hobday
Tonja Honsey
Cole Red Horse Jacobson
Edward Jackson
Mimi Jennings
Jessica Lackey
Doug Limon
Maggie Lorenz and
Barry Hand
Richard J Martinez
Chris Mato Nunpa

Elizabeth McCray
Peg Meyer
Kaela Meyers
Jeffrey Miersch
Karla Miller
Gary Noren
Sam Olbekson
Thomas O'Sullivan
Carrie Owen
Dorothy Paddock
Robert Pilot
Imants Pone
Tristan Price
Peter Rachleff and Beth
Cleary
Victoria Reinhardt
Peter Rowell
Tatiana Semenova
Alicia Smith
Mona Smith
Promise Starr
Rose Stenglein
Mary Texer
Susan Tietjen
Angie Tillges
Anna Waugh
Lark Weller

VOLUNTEER TESTIMONIAL



“

Hello! My name is Carissa and I am a local historian in St. Paul. My love for the natural world, along with the call to be an ally and supporter of Indigenous communities, brought me to volunteering with the Lower Phalen Creek Project. What I have enjoyed the most is the sense of family and unity that LPCP brings to any event it hosts and to any event it shows up to support. Wopida tanka to the whole team that is Lower Phalen Creek Project.

“

Carissa Thomas, Volunteer

WAKÁŃ TIPI CENTER TESTIMONIAL

“

We have an opportunity here to give a strong presence to the Dakota community, who have been pushed out. What is great about this site is that it's a former industrial site that's being reclaimed as a nature sanctuary, but also that Dakota People are regaining part of their identity.

“

Sam Olbekson, Architect, Full Circle Indigenous Planning and Cunningham Group

WAKÁŃ TIPI CENTER TESTIMONIAL

“

Urban Roots youth interns have been working at Bruce Vento Nature Sanctuary since the park was established, helping to do restoration. I want me, the youth that I work with, and the community that we interact with, to better understand the Dakota cultural significance of this site as well.

“

David Woods, Urban Roots Conservation Program Manager

WAKÁŃ TIPI CENTER TESTIMONIAL

“

Having the opportunity to work with the architect and other stakeholders early in the design process not only opened the door for cross cultural dialog to take place, it created a welcoming environment for interested parties to come together and express shared interest toward long term preservation goals for this incredibly important place that so many of us treasure. One of the key components for successful consultation is having willing partners, we here at the PI THPO look forward to strengthening the relationships we have created with our friends at WakáŃ Tipi Center/ Bruce Vento Nature Sanctuary and extend our gratitude for this wonderful opportunity.

”

Franky Jackson, Compliance Officer Prairie Island Tribal Historic Preservation Office

YOUTH TESTIMONIAL

“

I really enjoy being outside so I liked the field trip to Bruce Vento to plant. One thing I learned that really stuck with me is how to plant trees effectively, you have to make sure to plant it flush with the ground and loosen up the roots. The environmental part was inspirational to me; knowing that one day what I planted will grow and turn into something more that will prosper. It also made it feel special to plant these trees at a sacred site. It was a phenomenal experience that anyone can do and get involved with. I want to continue to be involved with this kind of work.

”

Cruz Novotny, Harding High School volunteer



WHAT'S NEXT?

2020 GOALS AND FUTURE ASPIRATIONS

In 2019 we made enormous headway on our two major projects and 2020 we will continue that work by moving from pre-design into schematic design with our Wakáŋ Tipi Center project and begin our work with an interpretive planner to help us flesh out the stories we will tell at the Center. We will continue our community engagement with Daylighting Phalen Creek and begin work on a technical feasibility study for a specific stretch of the creek along Johnson Parkway. Our 2019 annual board retreat planning meeting

calls for an additional full-time Program Manager position that will develop, manage, and implement our Conservation and Environmental Education programs. We have a lot of amazing opportunity that lies ahead. We couldn't be more excited to dive in!

SOCIAL MEDIA NUMBERS 2019

1,192

Facebook
likes

193

Instagram
followers

2,000

Newsletter
participants

FOLLOW US

and Sign Up for
our Newsletter

— GET INVOLVED —

2019 has been a year of great success for Lower Phalen Creek Project and none of it would have been possible without support from our volunteers, partners, donors, and engaged community members like you! Help us keep this momentum going as we venture into the years to come.

VISIT OUR WEBSITE



lowerphalencreek.org
to sign up for our newsletter

FOLLOW US



on Instagram and Facebook
[@lowerphalencreek](https://www.instagram.com/lowerphalencreek)

DONATE TO SUPPORT

our work in Urban Restoration,
Environmental Education,
and Cultural Connections
and Healing.

2020 © LOWER PHALEN CREEK PROJECT

GRAPHIC DESIGN RAQUEL MAGALHÃES MENDES

Form **990**
(Rev. January 2020)
Department of the Treasury
Internal Revenue Service

Return of Organization Exempt From Income Tax

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

Do not enter social security numbers on this form as it may be made public.
Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2019
Open to Public Inspection

A For the 2019 calendar year, or tax year beginning , and ending

B Check if applicable:

- ☐ Address change
☐ Name change
☐ Initial return
☐ Final return/terminated
☐ Amended return
☐ Application pending

C Name of organization

LOWER PHALEN CREEK PROJECT

Doing business as

Number and street (or P.O. box if mail is not delivered to street address)

804 MARGARET STREET

Room/suite

City or town, state or province, country, and ZIP or foreign postal code

SAINT PAUL

MN 55106

D Employer identification number

**** - ***9929**

E Telephone number

612-581-8636

G Gross receipts \$ **1,076,827**

F Name and address of principal officer:

MAGGIE LORENZ

804 MARGARET STREET

ST PAUL

MN 55106

H(a) Is this a group return for subordinates? ☐ Yes ☒ No

H(b) Are all subordinates included? ☐ Yes ☐ No

If "No," attach a list. (see instructions)

I Tax-exempt status: ☒ 501(c)(3) ☐ 501(c) () t (insert no.) ☐ 4947(a)(1) or ☐ 527

J Website: **WWW.LOWERPHALENCREEK.ORG**

H(c) Group exemption number **u**

K Form of organization: ☒ Corporation ☐ Trust ☐ Association ☐ Other **u**

L Year of formation: **2011**

M State of legal domicile: **MN**

Part I Summary

Activities & Governance	1 Briefly describe the organization's mission or most significant activities:		
	TO ENGAGE PEOPLE IN HONORING AND CARING FOR OUR NATURAL PLACES AND THE SACRED SITES AND CULTURAL VALUE WITHIN THEM.		
	2 Check this box <input type="checkbox"/> if the organization discontinued its operations or disposed of more than 25% of its net assets.		
	3 Number of voting members of the governing body (Part VI, line 1a)	3	7
	4 Number of independent voting members of the governing body (Part VI, line 1b)	4	7
	5 Total number of individuals employed in calendar year 2019 (Part V, line 2a)	5	4
	6 Total number of volunteers (estimate if necessary)	6	135
Revenue	7a Total unrelated business revenue from Part VIII, column (C), line 12	7a	0
	b Net unrelated business taxable income from Form 990-T, line 39	7b	0
Expenses	8 Contributions and grants (Part VIII, line 1h)	Prior Year	Current Year
	9 Program service revenue (Part VIII, line 2g)	1,053,127	1,058,448
	10 Investment income (Part VIII, column (A), lines 3, 4, and 7d)	634	1,827
	11 Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)	200	15,382
	12 Total revenue – add lines 8 through 11 (must equal Part VIII, column (A), line 12)	1,053,961	1,170
	13 Grants and similar amounts paid (Part IX, column (A), lines 1–3)	0	0
	14 Benefits paid to or for members (Part IX, column (A), line 4)	0	0
Net Assets or Fund Balances	15 Salaries, other compensation, employee benefits (Part IX, column (A), lines 5–10)	118,160	120,267
	16a Professional fundraising fees (Part IX, column (A), line 11e)	30,780	36,066
	b Total fundraising expenses (Part IX, column (D), line 25) u	47,338	
	17 Other expenses (Part IX, column (A), lines 11a–11d, 11f–24e)	83,725	75,727
	18 Total expenses. Add lines 13–17 (must equal Part IX, column (A), line 25)	232,665	232,060
	19 Revenue less expenses. Subtract line 18 from line 12	821,296	844,767
	20 Total assets (Part X, line 16)	Beginning of Current Year	End of Year
21 Total liabilities (Part X, line 26)	1,171,620	2,025,804	
22 Net assets or fund balances. Subtract line 21 from line 20	14,780	24,197	
		1,156,840	2,001,607

Part II Signature Block

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge.

Sign Here	Signature of officer	Date
	CHIP LINDEKE Type or print name and title	TREASURER
Paid Preparer Use Only	Print/Type preparer's name	Preparer's signature
	NICHOLE FAIRBANKS	NICHOLE FAIRBANKS
	Date	Check <input type="checkbox"/> if self-employed PTIN
	08/25/20	*****
	Firm's name	Firm's EIN
	HARRINGTON LANGER & ASSOCIATES	** - ***2347
	Firm's address	Phone no.
	563 PHALEN BLVD SAINT PAUL, MN 55130	651-481-1128

May the IRS discuss this return with the preparer shown above? (see instructions) ☒ Yes ☐ No

For Paperwork Reduction Act Notice, see the separate instructions.

Form **990** (2019)

Part III Statement of Program Service AccomplishmentsCheck if Schedule O contains a response or note to any line in this Part III ☐**1** Briefly describe the organization's mission:**TO ENGAGE PEOPLE IN HONORING AND CARING FOR OUR NATURAL PLACES AND THE SACRED SITES AND CULTURAL VALUE WITHIN THEM.****2** Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? ☐ Yes ☒ No

If "Yes," describe these new services on Schedule O.

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services? ☐ Yes ☒ No

If "Yes," describe these changes on Schedule O.

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.**4a** (Code:) (Expenses \$ **47,355** including grants of \$) (Revenue \$)**WAKAN TIPI CENTER - THIS ACTIVITY PLANS, COORDINATES, AND ENGAGES THE COMMUNITY IN PREPARATION FOR A 10,000 SQUARE FOOT INTERPRETIVE CENTER AT BRUCE VENTO NATURE SANCTUARY THAT WELCOMES AND CELEBRATES ALL CULTURES. IT FOCUSES MOST ON DAKOTA HISTORY AND CULTURE, EDUCATES, AND INSPIRES ENVIRONMENTAL STEWARDS, AND SERVES AS A COMMUNITY GATHERING SPACE.****4b** (Code:) (Expenses \$ **47,989** including grants of \$) (Revenue \$ **1,827**)**EDUCATION AND OUTREACH - THIS INCLUDES OUR FREE, PUBLIC MONTHLY EVENTS AT LOCAL PARKS OR FOCUSED ON LOCAL ECOLOGY. IT INCLUDES COORDINATING WITH PARTNER ORGANIZATIONS TO PROVIDE OUTDOOR EDUCATION OPPORTUNITIES IN ADDITION TO RECRUITING VOLUNTEERS TO HELP IMPROVE OUR LOCAL PARKS AND PROTECT SACRED SITES. IT ALSO INFORMS AND INVOLVES COMMUNITY MEMBERS ABOUT ALL OF OUR PROJECTS.****4c** (Code:) (Expenses \$ **15,338** including grants of \$) (Revenue \$)**RESTORATIONS - STUDY AND IMPROVE THE QUALITY OF URBAN GREEN SPACES INCLUDING PARKS, TRAILS, AND WATERWAYS.****4d** Other program services (Describe on Schedule O.)

(Expenses \$ including grants of \$) (Revenue \$)

4e Total program service expenses **u 110,682**

Part IV Checklist of Required Schedules

	Yes	No
1 Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? If "Yes," complete Schedule A	X	
2 Is the organization required to complete Schedule B, Schedule of Contributors (see instructions)?	X	
3 Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If "Yes," complete Schedule C, Part I		X
4 Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? If "Yes," complete Schedule C, Part II		X
5 Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Revenue Procedure 98-19? If "Yes," complete Schedule C, Part III		X
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I		X
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II		X
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III		X
9 Did the organization report an amount in Part X, line 21, for escrow or custodial account liability, serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? If "Yes," complete Schedule D, Part IV		X
10 Did the organization, directly or through a related organization, hold assets in donor-restricted endowments or in quasi endowments? If "Yes," complete Schedule D, Part V		X
11 If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable.		
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI		X
b Did the organization report an amount for investments—other securities in Part X, line 12, that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII		X
c Did the organization report an amount for investments—program related in Part X, line 13, that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII		X
d Did the organization report an amount for other assets in Part X, line 15, that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part IX		X
e Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X		X
f Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X		X
12a Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII		X
b Was the organization included in consolidated, independent audited financial statements for the tax year? If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional		X
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E		X
14a Did the organization maintain an office, employees, or agents outside of the United States?		X
b Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? If "Yes," complete Schedule F, Parts I and IV		X
15 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? If "Yes," complete Schedule F, Parts II and IV		X
16 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV		X
17 Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I (see instructions)	X	
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II		X
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III		X
20a Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H		X
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?		
21 Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? If "Yes," complete Schedule I, Parts I and II		X

Part IV Checklist of Required Schedules (continued)

	Yes	No
22 Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>		X
23 Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>		X
24a Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i>		X
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?		
c Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?		
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?		
25a Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i>		X
b Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i>		X
26 Did the organization report any amount on Part X, line 5 or 22, for receivables from or payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part II</i>		X
27 Did the organization provide a grant or other assistance to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity (including an employee thereof) or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>		X
28 Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV instructions, for applicable filing thresholds, conditions, and exceptions):		
a A current or former officer, director, trustee, key employee, creator or founder, or substantial contributor? <i>If "Yes," complete Schedule L, Part IV</i>		X
b A family member of any individual described in line 28a? <i>If "Yes," complete Schedule L, Part IV</i>		X
c A 35% controlled entity of one or more individuals and/or organizations described in lines 28a or 28b? <i>If "Yes," complete Schedule L, Part IV</i>		X
29 Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>		X
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>		X
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>		X
32 Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>		X
33 Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I</i>		X
34 Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i>		X
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?		X
b If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>		
36 Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>		X
37 Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>		X
38 Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? Note: All Form 990 filers are required to complete Schedule O.	X	

Part V Statements Regarding Other IRS Filings and Tax ComplianceCheck if Schedule O contains a response or note to any line in this Part V ☐

	Yes	No
1a Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable	1a	16
b Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable	1b	0
c Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	1c	X

Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)

		Yes	No
2a	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return	2a	4
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note: If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)	2b	X
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a	X
b	If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation on Schedule O	3b	
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a	X
b	If "Yes," enter the name of the foreign country u See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR).		
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a	X
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b	X
c	If "Yes" to line 5a or 5b, did the organization file Form 8886-T?	5c	
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?	6a	X
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	6b	
7	Organizations that may receive deductible contributions under section 170(c).		
a	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?	7a	X
b	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	X
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?	7c	
d	If "Yes," indicate the number of Forms 8282 filed during the year	7d	
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e	
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f	
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g	
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h	
8	Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the sponsoring organization have excess business holdings at any time during the year?	8	
9	Sponsoring organizations maintaining donor advised funds.		
a	Did the sponsoring organization make any taxable distributions under section 4966?	9a	
b	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b	
10	Section 501(c)(7) organizations. Enter:		
a	Initiation fees and capital contributions included on Part VIII, line 12	10a	
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10b	
11	Section 501(c)(12) organizations. Enter:		
a	Gross income from members or shareholders	11a	
b	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them.)	11b	
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a	
b	If "Yes," enter the amount of tax-exempt interest received or accrued during the year	12b	
13	Section 501(c)(29) qualified nonprofit health insurance issuers.		
a	Is the organization licensed to issue qualified health plans in more than one state? Note: See the instructions for additional information the organization must report on Schedule O.	13a	
b	Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans	13b	
c	Enter the amount of reserves on hand	13c	
14a	Did the organization receive any payments for indoor tanning services during the tax year?	14a	X
b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation on Schedule O	14b	
15	Is the organization subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year? If "Yes," see instructions and file Form 4720, Schedule N.	15	X
16	Is the organization an educational institution subject to the section 4968 excise tax on net investment income? If "Yes," complete Form 4720, Schedule O.	16	X

Part VI Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes on Schedule O. See instructions. Check if Schedule O contains a response or note to any line in this Part VI ☒

Section A. Governing Body and Management

	1a	7	Yes	No
1a Enter the number of voting members of the governing body at the end of the tax year If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain on Schedule O.		7		
b Enter the number of voting members included on line 1a, above, who are independent	1b	7		
2 Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?			2	X
3 Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors, trustees, or key employees to a management company or other person?			3	X
4 Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?			4	X
5 Did the organization become aware during the year of a significant diversion of the organization's assets?			5	X
6 Did the organization have members or stockholders?			6	X
7a Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?			7a	X
b Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?			7b	X
8 Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:				
a The governing body?			8a	X
b Each committee with authority to act on behalf of the governing body?			8b	X
9 Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses on Schedule O			9	X

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

	Yes	No
10a Did the organization have local chapters, branches, or affiliates?	10a	X
b If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes?	10b	
11a Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	11a	X
b Describe in Schedule O the process, if any, used by the organization to review this Form 990.		
12a Did the organization have a written conflict of interest policy? If "No," go to line 13	12a	X
b Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b	X
c Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done	12c	X
13 Did the organization have a written whistleblower policy?	13	X
14 Did the organization have a written document retention and destruction policy?	14	X
15 Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		
a The organization's CEO, Executive Director, or top management official	15a	X
b Other officers or key employees of the organization If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions).	15b	X
16a Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year?	16a	X
b If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?	16b	

Section C. Disclosure

17 List the states with which a copy of this Form 990 is required to be filed **u MN**

18 Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990-T (Section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
☐ Own website ☐ Another's website ☒ Upon request ☐ Other (explain on Schedule O)

19 Describe on Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.

20 State the name, address, and telephone number of the person who possesses the organization's books and records **u**

THE ORGAIZATION
SAINT PAUL

804 MARGARET STREET

MN 55106

612-581-8636

Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent ContractorsCheck if Schedule O contains a response or note to any line in this Part VII ☐**Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees****1a** Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
- List all of the organization's **current** key employees, if any. See instructions for definition of "key employee."
- List the organization's five **current** highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations. See instructions for the order in which to list the persons above.

☐ Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

(A) Name and title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(1) MAGGIE LORENZ										
EX DIRECTOR MARCH 19	40.00 0.00			X				59,820	0	0
(2) DAN MCGUINESS										
CHAIR	1.00 0.00	X		X				0	0	0
(3) CYNTHIA WHITEFORD										
SECRETARY	1.00 0.00	X		X				0	0	0
(4) CHIP LINDEKE										
TREASURER	1.00 0.00	X		X				0	0	0
(5) AMIN OMAR ENDED	10/19									
BOARD MEMBER	1.00 0.00	X						0	0	0
(6) DR. KATHERINE BEANE										
BOARD MEMBER	1.00 0.00	X						0	0	0
(7) THOMAS DRASKOVIC										
BOARD MEMBER	1.00 0.00	X						0	0	0
(8) PATRICE KUNESH										
BOARD MEMBER	1.00 0.00	X						0	0	0
(9)										
(10)										
(11)										

Part VIII Statement of RevenueCheck if Schedule O contains a response or note to any line in this Part VIII ☐

				(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514
Contributions, Gifts, Grants and Other Similar Amounts	1a Federated campaigns	1a					
	b Membership dues	1b					
	c Fundraising events	1c					
	d Related organizations	1d					
	e Government grants (contributions)	1e					
	f All other contributions, gifts, grants, and similar amounts not included above	1f	1,058,448				
	g Noncash contributions included in lines 1a-1f	1g	\$				
	h Total. Add lines 1a-1f	u	1,058,448				
Program Service Revenue	2a Program Service Revenue	Business Code		1,827	1,827		
	b						
	c						
	d						
	e						
	f All other program service revenue						
	g Total. Add lines 2a-2f	u	1,827				
	Other Revenue	3 Investment income (including dividends, interest, and other similar amounts)	u		15,382	15,382	
4 Income from investment of tax-exempt bond proceeds		u					
5 Royalties		u					
6a Gross rents		(i) Real	(ii) Personal				
b Less: rental expenses		6b					
c Rental inc. or (loss)		6c					
d Net rental income or (loss)		u					
7a Gross amount from sales of assets other than inventory		(i) Securities	(ii) Other				
b Less: cost or other basis and sales exps.		7b					
c Gain or (loss)		7c					
d Net gain or (loss)		u					
8a Gross income from fundraising events (not including \$ of contributions reported on line 1c). See Part IV, line 18		8a					
b Less: direct expenses		8b					
c Net income or (loss) from fundraising events		u					
9a Gross income from gaming activities. See Part IV, line 19		9a					
b Less: direct expenses		9b					
c Net income or (loss) from gaming activities		u					
10a Gross sales of inventory, less returns and allowances		10a					
b Less: cost of goods sold	10b						
c Net income or (loss) from sales of inventory	u						
Miscellaneous Revenue	11a Other Revenue	Business Code		1,170	1,170		
	b						
	c						
	d All other revenue						
	e Total. Add lines 11a-11d	u	1,170				
	12 Total revenue. See instructions	u	1,076,827	18,379	0	0	

Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX

☒

Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21				
2 Grants and other assistance to domestic individuals. See Part IV, line 22				
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16				
4 Benefits paid to or for members				
5 Compensation of current officers, directors, trustees, and key employees	59,519	39,434	15,867	4,218
6 Compensation not included above to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)				
7 Other salaries and wages	50,735	24,324	23,935	2,476
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)				
9 Other employee benefits				
10 Payroll taxes	10,013	5,790	3,615	608
11 Fees for services (nonemployees):				
a Management				
b Legal				
c Accounting	15,659		15,659	
d Lobbying				
e Professional fundraising services. See Part IV, line 17	36,066			36,066
f Investment management fees				
g Other. (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O.)	26,914	26,914		
12 Advertising and promotion				
13 Office expenses	3,918	52	3,723	143
14 Information technology				
15 Royalties				
16 Occupancy	5,240	3,030	1,892	318
17 Travel	4,165	419	3,621	125
18 Payments of travel or entertainment expenses for any federal, state, or local public officials				
19 Conferences, conventions, and meetings				
20 Interest				
21 Payments to affiliates				
22 Depreciation, depletion, and amortization				
23 Insurance	3,148	1,820	1,137	191
24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses on line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
a RESTORATION AND PROJECT	8,924	8,868	56	
b BAD DEBT	3,100		3,100	
c EVENTS	2,880			2,880
d FACILITIES & EQUIPMENT	1,103		1,103	
e All other expenses	676	31	332	313
25 Total functional expenses. Add lines 1 through 24e	232,060	110,682	74,040	47,338
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here <input type="checkbox"/> if following SOP 98-2 (ASC 958-720)				

Part X Balance SheetCheck if Schedule O contains a response or note to any line in this Part X ☐

		(A) Beginning of year		(B) End of year
Assets	1 Cash—non-interest-bearing	992,143	1	142,213
	2 Savings and temporary cash investments		2	1,558,659
	3 Pledges and grants receivable, net	178,650	3	223,754
	4 Accounts receivable, net		4	
	5 Loans and other receivables from any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons		5	
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), and persons described in section 4958(c)(3)(B)		6	
	7 Notes and loans receivable, net		7	
	8 Inventories for sale or use		8	
	9 Prepaid expenses and deferred charges	827	9	375
	10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a		
	b Less: accumulated depreciation	10b	10c	
	11 Investments—publicly traded securities		11	
	12 Investments—other securities. See Part IV, line 11		12	
	13 Investments—program-related. See Part IV, line 11		13	
	14 Intangible assets		14	
	15 Other assets. See Part IV, line 11		15	100,803
16 Total assets. Add lines 1 through 15 (must equal line 33)	1,171,620	16	2,025,804	
Liabilities	17 Accounts payable and accrued expenses	14,780	17	24,197
	18 Grants payable		18	
	19 Deferred revenue		19	
	20 Tax-exempt bond liabilities		20	
	21 Escrow or custodial account liability. Complete Part IV of Schedule D		21	
	22 Loans and other payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons		22	
	23 Secured mortgages and notes payable to unrelated third parties		23	
	24 Unsecured notes and loans payable to unrelated third parties		24	
	25 Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D		25	
	26 Total liabilities. Add lines 17 through 25	14,780	26	24,197
	Net Assets or Fund Balances	Organizations that follow FASB ASC 958, check here <input checked="" type="checkbox"/> and complete lines 27, 28, 32, and 33.		
27 Net assets without donor restrictions		73,789	27	229,634
28 Net assets with donor restrictions		1,083,051	28	1,771,973
Organizations that do not follow FASB ASC 958, check here <input type="checkbox"/> and complete lines 29 through 33.				
29 Capital stock or trust principal, or current funds			29	
30 Paid-in or capital surplus, or land, building, or equipment fund			30	
31 Retained earnings, endowment, accumulated income, or other funds			31	
32 Total net assets or fund balances		1,156,840	32	2,001,607
33 Total liabilities and net assets/fund balances	1,171,620	33	2,025,804	

Part XI Reconciliation of Net AssetsCheck if Schedule O contains a response or note to any line in this Part XI ☒

1	Total revenue (must equal Part VIII, column (A), line 12)	1	1,076,827
2	Total expenses (must equal Part IX, column (A), line 25)	2	232,060
3	Revenue less expenses. Subtract line 2 from line 1	3	844,767
4	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))	4	1,156,840
5	Net unrealized gains (losses) on investments	5	
6	Donated services and use of facilities	6	
7	Investment expenses	7	
8	Prior period adjustments	8	
9	Other changes in net assets or fund balances (explain on Schedule O)	9	
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32, column (B))	10	2,001,607

Part XII Financial Statements and ReportingCheck if Schedule O contains a response or note to any line in this Part XII ☐

	Yes	No
1 Accounting method used to prepare the Form 990: <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other _____ If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule O.		
2a Were the organization's financial statements compiled or reviewed by an independent accountant? If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both: <input type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis		X
b Were the organization's financial statements audited by an independent accountant? If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both: <input checked="" type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis	X	
c If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? If the organization changed either its oversight process or selection process during the tax year, explain on Schedule O.	X	
3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?		X
b If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why on Schedule O and describe any steps taken to undergo such audits		

SCHEDULE A
(Form 990 or 990-EZ)Department of the Treasury
Internal Revenue Service**Public Charity Status and Public Support**

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

u Attach to Form 990 or Form 990-EZ.

u Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2019**Open to Public
Inspection**

Name of the organization

LOWER PHALEN CREEK PROJECT

Employer identification number

****-***9929****Part I Reason for Public Charity Status** (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.)

- 1 ☐ A church, convention of churches, or association of churches described in **section 170(b)(1)(A)(i).**
- 2 ☐ A school described in **section 170(b)(1)(A)(ii).** (Attach Schedule E (Form 990 or 990-EZ).)
- 3 ☐ A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii).**
- 4 ☐ A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii).** Enter the hospital's name, city, and state:
- 5 ☐ An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv).** (Complete Part II.)
- 6 ☐ A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v).**
- 7 ☒ An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi).** (Complete Part II.)
- 8 ☐ A community trust described in **section 170(b)(1)(A)(vi).** (Complete Part II.)
- 9 ☐ An agricultural research organization described in **section 170(b)(1)(A)(ix)** operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture (see instructions). Enter the name, city, and state of the college or university:
- 10 ☐ An organization that normally receives: (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions—subject to certain exceptions, and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See **section 509(a)(2).** (Complete Part III.)
- 11 ☐ An organization organized and operated exclusively to test for public safety. See **section 509(a)(4).**
- 12 ☐ An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in **section 509(a)(1)** or **section 509(a)(2).** See **section 509(a)(3).** Check the box in lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g.
- a ☐ **Type I.** A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. **You must complete Part IV, Sections A and B.**
- b ☐ **Type II.** A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). **You must complete Part IV, Sections A and C.**
- c ☐ **Type III functionally integrated.** A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). **You must complete Part IV, Sections A, D, and E.**
- d ☐ **Type III non-functionally integrated.** A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). **You must complete Part IV, Sections A and D, and Part V.**
- e ☐ Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.
- f Enter the number of supported organizations:
- g Provide the following information about the supported organization(s).

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1–10 above (see instructions))	(iv) Is the organization listed in your governing document?		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
			Yes	No		
(A)						
(B)						
(C)						
(D)						
(E)						
Total						

For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Schedule A (Form 990 or 990-EZ) 2019

Part II Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)

(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Calendar year (or fiscal year beginning in) u	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")	675,218	110,935	204,950	1,053,127	1,058,448	3,102,678
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge						
4 Total. Add lines 1 through 3	675,218	110,935	204,950	1,053,127	1,058,448	3,102,678
5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f)						1,112,568
6 Public support. Subtract line 5 from line 4						1,990,110

Section B. Total Support

Calendar year (or fiscal year beginning in) u	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) Total
7 Amounts from line 4	675,218	110,935	204,950	1,053,127	1,058,448	3,102,678
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources						
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
11 Total support. Add lines 7 through 10						3,102,678
12 Gross receipts from related activities, etc. (see instructions)					12	19,213

13 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and **stop here** ☐**Section C. Computation of Public Support Percentage**

14 Public support percentage for 2019 (line 6, column (f) divided by line 11, column (f))	14	64.14 %
15 Public support percentage from 2018 Schedule A, Part II, line 14	15	76.79 %
16a 33 1/3% support test—2019. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization <input checked="" type="checkbox"/>		
b 33 1/3% support test—2018. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
17a 10%-facts-and-circumstances test—2019. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
b 10%-facts-and-circumstances test—2018. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization <input type="checkbox"/>		
18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions <input type="checkbox"/>		

SCHEDULE G
(Form 990 or 990-EZ)

Department of the Treasury
Internal Revenue Service

Name of the organization

Supplemental Information Regarding Fundraising or Gaming Activities

Complete if the organization answered "Yes" on Form 990, Part IV, line 17, 18, or 19, or if the organization entered more than \$15,000 on Form 990-EZ, line 6a.

U Attach to Form 990 or Form 990-EZ.

U Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2019

Open to Public
Inspection

Employer identification number

-*9929

LOWER PHALEN CREEK PROJECT

Part I Fundraising Activities. Complete if the organization answered "Yes" on Form 990, Part IV, line 17. Form 990-EZ filers are not required to complete this part.

1 Indicate whether the organization raised funds through any of the following activities. Check all that apply.

- a ☒ Mail solicitations e ☒ Solicitation of non-government grants
b ☒ Internet and email solicitations f ☒ Solicitation of government grants
c ☒ Phone solicitations g ☒ Special fundraising events
d ☒ In-person solicitations

2a Did the organization have a written or oral agreement with any individual (including officers, directors, trustees, or key employees listed in Form 990, Part VII) or entity in connection with professional fundraising services? ☒ Yes ☐ No

b If "Yes," list the 10 highest paid individuals or entities (fundraisers) pursuant to agreements under which the fundraiser is to be compensated at least \$5,000 by the organization.

(i) Name and address of individual or entity (fundraiser)	(ii) Activity	(iii) Did fundraiser have custody or control of contributions?		(iv) Gross receipts from activity	(v) Amount paid to (or retained by) fundraiser listed in col. (i)	(vi) Amount paid to (or retained by) organization
		Yes	No			
CORVUS NORTH, LLC 1 3948 MARKET STREET 24545 MINNEAPOLIS MN 55424	CONSULTING		X	842,000	36,066	805,934
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total				842,000	36,066	805,934

3 List all states in which the organization is registered or licensed to solicit contributions or has been notified it is exempt from registration or licensing.

Minnesota

Part II Fundraising Events. Complete if the organization answered "Yes" on Form 990, Part IV, line 18, or reported more than \$15,000 of fundraising event contributions and gross income on Form 990-EZ, lines 1 and 6b. List events with gross receipts greater than \$5,000.

		(a) Event #1	(b) Event #2	(c) Other events	(d) Total events
		(event type)	(event type)	(total number)	(add col. (a) through col. (c))
Revenue	1 Gross receipts				
	2 Less: Contributions				
	3 Gross income (line 1 minus line 2)				
Direct Expenses	4 Cash prizes				
	5 Noncash prizes				
	6 Rent/facility costs				
	7 Food and beverages ..				
	8 Entertainment				
	9 Other direct expenses				
	10 Direct expense summary. Add lines 4 through 9 in column (d)				
	11 Net income summary. Subtract line 10 from line 3, column (d)				

Part III Gaming. Complete if the organization answered "Yes" on Form 990, Part IV, line 19, or reported more than \$15,000 on Form 990-EZ, line 6a.

		(a) Bingo	(b) Pull tabs/instant bingo/progressive bingo	(c) Other gaming	(d) Total gaming (add col. (a) through col. (c))
Revenue	1 Gross revenue				
Direct Expenses	2 Cash prizes				
	3 Noncash prizes				
	4 Rent/facility costs				
	5 Other direct expenses				
	6 Volunteer labor	<input type="checkbox"/> Yes % <input type="checkbox"/> No	<input type="checkbox"/> Yes % <input type="checkbox"/> No	<input type="checkbox"/> Yes % <input type="checkbox"/> No	
	7 Direct expense summary. Add lines 2 through 5 in column (d)				
	8 Net gaming income summary. Subtract line 7 from line 1, column (d)				

9 Enter the state(s) in which the organization conducts gaming activities:

a Is the organization licensed to conduct gaming activities in each of these states? ☐ Yes ☐ No

b If "No," explain:

10a Were any of the organization's gaming licenses revoked, suspended, or terminated during the tax year? ☐ Yes ☐ No

b If "Yes," explain:

- 11** Does the organization conduct gaming activities with nonmembers? ☐ Yes ☐ No
- 12** Is the organization a grantor, beneficiary or trustee of a trust, or a member of a partnership or other entity formed to administer charitable gaming? ☐ Yes ☐ No
- 13** Indicate the percentage of gaming activity conducted in:
- | | | |
|--------------------------------------|------------|---|
| a The organization's facility | 13a | % |
| b An outside facility | 13b | % |
- 14** Enter the name and address of the person who prepares the organization's gaming/special events books and records:

Name **u**

Address **u**

- 15a** Does the organization have a contract with a third party from whom the organization receives gaming revenue? ☐ Yes ☐ No
- b** If "Yes," enter the amount of gaming revenue received by the organization **u** \$ and the amount of gaming revenue retained by the third party **u** \$
- c** If "Yes," enter name and address of the third party:

Name **u**

Address **u**

16 Gaming manager information:

Name **u**

Gaming manager compensation **u** \$

Description of services provided **u**

☐ Director/officer ☐ Employee ☐ Independent contractor

17 Mandatory distributions:

- a** Is the organization required under state law to make charitable distributions from the gaming proceeds to retain the state gaming license? ☐ Yes ☐ No
- b** Enter the amount of distributions required under state law to be distributed to other exempt organizations or spent in the organization's own exempt activities during the tax year **u** \$

Part IV Supplemental Information. Provide the explanations required by Part I, line 2b, columns (iii) and (v); and Part III, lines 9, 9b, 10b, 15b, 15c, 16, and 17b, as applicable. Also provide any additional information. See instructions.

SCHEDULE O
(Form 990 or 990-EZ)Department of the Treasury
Internal Revenue Service**Supplemental Information to Form 990 or 990-EZ**Complete to provide information for responses to specific questions on
Form 990 or 990-EZ or to provide any additional information.

u Attach to Form 990 or 990-EZ.

u Go to www.irs.gov/Form990 for the latest information.

OMB No. 1545-0047

2019**Open to Public
Inspection**

Name of the organization

LOWER PHALEN CREEK PROJECT

Employer identification number

**** - ***9929****Form 990, Part VI, Line 11b - Organization's Process to Review Form 990**

A COPY OF THE FORM 990 WILL BE PRESENTED TO THE FULL BOARD OF DIRECTORS TO
REVIEW THE RETURN, ASK QUESTIONS, AND REQUEST CHANGES PRIOR TO FILING

Form 990, Part VI, Line 12c - Enforcement of Conflicts Policy

EACH DIRECTOR, OFFICER, EMPLOYEE AND VOLUNTEER SHALL BE REQUIRED TO REVIEW
A COPY OF THE CONFLICT OF INTEREST POLICY AND TO ACKNOWLEDGE IN WRITING
THAT HE OR SHE HAS DONE SO ANNUALLY. EACH DIRECTOR, OFFICER, EMPLOYEE AND
VOLUNTEER SHALL COMPLETE A DISCLOSURE FORM IDENTIFYING ANY RELATIONSHIPS,
POSITIONS OR CIRCUMSTANCES IN WHICH S/HE IS INVOLVED THAT S/HE BELIEVED
COULD CONTRIBUTE TO A CONFLICT OF INTEREST. ANY SUCH INFORMATION REGARDING
THE BUSINESS INTERESTS OF A DIRECTOR, OFFICER, EMPLOYEE OR VOLUNTEER, OR A
FAMILY MEMBER THERE OF, SHALL BE TREATED AS CONFIDENTIAL AND SHALL
GENERALLY BE AVAILABLE ONLY TO THE CHAIR, EXECUTIVE AND COMMITTEE APPOINTED
TO ADDRESS CONFLICTS OF INTEREST. EXCEPT TO THE EXTENT ADDITIONAL
DISCLOSURE IS NECESSARY IN CONNECTION WITH THE IMPLEMENTATION OF THE
CONFLICT OF INTEREST POLICY A PERSON WHO HAS A CONFLICT OF INTEREST SHALL
NOT PARTICIPATE IN THE BOARD'S OR COMMITTEE'S DISCUSSION THE MATTER EXCEPT
TO DISCLOSE MATERIAL FACTS AND TO RESPOND TO QUESTIONS. SUCH PERSON SHALL
NOT ATTEMPT TO EXERT HIS OR HER PERSONAL INFLUENCE WITH RESPECT TO THE
MATTER, EITHER AT OR OUTSIDE THE MEETING. THE REMAINING MEMBERS SHALL
DETERMINE IF A CONFLICT EXISTS. ALL PROCEEDINGS ARE DOCUMENTED IN THE
MEETING MINUTES OR AS OTHERWISE APPROPRIATE.

Form 990, Part VI, Line 15a - Compensation Process for Top Official

Name of the organization	Employer identification number
LOWER PHALEN CREEK PROJECT	** - ***9929

BOARD OF DIRECTORS REVIEWS AND DETERMINE COMPENSATION, MN COUNCIL OF
NONPROFITS COMPARABLE DATA IS USED, DECISIONS AND RATIONALE ARE WRITTEN IN
A REVIEW DOCUMENT

Form 990, Part VI, Line 19 - Governing Documents Disclosure Explanation
THE ORGANIZATION DOES NOT MAKE ITS GOVERNING DOCUMENTS OR CONFLICT OF
INTEREST POLICY AVAILABLE TO THE PUBLIC. THE ORGANIZATION'S FINANCIAL
STATEMENTS ARE MADE AVAILABLE TO THE PUBLIC THROUGH THE MINNESOTA ATTORNEY
GENERAL'S OFFICE.

Form 990, Part IX, Line 11g - Other Fees for Services

Description	Tot/Prog Service	Mgt & General	Fundraising
Other Fees	\$ 26,914	\$ 0	\$ 0

Form 990, Part XI, Line 9 - Other Changes in Net Assets Explanation
ADJUSTMENTS TO ACCURAL \$ 0

Lower Phalen Creek Project

St. Paul, Minnesota

Financial Statements

Auditor's Report

For the Years Ended

December 31, 2019 and 2018



CERTIFIED PUBLIC ACCOUNTANTS

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Carpenter, Evert & Associates

Certified Public Accountants

7760 France Avenue S. Suite 940 Bloomington Minnesota 55435

952.831.0085 carpenterevert.com

Independent Auditor's Report

Board of Directors
Lower Phalen Creek Project
St. Paul, Minnesota

We have audited the accompanying financial statements of Lower Phalen Creek Project, which comprise the statements of financial position as of December 31, 2019 and the related statements of activities and changes in net assets, functional expense, and cash flows for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Lower Phalen Creek Project as of December 31, 2019, and the changes in its net assets and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Independent Auditor's Report (continued)

Prior Period Financial Statements

The financial statements of Lower Phalen Creek Project which comprise the statement of financial position as of December 31, 2018 and the related statements of activities and changes in net assets, functional expense, and cash flows for the year then ended, were audited by other auditors whose report dated July 15, 2019, expressed an unmodified opinion on those statements.

Carpenter Ernst and Associates, LTD.
Certified Public Accountants

Minneapolis, Minnesota
June 18, 2020

LOWER PHALEN CREEK PROJECT
STATEMENTS OF ACTIVITIES AND CHANGES IN NET ASSETS
FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018

	2019			2018		
	Without Donor Restrictions	With Donor Restrictions	Total	Without Donor Restrictions	With Donor Restrictions	Total
Support and Revenue:						
Grants and Contributions	\$ 177,148	\$ 881,300	\$ 1,058,448	\$ 41,177	\$ 1,011,950	\$ 1,053,127
Program Revenue	1,827	-	1,827	-	-	-
Interest Income	15,382	-	15,382	634	-	634
Other Income	1,170	-	1,170	200	-	200
Net Assets Released from Restrictions:						
Satisfaction of Program and Time Restrictions	28,496	(28,496)	-	138,757	(138,757)	-
Satisfaction of Capital Restrictions	163,882	(163,882)	-	-	-	-
Total Support and Revenue	387,905	688,922	1,076,827	180,768	873,193	1,053,961
Expense:						
Program Services	110,682	-	110,682	119,058	-	119,058
Support Services:						
Management and General	74,040	-	74,040	48,511	-	48,511
Fundraising	47,338	-	47,338	65,096	-	65,096
Total Support Services	121,378	-	121,378	113,607	-	113,607
Total Expense	232,060	-	232,060	232,665	-	232,665
Change in Net Assets	155,845	688,922	844,767	(51,897)	873,193	821,296
Net Assets - Beginning of Year	73,789	1,083,051	1,156,840	125,686	209,858	335,544
Net Assets - End of Year	\$ 229,634	\$ 1,771,973	\$ 2,001,607	\$ 73,789	\$ 1,083,051	\$ 1,156,840

The accompanying Notes to Financial Statements
are an integral part of these statements.

LOWER PHALEN CREEK PROJECT
STATEMENT OF FUNCTIONAL EXPENSE
FOR THE YEAR ENDED DECEMBER 31, 2019 WITH COMPARATIVE TOTALS FOR 2018

	2019				2018	
	Support Services				Total All Services	Total All Services
	Total Program Services	Management & General	Fundraising	Total Support Services		
Salaries and Benefits	\$ 63,758	\$ 39,802	\$ 6,694	\$ 46,496	\$ 110,254	\$ 107,156
Payroll Taxes	5,790	3,615	608	4,223	10,013	11,004
Total Personnel Costs	69,548	43,417	7,302	50,719	120,267	118,160
Professional Fees	26,914	15,659	36,066	51,725	78,639	69,155
Restoration and Project Expenses	8,868	56	-	56	8,924	17,045
Occupancy	3,030	1,892	318	2,210	5,240	4,730
Travel	419	3,621	125	3,746	4,165	1,960
Office Supplies	52	3,723	143	3,866	3,918	6,658
Insurance	1,820	1,137	191	1,328	3,148	2,543
Bad Debt	-	3,100	-	3,100	3,100	4,000
Events Expense	-	-	2,880	2,880	2,880	1,119
Facilities & Equipment	-	1,103	-	1,103	1,103	-
Miscellaneous	31	332	313	645	676	7,295
Total Expense	\$ 110,682	\$ 74,040	\$ 47,338	\$ 120,733	\$ 232,060	\$ 232,665

The accompanying Notes to Financial Statements
are an integral part of this statement.

LOWER PHALEN CREEK PROJECT
STATEMENT OF FUNCTIONAL EXPENSE
FOR THE YEAR ENDED DECEMBER 31, 2018

	Total Program Services	Support Services	Total Support Services	Total All Services
		Management & General	Fundraising	
Salaries and Benefits	\$ 56,334	\$ 27,350	\$ 23,472	\$ 50,822
Payroll Taxes	4,249	5,127	1,628	6,755
Total Personnel Costs	60,583	32,477	25,100	57,577
Professional Fees	25,580	9,465	34,110	43,575
Restoration and Project Expenses	15,089	-	1,956	1,956
Occupancy	3,530	1,200	-	1,200
Travel	1,499	190	271	461
Office Supplies	1,245	3,781	1,632	5,413
Insurance	1,229	741	573	1,314
Bad Debt	4,000	-	-	-
Events Expense	15	-	1,104	1,104
Facilities & Equipment	-	-	-	-
Miscellaneous	6,288	657	350	1,007
Total Expense	\$ 119,058	\$ 48,511	\$ 65,096	\$ 113,607
				\$ 232,665

The accompanying Notes to Financial Statements
are an integral part of this statement.

LOWER PHALEN CREEK PROJECT
STATEMENTS OF FINANCIAL POSITION
DECEMBER 31, 2019 AND 2018

	<u>2019</u>	<u>2018</u>
<u>ASSETS</u>		
Current Assets:		
Cash and Cash Equivalents	\$ 1,700,872	\$ 992,143
Pledges Receivable	158,498	148,167
Prepaid Expenses	375	827
Total Current Assets	<u>1,859,745</u>	<u>1,141,137</u>
Pledges Receivable	65,256	30,483
Property - Net	<u>100,803</u>	<u>-</u>
 TOTAL ASSETS	 <u><u>\$ 2,025,804</u></u>	 <u><u>\$ 1,171,620</u></u>
 <u>LIABILITIES AND NET ASSETS</u>		
Current Liabilities:		
Accounts Payable	\$ 21,246	\$ 10,818
Accrued Expenses	2,951	3,869
Funds Held for Others	-	93
Total Liabilities	<u>24,197</u>	<u>14,780</u>
Net Assets:		
Without Donor Restrictions:	229,634	73,789
With Donor Restrictions	<u>1,771,973</u>	<u>1,083,051</u>
Total Net Assets	<u>2,001,607</u>	<u>1,156,840</u>
 TOTAL LIABILITIES AND NET ASSETS	 <u><u>\$ 2,025,804</u></u>	 <u><u>\$ 1,171,620</u></u>

The accompanying Notes to Financial Statements
are an integral part of these statements.

LOWER PHALEN CREEK PROJECT
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018

	<u>2019</u>	<u>2018</u>
<u>Increase (Decrease) in Cash and Cash Equivalents</u>		
Cash Flows from Operating Activities:		
Change in Net Assets	\$ 844,767	\$ 821,296
Total Adjustments	<u>(35,235)</u>	<u>52,358</u>
Net Cash Provided by Operating Activities	809,532	873,654
Cash Flows from Investing Activities:		
Capital Campaign Construction in Progress	<u>(100,803)</u>	<u>-</u>
	(100,803)	-
Cash Flows from Financing Activities:		
None	<u>-</u>	<u>-</u>
Net Increase in Cash and Cash Equivalents	708,729	873,654
Cash and Cash Equivalents - Beginning of Year	<u>992,143</u>	<u>118,489</u>
Cash and Cash Equivalents- End of Year	<u><u>\$ 1,700,872</u></u>	<u><u>\$ 992,143</u></u>

The accompanying Notes to Financial Statements
are an integral part of these statements.

LOWER PHALEN CREEK PROJECT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2019 AND 2018

1. Summary of Significant Accounting Policies

Organizational Purpose

Lower Phalen Creek Project (the Organization) is a non-profit organization established for charitable and educational purposes located in St. Paul, Minnesota. The Organization's mission is to engage people in honoring and caring for our natural places and the sacred sites and cultural value within them.

Fund Accounting

In order to observe the limitation and restrictions placed on resources available to the Organization, the accounts are maintained in accordance with the principles of fund accounting. This is the procedure whereby resources are classified for accounting and reporting purposes into net asset groupings established according to their nature and restrictions. A description of the groupings is as follows:

Net Assets without Donor Restrictions – Net assets which are not subject to donor-imposed stipulations. These net assets include both board designated and undesignated amounts. Property and equipment is reported as net assets without donor restrictions.

Net Assets with Donor Restrictions – The part of net assets of the Organization resulting from contributions and other inflows of assets whose use is limited by donor-imposed stipulations that either expire by passage of time or can be fulfilled and removed by actions pursuant to those stipulations.

Cash and Cash Equivalents

For purposes of the statement of cash flows, the Organization considers all highly liquid debt instruments purchased with an original maturity of three months or less to be cash equivalents.

Accounts Receivable and Doubtful Accounts

No allowance for doubtful accounts has been provided for since the management of the Organization expects all receivables to be collected. The Organization uses the direct write-off method to account for uncollectible accounts receivable, whereby accounts are written-off as uncollectible when that determination has been made.

Promises-To-Give (Pledges Receivable)

Unconditional promises-to-give are recognized in the period the promises are made. Conditional promises-to-give are recognized when the conditions on which they depend are substantially met, that is, when the conditional promise becomes unconditional.

LOWER PHALEN CREEK PROJECT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2019 AND 2018

1. Summary of Significant Accounting Policies (continued)

Property and Equipment

The Organization capitalizes purchases of property and equipment over \$600 at cost if purchased or at estimated market value at date of contribution if donated. Depreciation is provided through the use of the straight-line method.

Contributions

The Organization reports gifts of cash and other assets as restricted support if they are received with donor stipulations that limit the use of the donated assets. If donor-imposed restrictions accompany the contribution, the amount is recorded as with donor restrictions. Net assets without donor restrictions are reclassified to net assets without donor restrictions in the period donor-imposed restrictions expire or are fulfilled, and are reported in the Statement of Activities under the Support and Revenue Category – Net Assets Released from Restrictions.

Program Service Fees

Program service fees are recognized as revenue when the services are provided.

Government Fees and Grants

Government grants and contract funds are recorded as contributions. Revenue is earned when eligible expenditures, as defined in each grant or contract, are made. Funds received but not yet earned are shown as refundable advances. Expenditures under government contracts are subject to review by the granting authority. To the extent, if any, that such a review reduces expenditures allowable under these contracts, the Organization will record such disallowance at the time the final assessment is made.

Advertising

Advertising costs are expensed as incurred. Advertising expense was \$31 and \$5,265 for the years ended December 31, 2019 and 2018, respectively.

Functional Allocation of Expense

Expenses are recorded in functional categories when incurred. In certain cases, allocations between categories must be made. When allocations are required, they are based on the best estimates of management.

LOWER PHALEN CREEK PROJECT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2019 AND 2018

1. Summary of Significant Accounting Policies (continued)

Income Tax

The Organization has a tax-exempt status under Section 501(c)(3) of the Internal Revenue Code and has adopted *Accounting for Uncertainty in Income Taxes*, ASC 740-10. The Organization's policy is to evaluate uncertain tax positions, at least annually, for the potential for income tax exposure from unrelated business income or from loss of nonprofit status. The Organization continues to operate consistent with its original exemption application and each year takes the necessary actions to maintain its exempt status. It has been classified as an organization that is not a private foundation under the Internal Revenue Code and charitable contributions by donors are tax deductible. In compliance with its exempt status, the Organization annually files a Return of Organization Exempt from Income Tax (Form 990).

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

New Accounting Pronouncement

The Organization has adopted Accounting Standards Update (ASU) No. 2018-08, *Not-for-Profit Entities: Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made (Topic 605)* as management believes the standards improve the usefulness and understandability of the Organization's financial reporting.

The Organization has also adopted ASU No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*, as amended as management believes the standard improves the usefulness and understandability of the Organization's financial reporting. Analysis of various provisions of this standard resulted in no significant changes in the way the Organization recognizes revenue, and therefore no changes to the previously issued audited financial statements were required on a retrospective basis. The presentation and disclosures of revenue have been enhanced in accordance with the standard.

The ASU has been applied retroactively for the periods ended December 31, 2019 and 2018.

Subsequent Events

The Organization has evaluated the effect that subsequent events would have on the financial statements through June 18, 2020, which is the date financial statements were available to be issued.

LOWER PHALEN CREEK PROJECT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2019 AND 2018

2. Financial Instruments

Significant Concentrations of Credit Risk

The Organization provides services primarily within the state of Minnesota. The amounts due for services provided are from individuals, or their third-party payors, substantially all of whom are local residents. In addition, notes, grants and contributions receivable are from local residents, governments or institutions.

Concentrations of Credit Risk Arising from Cash Deposits in Excess of Insured Limits

At December 31, 2019 and 2018, the Organization held funds at a local financial institution in excess of federally insured limits.

3. Pledges Receivables

Outstanding pledges receivable from various corporations and individuals were discounted at 4% and 5.25% for the years ended December 2019 and 2018, respectively. Balances were as follows as of:

	<u>December 31,</u>	
	<u>2019</u>	<u>2018</u>
Gross Amount Due in:		
Less than One Year	\$ 158,498	\$ 152,167
One to Five Years	<u>73,000</u>	<u>32,760</u>
Total Pledges Receivable Before Discount	231,498	184,927
Less: Present Value Discount @ 4%	<u>(7,744)</u>	<u>(6,277)</u>
Total Pledges Receivable	<u>\$ 223,754</u>	<u>\$ 178,650</u>
Current Portion of Pledges Receivable	\$ 158,498	\$ 148,167
Long-term Portion of Pledges Receivable	<u>65,256</u>	<u>30,483</u>
Total Pledges Receivable	<u>\$ 223,754</u>	<u>\$ 178,650</u>

LOWER PHALEN CREEK PROJECT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2019 AND 2018

4. Liquidity and Availability

The following represents the Organization's financial assets as of:

	<u>December 31,</u>	
	<u>2019</u>	<u>2018</u>
Financial Assets		
Cash	\$ 1,700,872	\$ 992,144
Pledges and Grants Receivable	<u>223,754</u>	<u>178,650</u>
Total Financial Assets	<u>1,924,626</u>	<u>1,170,794</u>
Less assets not available to be used within one year:		
Net Assets with Donor Restrictions	1,731,973	1,083,051
Net Assets with Restrictions to be met within a year	<u>(29,139)</u>	<u>(28,496)</u>
Total assets not available to be used within one year	<u>1,702,834</u>	<u>1,054,555</u>
Financial assets available for general expenditures within one year	<u>\$ 221,792</u>	<u>\$ 116,239</u>

The Organization considers net assets with donor-imposed restrictions that are expected to be satisfied by time during normal operations within one year to be available for use.

As part of the Organization's liquidity management plan, they invest excess cash into a savings account.

5. Net Assets with Donor Restrictions

Net assets with donor restrictions consisted of amounts for the following as of:

	<u>December 31,</u>	
	<u>2019</u>	<u>2018</u>
Subject to expenditures for specified purpose:		
Future Programming	\$ 44,390	\$ 87,147
Events	4,749	2,483
Capital Campaign	1,642,834	993,421
Wakan Tipi Operating Costs	<u>80,000</u>	<u>-</u>
Total	<u>\$ 1,771,973</u>	<u>\$ 1,083,051</u>

LOWER PHALEN CREEK PROJECT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2019 AND 2018

6. Cash Flow Operating Adjustments

Adjustments to reconcile Change in Net Assets to Net Cash Provided (Used) by Operating Activities were as follows as of:

	<u>December 31,</u>	
	<u>2019</u>	<u>2018</u>
Discount on Pledges Receivable	\$ 5,467	\$ 6,277
Long-Term Pledges Receivable	(40,240)	-
Increases (Decreases) in Current Liabilities:		
Accounts Payable	10,428	9,685
Accrued Expenses	(918)	3,869
Funds Held for Others	(93)	93
Decreases (Increases) in Current Assets:		
Pledges Receivable	(10,331)	31,220
Prepaid Expenses	452	(36)
Security Deposit	-	1,250
Total Adjustments	<u>\$ (35,235)</u>	<u>\$ 52,358</u>

7. Property and Equipment

The Organization is in the process of a capital campaign. Capital campaign costs of \$100,803 were capitalized in the year-ending December 31, 2019. Costs will not be depreciated until project is complete and in use.