

HISTORIC AND DESIGN REVIEW COMMISSION

June 02, 2021

HDRC CASE NO: 2021-226
ADDRESS: 240 E GRAYSON ST
LEGAL DESCRIPTION: NCB 14164 BLK 1 LOT 7 0.6632 AC (PEARL BREWERY DEVELOPMENT UT-1A)
ZONING: IDZ, RIO-2
CITY COUNCIL DIST.: 1
DISTRICT: River Road Historic District
APPLICANT: AMANDA FLORES/PROTECTION DEVELOPMENT INCORPORATED
OWNER: City of San Antonio City of San Antonio/RIO PERLA PROPERTIES LP
TYPE OF WORK: Modify existing surface parking lot into park plaza
APPLICATION RECEIVED: May 03, 2021
60-DAY REVIEW: Not applicable due to City Council Emergency Orders
CASE MANAGER: Edward Hall

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to install a park plaza to include water features and a public restroom in the location of an existing parking lot to the northwest of the intersection of E Grayson and Emma Koehler at Pearl.

APPLICABLE CITATIONS:

Unified Development Code Section. 35-672. - Neighborhood Wide Design Standards.

STATEMENT OF PURPOSE

This section focuses on the urban design concepts that connect individual properties and help knit them together into the fabric of the community. These concepts include the basic arrangement of streets and lots, view corridors and circulation patterns. The standards apply to all development in the seven (7) river improvement overlay districts.

- (a) Pedestrian circulation. Pedestrian access shall be provided among properties to integrate neighborhoods.
 - (1) Provide sidewalks that link with existing sidewalks on adjoining properties. If no sidewalk currently exists on an adjoining property, the applicant will have discretion in the placement of the sidewalk provided the following criteria are met:
 - A. Provide a sidewalk connection from one (1) side of the applicant's property to the other, parallel to the public right-of-way, on the street sides of the property in all river improvement overlay districts
 - B. Provide a connection from the street level sidewalk to the Riverwalk or creek at cross streets and bridges and other designated access points. This requirement may be waived if there is already a public connection from the street level to the Riverwalk or creek.
 - C. In order to preserve the rural character of "RIO-6," the HPO, in coordination with the development services department, may waive the requirement of sidewalks.
- In "RIO-3," the width of the pathway along the river shall match those widths established in the historic Hugman drawings. If there are no sidewalks in the Hugman drawings, the path will not exceed eight (8) feet in width.
- D. In RIO-7, two (2) distinct public paths, a High Bank Paseo and a Low Bank Paseo exist along the San Pedro Creek. Where a High Bank Paseo condition does not exist along the creekside of a property, a shared sidewalk and/or patio space is strongly encouraged to connect one (1) side of the applicant's property to the other along the top of the bank within the creekside setback established in this section.

- (3) Paving materials. Paving materials for pedestrian pathways shall use visually and texturally different materials than those used for parking spaces and automobile traffic.
 - A. Paving materials for pedestrian pathways shall be either:
 - i. Broom-finished, scored, sandblasted or dyed concrete;
 - ii. Rough or honed finished stone;
 - iii. Brick or concrete pavers; or
 - iv. Other materials that meet the performance standards of the above materials.
 - B. Asphalt is permitted for pedestrian pathways that also are designated as multi-use paths by the City of San Antonio. The Transportation and Capital Improvements department will maintain the designated multi-use path locations.
- (4) Street Connections to River or Creek. Retain the interesting and unique situations where streets dead-end at the river or creek, creating both visual and physical access to the river or creek for the public.
- (5) Pedestrian Access Along the Public Pathways Shall Not Be Blocked.
 - A. Queuing is prohibited on the public pathway.
 - B. Hostess stations shall be located away from the public pathway so as to not inhibit pedestrian flow on the public pathway. That is, the hostess station shall not be located in such a manner to cause a patron who has stopped at the hostess stand to be standing on the public pathway. Pedestrian flow shall be considered "inhibited" if a pedestrian walking along the pathway has to swerve, dodge, change direction or come to a complete stop to avoid a patron engaged at the hostess stand.
 - C. Tables and chairs shall be located a sufficient distance from the public pathway so that normal dining and service shall not inhibit the flow of pedestrian traffic. See inhibited definition in subsection B. above.
- (b) Automobile Access and Parking. Automobile circulation should be efficient, and conflicts with pedestrians minimized. Entry points for automobiles should be clearly defined and connections to auto circulation on adjoining properties are encouraged to facilitate access and reduce traffic on abutting public streets.
 - (1) Curb Cuts.
 - A. Limit curb cuts to two (2) on parking areas or structures facing only one (1) street, and one (1) for each additional street face. The prohibition of additional curb cuts may be waived by the HDRC where the intent of the standards are clearly met and specific site circulation patterns require an additional curb cut, such as on long parcels or at nodes.
 - B. Curb cuts may be no larger than twenty-five (25) feet zero (0) inches. Continuous curb cuts are prohibited.
 - C. Sharing curb cuts between adjacent properties, such as providing cross property access easements, is permitted.
 - D. In RIO-7, block dimensions along San Pedro Creek pose unique challenges in developing pedestrian friendly site plans. The following guidelines should be used in designing site access and circulation.
 - i. Primary Pedestrian Frontage Streets—Houston, Commerce, and north side of Nueva St.
 - a. New curb cuts are not allowed except:
 - I. Lots with no other access.
 - II. Lots with block faces over three hundred (300) feet long along Houston, Commerce St., or Nueva St. where the curb cut is part of through block circulation that includes shade trees with an arcade, sidewalk, pedestrian oriented street, or parking street.
 - ii. Secondary Pedestrian Frontage Streets—Flores and Camaron.
 - a. New curb cuts are only allowed where:

- I. Lots front on Houston, Commerce Street, or the north side of Nueva St.
 - II. Lots have no other access.
 - III. Lots with block faces over three hundred (300) feet long along Camaron or Flores St. where the curb cut is part of through block circulation that includes shade trees with an arcade, sidewalk, pedestrian oriented street, or parking street.
- iii. All other streets:
 - a. Curb cuts are allowed when placed consistent with the Unified Development Code and the Downtown Design Guidelines.
- (2) Location of Parking Areas. Automobile parking in new developments must be balanced with the requirements of active environments. Large expanses of surface parking lots have a negative impact on street activity and the pedestrian experience. New commercial and residential structures can accommodate parking needs and contribute to a pedestrian-friendly streetscape.
 - A. Locate parking areas, that is any off-street, ground level surface used to park cars or any parking structure, toward the interior of the site or to the side or rear of a building.
 - B. The extent of parking area that may be located along the street, river, or creek edge shall be limited to a percentage of the lot line as per Table 672-1 as measured in a lineal direction parallel to the lot line. All parking within a 30-foot setback from the above mentioned lot line shall comply with the requirements of the table. Where parking is located on corner sites only the lot line along the primary street has to meet the requirements of the table.
 - C. Parking lots should be avoided as a primary land use. Parking lots as a primary use are prohibited in RIO-3 and RIO-7 for all properties that fall within one hundred (100) feet of the river or creek right-of-way in all RIO districts.
- (3) Screen or Buffer Parking Areas from View of Public Streets, the River, Creek, or Adjacent Residential Uses (see Figure 672-2). Parking lots shall be screened with a landscape buffer as per the illustrations of bufferyards and Table 510-2 if the parking area meets one (1) of the following conditions:
 - A. Within a 50-foot setback from the edge of the river or creek ROW use, at a minimum, type E; or
 - B. Within a 20-foot setback from a property line adjacent to a street use, at a minimum, type B; or
 - C. Within a 20-foot setback of commercial or industrial property that abuts a residential property use, at a minimum, type C.
- (4) Parking Structures Shall Be Compatible With Buildings in the Surrounding Area in RIOs 1—6. Parking garages should have retail space or office space on the ground floor of a parking structure provided the retail or office space has at least fifty (50) percent of its linear street frontage as windows or display windows. Parking structures may be made visually appealing with a mural or public art component approved by the HDRC on the parking structure.

A parking garage will be considered compatible if:

 - A. It does not vary in height by more than thirty (30) percent from another building on the same block face; and
 - B. It uses materials that can be found on other buildings within the block face, or in the block face across the street.
- (5) In RIO-7, Parking Structures should be designed in conformance with the Downtown Design Guide.
 - A. Provide an exterior screen comprised of high quality materials that screen the underlying structure and contribute to the overall quality of the built environment. This can include heavy-gage metal screen, precast concrete panels; live green wall (landscaped), masonry, laminated glass or photovoltaic panels.
 - B. The ground floor of garages along primary streets or of garage elevations oriented towards the San Pedro Creek shall provide active ground floor uses. On all other streets the ground floor treatment

should provide a low screening element that blocks views of parked vehicle bumpers and headlights from pedestrians using the adjacent sidewalk.

- C. Integrate the design of signage, public art, and lighting with the architecture of the structure to reinforce its unique identity.
 - D. Interior garage lighting should not produce glaring sources toward adjacent residential units while providing safe and adequate lighting levels per code.
- (6) Parking Structures Shall Provide Clearly Defined Pedestrian Access. Pedestrian entrances and exits shall be accentuated with directional signage, lighting or architectural features so that pedestrians can readily discern the appropriate path of travel to avoid pedestrian/auto conflicts.
- (7) Parking lots, structures, and hardscape shall not drain directly into the river or creek without installation of appropriate water quality best management practices (WQ BMPs). Acequias shall not be used for any type of drainage.
- (c) Views. The river or creek course (both natural and manmade), and San Antonio's street pattern, creates unique views of certain properties from the public ROW. These properties often occur at prominent curves in the river, or where a street changes direction and a property appears to be a terminus at the end of a street.
- (1) Architectural Focal Point. When a property is situated in such a manner as to appear to be the terminus at the end of the street or at a prominent curve in the river or creek, the building shall incorporate into its design an architectural feature that will provide a focal point at the end of the view. (see Figure 672-3) An architectural feature will be considered to be a focal point through any of the following methods, but not limited to:
- A. Additional height.
 - B. Creation of a tower.
 - C. Variation in roof shape.
 - D. Change of color or materials.
 - E. Addition of a design enhancement feature such as:
 - i. Embellished entrance areas.
 - ii. Articulated corners, especially when entrance is at corner, rounded or chamfered corners ease the transitions from one street facade to the adjoining facade.
 - iii. Recessed or projecting balconies and entrances.
- Billboards, advertising and signage are expressly prohibited as appropriate focal points.

Unified Development Code Section. 35-673. - Site Design Standards.

This section focuses on the design concepts for an individual site and helps create a cohesive design that recognizes the unique opportunities of developing a site near the river or creek. These include building placement, orientation and setbacks, and the design of the outdoor space.

- (a) Solar Access. The intent of providing and maintaining solar access to the San Antonio River is to protect the river's specific ecoclimate. The river has a special microclimate of natural and planted vegetation that requires certain levels and balanced amounts of sunlight, space and water. Development must be designed to respect and protect those natural requirements, keeping them in balance and not crowding or altering them so that vegetation does not receive more or less space and water, but particularly sunlight, than is required for normal expected growth. Properties in RIO-7 are exempt from Solar Access requirements.
- (1) Building Massing to Provide Solar Access to the River. Building massing shall be so designed as to provide direct sunlight to vegetation in the river channel as defined:
- A. The area to be measured for solar access shall be a 30-foot setback from the river's edge or from the river's edge to the building face, which ever is lesser, parallel to the river for the length of the property.

- B. The solar calculations shall be measured exclusive to the applicant's property; that is, shades and shadows of other buildings shall not be included in the calculations. The solar calculations shall only measure the impact of new construction and additions. The shading impact of historic buildings on the site may be excluded from the calculations.
 - C. The defined area shall receive a minimum of five and one-half (5.5) hours of direct sunlight, measured at the winter solstice, and seven and one-half (7.5) hours of direct sunlight, measured at the summer solstice.
 - D. Those properties located on the south side of the river (whose north face is adjacent to the river) shall only be required to measure the sunlight in the 30-foot setback on the opposite bank of the river.
 - E. Those properties within the river improvement overlay district not directly adjacent to the river are still subject to the provisions of this section with the exception of RIO-7. To determine the solar access effect of these buildings on the river the applicant must measure the nearest point to the river of an area defined by a 30-foot setback from the river's edge, parallel to the river for the length of their property that would be affected by their building. For those buildings on the south side of the river, the 30-foot setback shall be measured only on the opposite bank.
 - F. However, in those cases where the above conditions cannot be met due to the natural configuration of the river, existing street patterns, or existing buildings, the HDRC may approve a buildings mass and height as allowed by Table 674-2.
 - G. If there is a conflict with this section and another section of this chapter this section shall prevail.
- (2) Prohibition of Structures, Buildings, Roofs or Skywalks Over the River or Creek Channel. No structure, building, roof or skywalk may be constructed over the river or creek channel, or by-pass channel with the exception of structures for flood control purposes, open air pedestrian bridges at ground or river level, and street bridges. The river channel is the natural course of the river as modified for flood control purposes and the Pershing-Catalpa ditch. The creek channel is the natural course of San Pedro Creek as modified for flood control purposes between the flood control tunnel Inlet at I-35 to the confluence with Apache Creek.
- (b) Building Orientation. Buildings should be sited to help define active spaces for area users, provide pedestrian connections between sites, help animate the street scene and define street edges. Consideration to both the street and river or creek side should be given. The placement of a building on a site should therefore be considered within the context of the block, as well as how the structure will support the broader design goals for the area.
- (1) Two (2) or More Buildings on a Site.
 - A. Cluster buildings to create active open spaces such as courtyards along the street and river or creek edges. Site plazas and courtyards, if possible, so that they are shaded in the summer and are sunny in the winter.
 - (2) Primary and Secondary Entrances (see Figure 673-1).
 - A. Orient a building's primary entrance toward the street with subordinate entrances located on the river or creek side and/or the interior of the property. On a major thoroughfare street it is acceptable to provide the primary entrance through a common courtyard and then to a street.
 - B. The primary entrance shall be distinguished by architectural features such as, but not limited to: an entry portal; change in material or color; change in scale of other openings; addition of columns, lintels or canopies.
 - C. Secondary entrances shall have architectural features that are subordinate to the primary entrance in scale and detail. For purposes of this division subordinate means that the entrance is smaller in height and width, and has fewer or simpler architectural elements.
- (c) Topography and Drainage. The natural contours of occasional hillsides and river or creek banks contribute to the distinct character of the San Antonio River and San Pedro Creek and shall be considered in site designs for new development. Site plans shall minimize the need for cut and fill. It should be considered as an opportunity

for positive enhancements through the creative use of terraces and retaining walls. Sites abutting the creek must comply with subsection 35-673(c)(8) San Antonio River Authority Consultation.

- (1) Visual Impacts of Cut and Fill. Divide a grade change of more than ten (10) vertical feet into a series of benches and terraces. Terrace steep slopes following site contours. When creating site benches, using sloped "transitional areas" as part of the required landscaping is appropriate.
- (2) Minimize the Potential for Erosion at the Riverbank or Creekbank. Grade slopes at a stable angle not to exceed four to one (4:1) and provide plant material that will stabilize the soil such as vigorous ground covers, vines or turf planting that are native and noninvasive species as found on the permissible plant list maintained by the parks and recreation department. Use of stabilizing materials such as geo-web or geo-grid is permitted as long as plant material is used to conceal the grid.

Use of terraced walls is permitted when there is a slope of more than four to one (4:1).

- (3) Retaining Walls. Limit the height of a retaining wall to less than six (6) feet. If the retaining wall must exceed six (6) feet, a series of six-foot terrace walls is acceptable. Walls at dams, water detention gates, and locks are excluded from this requirement. If in the opinion of the historic preservation officer a higher wall is consistent with the adopted conceptual plans of the river and creek, a higher wall (not to exceed twelve (12) feet) is allowed. Materials used for the walls may include limestone, stucco, brick, clay, tile, timber, or textured concrete. In RIO-7, new retaining walls should use similar material of nearby existing retaining or channel walls but should not imitate historic walls. Contemporary craft and building techniques should be used. Materials used for the walls may include limestone, concrete, or bio-engineered vegetative walls. (see Figure 673-2)
- (4) Enhance or Incorporate Acequias Into The Landscape Design and Drainage Scheme of the Site. Where archeological evidence indicates a site contains or has contained a Spanish colonial acequia, incorporate the original path of the acequia as a natural drainageway or a landscape feature of the site by including it as part of the open space plan, and a feature of the landscape design.
- (5) Design of Stormwater Management Facilities to be a Landscape Amenity. Where above ground stormwater management facilities are required, such facilities shall be multi-purpose amenities. For example, water quality features can be included as part of the site landscaping and detention facilities can be included as part of a hardscape patio. Using an open concrete basin as a detention pond is prohibited (see Figure 673-3).
- (6) Walls and Fences at Detention Areas.
 - A. When the topography of the site exceeds a four to one (4:1) slope and it becomes necessary to use a masonry wall as part of the detention area, use a textured surface and incorporate plant materials, from the plant list maintained by the parks department, that will drape over the edge to soften the appearance of the structure.
 - B. The use of solid board or chain link fence with or without slats is prohibited. A welded wire, tubular steel, wrought iron or garden loop is permitted.
- (7) Roof Drainage into the River and Creek.
 - A. All roof drainage and other run-off drainage shall conform to the Transportation and Capital Improvements department standards so that they drain into sewer and storm drains rather than by overland flow. Drainage of this type shall not be piped into the river or creek unless the outlet is below the normal waterline of the river at normal flow rates.
 - B. All downspouts or gutters draining water from roofs or parapets shall be extended underground under walks and patios to the San Antonio River or San Pedro Creek edge or stormwater detention facility so that such drainage will not erode or otherwise damage the public path, landscaping, creek or river retaining walls.

- C. All piping and air-conditioning wastewater systems shall be kept in good repair. Water to be drained purposely from these systems, after being tested and adjudged free from pollution, shall be drained in the same manner prescribed in subsection (7)A. above.
- (8) San Antonio River Authority Consultation. Consultation with the San Antonio River Authority regarding direct access adjacent to the San Antonio River and San Pedro Creek within RIO-1, RIO-2, RIO-4, RIO-5, RIO-6, and RIO-7, landscaping and maintenance boundaries, and storm water control measures as required in Sections 35-672, 35-673, and 35-678, as applicable, is required prior to a submission for a certificate of appropriateness from the Office of Historic Preservation or plat approval, as applicable, to allow for review and comment by SARA for properties that fall within the RIO Overlay District as defined in UDC 35-338. This section shall apply to newly developed properties and redevelopment of properties.
- A. Access to the San Antonio River within RIO-1, RIO-2, RIO-4, RIO-5, RIO-6, and RIO-7 shall comply with the following:
 - i. All tie in points shall provide plans sufficient to show materials and grading for review by SARA;
 - ii. Removal of existing park trail hardscape shall require SARA approval;
 - iii. Development shall make it clear for users of the park to discern public access points from private access points;
 - iv. If during construction the park trail must be temporarily closed, an alternative engineered route shall be identified and temporary signage in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) provided and maintained for the duration of the project;
 - v. Acceptance of park trail access point(s) shall be the responsibility of SARA.
 - B. Landscaping and maintenance boundaries are defined in accordance with a final maintenance agreement (the "Maintenance Agreement") entered into between the developer and SARA, which may occur independently from HDRC review. The maintenance agreement will set out the respective rights and responsibilities of the parties. The purpose of the maintenance agreement is to protect the public investment that has been made in the RIO districts and to ensure public use of the public resources. The maintenance agreement will be designed to maintain and enhance the aesthetics of the property and the function of the hydrology in keeping with the design objectives provided in section 35-670 of this chapter and shall generally conform to best management practices as documented in Appendix E Recommended Plant List and section 35-210 of this chapter.
 - C. Developments shall manage site storm water through LID components consistent with section 35-210 of this chapter and shall also comply with the following:
 - i. Storm water runoff shall pass to the river through discharge pipes or outfalls that are below water level or through an approved LID feature. Overland flow onto the park is discouraged and shall be reviewed on a case-by-case basis. Modification of this subsection shall require approval by SARA and the director of transportation and capital improvements, or their designee;
 - ii. Open concrete chutes shall be prohibited;
 - iii. Runoff from pools or other non-storm water producing sources shall be treated prior to discharging into the river or creek.
- (d) Riverside and Creekside Setbacks. Riverside and creekside setbacks for both buildings and accessory structures are established to reinforce the defined character of the specific river improvement overlay district and help to define an edge at the river pathway that is varied according to the relationship of the river, creek, and the street. In the more urban areas, buildings should align closer to the river or creek edge, while in more rural areas the buildings should be set farther away.
- (1) Minimum setback requirements are per the following Table 673-1a and 673-1b.
 - (2) Designation of a development node district provides for a minimum riverside setback of zero (0) feet.
- (e) Landscape Design. Lush and varied landscapes are part of the tradition of the San Antonio River and San Pedro Creek. These design standards apply to landscaping within an individual site. Additional standards follow that provide more specific standards for the public pathway along the river or creek and street edges.

- (1) Provide Variety in Landscape Design. Provide variety in the landscape experience along the river or creek by varying landscape designs between properties. No more than seventy-five (75) percent of the landscape materials, including plants, shall be the same as those on adjacent properties (see Figure 673-4).
 - (2) Planting Requirements in Open Space Abutting the River or Creek. On publicly-owned land leased by the adjoining property owner, if applicable, and/or within privately owned setbacks adjacent to the river or creek, a minimum percentage of the open space, excluding building footprint, lease space under bridges and parking requirements, are required to be planted according to Table 673-2.
 - A. Planting requirements in RIO-4, RIO-5, RIO-6, and RIO-7e should continue the restoration landscape efforts along the river or creek banks. Planting in these RIO districts is to be less formal so as to maintain the rural setting of the river.
 - B. In "RIO-3," if existing conditions don't meet the standards as set out in Table 673-2, the owner or lessee will not have to remove paving to add landscaping in order to meet the standards until there is a substantial remodeling of the outdoor area. Substantial remodeling will include replacement of seventy-five (75) percent of the paving materials, or replacement of balcony and stair structures.
- (f) Plant Materials. A number of soil conditions converge in the San Antonio and San Pedro Creek area to create unique vegetation ecosystems. Soil conditions vary greatly along these waterways and therefore native and indigenous plants will vary accordingly. Landscaping should reflect the unique soil characteristics of the specific site.
- (1) Incorporate Existing Native Vegetation. Extend the use of native landscape materials, including plants, shrubs and trees that are used in the public areas of the river or creek onto adjacent private areas to form a cohesive design.
 - (2) Use indigenous and noninvasive species characteristic of the specific site as found on the permissible plant list maintained by the parks and recreation department or the Unified Development Code Plant List found in Appendix E.
- In "RIO-3," plantings of tropical and semi-tropical plants with perennial background is permitted.
- (3) Install Trees to Provide Shade and to Separate Pedestrians From Automobile Traffic. Install street trees along the property line or in the ROW abutting all streets according to minimum requirement standards established in subsection 35-512(b), except where this conflicts with existing downtown Tri-Party improvements in "RIO-3." In "RIO-3" the owner has the option of placing trees at the property line, or along the street edge.
- (g) Paving Materials. An important San Antonio landscape tradition is the use of decorative surfaces for paving and other landscape structures. Paving materials and patterns should be carefully chosen to preserve and enhance the pedestrian experience.
- (1) Vary Walkway, Patio and Courtyard Paving to Add Visual Interest on the River or Creekside of Properties Abutting the River or Creek. Pervious paving is encouraged where feasible and appropriate to the site.
 - A. A maximum of six hundred (600) square feet is allowed for a single paving material before the paving material must be divided or separated with a paving material that is different in texture, pattern, color or material. A separation using a different material must be a minimum of twenty-four (24) inches wide, the full width of the pathway.
 - B. A maximum of one hundred (100) lineal feet is allowed in a walkway before the pattern must change in districts "RIO-2," "RIO-3," and "RIO-4." A maximum of five hundred twenty-eight (528) lineal feet is allowed before the pattern must change in districts "RIO-1," "RIO-5" and "RIO-6." The change of material at five hundred twenty-eight (528) lineal feet will define and delineate one-tenth-mile markers.
 - C. In "RIO-3," the Riverwalk pathway shall be delineated by using a separate material that is clearly distinguished from the adjacent patio paving materials. If the historic Hugman drawings indicate a sidewalk width and pattern on the site, that paving pattern and material shall be replicated.

- D. In RIO-7 paseos, terraces, courtyards, and patios that connect to the High Bank Paseo are encouraged to match the public pathway paving material, color, or pattern to form a more seamless connection between public pathway and on-site open spaces.
- (h) Site Walls and Fences. Site walls and fences are used to help divide spaces, screen unsightly objects and provide privacy. However, the character of the San Antonio River and San Pedro Creek is such that walls shall not be erected in such a way as to block views of the river or creek from public spaces.
 - (1) Use of Site Walls to Define Outdoor Spaces.
 - A. Use of low scale walls (twenty-four (24) inches to forty-eight (48) inches) to divide space, create a variety in landscaping and define edges is permitted.
 - B. Solid walls (up to seventy-two (72) inches) are permitted to: screen mechanical equipment, garbage receptacles and other unsightly areas; and provide privacy at the back of lots up to the front building face.
 - (2) Site Wall and Fence Materials.
 - A. On properties abutting the river or creek, site walls and fence materials may be constructed of: stone, block, tile, stucco, wrought iron, tubular steel, welded wire or a combination of masonry and metal, cedar posts and welded wire or garden loop or other materials having similar characteristics. All other properties, not abutting the river or creek may use the above listed materials plus wood fencing.
 - B. All chain link fences are prohibited for properties abutting the river or creek. For properties that do not abut the river or creek chain link is only allowed in the rear yard if not readily visible from the right-of-way. Barbed wire, razor wire, and concertina are prohibited in all RIO districts.
- (i) Street Furnishings. Street furnishings are exterior amenities, including but not limited to, tables, chairs, umbrellas, landscape pots, wait stations, valet stations, bicycle racks, planters, benches, bus shelters, kiosks, waste receptacles and similar items that help to define pedestrian use areas. Handcrafted street furnishings are particularly important in San Antonio, and therefore this tradition of craftsmanship and of providing street furniture is encouraged.
 - (1) Prohibited Street Furnishings in Riverwalk Area and San Pedro Creek Improvements Project. The following street furnishings are prohibited within the publicly owned portion of the River Walk area and SPCIP, whether or not the property is leased, and on the exterior of the river or creekside of buildings directly adjacent to the publicly owned portion of the river or creek:
 - A. Vending machines.
 - B. Automatic teller machines.
 - C. Pay phones.
 - D. Photo booths.
 - E. Automated machines such as, but not limited to, penny crunching machines, blood pressure machines, fortune-telling machines, video games, animated characters and other machines that are internally illuminated, or have moving parts, or make noise, or have flashing lights.
 - F. Inanimate figures such as horses, kangaroos, bears, gorillas, mannequins or any such animal, cartoon or human figure. This section does not affect public art as defined in Appendix "A" of this chapter.
 - G. Monitors (i.e., television screens, computer screens, digital displays, and video boards) except those permitted as part of a performing arts center digital display monitor pursuant to a specific use authorization.
 - H. Speakers, except those permitted as part of a performing arts center digital display monitor pursuant to a specific use authorization.
 - (2) Street Furnishing Materials.
 - A. Street furnishings shall be made of wood, metal, stone, terra cotta, cast stone, hand-sculpted concrete, or solid surfacing material, such as Corian or Surell.

- B. Inexpensive plastic resin furnishings are prohibited.
- (3) Advertising on Street Furnishings.
 - A. No commercial logos, trademarks, decals, product names whether specific or generic, or names of businesses and organizations shall be allowed on street furnishings.
 - B. Product or business advertising is prohibited on all street furnishings.
 - C. Notwithstanding the restrictions above, applications may be approved for purposes of donor or non-profit recognition.
- (4) Street furnishings, such as tables and chairs may not be stored (other than overnight storage) in such a way as to be visible from the river or creek pathway.
- (j) Lighting. Site lighting should be considered an integral element of the landscape design of a property. It should help define activity areas and provide interest at night. At the same time, lighting should facilitate safe and convenient circulation for pedestrians, bicyclists and motorists. Overspill of light and light pollution should be avoided.
 - (1) Site Lighting. Site lighting shall be shielded by permanent attachments to light fixtures so that the light sources are not visible from a public way and any offsite glare is prevented.
 - A. Site lighting shall include illumination of parking areas, buildings, pedestrian routes, dining areas, design features and public ways.
 - B. Outdoor spaces adjoining and visible from the river or creek right-of-way shall have average ambient light levels of between one (1) and three (3) foot-candles with a minimum of one-half (0.5) foot-candles and a maximum of six (6) foot-candles at any point measured on the ground plane. Interior spaces visible from the river or creek right-of-way on the river or creek level and ground floor level shall use light sources with no more than the equivalent lumens of a 100-watt incandescent bulb. Exterior balconies, porches and canopies adjoining and visible from the river or creek right-of-way shall use light sources with the equivalent lumens of a 60-watt incandescent bulb with average ambient light levels no greater than the lumen output of a 100-watt incandescent light bulb as long as average foot candle standards are not exceeded. Accent lighting of landscape or building features including specimen plants, gates, entries, water features, art work, stairs, and ramps may exceed these standards by a multiple of two and one-half (2.5). Recreational fields and activity areas that require higher light levels shall be screened from the river or creek hike and bike pathways with a landscape buffer.
 - C. Exterior light fixtures that use the equivalent of more than 100-watt incandescent bulbs shall not emit a significant amount of the fixture's total output above a vertical cut-off angle of ninety (90) degrees. Any structural part of the fixture providing this cut-off angle must be permanently affixed.
 - D. Lighting spillover to the publicly owned areas of the river or creek or across property lines shall not exceed one-half ($\frac{1}{2}$) of one (1) foot-candle measured at any point ten (10) feet beyond the property line.
 - (2) Provide Lighting for Pedestrian Ways That is Low Scaled for Walking. The position of a lamp in a pedestrian-way light shall not exceed fifteen (15) feet in height above the ground.
 - (3) Light Temperature and Color.
 - A. Light temperature and color shall be between 2500°K and 3500°K with a color rendition index (CRI) of eighty (80) or higher, respectively. This restriction is limited to all outdoor spaces adjoining and visible from the river right-of-way and from the interior spaces adjoining the river right-of-way on the river level and ground floor level. Levels shall be determined by product specifications.
 - B. Unique lighting methods, including LED or colored lights, are allowed in RIO-7 in order to enhance architectural elements provided such lighting installations do not conflict with any other requirement in this section.
 - (4) Minimize the Visual Impacts of Exterior Building Lighting.
 - A. All security lighting shall be shielded so that the light sources are not visible from a public way.

- B. Lighting (uplighting and downlighting) that is positioned to highlight a building or outdoor artwork shall be aimed at the object to be illuminated, not pointed into the sky.
 - C. Fixtures shall not distract from, or obscure important architectural features of the building. Lighting fixtures shall be a subordinate feature on the building unless they are incorporated into the over-all design scheme of the building.
- (5) Prohibited Lighting on the Riverside or Creekside of Properties Abutting the River or Creek.
 - A. Flashing lights.
 - B. Rotating lights.
 - C. Chaser lights.
 - D. Exposed neon.
 - E. Seasonal decorating lights such as festoon, string or rope lights, except between November 20 and January 10.
 - F. Flood lamps.
- (6) Minimize the visual impacts of lighting in parking areas in order to enhance the perception of the nighttime sky and to prevent glare onto adjacent properties. Parking lot light poles are limited to thirty (30) feet in height, shall have a 90° cutoff angle so as to not emit light above the horizontal plane.
- (k) Curbs and Gutters.
 - (1) Construct Curb and Gutter Along the Street Edge of a Property.
 - A. Install curbs and gutter along the street edge at the time of improving a parcel.
 - B. In order to preserve the rural character of RIO-5 and RIO-6, the HPO in coordination with public works and the development services department may waive the requirement of curbs and gutters.
- (l) Buffering and Screening. The manner in which screening and buffering elements are designed on a site greatly affects the character of the river districts. In general, service areas shall be screened or buffered. "Buffers" are considered to be landscaped berms, planters or planting beds; whereas, more solid "screens" include fences and walls. When site development creates an unavoidable negative visual impact on abutting properties or to the public right-of-way, it shall be mitigated with a landscape design that will buffer or screen it.
 - (1) Landscape Buffers Shall be Used in the Following Circumstances: To buffer the edges of a parking lot from pedestrian ways and outdoor use areas, (such as patios, and courtyards), and as an option to screening in order to buffer service areas, garbage disposal areas, mechanical equipment, storage areas, maintenance yards, equipment storage areas and other similar activities that by their nature create unsightly views from pedestrian ways, streets, public ROWs and adjoining property.
 - (2) Screening Elements Shall be Used in the Following Circumstances: To screen service areas, storage areas, or garbage areas from pedestrian ways.
 - (3) Exceptions for Site Constraints. Due to site constraints, in all RIOs and specifically for "RIO-3" where there is less than ten (10) feet to provide for the minimum landscape berm, a screen may be used in conjunction with plantings to meet the intent of these standards. For example a low site wall may be combined with plant materials to create a buffer with a lesser cross sectional width (see Figure 673-8).
 - (4) Applicable Bufferyard Types. Table 510-2 establishes minimum plant materials required for each bufferyard type. For purposes of this section, type C shall be the acceptable minimum type.
 - (5) Applicable Screening Fence and Wall Types. Screening fences and walls shall be subject to conditions of subsection 35-673(h), Walls and Fences.
- (m) Service Areas and Mechanical Equipment. Service areas and mechanical equipment should be visually unobtrusive and should be integrated with the design of the site and building. Noise generated from mechanical equipment shall not exceed city noise regulations.

- (1) Locate service entrances, waste disposal areas and other similar uses adjacent to service lanes and away from major streets and the river or creek.
 - A. Position utility boxes so that they cannot be seen from the public Riverwalk or San Pedro Creek path, or from major streets, by locating them on the sides of buildings and away from pedestrian and vehicular routes. Locating them within interior building corners, at building offsets or other similar locations where the building mass acts as a shield from public view is preferred.
 - B. Orient the door to a trash enclosure to face away from the street when feasible.
 - C. Air intake and exhaust systems, or other mechanical equipment that generates noise, smoke or odors, shall not be located at the pedestrian level.
- (2) Screening of service entrance shall be compatible with the buildings on the block face.
 - A. When it would be visible from a public way, a service area shall be visually compatible with the buildings on the block face.
 - B. A wall will be considered compatible if it uses the same material as other buildings on the block, or is painted a neutral color such as beige, gray or dark green or if it is in keeping with the color scheme of the adjacent building.
- (n) **Bicycle Parking.** On-site bicycle parking helps promote a long term sustainable strategy for development in RIO districts. Bicycle parking shall be placed in a well lit and accessible area. UDC bicycle parking requirements in UDC 35-526 can be met through indoor bicycle storage facilities in lieu of outdoor bike rack fixtures.
- (o) **Access to Public Pathway Along the River.** These requirements are specifically for those properties adjacent to the river to provide a connection to the publicly owned pathway along the river in RIOs 1 through 6. The connections are to stimulate and enhance urban activity, provide path connections in an urban context, enliven street activity, and protect the ambiance and character of the river area.
 - (1) A stair, ramp or elevator connecting the publicly owned pathway at the river to private property along the river is allowed by right at the following locations:
 - A. At all street and vehicular bridge crossings over the river.
 - B. Where publicly owned streets dead end into the river.
 - C. Where the pedestrian pathway in the Riverwalk area is located at the top of bank and there is a two-foot or less grade change between the private property and the pathway.
 - (2) If there is a grade change greater than two (2) feet between the private property and the publicly owned pathway at the river then the following conditions apply:
 - A. Access to the publicly owned pathway is limited to one (1) connection per property, with the exception that connections are always allowed at street and vehicular bridge crossings. For example if one (1) property extends the entire block face from street crossing to street crossing the owner would be allowed three (3) access points if the distance requirements were met.
 - B. The minimum distance between access points shall be ninety-five (95) feet. Only street and vehicular bridge connections are exempted. Mid-block access points must meet this requirement.
 - C. Reciprocal access agreements between property owners are permitted.
 - (3) Clearly define a key pedestrian gateway into the site from the publicly owned pathway at the river or creek with distinctive architectural or landscape elements.
 - A. The primary gateway from a development to the publicly owned pathway at the river shall be defined by an architectural or landscape element made of stone, brick, tile, metal, rough hewn cedar or hand-formed concrete or through the use of distinctive plantings or planting beds.
- (p) **Access to the Public Pathway Along the Creek (RIO-7).** These requirements are specifically for those properties adjacent to the creek to provide a connection to the publicly owned pathway along the creek. The connections are to stimulate and enhance urban activity, provide path connections in an urban context, enliven street activity, and protect the ambiance and character of the creek area.

- (1) Connections from private property to the publically owned pathway must maintain the functionality of publically installed Low Impact Development features like bioswales.
 - (2) At the High Bank Paseo a connection is allowed where there is a grade change of less than two (2) feet.
 - (3) Where bio-swales separate the publicly owned pathway from private property, the maximum length of a connection between the pathway and private property is twelve (12) feet.
 - (4) For properties abutting the creek along the Low Bank Paseo, a publicly accessible path should be built at street level along the creek.
 - A. The path may be a walkway, a series of connected patios or terraces, arcade, canopied walkway, or other connected open spaces provided access from one street-creek intersection to the next street-creek intersection.
 - B. Pathways may be paved with hard-surfaces like concrete, masonry pavers, stone, or compacted material like decomposed granite, gravel, or cement-stabilized-dirt. Paving should be appropriate to the context of the site and use of the path.
 - C. Subject to approvals of San Antonio River Authority and City, the path may connect to the high bank paseo on the opposite bank via a pedestrian bridge. Locating pedestrian bridges at building paseos is encouraged. Pedestrian bridges must be a minimum of two hundred seventy (270) feet apart.
 - D. A stair, ramp or elevator connecting the publicly owned Low Bank Paseo to a publicly accessible path or, when the grade change is more than two (2) feet, the High Bank Paseo to an On-site Open Space is allowed when approved by the San Antonio River Authority. Stairs, ramps, and elevators must be installed outside of the SPCIP right-of-way or easement on private property.
- (q) On-site Open Space. San Pedro Creek offers a unique opportunity to create privately owned, publicly-accessible spaces along the creek. These spaces expand the park space, provide additional connections to the adjacent neighborhoods, mark the intersection of the creek with the surrounding streets, and create additional amenities enhance the creek experience. One or more of the following must be incorporated into a site design pursuant to Table 673-3.
- A. Forecourt— An open space that is part of the building's creek-side entrance. A forecourt shapes the ground floor plan into a 'U' shape. The length along the creek of a forecourts should be at least thirty (30) percent of the length of the building. Forecourts should be at least fifty (50) percent deep as their creek-side length.
 - B. Courtyard— An outdoor space primarily surrounded by a building. Courtyards may be gated but must be visible from the creek through a gate, vision panel, or open-air corridor. Courtyards that are not visible from the creek are allowed but do not count as a mandatory On-Site Open Space.
 - C. Mid-Block Paseos— See Downtown Design Guidelines, chapter 6, paragraph 2.
 - i. Connect from a public street to another public street, public alley or San Pedro Creek.
 - ii. Be at least fifteen (15) feet wide and should be located in the middle one-third ($\frac{1}{3}$) of a block.
 - iii. Be open to the public during normal business hours.
 - iv. Have a clear line of site from the street to the creek or other street.
 - v. Be at least fifty (50) percent open to the sky or covered with a transparent material. Connected courtyards and forecourts may be used as part of this calculation
 - vi. Be lined with some ground floor space designed for retail, restaurant, office, or cultural institution uses for at least twenty-five (25) percent of its frontage.
 - vii. Include at least one gathering place with a fountain or other focal element.
 - viii. Add effective lighting to enhance visibility and safety.
 - D. Arcade— A covered pedestrian passage-way defined by a building wall on one-side and columns or arches on the remaining sides.

- E. Canopy— A covered pedestrian passage-way defined by a building wall on one-side and open on the remaining sides. Canopies may encroach into creek-side setbacks.
- F. Pedestrian Oriented Mid-Block Service Drives and Fire Lanes— Mid-block driveways providing access to parking garages, loading docks, and other service areas or fire lanes required to meet life safety requirements may be required in some development patterns. Where service drives or required fire lanes are visible from the creek, the following landscape features are required:
 - i. A pedestrian path with a clear walking path of six (6) feet is provided.
 - ii. The sidewalk connects the creek to a street or connects two (2) parallel streets.
 - iii. Both sides of the service drive are planted with street trees no more than forty-five feet (45'-0") on-center. Trees may be medium height tree but allow for un-obstructed headroom along the sidewalk.
 - iv. Street trees not protected by a curb must be protected from traffic with bollards, low walls, or other landscape features.
 - v. The view from the sidewalk to dumpsters, service yards, and transformers, and other service and utility areas are screened with a six-foot (6'-0") high wall or landscape buffer.
 - vi. Parallel parking spaces may be provided along the service drive but are not required.
 - vii. Where mid-block service drives or fire lanes are not visible from the creek, connecting them to the creek with a paseo is encouraged but the service drive must have an eight-foot wide, tree lined sidewalk continuing the pedestrian path of the paseo.
- G. Creek and Street Intersection. The intersection of the creek with cross streets is a unique opportunity to provide access to the creek, improve pedestrian access and movement, mark the creek's location in the surrounding neighborhood, expand open space, and the amenity provided by the park.
 - i. Provide a publicly accessible open space of at least six hundred twenty-five (625) square feet at street-creek intersections.
 - ii. Provide a hardscape connection to paseos that are no lower than two (2) feet vertically at street intersections. The minimum dimension of this hardscape intersection is twelve (12) feet by twelve (12) feet.
 - iii. Create a distinctive architectural element such as a tower, change in fenestration, building entrance, multi-level porch, or deep arcade to mark the location of the creek-street intersection.
- (r) RIO-7 Mid-Block Crosswalks and Mid-Block Paseos or Mid-Block Pedestrian Paths are required to provide pedestrian connections from the commercial streets on either side of the creek to the creek in blocks over five hundred fifty (550) [feet] long. New streets or publicly accessible drives and pedestrian paths may be used to meet this requirement.
 - (1) Mid-block crosswalks should be provided on all blocks five hundred fifty (550) feet or longer subject to approval by San Antonio Public Works and or Texas Department of Transportation (TxDOT) if State ROW.
 - (2) Mid-Block Paseos or other mid-block pedestrian access paths should be provided in all blocks five hundred fifty (550) feet or longer adjacent to the creek. Mid-block paseos or paths should connect the creek to mid-block crosswalks, streets that dead-end into the creek, nearby civic buildings, parks, cultural or historic sites as listed in subsection 35-670(b)(4)G, Design Objectives for RIO-7. Alternate path alignments may be allowed by the historic preservation officer if the alternate path meets the goals of subsection 35-670(b)(4)G, Design Objectives for RIO-7.
- (s) New Elevator and Building Access. In order to prevent queuing and inhibition of pedestrian flow on the Riverwalk pathway, a landing that is at minimum six (6) feet in depth shall be provided between an elevator or building access point or doorway and the Riverwalk pathway. The width of the landing shall further comply with ADA (Americans with Disabilities Act) and/or TAS (Texas Accessibility Standards) requirements.

This section provides policies and standards for the design of commercial, multi-family developments in excess of eight (8) units, and single-family developments in excess of five (5) units or five (5) acres, institutional developments, and industrial buildings within the river improvement overlay districts. In general, principles focus on promoting buildings that will be compatible in scale and appear to "fit" in the community by using materials and forms that are part of the San Antonio design traditions. The policies and standards also promote designs that enhance the streets in the area, as well as the Riverwalk, as places for pedestrians. As such, the policies and guidelines address only broad-scale topics and do not dictate specific design solutions, architectural styles, or details with the exception that the standards for "RIO-3" contain more specific requirements.

- (a) **Architectural Character.** A basic objective for architectural design in the river improvement overlay districts is to encourage the reuse of existing buildings and construction of new, innovative designs that enhance the area, and help to establish distinct identities for each of the zone districts. At the same time, these new buildings should reinforce established building traditions and respect the contexts of neighborhoods.

When a new building is constructed, it shall be designed in a manner that reinforces the basic character-defining features of the area. Such features include the way in which a building is located on its site, the manner in which it faces the street and its orientation to the river. When these design variables are arranged in a new building to be similar to those seen traditionally, visual compatibility results.

- (b) **Mass and Scale.** A building shall appear to have a "human scale." In general, this scale can be accomplished by using familiar forms and elements interpreted in human dimensions. Exterior wall designs shall help pedestrians establish a sense of scale with relation to each building. Articulating the number of floors in a building can help to establish a building's scale, for example, and prevent larger buildings from dwarfing the pedestrian.

- (1) Express facade components in ways that will help to establish building scale.

- A. Treatment of architectural facades shall contain a discernable pattern of mass to void, or windows and doors to solid mass. Openings shall appear in a regular pattern, or be clustered to form a cohesive design. Architectural elements such as columns, lintels, sills, canopies, windows and doors should align with other architectural features on the adjacent facades.

- (2) Align horizontal building elements with others in the blockface to establish building scale.

- A. Align at least one (1) horizontal building element with another horizontal building element on the same block face. It will be considered to be within alignment if it is within three (3) feet, measured vertically, of the existing architectural element.

- (3) Express the distinction between upper and lower floors.

- A. Develop the first floor as primarily transparent. The building facade facing a major street shall have at least fifty (50) percent of the street level facade area devoted to display windows and/or windows affording some view into the interior areas. Multi-family residential buildings with no retail or office space are exempt from this requirement.

- (4) Where a building facade faces the street or river and exceeds the maximum facade length allowed in Table 674-1 divide the facade of building into modules that express traditional dimensions.

- A. The maximum length of an individual wall plane that faces a street or the river shall be as shown in Table 674-1.

- B. If a building wall plane facing the street or river and exceeds the length allowed in Table 674-1, employ at least two (2) of the following techniques to reduce the perceived mass:

- Change materials with each building module to reduce its perceived mass; or
- Change the height with each building module of a wall plane. The change in height shall be at least ten (10) percent of the vertical height; or
- Change the roof form of each building module to help express the different modules of the building mass; or

- Change the arrangement of windows and other facade articulation features, such as, columns, pilasters or strap work, which divides large planes into smaller components.

(5) Organize the Mass of a Building to Provide Solar Access to the River. (see Figure 674-1).

- A. One (1) method of doing so is to step the building down toward the river to meet the solar access requirements of subsection 35-673(a).
- B. Another method is to set the building back from the river a distance sufficient to meet the solar access requirements of subsection 35-673(a).

(6) Except in RIO-3, for properties greater than three (3) sides abutting the river, organize the mass of the building(s) to create a courtyard facing the river with one (1) open side to the river.

(c) Height. Building heights vary along the river corridor, from one-story houses to high-rise hotels and apartments. This diversity of building heights is expected to continue. However, within each zone, a general similarity in building heights should be encouraged in order to help establish a sense of visual continuity. In addition, building heights shall be configured such that a comfortable human scale is established along the edges of properties and views to the river and other significant landmarks are provided while allowing the appropriate density for an area.

(1) The maximum building height shall be as defined in Table 674-2.

- A. Solar access standards subsection 35-673(a), and massing standards subsection 35-674(b) also will affect building heights.

(2) Organize the mass of the building to step back from established residential neighborhoods. Where a commercial, mixed-use residential, multi-family or industrial use abuts a single-family residential development, or is across the street from a single-family residential development, the following standards shall apply:

The massing of the building shall not exceed twenty-five (25) feet in height at the setback line. The building mass can continue upward within a forty-five-degree building envelope for a distance of fifty (50) feet measured horizontally from the building face, at which point the building massing may continue vertically to the height established in subsection 35-674(c).

(3) On the street-side, the building facade shall appear similar in height to those of other buildings found traditionally in the area.

If fifty (50) percent of the building facades within a block face are predominantly lower than the maximum height allowed, the new building facade on the street-side shall align with the average height of those lower buildings within the block face, or with a particular building that falls within the fifty (50) percent range. However, the remainder of the building may obtain its maximum height by stepping back fifteen (15) feet from the building face.

(4) Designation of a development node provides for the ability to increase the building height by fifty (50) percent from the requirements set out in article VI.

(d) Materials and Finishes. Masonry materials are well established as primary features along the river corridor and their use should be continued. Stucco that is detailed to provide a texture and pattern, which conveys a human scale, is also part of the tradition. In general, materials and finishes that provide a sense of human scale, reduce the perceived mass of a building and appear to blend with the natural setting of the river shall be used, especially on major structures.

(1) Use indigenous materials and traditional building materials for primary wall surfaces. A minimum of seventy-five (75) percent of walls (excluding window fenestrations) shall be composed of the following:

- A. Modular masonry materials including brick, stone, and rusticated masonry block, tile, terra-cotta, structural clay tile and cast stone. Concrete masonry units (CMU) are not allowed.
- B. Other new materials that convey the texture, scale, and finish similar to traditional building materials.

- C. Stucco and painted concrete when detailed to express visual interest and convey a sense of scale.
 - D. Painted or stained wood in a lap or shingle pattern.
- (2) The following materials are not permitted as primary building materials and may be used as a secondary material only:
- A. Large expanses of high gloss or shiny metal panels.
 - B. Mirror glass panels. Glass curtain wall buildings are allowed in RIO-3 as long as the river and street levels comply with 35-674(d)(1) above.
- (3) Paint or Finish Colors.
- A. Use natural colors of indigenous building materials for properties that abut the Riverwalk area.
 - B. Use matte finishes instead of high glossy finishes on wall surfaces. Wood trim and metal trim may be painted with gloss enamel.
 - C. Bright colors may highlight entrances or architectural features.

- (e) Facade Composition. Traditionally, many commercial and multi-family buildings in the core of San Antonio have had facade designs that are organized into three (3) distinct segments: First, a "base" exists, which establishes a scale at the street level; second a "mid-section," or shaft is used, which may include several floors. Finally a "cap" finishes the composition. The cap may take the form of an ornamental roof form or decorative molding and may also include the top floors of the building. This organization helps to give a sense of scale to a building and its use should be encouraged.

In order to maintain the sense of scale, buildings should have the same setback as surrounding buildings so as to maintain the street-wall pattern, if clearly established.

In contrast, the traditional treatment of facades along the riverside has been more modest. This treatment is largely a result of the fact that the riverside was a utilitarian edge and was not oriented to the public. Today, even though orienting buildings to the river is a high priority objective, it is appropriate that these river-oriented facades be simpler in character than those facing the street.

- (1) Street Facade. Buildings that are taller than the street-wall (sixty (60) feet) shall be articulated at the stop of the street wall or stepped back in order to maintain the rhythm of the street wall. Buildings should be composed to include a base, a middle and a cap.
- A. High rise buildings, more than one hundred (100) feet tall, shall terminate with a distinctive top or cap. This can be accomplished by:
 - i. Reducing the bulk of the top twenty (20) percent of the building by ten (10) percent.
 - ii. By stepping back the top twenty (20) percent of the building.
 - iii. Changing the material of the cap.
 - B. Roof forms shall be used to conceal all mechanical equipment and to add architectural interest to the structure.
 - C. Roof surfaces should include strategies to reduce heat island effects such as use of green roofs, photo voltaic panels, and/or the use of roof materials with high solar reflectivity.
- (2) Fenestration. Windows help provide a human scale and so shall be proportioned accordingly.
- A. Windows shall be recessed at least two (2) inches within solid walls (not part of a curtain wall system).
 - B. Windows should relate in design and scale to the spaces behind them.
 - C. Windows shall be used in hierarchy to articulate important places on the facade and grouped to establish rhythms.
 - D. Curtain wall systems shall be designed with modulating features such as projecting horizontal and/or vertical mullions.

- (3) Entrances. Entrances shall be easy to find, be a special feature of the building, and be appropriately scaled.
 - A. Entrances shall be the most prominent on the street side and less prominent on the river side.
 - B. Entrances shall be placed so as to be highly visible.
 - C. The scale of the entrance is determined by the prominence of the function and or the amount of use.
 - D. Entrances shall have a change in material and/or wall plane.
 - E. Entrances should not use excessive storefront systems.
- (4) Riverside facade. The riverside facade of a building shall have simpler detailing and composition than the street facade.
 - A. Architectural details such as cornices, sills, lintels, door surrounds, water tables and other similar details should use simple curves and handcrafted detailing.
 - B. Stone detailing shall be rough hewn, and chiseled faced. Smooth faced stone is not permitted as the primary building material, but can be used as accent pieces.
 - C. Facades on the riverside shall be asymmetrical, pedestrian scale, and give the appearance of the back of a building. That is, in traditional building along the river, the backs of building were designed with simpler details, and appear less formal than the street facades.
- (f) Staircases.
 - (1) Staircases to the River Level Shall be Uniquely Designed.
 - A. Stairs shall not replicate other stairs in a single project.
 - B. Stairs shall be constructed of handcrafted materials. The applicant shall use traditional building materials.
 - C. Stairs shall not exceed ten (10) feet in width.
- (g) Awnings, Canopies and Arcades. (See Figure 674-2) The tradition of sheltering sidewalks with awnings, canopies and arcades on commercial and multi-family buildings is well established in San Antonio and is a practice that should be continued. They offer shade from the hot summer sun and shelter from rainstorms, thereby facilitating pedestrian activity. They also establish a sense of scale for a building, especially at the ground level. Awnings and canopies are appropriate locations for signage. Awnings with signage shall comply with any master signage plan on file with the historic preservation officer for the property. Awnings and canopies installed at street level within the public right-of-way require licensing with the city's capital improvements management services (CIMS) department. Canopies, balconies and awnings installed at river level within the public right-of-way require licensing with the city's downtown operations department.
 - (1) If awnings, arcades and canopies are to be used they should accentuate the character-defining features of a building.
 - A. The awning, arcade or canopy shall be located in relationship to the openings of a building. That is, if there are a series of awnings or canopies, they shall be located at the window or door openings. However awnings, canopies and arcades may extend the length of building to provide shade at the first floor for the pedestrian.
 - B. Awnings, arcades and canopies shall be mounted to highlight architectural features such as moldings that may be found above the storefront.
 - C. They should match the shape of the opening.
 - D. Simple shed shapes are appropriate for rectangular openings.
 - E. Odd shapes and bubble awnings are prohibited except where the shape of an opening requires a bubble awning, or historic precedent shows they have been previously used on the building.

- F. Canopies, awnings and arcades shall not conflict with the building's proportions or with the shape of the openings that the awning or canopy covers.
- G. Historic canopies shall be repaired or replaced with in-kind materials.
- (2) Materials and Color.
 - A. Awnings and canopies may be constructed of metal, wood or fabric. Certain vinyl is allowed if it has the appearance of natural fiber as approved by the HDRC.
 - B. Awning color shall coordinate with the building. Natural and earth tone colors are encouraged. Fluorescent colors are not allowed. When used for signage it is appropriate to choose a dark color for the canopy and use light lettering for signage.
- (3) Incorporating lighting into the design of a canopy is appropriate.
 - A. Lights that illuminate the pedestrian way beneath the awning are appropriate.
 - B. Lights that illuminate the storefront are appropriate.
 - C. Internally illuminated awnings that glow are prohibited.

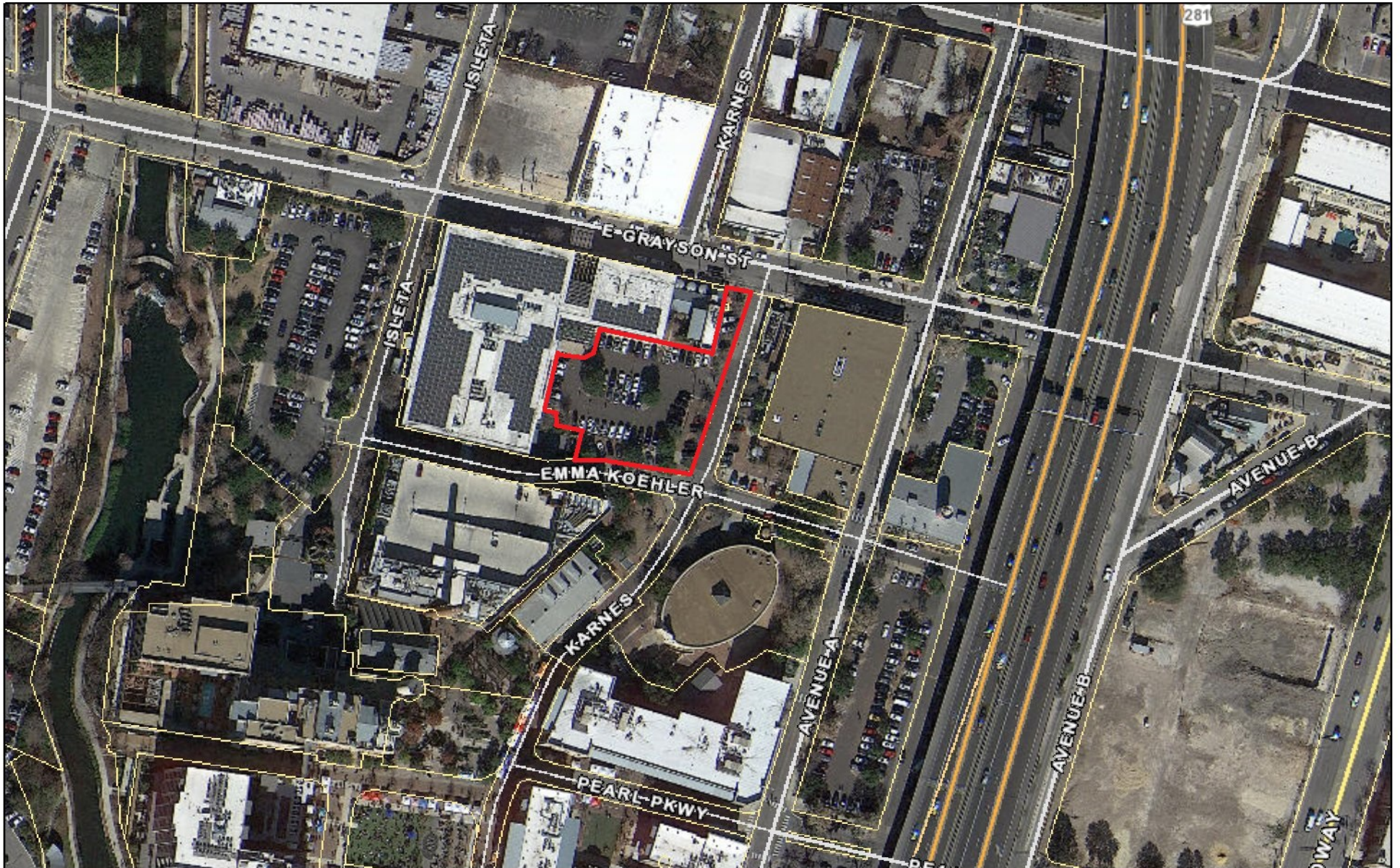
FINDINGS:

- a. The applicant is requesting a Certificate of Appropriateness for approval to install a park plaza to include water features and a public restroom in the location of an existing parking lot to the northwest of the intersection of E Grayson and Emma Koehler at Pearl.
- b. PLAZA & WATER FEATURE– The applicant has proposed to install a park plaza and water feature. The proposed plaza and water feature will materials that are consistent with those currently found in the immediate vicinity; cast in place concrete, brick paving and other modular masonry elements. Staff finds the proposed materials and design to be appropriate and consistent with the UDC.
- c. RESTROOM STRUCTURES – The applicant has proposed to construct two restroom structures to be located within the proposed plaza. The proposed restroom structures will feature brick facades with detailing consistent with that found on site in the immediate vicinity. Staff finds the proposed construction of the restroom structures as well as the proposed materials to be appropriate and consistent with the UDC.

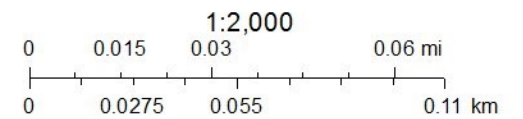
RECOMMENDATION:

Staff recommends approval as submitted based on findings a through c.

City of San Antonio One Stop



May 28, 2021



1100 SPRINGS PARK

RESTROOM SPEC OUTLINE – 50% CD DRAFT

1. Floor
 - a. Concrete slab foundation
 - i. Finish and sealer to be coordinated with ownership upon final review of slip coefficient requirements
2. Walls
 - a. Exterior
 - i. Brick (pending approval of samples)
 1. Modular Running Bond with Header course every 7 courses
 - a. Header course will include 12" bricks per pattern shown in interior elevations. These 12" brick are to be utilized as masonry ties between the exterior brick and interior structural clay block
 2. Parapet to include profiled brick as shown
 3. Material
 - a. Basis of Design – Salvaged Chicago Brick
 - b. Alternate 1 – Old Texas Brick "Old Chicago" blend
 - c. Alternate 2 – Hebron "Speak Easy" modified Pearl blend (see recipe at end of document)
 - ii. Cast Stone
 1. Cast stone cap at top of parapet (18" wide by standard coursing length TBD)
 - a. Color TBD – assume a buff gray to match concrete if required at this time
 - b. Interior
 - i. D'hanis Structural Clay Tile
 1. Interior wall is constructed of structural clay block in a vertical pattern as follows:
 - a. Two (2) courses of 8" X 8" X 12" D'Hanis structural clay block
 - b. One (1) course of 2 ¼" X 8" X 8" D'hanis structural clay block with spaced 12" header brick from exterior wall located per interior elevations
 - ii. Concrete bond beam or other bond beam as engineered (forthcoming in 100% CD set)
 - c. NOTE: Header course below offset at top of structure shows openings where the header courses are omitted – see drawings for layout
 - i. Provide monies for chicken wire infill to prevent animals from nesting
3. Ceiling
 - i. 3X8 Tongue and Groove decking – douglas fir stained with Valhall Lifetime Wood Treatment
4. Roof
 - a. 60mm TPO roof membrane
 - b. 2" to 6" tapered insulation above ½" plywood deck on T&G ceiling

- c. 2 scuppers located on south side of restroom buildings
- 5. Doors
 - a. Three (3) 3'-0" X 7'-9" (3/8" undercut) metal doors with paneling per drawings
- 6. Windows
 - a. Two (2) 2'-8" X 4'-8" opening in brick with 0.5" thick perforated steel plate inlay.
Perforation pattern to have continuous solid border (may require custom water jetting)
- 7. Lintels
 - a. Cast in place / pre-cast concrete lintels
 - i. Windows
 - 1. 8" tall, 14" depth, 3'-4" length (x2)
 - ii. Doors
 - 1. 8" tall, 14" depth, 3'-8" length (x3)
 - iii. Entry
 - 1. 8" tall, 14" depth, 4'-4" length (x2)
- 8. Entry Gate
 - a. Two (x2) 5'X10' custom sliding gate mounted to exterior façade. See drawings for latest design intent
- 9. Lavatory
 - a. Custom pre-cast / cast stone (fabricator recommendation) trough style sink per drawings
- 10. Pergola
 - a. Two (2) 3" OD steel pipe portal per drawings
 - b. Two (2) W6 beams (exact designation to be coordinated with structural)
 - c. Two (2) W4 beams (exact designation to be coordinated with structural)
 - d. One (1) 0.5" steel plate deck that covers 14'-8" X 14'-8" area
 - i. Steel plate has 4'-0" square opening in center
 - ii. Total area can be comprised of multiple plates welded together, but would like to minimize visibility of seams
 - e. One (1) 5'-4" square plexiglass sheet above square opening
 - i. Mounted with pins at 4 corners (TBD)
 - f. Included monies for 1" X 0.5" flat bar 'curbs' at edges of steel plate and opening to direct water to South of pergola
- 11. Restroom Accessories
 - a. Faucets (two options shown as we finalize custom lavatory design)
 - i. Kohler Purist
 - 1. Wall mount, touchless
 - 2. Finish – vibrant stainless
 - ii. TOTO Helix Faucet
 - 1. Wall mount, touchless
 - b. Soap Dispensers (two options shown as we finalize custom lavatory design)
 - i. Kohler Composed
 - 1. Wall mount, touchless
 - 2. Finish – vibrant stainless
 - ii. TOTO sensor operated soap dispenser

1. Counter mount, touchless
 - c. Toilet
 - i. TOTO Commercial Flushometer Top Spud Wall-Hung Toilet (CT708U(G)X)
 - ii. TOTO Exposed EcoPower Flush Valve
 - iii. May require additional proprietary installation frame. Verify with manufacturer
 - d. Urinal
 - i. TOTO High Efficiency Washout Urinal (UT105U(G)X)
 - ii. TOTO Exposed EcoPower Flush Valve
 - iii. May require additional proprietary installation frame. Verify with manufacturer
 - e. Paper Towel / Trash Unit
 - i. Bobrick Recessed Convertible Automatic Universal Roll Paper Towel Dispenser and Waste Receptacle (B-39747)
 - ii. Trash and paper towel unit to be installed in custom decorative steel pedestal
 - f. Partitions
 - i. Basis of Design – custom steel / aluminum partitions to mimic decorative elements of entry gate
 1. Where perforation is shown please assume solid plate material for partitions
 - ii. Alternate – ASI Stainless Steel partitions (architect to coordinate ground mount vs. ceiling mount with ownership) Assume #4 Satin finish.
 - g. Mop Sink
 - i. 21" X 27" X 10.5" mop sink with 4" drain
 1. Architect to review spec with ownership
 - a. Integrated into slab as concrete.
 - b. Standalone stainless steel fixture
 - ii. Faucet and additional equipment TBD
12. Drinking Fountain
- a. Two (2) Elkay Model LK4420BF1UDBFRK

File: R:\2020\Projects\010089 - 1100 Springs Park, San Antonio, TX\Engineering\CAD\Drawings\WF 001 SITE PLAN
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01

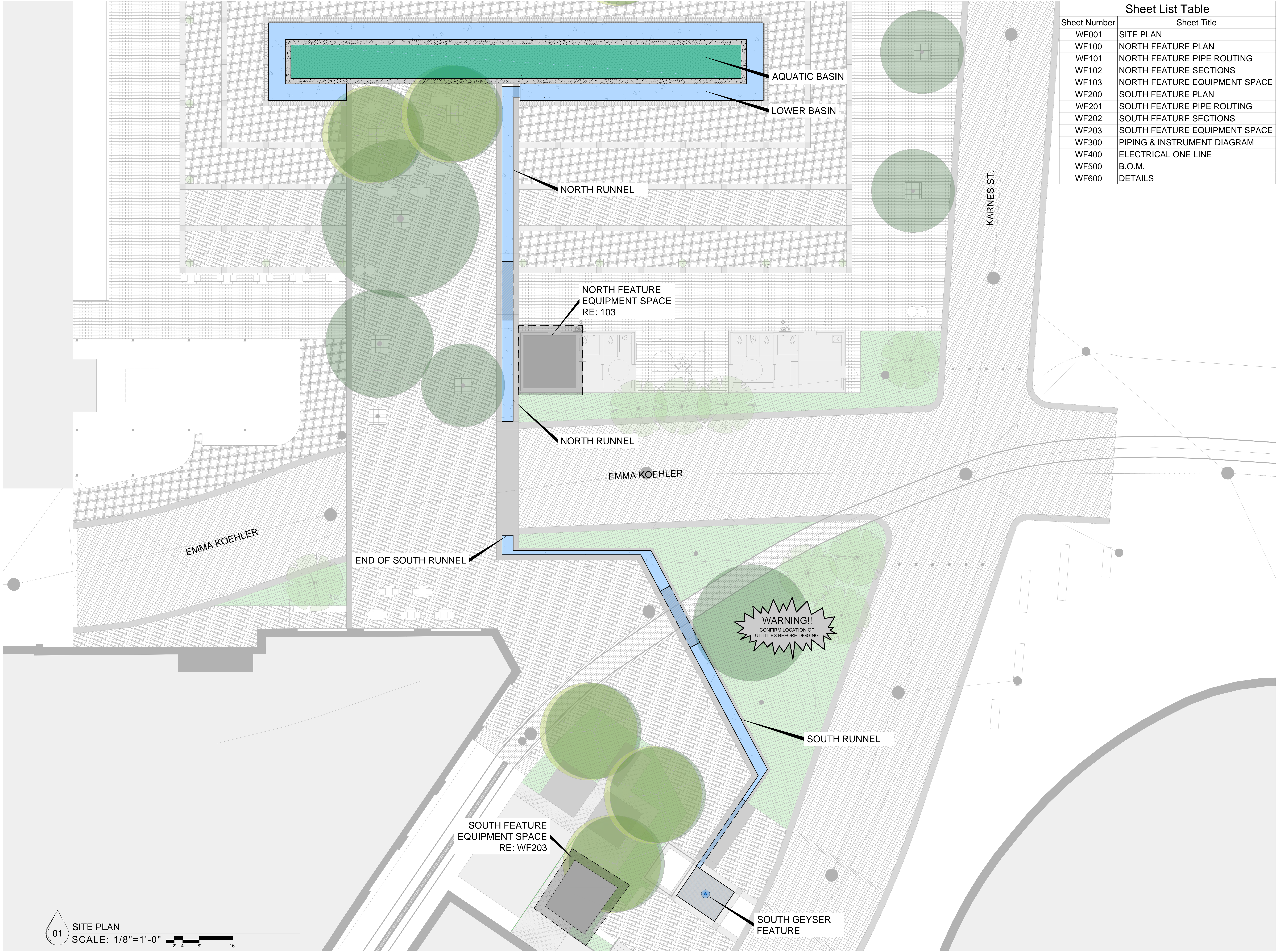
SITE PLAN
SCALE: 1/8"=1'-0"

2'

4'

8'

16'



Sheet List Table	
Sheet Number	Sheet Title
WF001	SITE PLAN
WF100	NORTH FEATURE PLAN
WF101	NORTH FEATURE PIPE ROUTING
WF102	NORTH FEATURE SECTIONS
WF103	NORTH FEATURE EQUIPMENT SPACE
WF200	SOUTH FEATURE PLAN
WF201	SOUTH FEATURE PIPE ROUTING
WF202	SOUTH FEATURE SECTIONS
WF203	SOUTH FEATURE EQUIPMENT SPACE
WF300	PIPING & INSTRUMENT DIAGRAM
WF400	ELECTRICAL ONE LINE
WF500	B.O.M.
WF600	DETAILS

STATE OF TEXAS

JEFF CHAPMAN

98573

LICENSED PROFESSIONAL ENGINEER


04/19/2021

Don McDonald, Architect AIA Ltd.

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DESIGN INC.

SITE PLAN

50% CONSTRUCTION DOCUMENTS
FOR PERMIT ONLY

1100 Springs Park

Pearl Campus

San Antonio, TX 78209

WF001

File: R:\0000 Projects\000009 1100 Springs Park, San Antonio, TX\05Engineering\04\0000\WF 100 NORTH FEATURE PLAN
Project: 01/01/2021 10:00 AM by Chris Green, Scaled: 4/10/2021 4:02 PM by Tjg

01

NORTH FEATURE PLAN

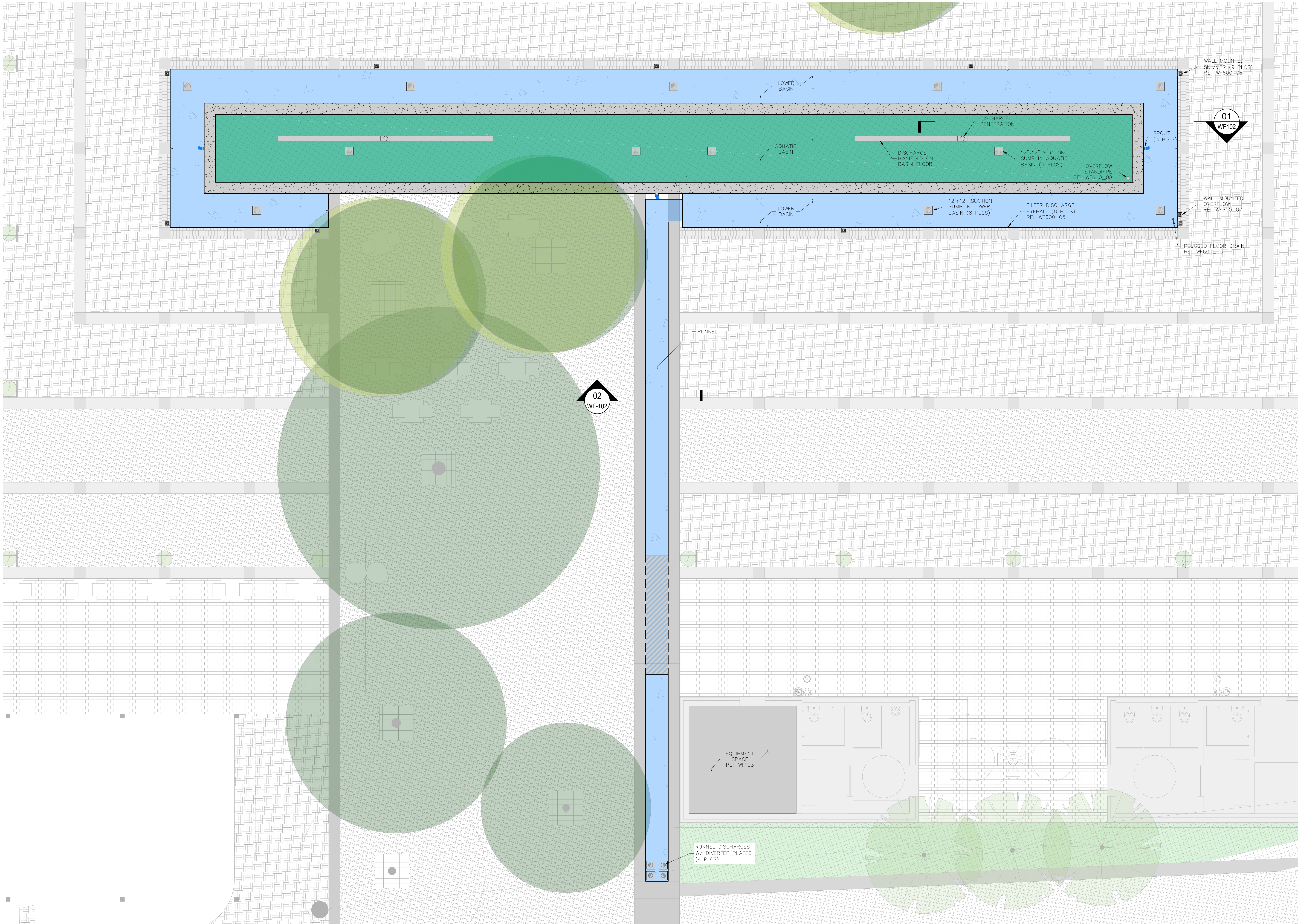
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1'

2'

4'

8'



STATE OF TEXAS

JEFF CHAPMAN

98373

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NORTH FEATURE PLAN

50% CONSTRUCTION DOCUMENTS
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1100 Springs Park

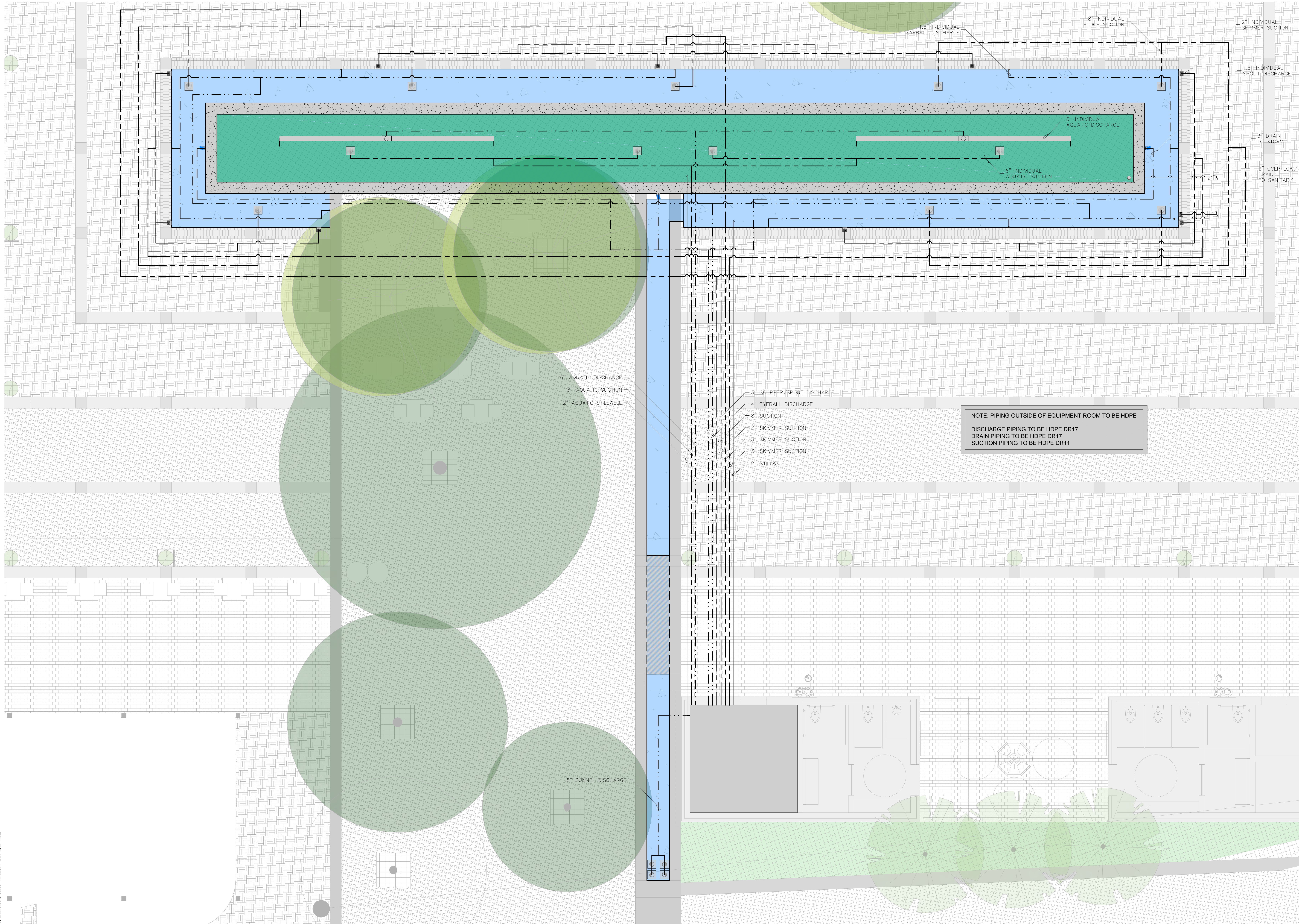
Pearl Campus



San Antonio, TX 78209

WF100

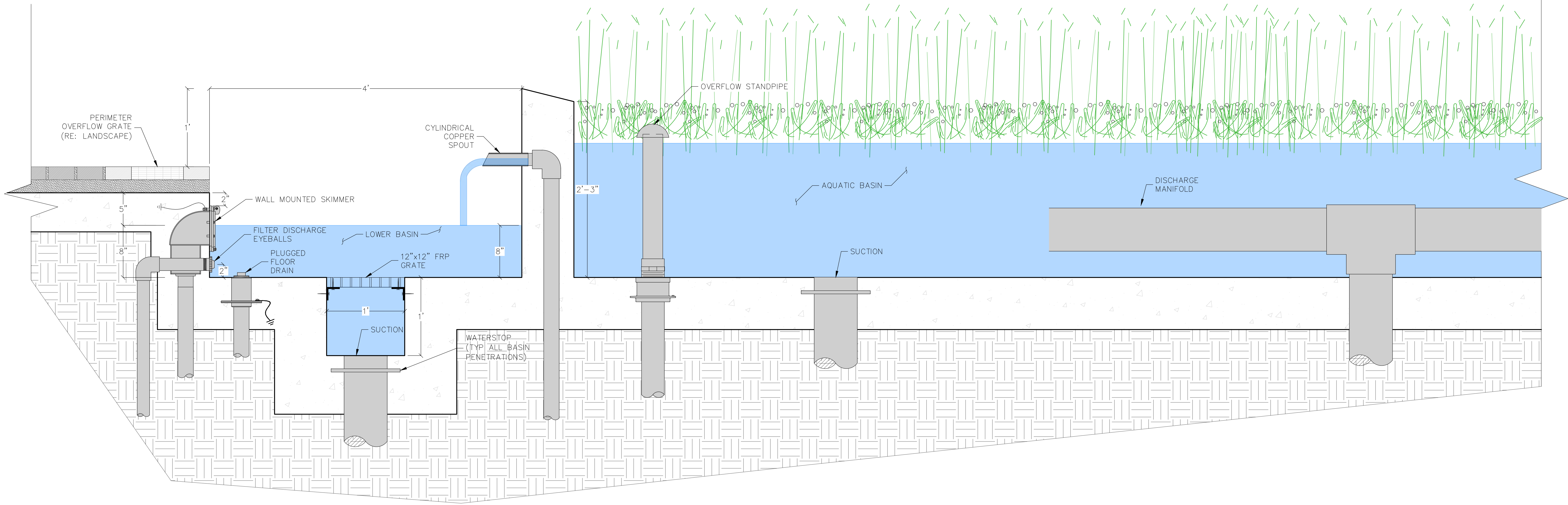
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01 NORTH FEATURE PIPE ROUTING
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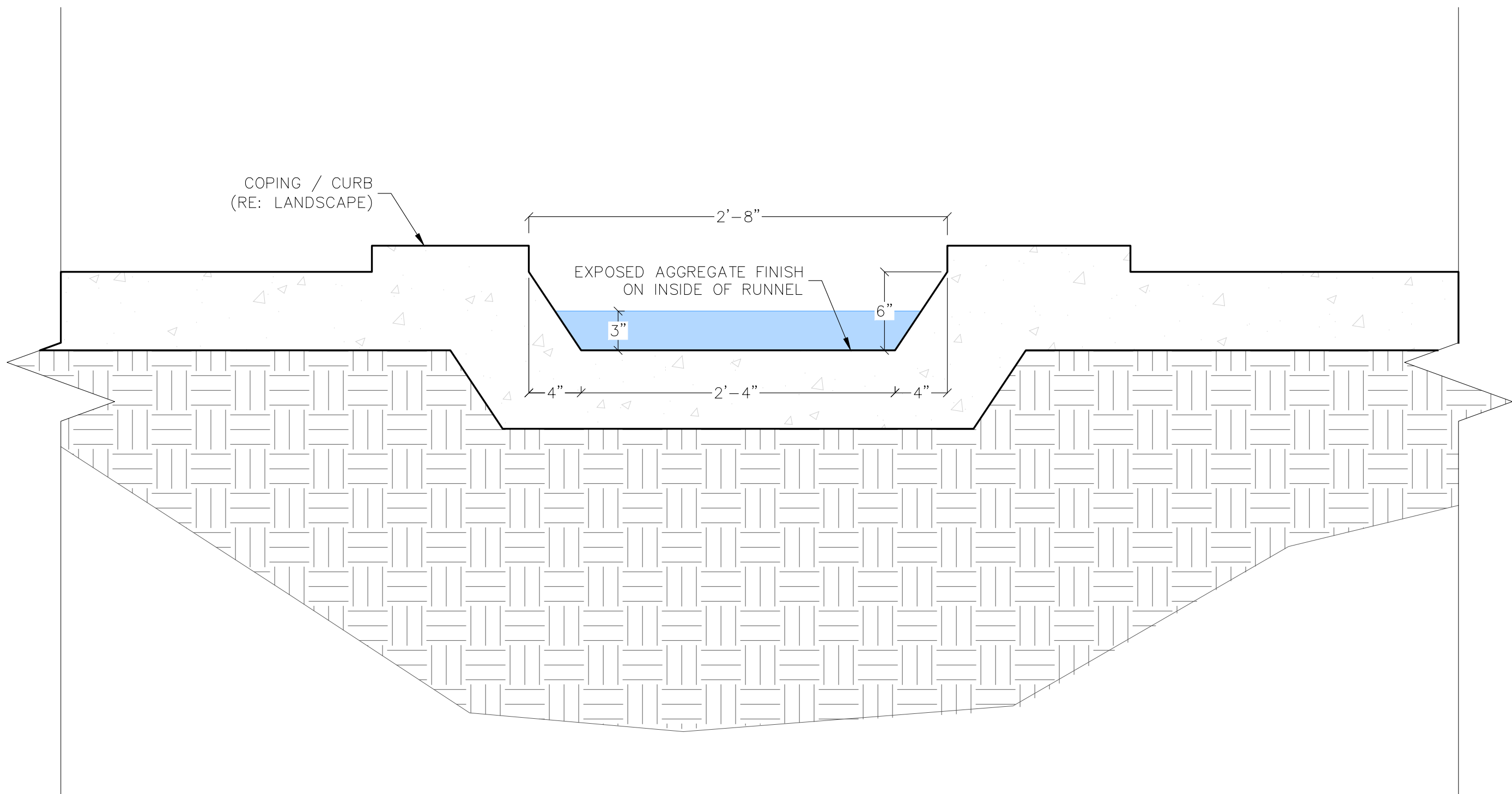


 04/19/2021 Don McDonald, Architect AIA Ltd. 2121 North Main Avenue San Antonio, Texas 78212 (210) 355-9722
 GPSI GREENSCAPEPUMP.COM Sustainable. Aesthetic. Water Technology. <small>1405 Whitlock Lane, Suite 100 Coppell, Texas 75019 Ph: 817-466-0077 Fax: 817-466-0119 Greenscape Pump Services and Pumps, Inc.</small>
NORTH FEATURE PIPE ROUTING 50% CONSTRUCTION DOCUMENTS FOR PERMIT ONLY
1100 Springs Park Pearl Campus San Antonio, TX 78209
WF101

File: R:\0200 Projects\020009 1100 Springs Park, San Antonio, TX\Engineering\CAD\Sheet\WF 102 NORTH FEATURE SECTIONS
Plotted: 4/19/2021 10:59 AM by Chris Green, Scaled: 4/19/2021 10:59 AM by 1/160



01 SECTION - NORTH FEATURE
SCALE: 1 1/2"=1'-0"



02 SECTION - RUNNEL
SCALE: 1 1/2"=1'-0"



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NORTH FEATURE SECTIONS
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1100 Springs Park
Pearl Campus
San Antonio, TX 78209

WF102

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Project: 2010089 1100 Springs Park, San Antonio, TX
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Date: 4/19/2021 4:25 PM by TJP

01

EQUIPMENT ROOM LAYOUT

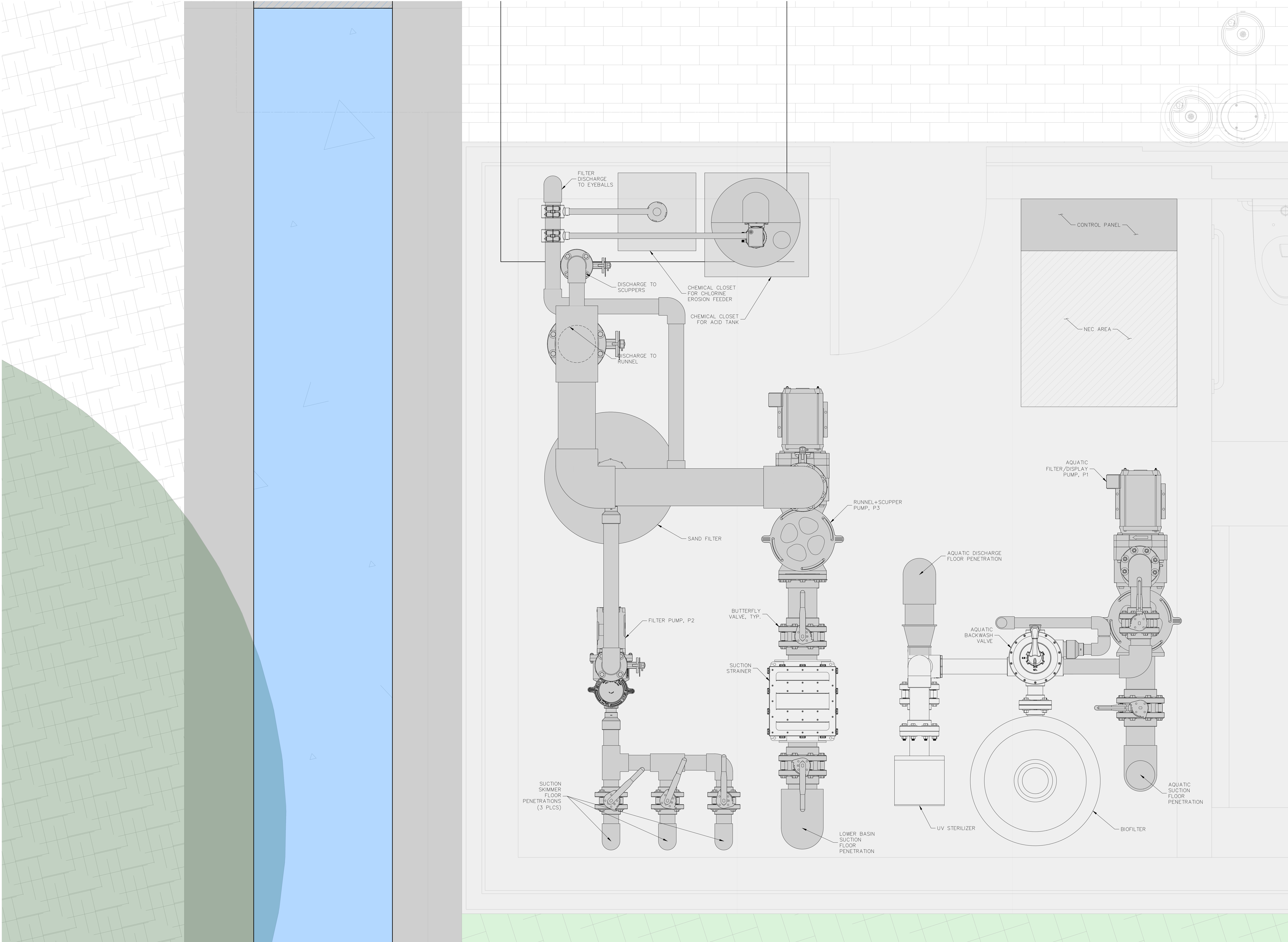
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1'

6'

1'

2'



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NORTH FEATURE EQUIPMENT SPACE

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WF103

File: R:\0200 Projects\020008 1100 Springs Park, San Antonio, TX\Engineering\CAD\Sheet\WF 200 SOUTH FEATURE PLAN
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Sheet: WF 200 SOUTH FEATURE PLAN
Date: 4/19/2021 10:51 AM by Tjg



01 SOUTH FEATURE PLAN
SCALE: 1/4"=1'-0"



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SOUTH FEATURE PLAN 50% CONSTRUCTION DOCUMENTS FOR PERMIT ONLY
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WF200

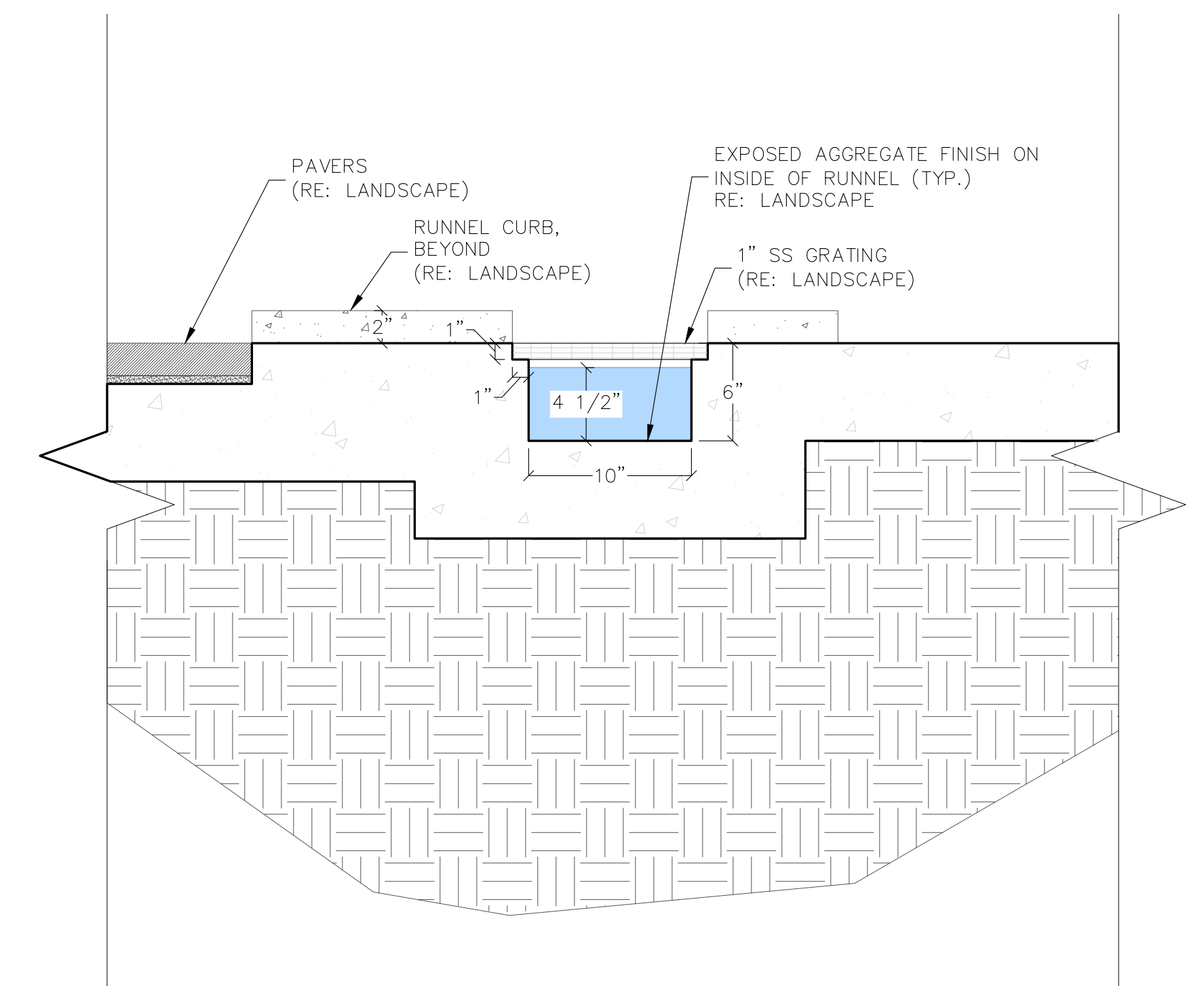
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Project: 000009 1100 Springs Park, San Antonio, TX
Sheet: WF 201 SOUTH FEATURE PIPE ROUTING
Date: 04/19/2021



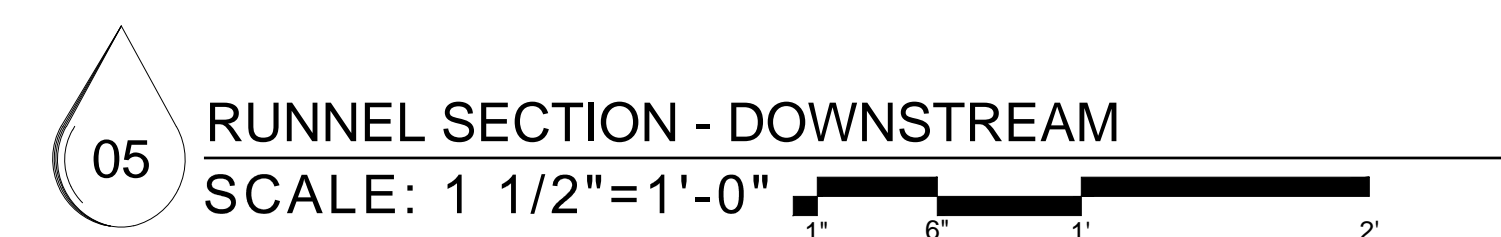
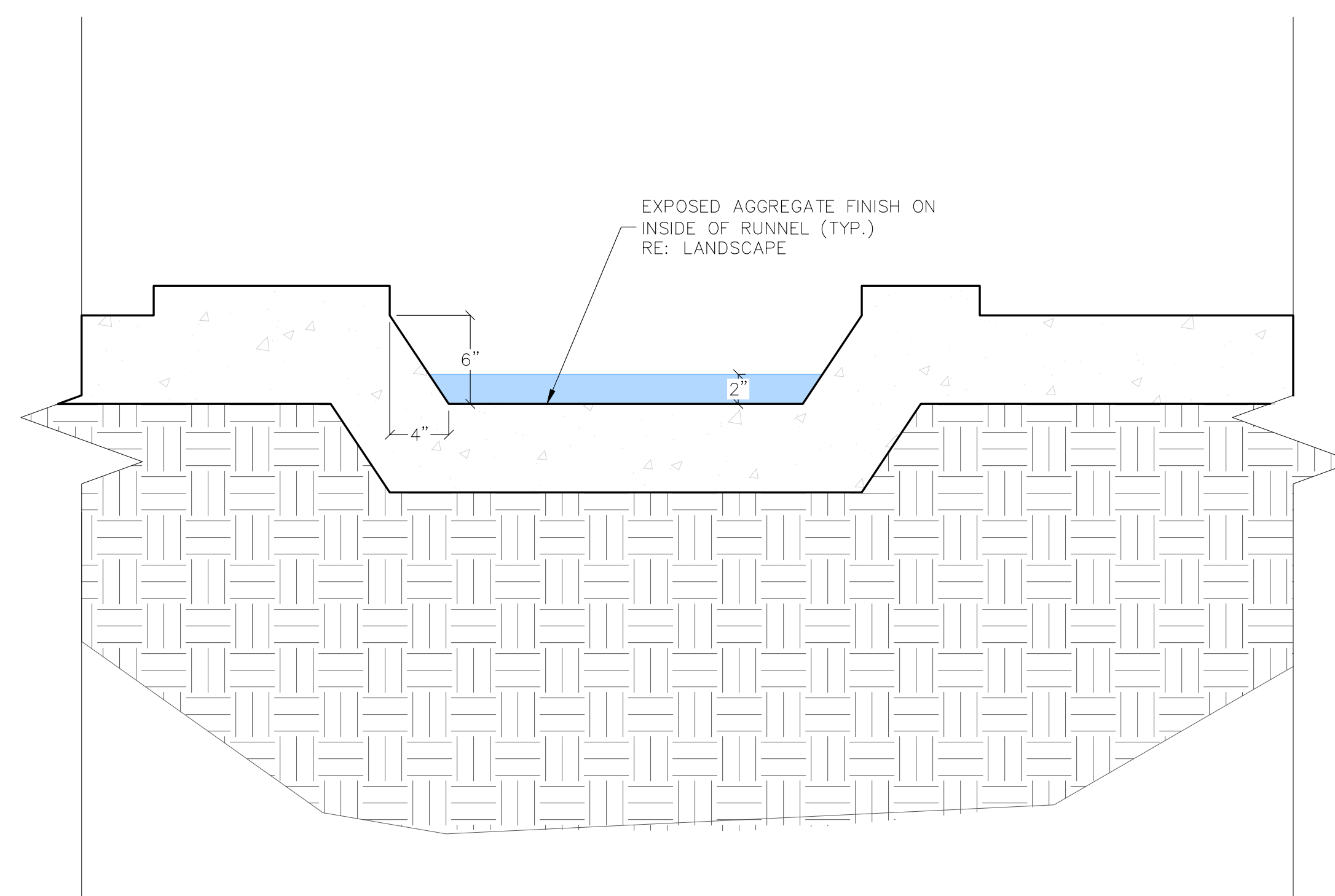
01 SOUTH FEATURE PIPE ROUTING
SCALE: 1/4"=1'-0"



<p>04/19/2021</p>	<p>Don McDonald, Architect AIA Ltd. 2121 North Main Avenue San Antonio, Texas 78212 (210) 755-9722</p>	<p>GPSI GREENSCAPEPUMP.COM Sustainable. Analytical. Water Technology. 1405 Wharton Lane, Suite 100 Crown Point, Texas 77336 Ph: 832-466-0007 Fax: 832-466-0013 Greenscape Pump Services are provided by GPSI, Inc.</p>	<p>SOUTH FEATURE PIPE ROUTING</p> <p>50% CONSTRUCTION DOCUMENTS FOR PERMIT ONLY</p>	<p>1100 Springs Park Pearl Campus San Antonio, TX 78209</p>	<p>WF201</p>
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02 RUNNEL SECTION - UPSTREAM
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Sheet: WF 203 SOUTH FEATURE EQUIPMENT SPACE
Date: 04/19/2021



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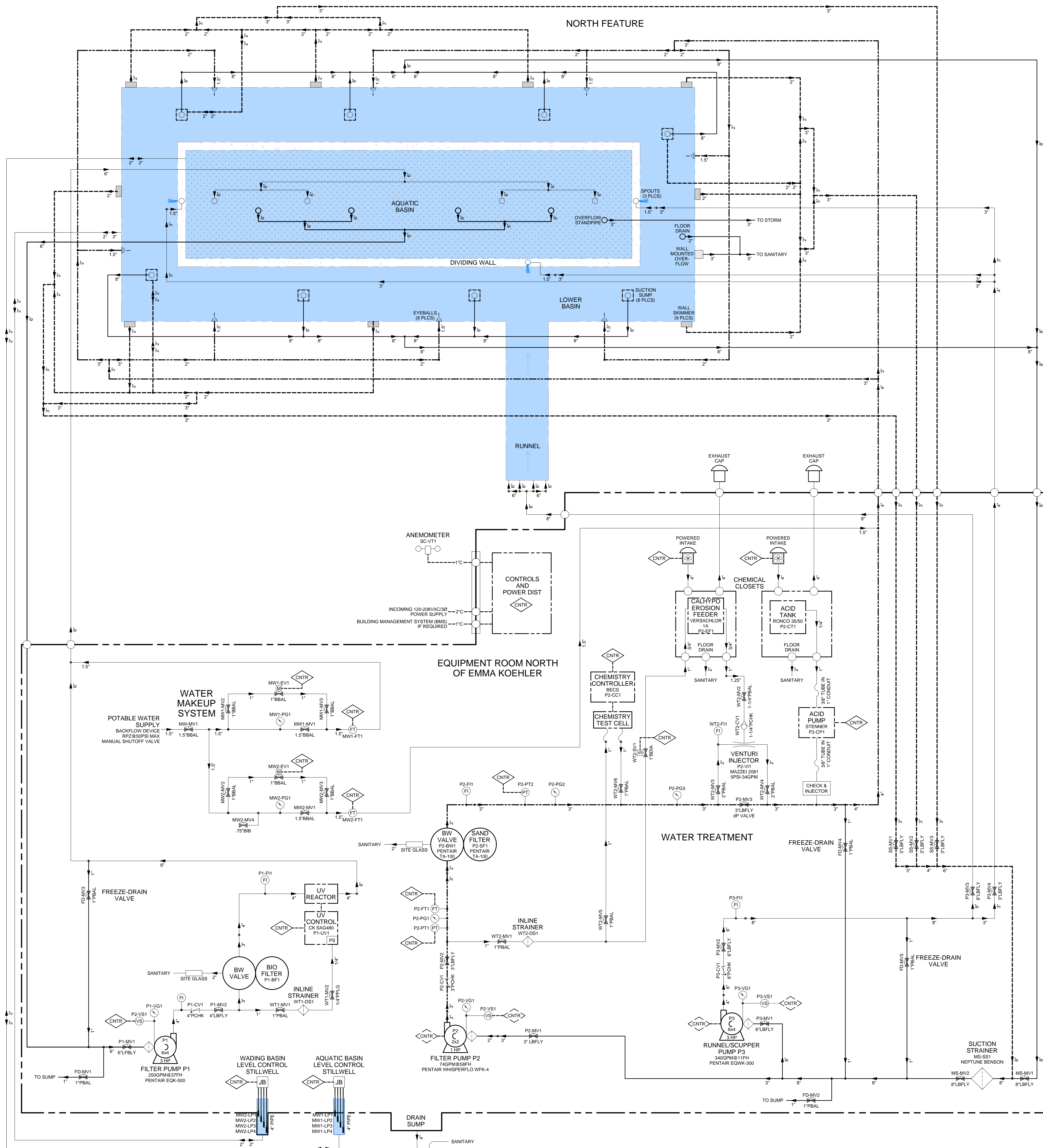
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WF203

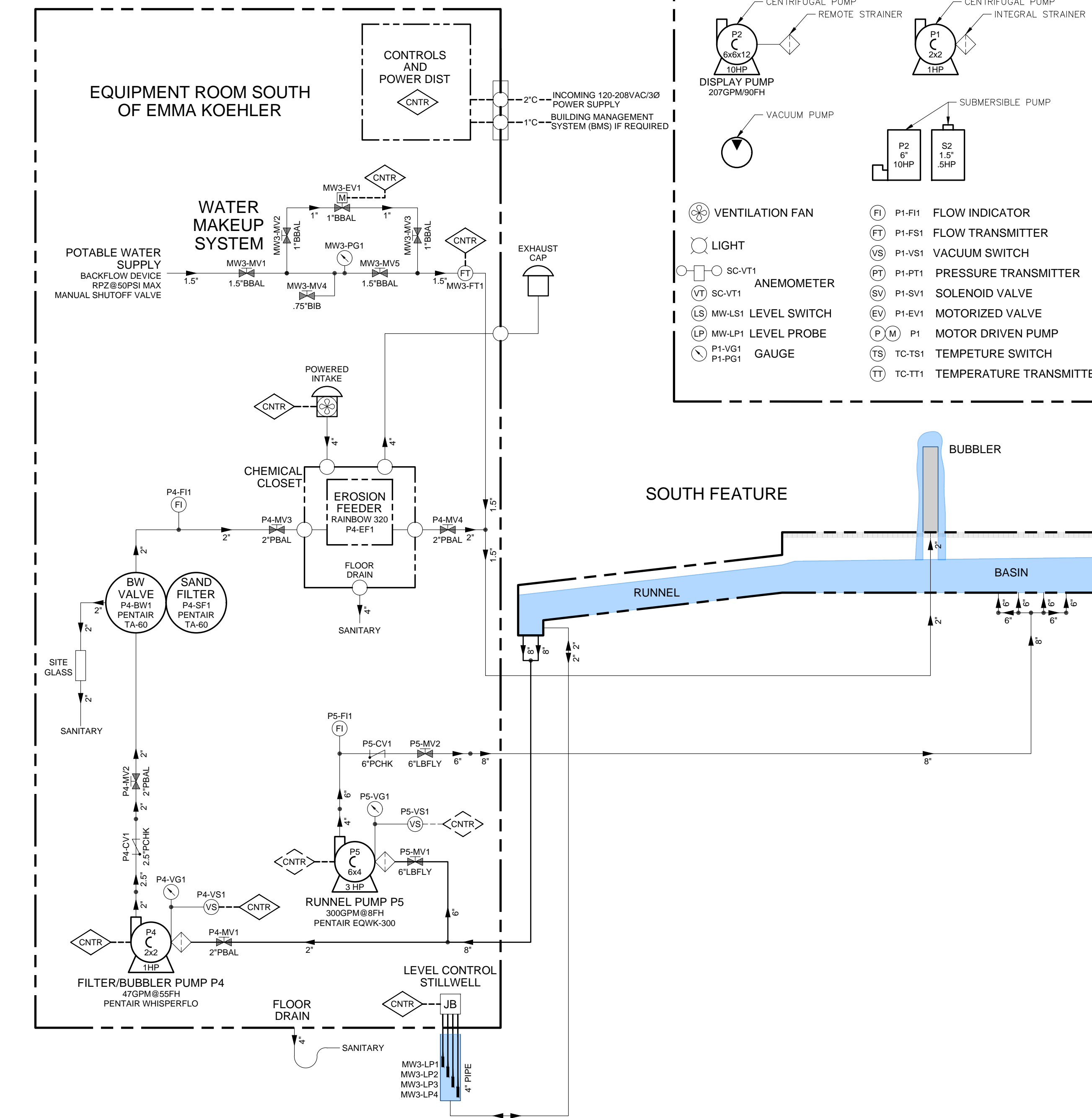
01 PIPING & INSTRUMENT DIAGRAM - NORTH FEATURE
SCALE: N.T.S.



NORTH AQUATIC FEATURE PERFORMANCE			
TOTAL WATER VOLUME	22,889	GAL	
BIO FILTER - AQUA ULTIMA SIDE MOUNT 30,000	250	GPM	
TURNOVER RATE	1.53	HRS	
FILTER PUMP, P1 - 5 HP PENTAIR EQK-500	250	GPM	37 TDH

NORTH LOWER BASIN + RUNNEL PERFORMANCE			
TOTAL WATER VOLUME	5,900	GAL	
SAND FILTER - TAGELUS TA 100D	74	GPM	
TURNOVER RATE	1.34	HRS	
FILTER/SPOUT PUMP, P2 - 1 HP PENTAIR WHISPERFLO WFK-4	74	GPM	59 TDH
RUNNEL EFFECT	300	GPM	2 INCH FLOW
SPOUT / SCUPPER EFFECT	40	GPM	2 SPOUTS
RUNNEL + SCUPPER PUMP, P3 - 3 HP PENTAIR EQWK-300	340	GPM	11 TDH
TOTAL FLOW	414	GPM	

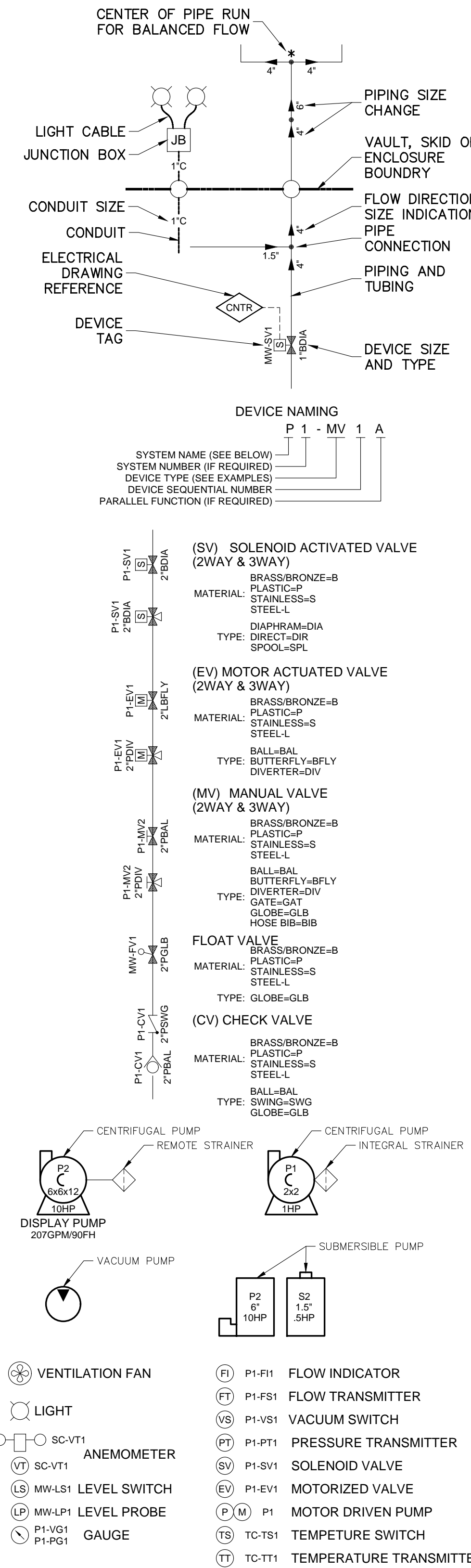
SOUTH BUBBLER + RUNNEL PERFORMANCE			
TOTAL WATER VOLUME	2539	GAL	
SAND FILTER - TAGELUS TA-60	47	GPM	
TURNOVER RATE	0.91	HRS	
DISPLAY BUBBLER	47	GPM	5 FH
FILTER/DISPLAY PUMP, P4 - 1 HP PENTAIR WHISPERFLO WFK-4	47	GPM	57 TDH
RUNNEL EFFECT	300	GPM	4 INCH FLOW
RUNNEL PUMP, P5 - 3 HP PENTAIR EQWK-300	300	GPM	8 TDH
TOTAL FLOW	347	GPM	

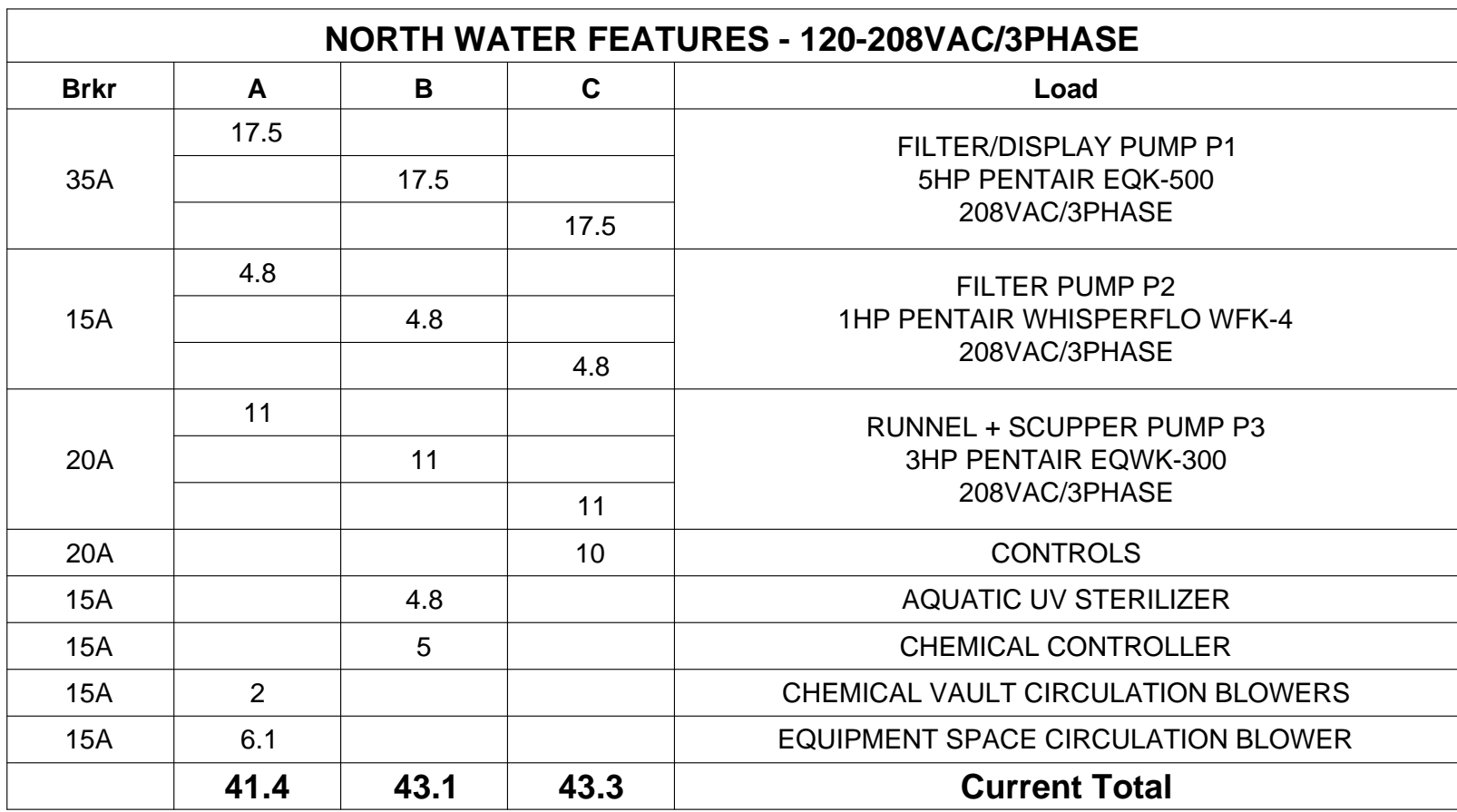


02 PIPING & INSTRUMENT DIAGRAM - SOUTH FEATURE
SCALE: N.T.S.

BASIC DRAWING NOTATIONS

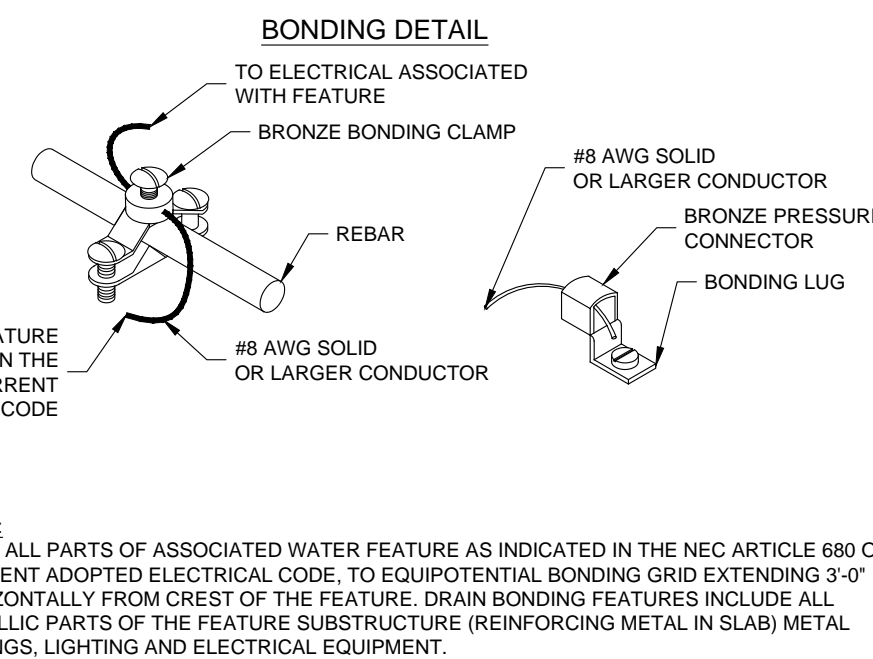
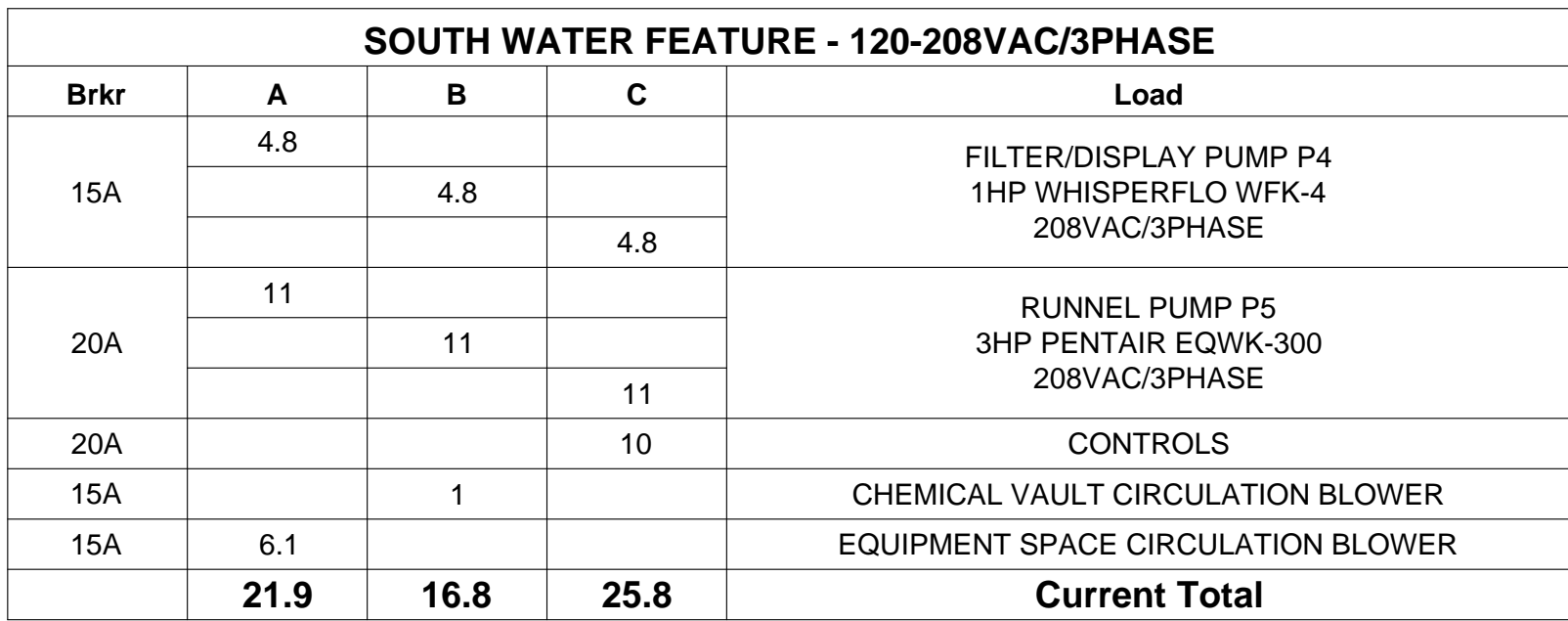
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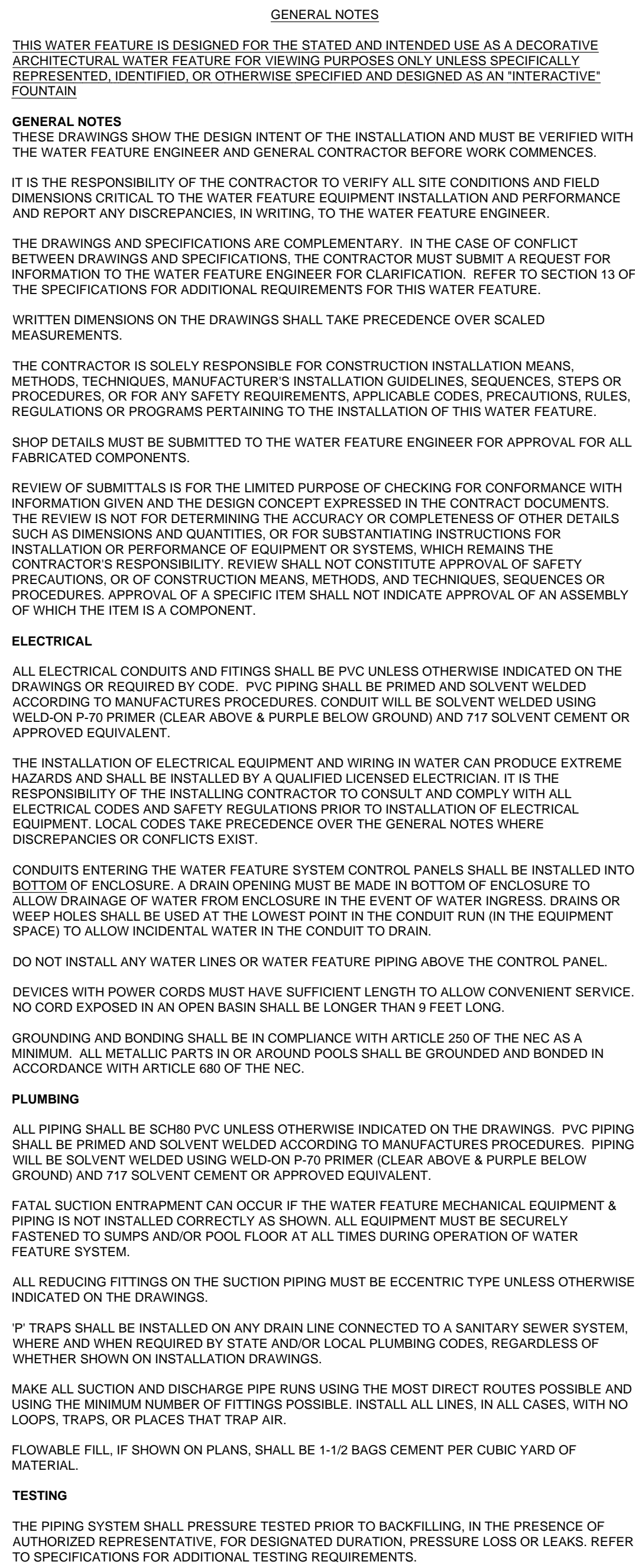


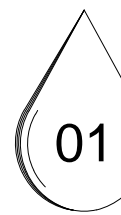
NORTH WATER FEATURES - 120-208VAC/3PHASE				
Brkr	A	B	C	Load
35A	17.5			FILTER/DISPLAY PUMP P1 5HP PENTAIR EQK-500 208VAC/3PHASE
		17.5		
			17.5	
15A	4.8			FILTER PUMP P2 1HP PENTAIR WHISPERFLO WFK-4 208VAC/3PHASE
		4.8		
			4.8	
20A	11			RUNNEL + SCUPPER PUMP P3 3HP PENTAIR EQWK-300 208VAC/3PHASE
		11		
			11	
20A			10	CONTROLS
15A		4.8		AQUATIC UV STERILIZER
15A		5		CHEMICAL CONTROLLER
15A	2			CHEMICAL VAULT CIRCULATION BLOWERS
15A	6.1			EQUIPMENT SPACE CIRCULATION BLOWER
	41.4	43.1	43.3	Current Total

01 ELECTRICAL ONE LINE - NORTH FEATURES
SCALE: N.T.S.



01 ELECTRICAL ONE LINE - SOUTH FEATURE
SCALE: N.T.S.





BILL OF MATERIALS
SCALE: N.T.S.

BILL OF MATERIALS - WATER FEATURES - 1100 SPRINGS PARK					
TAG	USAGE	DESCRIPTION	MANUFACTURER	MAKE	MODEL
P1	AQUATIC FILTER/DISPLAY PUMP	PUMP, 250GPM@37FH, 5HP/208VAC/3P, 6X4; THERMOPLASTIC W/STRAINER BASKET	PENTAIR	EQ	EQK-500
P2	FILTER PUMP	CENTRIFUGAL PUMP, 74GPM@59FH, 1HP/208VAC/3P, 2X2; THERMOPLASTIC	PENTAIR	WHISPERFLO	WFK-4
P3	RUNNEL/SCUPPER DISPLAY PUMP	PUMP, 340GPM@11FH, 3HP/208VAC/3P, 6X4; THERMOPLASTIC W/STRAINER BASKET, THREE PHASE	PENTAIR	EQ	EQWK-300
P4	FILTER/GEYSER PUMP	CENTRIFUGAL PUMP, 47GPM@55FH, 1HP/208VAC/3P, 2X2; THERMOPLASTIC	PENTAIR	WHISPERFLO	WFK-4
P5	RUNNEL DISPLAY PUMP	PUMP, 300GPM@8FH, 3HP/208-230/460VAC/3P, 6X4; THERMOPLASTIC W/STRAINER BASKET, THREE PHASE	PENTAIR	EQ	EQWK-300
P1-BF1	BIO FILTER	BIO-MECHANICAL FILTER, 167-340 GPM, 3" CONNECTIONS	AQUA ULTRAVIOLET	ULTIMA II PROFESSIONAL	ULTIMA II SIDE MOUNT - 30,000
P2-SF1	SAND FILTER	SAND FILTER, 30.5" FILTER DIAMETER, 2" TOP MOUNTED VALVE, FRP TANK, 74 GPM MAX	PENTAIR	TAGELUS	TA 100
P4-SF1	SAND FILTER	SAND FILTER, 24.5" FILTER DIAMETER, 2" TOP MOUNTED VALVE, FRP TANK, 47 GPM MAX	PENTAIR	TAGELUS	TA 60
P1-UV1	UV STERILIZER	UV STERILIZER, 352GPM MAX FLOW, 4" FLANGES (SAME SIDE ONLY), 50PSI MAX, 4 LOW PRESSURE BULBS, SCH. 80 PVC CHAMBER WITH 316L SS INTERIOR, 4.8A@120VAC, 10 AMP BREAKER REQUIRED, 13,000 HR LAMP LIFE, SYSTEM CONTROLLER WITH PRESSURE DETECTION,ALARM OUTPUT	CHLORKING	SENTRY	SAG-480APVC
P2-EF1	EROSION FEEDER	CHLORINE EROSION FEEDER	VERSACHLOR		1A
P2-CT1	ACID TANK	35 GALLONS, DUAL WALLED, POLYETHYLENE, 8" MANWAY, (2) 2" FNPT TOP OPENINGS, WHITE, 25" DIAMETER x 28.75" TALL, 42 LB EMPTY WEIGHT	RONCO PLASTICS		35/50DUAL
P4-EF1	EROSION FEEDER	AUTOMATIC CHLORINE-BROMINE FEEDER, 2" PVC CONNECTION, NO CLOG CONTROL VALVE	PENTAIR	RAINBOW	320
P2-CC1	WATER CHEMISTRY CONTROLLER	WATER CHEMISTRY CONTROLLER, AUTOMATIC pH & ORP CONTROL, DISCRETE ALARM OUTPUTS, FLOW SWITCH, 120VAC pH & ORP FEED OUTPUTS	BECS		BECS 3
P2-CP1	CHEMICAL PUMP	PERISTALTIC TUBING PUMP, ADJUSTABLE, 100PSI MAX, 120VAC/1P, LEXAN HOUSING, HDPE ROLLERS, SIZED BY POOL VOLUME	STENNER		45 SERIES
P2-V11	INJECTOR	5PSI - 34GPM	MAZZEI	VENTURI	2081
MS-SS1	SUCTION STRAINER	STRAINER, SUCTION, STAINLESS STEEL, 854 GPM(MAX), 8" FLANGES, 316SS, QUICK CONNECT LATCHES, 15 PSI MAX PRESSURE	NEPTUNE BENSON	VAF	VAF-US316-8x8
WT1-DS1 WT2-DS1	WATER TREATMENT PROCESS STRAINER	T-STRAINER , INLINE, POLYPROPYLENE, 1IN FPT, 50 MESH , CLEAR BOWL	MCMASTER		98775K474
WT1-MV2	1/4" TUBING ISOLATION VALVE	VALVE, PLUG, 1/4"FPTx3/8"T, PVC, 90DEG	MCMASTER		7952K25
FD-MV1 THRU FD-MV5 WT1-MV1 WT2-MV1 WT2-MV5 WT2-MV6	1" PVC BALL VALVE	BALL VALVE, 1", PVC Sch80, EPDM	SPEARS	TRUE-UNION	1829-010
WT2-MV2	1 1/4" PVC BALL VALVE	BALL VALVE, 1 1/4", PVC SCH80, SxS CONNECTION, EPDM	SPEARS	TRUE-UNION	1829-012
WT2-MV3 WT2-MV4 P4-MV1 P4-MV2 P4-MV3 P4-MV4	2" PVC BALL VALVE	BALL VALVE, 2", PVC Sch80, EPDM	SPEARS	TRUE-UNION	1829-020
P2-MV1 P2-MV2 P2-MV3 P3-MV4 SS-MV1 SS-MV2 SS-MV3	3" BUTTERFLY VALVE	BUTTERFLY VALVE, 3", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0300-BFA12-119
P1-MV2	4" BUTTERFLY VALVE	BUTTERFLY VALVE, 4", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0400-BFA12-119
P1-MV1 P3-MV1 P3-MV2 P5-MV1 P5-MV2	6" BUTTERFLY VALVE	BUTTERFLY VALVE, 6", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0600-BFA12-119
P4-MV3 MS-MV1 MS-MV2	8" BUTTERFLY VALVE	BUTTERFLY VALVE, 8", HANDWHEEL GEAR OPERATED, LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC	BRAY	SERIES 31	31-0800-BFC12-119
WT2-CV1	1-1/4" PVC CHECK VALVE	CHECK VALVE, 1-1/4", PLUG , 1PSI CRACKING PRESSURE, PVC, SxS CONNECTION, DOUBLE UNION	PRAHER	DOUBLE UNION	3-125
P4-CV1	2.5" CHECK VALVE	2.5" WAFER STYLE CHECK VALVE, PVC FLAP, 316 SS SPRING, FLANGE CONNECTION, 0.5 PSI CRACKING PRESSURE, 0.02 PSI SEALING PRESSURE	COLONIAL VALVE	601N SERIES	KIT27601S
P2-CV1	3" CHECK VALVE	3" WAFER STYLE CHECK VALVE, PVC FLAP, 316 SS SPRING, FLANGE CONNECTION, 0.5 PSI CRACKING PRESSURE, 0.02 PSI SEALING PRESSURE	COLONIAL VALVE	601N SERIES	KIT30601S
P1-CV1	4" CHECK VALVE	4" WAFER STYLE CHECK VALVE, PVC FLAP, 316 SS SPRING, FLANGE CONNECTION, 0.5 PSI CRACKING PRESSURE, 0.02 PSI SEALING PRESSURE	COLONIAL VALVE	601N SERIES	KIT40601S
P3-CV1 P5-CV1	6" CHECK VALVE	6" WAFER STYLE CHECK VALVE, PVC FLAP, 316 SS SPRING, FLANGE CONNECTION, 0.5 PSI CRACKING PRESSURE, 0.02 PSI SEALING PRESSURE	COLONIAL VALVE	601N SERIES	KIT60601S
WT2-SV1	1" CHLORINE FILL VALVE	SOLENOID VALVE, 1", 120VAC@16.1W, 13CV@1"ORIFICE, 0PSI dP, BRASS, FPTxFPT	ASCO	SERIES 8210	8210G054
MW1-EV1 MW2-EV1 MW3-EV1	1" WATER MAKE-UP VALVE	BALL VALVE, BRASS, MOTOR ACTUATED, SPRING RETURN, 120VAC, 2 WIRE CONTROL, 24-28 SECOND OPENING SPEED, 19-23 SECOND CLOSING SPEED	BRAY	SOFT TOUCH	ST2-1-2-19C/VASU20-27
MW1-MV2 MW1-MV3 MW2-MV2 MW2-MV3 MW3-MV2 MW3-MV3	1" BRASS BALL VALVE	BALL VALVE, 1", BRASS BALL, FPTxFPT LEVER HANDLE, TWO-PIECE BRONZE BODY, FULL PORT, BRONZE TRIM, BLOWOUT-PROOF STEM, PTFE SEATS	NIBCO	-	T-585-70-1
MW-MV1 MW1-MV1 MW2-MV1 MW3-MV1 MW3-MV5	1-1/2" BRASS BALL VALVE	BALL VALVE, 1 1/2", BRASS BALL, FPTxFPT LEVER HANDLE, TWO-PIECE BRONZE BODY, CONVENTIONAL PORT, BRONZE TRIM, BLOWOUT-PROOF STEM, PTFE SEATS	NIBCO	-	T-580-70-1 1/2
MW2-MV4 MW3-MV4	3/4" HOSE BIB	VALVE, HOSE BIB, 3/4"MPT, BRASS, 75DEG	NIBCO	-	QT56X - 3/4"
P1-VS1 P2-VS1 P3-VS1 P4-VS1 P5-VS1	VACUUM SWITCH	VACCUM SWITCH, 17Hg, 1/8MPT	HONEYWELL	-	77342 17 N/O
P1-VG1 P2-VG1 P3-VG1 P4-VG1 P5-VG1	VACUUM GAUGE	VACUUM GAUGE, 30"-30psi, SS body, Cu INTERNAL	MARSH	SERIES 63MM	J7612P

P2-PG1 P2-PG2 P2-PG3	PRESSURE GAUGE	PRESSURE GAUGE, 0-60psi, SS body, Cu INTERNAL	MARSH	SERIES 63MM	J7646P
MW1-PG1 MW2-PG1 MW3-PG1	PRESSURE GAUGE	PRESSURE GAUGE, 0-100psi, SS body, Cu INTERNAL, 1/4" MPT	MARSH	SERIES 63MM	J7648P
P2-PT1 P2-PT2	PUMP PRESSURE MONITOR	PRESSURE TRANSMITTER, 0-50PSI, STAINLESS STEEL BODY, 4-20Ma OUTPUT, 0.25% ACCURACY, 1/4"MPT, 2" CABLE	DWYER	673 SERIES	673-6C
P2-FT1	FILTERED WATER FLOW TRANSMITTER	FLOW TRANSMITTER, MAGNETIC, 12-30VDC, 4-20mA OUTPUT, 11-783GPM, LCD RATE DISPLAY, 4" BRONZE NPT PIPE MOUNTING,	OMEGA	-	FMG982M -P FP981-4BRT
MW1-FT1 MW2-FT1 MW3-FT1	FLOW TOTALIZER	1 1/2", 150 PSI MAX, 10mA MAX, 24DC MAX, BRASS BODY & COUPLINGS	ASSURED AUTOMATION	WM-NLC SERIES	-
P2-FI1 P4-FI1	2" FLOW INDICATOR	FLOW METER, 2", 40-150GPM, PITOT TUBE, CAST ACRYLIC	BLUE-WHITE	F-300 SERIES	F-30200P
WT2-FI1	2" FLOW INDICATOR	FLOW METER, 2", 15-70GPM, PILOT TUBE, CAST ACRYLIC	BLUE-WHITE	F-300 SERIES	F-30200PR
P1-FI1	4" FLOW INDICATOR	FLOW METER, 4", 125-500GPM, PITOT TUBE, CAST ACRYLIC	BLUE-WHITE	F-300 SERIES	F-30400P
P3-FI1 P5-FI1	6" FLOW INDICATOR	FLOW METER, 6", 250-1050GPM, PITOT TUBE, CAST ACRYLIC	BLUE-WHITE	F-300 SERIES	F-30600P
MW1-LP1 THRU MW1-LP4 MW2-LP1 THRU MW2-LP4 MW3-LP1 THRU MW3-LP4	WATER LEVEL PROBE	LEVEL SENSOR, RESISTIVE, SS, PLASTIC SHIELD, + 8FT PVC INSULATED CABLE	GEMS	-	3W2 + 321A-8
SC-VT1	ANEMOMETER	POLYCARBONATE WIND SENSOR, 24VDC, 7.5" ROTOR DIAMETER, 11-55 MPH WIND DETECTION	ETESIAN	ET	ET-4000
-	WATER SPOUT	1.5" FNPT, 1/4" THICK COPPER	MAJESTIC WATER SPOUTS	BIANCA	HEAVY COPPER WATER SPOUT
-	EYEBALLS	2" FNPT, CAST BRONZE, 10 GPM MIN FLOW, 30 GPM MAX FLOW	FOUNTAIN PEOPLE	FES	FES-200
-	SKIMMERS	FRONT ACCESS WALL SKIMMER, BRONZE FACE, BLACKAK BODY, 1.5" SLIP CONNECTION	CRYSTAL	AWS	AWS151
-	WALL MOUNTED OVERFLOW	WALL MOUNTED OVERFLOW W/ ADJUSTABLE WEIR PLATE, BRONZE CONSTRUCTION, 3" NPT CONNECTION	CRYSTAL	DOW	DOW300
-	STANDPIPE OVERFLOW DRAIN	STANDPIPE OVERFLOW DRAIN, CUSTOM HEIGHT TO MEET PROJECT REQUIREMENTS, 3"FPT, BRONZE WATERSTOP, BONDING SCREW, COPPER STANDPIPE, BRONZE CAP	FOUNTAIN PEOPLE	FSD	FSD-300
-	FLOOR DRAINS	STAINLESS STEEL FLOOR DRAIN W/ WATERSTOP AND GROUNDING LUG, 2" NPT CONNECTION	CRYSTAL	IWS	IWS200
-	CHEMICAL BOX EXHAUST BLOWERS	BLOWER, 124CFM@0.05P, 47dB, 4.69"SQUARE x 1.5"THICK, 1/3HP, 2750RPM, 120VAC/1P/25FLA (MOUNTED IN CUSTOM VENT CAP) + CORD: 24IN	DAYTON	-	2RTK6 + 4YD79
	CONTROL PANEL	CUSTOM PANEL HOUSED IN NEMA 4X ENCLOSURE. DESIGNED TO OPERATE AND MONITOR ALL WATER FEATURE EQUIPMENT. CONTRACTOR TO SUBMIT FOR APPROVAL	CUSTOM	-	-
-	VARIABLE FREQUENCY DRIVES	208VAC / 3PHASE DRIVES FOR PUMPS P1-P5, ALL VFDS TO BE HOUSED IN NEMA 4X ENCLOSURE	YASKAWA	-	-
-	TROUGH & SUMP GRATING	FRP, 2" THICK, 1/4" LOAD BAR, 2" LOAD BAR CENTERS	FIBERGRATE	-	-
-	FASTENERS	STAINLESS STEEL ABOVE AND BELOW GROUND	-	-	-
-	ALL PIPING AND FITTINGS	SCH80 PVC, HDPE, COPPER, BRASS, STAINLESS STEEL	-	-	AS REQUIRED
-	ALL BURIED CONDUIT	PVC	CARLON	-	AS REQUIRED
-	ALL EQUIPMENT ROOM CONDUIT	AS REQUIRED BY CODE AND ARCHITECT	-	-	AS REQUIRED

04/19/2021

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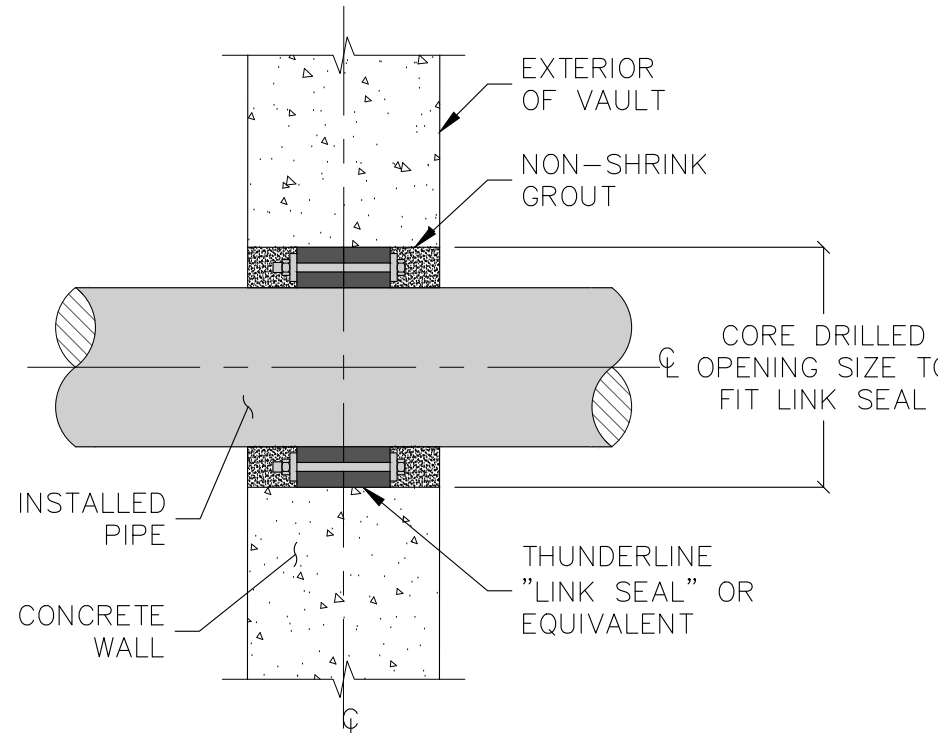
GPSI
GREENSCAPEPUMP.COM
Sustainable. Authentic. Water Technology.
1405 Whetzel Lane, Suite 100
Corpus Christi, Texas 78404
Ph: 361-666-0007 Fax: 361-666-8919
GREENSCAPE PUMP COMPANY LLC
P.O. BOX 100

B.O.M.

**50% CONSTRUCTION DOCUMENTS
FOR PERMIT ONLY**

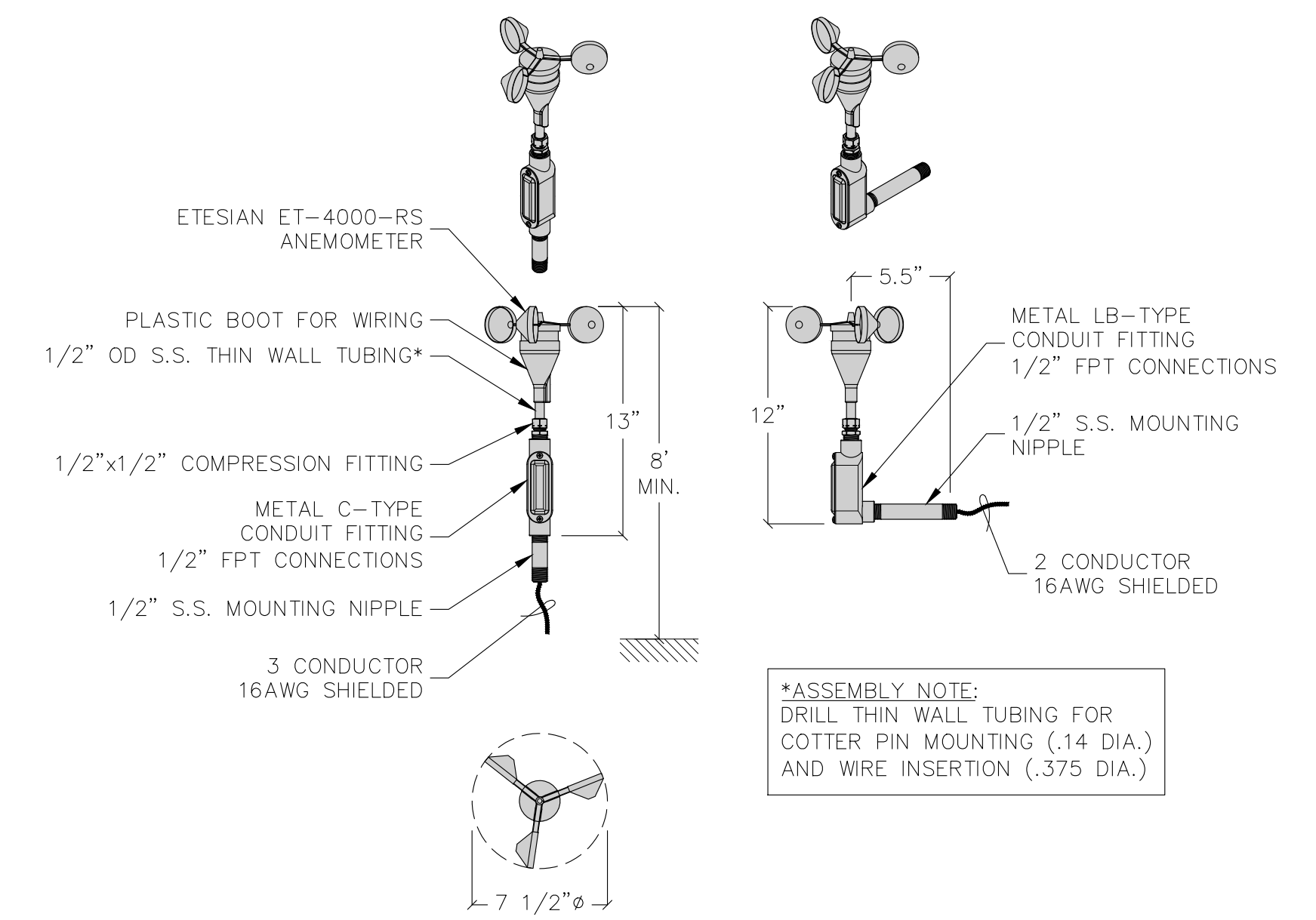
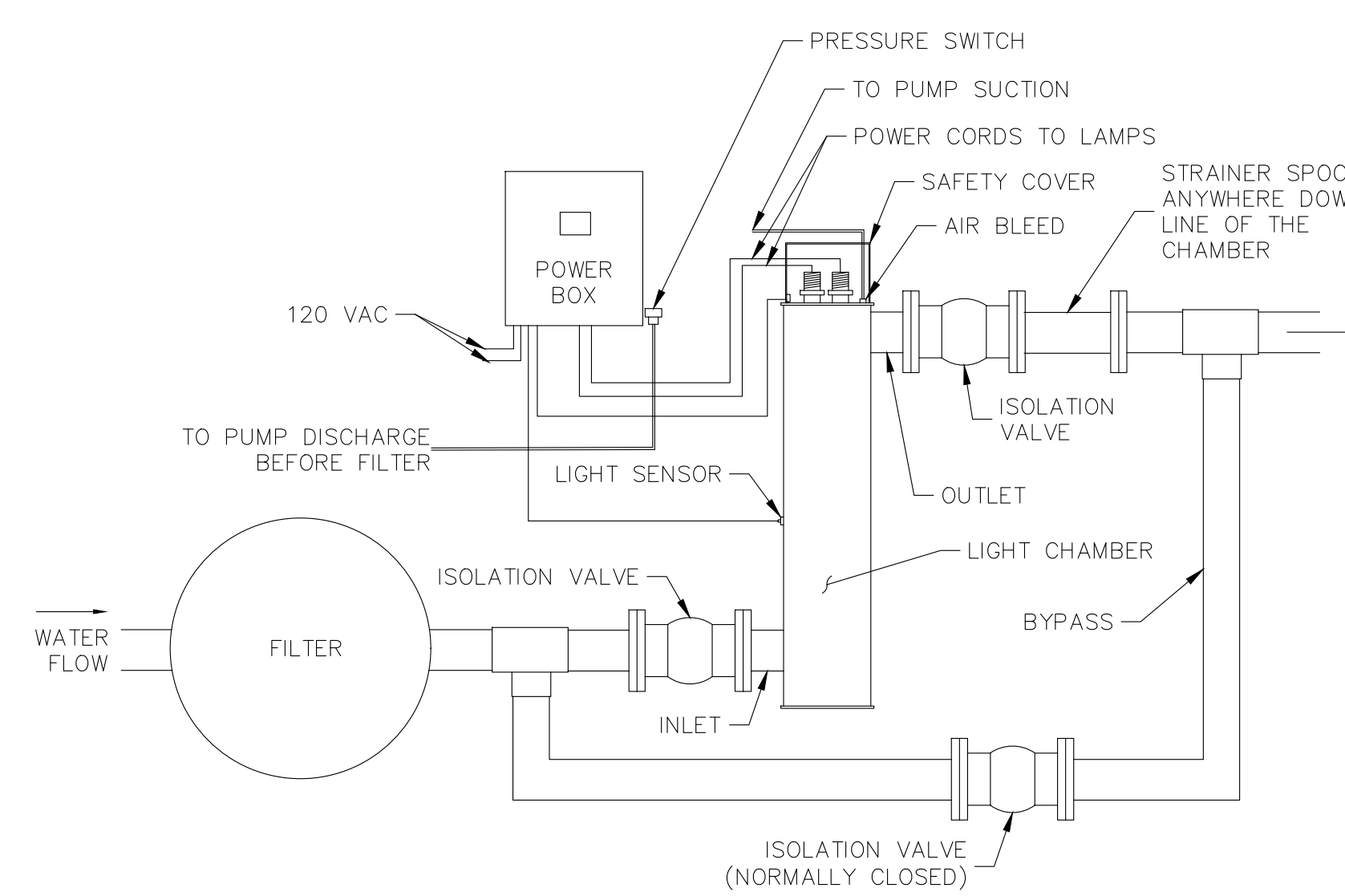
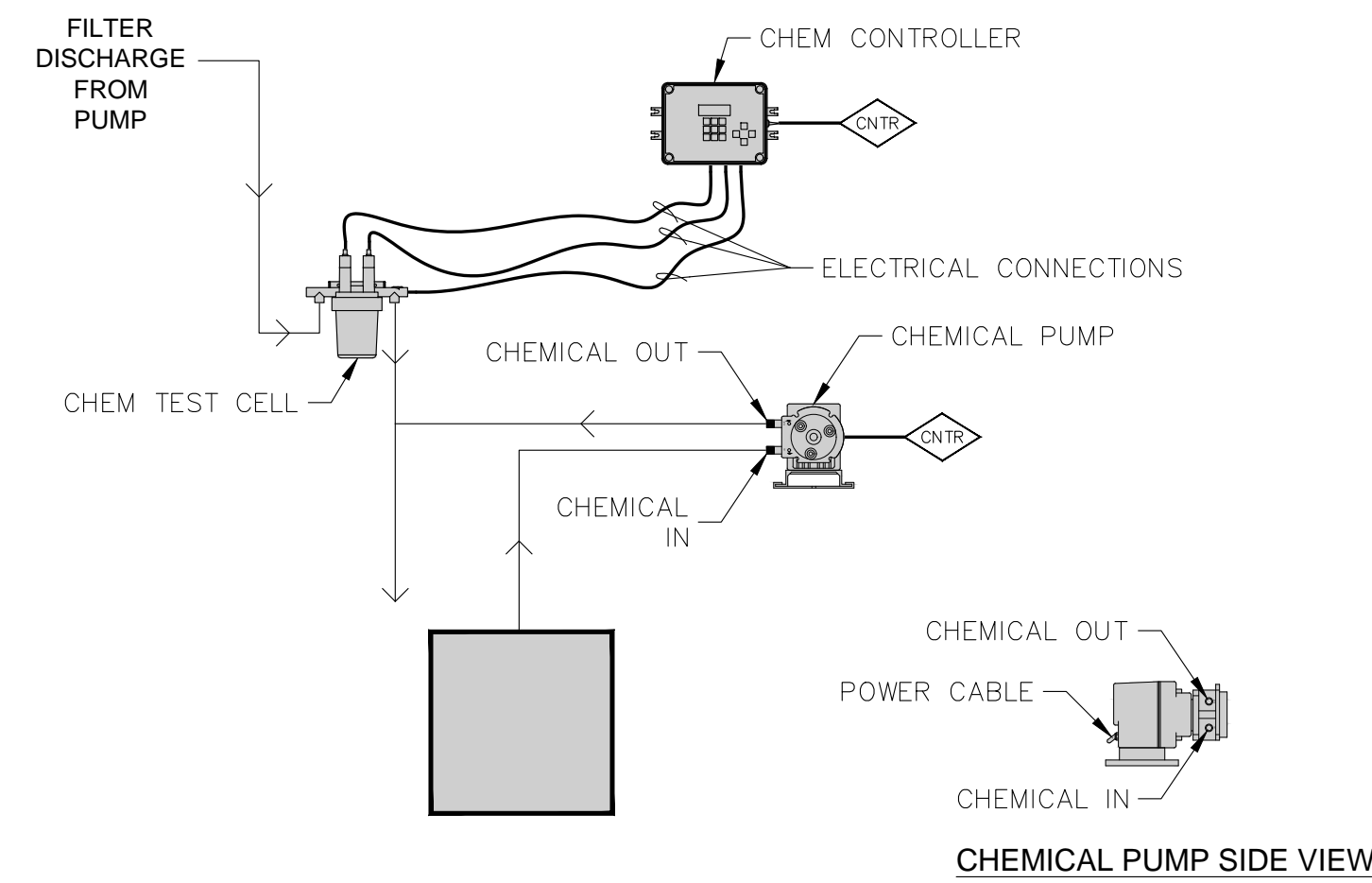
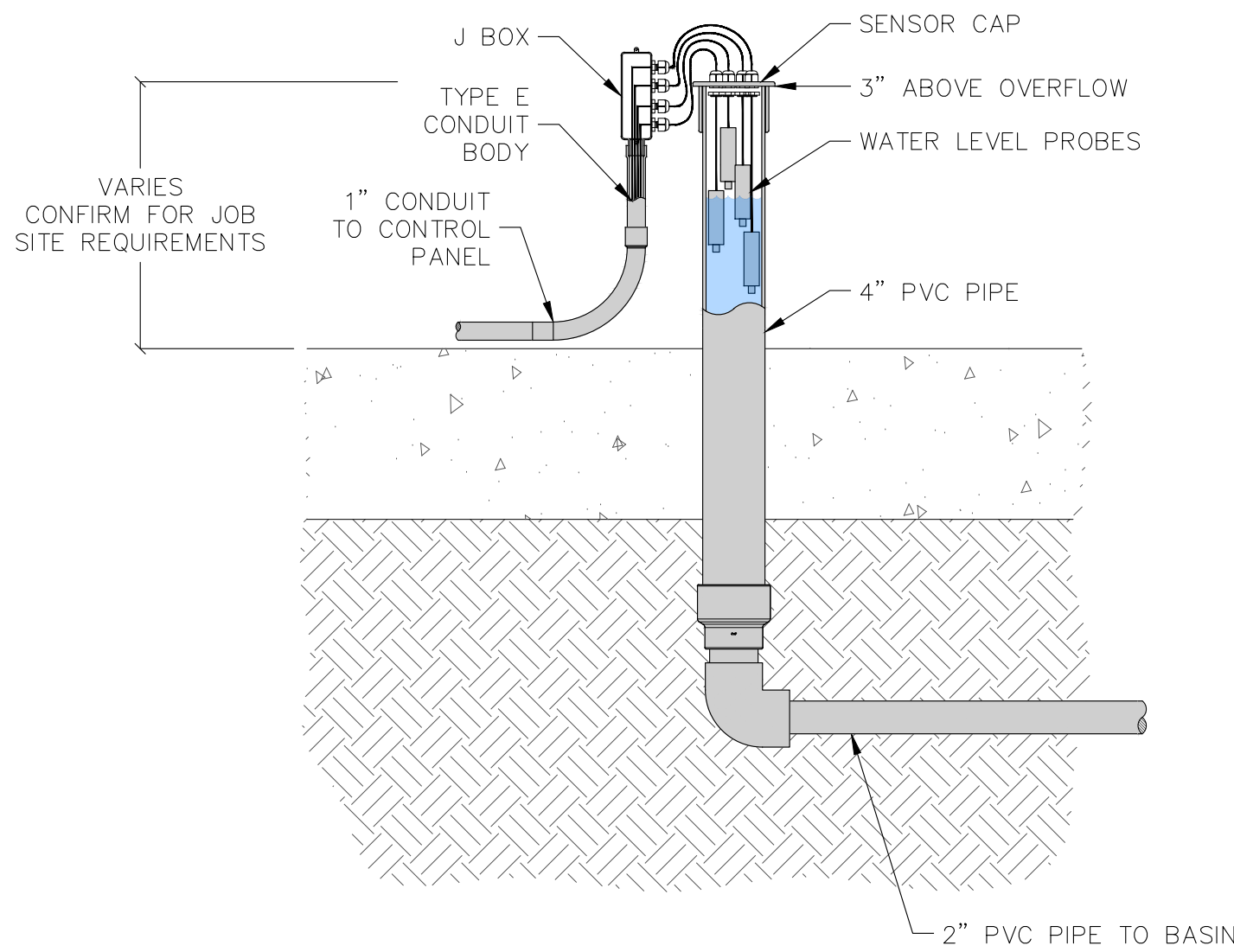
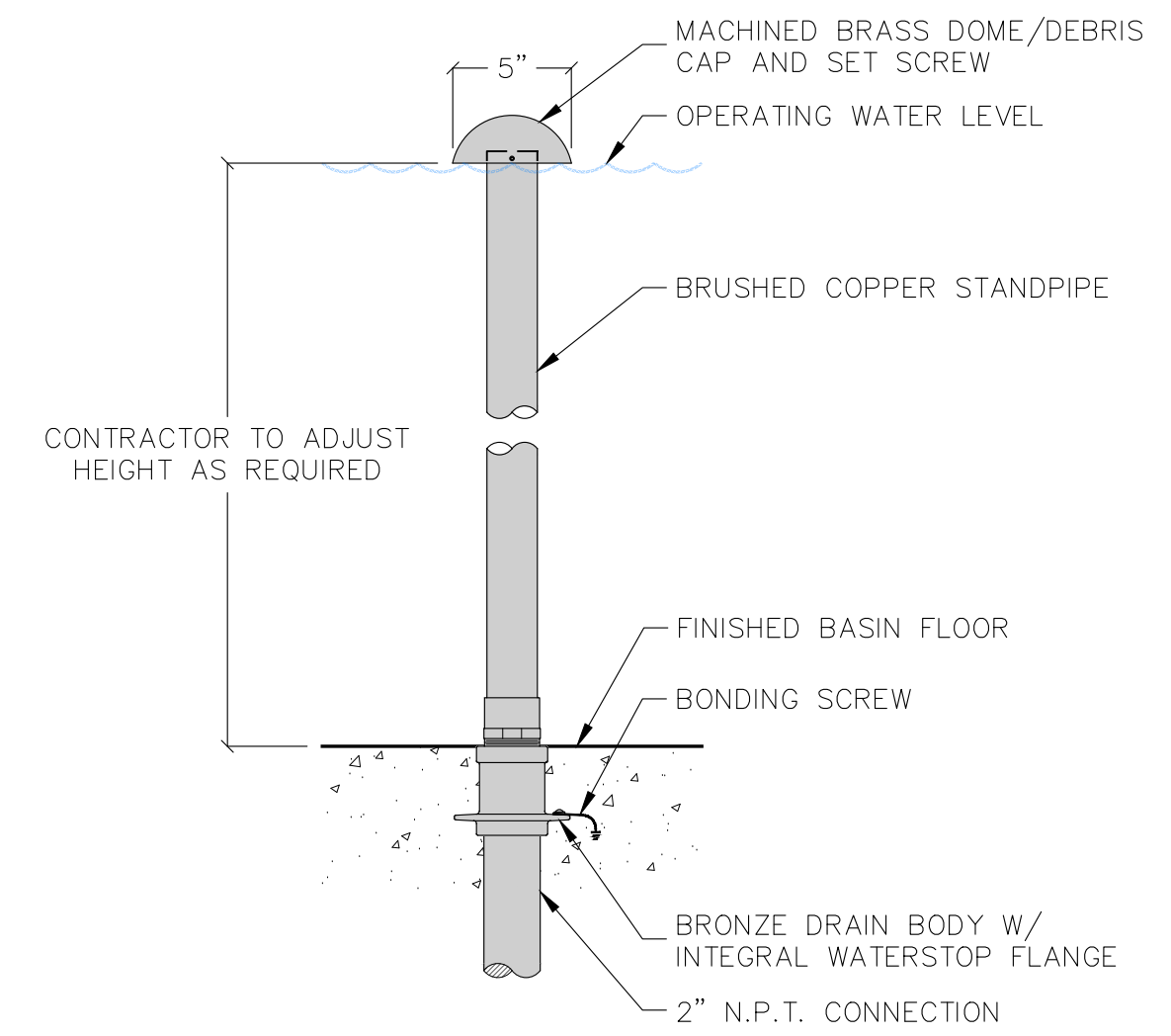
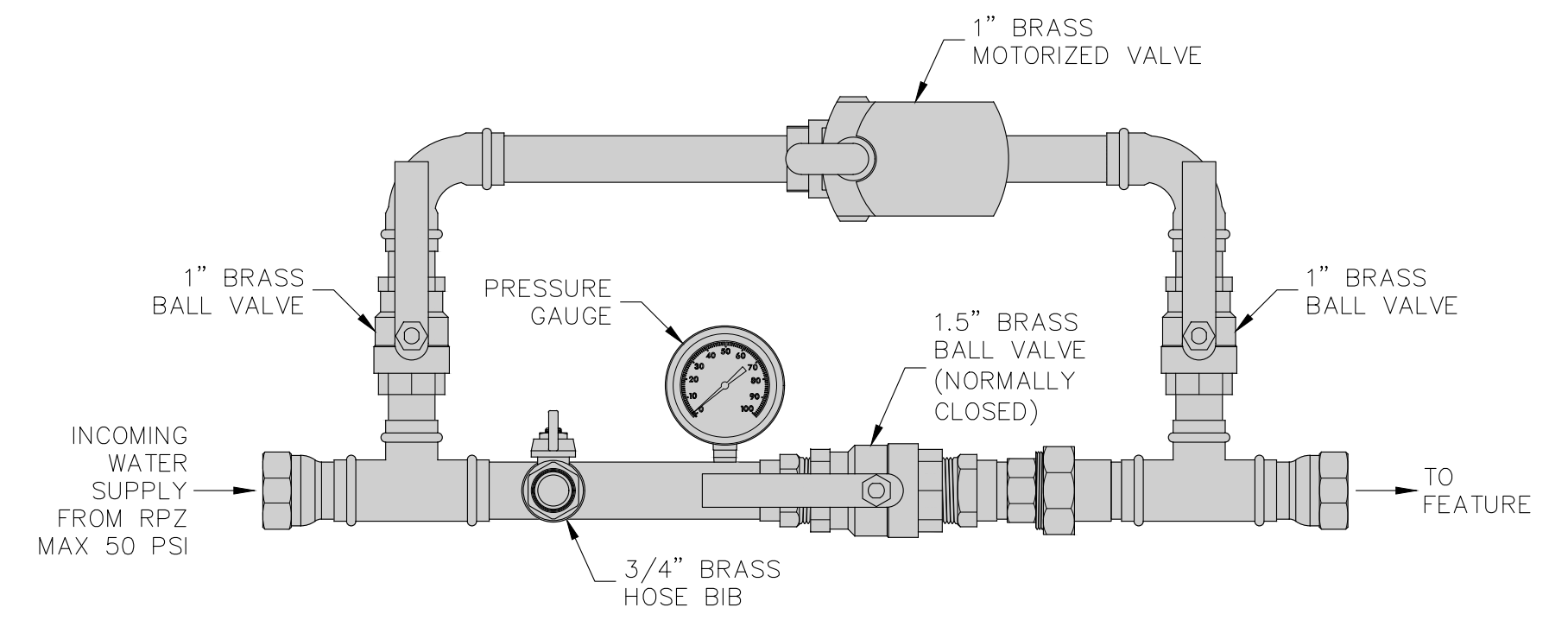
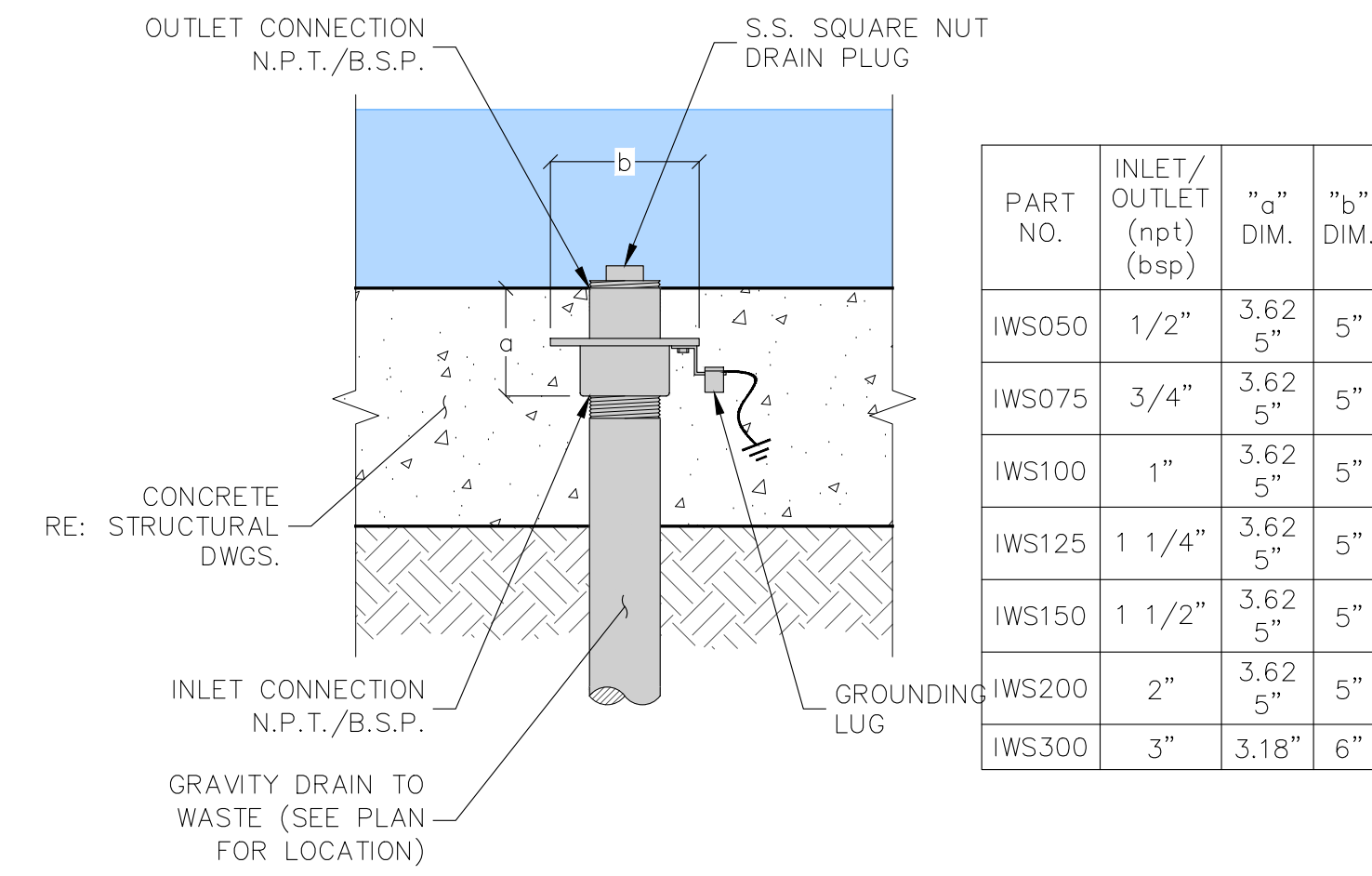
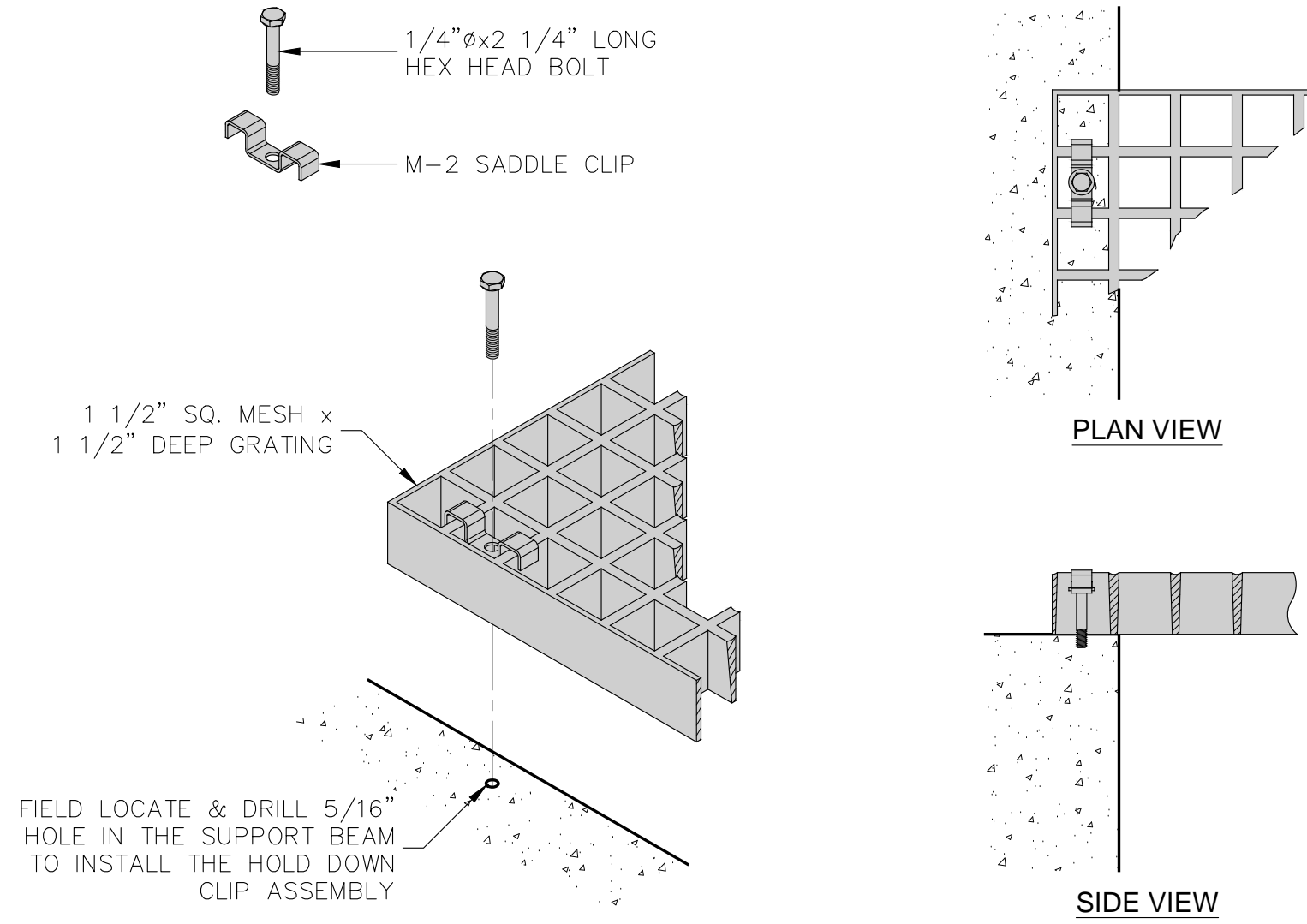
1100 Springs Park
Pearl Campus
San Antonio, TX 78209

WF500



PIPE SIZE (NOMINAL)	OUTSIDE DIAMETER (PIPE O.D.)	CAST OR DRILLED CONCRETE HOLE INSIDE DIA. (I.D.) IN.	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
1/2"	0.840	2.0	LS-200	4
3/4"	1.050	3.0	LS-315	4
1"	1.315	3.0	LS-300	4
1 1/4"	1.660	3.0	LS-275	8
1 1/2"	1.900	4.0	LS-315	6
2"	2.375	4.0	LS-300	6
2 1/2"	2.875	4.0	LS-200	9
3"	3.500	5.0	LS-300	8
3 1/2"	4.00	6.0	LS-315	10
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-340	13
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-475	14
12"	12.75	16.0	LS-475	17

PRODUCT OF THUNDERLINE CORPORATION, HOUSTON, TX.





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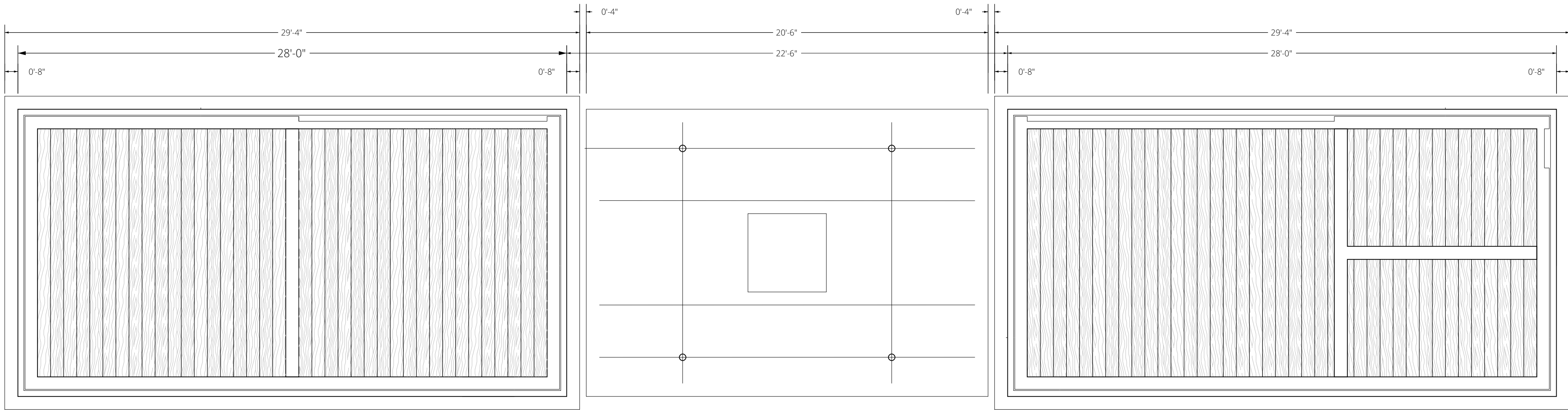
FLOOR PLANS

1100 Springs Park
240 E. Grayson
San Antonio, TX 78209

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A1.0

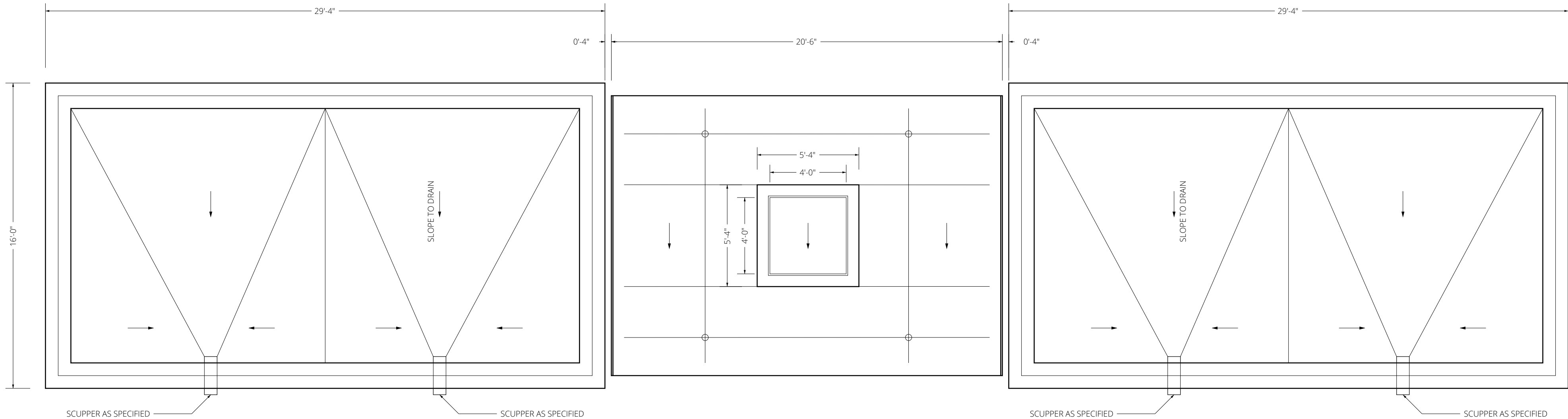
RE



RESTROOMS - REFLECTED CEILING PLAN

02

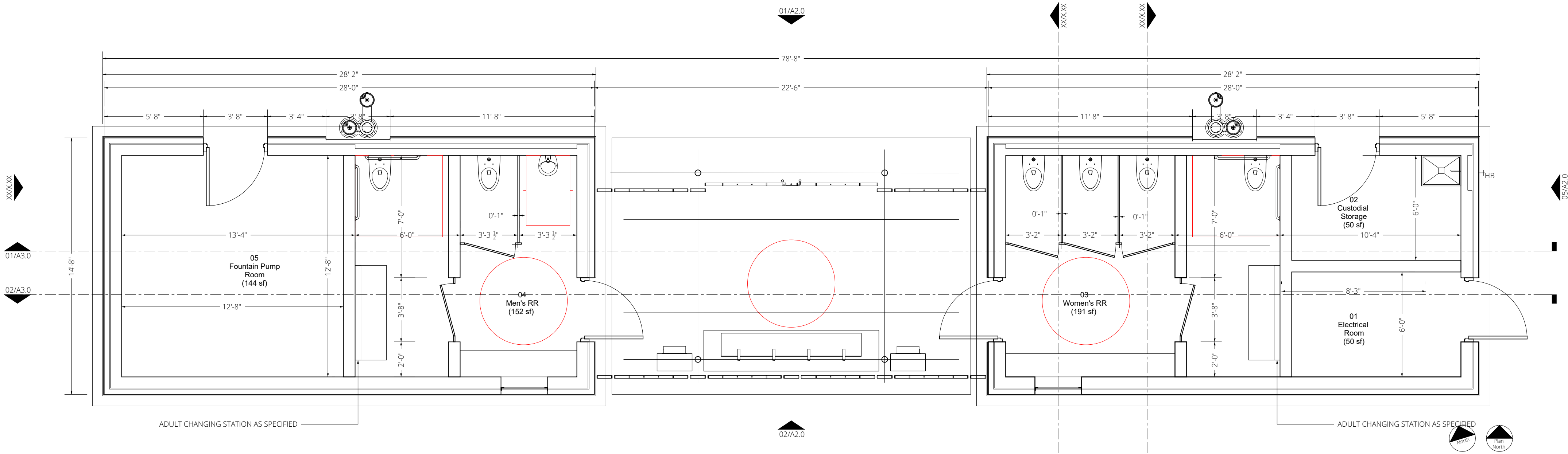
1/4" = 1'-0"



RESTROOMS - ROOF PLAN

02

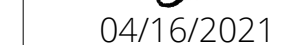
1/4" = 1'-0"



RESTROOMS - PLAN

01

1/4" = 1'-0"



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ELEVATIONS

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A2.0

RE



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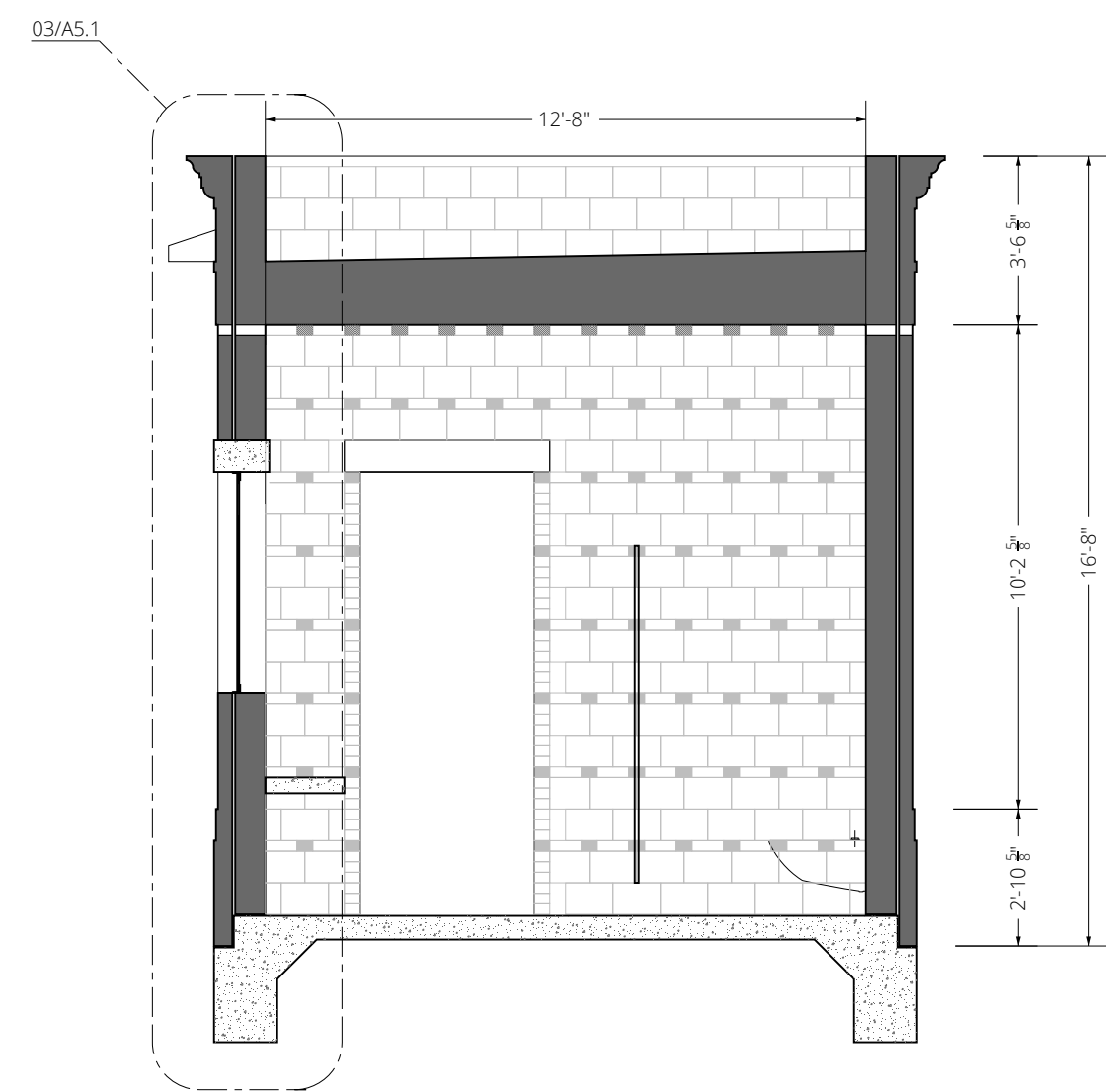
SECTIONS

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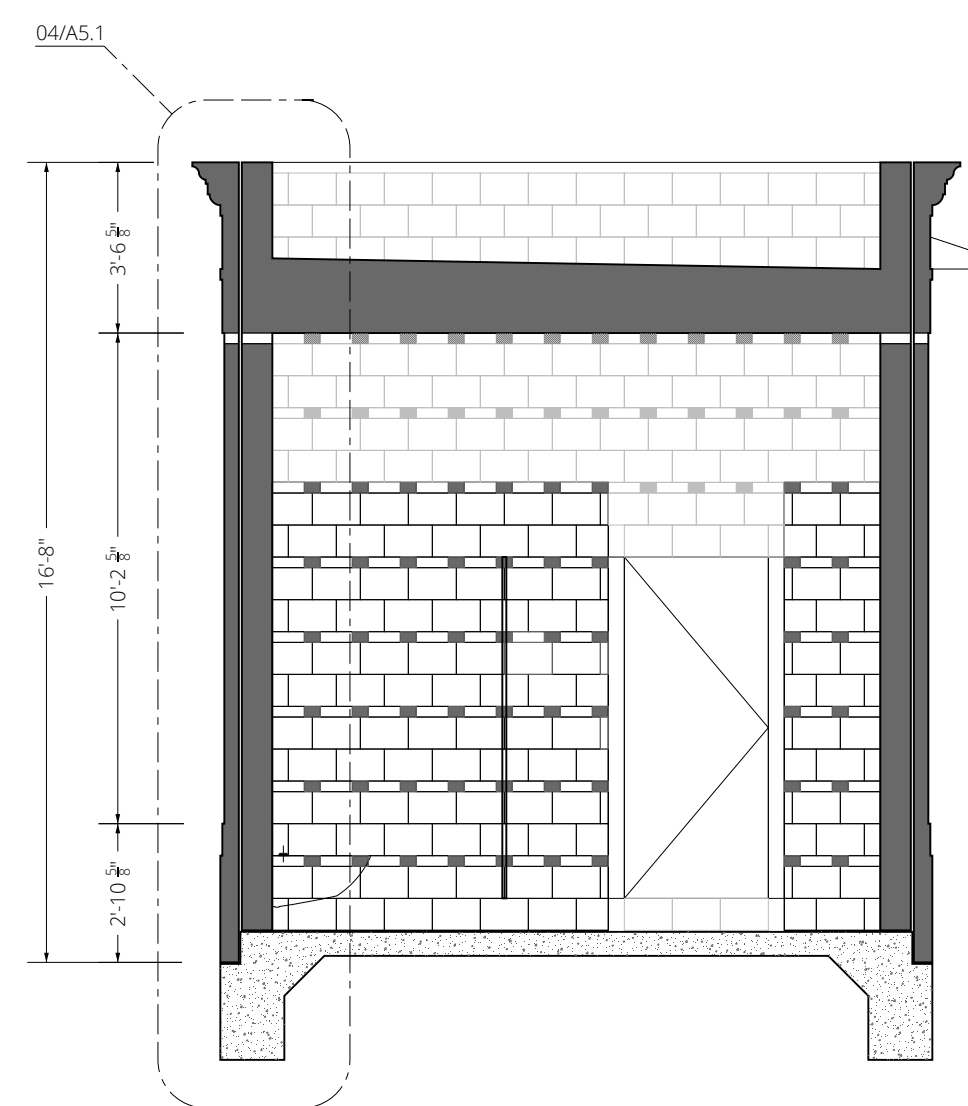
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A3.0

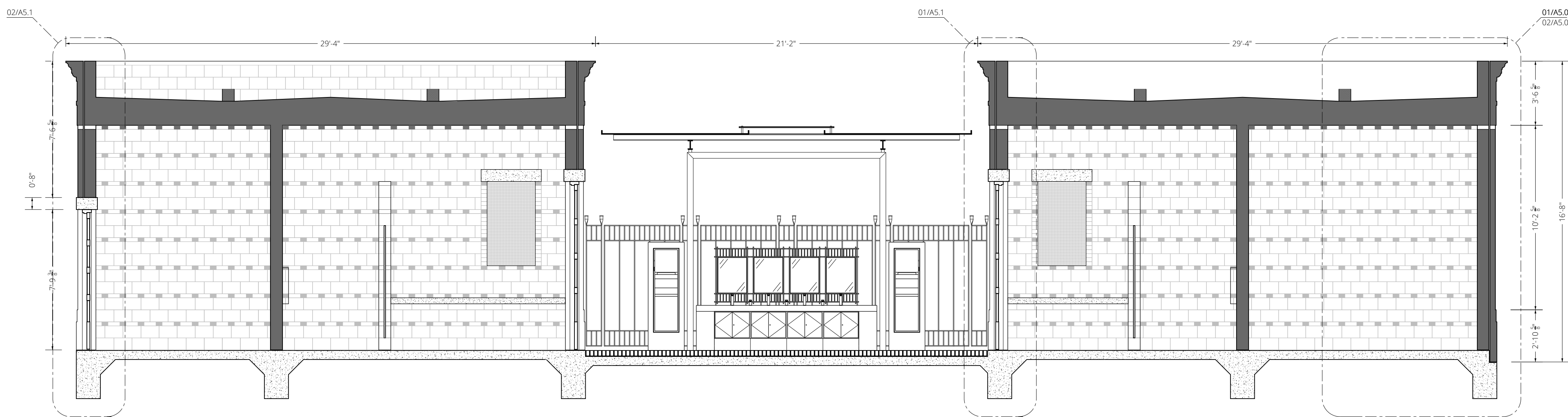
RE



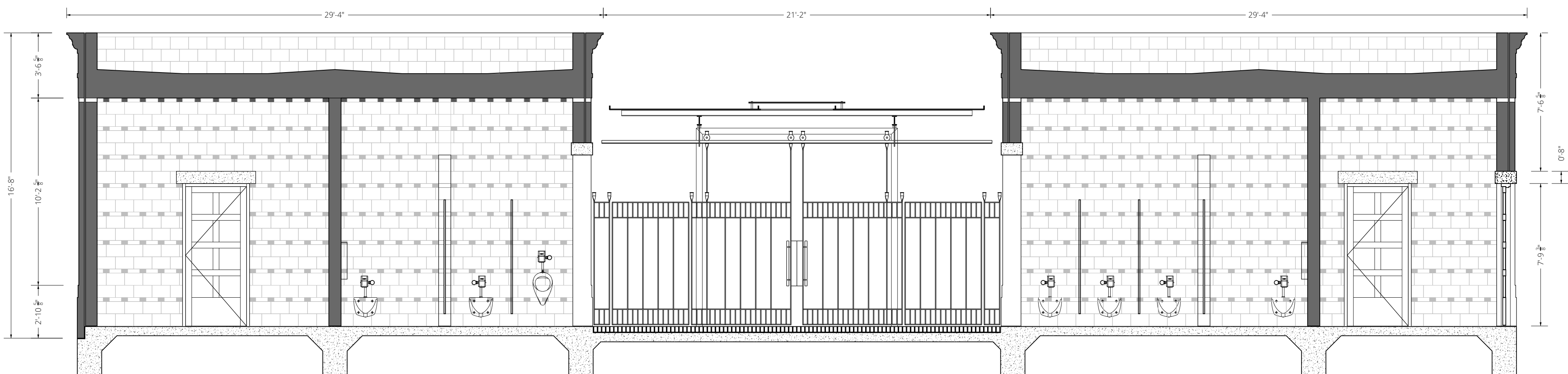
RR - WOMEN'S N/S SECTION FACING WEST
04
1/4" = 1'-0"



RR - WOMEN'S N/S SECTION FACING EAST
03
1/4" = 1'-0"



RR - E/W SECTION FACING NORTH
01
1/4" = 1'-0"



RR - E/W SECTION FACING NORTH
01
1/4" = 1'-0"



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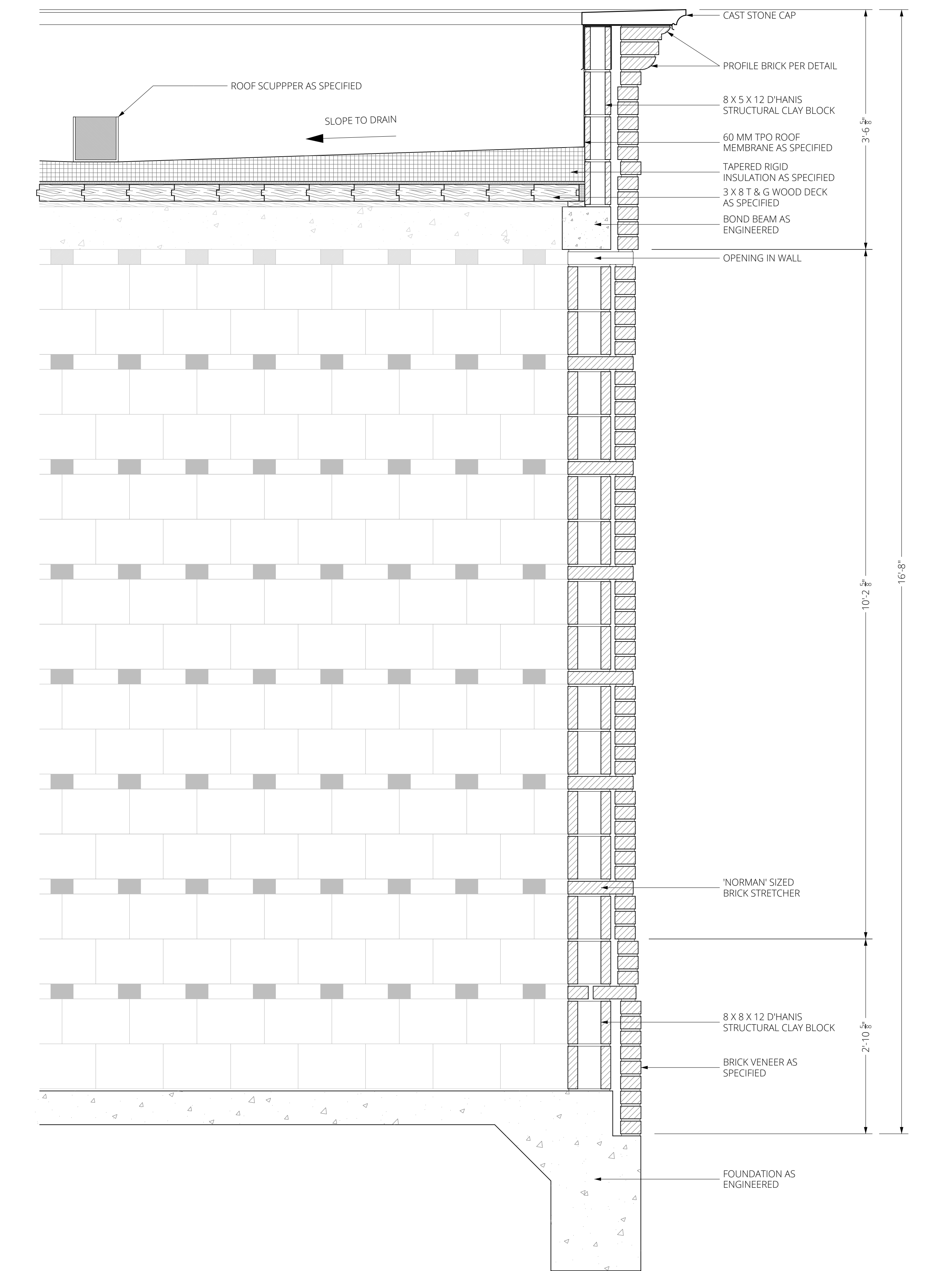
WALL SECTIONS

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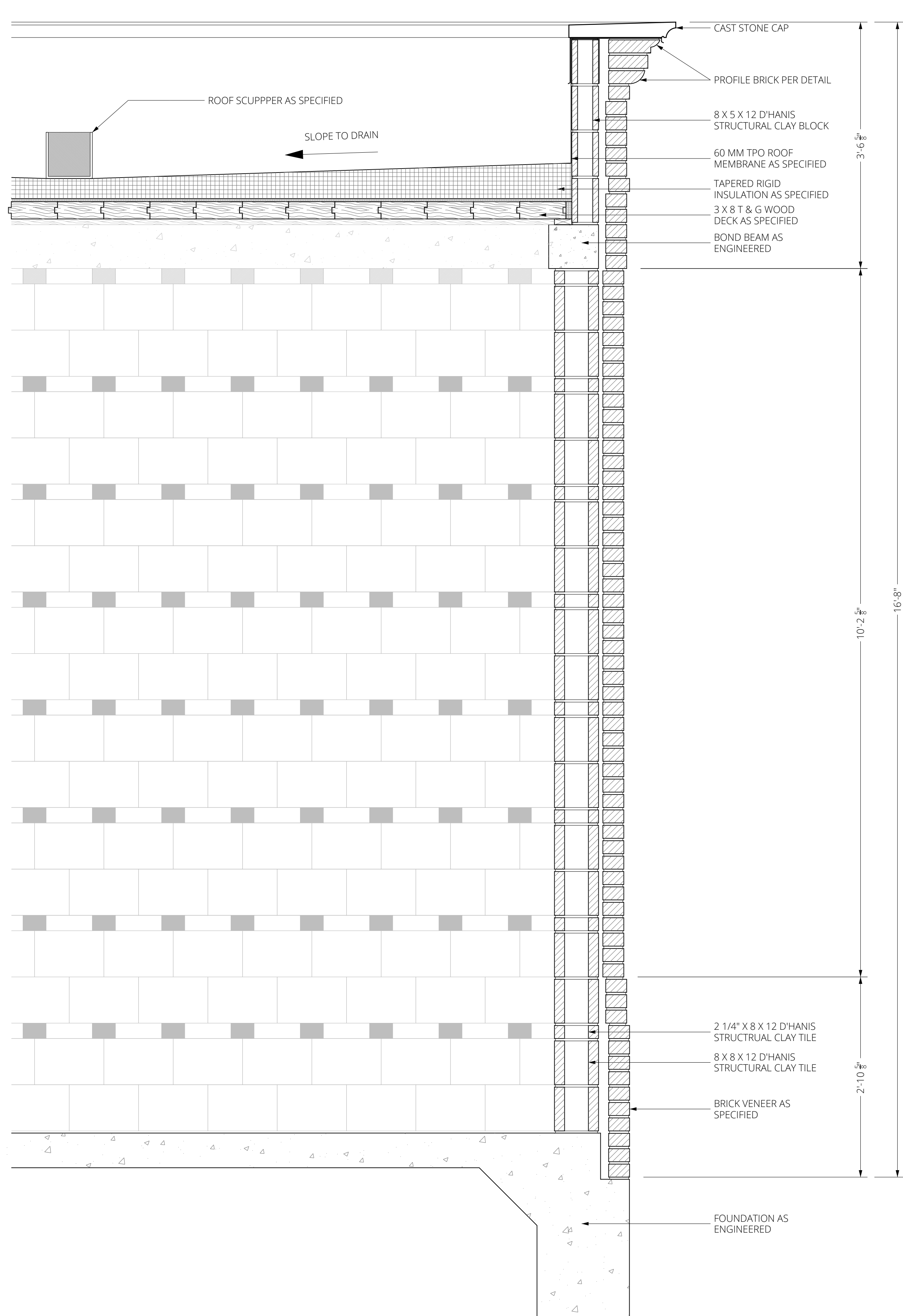
A3.1

RE



WALL SECTION - STRETCHER COURSE
02

1" = 1'-0"



WALL SECTION - STANDARD BRICK COURSE
01

1" = 1'-0"



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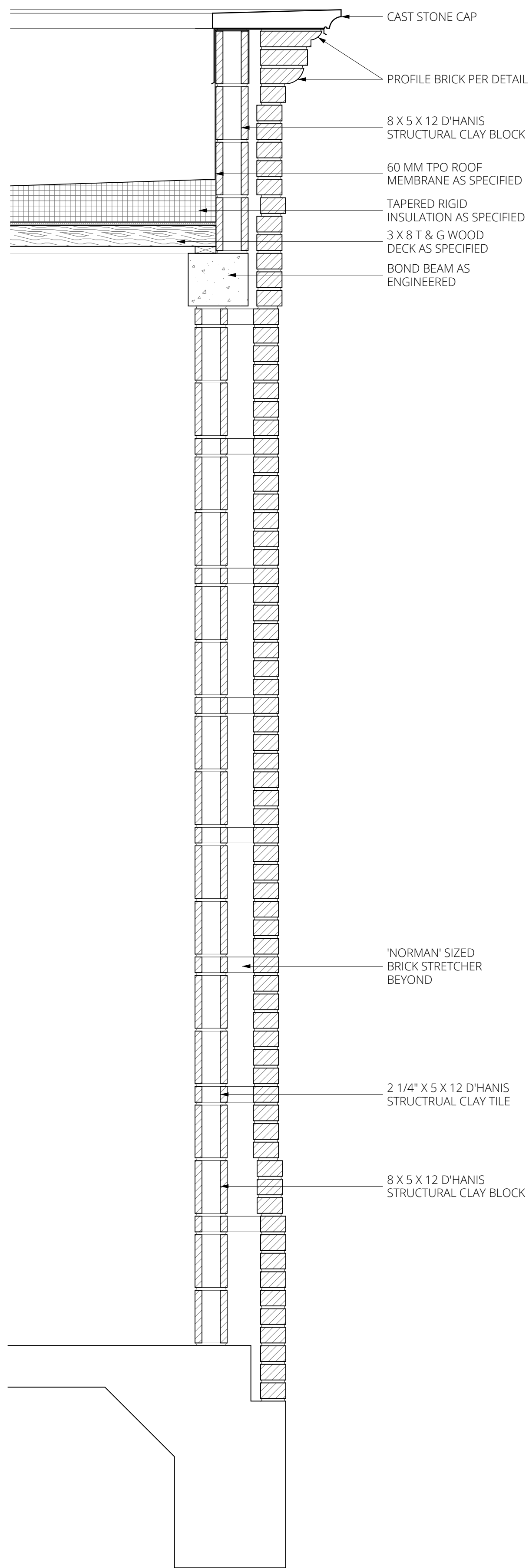
WALL SECTIONS

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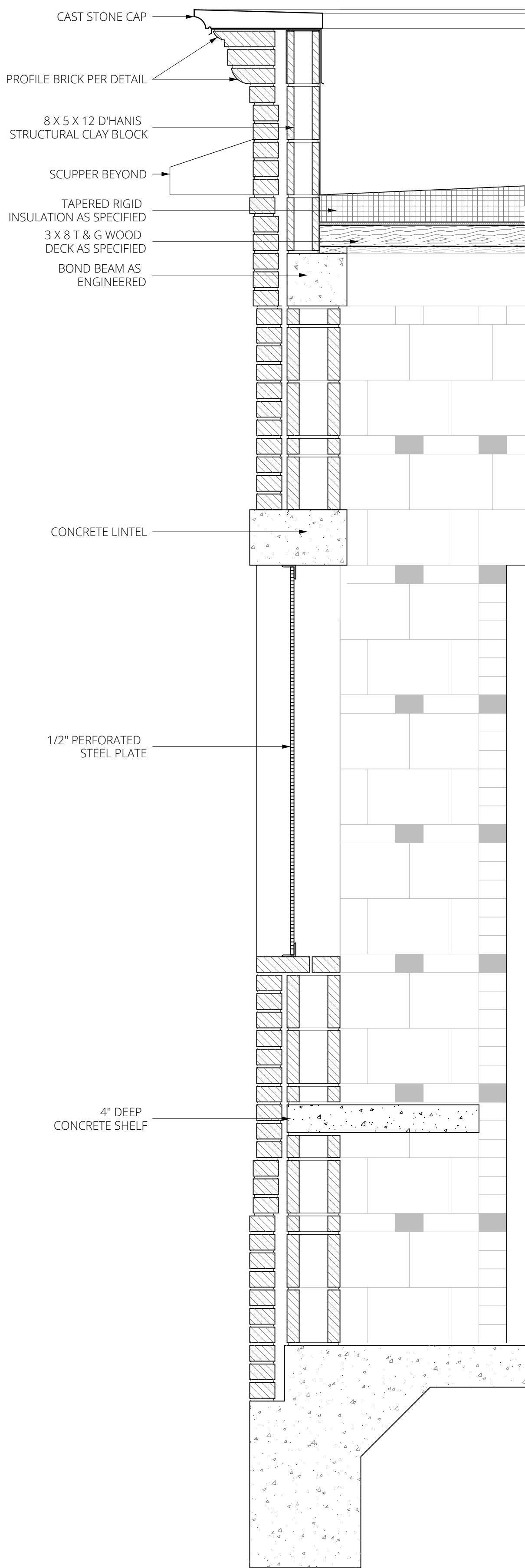
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A3.2

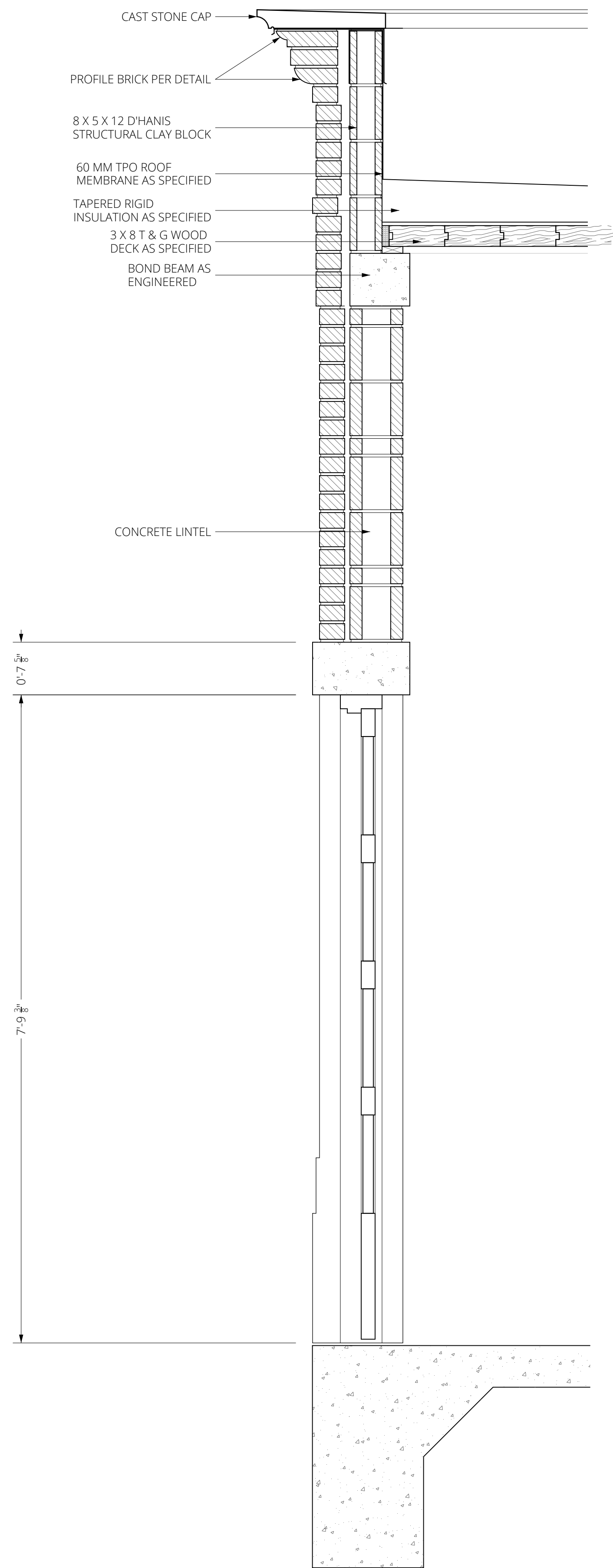
RE



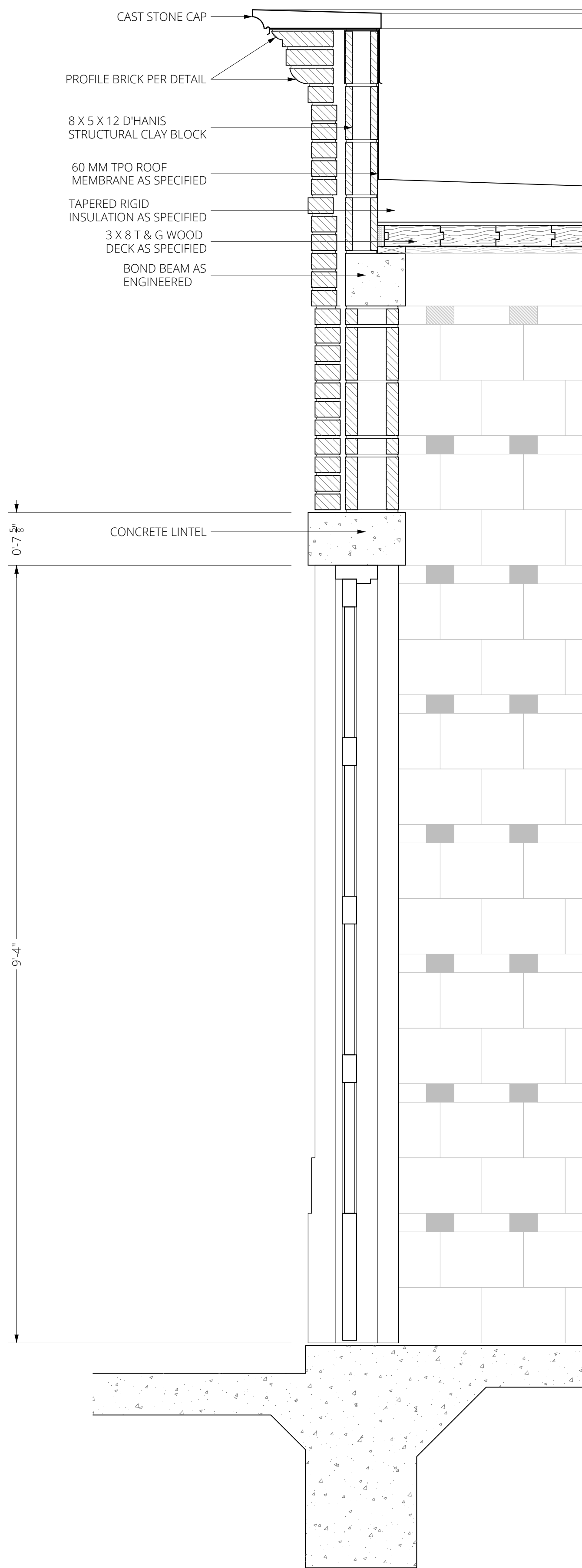
WALL SECTION - CHASE WALL
04 1" = 1'-0"



WALL SECTION - WINDOW OPENING
03 1" = 1'-0"



WALL SECTION - UTILITY ENTRY
02 1" = 1'-0"



WALL SECTION - RESTROOM ENTRY
01 1" = 1'-0"



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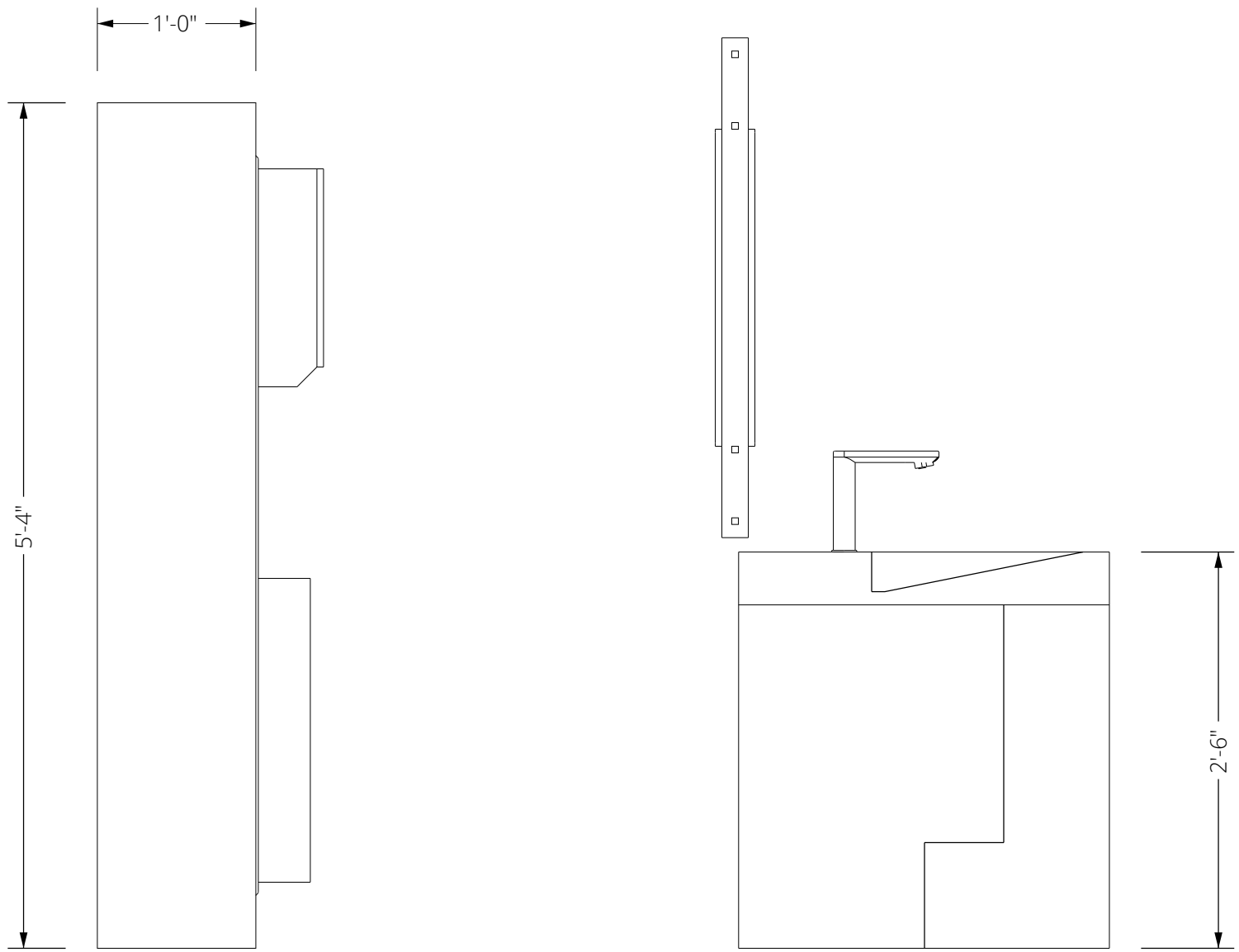
ENLARGED DETAILS

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San Antonio, TX 78209

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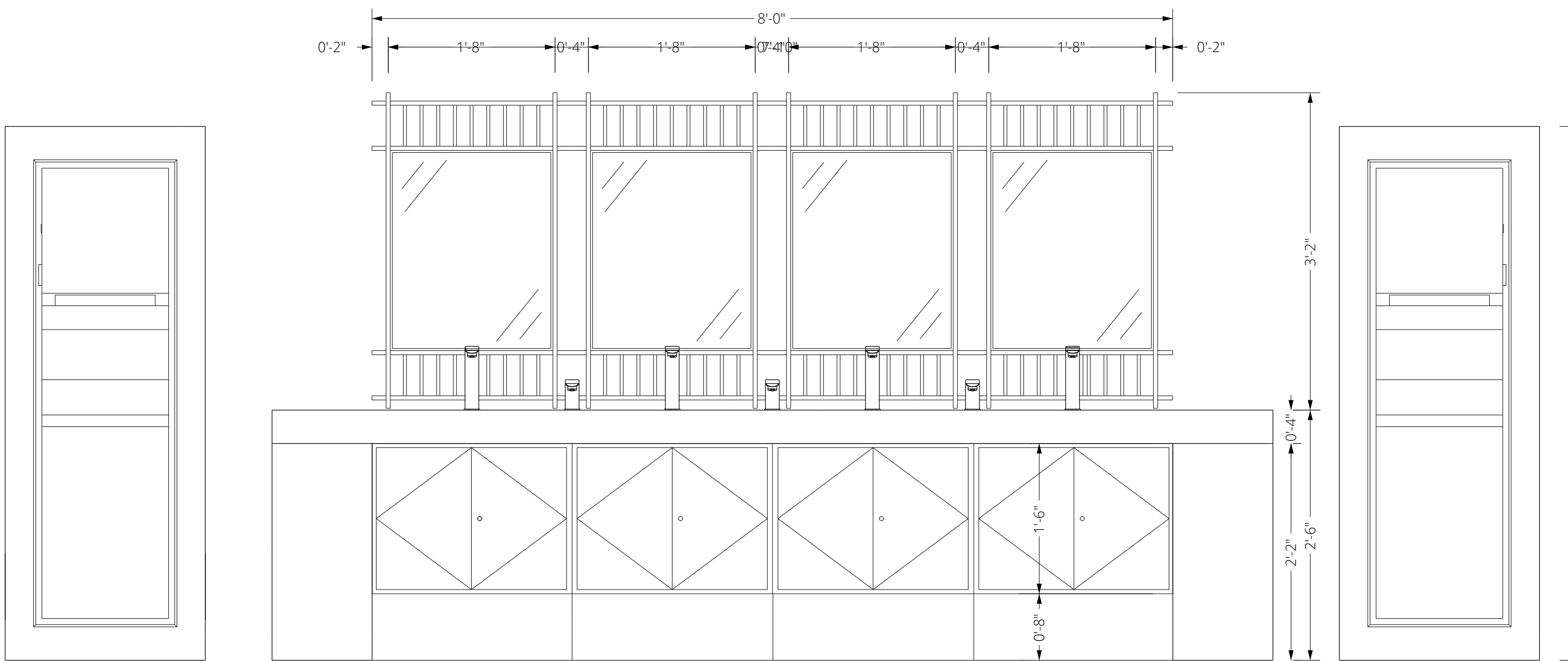
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RE

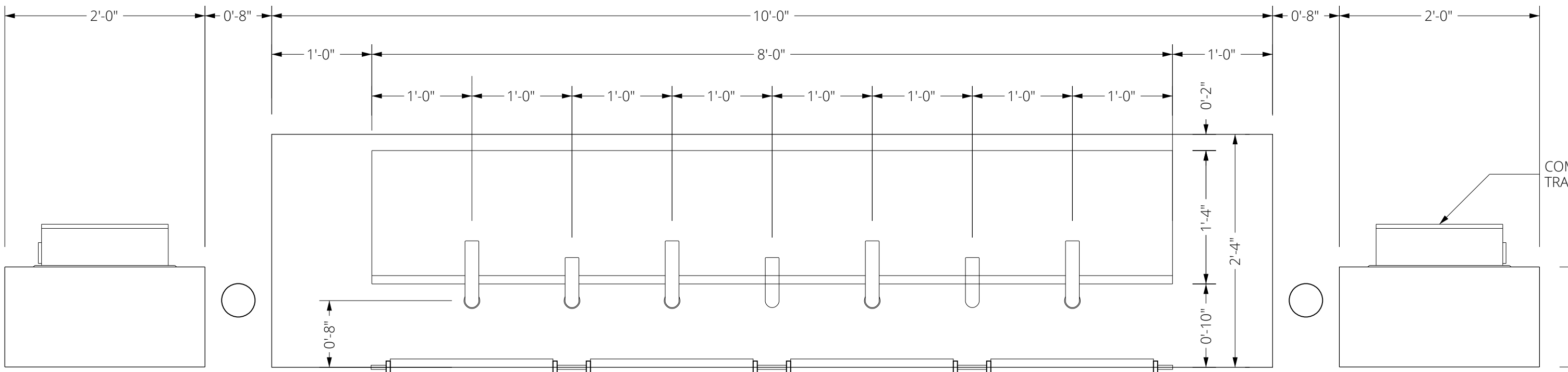


PAPER TOWEL HOUSING
04 1" = 1'-0"

LAVATORY ELEVATION - SIDE
03 1" = 1'-0"



LAVATORY ELEVATION - FRONT
02 1" = 1'-0"



LAVATORY PLAN
01 1" = 1'-0"









PEARL

GOODS

4x4

F150















