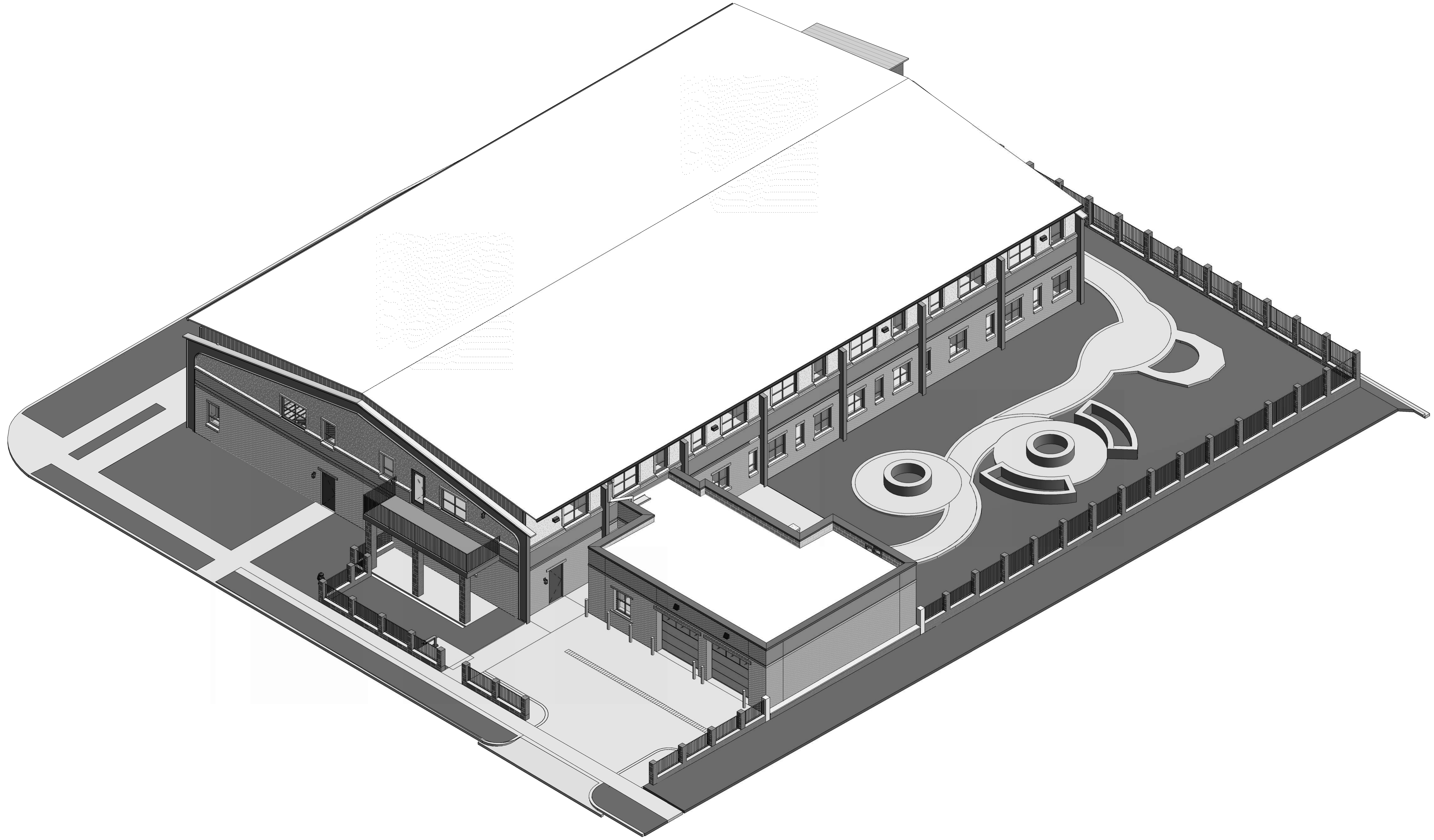

MENTAL HEALTH
JAIL DIVERSION CENTER
RENOVATION PROJECT

100% CD

County Judge
Tim O'Hare

Commissioner, Precinct 1
Roy C. Brooks

Commissioner, Precinct 2
Alisa Simmons

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REGISTERED ARCHITECT
STATE OF TEXAS
06-13-2022

MENTAL HEALTH
JAIL DIVERSION CENTER
RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

COVER SHEET

SHEET
G0-01

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INDEX OF SHEETS

CODE INFORMATION

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT
812 W. MORPHY STREET
FORT WORTH, TEXAS 76104

CODE CRITERIA

BUILDING CODE: 2021 IBC
LOCAL AMENDMENTS: FORT WORTH
ELECTRICAL CODE: 2020 NEC W/LOCAL AMENDMENTS AND 2015 IECC
MECHANICAL CODE: 2021 IMC W/LOCAL AMENDMENTS
PLUMBING CODE: 2021 IPC W/LOCAL AMENDMENTS

ACCESSIBILITY CODE: TEXAS ACCESSIBILITY STANDARDS

OCCUPANCY CLASSIFICATION

GROUP I-2

ZONING

PROPERTY ZONED ASNA-+4
MINIMUM FRONT YARD: 0 FT
MINIMUM SIDE YARD: 0 FT
MINIMUM REAR YARD: 3 FT
MAXIMUM HEIGHT: 3 STORIES
PARKING SPACES REQUIRED: NONE

CONSTRUCTION TYPE/ALLOWABLE AREA
(TABLE 506.2)

TYPE II B - NEW PARKING GARAGE
ALLOWABLE AREA = 40,000
ALLOWABLE HEIGHT = 5 STORIES

ACTUAL AREA: 1400 SF - 13'-9" HIGH - 1 STORY

FIRE RESISTIVE REQUIREMENTS
(TABLE 601)

TYPE IIB

FIRE RESISTIVE RATING - EXTERIOR WALL
(TABLE 602)

1 HR

SPACES WITH ONE MEANS OF EGRESS
(TABLE 1006.2.1)

ALLOWED: 100
ACTUAL: 1

MAXIMUM TRAVEL DISTANCE
(TABLE 1017.2)

ALLOWED: 200 FT
ACTUAL: 35 FT

CORRIDOR FIRE RESISTANCE RATING
(TABLE 1020.1)

NA

OCCUPANCY LOAD
OFFICE AREAS (100 PSF) = (171 SF) = 2
STORAGE AREAS (300 PSF) = (128+761 SF) = 3

TOTAL BUILDING OCCUPANCY = 5

REQUIRED EGRESS

WIDTH (OCCUPANCY x 0.2" PER PERSON): 5 X 0.2" = 1"
NUMBER OF EXITS REQUIRED: 1

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G0-02	INDEX AND VICINITY MAP										
G2-01	2012 TEXAS ACCESSIBILITY STANDARDS										
G2-02	2012 TEXAS ACCESSIBILITY STANDARDS										
G2-03	2012 TEXAS ACCESSIBILITY STANDARDS										
G2-04	2012 TEXAS ACCESSIBILITY STANDARDS										
CIVIL DRAWINGS											
C0.01	GENERAL NOTES										
C1.00	EXISTING CONDITIONS AND DEMOLITION PLAN										
C2.00	PAVING PLAN										
C3.00	GRADING PLAN										
C10.00	CIVIL DETAILS										
LANDSCAPING DRAWINGS											
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L1.10	TREE PROTECTION DETAILS										
L2.00	PLANING PLAN										
L2.10	PLANTING DETAILS										
L2.11	PLANTING DETAILS										
STRUCTURAL DRAWINGS											
S0-01	STRUCTURAL NOTES										
S0-02	STRUCTURAL NOTES										
S0-03	SPECIAL INSTRUCTIONS										
S1-01	OVERALL FOUNDATION PLAN										
S1-02	OVERALL ROOF FRAMING PLAN										
S1-10	ENLARGED PLANS										
S1-11	SITE DETAILS										
S3-01	TYPICAL CONCRETE DETAILS										
S3-02	TYPICAL CONCRETE DETAILS										
S3-03	CONCRETE SECTIONS										
S4-01	TYPICAL MASONRY DETAILS										
S4-02	TYPICAL MASONRY DETAILS										
S5-01	TYPICAL STEEL DETAILS										
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AD1-02	2ND FLOOR DEMOLITION FLOOR PLAN										
AD7-01	1ST FLOOR DEMOLITION REFLECTED CEILING PLAN										
AD7-02	2ND FLOOR DEMOLITION REFLECTED CEILING PLAN										
ARCHITECTURAL											
A0-01	ABBREVIATIONS, SYMBOL LEGENDS, MASONRY DETAILS										
A0-02	ARCHITECTURAL SITE PLAN										
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MPD1-12	LEVEL 2 DEMOLITION PLAN - MECHANICAL AND PLUMBING										
MP1-01	MECHANICAL AND PLUMBING SCHEDULES AND NOTES										
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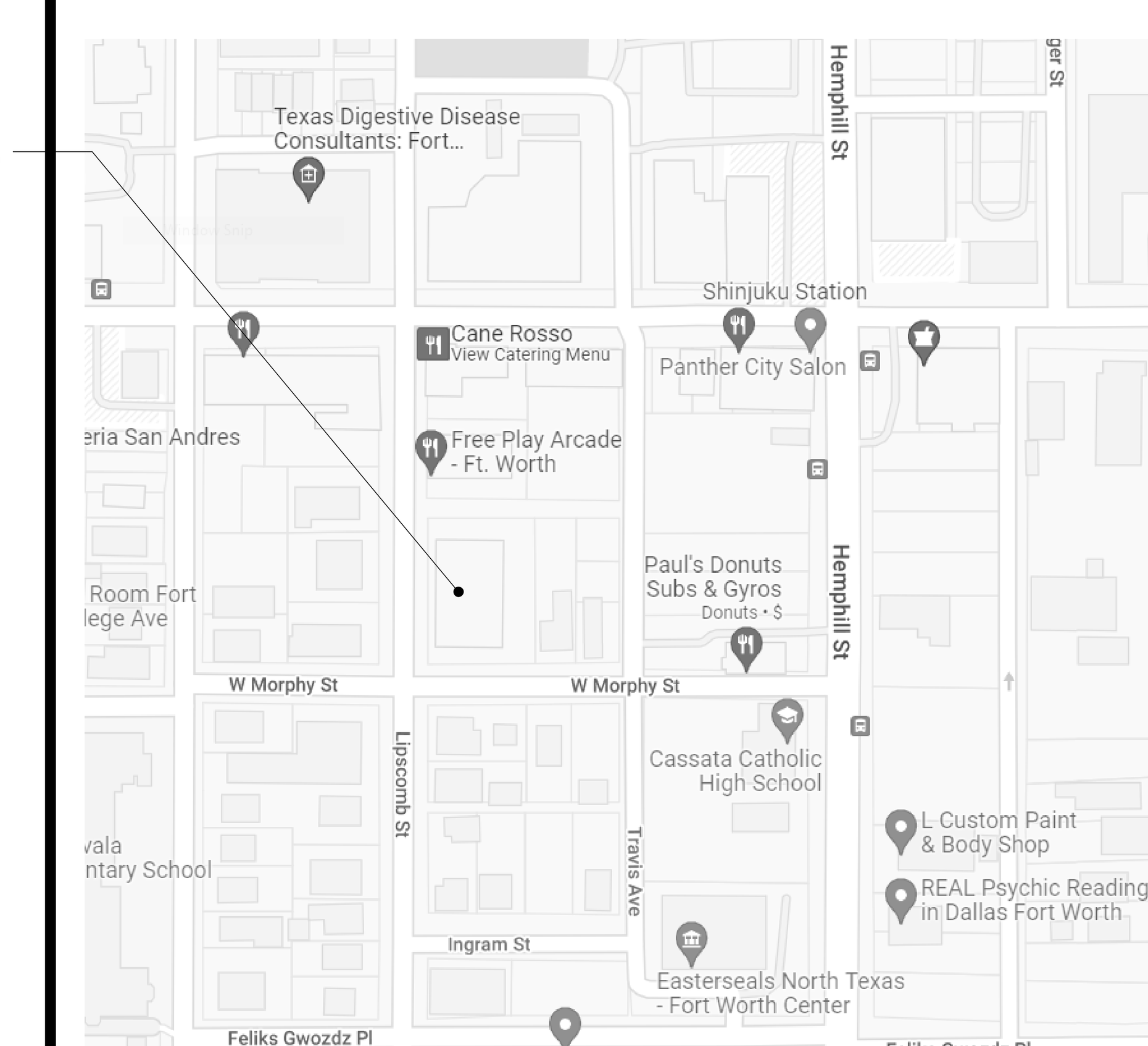
E2-12	LEVEL 2 REFLECTED CEILING PLAN - LIGHTING										

VICINITY MAP

N

812 W. MORPHY STREET
FORTH WORTH, TEXAS 76104



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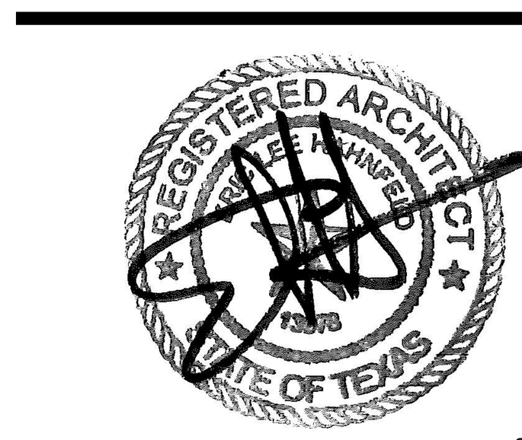

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

INDEX AND VICINITY MAP

SHEET
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(NOTE: THIS IS THE PARTIAL CONTENTS OF THE FULL 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) INFORMATION. YOU MAY OBTAIN A FULL COPY BY CONTACTING:

TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR)
ARCHITECTURAL BARRIERS SECTION
P.O.BOX 12157 AUSTIN, TEXAS 78711
(800) 803-9202 (TOLL FREE IN TEXAS)
(512) 463-6599
(512) 463-9468 (FAX)

OR GETTING A COPY BY GOING TO THEIR WEB SITE AT:
http://www.license.state.tx.us/ab/abtas.htm

TABLE OF CONTENTS 2012 Texas Accessibility Standards (PARTIAL)

CHAPTER 1: APPLICATION AND ADMINISTRATION

106 Definitions

106.1 General. For the purpose of this document, the terms defined in 106.5 have the indicated meaning.

106.2 Terms Defined in Referenced Standards. Terms not defined in 106.5 or in regulations issued by the Texas Department of Licensing and Regulation to implement Texas Government Code, Chapter 469, but specifically defined in a referenced standard, shall have the specified meaning from the referenced standard unless otherwise stated.

106.3 Undefined Terms. The meaning of terms not specifically defined in 106.5 or in regulations issued by the Texas Department of Licensing and Regulation to implement the Texas Government Code, Chapter 469, or in referenced standards shall be as defined by collegiate dictionaries in the sense that the context implies.

106.4 Interchangeability. Words, terms and phrases used in the singular include the plural and those used in the plural include the singular.

106.5 Defined Terms.

106.5.1 Accessible. A site, building, facility, or portion thereof that complies with this part.

106.5.2 Accessible Means of Egress. A continuous and unobstructed way of egress travel from any point in a building or facility that provides an accessible route to an area of refuge, a horizontal exit, or a public way.

106.5.3 Addition. An expansion, extension, or increase in the gross floor area or height of a building or facility.

106.5.4 Administrative Authority. A governmental agency that adopts or enforces regulations and guidelines for the design, construction, or alteration of buildings and facilities.

106.5.5 Alteration. A change to a building or facility that affects or could affect the usability of the building or facility or portion thereof. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historic restoration, resurfacing of circulation paths or vehicular ways, changes or rearrangement of the structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions. Normal maintenance, reroofing, painting or wallpapering, or changes to mechanical and electrical systems are not alterations unless they affect the usability of the building or facility.

106.5.6 Amusement Attraction. Any facility, or portion of a facility, located within an amusement park or theme park which provides amusement without the use of an amusement device. Amusement attractions include, but are not limited to, fun houses, barrels, and other attractions without seats.

106.5.7 Amusement Ride. A system that moves persons through a fixed course within a defined area for the purpose of amusement.

106.5.8 Amusement Ride Seat. A seat that is built-in or mechanically fastened to an amusement ride intended to be occupied by one or more passengers.

106.5.9 Area of Sport Activity. That portion of a room or space where the play or practice of a sport occurs.

106.5.10 Assembly Area. A building or facility, or portion thereof, used for the purpose of entertainment, educational or civic gatherings, or similar purposes. For the purposes of these requirements, assembly areas include, but are not limited to, classrooms, lecture halls, courtrooms, public meeting rooms, public hearing rooms, legislative chambers, motion picture houses, auditoria, theaters, playhouses, dinner theaters, concert halls, centers for the performing arts, amphitheaters, arenas, stadiums, grandstands, or convention centers.

106.5.11 Assistive Listening System (ALS). An amplification system utilizing transmitters, receivers, and coupling devices to bypass the acoustical space between a sound source and a listener by means of induction loop, radio frequency, infrared, or direct-wired equipment.

106.5.12 Boarding Pier. A portion of a pier where a boat is temporarily secured for the purpose of embarking or disembarking.

106.5.13 Boat Launch Ramp. A sloped surface designed for launching and retrieving trailered boats and other water craft to and from a body of water.

106.5.14 Boat Slip. That portion of a pier, main pier, finger pier, or float where a boat is moored for the purpose of berthing, embarking, or disembarking.

106.5.15 Building. Any structure used or intended for supporting or sheltering any use or occupancy.

106.5.16 Catch Pool. A pool or designated section of a pool used as a terminus for water slide flumes.

106.5.17 Characters. Letters, numbers, punctuation marks and typographic symbols.

106.5.18 Children's Use. Describes spaces and elements specifically designed for use primarily by people 12 years old and younger.

106.5.19 Circulation Path. An exterior or interior way of passage provided for pedestrian travel, including but not limited to, walks, hallways, courtyards, elevators, platform lifts, ramps, stairways, and landings.

106.5.20 Closed-Circuit Telephone. A telephone with a dedicated line such as a house phone, courtesy phone or phone that must be used to gain entry to a facility.

106.5.21 Common Use. Interior or exterior circulation paths, rooms, spaces, or elements that are not for public use and are made available for the shared use of two or more people.

106.5.22 Cross Slope. The slope that is perpendicular to the direction of travel (see running slope).

106.5.23 Curb Ramp. A short ramp cutting through a curb or built up to it.

106.5.24 Detectable Warning. A standardized surface feature built in or applied to walking surfaces or other elements to warn of hazards on a circulation path.

106.5.25 Disproportionality. Alterations made to provide an accessible path of travel to the altered area will be deemed disproportionate to the overall alteration when the cost exceeds 20% of the cost of the alteration to the primary function area. Costs that may be counted as expenditures required to provide an accessible path of travel may include:
(i) Costs associated with providing an accessible entrance and an accessible route to the altered area, for example, the cost of widening doorways or installing ramps;
(ii) Costs associated with making restrooms accessible, such as installing grab bars, enlarging toilet stalls, insulating pipes, or installing accessible faucet controls;
(iii) Costs associated with providing accessible telephones, such as relocating the telephone to an accessible height, installing amplification devices, or installing a text telephone (TTY); and
(iv) Costs associated with relocating an inaccessible drinking fountain. All determinations of disproportionality are made by the Department in accordance with the variance procedures contained in Chapter 68, Texas Administrative Code.

106.5.26 Element. An architectural or mechanical component of a building, facility, space, or site.

106.5.27 Elevated Play Component. A play component that is approached above or below grade and that is part of a composite play structure consisting of two or more play components attached or functionally linked to create an integrated unit providing more than one play activity.

106.5.28 Employee Work Area. All or any portion of a space used only by employees and used only for work. Corridors, toilet rooms, kitchenettes and break rooms are not employee work areas.

106.5.29 Entrance. Any access point to a building or portion of a building or facility used for the purpose of entering. An entrance includes the approach walk, the vertical access leading to the entrance platform, the entrance platform itself, vestibule if provided, the entry door or gate, and the hardware of the entry door or gate.

106.5.30 Facility. All or any portion of buildings, structures, site improvements, elements, and pedestrian routes or vehicular ways located on a site.

106.5.31 Gangway. A variable-sloped pedestrian walkway that links a fixed structure or land with a floating structure. Gangways that connect to vessels are not addressed by this document.

106.5.32 Golf Car Passage. A continuous passage on which a motorized golf car can operate.

106.5.33 Ground Level Play Component. A play component that is approached and exited at the ground level.

106.5.34 Key Station. Rapid and light rail stations, and commuter rail stations, as defined under criteria established by the Department of Transportation in 49 CFR 37.47 and 49 CFR 37.51, respectively.

106.5.35 Mail Boxes. Receptacles for the receipt of documents, packages, or other deliverable matter. Mail boxes include, but are not limited to, post office boxes and receptacles provided by commercial mail-receiving agencies, apartment facilities, or schools.

106.5.36 Marked Crossing. A crosswalk or other identified path intended for pedestrian use in crossing a vehicular way.

106.5.37 Maximum Extent Feasible. Applies to the occasional case where the nature of an existing facility makes it virtually impossible to comply fully with applicable accessibility standards through a planned alteration. In these circumstances, the alteration shall provide the maximum physical accessibility feasible. Any altered features of the facility that can be made accessible shall be made accessible. If providing accessibility in conformance with this section to individuals with certain disabilities (e.g., those who use wheelchairs) would not be feasible, the facility shall be made accessible to persons with other types of disabilities (e.g., those who use crutches, those who have impaired vision or hearing, or those who have other impairments).
All determinations of maximum extent feasible are made by the Department in accordance with the variance procedures contained in Chapter 68, Texas Administrative Code.

106.5.38 Mezzanine. An intermediate level or levels between the floor and ceiling of any story with an aggregate floor area of not more than one-third of the area of the room or space in which the level or levels are located. Mezzanines have sufficient elevation that space for human occupancy can be provided on the floor below.

106.5.39 Occupant Load. The number of persons for which the means of egress of a building or portion of a building is designed.

106.5.40 Operable Part. A component of an element used to insert or withdraw objects, or to activate, deactivate, or adjust the element.

106.5.41 Path of Travel. A continuous, unobstructed way of pedestrian passage by means of which the altered area may be approached, entered, and exited, and which connects the altered area with an exterior approach (including sidewalks, streets, and parking areas), an entrance to the facility, and other parts of the facility. An accessible path of travel may consist of walks and sidewalks, curb ramps and other interior or exterior pedestrian ramps; clear floor paths through lobbies, corridors, rooms, and other improved areas; parking access aisles; elevators and lifts; or a combination of these elements. The term "path of travel" also includes the restrooms, telephones, and drinking fountains serving the altered area.
The obligation to provide an accessible path of travel may not be evaded by performing a series of small alterations to the area served by a single path of travel if those alterations could have been performed as a single undertaking. If an area containing a primary function has been altered without providing an accessible path of travel to that area, and subsequent alterations of that area, or a different area on the same path of travel, are undertaken within three years of the original alteration, the total cost of alterations to the primary function areas on that path of travel during the preceding three year period shall be considered in determining whether the cost of making that path of travel accessible is disproportionate. Also see definition of "Disproportionality ".

106.5.42 Pictogram. A pictorial symbol that represents activities, facilities, or concepts.

106.5.43 Play Area. A portion of a site containing play components designed and constructed for children.

106.5.44 Play Component. An element intended to generate specific opportunities for play, socialization, or learning. Play components are manufactured or natural; and are stand-alone or part of a composite play structure.

106.5.45 Primary Function. A major activity for which the facility is intended. Areas that contain a primary function include, but are not limited to, the customer services lobby of a bank, the dining area of a cafeteria, the meeting rooms in a conference center, as well as offices and other work areas in which the activities of the public accommodation or other private entity using the facility are carried out. Mechanical rooms, boiler rooms, supply storage rooms, employee lounges or locker rooms, janitorial closets, entrances, corridors, and restrooms are not areas containing a primary function. Alterations that affect the usability of or access to an area containing a primary function include, but are not limited to:
(i) Remodeling merchandise display areas or employee work areas in a department store;
(ii) Replacing an inaccessible floor surface in the customer service or employee work areas of a bank;
(iii) Redesigning the assembly line area of a factory; or
(iv) Installing a computer center in an accounting firm.
For the purposes of this section, alterations to windows, hardware, controls, electrical outlets, and signage shall not be deemed to be alterations that affect the usability of or access to an area containing a primary function.

106.5.46 Private Building or Facility. A place of public accommodation or a commercial building or facility subject to Texas Government Code, Chapter 469.

106.5.47 Professional Office of a Health Care Provider. A location where a person or entity regulated by Texas to provide professional services related to the physical or mental health of an individual makes such services available to the public. The facility housing the "professional office of a health care provider" only includes floor levels housing at least one health care provider, or any floor level designed or intended for use by at least one health care provider.

106.5.48 Public Building or Facility. A building or facility or portion of a building or facility designed, constructed, or altered by, on behalf of, or for the use of a public entity subject to Texas Government Code, Chapter 469.

106.5.49 Public Entrance. An entrance that is not a service entrance or a restricted entrance.

106.5.50 Public Use. Interior or exterior rooms, spaces, or elements that are made available to the public. Public use may be provided at a building or facility that is privately or publicly owned.

106.5.51 Public Way. Any street, alley or other parcel of land open to the outside air leading to a public street, which has been deeded, dedicated or otherwise permanently appropriated to the public for public use and which has a clear width and height of not less than 10 feet (3050 mm).

106.5.52 Qualified Historic Building or Facility. A building or facility that is listed in or eligible for listing in the National Register of Historic Places, or designated as a Recorded Texas Historic Landmark or State Archeological Landmark.

106.5.53 Ramp. A walking surface that has a running slope steeper than 1:20.

106.5.54 Residential Dwelling Unit. A unit intended to be used as a residence that is primarily long- term in nature. Residential dwelling units do not include transient lodging, inpatient medical care, licensed long-term care, and detention or correctional facilities.

106.5.55 Restricted Entrance. An entrance that is made available for common use on a controlled basis but not public use and that is not a service entrance.

106.5.56 Running Slope. The slope that is parallel to the direction of travel (see cross slope).

106.5.57 Safe Harbor. Elements of a path of travel at a subject building or facility that have been previously constructed or altered in accordance with the April 1, 1994 Texas Accessibility Standards (TAS) are not required to be retrofitted to reflect the incremental changes in the 2012 TAS solely because of an alteration to a primary function area served by that path of travel. Those elements would be subject to compliance with the 2012 TAS only when the elements of a path of travel are being altered.

106.5.58 Self-Service Storage. Building or facility designed and used for the purpose of renting or leasing Individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

106.5.59 Service Entrance. An entrance intended primarily for delivery of goods or services.

106.5.60 Shopping Center or Shopping Mall. A building housing five or more sales or rental establishments; or a series of buildings on a common site, either under common ownership or common control or developed either as one project or as a series of related projects, housing five or more sales or rental establishments. For purposes of this standard, places of public accommodation of the types listed in the definition of "place of public accommodation " in Chapter 68, Texas Administrative Code are considered sales or rental establishments. The facility housing a "shopping center or shopping mall" only includes floor levels housing at least one sales or rental establishment, or any floor level designed or intended for use by at least one sales or rental establishment.

106.5.61 Site. A parcel of land bounded by a property line or a designated portion of a public right-of- way.

106.5.62 Soft Contained Play Structure. A play structure made up of one or more play components where the user enters a fully enclosed play environment that utilizes pliable materials, such as plastic, netting, or fabric.

106.5.63 Space. A definable area, such as a room, toilet room, hall, assembly area, entrance, storage room, alcove, courtyard, or lobby.

106.5.64 Story. That portion of a building or facility designed for human occupancy included between the upper surface of a floor and upper surface of the floor or roof next above. A story containing one or more mezzanines has more than one floor level.

106.5.65 Structural Frame. The columns and the girders, beams, and trusses having direct connections to the columns and all other members that are essential to the stability of the building or facility as a whole.

106.5.66 Structural Impracticability. In new construction, full compliance with the requirements of these standards is not required where an entity can demonstrate that it is structurally impracticable to meet the requirements. Full compliance will be considered structurally impracticable only in those rare circumstances when the unique characteristics of terrain prevent the incorporation of accessibility features. If full compliance with these standards would be structurally impracticable, compliance with these standards is required to the extent that it is not structurally impracticable. In that case, any portion of the facility that can be made accessible shall be made accessible to the extent that it is not structurally impracticable. If providing accessibility in conformance with these standards to individuals with certain disabilities (e.g., those who use wheelchairs) would be structurally impracticable, accessibility shall nonetheless be ensured to persons with other types of disabilities (e.g., those who use crutches or who have sight, hearing, or mental impairments) in accordance with these standards. All determinations of structural impracticability are made by the Department in accordance with the variance procedures contained in Chapter 68, Texas Administrative Code.

106.5.67 Tactile. An object that can be perceived using the sense of touch.

106.5.68 Technically Infeasible. With respect to an alteration of a building or a facility, something that has little likelihood of being accomplished because existing structural conditions would require removing or altering a load-bearing member that is an essential part of the structural frame; or because other existing physical or site constraints prohibit modification or addition of elements, spaces, or features that are in full and strict compliance with the minimum requirements. All determinations of technical infeasibility are made by the Department in accordance with the variance procedures contained in Chapter 68, Texas Administrative Code.

106.5.69 Teeing Ground. In golf, the starting place for the hole to be played.

106.5.70 Transfer Device. Equipment designed to facilitate the transfer of a person from a wheelchair or other mobility aid to and from an amusement ride seat.

106.5.71 Transient Lodging. A building or facility containing one or more guest room(s) for sleeping that provides accommodations that are primarily short-term in nature. Transient lodging does not include residential dwelling units intended to be used as a residence, inpatient medical care facilities, licensed long-term care facilities, detention or correctional facilities, or private buildings or facilities that contain not more than five rooms for rent or hire and that are actually occupied by the proprietor as the residence of such proprietor.

106.5.72 Transition Plate. A sloping pedestrian walking surface located at the end(s) of a gangway.

106.5.73 TTY. An abbreviation for teletypewriter. Machinery that employs interactive text-based communication through the transmission of coded signals across the telephone network. TTYs may include, for example, devices known as TDDs (telecommunication display devices or telecommunication devices for deaf persons) or computers with special modems. TTYs are also called text telephones.

106.5.74 Use Zone. The ground level area beneath and immediately adjacent to a play structure or play equipment that is designated by ASTM F 1487 (incorporated by reference, see "Referenced Standards" in Chapter
1) for unrestricted circulation around the play equipment and where it is predicted that a user would land when falling from or exiting the play equipment.

106.5.75 Vehicular Way. A route provided for vehicular traffic, such as in a street, driveway, or parking facility.

106.5.76 Walk. An exterior prepared surface for pedestrian use, including pedestrian areas such as plazas and courts.

106.5.77 Wheelchair Space. Space for a single wheelchair and its occupant.

106.5.78 Work Area Equipment. Any machine, instrument, engine, motor, pump, conveyor, or other apparatus used to perform work. As used in this document, this term shall apply only to equipment that is permanently installed or built-in in employee work areas. Work area equipment does not include passenger elevators and other accessible means of vertical transportation.

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

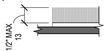

Figure 302.2 Carpet Pile Height

303 Changes in Level

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

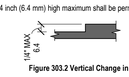

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

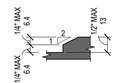

Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

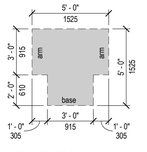

Figure 304.3.2 T-Shaped Turning Space

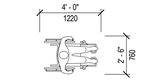

Figure 305.3 Clear Floor or Ground Space

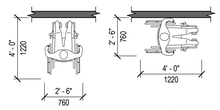

Figure 305.5 Position of Clear Floor or Ground Space

305 Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

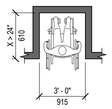

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

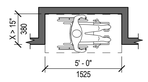

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

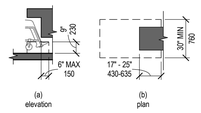

Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

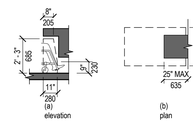

Figure 306.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

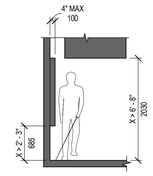

Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

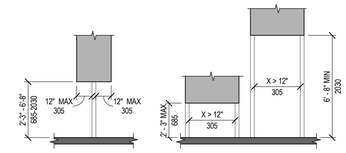

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

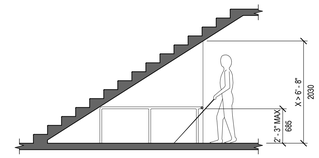

Figure 307.4 Vertical Clearance

308 Reach Ranges

Children's Reach Ranges

Forward or Side Reach	High (Maximum)	Low (Minimum)
Ages 3 and 4	36 in (915 mm)	20 in (510 mm)
Ages 5 through 8	40 in (1015 mm)	18 in (456 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

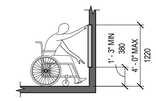

Figure 308.2.1 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

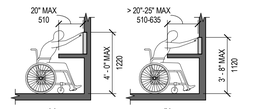

Figure 308.2.2 Obstructed High Forward Reach

Hahnfeld Hoffer Stanford
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Fort Worth, Texas 76107
817.921.5928
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CIVIL ENGINEER
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LANDSCAPE ARCHITECT
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MECH. / ELEC. / PLBG. ENGINEER
BAIRD, HAMPTON & BROWN, INC.
6300 Ridglea Place, Suite 700
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REGISTERED ARCHITECT
STATE OF TEXAS

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F | MANAGER:ELH
ISSUED FOR: 100% CD | DRAFTER: MET
ISSUE DATE: 06.13.2022 | CHECKED: ELH

2012 TEXAS ACCESSIBILITY STANDARDS

SHEET
G2-01

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308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

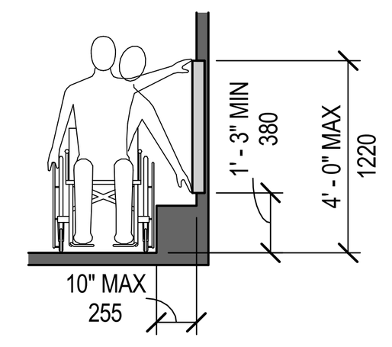

Figure 308.3.1 Unobstructed Side Reach

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

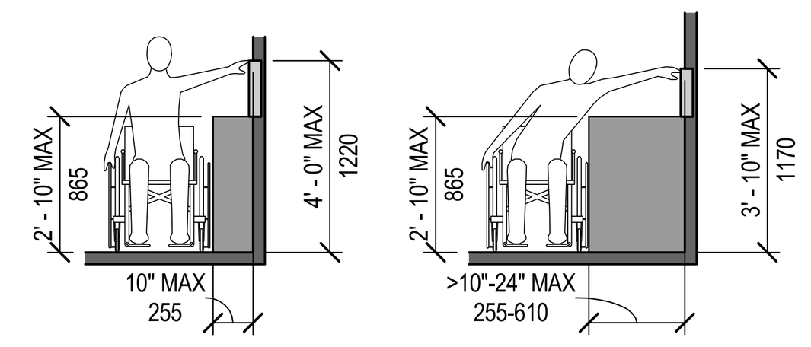

Figure 308.3.2 Obstructed High Side Reach

<u>309 Operable Parts</u>

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

<u>402 Accessible Routes</u>

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

<u>403 Walking Surfaces</u>

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

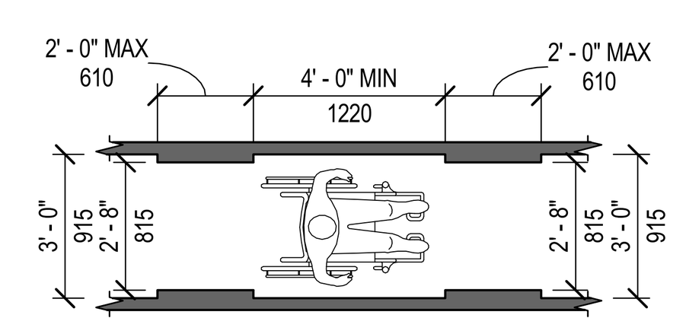

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

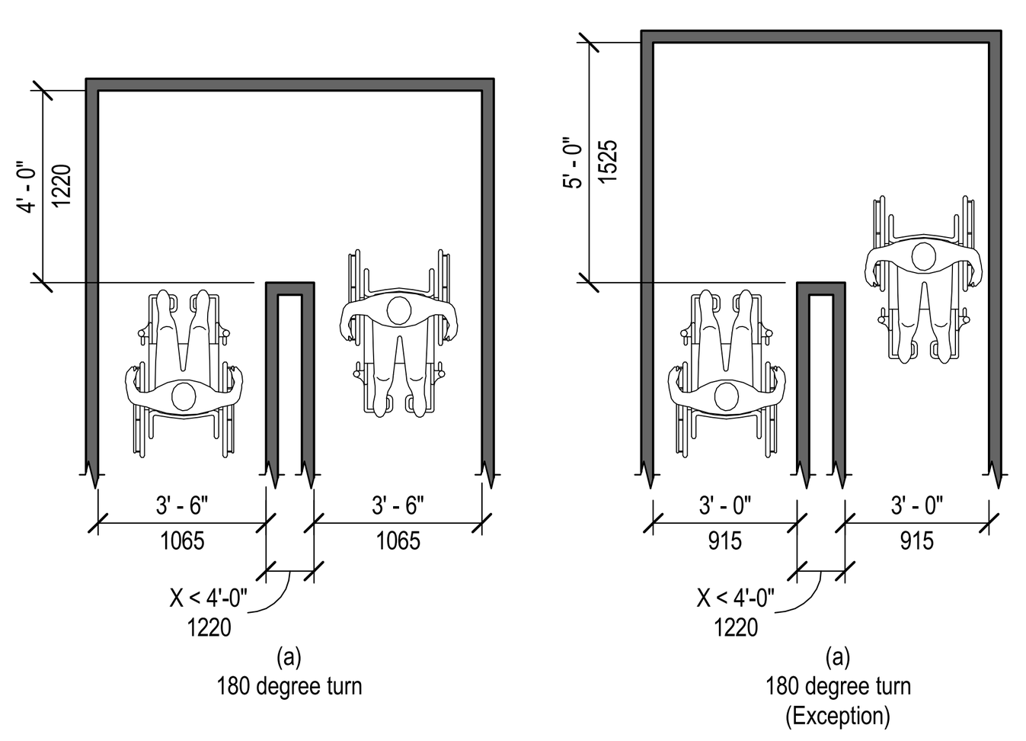

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

<u>404 Doors, Doorways, and Gates</u>

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

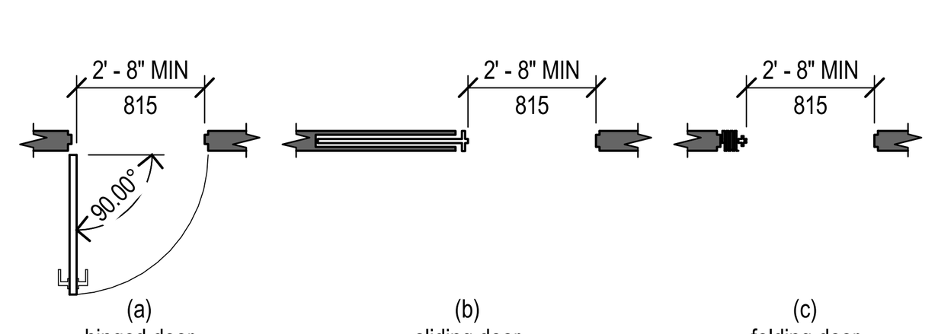

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

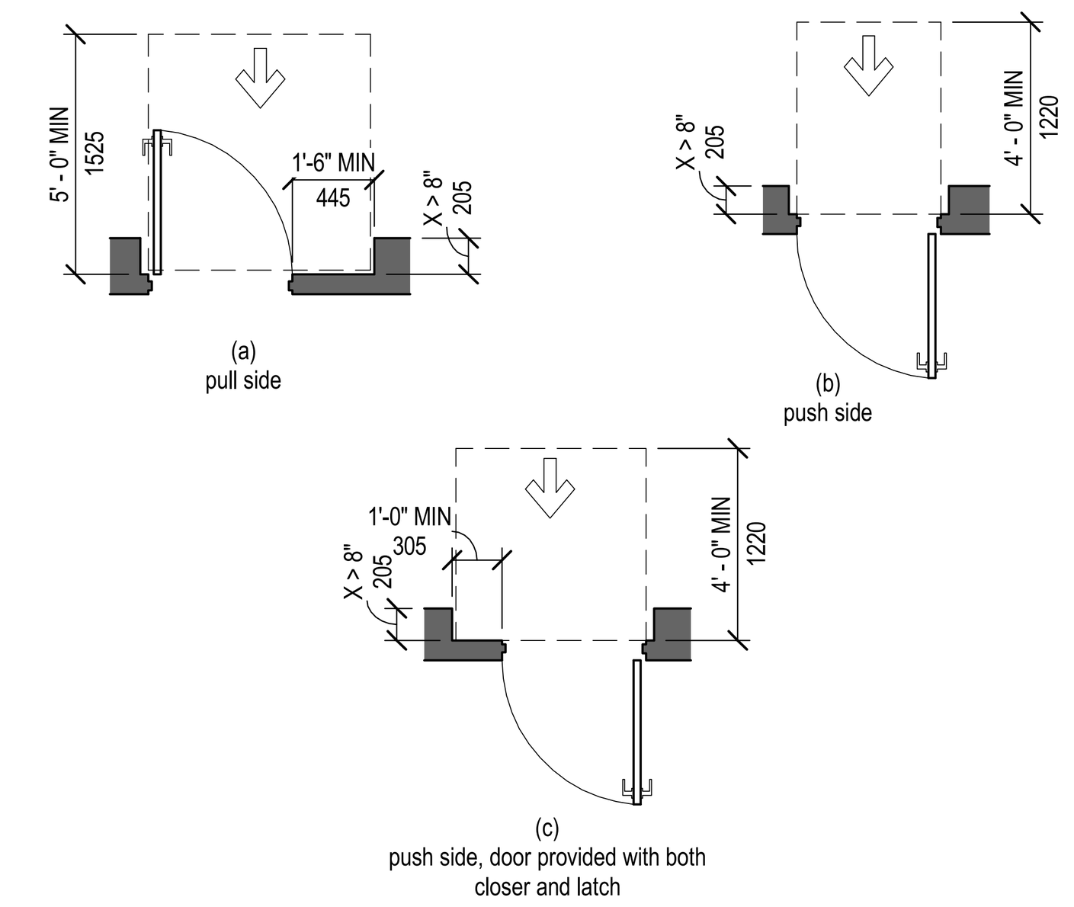

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

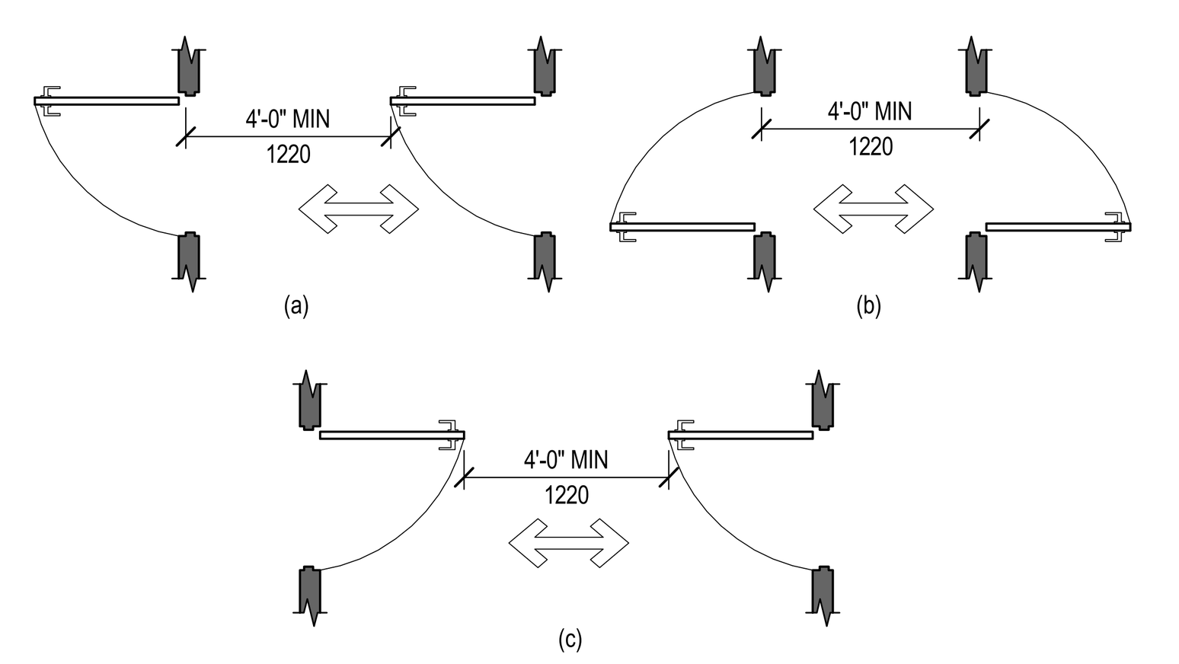

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

<u>405 Ramps</u>

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

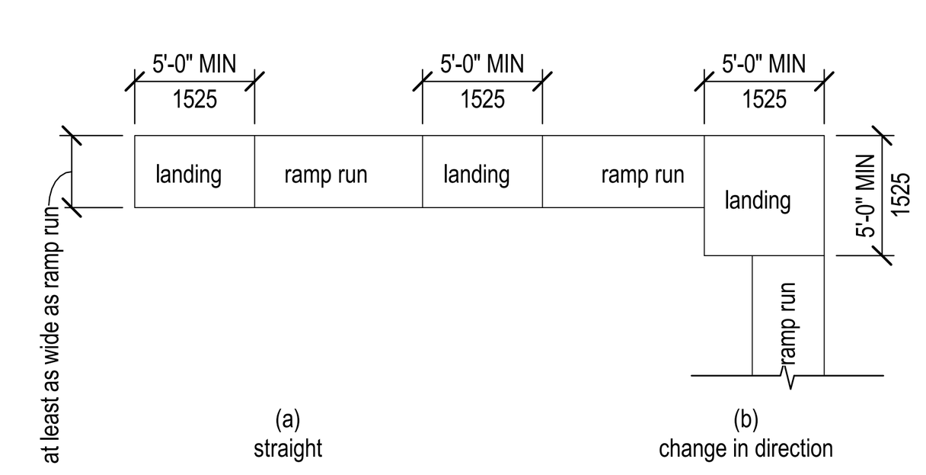

Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing area.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

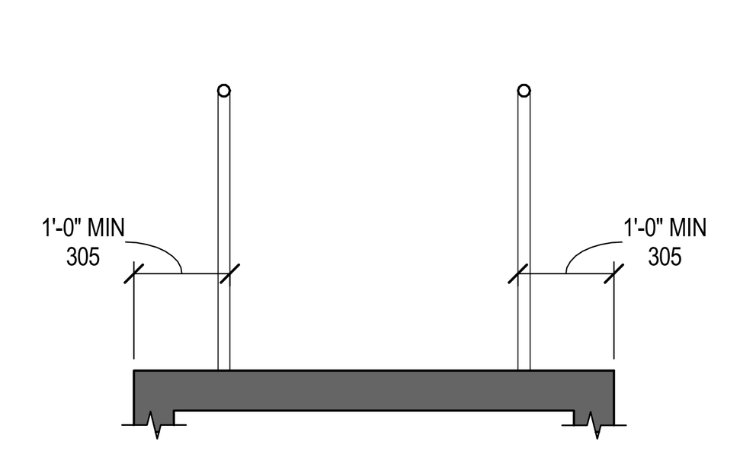

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

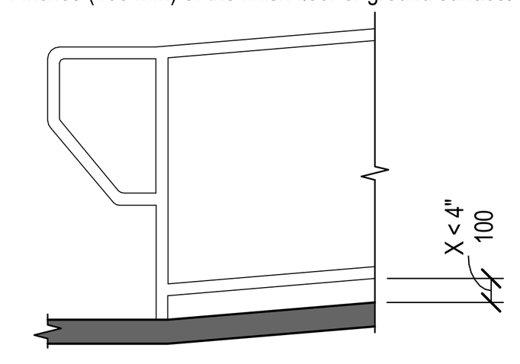

Figure 405.9.2 Curb or Barrier Edge Protection

<u>406 Curb Ramps</u>

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

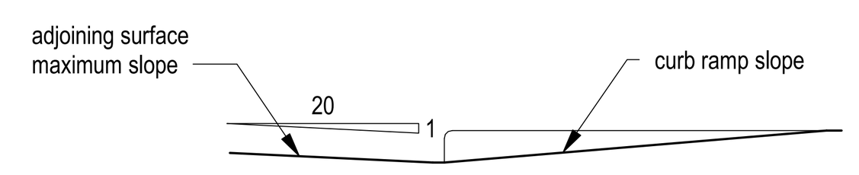

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

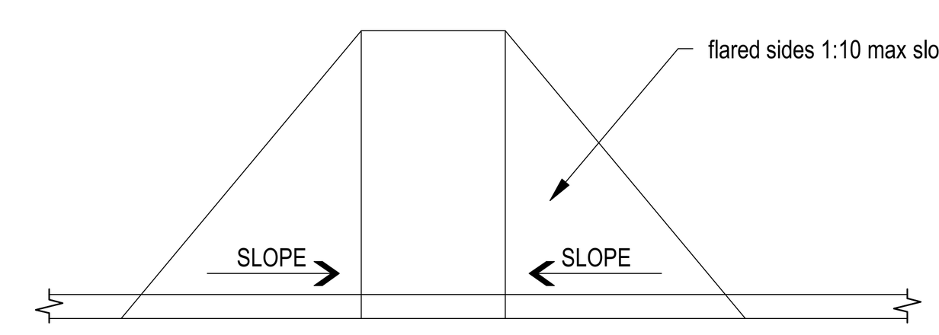

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

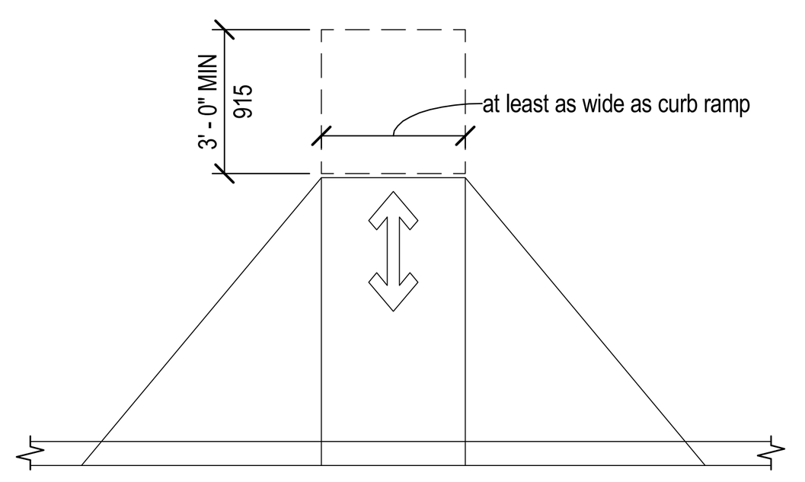

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

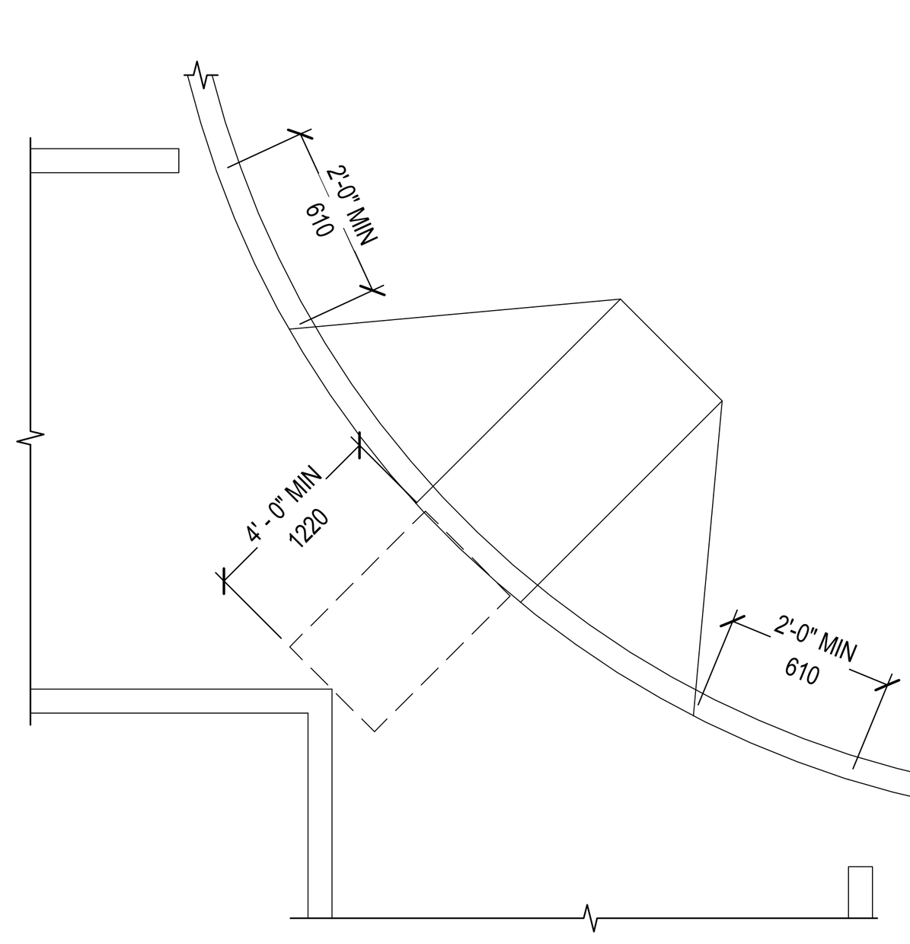

Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

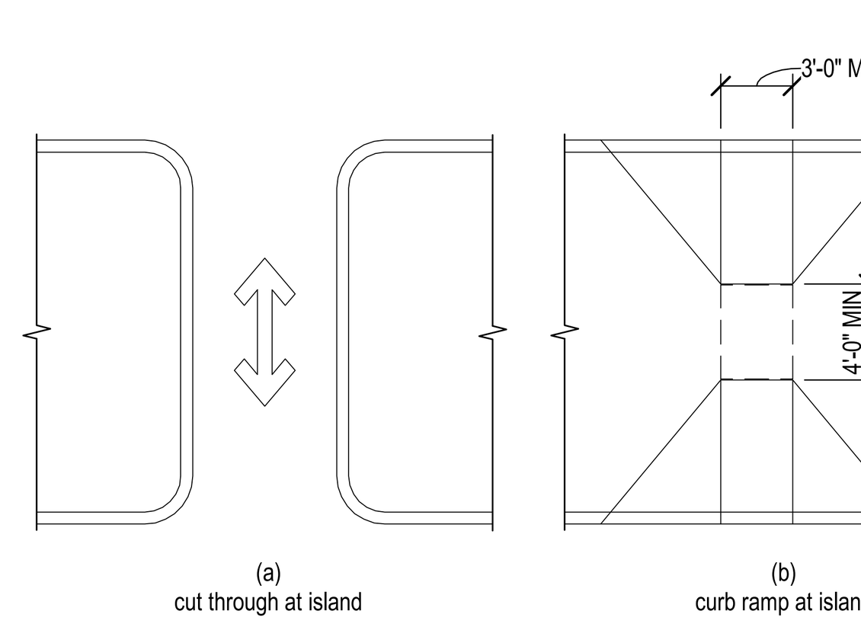

Figure 406.7 Islands in Crossings

<u>407 Elevators</u>

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

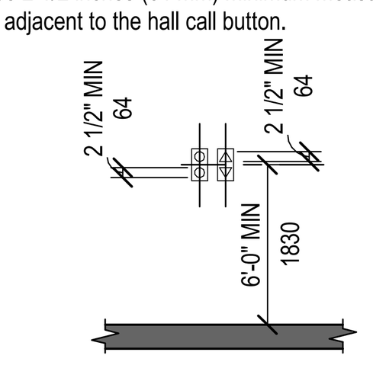

Figure 407.2.2.2 Visible Hall Signals

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

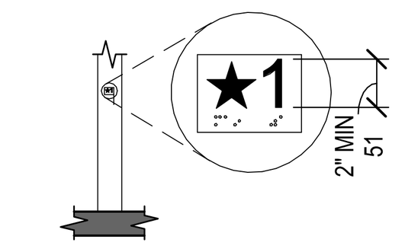

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

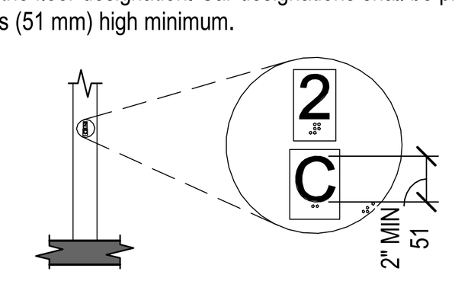

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:

$T = D/(1.5\ ft/s)$ or $T = D/(455\ mm/s) = 5$ seconds minimum

where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

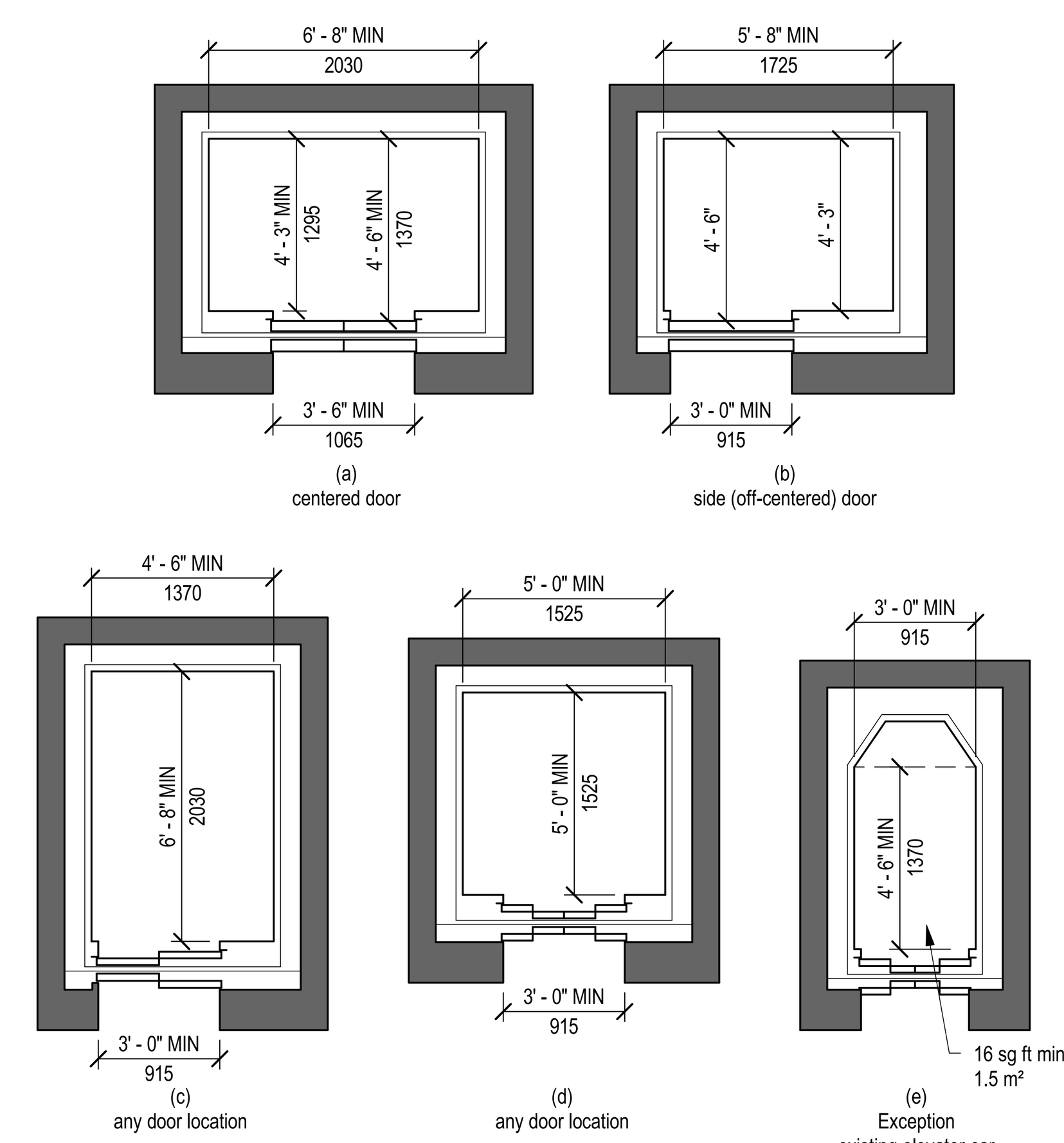

Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

<u>408 Limited-Use/Limited-Application Elevators</u>

408.1 General. Limited-use/limited-application elevators shall comply with 408 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

408.2 Elevator Landings. Landings serving limited-use/limited-application elevators shall comply with 408.2.

408.2.1 Call Buttons. Elevator call buttons and keypads shall comply with 407.2.1.

408.2.2 Hall Signals. Hall signals shall comply with 407.2.2.

408.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.1.

408.3 Elevator Doors. Elevator hoistway doors shall comply with 408.3.

408.3.1 Sliding Doors. Sliding hoistway and car doors shall comply with 407.3.1 through 407.3.3 and 408.4.1.

408.3.2 Swinging Doors. Swinging hoistway doors shall open and close automatically and shall comply with 404, 407.3.2 and 408.3.2.

408.3.2.1 Power Operation. Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

408.3.2.2 Duration. Power-operated swinging doors shall remain open for 20 seconds minimum when activated.

408.4 Elevator Cars. Elevator cars shall comply with 408.4.

408.4.1 Car Dimensions and Doors. Elevator cars shall provide a clear width 42 inches (1065 mm) minimum and a clear depth 54 inches (1370 mm) minimum. Car doors shall be positioned at the narrow ends of cars and shall provide 32 inches (815 mm) minimum clear width.

KEYED NOTES

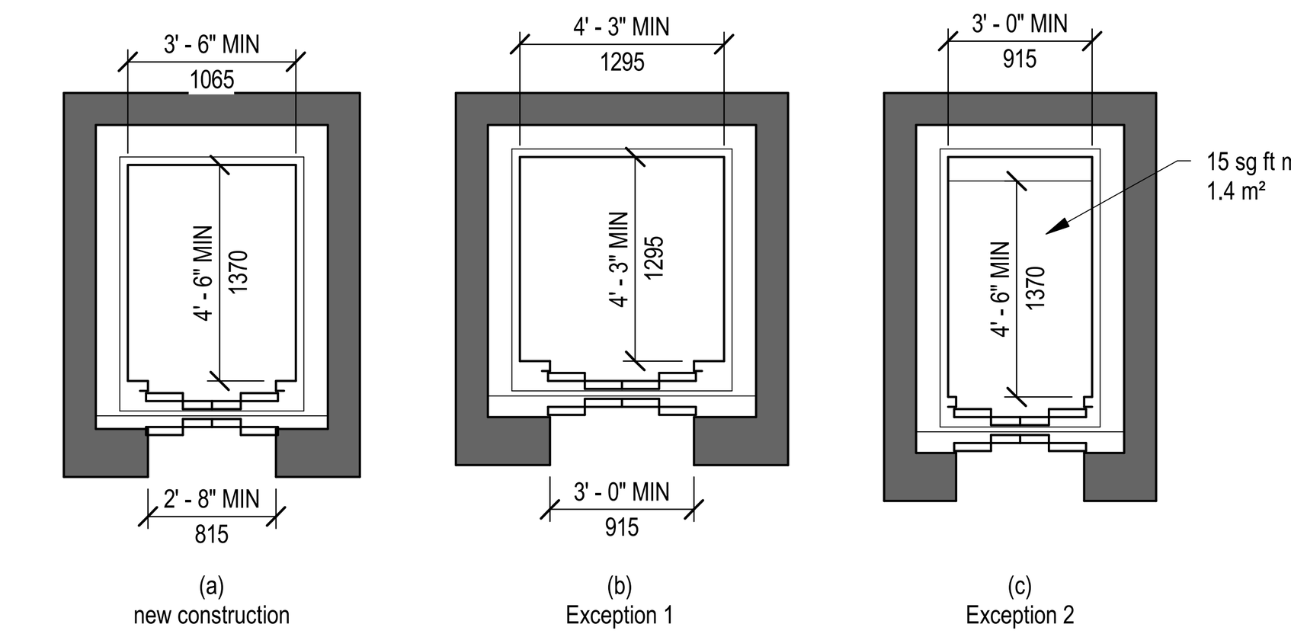

Figure 408.4.1 Limited-Use/Limited-Application (LULA) Elevator Car Dimensions

408.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

408.4.3 Platform to Hoistway Clearance. The platform to hoistway clearance shall comply with 407.4.3.

408.4.4 Leveling. Elevator car leveling shall comply with 407.4.4.

408.4.5 Illumination. Elevator car illumination shall comply with 407.4.5.

408.4.6 Car Controls. Elevator car controls shall comply with 407.4.6. Control panels shall be centered on a side wall.

408.4.7 Designations and Indicators of Car Controls. Designations and indicators of car controls shall comply with 407.4.7.

408.4.8 Emergency Communications. Car emergency signaling devices complying with 407.4.9 shall be provided.

<u>409 Private Residence Elevators</u>

409.1 General. Private residence elevators that are provided within a residential dwelling unit required to provide mobility features complying with 809.2 through 809.4 shall comply with 409 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

409.2 Call Buttons. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension and shall comply with 309.

409.3 Elevator Doors. Hoistway doors, car doors, and car gates shall comply with 409.3 and 404.

409.3.1 Power Operation. Elevator car and hoistway doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Power operated doors and gates shall remain open for 20 seconds minimum when activated.

409.3.2 Location. Elevator car doors or gates shall be positioned at the narrow end of the clear floor spaces required by 409.4.1.

409.4 Elevator Cars. Private residence elevator cars shall comply with 409.4.

409.4.1 Inside Dimensions of Elevator Cars. Elevator cars shall provide a clear floor space of 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum and shall comply with 305.

409.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

409.4.3 Platform to Hoistway Clearance. The clearance between the car platform and the edge of any landing sill shall be 1 1/2 inch (38 mm) maximum.

409.4.4 Leveling. Each car shall automatically stop at a floor landing within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

409.4.5 Illumination Levels. Elevator car illumination shall comply with 407.4.5.

409.4.6 Car Controls. Elevator car control buttons shall comply with 409.4.6, 309.3, 309.4, and shall be raised or flush.

409.4.6.1 Size. Control buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

409.4.6.2 Location. Control panels shall be on a side wall, 12 inches (305 mm) minimum from any adjacent wall.

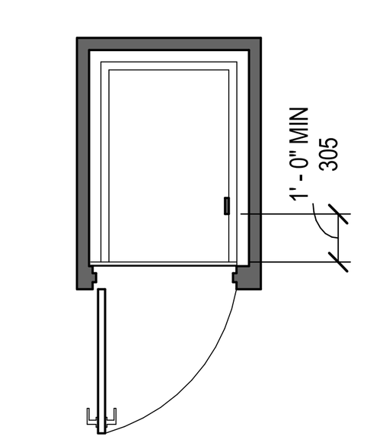

Figure 409.4.6.2 Location of Private Residence Elevator Control Panel

409.4.7 Emergency Communications. Emergency two-way communication systems shall comply with 409.4.7.

409.4.7.1 Type. A telephone and emergency signal device shall be provided in the car.

409.4.7.2 Operable Parts. The telephone and emergency signaling device shall comply with 309.3 and 309.4.

409.4.7.3 Compartment. If the telephone or device is in a closed compartment, the compartment door hardware shall comply with 309.

409.4.7.4 Cord. The telephone cord shall be 29 inches (735 mm) long minimum.

<u>410 Platform Lifts</u>

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

Advisory 410.1 General. Inclined stairway chairlifts and inclined and vertical platform lifts are available for short-distance vertical transportation. Because an accessible route requires an 80 inch (2030 mm) vertical clearance, care should be taken in selecting lifts as they may not be equally suitable for use by people using wheelchairs and people standing. If a lift does not provide 80 inch (2030 mm) vertical clearance, it cannot be considered part of an accessible route in new construction.

The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standard for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

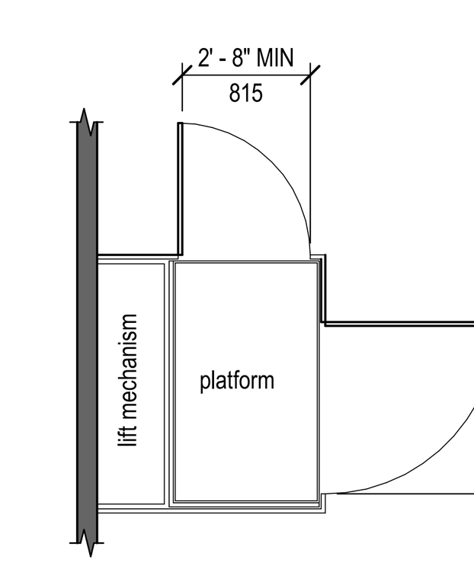

Figure 410.6 Platform Lift Doors and Gates

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06-13-2022

MENTAL HEALTH
JAIL DIVERSION CENTER
RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:ELH
ISSUED FOR: 100% CD	DRAFTER: MET
ISSUE DATE: 06.13.2022	CHECKED: ELH

2012 TEXAS ACCESSIBILITY STANDARDS

SHEET

G2-02

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

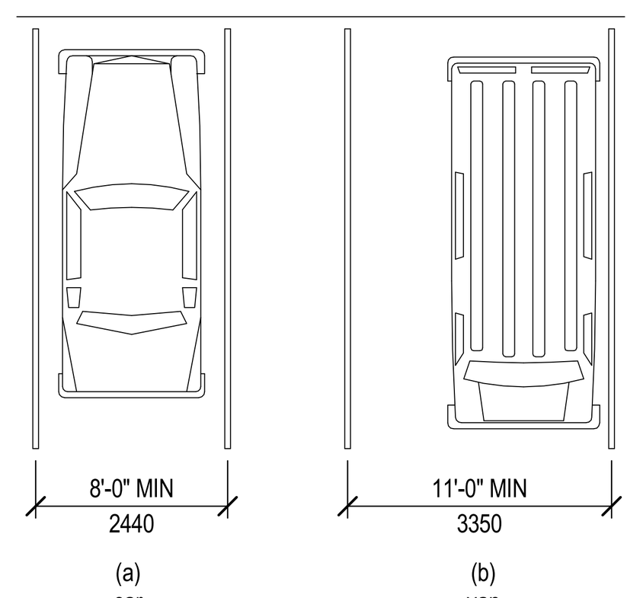

Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

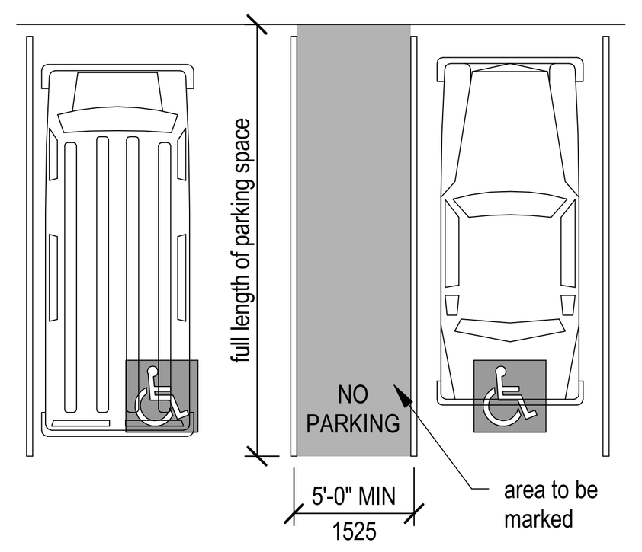

Figure 502.3 Parking Space Access Aisle
(Revised per 68.104)

68.104. Accessible Parking Spaces.
(a) Accessible parking spaces must include:
(1) the International Symbol of Accesibility painted conspicuously on the surface in a color that contrasts with the pavement;
(2) the words "NO PARKING" painted on any access aisle adjacent to the parking space. The words must be painted:
(A) in all capital letters;
(B) with a letter height of at least 12 inches and a stroke of at least 2 inches; and
(C) centered within each access aisle adjacent to the parking space; and
(3) a sign identifying the consequences of parking illegally in a paved accessible parking space.
The sign must:
(A) at a minimum state "Violators Subject to Fine and Towing" in a letter height of at least one inch;
(B) be mounted on a pole, post, wall or freestanding board;
(C) be no more than 8" below a sign required by Texas Accessibility Standards, 502.6; and
(D) be installed so that the bottom edge of the sign is no lower than 48" and no higher than 80" above ground level.
(b) A parking space identification sign that complies with Texas Accessibility Standards, 502.6, that includes the requirements in subsection (a)(3)(A) satisfies subsection (a)(3).

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them

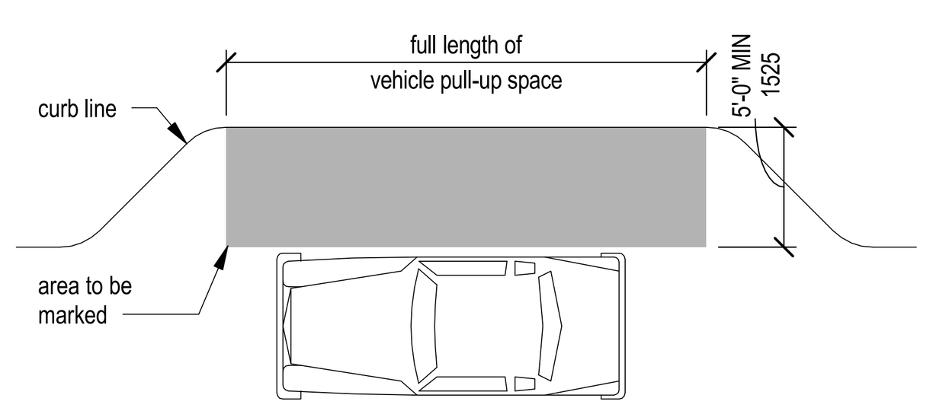

Figure 503.3 Passenger Loading Zone Access Aisle

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

504 Stairways

504.1 General. Stairs that are part of the means of egress is required to comply with 504

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

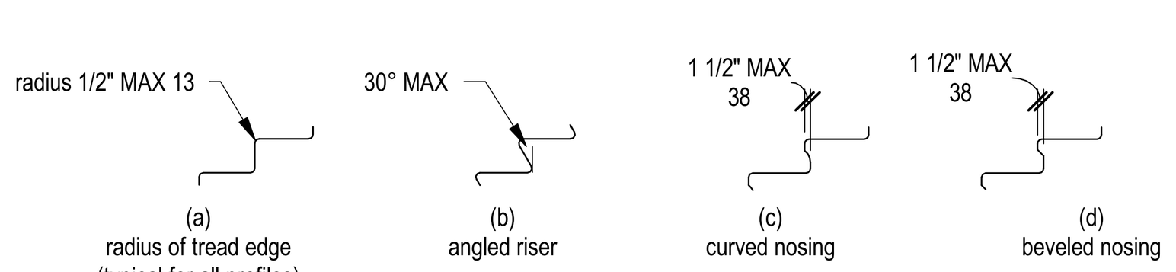

Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

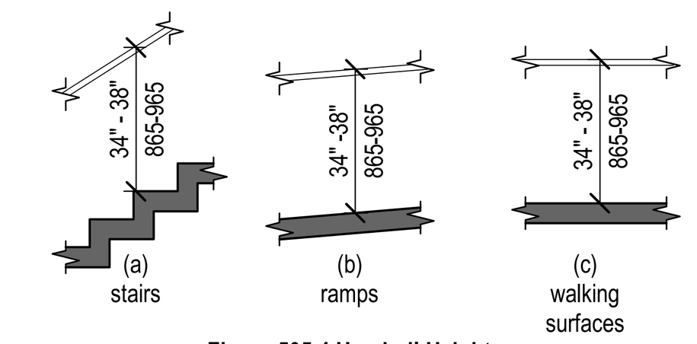

Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

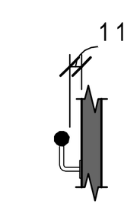

Figure 505.5 Handrail Clearance

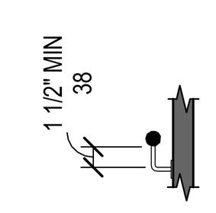

Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

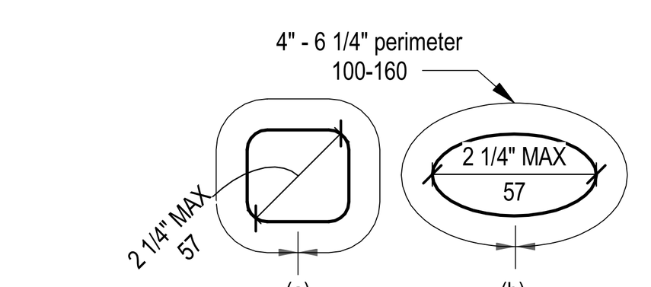

Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

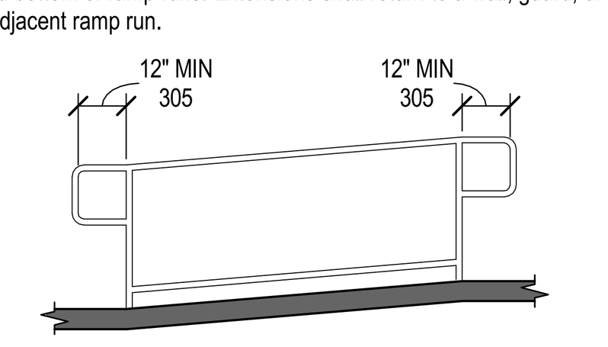

Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

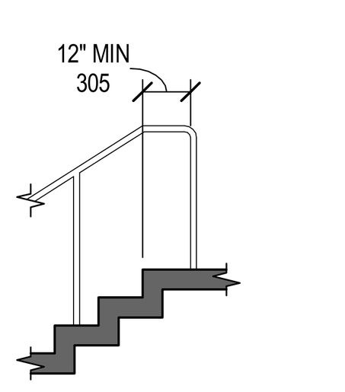

Figure 505.10.2 Top Handrail Extension at Stairs

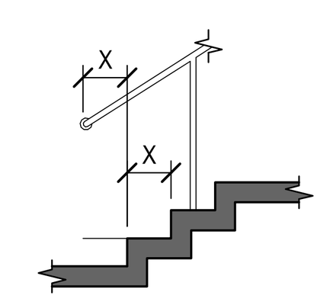

Figure 505.10.3 Bottom Handrail Extension at Stairs

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

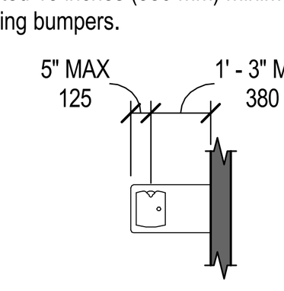

Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603 Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

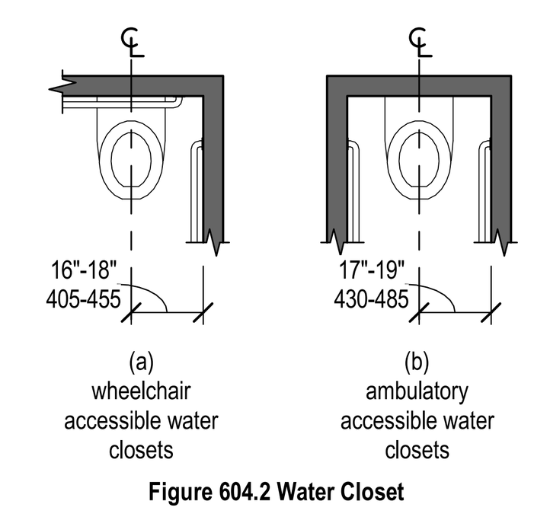

Figure 604.2 Water Closet

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

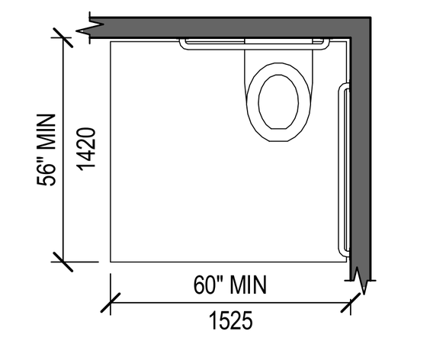

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

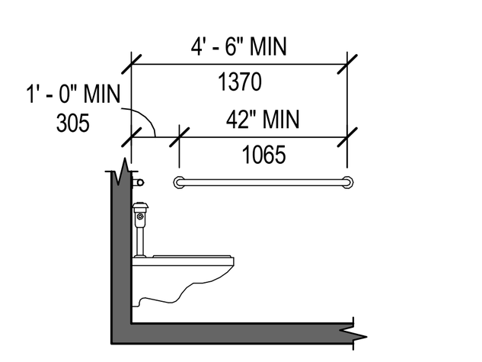

Figure 604.5.1 Side Wall Grab Bar at Water Closets

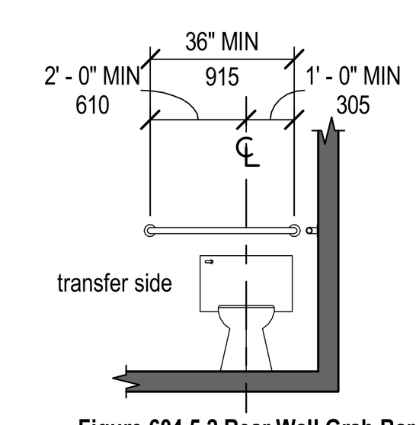

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

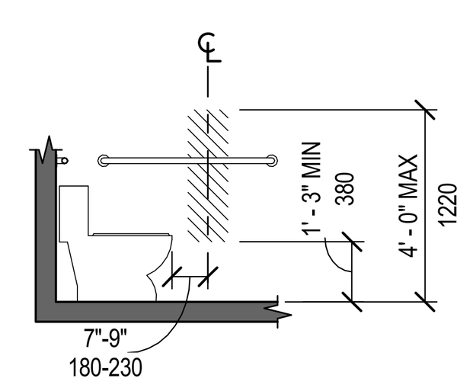

Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

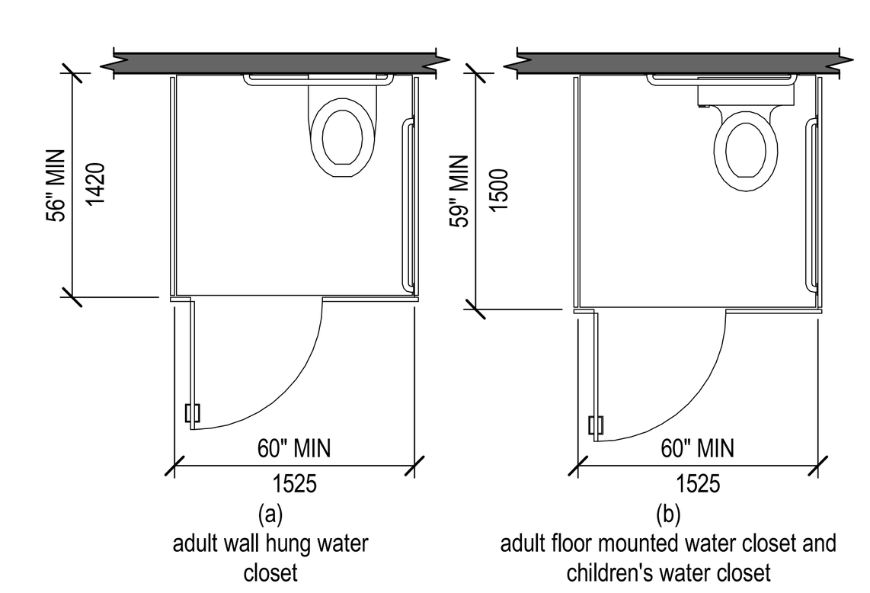

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

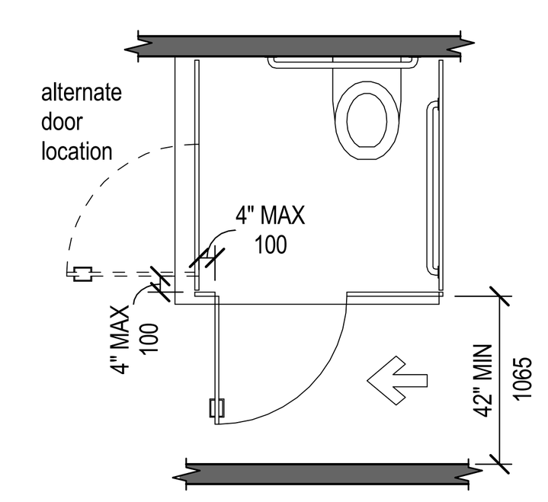

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep

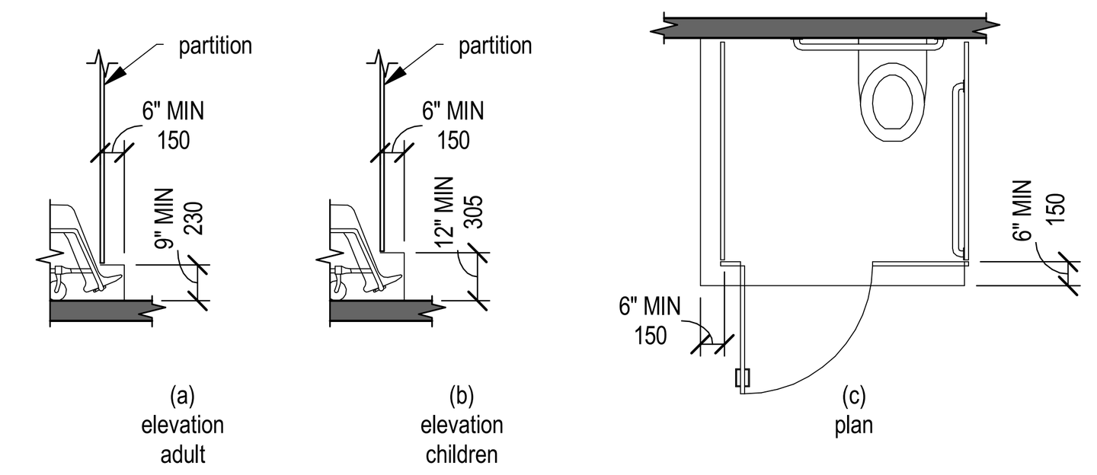

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

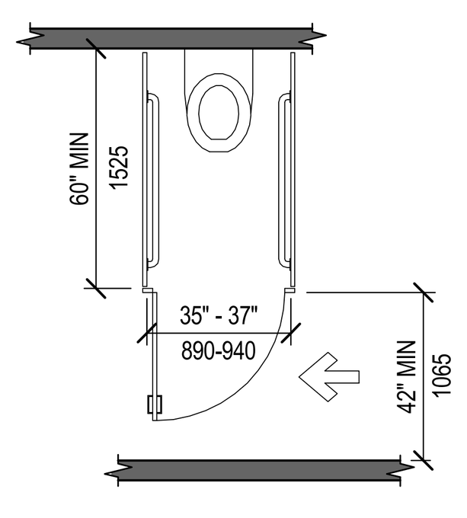

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

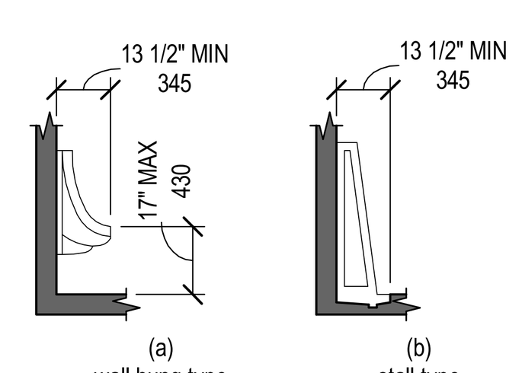

Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607 Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

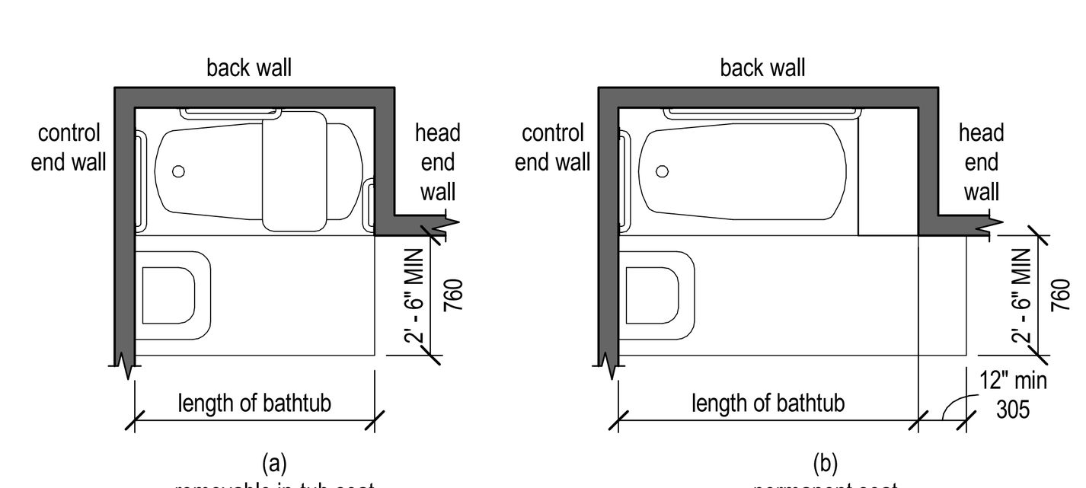

Figure 607.2 Clearance for Bathtubs

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

KEYED NOTES

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

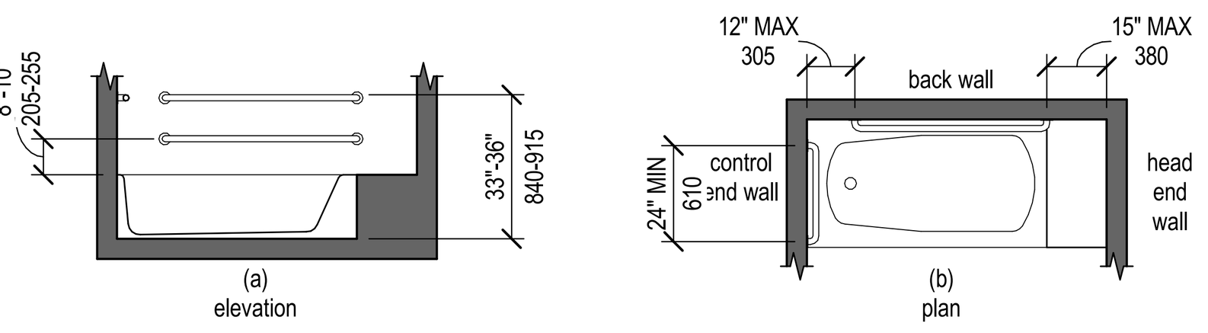

Figure 607.4.1 Grab Bars for Bathtubs with Permanent Seats

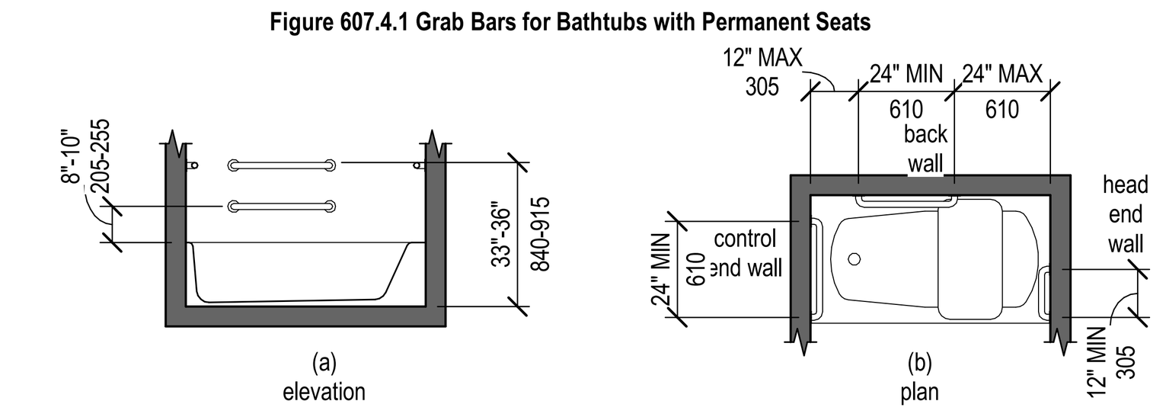

Figure 607.4.2 Grab Bars for Bathtubs with Removable In-Tub Seats

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

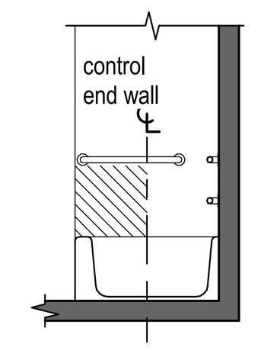

Figure 607.5 Bathtub Control Location

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

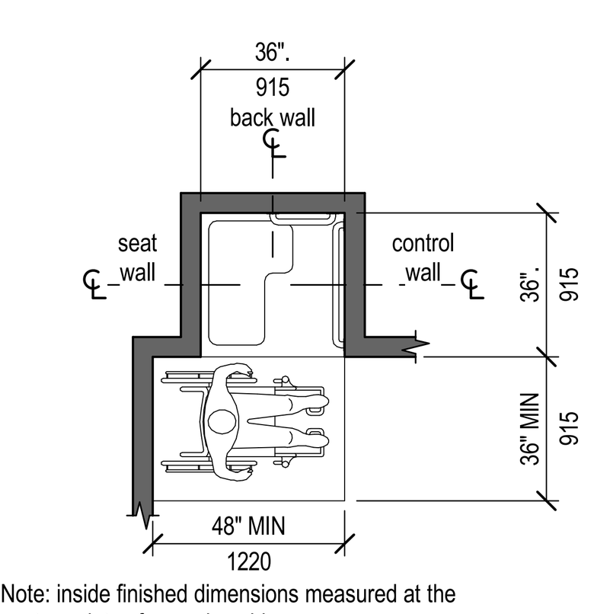

Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

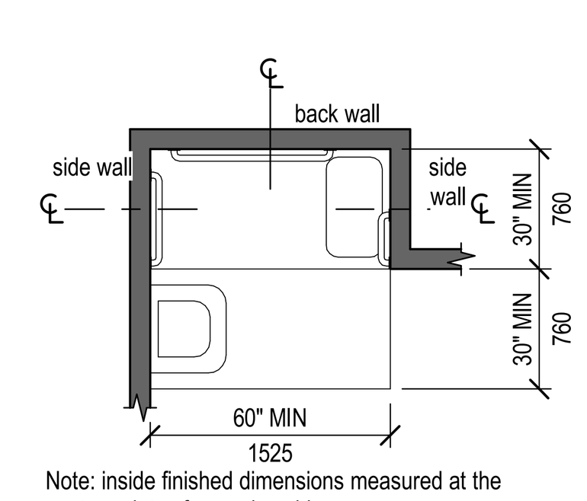

Figure 608.2.2 Standard Roll-In Type Shower Compartment Size and Clearance

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

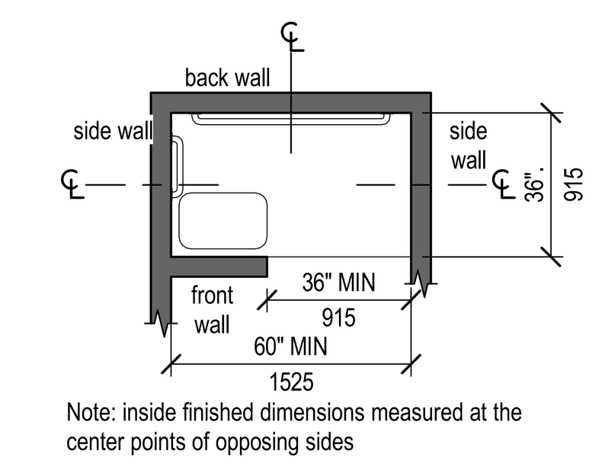

Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

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06-13-2022

MENTAL HEALTH
JAIL DIVERSION CENTER
RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:ELH
ISSUED FOR: 100% CD	DRAFTER: MET
ISSUE DATE: 06.13.2022	CHECKED: ELH

2012 TEXAS ACCESSIBILITY STANDARDS

SHEET
G2-03

608.3.1 **Transfer Type Shower Compartments.** In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

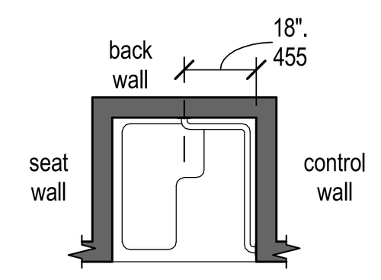

Figure 608.3.1 Grab Bars for Transfer Type Showers

608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

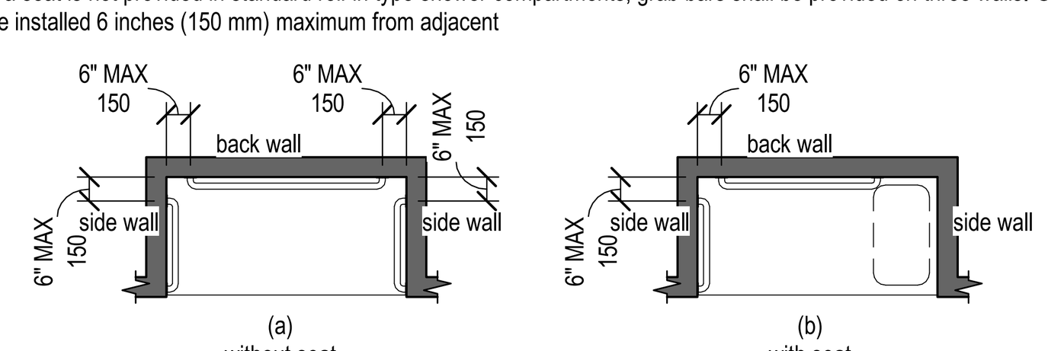

Figure 608.3.2 Grab Bars for Standard Roll-In Type Showers

608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

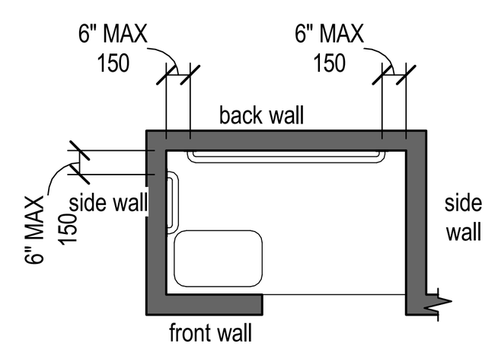

Figure 608.3.3 Grab Bars for Alternate Roll-In Type Showers

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.

608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

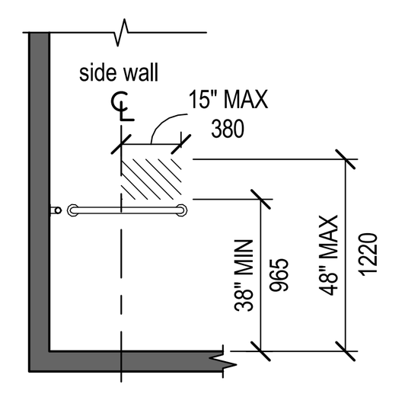

Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

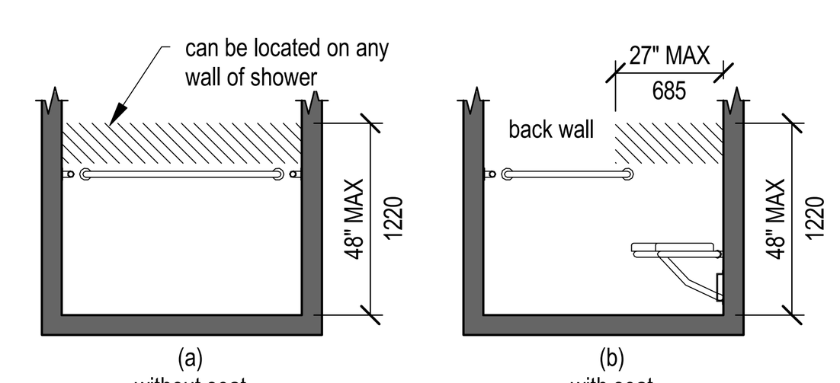

Figure 608.5.2 Standard Roll-In Type Shower Compartment Control Location

608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall adjacent to the seat 27 inches (685 mm) maximum from the side wall behind the seat or shall be located on the back wall opposite the seat 15 inches (380 mm) maximum, left or right, of the centerline of the seat. Where a seat is not provided, the controls, faucets, and shower spray unit shall be installed on the side wall farthest from the compartment entry.

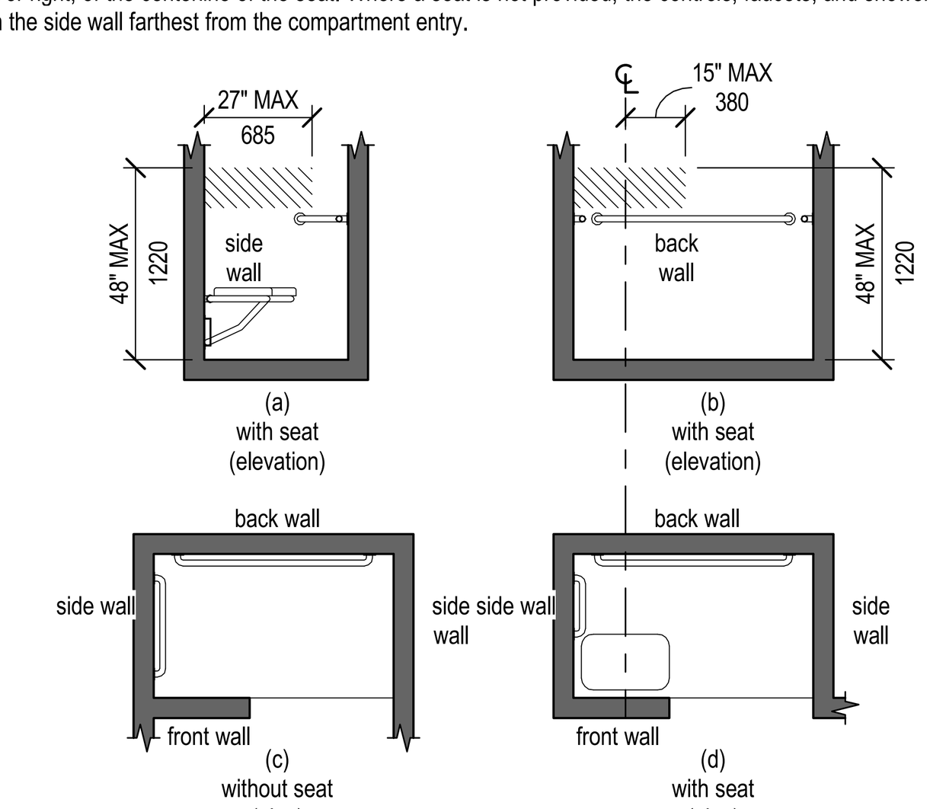

Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

__609 Grab Bars__

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 ¼ inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

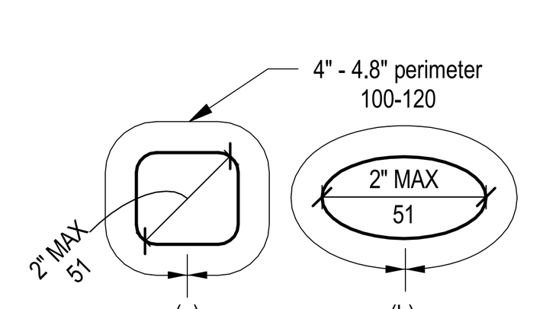

Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

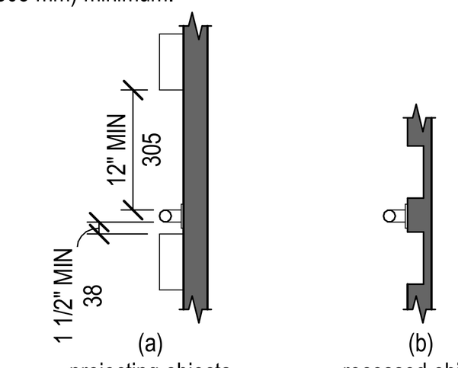

Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

__610 Seats__

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

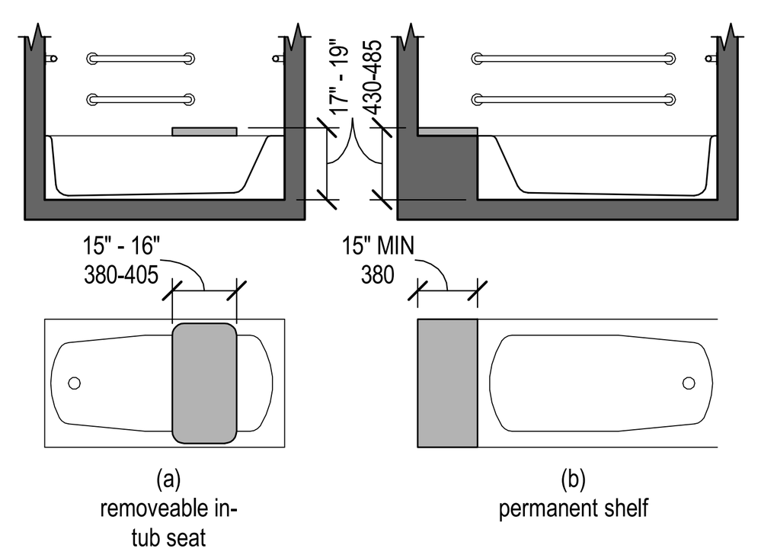

Figure 610.2 Bathtub Seats

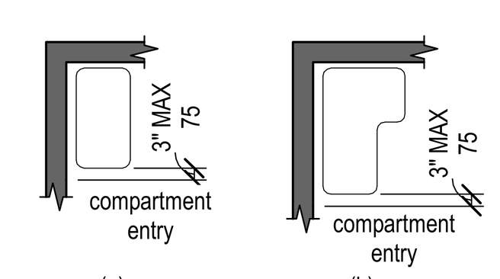

Figure 610.3 Extent of Seat

610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

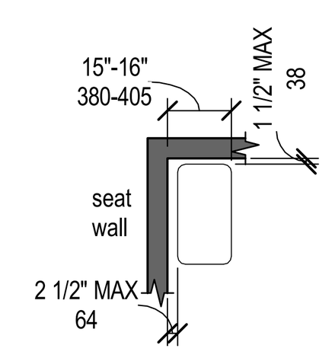

Figure 610.3.1 Rectangular Shower Seat

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

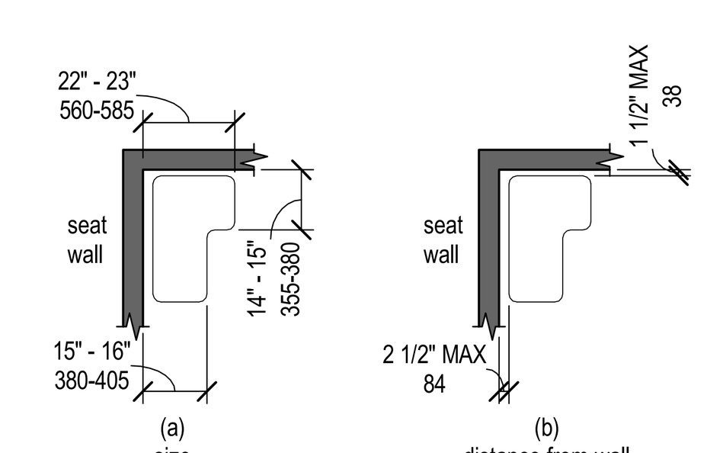

Figure 610.3.2 L-Shaped Shower Seat

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

__611 Washing Machines and Clothes Dryers__

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance.

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

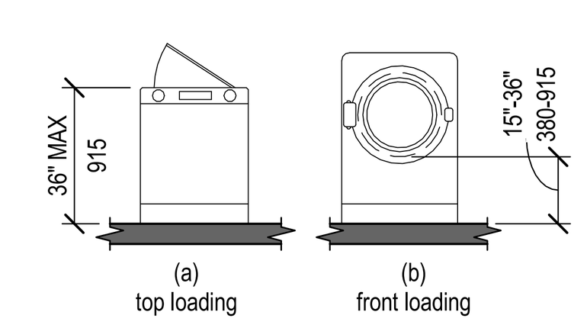

Figure 611.4 Height of Laundry Compartment Opening

__612 Saunas and Steam Rooms__

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 903. Doors shall not swing into the clear floor space required by 903.2.

612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

__702 Fire Alarm Systems__

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

__703 Signs__

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

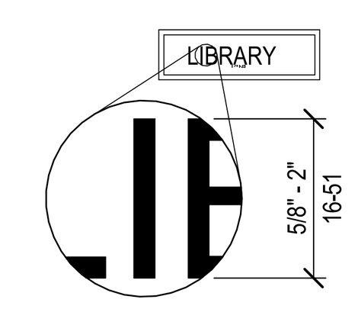

Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

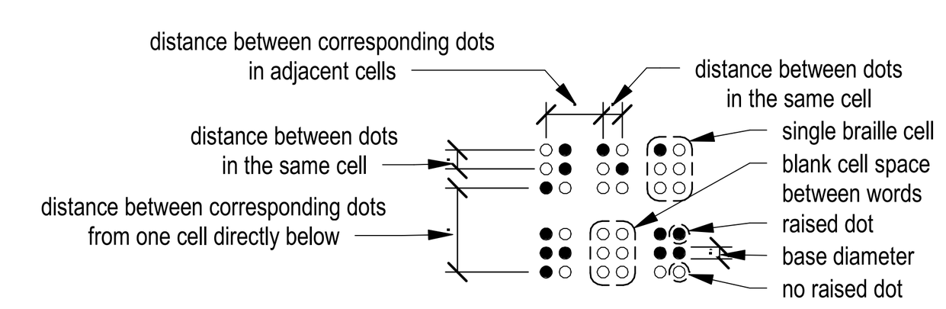

Figure 703.3.1 Braille Measurement

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

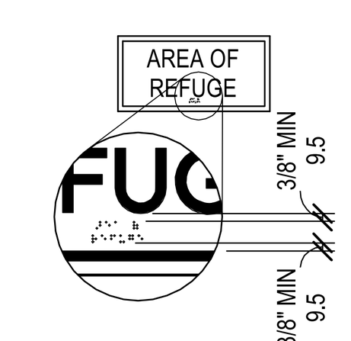

Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

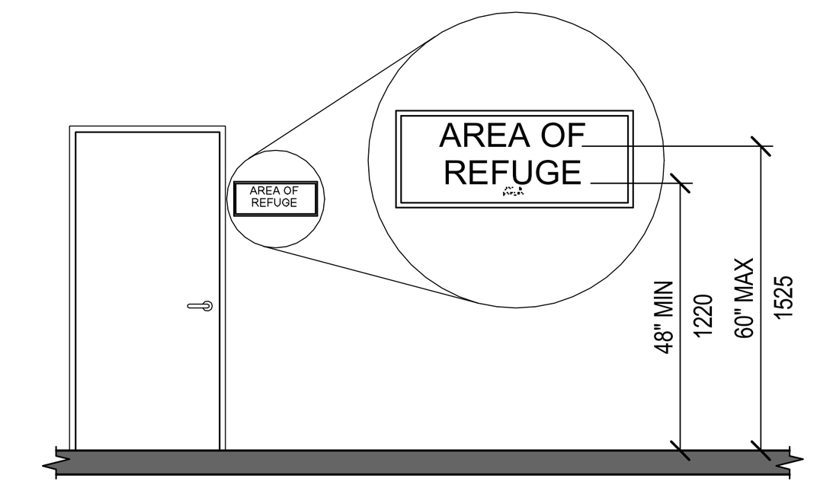

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

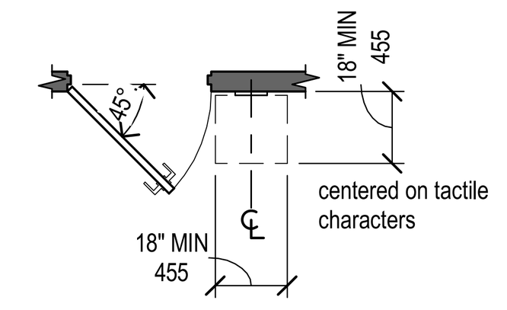

Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

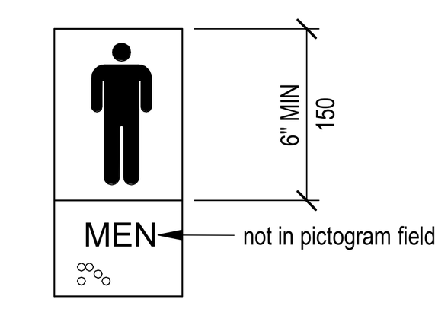

Figure 703.6.1 Pictogram Field dark-on-light

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

__704 Telephones__

704.1 General. Public telephones shall comply with 704.

704.2 Wheelchair Accessible Telephones. Wheelchair accessible telephones shall comply with 704.2.

704.2.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats.

Advisory 704.2.1 Clear Floor or Ground Space. Because clear floor and ground space is required to be unobstructed, telephones, enclosures and related telephone book storage cannot encroach on the required clear floor or ground space and must comply with the provisions for protruding objects. (See Section 307).

704.2.1.1 Parallel Approach. Where a parallel approach is provided, the distance from the edge of the telephone enclosure to the face of the telephone unit shall be 10 inches (255 mm) maximum.

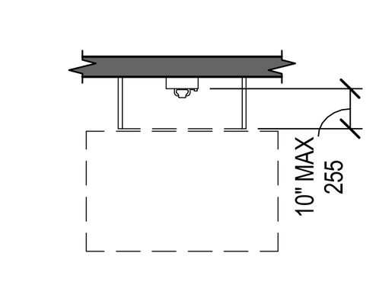

Figure 704.2.1.1 Parallel Approach to Telephone

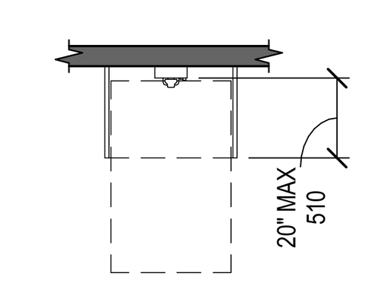

Figure 704.2.1.2 Forward Approach to Telephone

704.2.1.2 Forward Approach. Where a forward approach is provided, the distance from the front edge of a counter within the telephone enclosure to the face of the telephone unit shall be 20 inches (510 mm) maximum.

704.2.2 Operable Parts. Operable parts shall comply with 309. Telephones shall have push-button controls where such service is available.

704.2.3 Telephone Directories. Telephone directories, where provided, shall be located in accordance with 309.

704.2.4 Cord Length. The cord from the telephone to the handset shall be 29 inches (735 mm) long minimum.

704.3 Volume Control Telephones. Public telephones required to have volume controls shall be equipped with a receive volume control that provides a gain adjustable up to 20 dB minimum. For incremental volume control, provide at least one intermediate step of 12 dB of gain minimum. An automatic reset shall be provided.

704.4 TTYs. TTYs required at a public pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. Where an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the TTY and the telephone receiver.

704.4.1 Height. When in use, the touch surface of TTY keypads shall be 34 inches (865 mm) minimum above the finish floor.

704.5 TTY Shelf. Public pay telephones required to accommodate portable TTYs shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a TTY and shall have 6 inches (150 mm) minimum vertical clearance above the area where the TTY is to be placed.

__705 Detectable Warnings__

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

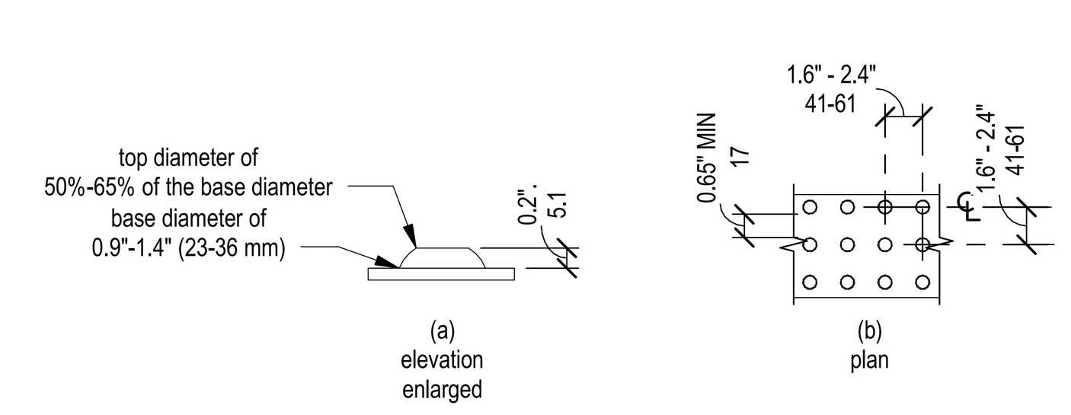

Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

__706 Assistive Listening Systems__

706.2 Receiver Jacks. Receivers required for use with an assistive listening system shall include a 1/8 inch (3.2 mm) standard mono jack.

706.3 Receiver Hearing-Aid Compatibility. Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of neckloops.

706.4 Sound Pressure Level. Assistive listening systems shall be capable of providing a sound pressure level of 110 dB minimum and 118 dB maximum with a dynamic range on the volume control of 50 dB.

706.5 Signal-to-Noise Ratio. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum.

706.6 Peak Clipping Level. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech.

__707 Automatic Teller Machines and Fare Machines__

707.2 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided.

707.3 Operable Parts. Operable parts shall comply with 309. Unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation.

EXCEPTION: Drive-up only automatic teller machines and fare machines shall not be required to comply with 309.2 and 309.3.

707.4 Privacy. Automatic teller machines shall provide the opportunity for the same degree of privacy of input and output available to all individuals.

707.5 Speech Output. Machines shall be speech enabled. Operating instructions and orientation, visible transaction prompts, user input verification, error messages, and all displayed information for full use shall be accessible to and independently usable by individuals with vision impairments. Speech shall be delivered through a mechanism that is readily available to all users, including but not limited to, an industry standard connector or a telephone handset. Speech shall be recorded or digitized human, or synthesized.

707.5.1 User Control. Speech shall be capable of being repeated or interrupted. Volume control shall be provided for the speech function.

707.5.2 Receipts. Where receipts are provided, speech output devices shall provide audible balance inquiry information, error messages, and all other information on the printed receipt necessary to complete or verify the transaction.

707.6 Input. Input devices shall comply with 707.6.

707.6.1 Input Controls. At least one tactilely discernible input control shall be provided for each function. Where provided, key surfaces not on active areas of display screens, shall be raised above surrounding surfaces. Where membrane keys are the only method of input, each shall be tactilely discernable from surrounding surfaces and adjacent keys.

707.6.2 Numeric Keys. Numeric keys shall be arranged in a 12-key ascending or descending telephone keypad layout. The number five key shall be tactilely distinct from the other keys.

KEYED NOTES

707.6.3.1 Contrast. Function keys shall contrast visually from background surfaces. Characters and symbols on key surfaces shall contrast visually from key surfaces. Visual contrast shall be either light-on-dark or dark-on-light.

707.6.3.2 Tactile Symbols. Function key surfaces shall have tactile symbols as follows: Enter or Proceed key: raised circle; Clear or Correct key: raised left arrow; Cancel key: raised letter ex; Add Value key: raised plus sign; Decrease Value key: raised minus sign.

707.7 Display Screen. The display screen shall comply with 707.7.

707.7.1 Visibility. The display screen shall be visible from a point located 40 inches (1015 mm) above the center of the clear floor space in front of the machine.

707.7.2 Characters. Characters displayed on the screen shall be in a sans serif font. Characters shall be 3/16 inch (4.8 mm) high minimum based on the uppercase letter "I". Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

707.8 Braille Instructions. Braille instructions for initiating the speech mode shall be provided. Braille shall comply with 703.3.

__708 Two-Way Communication Systems__

708.1 General. Two-way communication systems shall comply with 708.

708.2 Audible and Visual Indicators. The system shall provide both audible and visual signals.

708.3 Handsets. Handset cords, if provided, shall be 29 inches (735 mm) long minimum.

708.4 Residential Dwelling Unit Communication Systems. Communications systems between a residential dwelling unit and a site, building, or floor entrance shall comply with 708.4.

708.4.1 Common Use or Public Use System Interface. The common use or public use system interface shall include the capability of supporting voice and TTY communication with the residential dwelling unit interface.

CHAPTER 9: BUILT-IN ELEMENTS

__902 Dining Surfaces and Work Surfaces__

902.2 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided.

902.3 Height. The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

902.4 Dining Surfaces and Work Surfaces for Children's Use. Accessible dining surfaces and work surfaces for children's use shall comply with 902.4.

902.4.1 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted. 902.4.2 Height. The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (760 mm) maximum above the finish floor or ground.

__903 Benches__

903.2 Clear Floor or Ground Space. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

903.3 Size. Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) deep maximum.

903.4 Back Support. The bench shall provide for back support or shall be affixed to a wall. Back support shall be 42 inches (1065 mm) long minimum and shall extend from a point 2 inches (51 mm) maximum above the seat surface to a point 18 inches (455 mm) minimum above the seat surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally.

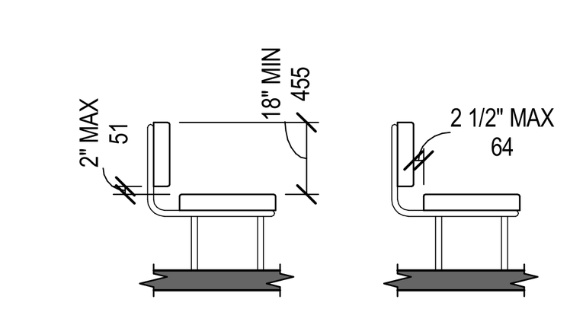

Figure 903.4 Bench Back Support

903.5 Height. The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground.

903.6 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

903.7 Wet Locations. Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

__904 Check-Out Aisles and Sales and Service Counters__

904.1 General. Check-out aisles and sales and service counters shall comply with the applicable requirements of 904.

904.2 Approach. All portions of counters required to comply with 904 shall be located adjacent to a walking surface complying with 403.

904.3 Check-Out Aisles. Check-out aisles shall comply with 904.3.

904.3.1 Aisle. Aisles shall comply with 403.

904.3.2 Counter. The counter surface height shall be 38 inches (965 mm) maximum above the finish floor or ground. The top of the counter edge protection shall be 2 inches (51 mm) maximum above the top of the counter surface on the aisle side of the check-out counter.

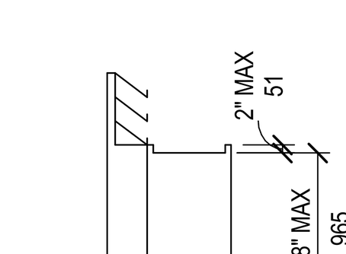

Figure 904.3.2 Check-Out Aisle Counters

904.3.3 Check Writing Surfaces. Where provided, check writing surfaces shall comply with 902.3.

904.4 Sales and Service Counters. Sales counters and service counters shall comply with 904.4.1 or 904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.

904.4.1 Parallel Approach. A portion of the counter surface that is 36 inches (915 mm) long minimum and 36 inches (915 mm) high maximum above the finish floor shall be provided. A clear floor or ground space complying with 305 shall be positioned for a parallel approach adjacent to the 36 inch (915 mm) minimum length of counter.

904.4.2 Forward Approach. A portion of the counter surface that is 30 inches (760 mm) long minimum and 36 inches (915 mm) high maximum shall be provided. Knee and toe space complying with 306 shall be provided under the counter. A clear floor or ground space complying with 305 shall be positioned for a forward approach to the counter.

904.5 Food Service Lines. Counters in food service lines shall comply with 904.5.

904.5.1 Self-Service Shelves and Dispensing Devices. Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with 308.

904.5.2 Tray Slides. The tops of tray slides shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

904.6 Security Glazing. Where counters or teller windows have security glazing to separate personnel from the public, a method to facilitate voice communication shall be provided. Telephone handset devices, if provided, shall comply with 704.3.

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06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: ELH
ISSUED FOR: 100% CD	DRAFTER: MET
ISSUE DATE: 06.13.2022	CHECKED: ELH

2012 TEXAS ACCESSIBILITY STANDARDS

SHEET

G2-04

Site Plan General Notes:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR MUST BE FAMILIAR WITH OWNER & CITY CONSTRUCTION STANDARDS AND OTHER PROCEDURES PRIOR TO BIDDING AND CONSTRUCTION. IGNORANCE OF CONSTRUCTION SPECIFICATIONS SHALL NOT BE A BASIS FOR CHANGE ORDERS, WORK DELAYS, OR ADDITIONAL COMPENSATION.
3. ALL MATERIAL REQUIRED TO COMPLETE THE WORK AS SHOWN OR IMPLIED IN THE CONSTRUCTION PLANS AND AS SPECIFIED IN THE CONTRACT DOCUMENTS THAT ARE NOT LISTED AS A PAY ITEM IN THE PROPOSAL SHALL BE CONSIDERED SUBSIDIARY.
4. THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM FIELD MARKINGS, PHYSICAL APPURTENANCES AND UTILITY COMPANY RECORDS AND ARE CONSIDERED APPROXIMATE. THE ENGINEER DOES NOT CERTIFY THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES AND DEPTHS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION BY CONTACTING TEXAS EXCAVATION SAFETY SYSTEM (800-DIG-TESS) AND RELEVANT UTILITY COMPANIES 48 HOURS PRIOR TO LOCATING EXISTING UTILITIES OR CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL PROTECT ALL ADJACENT ON & OFF-SITE PAVING, UTILITIES, TREES AND OTHER EXISTING STRUCTURES FROM DAMAGE PRIOR TO & DURING CONSTRUCTION. ANY DAMAGE THAT OCCURS FROM CONSTRUCTION OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, EMISSIONS, TRENCHING, SHORING, AND SITE SAFETY.
7. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE TO THE ENGINEER PRIOR TO BEGINNING WORK.
8. THE CONTRACTOR SHALL PROTECT ALL PAVEMENT INCLUDING SIDEWALKS THAT ARE OUTSIDE THE LIMITS OF DISTURBANCE FROM DAMAGE ESPECIALLY AT CONSTRUCTION ENTRANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED PAVEMENT.
9. THE CONTRACTOR MAY REMOVE ALL FENCING WITHIN THE LIMITS OF DISTURBANCE THAT INTERFERE WITH CONSTRUCTION OPERATIONS, EXCEPT IN AREAS WHERE LIVESTOCK IS PRESENT.
10. POSITIVE DRAINAGE MUST BE MAINTAINED FOR ALL DRAINAGE SWALES, CULVERTS AND CREEKS INCLUDING INTERMITTENT STREAMS AFFECTED BY CONSTRUCTION OPERATIONS. ANY WORK NECESSARY TO DAM OR DIVERT EXISTING DRAINAGE WAYS TO COMMENCE CONSTRUCTION SHALL BE CONSIDERED SUBSIDIARY.
11. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED TO INCLUDE BUT NOT BE LIMITED TO ROCK, RUBBLE, DEBRIS, TRASH, ETC. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE. SPOILS MAY BE DISPOSED OF ON-SITE ONLY WITH PRIOR APPROVAL FROM THE ENGINEER AND ONLY IN LOCATIONS APPROVED BY THE ENGINEER.
12. AT SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIAL, FORM-WORK, TRASH, EQUIPMENT, OR ANY OTHER SUPERFLUOUS OR WASTE MATERIAL FROM THE SITE, INCLUDING EROSION CONTROL DEVICES (SEE EROSION CONTROL AND SOIL MANAGEMENT NOTES).
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK INVOLVING FRANCHISE UTILITIES WITH UTILITY OWNERS.
14. IF A TRAFFIC CONTROL PLAN HAS NOT BEEN PROVIDED BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL INCLUDING THE USE OF ALL TRAFFIC CONTROL DEVICES USED TO WARN MOTORISTS OF THE CONSTRUCTION ACTIVITY. ALL TRAFFIC CONTROL MUST CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS FOR THE OWNER/CITY'S USE. THE CONTRACTOR SHALL PROVIDE THE CITY & OWNER CLEAN AND ACCURATE FULL SIZE REPRODUCIBLE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ALL CONSTRUCTION AND ANY DEVIATIONS FROM THE PLANS PER 01 77 00 CLOSE-OUT DOCUMENTS.
17. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS THAT ARE APPROVED BY THE CITY AND ENGINEER.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING, QUALITY CONTROL, AND MATERIALS TESTING.
19. ALL EFFORTS SHALL BE MADE TO AVOID DAMAGE TO EXISTING TREES THAT ARE TO REMAIN. TREES SHALL BE TRIMMED AND PAINTED ONLY IF NECESSARY FOR THE SAFE MANEUVERING OF CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL REQUEST APPROVAL FROM THE OWNER FOR REMOVAL OF ANY TREES. WHEN EXCAVATING AROUND A TREE, THE ROOTS SHALL BE CLEAN CUT PRIOR TO ANY EXCAVATION WORK. DO NOT SNAG AND TEAR TREE ROOTS.
20. THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED TO BE SUBMITTED BY THE CONTRACT SPECIFICATIONS. ANY WORK PERFORMED OR MATERIALS USED THAT ARE REQUIRED TO BE SUBMITTED BUT HAVE NOT BEEN REVIEWED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE SHALL NOT BE PAID FOR OR SHALL BE PAID FOR AT A REDUCED RATE. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE PROOFREAD AND REVIEWED BY THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO SUBMITTAL TO THE ENGINEER. SUBCONTRACTOR / GENERAL CONTRACTOR SHALL CLEARLY INDICATE, MARK, HIGHLIGHT, AND PROPERLY CLARIFY PRODUCTS TO BE CONSIDERED FOR APPROVAL. SUBMITTALS NOT PROOFREAD OR REVIEWED OR CLARIFIED PROPERLY SHALL BE RETURNED UNREVIEWED. CONTRACTOR SHALL RESUBMIT SHOP DRAWINGS AND ALLOW FOR SUITABLE REVIEW TIME.

Dimension Control Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES, BENCHMARKS, MONUMENTS, ETC. WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY BRITTAIN & CRAWFORD DATED SEPTEMBER 2021.
2. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL SIGNS, BARRICADES, AND LIGHTING OR WARNING DEVICE(S) USED/REQUIRED WITH THIS WORK.
4. ALL UNLABELED CURB RADII SHALL BE 2.0 FEET TYPICAL.
5. ALL DIMENSIONS ARE FROM EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
6. ALL BUILDING DIMENSIONS ARE TO FACE OF BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSION INFORMATION.
7. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS AND DIMENSIONS OF LANDSCAPE HARDSCAPE AREAS.

Site Demolition Plan Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY BRITTAIN & CRAWFORD DATED SEPTEMBER 2021.
2. NO DEMOLITION ACTIVITIES SHALL COMMENCE UNTIL ALL PERMITS ARE OBTAINED AND PERIMETER EROSION CONTROL MEASURES ARE IN PLACE.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION.
5. EXISTING SANITARY SEWER AND WATER UTILITY LINES ARE TO REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR TO MAKE PROVISIONS TO KEEP THESE UTILITIES IN SERVICE. ALL PROPOSED SHUT DOWNS OF UTILITIES MUST BE COORDINATED WITH THE OWNER.
6. ALL TRAFFIC CONTROL MEASURES, BARRICADES AND PROJECT SIGNS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE LOCAL GOVERNING AGENCY REQUIREMENTS.
7. PROVIDE EROSION AND SEDIMENTATION CONTROLS AS SHOWN ON THE DRAWINGS AND MAINTAIN FOR THE DURATION OF THE PROJECT. PROVIDE ROUTINE MAINTENANCE AS REQUIRED BY THE SWPPP PLAN TO MAINTAIN THE INTEGRITY OF CONTROLS AND PROTECTION MEASURES AND REMOVE ANY ACCUMULATIONS OF MUD, SILT AND DEBRIS, WHICH WOULD JEOPARDIZE THE INTEGRITY OF THE CONTROL MEASURES. REFER TO DRAWINGS FOR DETAILS
8. CONTRACTOR SHALL EXERCISE CARE DURING OPERATIONS TO CONFINE DUST TO THE IMMEDIATE WORK AREA AND SHALL EMPLOY DUST CONTROL MEASURES TO ENSURE ADEQUATE DUST CONTROL THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS.
9. EXPOSED SUBGRADE BENEATH PAVED AREAS SHALL BE PROOF ROLLED TO DETECT WEAK SOIL SUPPORT AREAS. THESE AREAS WILL BE REMOVED AND REPLACED WITH SITE EXCAVATED MATERIALS OR IMPORTED MATERIALS HAVING THE SAME PROPERTIES AS SITE MATERIALS.
10. THE CONTRACTOR SHALL NOT DAMAGE ANY FENCES, DRIVES, PAVEMENT, UTILITIES OR OTHER EXISTING FACILITIES INTENDED TO REMAIN. DAMAGE TO ADJOINING PROPERTY OUTSIDE THE LIMITS OF DISTURBANCE OR OTHER ITEMS INTENDED TO REMAIN SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING AGENCIES REGARDING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY ON-SITE TRASH, DEBRIS, OR DEMOLITION MATERIALS. DISPOSAL OF ALL DEMOLITION MATERIALS OR PRE-EXISTING ON-SITE TRASH AND DEBRIS SHALL NOT BE ITEMIZED AND PAID FOR AS SEPARATE ITEMS BUT SHALL BE SUBSIDIARY TO THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, BENCHMARKS, CONTROL POINTS, ETC, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
15. THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, CONDUIT, AND CABLES, REGARDLESS OF DEPTH, IN THE AREA OF THE PROPOSED BUILDING(S) FOUNDATIONS. (UNLESS NOTED OTHERWISE)
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT THE PROPERTY LINE; OR AT THE UTILITY MAIN AS REQUIRED BY THE UTILITY OWNER.
17. REFER TO LANDSCAPE DRAWINGS FOR TREE DEMOLITION AND PROTECTION.
18. REFER TO DEMOLITION ITEMS WITHIN OTHER DISCIPLINES' DOCUMENTS FOR COORDINATION NOTES.

Paving Plan Notes:

1. UNLESS OTHERWISE NOTED, REFER TO SPECIFICATION DETAILS FOR SUBGRADE COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
3. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE TO THE ARCHITECT'S LANDSCAPE PLANS AND/OR MEP PLANS. NEW IRRIGATION SLEEVES SHOWN HEREON ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. (REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS.)
4. SIDEWALKS SHALL HAVE A RUNNING SLOPE NOT GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.
5. SAWED JOINTS SHALL BE SPACED AT INTERVALS OF 15 FEET MAXIMUM AND AT ALL RADIUS RETURNS. SAWED JOINTS SHALL BE PERPENDICULAR TO ALL CURVES. JOINTS SHALL BE SAWED WITHIN 12 HOURS AFTER CONCRETE IS POURED. SIDEWALK JOINTS SHALL BE TOOLED JOINTS.
6. SAWED JOINTS SHALL MATCH THE EXISTING PAVEMENT JOINT PATTERN WHERE NEW PAVEMENT IS CONSTRUCTED ADJACENT TO EXISTING CONCRETE PAVEMENT.
7. ALL MANHOLES, INLETS, LIGHT BASES, AND OTHER STRUCTURES SHALL BE ISOLATED FROM THE NEW PAVEMENT WITH PREFORMED ASPHALTIC EXPANSION MATERIAL.
8. ADJUST EXISTING TOP OF MANHOLE RIMS AND EXISTING WATERLINE VALVE BOXES TO FINISHED GRADE ELEVATIONS.
9. FOR PAVING PATTERNS, FINISHES AND MATERIALS REFER TO ARCHITECTURAL OR LANDSCAPE DRAWINGS.
10. NEW IRRIGATION SLEEVES SHOWN HEREON ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS.
11. CARE SHALL BE TAKEN NOT TO PLACE CONCRETE DURING INCLEMENT WEATHER. CONCRETE AGGREGATE THAT HAS BEEN EXPOSED DUE TO RAINFALL BEFORE THE CONCRETE HAS SET-UP SHALL NOT BE ACCEPTED AND MUST BE REPLACED.

Drainage Plan Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY BRITTAIN & CRAWFORD DATED SEPTEMBER 2021.
2. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS AND THE BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND ITEMS. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED, EXCEPT INSOFAR AS THEY CAN BE VERIFIED BY THE FIELD MEASUREMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO UNCOVER AND VERIFY THE ACTUAL DEPTH AND CONDITION OF ALL AFFECTED UNDERGROUND UTILITIES WITHIN THE AREA OF CONSTRUCTION PRIOR TO BEGINNING THE ACTUAL WORK.
3. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
4. UNLESS NOTED, STORM DRAIN LINES MAY BE MADE OF THE FOLLOWING MATERIALS:
   A. PIPE SIZE SMALLER THAN 12 INCH SHALL BE PVC
   B. PIPE SIZE 12 INCH OR GREATER SHALL BE RCP.
   C. RCP SHALL BE C-76, CLASS III
5. ALL PIPE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, CATCH BASINS, CURB INLETS AND HEADWALLS SHALL BE PRECAST, SIZED AS SHOWN.

Erosion Control Plan Notes:

1. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING STORM WATER DISCHARGE AND EROSION & SEDIMENT CONTROL.
2. FOR ALL EROSION CONTROL IN THE PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL MAKE REFERENCE TO THE CITY OF FORT WORTH DETAILS AND/OR CONSTRICTION MANUAL FOR ACCEPTABLE CONSTRUCTION CONTROL GUIDELINES AND DETAILS NOT PROVIDED.
3. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE BEGINNING SOILS DISTURBING ACTIVITIES.
4. CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL AREAS ON SITE THAT MAY NEED TO BE DISTURBED FOR LAY DOWN AREA, STAGING, ETC...

Grading Plan Notes:

1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE DISTURBED AREAS OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
2. NO ABRUPT CHANGE OF GRADE SHALL OCCUR IN THE DRIVEWAYS, PARKING AREAS OR SIDEWALKS.
3. UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, TYPE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM THE PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
4. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
5. ALL CONSTRUCTION AREAS WITHIN THE SITE SHALL BE STRIPPED OF VEGETATION AND LOOSE TOPSOIL. ANY POCKETS OF DEBRIS ENCOUNTERED SHOULD ALSO BE REMOVED.
6. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR FILL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING OFFSITE AND ONTO ADJACENT PROPERTY OR CROSSING ADJACENT STREETS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS THAT WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS.
8. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION. THEY MUST BE ADJUSTED TO PROPERTY LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PALCEMENT OF PAVING AND GRADING AT NO ADDITIONAL COST TO THE OWNER.
9. SIDEWALKS SHALL HAVE A RUNNING SLOPE NOT GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY /#

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LICENSED PROFESSIONAL ENGINEER
06-13-22

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: OS
ISSUED FOR: 100% CDs	DRAFTER: ENN
ISSUE DATE: 06/13/22	CHECKED: OS

GENERAL NOTES

SHEET
C0.01

shaping the built environment
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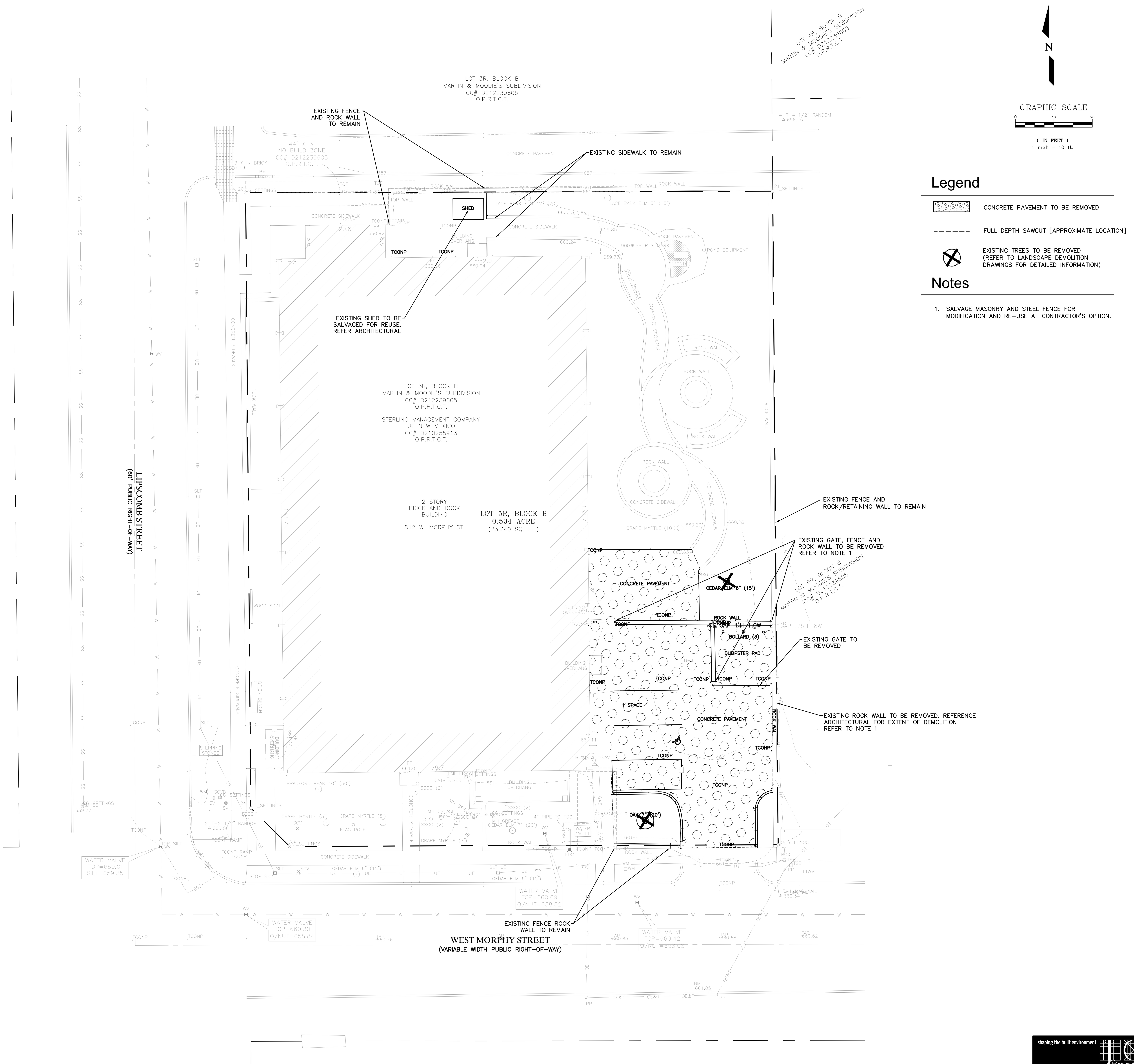

Legend

CONCRETE PAVEMENT TO BE REMOVED

FULL DEPTH SAWCUT [APPROXIMATE LOCATION]

EXISTING TREES TO BE REMOVED (REFER TO LANDSCAPE DEMOLITION DRAWINGS FOR DETAILED INFORMATION)

Notes

1. SALVAGE MASONRY AND STEEL FENCE FOR MODIFICATION AND RE-USE AT CONTRACTOR'S OPTION.

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY

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06-13-22

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F MANAGER: OS
ISSUED FOR: 100% CDs DRAFTER: ENN
ISSUE DATE: 06/13/22 CHECKED: OS

EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET
C1.00

shaping the built environment
JQ INFRASTRUCTURE, LLC

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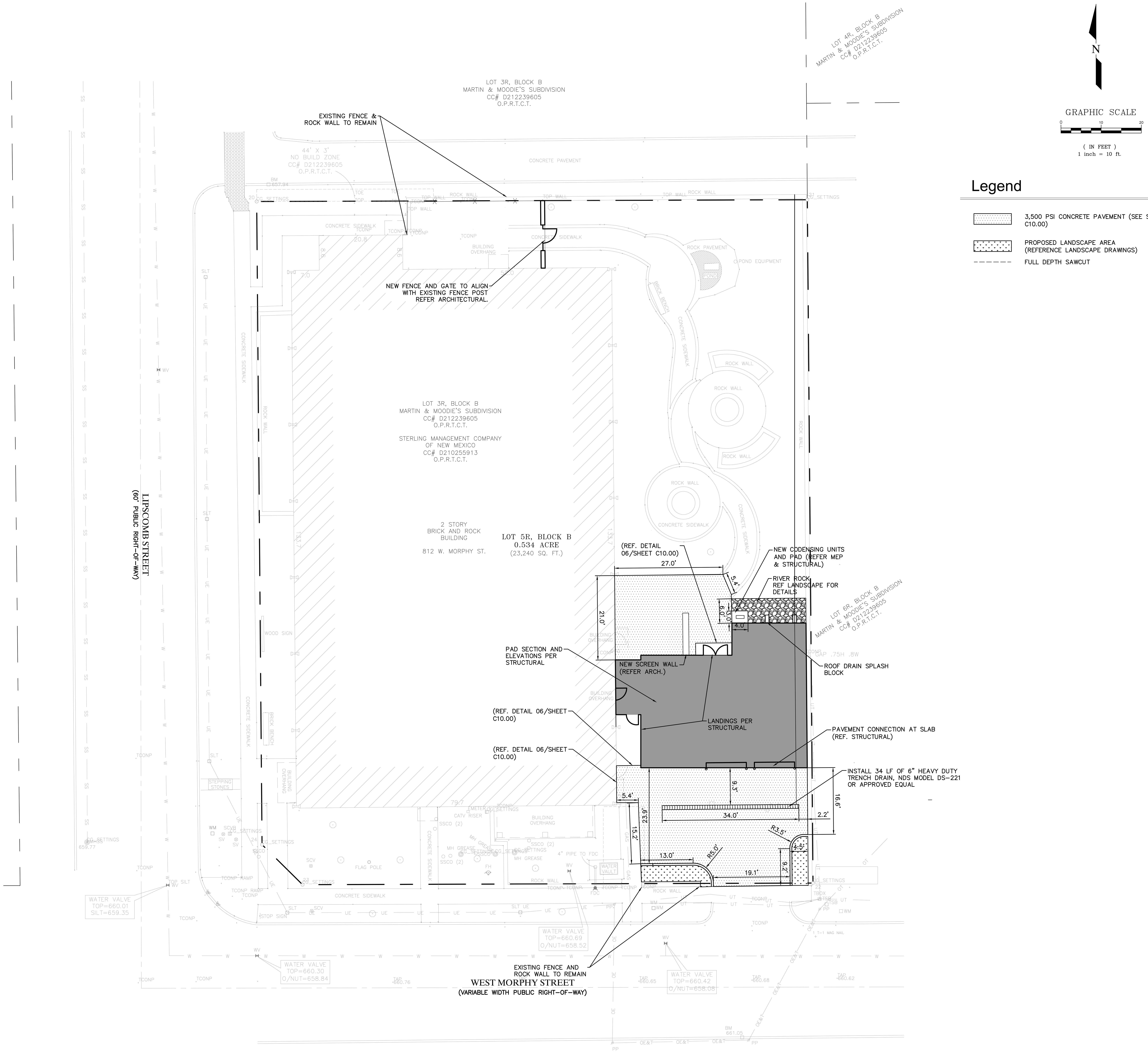

Legend

(hatched)	3,500 PSI CONCRETE PAVEMENT (SEE SHEET C10.00)
(dotted)	PROPOSED LANDSCAPE AREA (REFERENCE LANDSCAPE DRAWINGS)
- - - - - -	FULL DEPTH SAWCUT

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY

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817.302.0692 fax

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JQ ENGINEERING
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CCA LANDSCAPE ARCHITECTS
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STATE OF TEXAS
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111707
LICENSED PROFESSIONAL ENGINEER
06-13-22

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

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FORT WORTH, TEXAS 76104

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ISSUE DATE: 06/13/22	CHECKED: OS

PAVING PLAN

SHEET

C2.00

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220013
TBPE FIRM 7086

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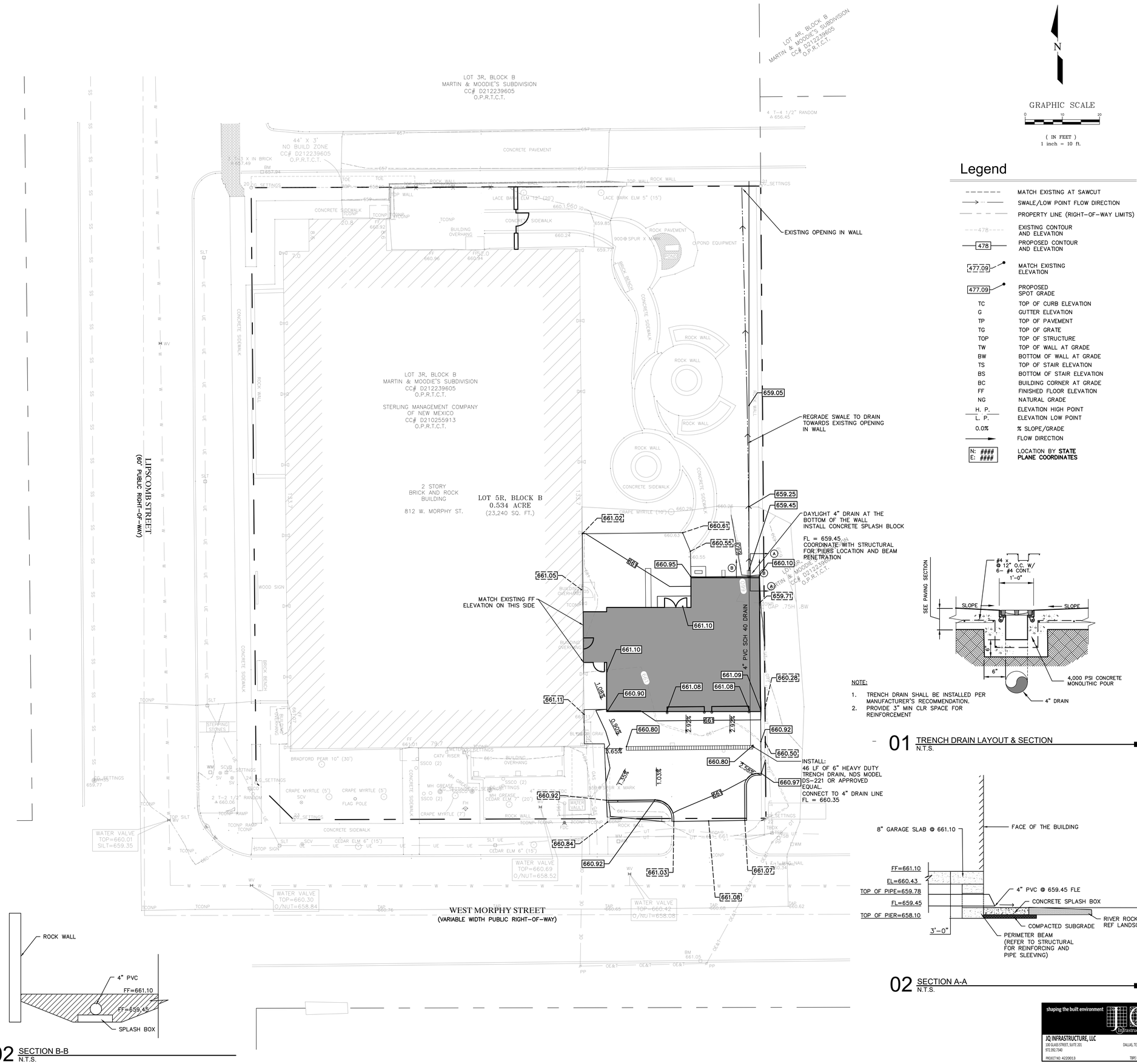

02 SECTION B-B
N.T.S.

NOTE:

1. TRENCH DRAIN SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE 3" MIN CLR SPACE FOR REINFORCEMENT

01 TRENCH DRAIN LAYOUT & SECTION
N.T.S.

02 SECTION A-A
N.T.S.

N

GRAPHIC SCALE
0 10 20
(IN FEET)
1 inch = 10 ft.

Legend

- - - - - -	MATCH EXISTING AT SAWCUT
——→·——	SWALE/LOW POINT FLOW DIRECTION
— — — —	PROPERTY LINE (RIGHT-OF-WAY LIMITS)
---478---	EXISTING CONTOUR AND ELEVATION
478	PROPOSED CONTOUR AND ELEVATION
477.09	MATCH EXISTING ELEVATION
477.09	PROPOSED SPOT GRADE
TC	TOP OF CURB ELEVATION
G	GUTTER ELEVATION
TP	TOP OF PAVEMENT
TG	TOP OF GRATE
TOP	TOP OF STRUCTURE
TW	TOP OF WALL AT GRADE
BW	BOTTOM OF WALL AT GRADE
TS	TOP OF STAIR ELEVATION
BS	BOTTOM OF STAIR ELEVATION
BC	BUILDING CORNER AT GRADE
FF	FINISHED FLOOR ELEVATION
NG	NATURAL GRADE
H. P.	ELEVATION HIGH POINT
L. P.	ELEVATION LOW POINT
0.0%	% SLOPE/GRADE
——→	FLOW DIRECTION
N: #### E: ####	LOCATION BY **STATE PLANE COORDINATES**

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY #

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FORT WORTH, TEXAS 76104

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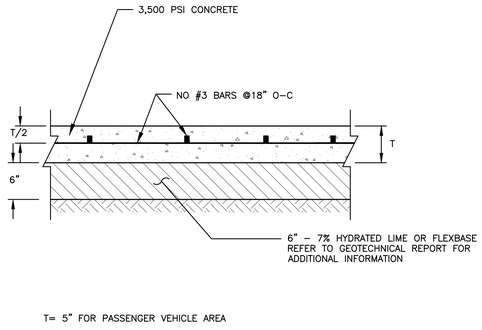
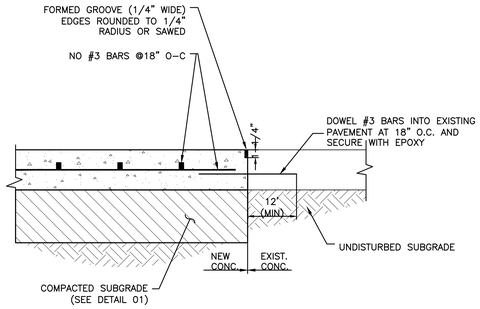
GRADING PLAN

SHEET
C3.00

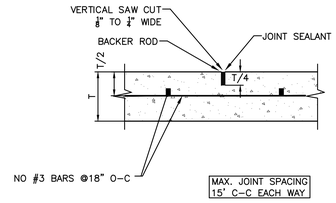


T= 5" FOR PASSENGER VEHICLE AREA

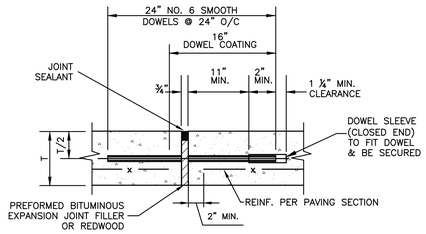
01 CONCRETE PAVEMENT SECTION
N.T.S.



02 CONCRETE PAVEMENT CONNECTION
N.T.S.

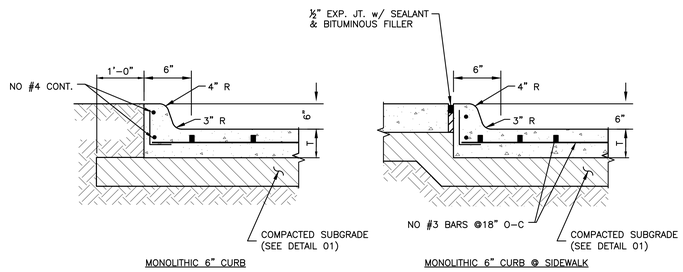


03 SAWED DUMMY (CONTROL) JOINT
N.T.S.

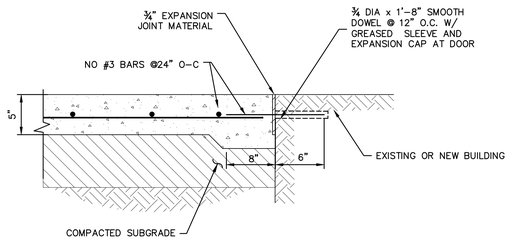


NOTE:
DOWELS AND REINFORCING BARS SHALL
BE SUPPORTED BY AN APPROVED DEVICE.

04 EXPANSION JOINT DETAIL
N.T.S.



05 TYPICAL INTEGRAL CURB & GUTTER
N.T.S.



06 PAVEMENT CONNECTION AT SLAB
N.T.S.

KEYED NOTES

GENERAL NOTES

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06-13-22

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: OS
ISSUED FOR: 100% CDs	DRAFTER: ENN
ISSUE DATE: 06/13/22	CHECKED: OS

CIVIL DETAILS

SHEET
C10.00

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 42200113 TBPE FIRM 7986

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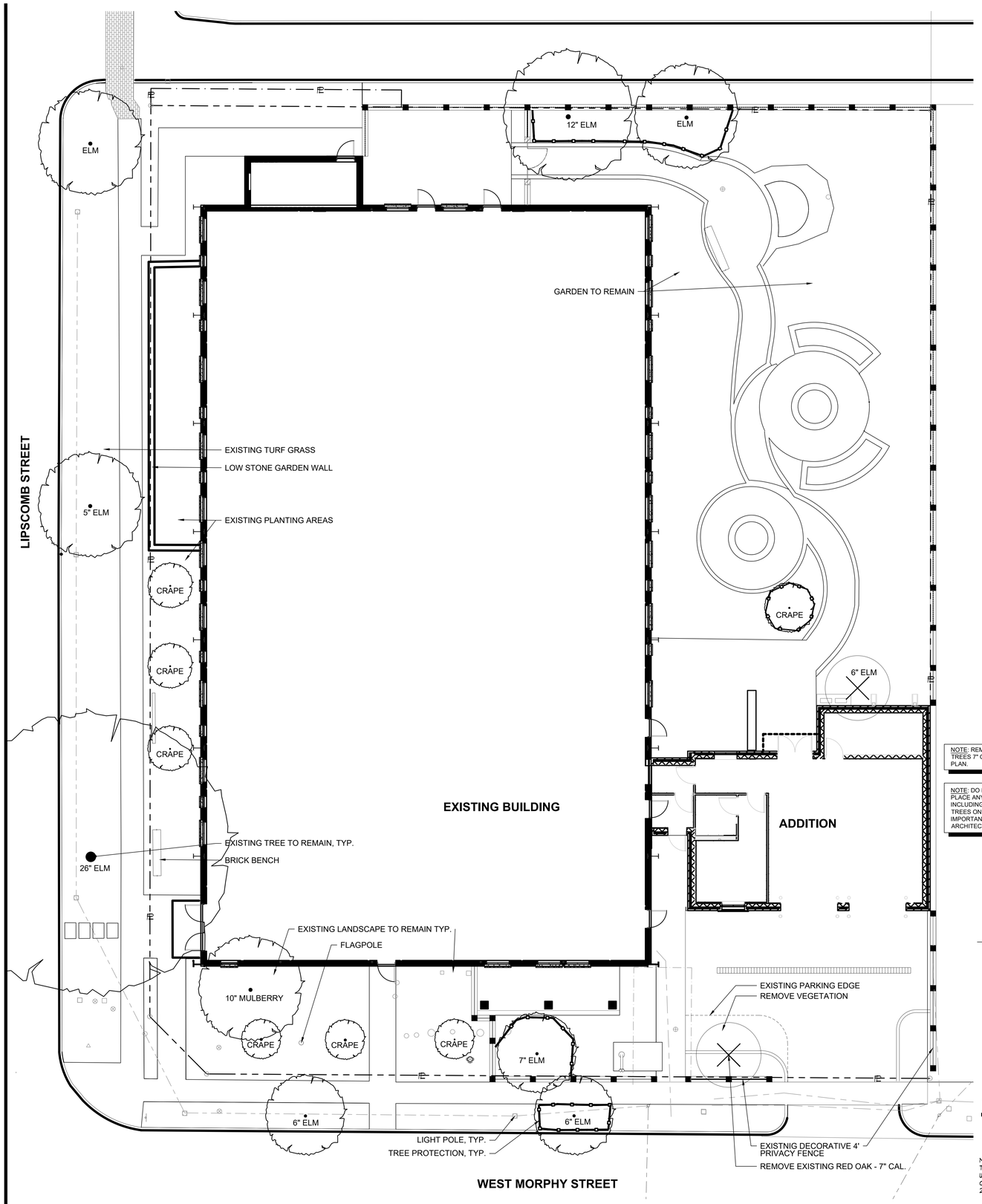


1 TC JAIL DIVERSION - TREE PROTECTION PLAN
1/8" = 1'-0"

0 4 8 16ft NORTH

Table 1: Urban Forestry Requirement Calculator — **Permit #:**

Zoning: NS-T4, Institutional Use

	A. Existing Site Information		Calculation	Square Feet	Acres
1	Gross area of lot(s) or tract(s)		→[1]	23,240	0.53
2	Public utility easements & building area (New Public Schools Only)		→[2]	0	0.00
3	Net Urban Forestry Area (applicable to tree requirements)		A_1-A_2	23,240	0.53
4	Area of parking and drives[3] (single/two-family are exempt)		→	1,108	0.03
5	Preserv method/Existing tree canopy area	Method A Preservation	→	3,125	0.07

	B. Significant Trees[3] (Must Use Tables 2 & 3)	Calculation	Square Feet	DBH
1	All Post Oaks/Blackjack Oaks ≥ 18" dbh	complete Table 3	0	0
2	All other trees ≥ 27" dbh (regardless of species or location)	complete Table 3	0	0
3	Total of significant trees to be preserved	complete Table 3	0	0
4	Significant tree preservation credit	D_1-$H^2 \times 0.5$	0	
5	Total of significant trees to be removed	complete Table 3	0	0

	C. Significant Tree Removal Mitigation Options[3] (Must Use Tables 2 & 3)		Square Feet	$
1	Additional Tree Preservation	complete Table 3	0	
2	Additional Tree Planting	complete Table 3	0	
3	Pay into Tree Fund	complete Table 3		$0

0%

	D. Mitigation For Loss Of Preserved Trees[4] (Reserved for City Staff Use)	Calculation	Square Feet	$
1	Increase min. planting & required site canopy 5X tree area	(from Table 2&3)	0	
2	Penalty for non-approved tree removal or lack of required protection	(from Table 2&3)		$0.00

	E. Site Canopy Requirements		Calculation		Square Feet	Acres
1	Land Use - base requirement	Commercial/Institutional	A_3 x %	30%	6,972	0.16
2	Add 5% for preservation method B ("protected trees")		A_3 x .05		0	0.00
3	Mitigation for significant tree removal[3] (plant/preservation)		C_1+C_2		0	0.00
4	Mitigation for dead/declining/damaged "preserved trees"[4] (plant)		D_1		0	0.00
5	Total required canopy coverage for site		E_1+E_2+E_3+E_4		6,972	0.16
6	Required canopy within or adjacent to parking/drive areas[3]		A_4 x 0.40		443	0.01

	F. Preservation of Existing Canopy		Calculation	Square Feet	Acres
1	Preservation requirement[7] (25%)		A_3 x 0.25	781	0.02
3	Additional preservation **option** to mitigate significant trees		C_1	0	0.00
4	Total preservation requirement		F_1+F_2+F_3	781	0.02
5	Area of existing canopy preserved	**95.1%**	→	2,973	0.07
6	Total preservation credit toward planting		B_4+F_5	2,973	0.07
7	Preservation balance		F_5-F_4	2,192	0.05

	H. New Tree Planting	Calculation	Qty	Square Feet	Acres
1	Required tree planting	E_5-F_6		3,999	0.09
2	Large canopy trees: 2000 ft² per tree at 40ft or greater spacing	2000 x	2	4,000	0.09
3	Medium canopy trees: 700 ft² per tree at 25ft or greater spacing	700 x	0	0	0.00
4	Small canopy trees: 100 ft² per tree at 8ft or greater spacing	100 x		0	0.00
5	Subtotal (deduct for spacing below)	H_2+H_3+H_4		4,000	0.09
6	Deductions for spacing[8]	Size/Spacing (ft)	Deduct x	Qty	Total ft²
	New Trees	Lg 35	200		0
		Lg 30	450		0
	*Deduct per spacing and not per tree.	Lg 25	700	0	0
	*For mixed size spacing use the smaller tree size's deduction.	Lg 20	1,000		0
		Lg 15	1,250		0
		Med 20	150		0
		Med 15	250		0
		Med 10	400		0
7	Total Spacing Deduction	Sum H_6 totals			**0**
8	Total Planting (includes spacing deductions)	H_5-H_7		4,000	0.09

	I. Tree Canopy For Parking Areas[3]	Calculation	Square Feet	$
1	Required canopy within or adjacent to parking/drive areas	E_6	443	0.01
2	Area of canopy coverage being provided for parking/drive	→	22,000	0.51
3	Excess/deficient parking canopy	I_2-I_3	21,557	0.49

NOTE: REMOVE ALL UNDERSTORY VEGETATION, SHRUBS, AND TREES 7" OR LESS, WHETHER OR NOT IT IS SHOWN ON THIS PLAN.

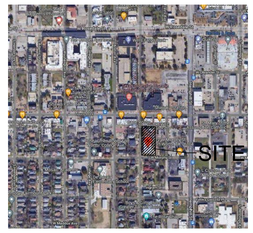
NOTE: DO NOT PARK, DRIVE, STAGE MATERIALS OR OTHERWISE PLACE ANYTHING UNDER EXISTING TREES TO REMAIN, INCLUDING THOSE NOT SHOWN ON THE PLANS. ALL EXISTING TREES ON SITE SHALL BE PROTECTED WITH THE UTMOST IMPORTANCE AND TREE CARE AS DIRECTED BY THE LANDSCAPE ARCHITECT.

NOTES:
1. LIMB UP TREES AT WALKWAYS AND WHERE NOTED TO PROVIDE MINIMUM 7-FEET VERTICAL CLEARANCE. LIMB REMOVAL TO BE APPROVED BY LANDSCAPE ARCHITECT FOR TREES LABELED 'LA'.
2. REMOVE DEAD LIMBS, UNDERGROWTH VEGETATION, AND VINES.
3. PRUNE ALL ROOTS ADJACENT TO NEW CONSTRUCTION, GRADING, BUILDINGS AND PAVEMENT.
4. PERFORM TREE PRUNING BY CERTIFIED ARBORIST AS STATED.

TREE PROTECTION AND REMOVAL LEGEND

APPROXIMATE LIMIT OF CANOPY/ CRITICAL ROOT ZONE/DRIP EDGE
EXISTING TREE TO REMAIN
13" OAK
DRIP EDGE
EXISTING TREE TO REMOVE
13" OAK
TREE PROTECTION FENCING, REF. DETAILS/L1.10
PROPERTY LINE

NOTE:
TREE PROTECTION REQUIRED FOR ALL TREES WITHIN 50-FT OF CONSTRUCTION.
CHAIN-LINK FENCING REQUIRED FOR SIGNIFICANT TREES 24" CALIPER AND LARGER.



SITE MAP LOCATION
NTS

CITY OF FORT WORTH CODE REQUIREMENTS:

SITE = 23,240 SF GROSS 23,240 SF NET

ZONING = NS-T4 / INSTITUTIONAL USE
- 40% MIN. RETAINED OR PLANTED CANOPY COVERAGE REQUIRED FOR PARKING LOTS
- 30% MIN. RETAINED OR PLANTED CANOPY COVERAGE REQUIRED FOR SITE

GROSS AREA OF PROPERTY 23,240 SF .534 ACRES

ADDRESS: 812 MORPHY STREET FORT WORTH, TX 76104
OWNER REP. (HHS) (817) 921-5928

MARTIN AND MOODIES SUBDIVISION BLK B, LOT 5, 6, & 7B TARRANT COUNTY, TEXAS
USE: INSTITUTIONAL ZONED: NS-T4 MARCH 2017

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY /#

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REGISTERED LANDSCAPE ARCHITECT JOCELYN CLARK STAFFANIC 3165 STATE OF TEXAS
Jocelyn Clark Staffanic
06/13/2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: cen
ISSUED FOR: 100% CD	DRAFTER: cen
ISSUE DATE: 06/13/22	CHECKED: jcs

URBAN FORESTRY I, TREE PROTECTION AND REMOVAL PLAN

SHEET
L1.00

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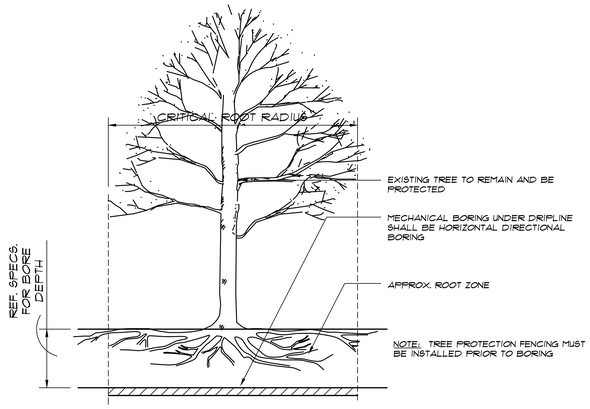


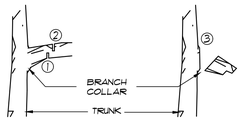
6 BORING UNDER OR NEAR CROWN DRIPLINE - ELEVATION
NOT TO SCALE

USE TO REMOVE TREE LIMBS AS NECESARY. COMPLY WITH HORTICULTURAL PRACTICES.

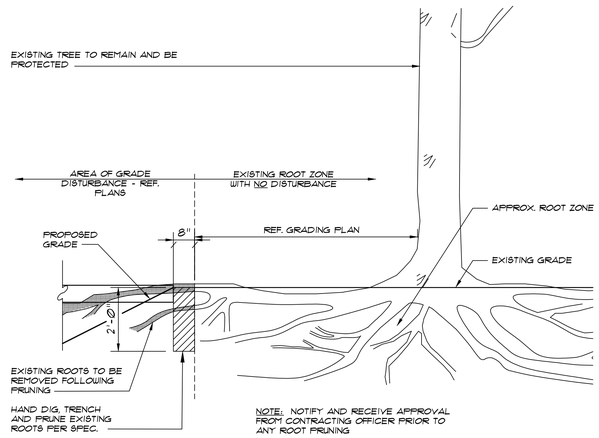
STEP 1: SAW BOTTOM CUT APPROX. 6-12" AWAY FROM TRUNK AND APPROX. ⅓ OF THE WAY THROUGH THE LIMB.
STEP 2: MAKE A SECOND CUT APPROX. 3" FURTHER FROM THE TRUNK THAN THE FIRST CUT UNTIL THE WEIGHT OF THE BRANCH PULLS THE BRANCH DOWN.
STEP 3: CUT THE STUB BACK TO THE COLLAR OF THE BRANCH - DO NOT CUT FLUSH WITH TRUNK.

REMOVE AND DISPOSE OF ALL BRANCHES PER NOTES ON SHEET L1 AND SPECIFCATIONS.

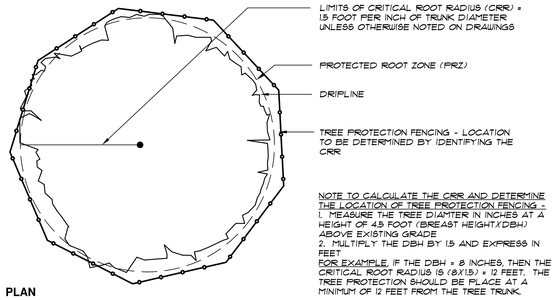
NOTE: PRIOR TO LIMB REMOVAL ON EXISTING TREES, GET WRITTEN PERMISSION AND FIELD VERIFICATION FROM OWNER'S REPRESENTATIVE.



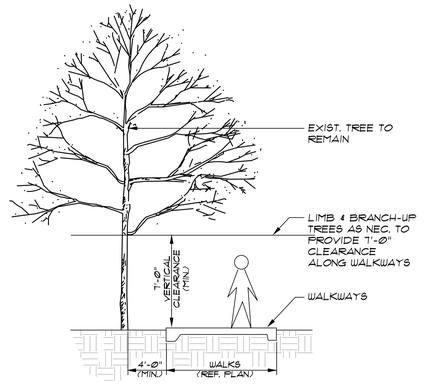
7 3-CUT LIMB PRUNING
NOT TO SCALE



8 ROOT PRUNING AT EXISTING TREES - SECTION
NTS



4 TREE PROTECTION FENCING - CHAIN LINK FENCE
NOT TO SCALE

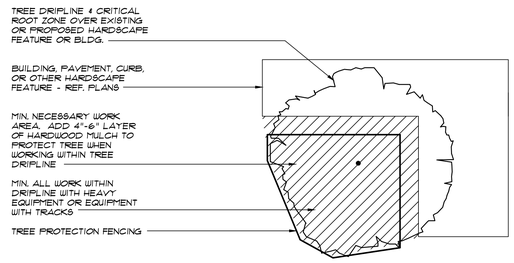


5 TREE CLEARANCE AT WALK
NOT TO SCALE

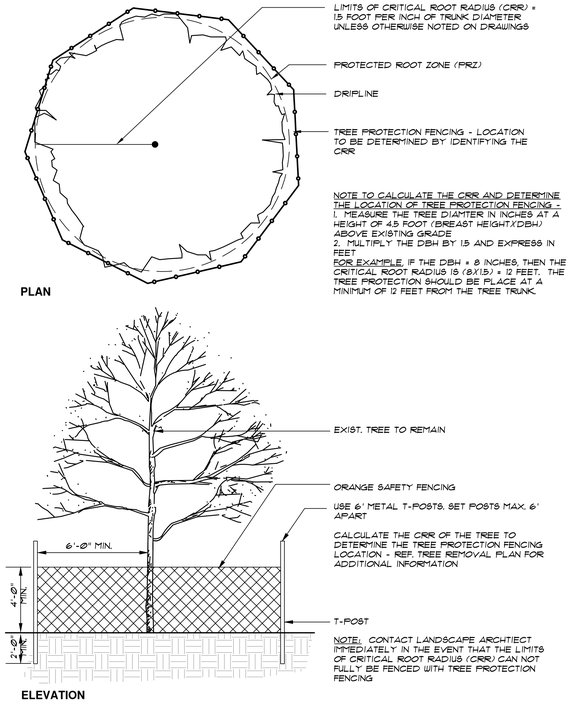
TREE PROTECTION & FENCING NOTES

1. TREE PROTECTION MUST OCCUR PRIOR TO BEGINNING SITE WORK. ANY TREE WITHIN 50' OF ANY CONSTRUCTION OR STAGING SHALL BE REQUIRED TO HAVE TREE PROTECTION, WHETHER IT IS SHOWN OR NOT SHOWN ON THIS PLAN.
2. ALL EXISTING TREES ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION UNLESS DESIGNATED AS "TO BE REMOVED" ON THE DRAWINGS. ORANGE SAFETY FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AS INDICATED ON PLANS AT THE DRIPLINE OR THE CRITICAL ROOT ZONE (WHICHEVER IS GREATER) OF THE TREE OR GROUP OF TREES TO REMAIN.
3. PARKING OF VEHICLES OR PERFORMING WORK WITHIN THESE AREAS OTHER THAN AS SHOWN ON THE PLANS WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING THE ENTIRE CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE CITY OF FORT WORTH STANDARDS AND ORDINANCES.
4. THE CONTRACTOR SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO THE EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL DEMOLITION AND TRASH REMOVAL ADJACENT TO EXISTING TREES SHALL BE COMPLETED USING HAND TOOLS WHERE POSSIBLE. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED UNDER THE DRIPLINE OF ANY EXISTING TREES TO REMAIN. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE DRIPLINE OF TREES TO REMAIN.
5. DISPOSAL OF WASTE MATERIAL, SUCH AS, BUT NOT LIMITED TO: EXCESS SOIL, PAINT, ASPHALT, OIL, SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE DRIPLINE OF THE EXISTING TREES SHALL NOT BE ALLOWED.
6. NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE SHALL BE ATTACHED TO ANY TREE.
7. NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIPLINE OF A TREE TO REMAIN OR BE PROTECTED UNLESS SPECIFIED ON THE PLANS. DO NOT STOCKPILE SUB-SOILS UNDER THE TREE DRIPLINE. ALL EXCAVATION DONE WITHIN THE TREE DRIPLINE SHALL BE HAND DUG UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE.
8. TREE PROTECTION SHALL REMAIN IN-PLACE UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND ONLY REMOVED UPON APPROVAL BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE.
9. WHERE NEW UTILITY LINES ARE CONSTRUCTED WITHIN THE DRIP LINE OF EXISTING TREES, MECHANICALLY BORE THE NEW UTILITY LINE OR ROOT PRUNE THE EXISTING TREE. MECHANICALLY BORE THE UTILITY LINE IF IT IS WITHIN THE DRIP LINE AND WITHIN FIFTEEN FEET OF THE TRUNK OF THE TREE. ROOT PRUNE THE TREE IF THE UTILITY LINE IS WITHIN THE DRIP LINE BUT GREATER THAN FIFTEEN FEET AWAY FROM THE TREE'S TRUNK. REFER TO SPECIFICATIONS FOR BORING AND ROOT PRUNING REQUIREMENTS.
10. WHERE NEW IRRIGATION LINES ARE CONSTRUCTED WITHIN THE DRIP LINE OF EXISTING TREES, HAND DIG OR AIR SPADE LINE IF IT IS WITHIN THE DRIP LINE AND WITHIN FIFTEEN FEET OF THE TRUNK OF THE TREE. ROOT PRUNE THE TREE IF THE LINE IS WITHIN THE DRIP LINE BUT GREATER THAN FIFTEEN FEET AWAY FROM THE TREE'S TRUNK. REFER TO SPECIFICATIONS FOR HAND DIGGING, AIR SPADING, AND ROOT PRUNING REQUIREMENTS.

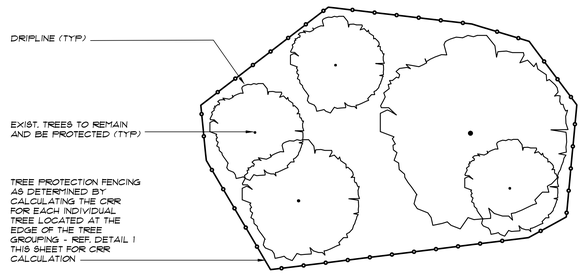
REFERENCE SPECIFICATIONS FOR REPLACEMENT COSTS OF EXISTING TREES DAMAGED OR KILLED DURING CONSTRUCTION ACTIVITIES.



1 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE



2 TREE PROTECTION FENCING - ORANGE SAFETY FENCE
NOT TO SCALE



3 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY #

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REGISTERED LANDSCAPE ARCHITECT · JASON CLARK STAFFANIC · 3165 · STATE OF TEXAS
Jason Staffanic 06/13/2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: cen
ISSUED FOR: 100% CD	DRAFTER: cen
ISSUE DATE: 06/13/22	CHECKED: jcs

TREE PROTECTION DETAILS

SHEET
L1.10

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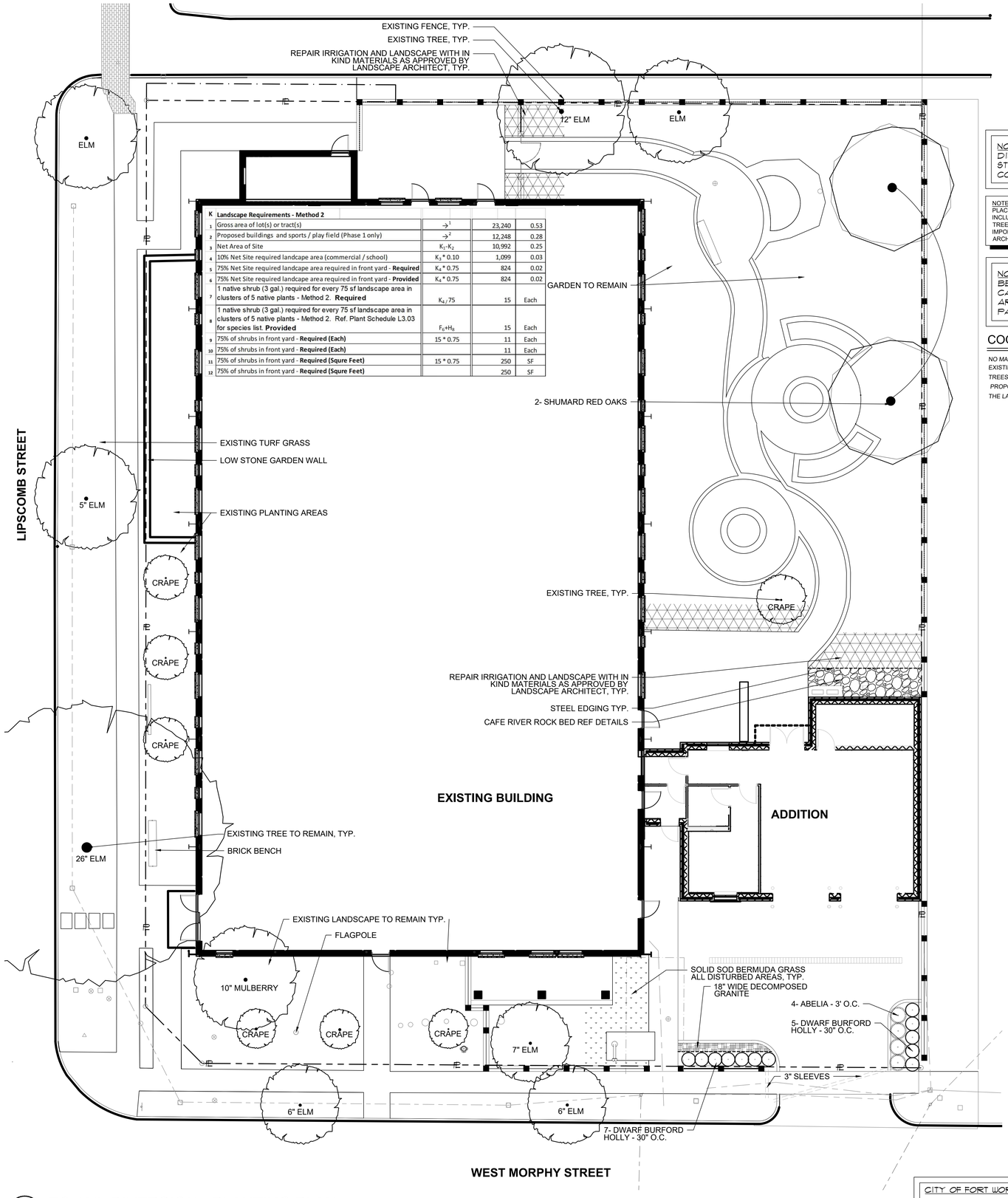


K	Landscape Requirements - Method 2			
1	Gross area of lot(s) or tract(s)	-> [1]	23,240	0.53
2	Proposed buildings and sports / play field (Phase 1 only)	-> [2]	12,248	0.28
3	Net Area of Site	K_1-K_2	10,992	0.25
4	10% Net Site required landcape area (commercial / school)	K_3 * 0.10	1,099	0.03
5	75% Net Site required landcape area required in front yard - **Required**	K_4 * 0.75	824	0.02
6	75% Net Site required landcape area required in front yard - **Provided**	K_4 * 0.75	824	0.02
7	1 native shrub (3 gal.) required for every 75 sf landscape area in clusters of 5 native plants - Method 2. **Required**	K_4 / 75	15	Each
8	1 native shrub (3 gal.) required for every 75 sf landscape area in clusters of 5 native plants - Method 2. Ref. Plant Schedule L3.03 for species list. **Provided**	F_6+H_8	15	Each
9	75% of shrubs in front yard - **Required (Each)**	15 * 0.75	11	Each
10	75% of shrubs in front yard - **Required (Each)**		11	Each
11	75% of shrubs in front yard - **Required (Squre Feet)**	15 * 0.75	250	SF
12	75% of shrubs in front yard - **Required (Squre Feet)**		250	SF

1 TC JAIL DIVERSION - PLANTING PLAN
1/8" = 1'

0 4 8 16ft

NORTH

L.I.C. SHALL SELECT PRO-SPRAY SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

INSTALLATION SHALL MEET ALL OWNER IRRIGATION REQUIREMENTS. L.I.C. SHALL COORDINATE WITH OWNER SPECS PRIOR TO CONSTRUCTION.

LEGEND

PROPERTY LINE

TREES	CODE	NAME
	-	EXISTING TREE TO REMAIN
	SO	SHUMARD OAK TREES 3" CALIPER SHADE TREE

ITEM	CODE	NAME
	BG1	BERMUDAGRASS SOLID SOD (PERMANENT IRRIGATION)
	DG	DECOMPOSED GRANITE
		PLANTING AND IRRIGATION REPAIR AREA

NOTE: SOLID SOD BERMUDAGRASS ALL DISTURBED AREAS INCLUDING STAGING, STORAGE OF MATERIALS, AND AREAS OF CONSTRUCTION ACTIVITY, TYP.

NOTE: DO NOT PARK, DRIVE, STAGE MATERIALS OR OTHERWISE PLACE ANYTHING UNDER EXISTING TREES TO REMAIN, INCLUDING THOSE NOT SHOWN ON THE PLANS. ALL EXISTING TREES ON SITE SHALL BE PROTECTED WITH THE UTMOST IMPORTANCE AND TREE CARE AS DIRECTED BY THE LANDSCAPE ARCHITECT,

NOTE: REPAIR IRRIGATION AND SOLID SOD BERMUDAGRASS ALL DISTURBED AREAS CAUSED BY CONSTRUCTION - INCLUDING AREAS OF STAGING, MATERIAL STORAGE, PARKING, GRADING, AND BUILDING.

COORDINATE WITH EXISTING TREES

NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY. WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE

GENERAL CONSTRUCTION NOTES

1. ALL WASTE MATERIAL AND/OR EXCESS EXCAVATION NOT USED AS PART OF THE WORK SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF AT ACCEPTABLE LOCATIONS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
2. THE CONTRACTOR SHALL BE REQUIRED, AT ALL TIMES, DURING THE CONSTRUCTION TO PROVIDE WARNING SIGNS, BARRICADES, AND OTHER SAFETY DEVICES (INCLUDING TEMPORARY SAFETY FENCING AROUND THE JOB SITE) IN ORDER TO PROTECT THE PUBLIC SAFETY AND HEALTH UNTIL ALL OF THE WORK HAS BEEN COMPLETED AND ACCEPTED.
3. THE CONTACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, INCLUDING THE FRANCHISE UTILITIES, AND UNDERGROUND STRUCTURES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THESE EXISTING UTILITIES OR STRUCTURES CAUSED BY HIS FORCES AND SHALL REPAIR ANY DAMAGE TO THEM CAUSED DURING THIS WORK, AT NO EXPENSE TO THE OWNER. REPAIR SHALL BE WITH IN-KIND MATERIALS AND MUST BE APPROVED BY OWNER'S REP.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING FACILITIES IN AND AROUND THE PROJECT AREA TO INCLUDE TREES, PLANTINGS, SHELTERS, CONCRETE PAVING, BENCHES, SIGNS AND OTHER FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY ITEMS DAMAGED BY HIS FORCES AT NO EXPENSE TO THE OWNER. REPAIR SHALL BE WITH IN-KIND MATERIALS AND MUST BE APPROVED BY OWNER'S REP.
5. THE CONTRACTOR SHALL PROVIDE WARNING SIGNS AND BARRICADES AT LOCATIONS WHERE EXISTING SIDEWALK(S) HAVE BEEN REMOVED OR DAMAGED.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TOPSOIL, COMPOST, ORGANIC FERTILIZER, TURF GRASS SEED, AND TACKIFIER TO STABILIZE SEED AS PER THE DETAILS AND SPECIFICATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE IN DISTURBED AREAS TO BE RESEEDED AND DIRECTING DRAINAGE AWAY FROM THE BUILDING OR TOWARDS AREA DRAINS AS INDICATED ON THE CIVIL DRAWINGS.

IRRIGATION NOTES

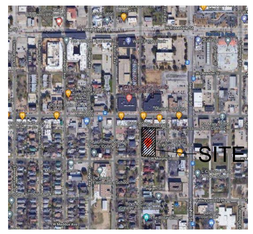
1. PROTECT, REPAIR AND MODIFY ANY IRRIGATION HEADS OR COMPONENTS DAMAGED DUE TO CONSTRUCTION, TRENCHING, GRADING, OR UTILITY WORK TO PROVIDE 100% COVERAGE OF EXISTING TURF, PLANTINGS AND NEWLY SODDED TURF AREAS FOR AREAS OF GRADING DISTURBANCE.
2. NEWLY SEEDED OR SODDED TURF GRASS MAY REQUIRE LONGER ZONE RUN TIMES TO ENSURE 100% COVERAGE OF THE NEW SEED BEDS AND FOR TURF ESTABLISHMENT TO PREVENT EROSION.
3. PROVIDE SUPPLEMENTAL HAND WATERING OR TEMPORARY IRRIGATION AS NEEDED TO ENSURE GERMINATION AND ESTABLISHMENT IF EXISTING IRRIGATION ZONES CANNOT BE MODIFIED.
4. REVIEW EXISTING IRRIGATION SYSTEM PRIOR TO GRADING DISTURBANCE TO ENSURE KNOWLEDGE OF HEAD LAYOUT.
5. COORDINATE ALL WORK WITH THE CLIENT REPRESENTATIVE
6. THE CONTRACTOR SHALL VISIT THE SITE BEFORE CONSTRUCTION BEGINS AND BECOME FAMILIAR WITH THE EXISTING IRRIGATION SYSTEM LAYOUT. CONFIRM THAT ALL ZONES OPERATE FROM THE CONTROLLER BEFORE NEW WORK BEGINS AND NOTIFY THE OWNER IN WRITING OTHERWISE. RE-ROUTE, REPLACE, OR REPAIR EXISTING IRRIGATION EQUIPMENT TO ACCOMMODATE NEW HARDSCAPE OR PLANTINGS. ENSURE COMPLETE IRRIGATION COVERAGE AT ALL AREAS AFFECTED BY NEW WORK, FOLLOWING MANUFACTURER'S EQUIPMENT REQUIREMENTS, CITY, AND T.C.E.Q IRRIGATION CODES.

COORDINATION WITH EXISTING IRRIGATION

THE CONTRACTOR SHALL VISIT THE SITE BEFORE CONSTRUCTION BEGINS TO BECOME FAMILIAR WITH THE EXISTING SYSTEM LAYOUT. REROUTE, REPAIR, OR REINSTALL EXISTING EQUIPMENT, INCLUDING MAINLINE AND CONTROL WIRES, AS REQUIRED, TO MAINTAIN CONTINUED AUTOMATIC OPERATION OF ALL AREAS OUTSIDE THE LIMITS OF WORK. PROTECT EXISTING EQUIPMENT WITHIN THE LIMITS OF WORK, WHICH IS INTENDED TO REMAIN. L.I.C. SHALL COORDINATE WITH PLANTING PLAN AND EXISTING SYSTEM LAYOUT. ALL PLANTING AREAS SHALL RECEIVE PERMANENT FULL COVERAGE IRRIGATION (EITHER EXISTING IRRIGATION OR NEW IRRIGATION) UNLESS OTHERWISE NOTED AS TEMPORARY IRRIGATION.

**THE IRRIGATION CONTRACTOR SHALL CONFIRM THE FOLLOWING REQUIREMENTS FOR CONNECTION TO THE EXISTING MAINLINE PIPE AND CONTROL WIRE OF EXISTING CONTROLLER BEFORE WORK BEGINS:*

1. *EXISTING MAINLINE*
   CONFIRM MAINLINE PIPE LOCATION AND IS SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND.
2. *EXISTING IRRIGATION METER*
   CONFIRM COMBINED EXISTING ZONES SHALL OPERATE WITHIN ALLOWABLE WATERING TIMES AND FLOW REQUIREMENTS PROVIDED BY EXISTING METER.
3. *EXISTING CONTROLLER*
   CONFIRM EXISTING CONTROLLER IS OPERATIONAL. NEW NEW ZONES SHOULD NEED TO BE ADDED.



SITE MAP LOCATION
NTS

CITY OF FORT WORTH CODE REQUIREMENTS:

SITE = 23,240 SF GROSS 23,240 SF NET

ZONING = NS-T4 / INSTITUTIONAL USE
- 40% MIN. RETAINED OR PLANTED CANOPY COVERAGE REQUIRED FOR PARKING LOTS
- 30% MIN. RETAINED OR PLANTED CANOPY COVERAGE REQUIRED FOR SITE

GROSS AREA OF PROPERTY 23,240 SF .534 ACRES

ADDRESS:
812 MORPHY STREET
FORT WORTH, TX 76104
OWNER REP. (HHS)
(817) 921-5928

MARTIN AND MOODIES SUBDIVISION
BLK B, LOT 5, 6, & 7B
TARRANT COUNTY, TEXAS
USE: INSTITUTIONAL
ZONED: NS-T4
MARCH 2017

KEYED NOTES

GENERAL NOTES

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REGISTERED LANDSCAPE ARCHITECT
JASON CLARK STAFFANIC
3165
STATE OF TEXAS
06/13/2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: cen
ISSUED FOR: 100% CD	DRAFTER: cen
ISSUE DATE: 06/13/22	CHECKED: jcs

PLANTING PLAN

SHEET
L2.00

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PLANT AND MATERIAL SCHEDULE

TREES	CODE	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE	REMARKS	QTY
	SO	RED OAK / QUERCUS SHUMARDII	CONT.	3" CAL. MIN.	11'-13'H X 5'-6'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT	2

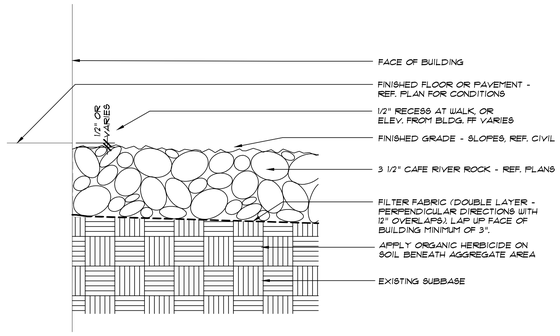
GROUND COVERS	CODE	COMMON NAME / BOTANICAL NAME	CONT	REMARKS	QTY
	BG	BERMUDA GRASS / CYNODON DACTYLON 'TIFFWAY 419'	SOD	SOLID SOD, REF. SPEC 329200, NOTE: ST. AUGUSTINE MAY BE USED IN SHADED AREAS	+/- 150 SF
	DG	DECOMPOSED GRANITE		REFER TO SPECIFICATION MANUAL	+/- 26 SF
		CAFE RIVER ROCK (SMALL)		3.5" DEPTH, REF DETAILS AND SPECS	+/- 90 SF
		SCREENING SHRUB (CODE REQ.)			
		KALEIDOSCOPE ALBELIA	5 GAL	FULL TO BASE, HEAVILY ROOTED TRIANGULAR SPACING AT 36" O.C.	4
		DWARF BURFORD HOLLY	5 GAL	FULL TO BASE, HEAVILY ROOTED TRIANGULAR SPACING AT 30" O.C.	12

MATERIALS	ITEM		DEPTH	REMARKS	QTY
PLANTING BEDS FOR SHRUBS AND GROUNDCOVER: NOTE - FIELD VERITY ALL QUANTITIES, ALL BEDS TO BE FULL, REFER TO DETAILS AND SPECS					
	MULCH - TOPDRESSING PLANTING BEDS	3" DEPTH		RUSTIC CUT HARDWOOD OR APPROVED EQUIVALENT, COMPACTED DEPTH, REF. SPEC SECT 32 9300	FIELD VERIFY
	COMPOST - PLANTING BEDS	3" DEPTH		ORGANIC, WELL-DECOMPOSED, REF. SPEC SECT 329300	FIELD VERIFY
	WEED BARRIER - NEWSPRINT PLANTING BEDS	8 LAYERS		8 LAYERS OF NEWSPRINT AT PLANTING BEDS, REF. DETAILS AND SPEC SECT 32 9300	FIELD VERIFY
	EXPANDED SHALE - PLANTING BEDS	3" DEPTH		PLANTING BEDS, SUPPLIED BY SOIL BUILDING SYSTEMS OR APPROVED EQUAL,REF. SPEC SECT 32 9300	FIELD VERIFY
	ORGANIC BIOLOGICAL FERTILIZER - PLANTING B.			REF. SPEC SECT 329200 FOR MATERIAL AND APPLICATION RATE	FIELD VERIFY
	LANDSCAPE EDGING			BETWEEN AGG & TURF, PLANTING & TURF, OR AGG & PLANTING; STEEL EDGING OR PLASTIC EDGING, COLOR: BLACK	FIELD VERIFY
LAWN / TURF GRASS: NOTE - FIELD VERITY ALL QUANTITIES, ALL DISTURBED AREAS TO BE GRASSED, REFER TO DETAILS AND SPECS					
	TOPSOIL - LAWN / TURF GRASS	1 1/2" DEPTH		REF. DETAILS AND SPECS	FIELD VERIFY
	COMPOST - LAWN / TURF GRASS	1/2" DEPTH		ORGANIC, WELL-DECOMPOSED, REF. DETAILS AND SPECS SUPPLIED BY SOIL SYSTEMS OR APPROVED EQUAL, REF. SPEC 32 9300	FIELD VERIFY
	ORGANIC BIOLOGICAL FERTILIZER - LAWN			REF. SPEC SECT 329200 FOR MATERIAL AND APPLICATION RATE	FIELD VERIFY

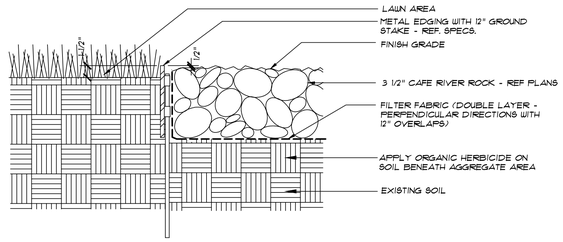
NOTE - QUANTITIES ARE APPROXIMATE, FIELD VERIFY FOR ACCURACY. ALL PLANTING BEDS TO BE FULL AND PREPARED PER SPECIFICATIONS. ALL DISTURBED AREAS TO BE GRASSED AND SOIL PREPARED PER SPECIFICATIONS.
NOTE - PLANT OR MATERIAL SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
NOTE - SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
NOTE - SAMPLES / SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.

LANDSCAPE PLANTING NOTES

1. FINAL GRADING SHALL BE INSTALLED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO PLANTING OR PLANTING LAYOUT.
2. TREES ARE TO BE CENTERED IN EACH TREE PLANTER. CONTRACTOR SHALL STAKE OUT ALL TREE LOCATIONS FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO ADJUST TREES TO EXACT LOCATION IN FIELD.
3. UNLESS DIMENSIONED ON THE PLAN, ALL PROPOSED TREE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL STAKE OUT ALL INFORMAL TREES LOCATIONS IN THE FIELD USING COLORED FLAGS FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN THE FIELD.
4. SHRUB BED LAYOUTS SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO SOIL PREPARATION. ALIGN AND EQUALLY SPACE, IN ALL DIRECTIONS, ALL SHRUBS AS NOTED IN THE DRAWINGS.
5. FINISH GRADE OF SHRUB BEDS SHALL BE THREE AND ONE HALF (3 ½ ") INCHES BELOW ADJACENT PAVEMENT OR CURB WHERE TWO (2") INCHES COMPOST AND TWO (2") INCHES MULCH IS TO BE APPLIED.
6. UNLESS OTHERWISE INDICATED, ALL SHRUB BEDS SHALL BE TOPDRESSED WITH A TWO (2") INCH COMPOST LAYER COVERED WITH A TWO (2") INCH MULCH LAYER. CONTRACTOR SHALL PROVIDE SAMPLES OF COMPOST AND MULCH TO THE OWNER'S REPRESENTATIVE ALONG WITH SPECIFIC TEST DATA PER THE REQUIREMENTS OF THE SPECIFICATIONS.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
8. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION, AND MUST BE REPLACED WITH PLANT MATERIAL OF SIMILAR VARIETY, CHARACTER, AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
9. CONTRACTOR SHALL MEET OR EXCEED ALL MINIMUM SIZES LISTED IN PLANT SCHEDULE INCLUDING CONTAINER SIZE.
10. LANDSCAPE AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING, REMOVAL OF MISCELLANEOUS DEBRIS AND ANY ADDITIONAL FILL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING IN ALL PLANTER LEAVE-OUTS.
12. EXCESS SOIL FROM LANDSCAPE GRADING TO BE REMOVED AND DISPOSED OFF-SITE BY CONTRACTOR.
13. FINISH MULCH GRADES OF ALL TREE BASES SHALL BE (1/2") BELOW ADJACENT PAVEMENT ELEVATION. IN AREAS WHERE A COMBINED (4") LAYER OF MULCH AND COMPOST IS TO BE APPLIED FINISH SOIL GRADES SHALL BE (4 1/2") BELOW ADJACENT PAVEMENT OR CURB.
14. CONTRACTOR SHALL PATCH ALL AREAS OF DISTURBED LAWN WITH SOLID SOD COMMON BERMUDA GRASS - REF. PLANS. NEW SOD SHALL BE FLUSH TO EXISTING TURF.
15. REPLACE DEAD PLANTS WITHIN 7 DAYS AFTER DETERMINATION OF CONDITION.



6 AGGREGATE AT BUILDING/PAVING- SECTION
NTS



7 LAWN AREA AT EDGING AT AGGREGATE, SECT.
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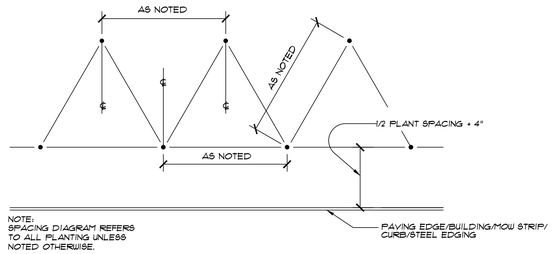
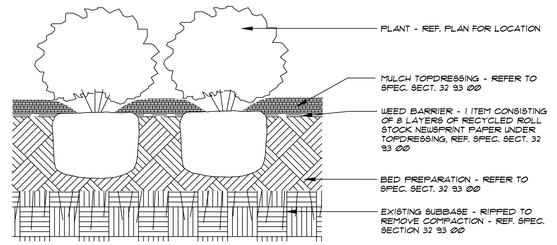


1 TRIANGULAR SPACING - PLAN
NTS



2 SHRUB/PERENNIAL/ORNAMENTAL AT BEDS - SECT.
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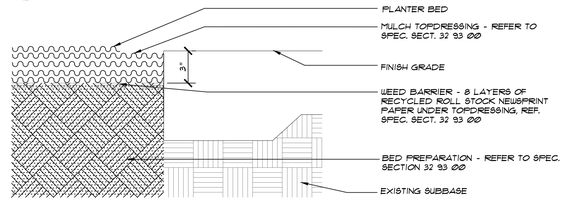

3 PLANTER BED AT PAVEMENT - SECTION
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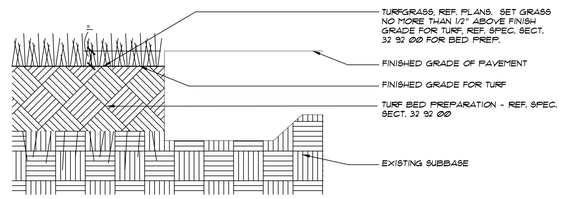

4 LAWN AT PAVEMENT - SECTION
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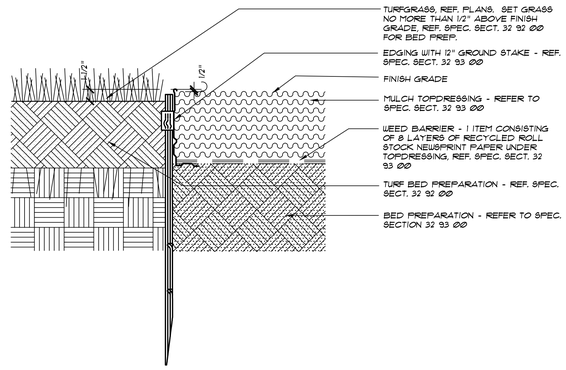

5 PLANTING BED AT EDGING AT DEC. GRANITE - SECT.
NTS

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY #

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REGISTERED LANDSCAPE ARCHITECT JASON CLARK STAFFANIC 3165 STATE OF TEXAS
06/13/2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: cen
ISSUED FOR: 100% CD	DRAFTER: cen
ISSUE DATE: 06/13/22	CHECKED: jcs

PLANTING DETAILS

SHEET
L2.10

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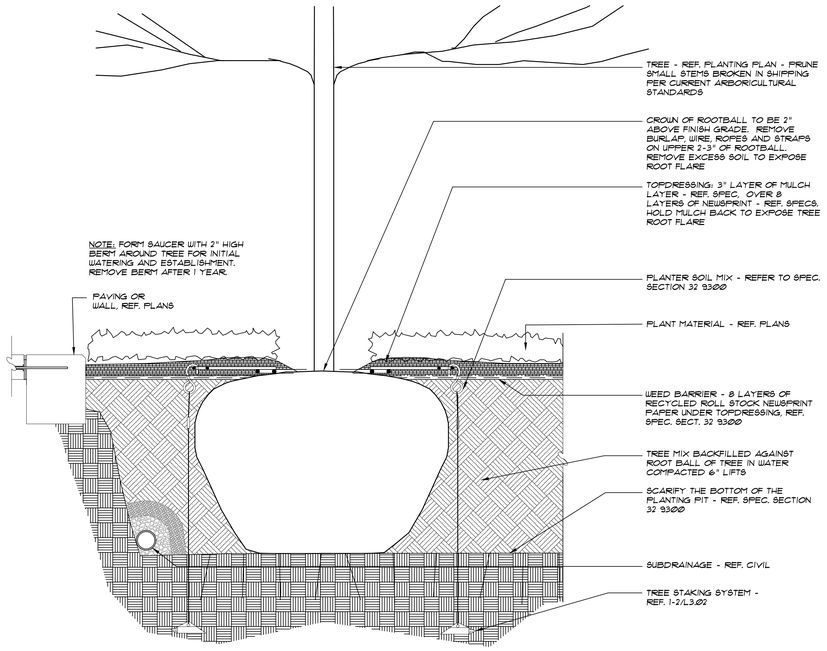


4 TREE PLANTING/STAKING IN PLANTER - SECTION
NTS

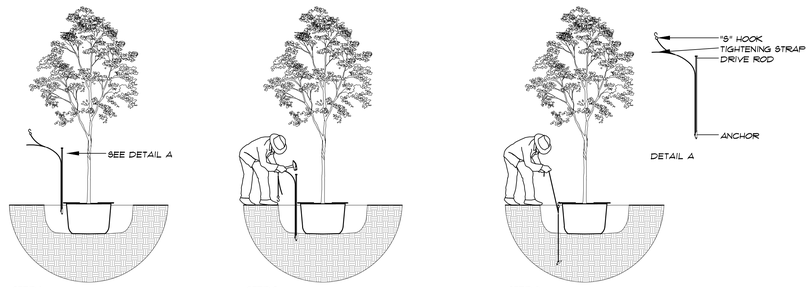
TREE REQUIREMENTS

ROOT SYSTEM DEVELOPMENT:

1. ALL NAMED CULTIVARS WILL BE OWN ROOT CLONES. NO GRAFTER OR BUD-GRAFTED TREES WILL BE ACCEPTED.
2. 100% MECHANICALLY ROOT-PRUNED AT LEAST ONCE AND TRANSPLANTED A MINIMUM OF 3 TIMES DURING THE FIRST 3 YEARS OF THE TREE'S LIFE.
3. THE TREES WILL HAVE BEEN GROWN IN HEAVY CLAY SOIL AND IRRIGATED WITH DRIP IRRIGATION.
4. THE TRUNK FLARE MUST BE ABOVE GROUND AND VISIBLE AT NURSERY BEFORE HARVEST AND AFTER TRANSPLANTING INTO THE LANDSCAPE.
5. THE ROOT BALLS WILL HAVE BEEN HEELED IN FOR AT LEAST 30 DAYS AND HAVE A FLESH FLUSH OF NEW ROOT GROWTH INTO THE BURLAP.
6. NO GIRDLING ROOTS.

CANOPY DEVELOPMENT:

7. TREES WILL HAVE A STRONG CENTRAL LEADER TO TOP OF THE CANOPY. THE TIP OF THE LEADER ON THE MAIN TRUNK MUST BE INTACT AND TERMINAL BUD AT THE HIGHEST PART.
8. NO BRANCH CAN HAVE A DIAMETER GREATER THAN 2/3 THE TRUNK DIAMETER MEASURED DIRECTLY ABOVE THE BRANCH CROTCH. THE TREE WILL HAVE NO INCLUSIONS OR CO-DOMINANT BRANCHES.
9. THE TREE CROWN MUST BE STRUCTURALLY UNIFORM. BRANCHES WILL BE EVENLY DISTRIBUTED AR0UND THE TRUNK. THE CROWN WILL BE FULL OF FOLIAGE EVENLY DISTRIBUTED AROUND THE TREE.



STEP 1:
- SET TREE IN PLANTING PIT
- CENTER ROOT ANCHOR'S INNER RING(S) AROUND TRUNK OF TREE
- ALIGN DRIVE ROD AS CLOSE AS POSSIBLE TO OUTSIDE EDGE OF U-BRACKET

STEP 2:
- DRIVE ANCHOR STRAIGHT DOWN INTO UNDISTURBED SUBBASE SOIL AT MINIMUM OF 18" TO 24" DEPTH
- SEE CHART FOR RECOMMENDED DEPTHS PER TREE SIZE

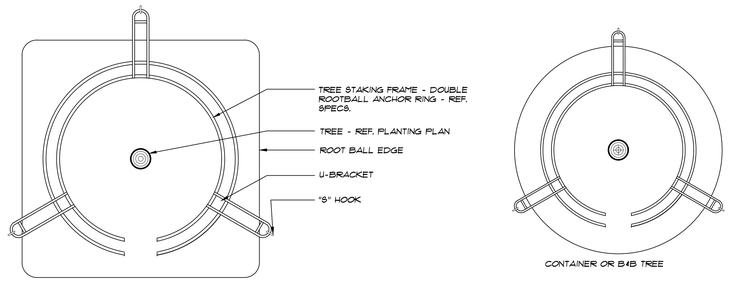
STEP 3:
- REMOVE DRIVE ROD
- REPEAT STEPS 1 & 2 FOR ALL THREE (3) ANCHOR LOCATIONS
- PULL BACK ON STRAP APPROXIMATELY 3" FOR THE V-68 ANCHOR, OR 6" TO 7" FOR THE V-88 ANCHOR TO SET ANCHOR INTO A HORIZONTAL OR LOCKED POSITION. A FULCRUM MAY BE REQUIRED TO ASSIST IN SETTING THE ANCHOR.
- PLACE "S" HOOK OVER THE END OF THE U-BRACKET
- PULL STRAP UP VERTICALLY UNTIL ROOT ANCHOR RINGS BITE INTO THE TOP OF THE ROOT BALL AND U-BRACKETS ARE SETTING FLUSH ON TOP OF THE ROOT BALL.
- TIE EXCESS STRAP OFF TO THE U-BRACKET ALLOWING ENOUGH REMAINING STRAP TO ADJUST TREE, IF NECESSARY
- BACK FILL ONLY AFTER THE TREE IS STRAIGHTENED AND SECURE

OPTIONAL ANCHORING SEQUENCES:

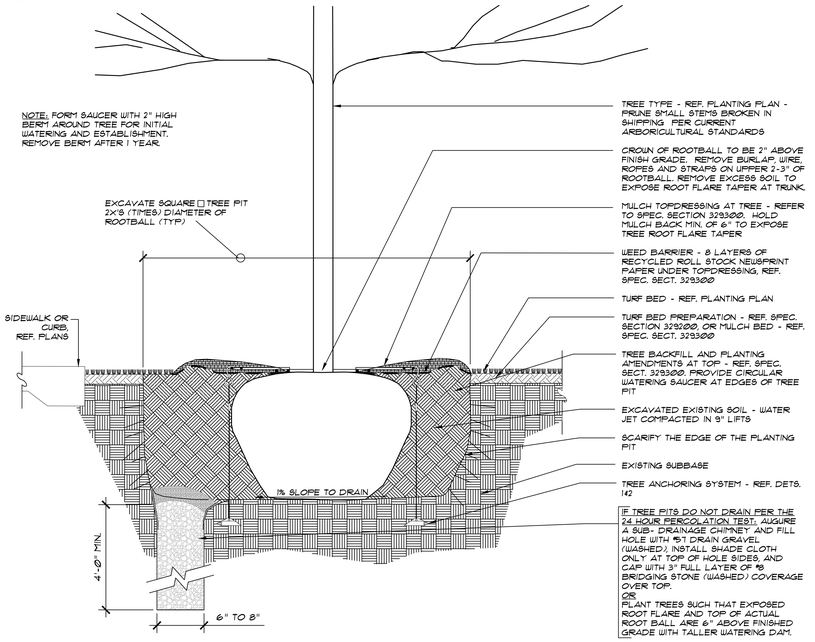
A. FOR ANCHOR INSTALLATION PRIOR TO TREE INSTALLATION - ANCHORS MAY BE PLACE, PER THE ROOT BALL DIAMETER, AND INSTALLED FROM THE BOTTOM OF THE EXCAVATED TREE PIT TO ENSURE THE DEPTH OF THE ANCHORS MEET THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS.

B. FOR ANCHOR INSTALLATION AFTER THE PLANTING BACKFILL - BE SURE TO MARK THE DRIVE PIN TO THE REQUIRED DEPTH TO ENSURE THAT WORKERS ARE DRIVING THE ANCHOR THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS BELOW THE BOTTOM OF THE EXCAVATED TREE PIT. IMPROPER DEPTH OF ANCHORING WILL BE CORRECTED AS NECESSARY TO ENSURE TREE IS STABLE.

1 TREE ANCHORING
NTS



2 TYPICAL TREE GROUND ANCHORNG - PLANS
NTS



3 TREE PLANTING/GROUND ANCHOR GUYING IN TURF - SECTION
NTS

PREPARE TREE AS PER SPECIFICATION SECTION 329300 PRIOR TO SETTING IN EXCAVATED PLANTING PIT.

- REMOVE INVASIVE VEGETATION FROM TOP OF ROOT BALL.
- REMOVE EXCESS SOIL FROM TOP OF ROOT BALL TO EXPOSE TREE'S NATURAL ROOT FLARE TAPER.
- TRIM AWAY GIRDLING, CIRCLING AND SPIDER ROOTS AROUND EXPOSED ROOT FLARE.
- TOP OF PREPARED TREE SETS RELATIVE PLANTING DEPTH ABOVE FINISHED GRADE PER DETAILS AND SPECIFICATIONS.

KEYED NOTES

GENERAL NOTES

REVISIONS DENOTED BY #

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SHEET
L2.11

S T R U C T U R A L N O T E S

COORDINATION

A. The contractor shall compare the architectural, structural, mechanical, electrical, plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the structural drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to mechanical, electrical and plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the structural drawings, but required as noted above, shall be submitted to the engineer for review.

C. Refer to architectural, mechanical, electrical and plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

E. Shop drawings shall be prepared for all structural items and submitted for review by the engineer. Structural drawings shall not be reproduced and used as shop drawings. All items deviating from the structural drawings or from previously submitted shop drawings shall be clouded.

F. The details designated as "typical details" apply generally to the structural drawings in all areas where conditions are similar to those described in the details.

G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the structural drawings shall be referred to the architect. Differences shall also be clouded on the shop drawings.

H. All structural elements of the project have been designed by the engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.

I. The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The contractor and their sub-contractors shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all osha guidelines. The engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors, or any other person performing any of the work, or for the failure of any of these persons to carry out the work in accordance with the structural contract documents.

J. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the engineer, shall govern.

K. Periodic site observation by field representatives of JQ is solely for the purpose of determining if the work is proceeding in accordance with the structural contract documents. This limited site observation is not intended to be a check of the quality or quantity of the work, but rather a periodic check in an effort to inform the owner against defects and deficiencies in the work of the contractor.

CODES & REFERENCED REPORTS

A. The General Building Code used as the basis for the structural design is as follows:
   1. City of Fort Worth Building Code (2021 International Building Code with the City of Fort Worth Amendments)
   2. International Existing Building Code, 2021 Edition

B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

C. Concrete Masonry: Building Code Requirements for Concrete Masonry Structures, American Concrete Institute, ACI 530, as referenced by the General Building Code.

D. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

E. Geotechnical Report: Foundation elements have been designed in accordance with information provided in the following geotechnical report:

Geotechnical engineer:	ALPHA Testing, LLC
Report Number:	W220349-rev2
Date:	03.31.22
Addendum (W220349-1)	06.03.22

DESIGN LOADS

A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:

1. Ceiling and Mechanical at roof	10 psf
2. Roofing and rigid insulation	8 psf

B. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
1. Typical, U.N.O.	100	N/A
2. Roof - Unreduced (see Note 1)	20	N/A

Notes:
2. The roof structure has additionally been designed to support the weight of ponded water in accordance with AISC.
   a. Notify Architect if the final roof slope is less than 1/4"per foot. Elevation difference between primary and overflow drains or scuppers shall not exceed 2".

C. Snow loads
   1. Ground snow load, Pg 5 psf

DESIGN LOADS (CONTINUED)

D. Wind loads
   1. Wind lateral load on structural frame is based on ASCE 7-10 using the following:

a. Ultimate Design Wind Speed Vult	115 mph
b. Nominal Design Wind Speed Vasd	89 mph
c. Exposure	C
d. Internal Pressure Coefficient, Gcpi	+/-0.18
e. Risk Category	II

   2. Components and cladding wind pressures:

Surface	(PSF)	Zone	Area At (ft2)
Exterior walls	+30.5	Interior and edge	10 or less
	-33.1	Interior	10 or less
	-40.7	Edge	10 or less
	+22.9	Interior and edge	500 or greater
	-25.4	Interior	500 or greater
	-25.4	Edge	500 or greater
Roof	-33.4	Interior	10 or less
	-56.0	Edges	10 or less
	-84.2	Corners	10 or less
	-30.5	Interior	100 or greater
	-36.2	Edges	100 or greater
	-36.2	Corners	100 or greater

   - Pressures for Tributary Areas in between the listed values may be linearly interpolated.
   - Negative value signifies pressure acting away from the surface (suction).
   - Edge and Corner zone distances shall be determined in accordance with referenced standard.
   - Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.
   - * Pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values for design of joists and bridging.

E. Seismic Loads
   1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

a. Seismic Importance Factor, IE	1
b. Risk Category	II
c. Mapped Spectral Response Accelerations	
i. Ss (%g)	8.7
ii. S1 (%g)	4.8
d. Site Class	C
e. Spectral Response Coefficients	
i. SDS	0.07
ii. SD1	0.055
f. Seismic Design Category	A
g. Basic Seismic-force-resisting system: Steel System Not Specifically Detailed for Seismic Resistance	
h. Design Base shear, V	.01xW
i. Seismic Response Coefficient(s), Cs	0.01
j. Response Modification Factor(s), R	**3**
k. Analysis Procedure Used	Simplified

BUILDING MOVEMENTS

A. The building movements specified herein are anticipated to occur and shall be taken into account by the Contractor in the design, detailing, and installation of the building elements.

B. Interior floor/roof deflections: Provisions shall be made in interior partitions and other elements supported by or attached to the floors or roofs for relative floor to floor vertical deflections of 1 inch.

DRILLED PIERS

A. Pier design is based on the following design criteria:

1. Allowable end bearing:	30 ksf
2. Side friction:	4.5 ksf
3. Uplift side friction:	2.2 ksf
4. Uplift design depth:	12 ft
5. Side friction (uplift resistance):	3.6 ksf
6. Minimum penetration into bearing stratum:	3 ft

B. Pier design is in accordance with the recommendations in the referenced geotechnical report.

C. Bearing stratum shown on the pier details is grey shale.

D. Piers not specifically located on the plan shall be located on centerline of column above. Where no column occurs, locate on centerline of wall or beam.

E. Provide dowels from piers into concrete above using same bar size and number as shown for pilaster above. Where no pilaster occurs, use dowels of same size and number as pier reinforcing steel. Extend dowels 30 bar diameters into pier and beam, wall, pilaster or column, unless noted otherwise on the Structural Drawings.

F. Elevation of top of piers, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by the pier.

G. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 spacers at a maximum spacing of 8 ft. along the length of the cage and 1'-0" from the bottom.

H. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be placed by the end of the workday.

I. See plans for pier sizes, reinforcing and depth.

J. The contractor shall verify depths of piers before pier steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

K. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in piers.

L. Top of pier shall be of the specified diameter. Form top of pier if required to maintain the specified diameter. Any concrete extending beyond the specified diameter shall be removed.

M. Temporary steel casing may be required during pier drilling operations. Prior to the placement of concrete, any seepage water shall be removed from the pier holes. Special construction procedures in accordance with ACI 336.1 and ACI 336.3R and specifications shall be followed during extraction of the casing and during concrete placement.

N. Contractor shall include in bid documents, unit-costs for casing if required and unit-cost for greater and lesser depth of drilling for each pier size.

O. All piers shall be inspected by a representative of a qualified geotechnical laboratory in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.

P. The contractor shall make and maintain accurate records of the drilled pier depths, bearing stratum, depth of penetration into bearing stratum, diameter and location (including off center eccentricities), and shall submit this information to the Engineer.

CAST-IN-PLACE CONCRETE

A. CONCRETE MIX USAGE SCHEDULE:
All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

Use	Strength psi	Agg. Type	Agg. Size	Slump Inches	Max w/c	Air Content
Drilled Piers	3000	NWT	1-1/2"	5-7	----	-----
Grade Beams	4500	NWT	1"	3-5	0.45	6%
Slab-on-void(Exposed to Weather)	4500	NWT	1"	3-5	0.45	6%
Exterior Equipment Pads	4500	NWT	1"	3-5	0.45	6%

   1. "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate)
   2. Where the w/c ratio is not indicated in the table above, it shall be as necessary to meet strength requirements.
   3. Where the w/c ratio is shown, it shall be adhered to regardless of strength requirements.
   4. "Strength" is required compressive cylinder strength at an age of 28 days.

B. A maximum of 20% of the cementitious materials used in mix designs may be replaced with class C or F fly ash.

C. Provide 6 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

D. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

E. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, Section 26.8, including the following:
   1. Conduits and pipes embedded within a slab, wall, or beam (other than those passing through) shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam in which they are embedded.
   2. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

F. Void forms: Shall be the product of a reputable manufacturer regularly engaged in commercial production of void forms.
   1. Void form composition shall be of corrugated paper material with a moisture resistant exterior and an interior fabrication of a uniform cellular configuration, composed of components constructed of double-faced wax-impregnated (partially only), corrugated fiberboard that is laminated with moisture resistant adhesive.
   2. Design and maintain void forms to support all vertical and lateral loads that might be applied during construction until such loads can be supported by the concrete structure.
   3. Form material shall be designed to lose its strength under prolonged contact with the moisture which normally accumulates beneath slabs and beams on grade.

G. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2. Each proposed mix design shall be accompanied by a record of past performance based on at least 30 consecutive strength tests, or by three laboratory trial mixtures with confirmation tests.

H. Grade beams in contact with earth shall be formed both sides unless noted otherwise in details.

I. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck.

CONCRETE REINFORCING

A. Concrete reinforcement for the project shall conform to the following:
   1. All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.
   2. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706.
   3. Deformed Bar Anchors. ASTM A1064 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

C. Reinforcement in Housekeeping Pads shall be welded smooth wire reinforcement 6 x 6 W2.9 x W2.9 minimum in all housekeeping pads supporting mechanical equipment whether shown on the Structural Drawings or not unless heavier reinforcement is called for on the Structural Drawings.

D. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
   1. Class A lap beam top reinforcing bars at mid span.
   2. Class A lap beam bottom reinforcing bars at the supports.
   3. Provide Class B lap at other location pending Engineer's approval.
   4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
   5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.
   6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.

E. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

F. Heat shall not be used in the fabrication or installation of reinforcement.

G. Reinforcing steel clear cover shall be as follows:

1. Drilled Piers	3"
2. Earth-formed grade beams	1 1/2" top, 3" sides, 3" bottom
3. Formed grade beams	1 1/2" top, 2" sides, 3" bottom
4. Slab-on-grade	1 1/2" top

STRUCTURAL MASONRY

A. Minimum compressive strength of the masonry (f'm) shall be as noted below.

B. Mortar shall conform to ASTM C270, Type N. Masonry cement shall not be used.

C. Concrete masonry units shall be hollow load bearing units which conform to ASTM C90, with a minimum net compressive strength as follows:

f'm (psi)	Net area Compressive Strength of CMU Block (psi)
2000	2000

D. Chases shall be built in and not cut in. Chases shall be plumb and shall be minimum one unit length from jambs of openings. Anchors, wall plugs, accessories and other items to be built in shall be installed as the masonry work progresses. All cutting and fitting of masonry, including that required to accommodate the work of other sections shall be done by masons with masonry saws.

E. Coarse grout shall conform to ASTM C476 and placed in accordance with ACI 530.01 Section 3.5, with a maximum aggregate size of 1/2" and a minimum compressive strength as follows:

Location	Compressive Strength (psi)
Typical	2000

F. Reinforce concrete masonry unit joints with ladder type hot dip galvanized cold-drawn steel conforming to ANSI/ASTM A82, with W2.8 side rods with W1.7 cross rods.
   1. Space joint reinforcing at 16 inches o.c. unless noted otherwise.
   2. Lap joint reinforcing 14 inches at splices.
   3. Provide prefabricated joint reinforcing corner pieces at all wall corners and intersections.
   4. Joint reinforcing shall be discontinuous at control and expansion joints.

G. Lap reinforcing bars in grouted masonry as noted below. Splices in reinforcing shall be staggered so that not more than 1/2 of all bars are spliced at the same location.
   1. Vertical bars:

#4, #5 rebar	60 bar diameters
#6 rebar	70 bar diameters
#7 or larger rebar	Mechanical splices only

   2. Bond beams: 40 bar diameters
   3. Lintels: Do not splice

H. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 530, Section 3.2.2, including the following:
   1. Conduits, pipes, and sleeves in masonry shall be no closer than 3 diameters on center. Minimum spacing of conduits, pipes or sleeves of different diameters shall be determined using the larger diameter.
   2. Vertical conduits, pipes, or sleeves placed in masonry jambs, columns or pilasters shall not displace more than 2 percent of the net cross-sectional area.
      a. The net cross-sectional area is the area of masonry units, grout, and mortar. Ungrouted cells are not considered part of the net cross-sectional area.

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STRUCTURAL NOTES

SHEET
S0-01

6/13/22

shaping the built environment
JQ infrastructure
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TBPE FIRM F-7986

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S T R U C T U R A L N O T E S

POST-INSTALLED ANCHORS AND DOWELS

A. Mechanical Anchors:
Note: Hilti products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.

1. Screw Anchors:
   a. In Concrete: Screw Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. Kwik HUS-EZ, CRC, or SS (ICC-ES ESR-3027), Hilti Inc.
      2. Titen HD (ICC-ES ESR-2713), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-3889), DEWALT
   b. In Grouted Masonry: (Installation permitted in both the top and face of wall) Screw Anchors shall have been tested and qualified in accordance with ICC-ES AC 106. Do not install anchors within 1 1/2" of a head joint, notify JQ if conflict occurs. Qualifying anchors shall be one of the following products:
      1. Kwik HUS-EZ and HUS-EZ P (ICC-ESR-3056), Hilti Inc.
      2. Titen HD (ICC-ES ESR-1056), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-4042), DEWALT

B. Adhesive Anchors:
Note: Hilti anchor rods & Hilti acrylic (epoxy) adhesive products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.

1. Adhesive Anchors with Threaded Rod:
   a. In Concrete: Adhesive Anchors shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Epoxy: HIT-RE 500V3 SAFESET (ICC-ES ESR-3814), Hilti Inc.
      2. Epoxy: SET-3G (ICC-ES ESR-4057), Simpson Strong-Tie Co., Inc.
      3. Epoxy: Pure 110+ (ICC-ES ESR-3289), DEWALT
      4. Acrylic: HIT-HY 200 SAFESET (ICC-ES ESR-3187), Hilti Inc.
      5. Acrylic: AT-XP (IAPMO-UES ER-0263), Simpson Strong-Tie Co., Inc.
      6. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT
   b. In Grouted Concrete Masonry: (Installation permitted in both the top and face of wall) Adhesive Anchors shall have been tested and qualified in accordance with ICC-ES AC 58. Qualifying anchors shall be one of the following:
      1. Acrylic: HIT HY-270 SAFESET (ICC-ES ESR-4143), Hilti, Inc.
      2. Acrylic: AT-XP (IAPMO-UES ER-0281), Simpson Strong-Tie Co., Inc.
      3. Acrylic: AC 100+Gold (ICC-ES ESR-3200), DEWALT
   c. In Ungrouted Concrete Masonry with mesh screen tube:
      1. Acrylic: HIT HY-270 (ICC-ES ESR-4143), Hilti, Inc.
      2. Acrylic: AC 100+Gold (ICC-ES ESR-4105), DEWALT
      3. Epoxy: SET-XP (IAPMO-UES ER-265), Simpson Strong-Tie Co., Inc.
   d. Threaded anchor rod shall be one of the following:
      1 Hilti adhesive: "HIT-Z" AISI 1038
      2. Simpson adhesive: Steel meeting the requirements of ASTM F1554, grade 36.
      3. DEWALT adhesive: Steel meeting the requirements of ASTM A1554, grade 36.
      4. Anchor rod shall have a chamfered end on one end to accept a nut and washer; it may have a 45-degree chisel point on the other end.
      5. Nuts and washers shall have a proof load strength at least as strong as anchor rod. Stainless steel nuts and washers shall be provided with stainless steel rods.

2. Adhesive Rebar Dowelling:
   a. Adhesive dowels are not permitted to be substituted for cast-in dowels unless authorized in advance by JQ for each specific location.
   b. Adhesive doweling systems in concrete shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Epoxy: HIT-RE 500V3 SAFESET (ICC-ES ESR-3814), Hilti Inc.
      2. Epoxy: SET-3G (ICC-ES ESR-4057), Simpson Strong-Tie Co., Inc.
      3. Epoxy: Pure 110+ (ICC-ES ESR-3289), DEWALT
      4. Acrylic: HIT-HY 200 SAFESET (ICC-ES ESR-3187), Hilti, Inc.
      5. Acrylic: SET-XP (ICC-ES ESR-2508), Simpson Strong-Tie Co., Inc.
      6. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT

C. Anchor and Dowel Installation Requirements
1. Anchors and dowels of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current evaluation (ICC-ES or IAPMO-UES) report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
2. The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor or dowel locations can be adjusted by a maximum of 1 1/2" from detailed locations to avoid conflicts, but shall neither change arrangement nor move closer to a concrete edge.
3. Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.
4. Holes for anchors and dowels shall be drilled in a continuous operation using the drill-bit type and size recommended by the anchor manufacturer. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. Holes shall be drilled using a hammer drill, coring shall not be allowed, unless noted otherwise.
5. Oil free compressed air shall be used to blow out the holes unless one of the approved systems noted below is utilized. Unapproved shop vacs, squeeze bulbs, etc. shall NOT be used. Refer to manufacturer's information for detailed cleaning instructions.
   a. Hilti SAFESET system with Hilti Hollow Drill Bit and Vacuum System (VC150 or VC300) may be used to eliminate hole cleaning with adhesive anchors.
   b. Simpson Speed Clean DXS system may be used to eliminate manual hole cleaning with adhesive anchors.
   c. DEWALT Dust X system with hollow drill bit may be used to eliminate manual hole cleaning with adhesive anchors.
6. All abandoned holes shall be filled with non-metallic nonshrink grout capable of reaching a design compressive strength of 5,000 psi at 28 days.
7. Holes in connection plates shall be no more than 1/16" larger than the anchor diameter for 3/4" diameter anchors or less and holes in connection plates shall be no more than 1/8" larger than the anchor diameter for 1" diameter anchors or larger; Unless specified otherwise by the manufacturer. If larger holes are required for erection purposes, Contractor shall notify Engineer such that a plate washer size can be provided.
8. At the time of anchor installation, concrete shall have a minimum compressive strength of 2500 psi and an age of 21 days.
9. The following parameters were used in the determination of the bond stress for adhesive anchors. Contractor shall notify JQ if any of these parameters are not met:
   a. Drilled hole condition: Dry
   b. No diamond core drilling
   c. Substrate temperature range at the time of installation and conditioned per manufacturer requirements:

Concrete Anchors	Minimum (°F)	Maximum (°F)
Hilti HIT RE-500V3	23	104
Hilti HY-200	14	104
Simpson SET-3G	40	100
Simpson AT-XP	14	100
DEWALT Pure 110+	41	104
DEWALT AC 200+	23	104

Masonry Anchors	Minimum (°F)	Maximum (°F)
Hilti HY-270	23	70
Simpson AT-XP	14	100
Simpson SET-XP	50	70
DEWALT AC 100+	40	80

   d. Maximum short term substrate temperature after installation = 130°F
   e. Maximum long term substrate temperature after installation = 110°F

POST-INSTALLED ANCHORS AND DOWELS (CONTINUED)

D. All post-installed anchors shall be installed by personnel trained by a manufacturer's field representative for each product to be used. A record of training shall be kept on site and be made available to the EOR as requested.

E. For adhesive anchors installed in a horizontal orientation subject to sustained tension loading and all upwardly inclined (including soffit installations) orientation:
1. Per ACI 318-14 (17.8.2.2): Installation shall be performed by personnel certified by ACI/CRSI "Adhesive Anchor Installer Certification Program." Certification shall include written and performance tests.

STRUCTURAL STEEL

A. Material
1. All hot rolled steel members shall be new and conform to ASTM specification A6.
2. ASTM Specification and Grade - clearly mark the grade on each member.
3. Unless Noted otherwise on the Structural Drawings, structural steel members shall be:
   a. W-shapes shall conform to ASTM A992.
   b. Channels shall conform to ASTM A36.
   c. Angles shall conform to ASTM A36.
   d. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
   e. Square or rectangular hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 50 ksi.
   f. Structural steel plate shall conform to ASTM A36.
   g. Any other steel shall conform to ASTM A36.
   h. Headed stud shear connectors shall conform to ASTM A108.

B. Fabrication
1. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected.

C. Erection
1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.
2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.
4. Hot dip galvanize after fabrication all structural steel items and connections permanently exposed to the weather, whether specified on the Structural Drawings or not. Such items include, but are not limited to:
   a. Shelf angles
   b. All embedded plates in concrete
   c. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
   d. Railing exposed to weather.
   e. Examine the Architectural and Structural Drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

D. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

STRUCTURAL STEEL CONNECTIONS

A. Welded Connections
1. All welding shall conform to ANSI/AWS D1.1, latest edition.
2. Minimum fillet weld size to be 3/16 inch or minimum size required by AISC, whichever is larger.

B. Bolted Connections
1. Unless noted otherwise on the Structural Drawings, bolts shall be 3/4 inch diameter and conform to ASTM F3125, grade A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane.
2. Bolts shall be tightened to "snug tight" as defined by AISC, unless noted otherwise on the Structural Drawings.

C. Any structural steel connection not specifically detailed on the Structural Drawings shall be designed and detailed by the Contractor's professional engineer licensed in the state having jurisdiction at the project site (delegated designer). Sealed calculations for all connections designed by the Contractor's delegated designer shall be submitted for the Architect's files.

D. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are factored loads conforming to the requirements of AISC Load and Resistance Factor Design (LRFD).

E. All welds denoted as moment connection or complete joint penetration (CJP) weld shall be ultrasonically or x-ray certified by an independent testing agency.

F. Roof edge angles shall be continuous and shall be spliced only at supports. Splices shall be butt welded or an approved connection designed by delegated designer to develop the full capacity of the member.

G. Base Plates
1. Column base plates shall be set to the elevation indicated on the Structural Drawings and leveled using shims or by double nuts on anchor bolts. Base plates shall then be grouted with a non-shrink, high strength nonmetallic grout. Tighten anchor bolts after supported members have been positioned and plumbed.
2. Hole sizes in base plates shall be oversized with plate washers per AISC Table 14-2, and welded to the baseplate per AISC minimum, U.N.O.

H. Anchor rods shall be:
1. Typical: ASTM F1554 Gr. 36, Weldable.

I. For connections not specifically addressed by these notes or the Structural Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

DESIGN BY OTHERS

A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site.
1. Cold Formed Metal Framing
2. Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
3. Embedded assemblies, inserts, and/or hangers for fire suppression systems.
4. Excavation Support and Protection

B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

METAL DECKS

A. Metal Roof Deck
1. Metal Roof Deck Schedule:

Location	Gauge	SDI Deck Type	Deck Depth (in)	Sheet Width (in)	Min. Ix (in4)	Min. Sp (in3)	Min. Sn (in3)
Typ. UNO	20	WR	1.5	36	0.212	0.234	0.245

Sp = positive section modulus in3
Sn = negative section modulus in3
I = moment of inertia in4

2. Roof deck shall be galvanized.
3. Sheet steel for galvanized roof deck and accessories shall conform to ASTM A653, Structural Quality, with a minimum yield strength of 33 ksi. Galvanizing shall conform to ASTM A653 with a minimum coating of G60 as defined in A653.
4. Roof deck shall be continuous over four or more supports.
5. Place deck panels on structural supports and adjust to final position with ends lapped 2 inches over structural supports. Provide minimum end bearing of 2 inches.
6. Roof deck connections shall be as follows:

Location	Support Connx Pattern	Support Fastener	Sidelap Fastener/ No per span
Typical Building			
Interior Field	36/4	5/8 PW	#10 Tek/ 3
Perimeter Band	36/7	5/8 PW	#10 Tek/ 5
Corner Zones	36/7	5/8 PW	#10 Tek/ 5

At exterior sides and all beams parallel to deck span provide puddles welds at 12" on centers.

See Design Wind Load information or plans for "a" dimension and Interior Fields, Perimeter Band, Ridge Band, and Corner Zones wind loads.
PW = Puddle Weld
7. Puddle welds shall be 5/8" minimum diameter.
8. Mechanical, electrical and plumbing systems shall not be supported by the metal roof deck.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
PIER TYPE, T.O.PIER EL. T.O.PIER DETAIL	CONCRETE PIER
MOMENT CONNECTION, BEAM SIZE, WXXxXX, MOMENT CONNECTION	STEEL BEAM MOMENT CONNECTION
#	NEW COLUMN GRID
#	EXISTING COLUMN GRID
	SLAB OR DECK SPAN DIRECTION
	DROP IN SLAB OR DECK
	DROP AND SLOPE IN SLAB OR DECK
	SLOPE IN SLAB OR DECK
	STEEL BEAM SPLICE
	MASONRY WALL
	WINDOW IN MASONRY WALL
	DOOR IN MASONRY WALL
SW-x	CONCRETE SHEAR WALL - SEE SCHEDULE
	EXISTING CONSTRUCTION
	MISCELLANEOUS - SEE PLAN
	DEMO
	ROOF TOP UNIT (RTU)

ABBREVIATIONS

ABV.	-	ABOVE
A.F.F.	-	ABOVE FINISHED FLOOR
ADDN'L.	-	ADDITIONAL
ADH.	-	ADHESIVE
ADJ.	-	ADJACENT
AGGR.	-	AGGREGATE
A/C	-	AIR CONDITIONER
AHU	-	AIR HANDLING UNIT
ALT.	-	ALTERNATE
ALUM.	-	ALUMINUM
A.C.I.	-	AMERICAN CONCRETE INSTITUTE
A.I.S.C.	-	AMERICAN INSTITUE OF STEEL CONSTRUCTION
A.B.	-	ANCHOR BOLT
&	-	AND
L	-	ANGLE
APPD.	-	APPROVED
APPROX.	-	APPROXIMATE
ARCH.	-	ARCHITECT
ARCH'L	-	ARCHITECTURAL
A.E.C.	-	ARCHITECTURALLY EXPOSED CONCRETE
A.E.S.S.	-	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
@	-	AT
B.F.	-	BACK FACE
B. TO B.	-	BACK TO BACK
BSMT.	-	BASEMENT
BM.	-	BEAM
BRG.	-	BEARING
B.F.F.	-	BELOW FINISH FLOOR
BTWN.	-	BETWEEN
BEV(D)	-	BEVEL(ED)
BLK.	-	BLOCK
B.L.	-	BLOCK LINTEL
BLKG.	-	BLOCKING
BOT.	-	BOTTOM
B.O.	-	BOTTOM OF
B.O.S.	-	BOTTOM OF STEEL
BRKT.	-	BRACKET
BR.L.	-	BRICKLEDGE
BRDG.	-	BRIDGING
BLDG.	-	BUILDING
C	-	CAMBER
C.I.P.	-	CAST-IN-PLACE
CLG.	-	CELING
C.L.	-	CENTER LINE
C.G.	-	CENTER OF GRAVITY
C.G.S.	-	CENTER OF GRAVITY OR STRAND
CTR'D.	-	CENTERED
CLR.	-	CLEAR OR CLEARANCE
CFS	-	COLD FORMED STEEL
COL.	-	COLUMN
C.OR COMP.	-	COMPRESSION
CONC.	-	CONCRETE
CMU	-	CONCRETE MASONRY UNIT
CONN(S)	-	CONNECTION(S)
CONST.	-	CONSTRUCTION
CONST. JT.	-	CONSTRUCTION JOINT
CONT.	-	CONTINUOUS
CONTR.	-	CONTRACTOR
C.J.	-	CONTROL JOINT
COORD.	-	COORDINATE
COV. PL.	-	COVER PLATE
D.L.	-	DEAD LOAD
D.B.A.	-	DEFORMED BAR ANCHOR
D.	-	DEPTH
DTL.	-	DETAIL
DIAG.	-	DIAGONAL
DIA OR Ø	-	DIAMETER
DIM(S).	-	DIMENSION(S)
DBL.	-	DOUBLE
XX-STR	-	DOUBLE EXTRA STRONG
DVTL.	-	DOVETAIL
DWL(S).	-	DOWEL(S)
DN.	-	DOWN
DS.	-	DOWNSPOUT
DWG(S).	-	DRAWING(S)
EA.	-	EACH
E.F.	-	EACH FACE
E.W.	-	EACH WAY
E.O.D.	-	EDGE OF DECK
ELEC.	-	ELECTRICAL
EL.	-	ELEVATION
ELEV.	-	ELEVATOR
EMBED.	-	EMBEDMENT
ENGR.	-	ENGINEER
EQ.	-	EQUAL
EQUIP.	-	EQUIPMENT
EF	-	EXHAUST FAN
(E)	-	EXIST.
EXIST.	-	EXISTING
EXP.	-	EXPANSION
E.J.	-	EXPANSION JOINT
EXT.	-	EXTERIOR
X-STR	-	EXTRA STRONG
FABR.	-	FABRICATOR
F. TO F.	-	FACE TO FACE
F.S.	-	FAR SIDE
F.V.	-	FIELD VERIFY
FIN'D	-	FINISHED)
FIN. FL.	-	FINISHED FLOOR
FP.	-	FIREPROOF(ING)
FLG.	-	FLANGE
FL.	-	FLOOR
F.D.	-	FLOOR DRAIN
FT.	-	FOOT (OR) FEET
FDN.	-	FOUNDATION
FRMG	-	FRAMING
F.P.	-	FULL PENETRATION
GA.	-	GAGE OR GAUGE
GALV.	-	GALVANIZED
G.C.	-	GENERAL CONTRACTOR
GR.	-	GRADE
GR. BM.	-	GRADE BEAM
H.S.A.	-	HEADED STUD ANCHOR
HT.	-	HEIGHT
H.P.	-	HIGH POINT
HSS	-	HOLLOW STRUCTURAL SECTION
HK.	-	HOOK
HORIZ.	-	HORIZONTAL
H.B.	-	HORIZONTAL BRACE
H.D.	-	HOT-DIP
IN.	-	INCH
INFO.	-	INFORMATION
I.D.	-	INSIDE DIAMETER
I.F.	-	INSIDE FACE
INT.	-	INTERIOR
INTERM.	-	INTERMEDIATE
JT.	-	JOINT
J.G.	-	JOIST GIRDER
JST(S)	-	JOIST(S)
KLF	-	KIP PER LINEAR FOOT
KSF	-	KIP PER SQUARE FOOT
KSI	-	KIP PER SQUARE INCH
K	-	KIPS (1000 LBS)
L	-	LENGTH
L.W.	-	LIGHTWEIGHT
L.W.C.	-	LIGHTWEIGHT CONCRETE
L.L.	-	LIVE LOAD
LOC.	-	LOCATION
LLH	-	LONG LEG HORIZONTAL
LLV	-	LONG LEG VERTICAL
LSH	-	LONG SIDE HORIZONTAL
LSV	-	LONG SIDE VERTICAL
LSL	-	LONG SLOTTED HOLE
LONG	-	LONGITUDINAL
L.P.	-	LOW POINT
MFR.	-	MANUFACTURE(R)
MAS.	-	MASONRY
MAT.	-	MATERIAL
MAX.	-	MAXIMUM
MECH.	-	MECHANICAL
MEP	-	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	-	METAL
MEZZ.	-	MEZZANINE
MID.	-	MIDDLE
MIN.	-	MINIMUM
MISC.	-	MISCELLANEOUS
M	-	MOMENT
M.C.	-	MOMENT CONNECTION(S)
N.F.	-	NEAR FACE
NOM.	-	NOMINAL
N.S.	-	NON-SHRINK
N/A	-	NOT APPLICABLE
N.I.C.	-	NOT IN CONTRACT
N.T.S.	-	NOT TO SCALE
NO. OR #	-	NUMBER
O.C.	-	ON CENTER
OPNG(S)	-	OPENING(S)
OPP.	-	OPPOSITE
O.H.	-	OPPOSITE HAND
O.D.	-	OUTSIDE DIAMATER
O.F.	-	OUTSIDE FACE
OVS	-	OVER-SIZED HOLE
P	-	PAN
P.J.	-	PANEL JOINT
PAR.	-	PARALLEL
PERP.	-	PERPENDICULAR
PC.	-	PIECE
PL.	-	PLATE
PT.	-	POINT
P-T	-	POST-TENSION(ED)
# OR LBS.	-	POUNDS
PCF	-	POUNDS PER CUBIC FOOT
PLF	-	POUNDS PER LINEAR FOOT
PSF	-	POUNDS PER SQUARE FOOT
PSI	-	POUNDS PER SQUARE INCH
P.E.M.B.	-	PRE-ENGINEERED METAL BUILDING
P/C	-	PRECAST CONCRETE
PREFAB.	-	PREFABRICATED
PRELIM.	-	PRELIMINARY
P.T.	-	PRESSURE TREATED
PROJ.	-	PROJECTION
QTY.	-	QUANTITY
R	-	RADIUS
REINF.	-	REINFORCE(ING)(ED)(MENT)
RCP	-	REINFORCED CONCRETE PIPE
REM.	-	REMAINDER
REQ.	-	REQUIRE
REQ'D.	-	REQUIRED
RET. SYS.	-	RETENTION SYSTEM
RIS.	-	RISER
RF.	-	ROOF
R.D.	-	ROOF DRAIN
R.T.U.	-	ROOF TOP UNIT
RM.	-	ROOM
R.O.	-	ROUGH OPENING
RND.	-	ROUND
SCHED.	-	SCHEDULE(D)
SECT.	-	SECTION
V.	-	SHEAR
SHT.	-	SHEET
SSL.	-	SHORT SLOTTED HOLE
SW	-	SIDEWALK
SIM.	-	SIMILAR
S.O.G.	-	SLAB ON GRADE
SPA.	-	SPACE
SPEC(S)	-	SPECIFICATION(S)
SPEC'D	-	SPECIFIED
SQ.	-	SQUARE
S.F.	-	SQUARE FOOT
STAGG.	-	STAGGERED
S.S.	-	STAINLESS STEEL
STD.	-	STANDARD
STL.	-	STEEL
S.J.I.	-	STEEL JOIST INSTITUE
STIFF.	-	STIFFENER
STIRR.	-	STIRRUPS
STR.	-	STRAIGHT
STRUCT'L	-	STRUCTURAL
STRUCT.	-	STRUCTURE
SUBCONTR.	-	SUBCONTRACTOR
SUPT(S).	-	SUPPORT(S)
TEMP.	-	TEMPERATURE
T	-	TENSION
TERR.	-	TERRAZZO
THK.	-	THICK
THRD.	-	THREAD(ED)
T&G	-	TONGUE AND GROOVE
T&B	-	TOP AND BOTTOM
T.O.	-	TOP OF
T.O.B.	-	TOP OF BEAM
T.O.C.	-	TOP OF CONCRETE
T.O.F.	-	TOP OF FOOTING
T.O.J.	-	TOP OF JOIST
T.O.P.	-	TOP OF PIER
T.O.P.C.	-	TOP OF PIER (PILE) CAP
T.O.S.	-	TOP OF STEEL
T.O.W.	-	TOP OF WALL
TRANSV.	-	TRANSVERSE
TR.	-	TREAD
TYP.	-	TYPICAL
U.N.O.	-	UNLESS NOTED OTHERWISE
VERT.	-	VERTICAL
V.B.	-	VERTICAL BRACE
WPFG.	-	WATERPROOFING
WS.	-	WATERSTOP
WT.	-	WEIGHT
W.W.M.	-	WELDED WIRE MESH
W.	-	WIDTH
W.L.	-	WIND LOAD
WDW.	-	WINDOW
W/	-	WITH
W/O	-	WITHOUT
W.D.	-	WOOD
W.P.	-	WORK POINT

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:CT
ISSUED FOR: 100% CD	DRAFTER: NR
ISSUE DATE: 06.13.2022	CHECKED: CT

STRUCTURAL NOTES

SHEET
S0-02

6/13/22

shaping the built environment
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TBPE FIRM F-7986

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SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Chapter 17 of the 2021 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.

VERIFICATION AND INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL[1] (AISC 360-10 Table N5.4)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to welding:				
YES	a. Welding procedure specifications (WPSs) available	X	--	AISC 360-10 N5.4-1: AWS D1.1	1705.2.1
YES	b. Manufacturer certifications for welding consumables available	X	--		
YES	c. Material identification (type/grade)[3]	--	X		
YES	d. Welder identification system[2]	--	X		
YES	e. Fit-up of groove welds (including joint geometry)[2] 1) Joint preparation 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location) 5) Backing type and fit (if applicable)	--	X		
YES	f. Configuration and finish of access holes[2]	--	X		
YES	g. Fit-up of fillet welds[2] 1) Dimensions (alignment, gaps at root) 2) Cleanliness (condition of steel surfaces) 3) Tacking (tack weld quality and location)	--	X		
YES	h. Check welding equipment	--	X		
	2. Inspection tasks during welding:				
YES	a. Use of qualified welders	--	X	AISC 360-10 N5.4-2: AWS D1.1	1705.2.1
YES	b. Control and handling of welding consumables[2] 1) Packaging 2) Exposure control	--	X		
YES	c. No welding over cracked tack welds[2]	--	X		
YES	d. Environmental conditions[2] 1) Wind speed within limits 2) Precipitation and temperature	--	X		
YES	e. WPS followed[2] 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min./max.) 7) Proper position (F, V, H, OH)	--	X		
YES	f. Welding techniques[2] 1) Interpass and final cleaning 2) Each pass within profile limitations 3) Each pass meets quality requirements	--	X		
	3. Inspection tasks after welding:				
YES	a. Welds cleaned	--	X	AISC 360-10 N5.4-2: AWS D1.1	1705.2.1
YES	b. Size, length and location of welds	X	--		
YES	c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity	X	--		
YES	d. Arc strikes	X	--		
NO	e. k-area[3]	X	--		
NO	f. Backing removed and weld tabs removed (if required)	X	--		
YES	g. Repair activities	X	--		
YES	h. Document acceptance or rejection of welded joint or member	X	--		

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-10 Section N5 and assigned to the Quality Control Inspector (QCI)

2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

3. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.

VERIFICATION AND INSPECTION TASKS FOR BOLTING STRUCTURAL STEEL[1] (AISC 360-10 Tables N5.6)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to bolting:				
YES	a. Manufacturer's certifications available for fastener materials	X	--	AISC 360-10 N5.6-1	1705.2.1
YES	b. Fasteners marked in accordance with ASTM requirements	--	X		
YES	c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)[2]	--	X		
YES	d. Proper bolting procedure selected for joint detail[2]	--	X		
YES	e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	--	X		
YES	f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	--	X		
YES	g. Proper storage provided for bolts, nuts, washers and other fastener components	--	X		
	2. Inspection tasks during bolting:				
YES	a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required[2]	--	X	AISC 360-10 N5.6-2	1705.2.1
YES	b. Joint brought to the snug-tight condition prior to the pretensioning operation[2]	--	X		
YES	c. Fastener component not turned by the wrench prevented from rotating[2]	--	X		
NO	d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	--	X		
	3. Inspection tasks after bolting:				
YES	a. Document acceptance or rejection of bolted connections	X	--	AISC 360-10 N5.6-3	1705.2.1

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-10 Section N5 and assigned to the Quality Control Inspector (QCI)

2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Cold-formed steel deck:				
YES	a. Floor and roof deck welds	--	X	SDI QA/QC	1705.2.2

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Inspection of reinforcing steel, including prestressing tendons, and placement.	--	X	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
	2. Reinforcing bar welding:				
YES	a. Verify weldability of reinforcing bars other than ASTM A706	--	X	AWS D1.4 ACI 318: 26.5.4	--
YES	b. Inspect single-pass fillet welds, maximum 5/16"	--	X		
YES	c. Inspect all other welds.	X	--		
YES	3. Inspection of anchors cast in concrete.	--	X	ACI 318: 17.8.2	--
	4. Inspection of post-installed anchors in hardened concrete.				
YES	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	--	ACI 318: 17.8.2.4	--
YES	b. Mechanical anchors and adhesive anchors not defined in 4.a.	--	X	ACI 318: 17.8.2	
YES	Special Inspector must be certified by ACI/CRSI "Adhesive Anchor Installer. A report must be submitted to the licensed design professional and building official documenting, stating how each anchor was installed, including the Manufacturer's Printed Installation Instructions per ACI 318	--	--	ACI 318: 17.8.2.2 17.8.2.4	
YES	5. Verify use of required design mix.	--	X	ACI 316: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
YES	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	--	ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12	1908.10
YES	7. Inspect concrete and shotcrete placement for proper application techniques.	X	--	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
YES	8. Verify maintenance of specified curing temperature and techniques.	--	X	ACI 318: 26.4.7-26.4.9	1908.9
	9. Inspection of prestressed concrete:				
NO	a. Application of prestressing forces	X	--	ACI 318: 26.9.2.1	--
NO	b. Grouting of bonded prestressing tendons	X	--	ACI 318: 26.9.2.3	
NO	10. Inspect erection of precast concrete members.	--	X	ACI 318: 26.8	--
YES	11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	--	X	ACI 318: 26.10.2	--
YES	12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	--	X	ACI 318: 26.10.1(b)	--

LEVEL B VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (ACI 530 Table 3.1.2)

SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
	MINIMUM TESTS		
YES	Verification of Slump flow and VSI as delivered to the site in accordance with Article 1.5 B.1.b.3 for self-consolidating grout	--	--
YES	Verification of f'_m and f'_{AAC} in accordance with Article 1.4B prior to construction, except where specifically exempted by this Code	--	--
	INSPECTION TASKS		
YES	1. Verify compliance with the approved submittal	--	X
	2. As masonry construction begins, verify that the following are in compliance:		
YES	a. Proportions of site-prepared mortar	--	X
YES	b. Construction of mortar joints	--	X
NO	c. Grade and size of prestressing tendons and anchorages	--	X
YES	d. Location of reinforcement, connectors, and prestressing tendons and anchorages	--	X
NO	e. Prestressing technique	--	X
NO	f. Properties of thin-bed mortar for AAC masonry	X [1]	X [2]
	3. Prior to grouting, verify that the following are in compliance:		
YES	a. Grout space	--	X
YES	b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	--	X
YES	c. Placement of reinforcement, connectors and prestressing tendons and anchorages	--	X
YES	d. Proportions of site-prepared grout and prestressing grout for bonded tendons	--	X
YES	e. Construction of mortar joints	--	X
	4. Verify during construction:		
YES	a. Size and location of structural elements	--	X
YES	b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction	--	X
YES	c. Welding of reinforcement	X	--
YES	d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	--	X
NO	e. Application and measurement of prestressing force	X	--
YES	f. Placement of grout and prestressing grout for bonded tendons is in compliance	X	--
NO	g. Placement of AAC masonry units and construction of thin-bed mortar joints	X [1]	X [2]
YES	5. Observe preparation of grout specimens, mortar specimens and/or prisms	--	X

1. Required for the first 5,000 square feet of AAC masonry.

2. Required after the first 5,000 square feet of AAC masonry.

VERIFICATION AND INSPECTION OF SOILS (IBC TABLE 1705.6)

SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	--	X
YES	2. Verify excavations are extended to proper depth and have reached proper material.	--	X
YES	3. Perform classification and testing of compacted fill materials.	--	X
YES	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	--
YES	5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	--	X

VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (IBC TABLE 1705.8)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Inspect drilling operations and maintain complete and accurate records for each element.	X	--
YES	2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes.	X	--
YES	3. For concrete elements, perform additional inspections in accordance with IBC 2015 Section 1705.3	--	--

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F | MANAGER: CT
ISSUED FOR: 100% CD | DRAFTER: NR
ISSUE DATE: 06.13.2022 | CHECKED: CT

SPECIAL INSPECTIONS

SHEET
S0-03

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6/13/22
STATE OF TEXAS CARLO N. TADDEI 96612 LICENSED PROFESSIONAL ENGINEER

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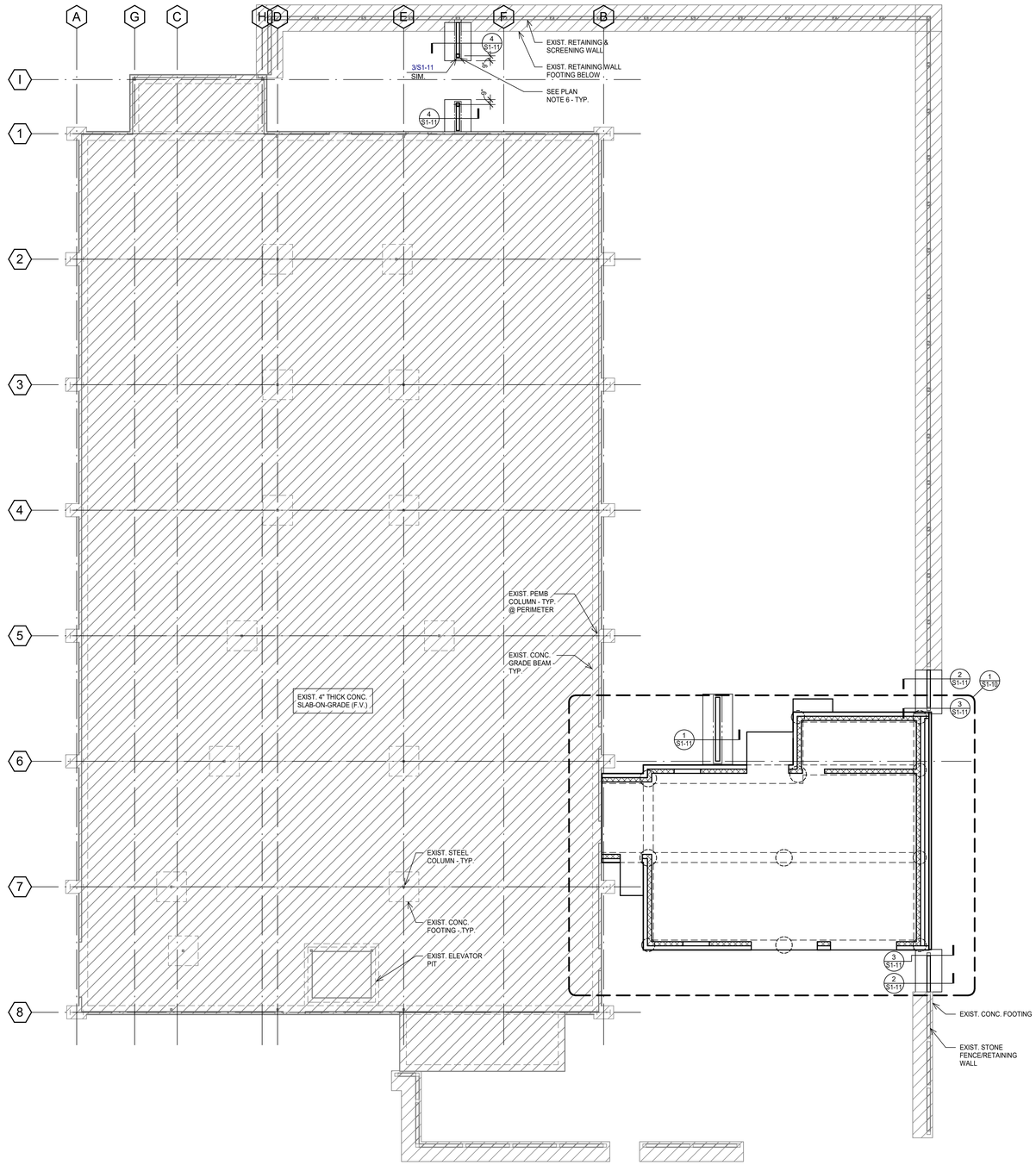

north

1 OVERALL FOUNDATION PLAN

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

PLAN NOTES:

1. SEE ENLARGED PLANS FOR ADDITIONAL PLAN NOTES AND INFORMATION.
2. SEE DETAIL S/S3-02 FOR TRENCHING OF THE EXISTING BUILDING SLAB-ON-GRADE (F.V.).
3. DO NOT CUT THROUGH EXISTING GRADE BEAMS OR FOOTINGS.
4. DO NOT DIG BELOW OR DISTURB EXISTING GRADE BEAMS OR FOOTINGS.
5. ANY HORIZONTAL PENETRATIONS THROUGH EXISTING GRADE BEAMS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO CORING. VERTICAL PENETRATIONS THROUGH EXISTING GRADE BEAMS OR FOOTINGS ARE PROHIBITED.
6. SEE ARCHITECTURAL FOR DIMENSIONAL LAYOUT, EXTENTS, HEIGHT AND ADDITIONAL INFORMATION FOR THE STONE FENCE.

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OVERALL FOUNDATION PLAN

SHEET

S1-01

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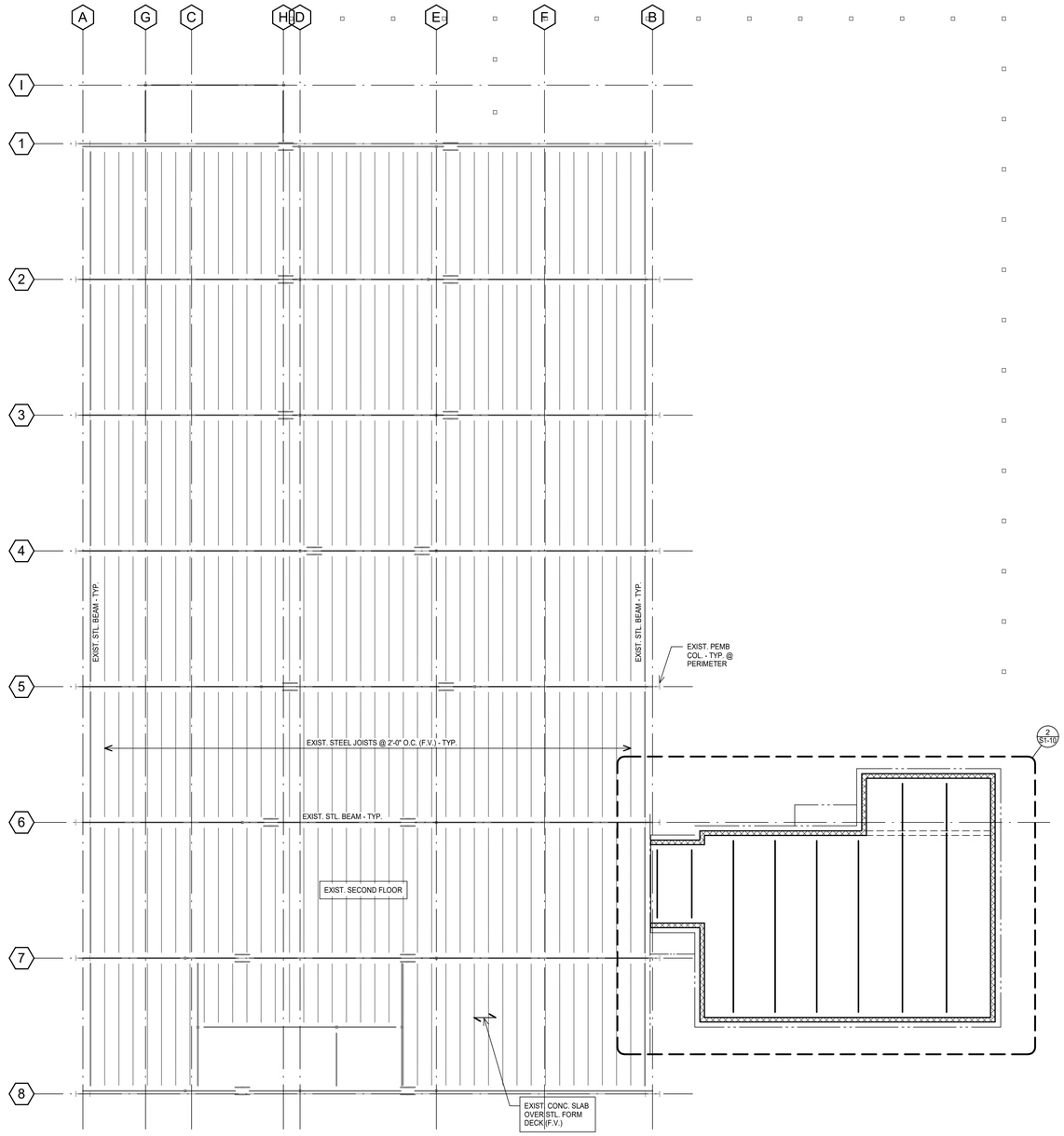

north

1 OVERALL ROOF FRAMING PLAN

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

PLAN NOTES:

1. SEE ENLARGED PLANS FOR PLAN NOTES AND ADDITIONAL INFORMATION.
2. DO NOT CUT THROUGH EXISTING FRAMING.
3. ANY PENETRATIONS THROUGH THE EXISTING SLAB SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.

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OVERALL ROOF FRAMING PLAN

SHEET

S1-02

6/13/22

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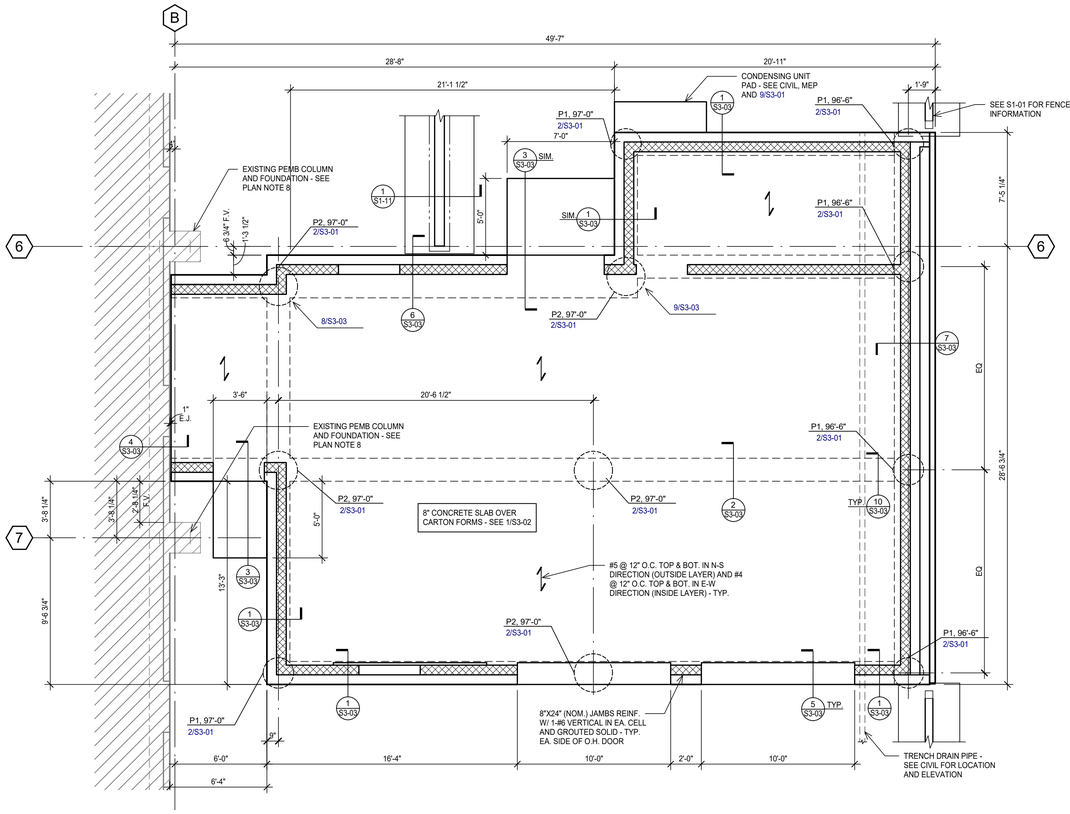

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1 ENLARGED FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

PLAN NOTES:

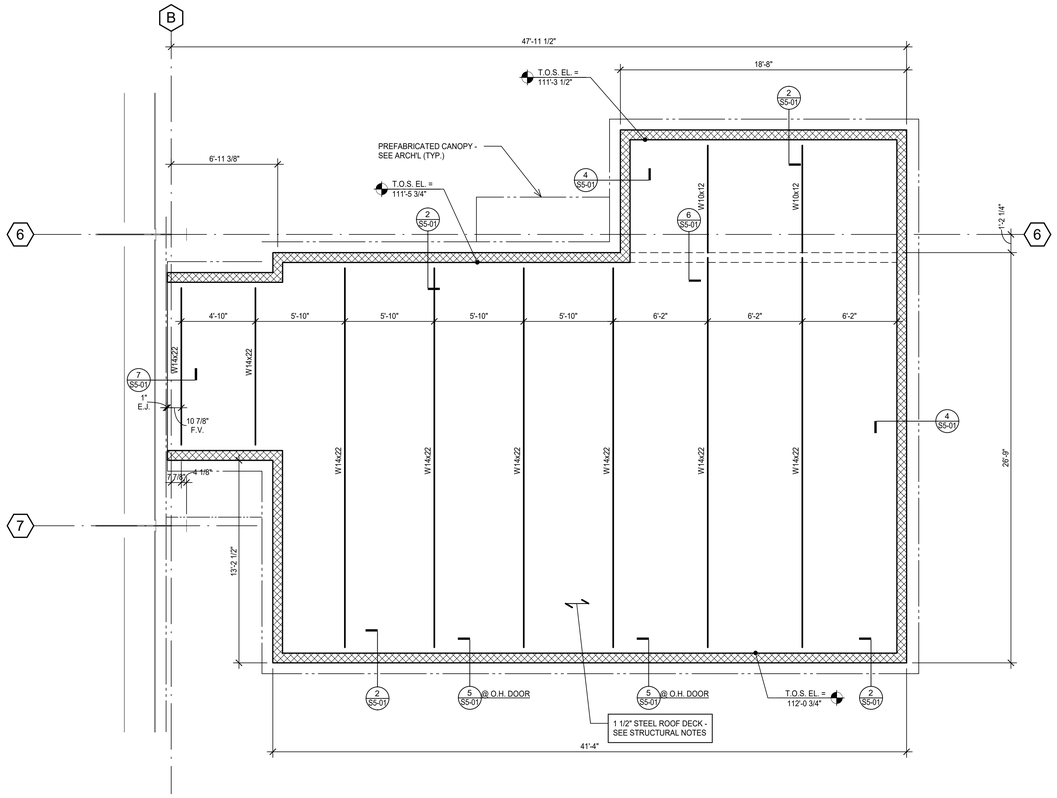
1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 661.10' = 100'-0". FIELD VERIFY EXISTING FINISH FLOOR ELEVATION AT BUILDING TIE-IN LOCATION. FINISH FLOOR OF NEW ADDITION IS TO MATCH EXISTING. NOTIFY THE ARCHITECT OF ANY DIFFERENCES.
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.
   B. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
   C. COLUMNS EMBEDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.
6. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.
7. TYPICAL CONCRETE SLAB THICKNESS IS 8" (OVERALL), UNLESS NOTED OTHERWISE.
8. THE CONTRACTOR SHALL VERIFY THE EXISTING PEMB FOUNDATION TYPE, DIMENSIONS AND DEPTH AND NOTIFY THE ARCHITECT OF ANY CONFLICTS. EXERCISE CARE TO NOT DAMAGE THE EXISTING FOUNDATION OR DISTURB THE SOIL BELOW IF SHALLOW FOOTING FOUNDATIONS ARE ENCOUNTERED.
9. SHEET INDEX:

STRUCTURAL NOTES	-S0-01, S0-02
TYPICAL DETAILS	-S3-01, S3-02, S4-01, S4-02
PIER SCHEDULE	-S3-01

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.



north

2 ENLARGED ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
2. TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
3. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
4. STEEL BEAMS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
5. CONNECTION OF THE PREFABRICATED ALUMINUM CANOPIES TO THE CMU WALL (BEAMS AND TIE-BACKS) SHALL BE PROVIDED BY THE CANOPY MANUFACTURER.
6. SHEET INDEX:

STRUCTURAL NOTES	-S0-01, S0-02
TYPICAL DETAILS	-S4-01, S4-02, S5-01

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ENLARGED PLANS

SHEET
S1-10

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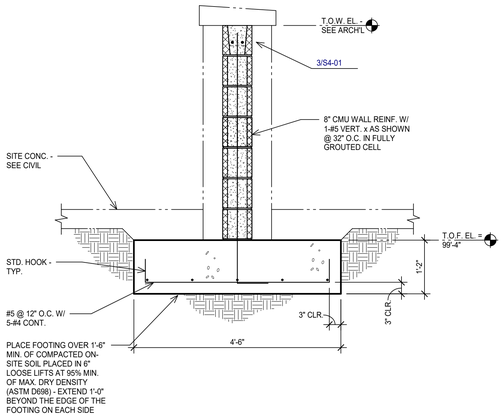
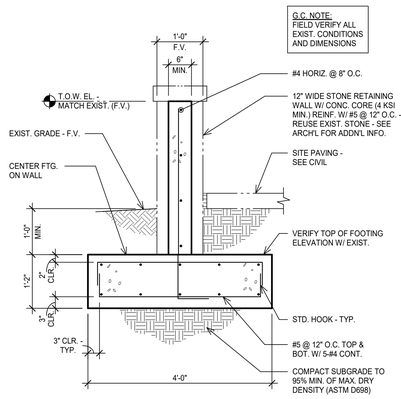
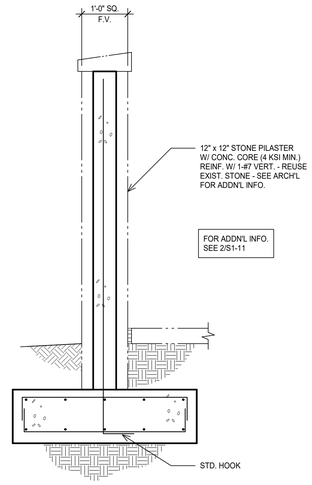


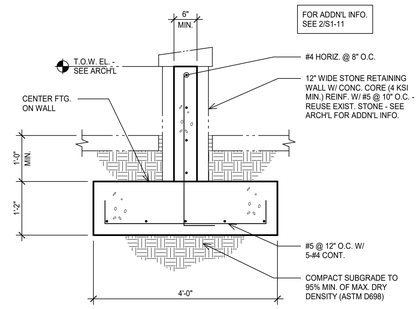
1 SCREEN WALL SECTION
SCALE: 3/4" = 1'-0"



2 SCREEN WALL SECTION
SCALE: 3/4" = 1'-0"



3 PILASTER SECTION
SCALE: 3/4" = 1'-0"



4 SCREEN WALL SECTION
SCALE: 3/4" = 1'-0"

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:Designer
ISSUED FOR: 100% CD	DRAFTER: Author
ISSUE DATE: 06/16/22	CHECKED: Checker

SITE DETAILS

SHEET
S1-11

6/13/22

shaping the built environment
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PROJECT NO: 4220013
TBPE FIRM F-7986

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STATE OF TEXAS

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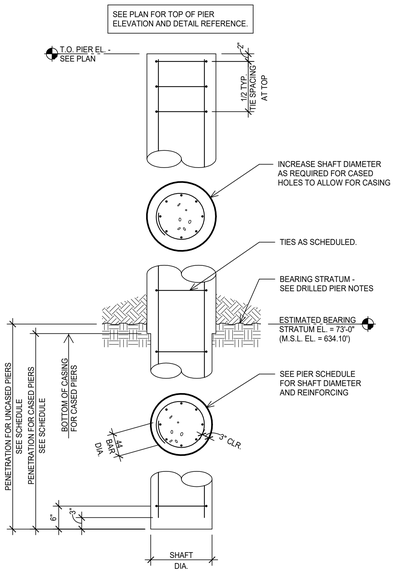
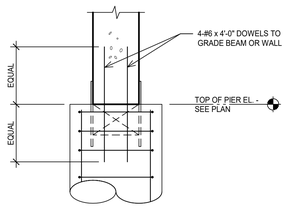


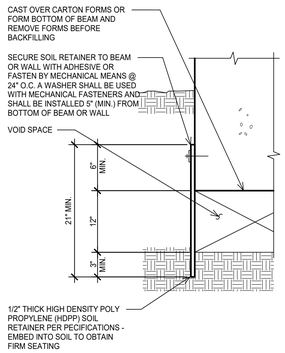
ELEVATION

PIER SCHEDULE - STRAIGHT SHAFT					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY (ASD)
P1	2'-0"	6-#8	#3 @ 12" O.C.	9'-0"	255 KIPS
P2	2'-6"	6-#8	#3 @ 14" O.C.	8'-0"	315 KIPS

1 TYPICAL CASED DRILLED PIER DETAIL
NO SCALE



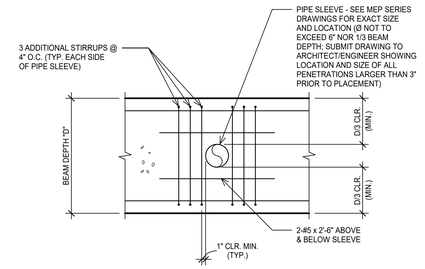
2 TYPICAL GRADE BEAM OR WALL TOP OF PIER DETAIL
NO SCALE



NOTES:

1. FORM ALL SIDES OF ALL BELOW GRADE BEAMS, WALLS, PILASTERS, AND PIER CAPS. EARTH FORMING IS NOT PERMITTED.
2. PLACE SOIL RETAINERS AT SIDES OF VOID SPACE UNDER ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE.
3. INSTALL SOIL RETAINERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:
   A. PLACE BASE OF SOIL RETAINER IN A 3" DEEP TRENCH CUT IN UNDISTURBED SOIL OR COMPACTED FILL.
   B. STARTING AT END OF BEAM OR WALL PANEL, LAY SOIL RETAINER IN TRENCH AND PLACE VERTICAL AGAINST BEAM OR WALL PANEL, OVERLAP ENDS OF ADJACENT SOIL RETAINERS 6" MIN. & SECURE TO BEAM OR WALL THROUGH OVERLAP
   C. CUT TO FIT ENDS OF BEAMS OR WALL PANELS. CUT LENGTHS LESS THAN 1'-0" IN LENGTH SHALL NOT BE USED.
   D. PLACE BACKFILL AS SPECIFIED AFTER COMPLETION OF SOIL RETAINER INSTALLATION. TAKE NECESSARY PRECAUTIONS TO PROTECT SOIL RETAINERS FROM DAMAGE FROM COMPACTION EQUIPMENT.
4. STORE RETAINERS FLAT AND PROTECTED FROM DIRECT SUNLIGHT TO AVOID WARPAGE.

3 TYPICAL HDPP SOIL RETAINER DETAIL
NO SCALE

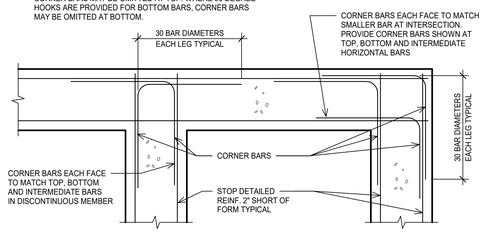


ELEVATION

4 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL
NO SCALE

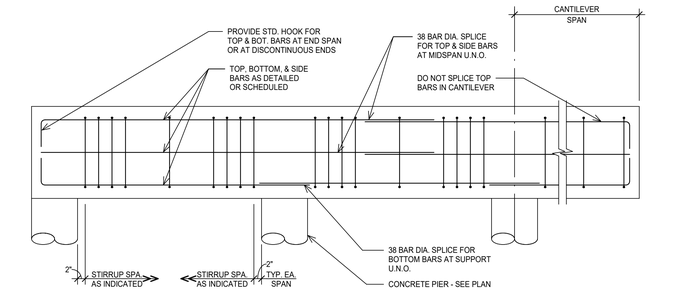
NOTES:

1. MATCH SIZE, LOCATION AND NUMBER OF HORIZONTAL BEAM AND WALL BARS, EXCEPT THAT WHERE THERE ARE MORE THAN 2 TOP OR BOTTOM BARS, ONLY THE INSIDE AND OUTSIDE BARS MUST BE MATCHED.
2. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR TOP BARS CORNER BARS MAY BE OMITTED AT TOP. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR BOTTOM BARS, CORNER BARS MAY BE OMITTED AT BOTTOM.



PLAN

5 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL
NO SCALE

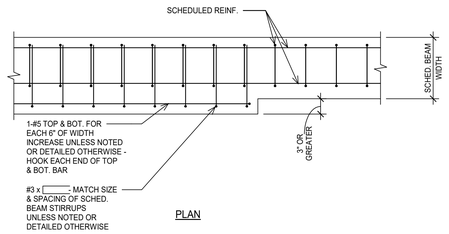


ELEVATION

NOTES:

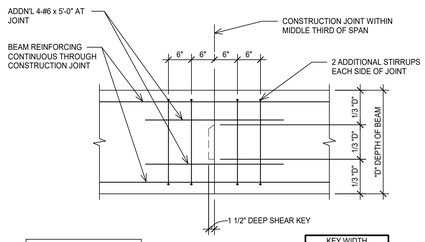
1. BAR SPLICE LENGTHS SHALL BE AS INDICATED UNLESS SCHEDULED OR NOTED OTHERWISE.

6 TYPICAL GRADE BEAM REINFORCING DETAIL
NO SCALE



PLAN

7 TYPICAL BEAM WITH VARYING WIDTH REINFORCING DETAIL
NO SCALE

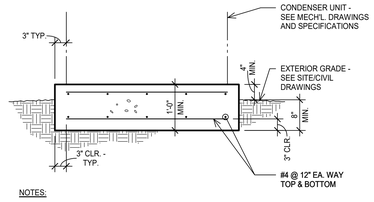


NOTES:
1. THIS DETAIL APPLIES TO BEAMS ≤ 4'-0" DEPTH.

ELEVATION

KEY WIDTH	
GRADEBEAM WIDTH "T"	W
≤ 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

8 TYPICAL CONCRETE BEAM CONSTRUCTION JOINT DETAIL
NO SCALE



NOTES:

1. COORDINATE ANY EMBEDDED ITEMS IN PAD W/ MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS.
2. VERIFY PAD DIMENSIONS WITH UNIT MANUFACTURER PRIOR TO CONSTRUCTION.
3. PAD SHALL BE PLACED ON UNDISTURBED EXISTING SOIL OR COMPACTED FILL.
4. SEE MEP, SITE AND/OR CIVIL DRAWINGS FOR PAD LOCATION.

9 CONDENSER UNIT PAD DETAIL
NO SCALE

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:CT
ISSUED FOR: 100% CD	DRAFTER: NR
ISSUE DATE: 06.13.2022	CHECKED: CT

TYPICAL CONCRETE DETAILS

SHEET
S3-01

shaping the built environment
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FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220013
TBPE FIRM F-7986

6/13/22

STATE OF TEXAS
CARLO N. TADDEI
96612
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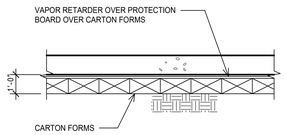
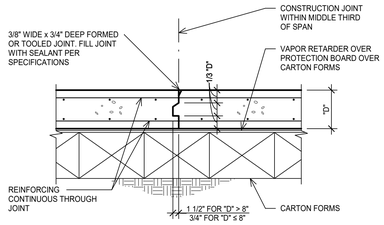
PROFESSIONAL ENGINEER

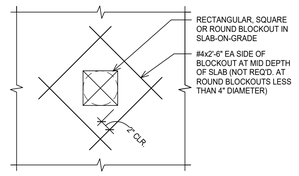


NOTE:
REPLACE CARTON FORMS THAT HAVE BEEN DAMAGED OR IF THEY BECOME SATURATED AND WEAK. TAKE SPECIAL CARE TO PREVENT CRUSHING OF CARTON FORMS DURING PLACEMENT OF REINFORCING AND CONCRETE.

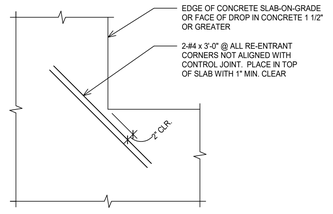
1 TYPICAL SLAB-ON-VOID DETAIL
NO SCALE



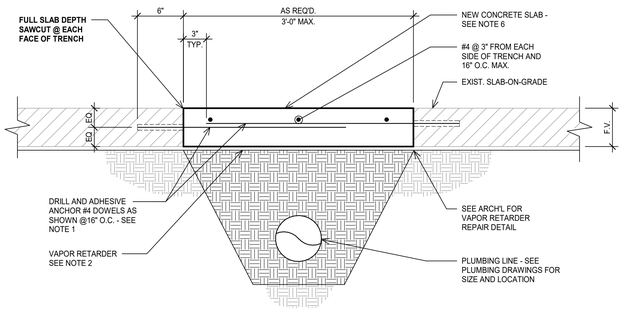
2 TYPICAL STRUCTURAL SLAB CONSTRUCTION JOINT DETAIL
NO SCALE



3 TYPICAL ADDITIONAL REINFORCING AT BLOCKOUT IN SLAB DETAIL
NO SCALE



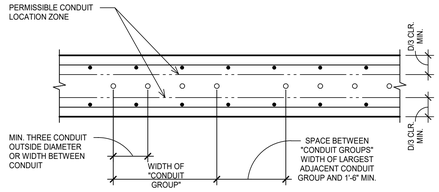
4 TYPICAL SLAB RE-ENTRANT CORNER REINFORCING DETAIL
NO SCALE



NOTES:

1. ADHESIVE ANCHORING SYSTEM SHALL BE HILTI "HIT-HY 200" OR SIMPSON "ACRYLIC-TIE". FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. VAPOR RETARDER SHALL MEET THE FOLLOWING PROPERTIES:
   a. 15 MIL MINIMUM THICKNESS
   b. MEET ASTM E 1745 CLASS A
   c. WATER VAPOR PERMEANCE PER ASTM E96 SHALL BE 0.01 OR LESS
3. LAP JOINTS IN VAPOR RETARDER 6" MIN. USE MANUFACTURER'S STANDARD ADHESIVE OR PRESSURE SENSITIVE TAPE FOR SEALING MEMBRANE AT SEAMS, PIPE PENETRATIONS, TEARS, ETC.
4. PROVIDE 2-#4x2'-0" DIAGONAL BARS AT RE-ENTRANT CORNERS IN SAWCUT. PLACE AT MID-DEPTH OF SLAB.
5. SOIL REMOVED FOR SLAB TRENCH SHALL BE REPLACED AND RECOMPACTED TO A MINIMUM OF 95% STANDARD PROCTER DENSITY (ASTM D698).
6. PLACE SLAB BACK TO THICKNESS TO MATCH EXISTING WITH A MINIMUM 3,000 PSI NORMAL WEIGHT CONCRETE AND A WATER-CEMENT RATIO OF 0.50 OR LESS.
7. THE CONTRACTOR SHALL ENSURE THAT TRENCHING FOR THE UTILITY LINE IS NOT OVER-EXCAVATED AND THAT NO PORTION OF THE SURROUNDING SLAB-ON-GRADE IS LEFT UNSUPPORTED.
8. CONTRACTOR SHALL PROVIDE A COLD JOINT EVERY 30 LINEAR FEET IN THE PORTION OF NEW CONCRETE SLAB THAT IS PLACED DUE TO UNDER-SLAB TRENCHING.

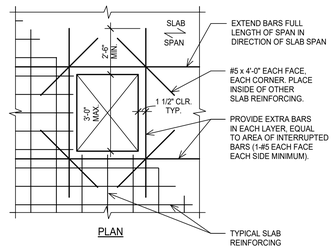
5 TYPICAL TRENCH DETAIL FOR UNDER-SLAB PLUMBING LINES
NO SCALE



NOTES:

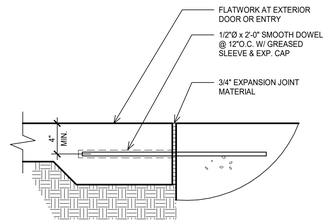
1. NOT MORE THAN FIVE CONDUITS SHALL BE PLACED WITHIN A "CONDUIT GROUP" WITH THREE CONDUIT DIAMETERS OR WIDTHS OF LARGEST CONDUIT CENTER TO CENTER BETWEEN INDIVIDUAL CONDUITS, MINIMUM 6" CLEAR.
2. PROVIDE EMBEDDED ITEM FREE SPACE BETWEEN "CONDUIT GROUPS" EQUALING TO OR EXCEEDING THE WIDTH OF THE LARGEST ADJACENT CONDUIT GROUP. MINIMUM SPACE BETWEEN CONDUIT GROUPS SHALL NOT BE LESS THAN 1'-6".
3. CONDUITS SHALL NOT BE PLACED WITHIN A ZONE 1'-6" FROM FACE OF SUPPORTS.
4. CONDUITS CANNOT BE SECURED TO SCHEDULED SLAB/BEAM REINFORCING.
5. CONDUITS, WHEN PENETRATING A BEAM, SHALL PENETRATE AT A 90° ANGLE TO THE LONGITUDINAL AXIS OF THE BEAM.
6. CONDUIT PLACEMENT SHALL BE PLANNED TO MINIMIZE THE NUMBER OF CROSS OVERS REQUIRED. TOTAL HEIGHT OF CONDUITS SHALL BE LIMITED TO 1/3 THE SLAB THICKNESS. CONDUIT CROSS OVER SHALL OCCUR WITHIN THE MIDDLE THIRD OF THE SLAB.

6 TYPICAL CONDUITS EMBEDDED IN CONCRETE SLAB DETAIL
NO SCALE



NOTE:
EXTRA BARS MAY BE OMITTED WHERE SIDES OF OPENING ARE FRAMED BY BEAMS.

7 TYPICAL REINFORCEMENT AT CONCRETE SLAB OPENING DETAIL
NO SCALE



8 TYPICAL FLATWORK AT EXTERIOR DOORS AND ENTRIES DETAIL
NO SCALE

DOWEL SCHEDULE			
		B	
A			
MARK	SIZE	A	B
DWL-A	#4	8"	3'-0"
DWL-B	#4	3'-0"	3'-0"
DWL-C	#4	-	4'-0"
DWL-D	3/4" DIA. THD.	-	4'-0"
DWL-E	1/2" DIA. THD.	-	3'-0"

NOTES:

1. SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT UNLESS NOTED OTHERWISE ON DETAILS.
3. DOWELS WITH "THD." IN "SIZE" COLUMN SHALL BE RICHMOND "CONTINUOUS THREADED LAGSTUD (2/25)" WITH RICHMOND "STANDARD 1/2"x4" 2/15 ANCHOR W/ WASHER" FOR 1/2" DIA. DOWELS AND "STANDARD 3/4"x6" 2/15 ANCHOR W/ WASHER" ANCHORS FOR 3/4"Ø DOWELS OR EQUAL.

9 DOWEL SCHEDULE
NO SCALE

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PROJECT #: 21063-00F	MANAGER: CT
ISSUED FOR: 100% CD	DRAFTER: NR
ISSUE DATE: 06.13.2022	CHECKED: CT

TYPICAL CONCRETE DETAILS

SHEET
S3-02

6/13/22

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PROJECT NO: 4220013 TBPE FIRM F-7986
CARLO N. TADDEI 96612 LICENSED PROFESSIONAL ENGINEER

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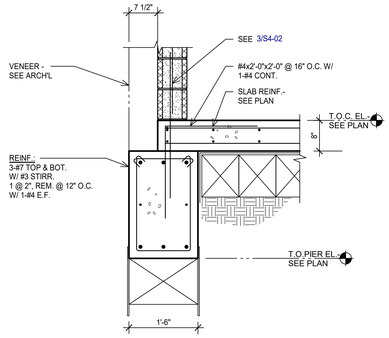
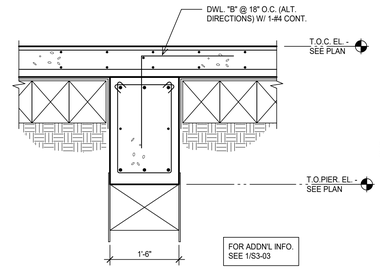
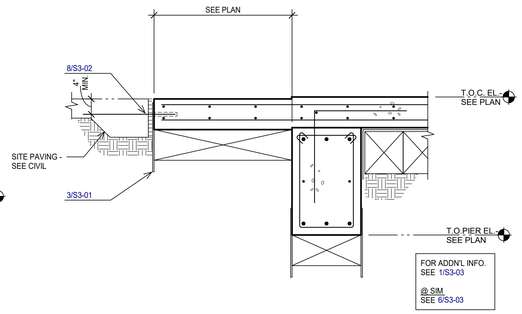


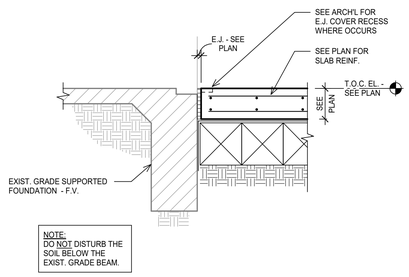
1 TYPICAL GRADE BEAM SECTION
SCALE: 3/4" = 1'-0"



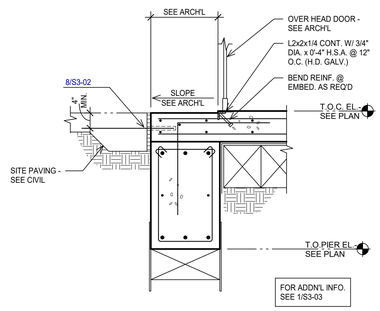
2 SECTION
SCALE: 3/4" = 1'-0"



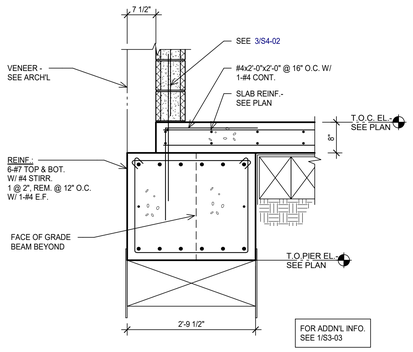
3 SECTION
SCALE: 3/4" = 1'-0"



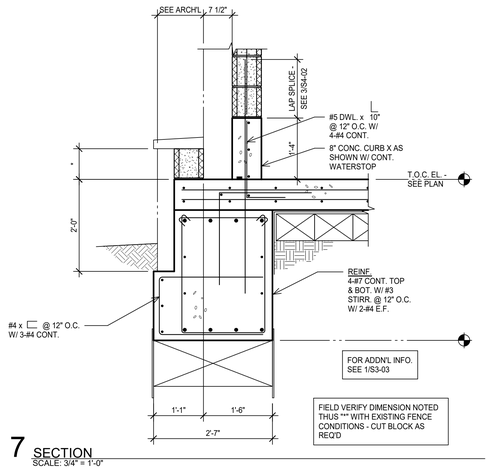
4 SECTION
SCALE: 3/4" = 1'-0"



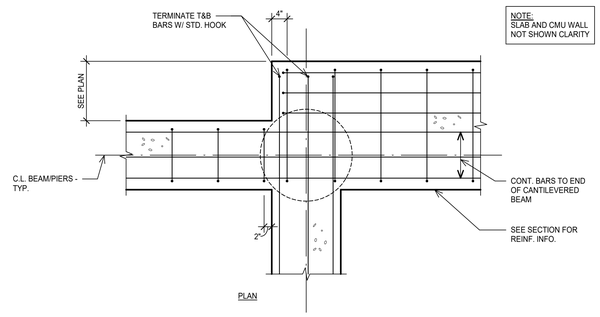
5 SECTION
SCALE: 3/4" = 1'-0"



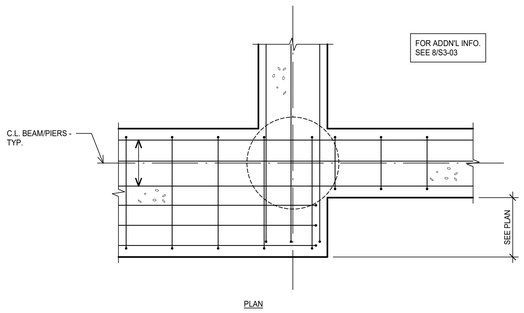
6 SECTION
SCALE: 3/4" = 1'-0"



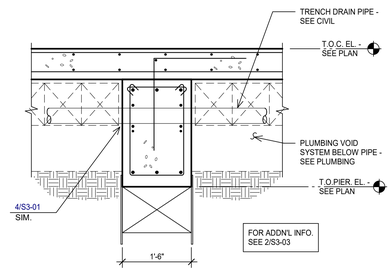
7 SECTION
SCALE: 3/4" = 1'-0"



8 DETAIL
SCALE: 3/4" = 1'-0"



9 DETAIL
SCALE: 3/4" = 1'-0"



10 SECTION
SCALE: 3/4" = 1'-0"

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:Designer
ISSUED FOR: 100% CD	DRAFTER: Author
ISSUE DATE: 06.13.2022	CHECKED: Checker

CONCRETE SECTIONS

SHEET
S3-03

shaping the built environment
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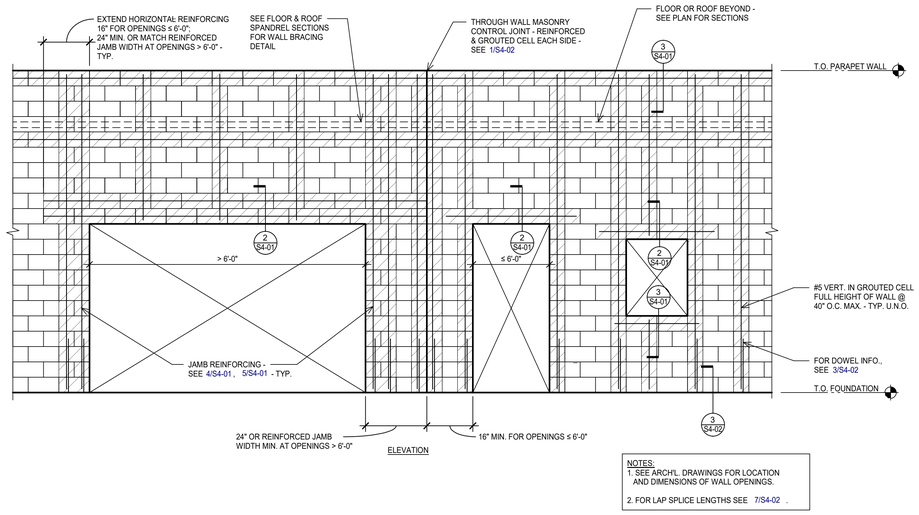
PROJECT NO: 4220013 TBPE FIRM F-7986

6/13/22
STATE OF TEXAS
CARLO N. TADDEI
96612
LICENSED PROFESSIONAL ENGINEER

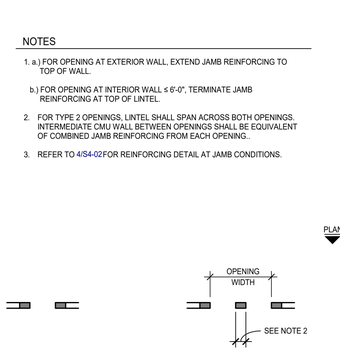


NOTES:
1. SEE ARCH'L. DRAWINGS FOR LOCATION AND DIMENSIONS OF WALL OPENINGS.
2. FOR LAP SPLICE LENGTHS SEE 7/S4-02 .

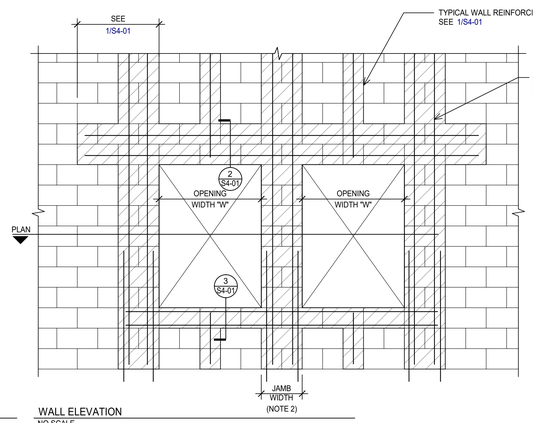
1 TYPICAL EXTERIOR CMU WALL REINFORCING DETAIL
NO SCALE

NOTES

1. a.) FOR OPENING AT EXTERIOR WALL, EXTEND JAMB REINFORCING TO TOP OF WALL.
   b.) FOR OPENING AT INTERIOR WALL ≤ 6'-0", TERMINATE JAMB REINFORCING AT TOP OF LINTEL.
2. FOR TYPE 2 OPENINGS, LINTEL SHALL SPAN ACROSS BOTH OPENINGS. INTERMEDIATE CMU WALL BETWEEN OPENINGS SHALL BE EQUIVALENT OF COMBINED JAMB REINFORCING FROM EACH OPENING..
3. REFER TO 4/S4-02FOR REINFORCING DETAIL AT JAMB CONDITIONS.



PLAN
NO SCALE

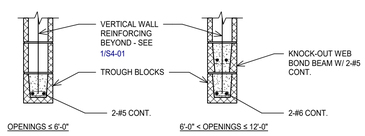


WALL ELEVATION
NO SCALE

JAMB WIDTH & REINFORCING SCHEDULE					
WALL HEIGHT BETWEEN SUPPORTS *	CLEAR OPENING SIZE (W)				
	< 8'-0"	<10'-0"	<12'-0"	<14'-0"	<16'-8"
≤10'-0"	8" / 2-#5	8" / 2-#5	8" / 2-#5	8" / 2-#5	16" / 4-#6
≤12'-0"	8" / 2-#5	8" / 2-#5	8" / 2-#6	16" / 4-#6	16" / 4-#6
≤14'-0"	8" / 2-#6	8" / 2-#7	16" / 4-#5	16" / 4-#6	24" / 6-#6
≤16'-0"	16" / 4-#6	16" / 4-#6	16" / 4-#6	16" / 4-#7	24" / 6-#7
≤18'-0"	16" / 4-#6	16" / 4-#6	24" / 6-#6	24" / 6-#7	32" / 8-#7

* SUPPORTS ARE DEFINED AS FLOORS, ROOFS, GIRTS, ETC. THAT ARE CONNECTED TO THE WALL WHICH BRACE THE WALL OUT OF PLANE.

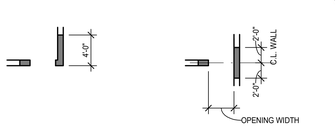
2 TYPICAL CMU LINTEL DETAIL
NO SCALE



NOTES:
1. LINTELS SHALL REMAIN SHORED UNTIL MASONRY CONSTRUCTION ABOVE HAS CURED FOR A MINIMUM OF 14 DAYS.
2. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZE AND LOCATION.
3. VERTICAL CONTROL JOINTS SHALL NOT CROSS LINTEL REINFORCING.

NOTES

1. a.) FOR OPENING AT EXTERIOR WALL, EXTEND JAMB REINFORCING TO TOP OF WALL.
   b.) FOR OPENING AT INTERIOR WALL ≤ 6'-0", TERMINATE JAMB REINFORCING AT TOP OF LINTEL.
2. FOR REINFORCING DETAIL AT JAMB CONDITIONS SEE 4/S4-02

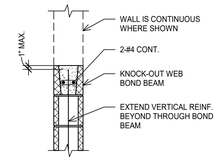


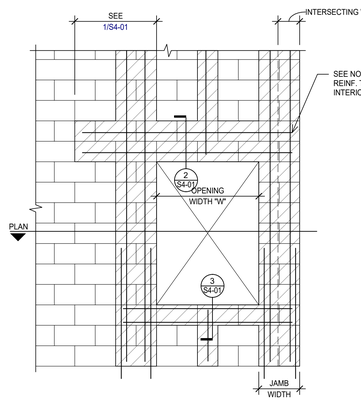
PLAN
NO SCALE

JAMB WIDTH & REINFORCING SCHEDULE					
WALL HEIGHT BETWEEN SUPPORTS *	CLEAR OPENING SIZE (W)				
	< 8'-0"	<10'-0"	<12'-0"	<14'-0"	<16'-8"
≤10'-0"	8" / 2-#5	8" / 2-#5	8" / 2-#5	8" / 2-#5	16" / 4-#6
≤12'-0"	8" / 2-#5	8" / 2-#5	8" / 2-#6	16" / 4-#6	16" / 4-#6
≤14'-0"	8" / 2-#6	8" / 2-#7	16" / 4-#5	16" / 4-#6	24" / 6-#6
≤16'-0"	16" / 2-#7	16" / 4-#6	16" / 4-#6	16" / 4-#7	24" / 6-#7
≤18'-0"	16" / 2-#7	16" / 4-#6	24" / 6-#6	24" / 6-#7	32" / 8-#7

* SUPPORTS ARE DEFINED AS FLOORS, ROOFS, GIRTS, ETC. THAT ARE CONNECTED TO THE WALL WHICH BRACE THE WALL OUT OF PLANE.

3 TYPICAL CMU BOND BEAM DETAIL
NO SCALE





WALL ELEVATION
NO SCALE

4 CMU WALL JAMB REINFORCING DETAIL
NO SCALE

5 CMU WALL JAMB REINFORCING DETAIL - CORNER & TEE-CONDITIONS
NO SCALE

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

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FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:CT
ISSUED FOR: 100% CD	DRAFTER: NR
ISSUE DATE: 06.13.2022	CHECKED: CT

TYPICAL MASONRY DETAILS

SHEET
S4-01

6/13/22

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PROJECT NO: 4220013 TBPE FIRM F-7986

CARLO N. TADDEI 96612 LICENSED PROFESSIONAL ENGINEER

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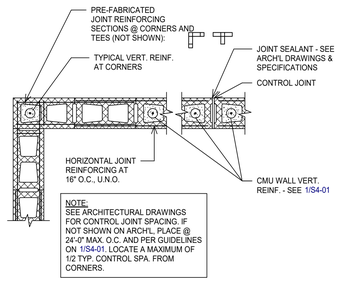
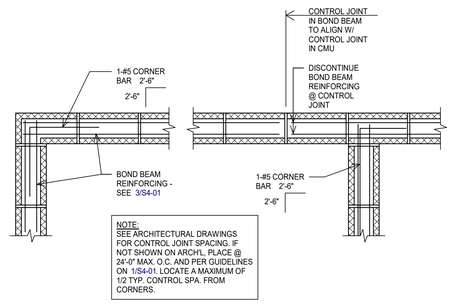
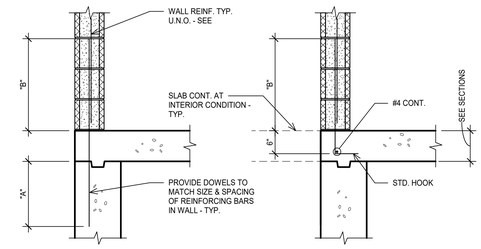
8:19/2022 10:20:32 AM



1 TYPICAL CMU BAR PLACEMENT DETAIL
NO SCALE



2 TYPICAL CORNER BARS AT BOND BEAMS DETAIL
NO SCALE

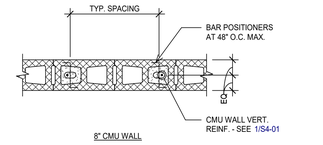


NOTES:

1. AT WALLS WITH DOUBLE REINFORCING, PROVIDE SINGLE DOWEL AT SIZE AND SPACING OF SCHEDULED WALL REINFORCING. CENTER DOWEL ON WALL, U.N.O.
2. MASONRY DOWELS SHALL BE TIED IN OR DRILLED AND ADHERED. MASONRY DOWELS SHALL NOT BE "STABBED" IN.

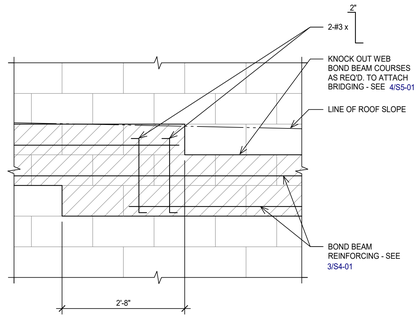
DOWEL SIZE	DIMENSIONS	
	"A"	"B"
#4	1'-6"	2'-6"
#5	1'-6"	3'-2"
#6	2'-0"	3'-9"
#7	2'-6"	4'-5"

3 TYPICAL MASONRY WALL DOWEL DETAIL
NO SCALE

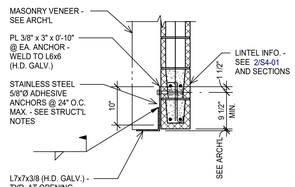


PROVIDE BAR POSITIONERS AT TOP AND BOTTOM OF LAP SPLICES AND AT 48" O.C. MAX. VERTICALLY.

4 TYPICAL CMU BAR PLACEMENT DETAIL
NO SCALE



5 TYPICAL STEP IN BOND BEAM DETAIL
NO SCALE



NOTES:

1. FOR VENEER SUPPORT AT OPENINGS EQUAL TO OR LESS THAN 6'-0" PROVIDE LOOSE LINTEL ANGLES PER 8/S4-02
2. ADHESIVE ANCHORS SHALL NOT BE INSTALLED WITHIN 2" OF A MASONRY HEAD JOINT.
3. STEEL LEDGE ANGLE LENGTH SHALL BE LIMITED TO 20'-0". PROVIDE 3/8" CONTROL JOINT BETWEEN LEDGE ANGLE SECTIONS.

6 TYPICAL MASONRY VENEER SUPPORT AT CMU BACK-UP DETAIL
NO SCALE

CMU WALL LAP SPLICE SCHEDULE		
BAR SIZE	LAP LENGTH	
	BOND BEAMS	VERTICAL REINF.
#4	1'-8"	2'-6"
#5	2'-1"	3'-2"
#6	2'-6"	4'-5"
#7	2'-11"	MECH'L SPLICE
#8	3'-4"	MECH'L SPLICE

NOTES:

1. SPLICES FOR VERTICAL REINF. SHALL BE STAGGERED IN ADJACENT CELLS SO THAT NO MORE THAN 1/2 OF ALL BARS ARE SPLICED AT THE SAME LOCATION.
2. DO NOT SPLICE BARS IN LINTELS.

7 CMU WALL LAP SPLICE SCHEDULE
NO SCALE

MASONRY LOOSE LINTEL SCHEDULE	
OPENING	LINTEL SIZE
UP TO 5'-0"	L4x4x1/4
5'-0" TO 7'-0"	L6x4x5/16 LLV
7'-0" TO 8'-0"	L6x4x3/8 LLV

NOTE:

1. LINTEL ANGLES SHALL BE HOT DIP GALVANIZED.
2. PROVIDE 3/8" GAP IN MORTAR AT ENDS OF ANGLE. FORM GAP WITH BACKER ROD.
3. PROVIDE 4" BEARING AT EACH END OF LINTEL ANGLE.

8 MASONRY LOOSE LINTEL SCHEDULE
NO SCALE

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MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

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FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:CT
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ISSUE DATE: 06.13.2022	CHECKED: CT

TYPICAL MASONRY DETAILS

SHEET
S4-02

6/13/22

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PROJECT NO: 4220013
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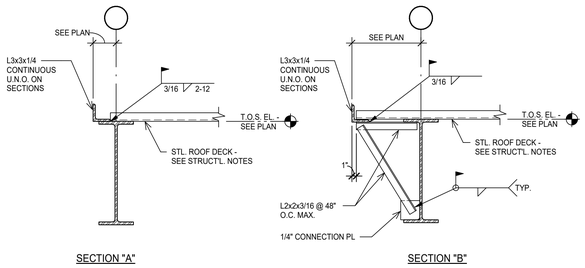
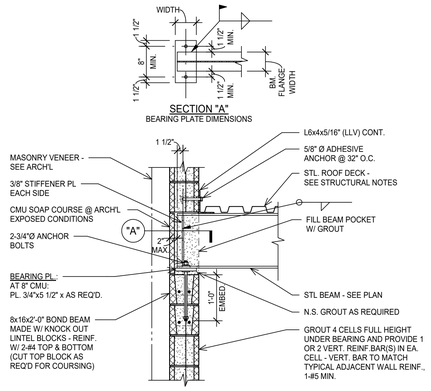


SECTION "A" SECTION "B"

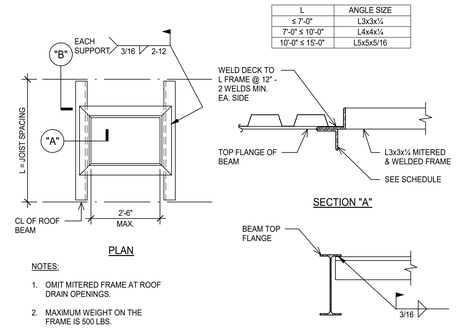
NOTES:

1. USE SECTION "B" WHEN MIN. OVERLAP OF ANGLE ON BEAM OF 1" CANNOT BE MAINTAINED.

1 TYPICAL EXTERIOR BEAM PARALLEL TO JOISTS DETAIL
NO SCALE



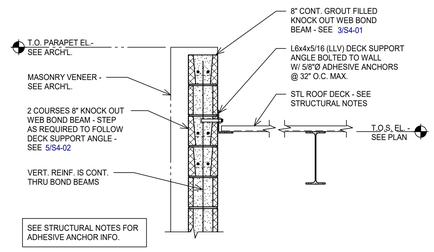
2 TYPICAL MASONRY WALL BEARING BEAM DETAIL
NO SCALE



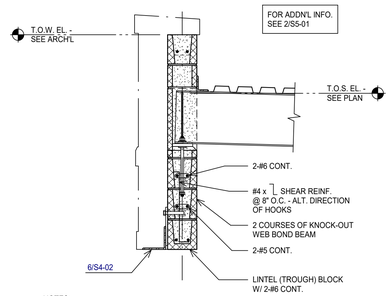
NOTES:

1. OMIT MITERED FRAME AT ROOF DRAIN OPENINGS.
2. MAXIMUM WEIGHT ON THE FRAME IS 500 LBS.

3 TYPICAL ROOF OPENING DETAIL
NO SCALE



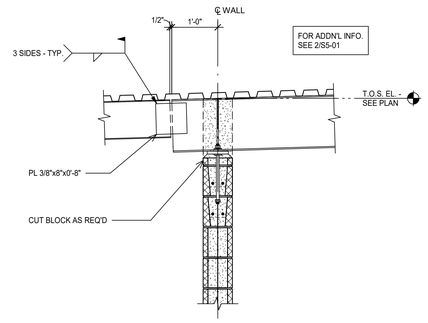
4 TYPICAL DECK ANGLE TO CMU DETAIL
NO SCALE



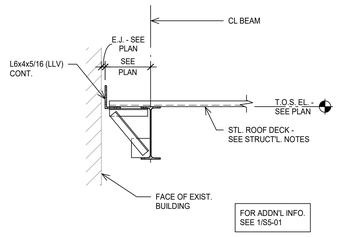
NOTES:

1. SEE 1/S4-01 FOR EXTENSION OF BOND BEAM REINF. PAST O.H. DOOR OPENING.
2. BOND BEAM REINF. SHALL BE CONT. ACROSS CENTER JAMB BETWEEN O.H. DOOR OPENINGS.
3. SEE 2/S4-01 FOR ADDN'L LINTEL INFO.

5 LINTEL @ O.H. GARAGE DOORS
SCALE: 3/4" = 1'-0"



6 BEAMS BEARING AT INTERIOR LOAD-BEARING WALL
SCALE: 3/4" = 1'-0"



7 SECTION
SCALE: 3/4" = 1'-0"

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TYPICAL STEEL DETAILS

SHEET
S5-01

6/13/22

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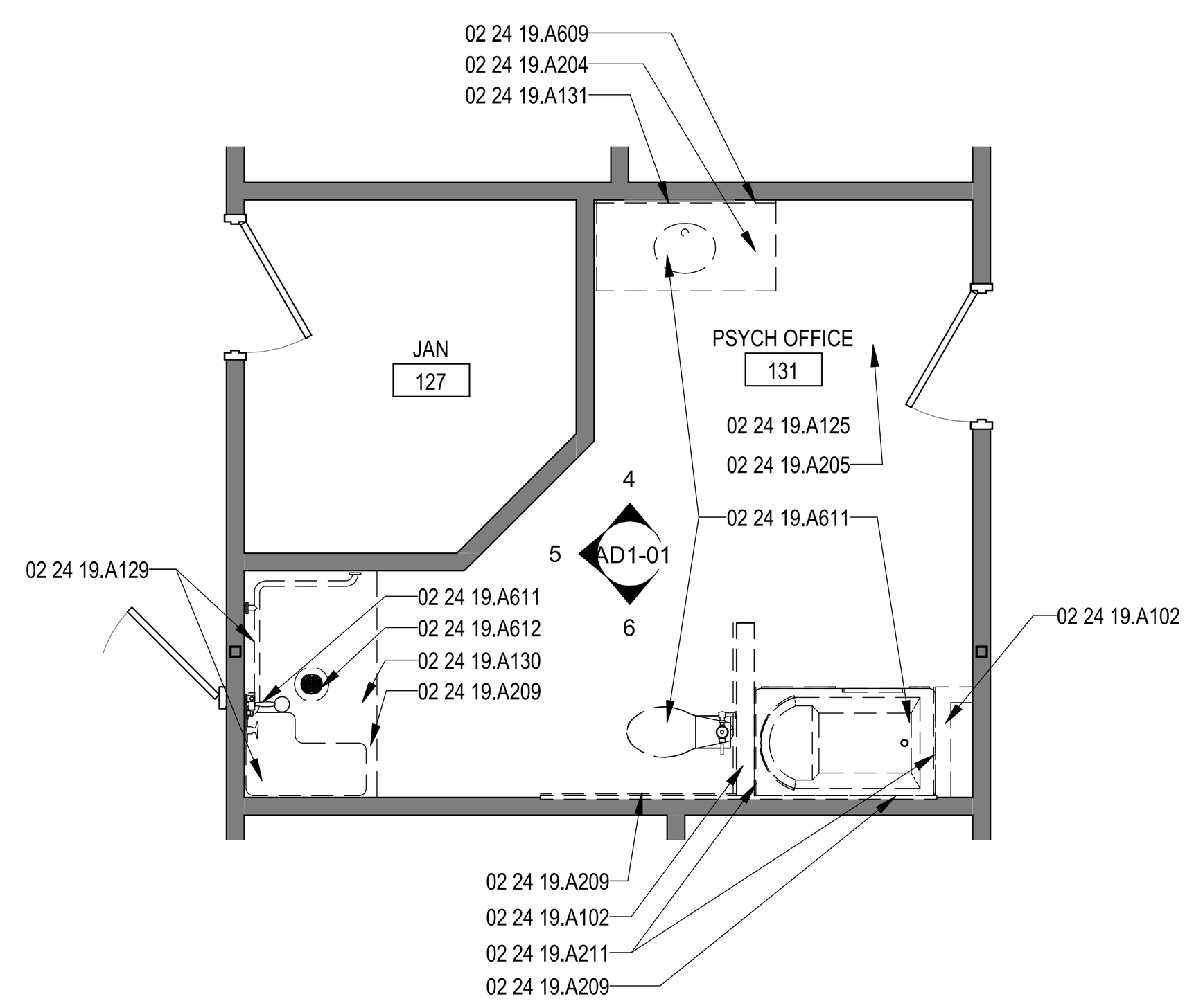
CARLO N. TADDEI 96612 LICENSED PROFESSIONAL ENGINEER



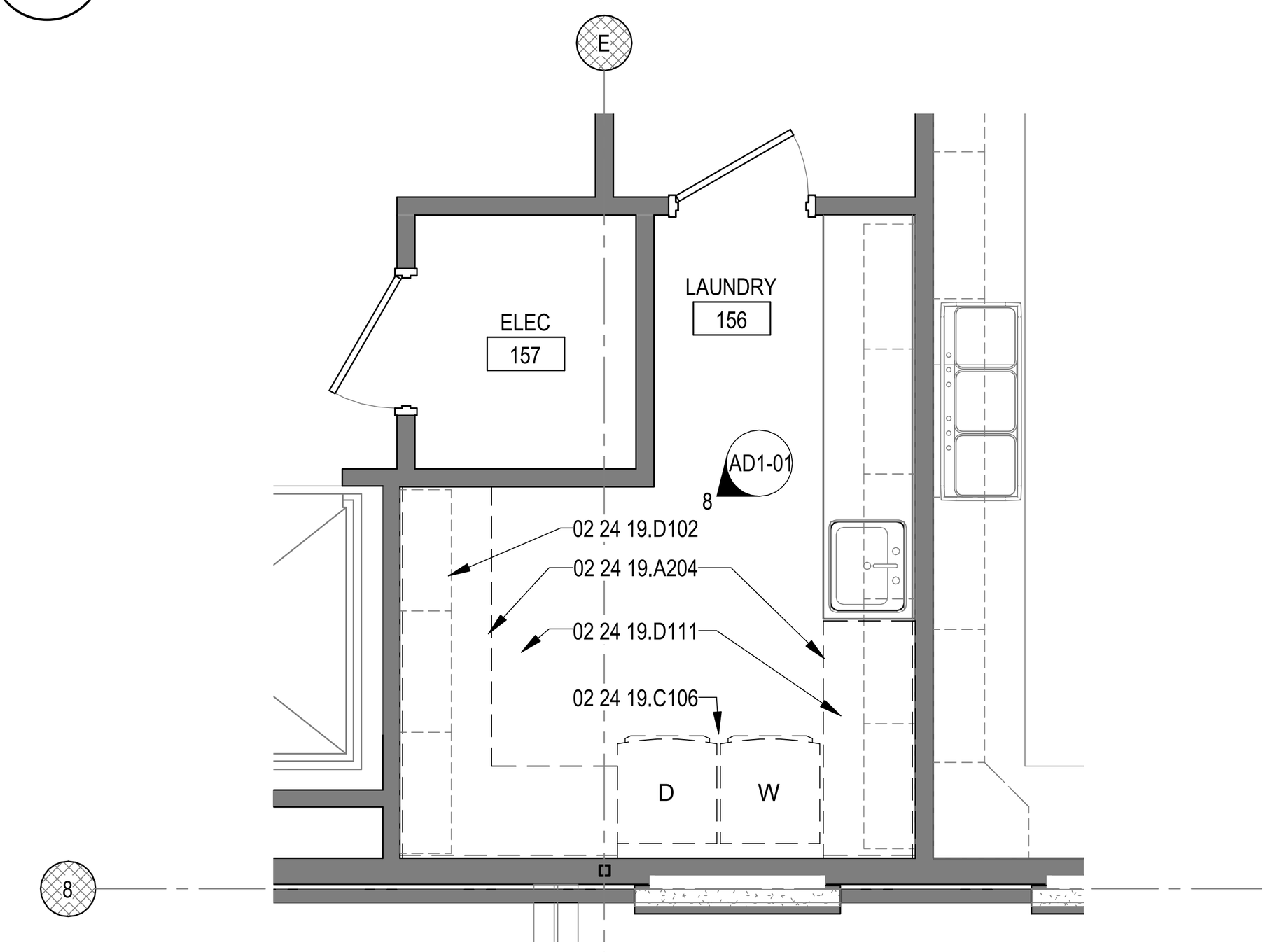
PLAN NORTH

2 ENLARGED DEMO PLAN PSYCH OFFICE

1/4" = 1'-0"

7 SHED DEMO

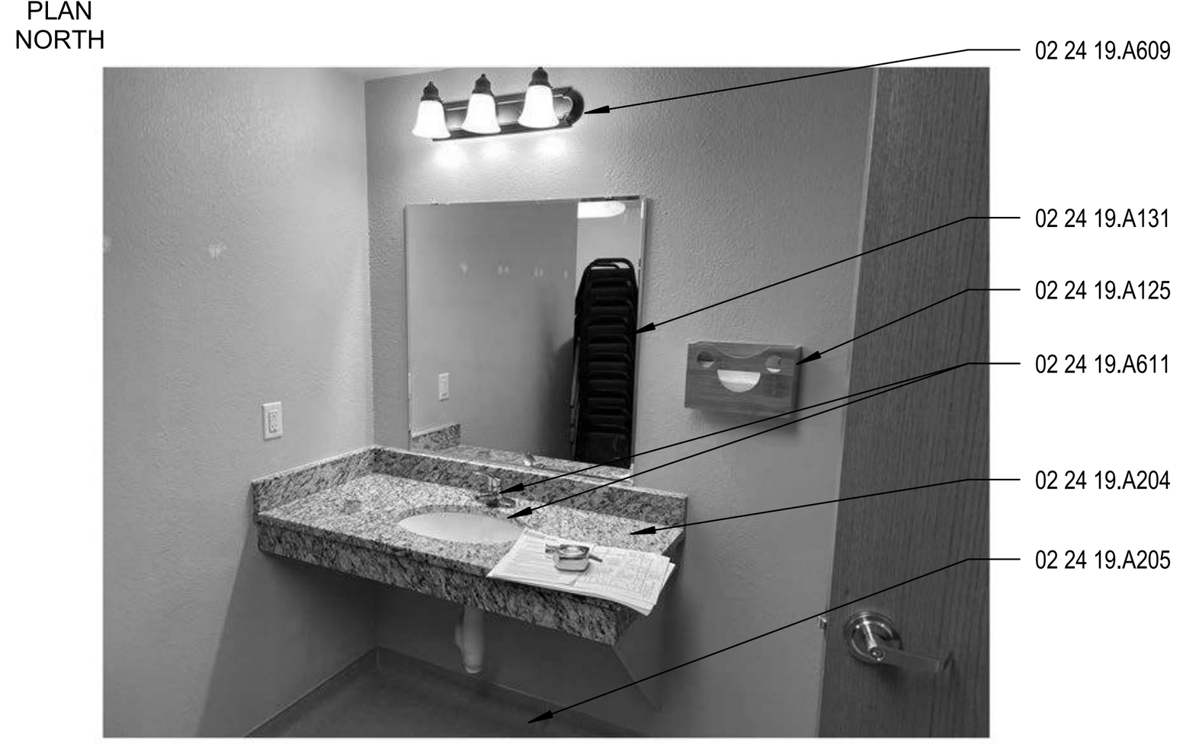
1/4" = 1'-0"



PLAN NORTH

3 ENLARGED DEMO PLAN LAUNDRY

1/4" = 1'-0"

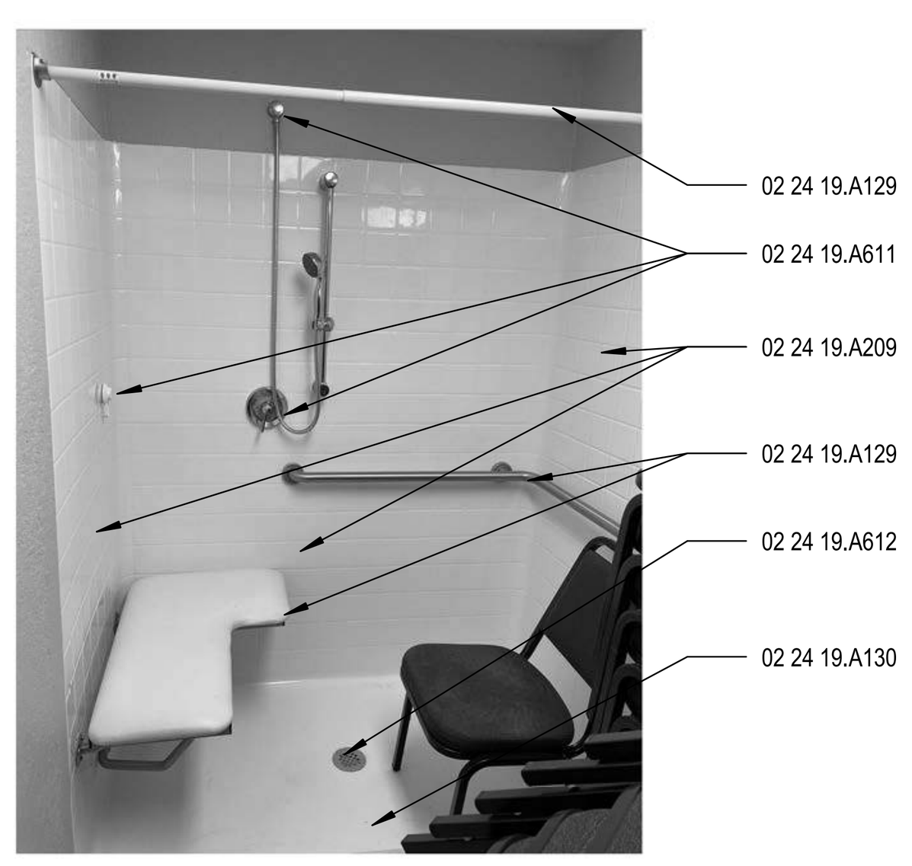


4 LAV ELEVATION

1/2" = 1'-0"

8 LAUNDRY RM ELEVATION

1/8" = 1'-0"



5 SHOWER ELEVATION

1/2" = 1'-0"

9 KITCHEN ELEVATION

1/2" = 1'-0"

6 TUB AND TOILET ELEVATION

1/4" = 1'-0"

PLAN NORTH

1 1ST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

KEYED NOTES

02 24 19.A001	Remove concrete paving, refer to Civil.
02 24 19.A004	Remove gate and tube column supports.
02 24 19.A006	Remove ornamental fencing and masonry site wall as indicated. Contractors option to salvage stone for re-installation in new reconstructed post. Refer to Civil.
02 24 19.A102	Remove partition.
02 24 19.A105	Remove portion of partition to accommodate door; patch as required.
02 24 19.A106	Remove portion of exterior wall as indicated.
02 24 19.A115	Remove door.
02 24 19.A116	Remove door and frame.
02 24 19.A118	Remove window and frame.
02 24 19.A125	Remove toilet room accessories in room, patch wall to match adjacent.
02 24 19.A128	Remove portion of wall to accommodate new opening; reframe and patch as required.
02 24 19.A129	Remove shower accessories; patch wall as required to receive new finish.See Plumbing Dwgs
02 24 19.A130	Remove shower pan; prep existing slab for new flooring.
02 24 19.A131	Remove mirror. Clean and patch wall to match adjacent surface.
02 24 19.A132	Protect and salvage shed for re-use, disassemble, package and return to Owner. Remove all shed anchors and patch concrete as needed.
02 24 19.A204	Remove millwork or casework. Patch floor and wall to receive new finish.
02 24 19.A205	Remove floor finish. Prepare the existing concrete substrate for new flooring.
02 24 19.A209	Remove wall finishes and prep substrate for new wall finish installation.
02 24 19.A211	Remove existing wall substrate and wall tile.
02 24 19.A515	Remove canopy and cut back anchors and structural roof framing. Patch brick to match existing.
02 24 19.A609	Remove light fixture and terminate all wires behind wall, refer to Electrical. Clean and patch wall/ceiling to match adjacient.
02 24 19.A611	Remove plumbing fixture; see Plumbing. Patch existing substrate to prepare for new finishes.
02 24 19.A612	Remove floor drain and patch existing slab, See Plumbing Dwgs
02 24 19.C106	Remove existing washer and dryer, and salvage for re-installation. see 1/A1-01 for location.
02 24 19.D001	Existing site paving to remain.
02 24 19.D004	Existing fence to remain.
02 24 19.D102	Existing wall cabinet to remain.
02 24 19.D111	Existing floor and base to remain; repair and patch as required to match existing.

AREA NOT IN CONTRACT

GENERAL NOTES

1. WHERE FINISHES ARE REMOVED, REPLACE WALL BOARD WITH NEW GYPSUM BOARD, FLOAT AND RETEXTURE ENTIRE WALL TO PROVIDE SMOOTH CONTINUOUS SURFACE.
2. AFTER REMOVAL OF ITEMS IDENTIFIED TO BE REMOVED, CLEAN AND REPAIR THE EXISTING SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHES TEXTURE, PATTERN, COLOR AND SHEEN OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED. NOTE: REFLOAT ENTIRE WALL AND RETEXTURE AND PAINT TO PROVIDE UNIFORM FINISH AS REQUIRED.

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REGISTERED ARCHITECT
STATE OF TEXAS

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

1ST FLOOR DEMOLITION FLOOR PLAN

SHEET

AD1-01

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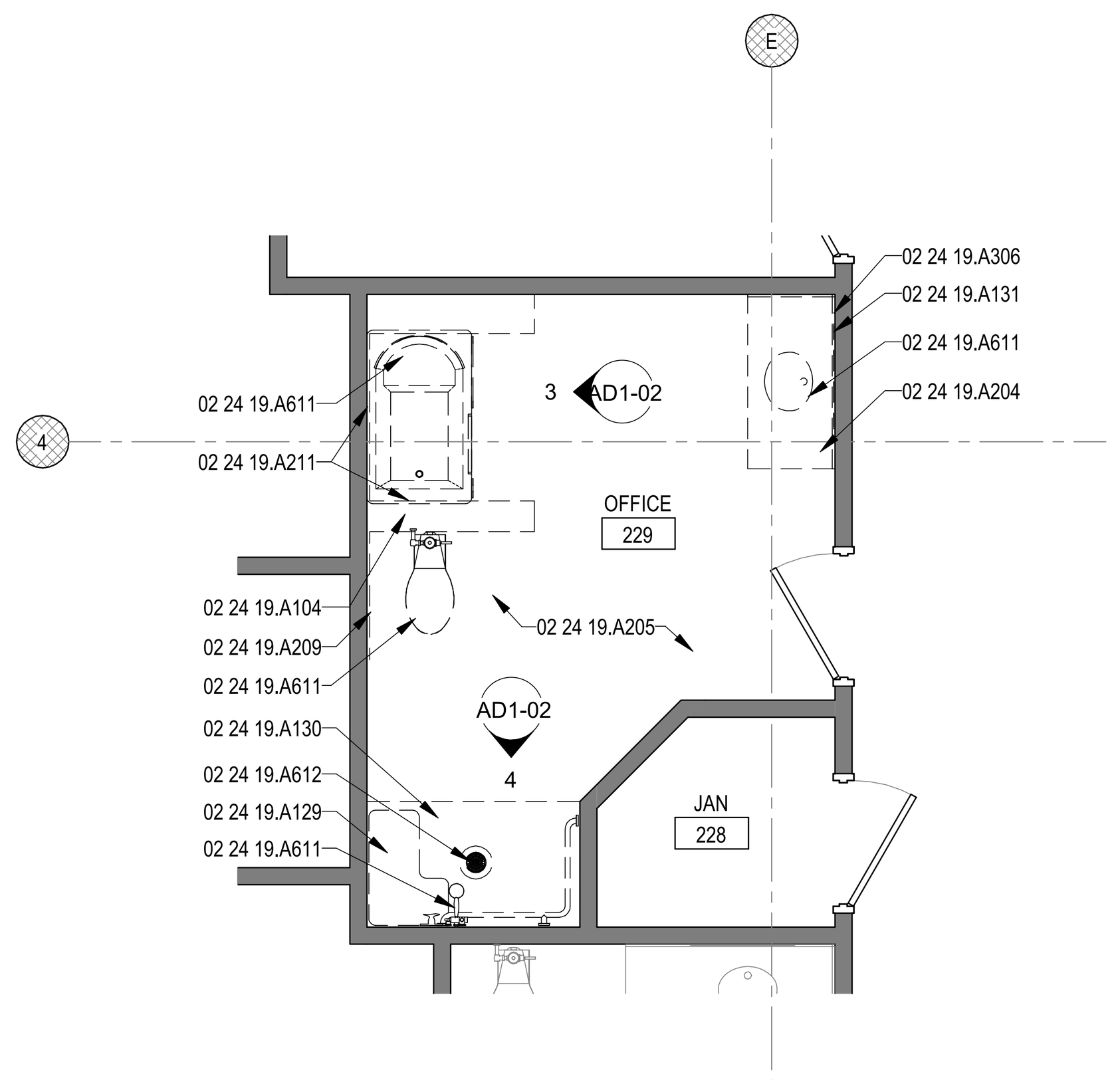


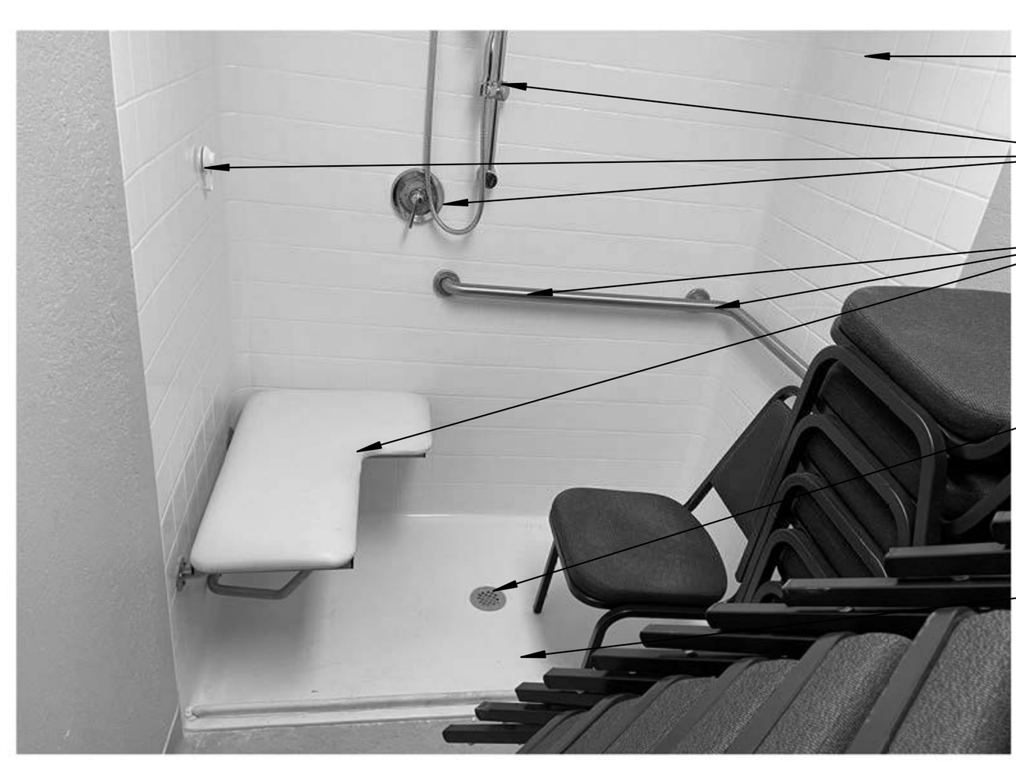
2 ENLARGED DEMO PLAN OFFICE 229

1/4" = 1'-0"

PLAN NORTH

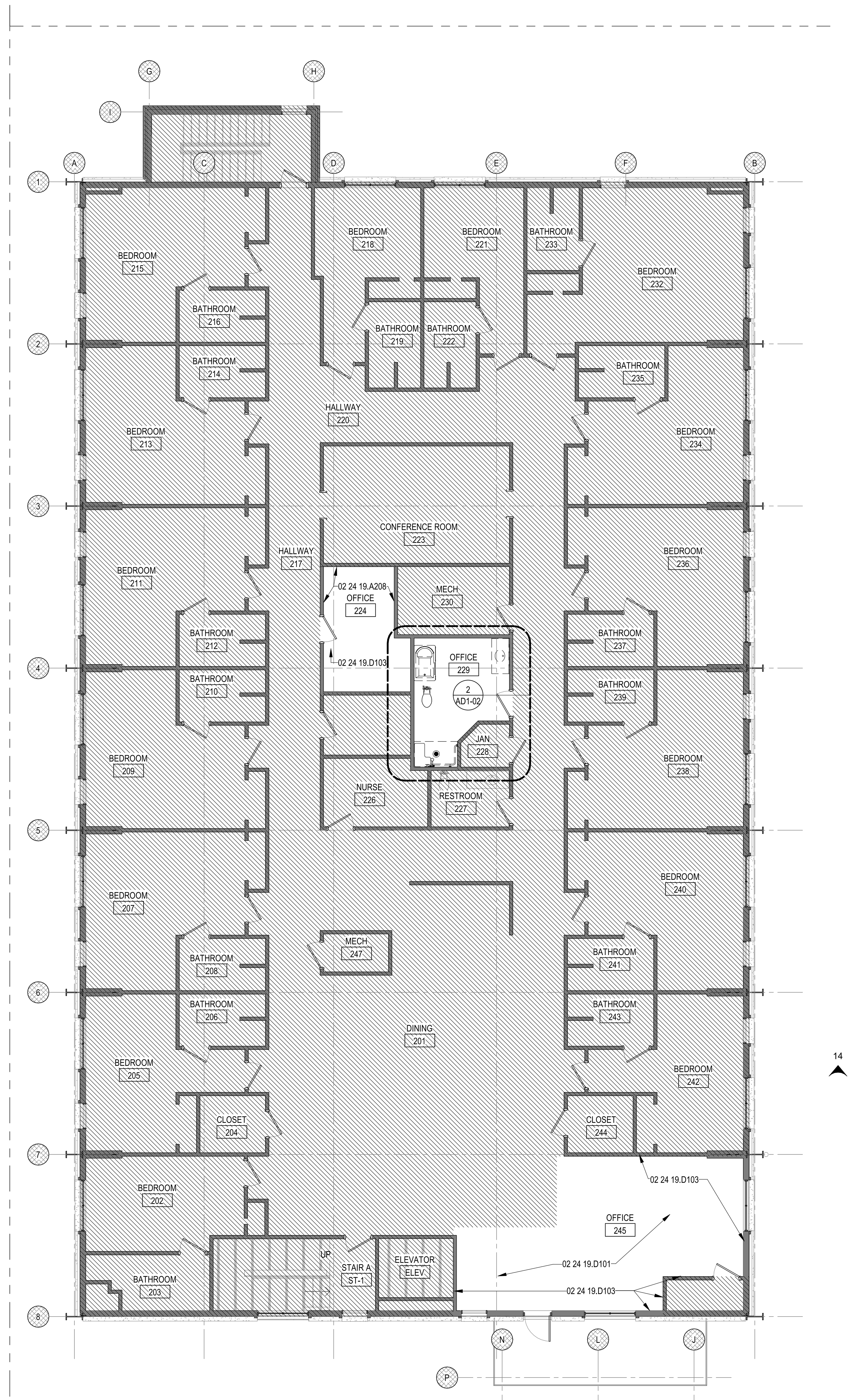
3 TUB ELEVATION

1/4" = 1'-0"



4 SHOWER ELEVATION

1/4" = 1'-0"



1 2ND FLOOR DEMOLITION PLAN

1/8" = 1'-0"

PLAN NORTH

KEYED NOTES

02 24 19.A104	Remove wall.
02 24 19.A129	Remove shower accessories; patch wall as required to receive new finish.See Plumbing Dwgs
02 24 19.A130	Remove shower pan; prep existing slab for new flooring.
02 24 19.A131	Remove mirror. Clean and patch wall to match adjacent surface.
02 24 19.A204	Remove millwork or casework. Patch floor and wall to receive new finish.
02 24 19.A205	Remove floor finish. Prepare the existing concrete substrate for new flooring.
02 24 19.A208	Remove tile flooring and tile wall base. Prep subfloor for new flooring installation.
02 24 19.A209	Remove wall finishes and prep substrate for new wall finish installation.
02 24 19.A211	Remove existing wall substrate and wall tile.
02 24 19.A306	Remove light fixture, refer to Electrical.
02 24 19.A611	Remove plumbing fixture; see Plumbing. Patch existing substrate to prepare for new finishes.
02 24 19.A612	Remove floor drain and patch existing slab, See Plumbing Dwgs
02 24 19.D101	Existing flooring to remain.
02 24 19.D103	Existing wood wall base to remain. Repair or replace if damaged.

AREA NOT IN CONTRACT

GENERAL NOTES

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2ND FLOOR DEMOLITION FLOOR PLAN

SHEET

AD1-02

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1 **1ST FLOOR DEMOLITION REFLECTED CEILING PLAN**

1/8" = 1'-0"

KEYED NOTES

02 24 19.A302	Remove existing ceiling as needed to anchor new partition.
02 24 19.A609	Remove light fixture and terminate all wires behind wall, refer to Electrical. Clean and patch wall/ceiling to match adjacient.
02 24 19.C602	Remove existing light fixture: refer to Electrical, and slavage for reinstallation.
02 24 19.D301	Existing ceiling to remain.

GENERAL NOTES

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1ST FLOOR DEMOLITION REFLECTED CEILING PLAN

SHEET

AD7-01

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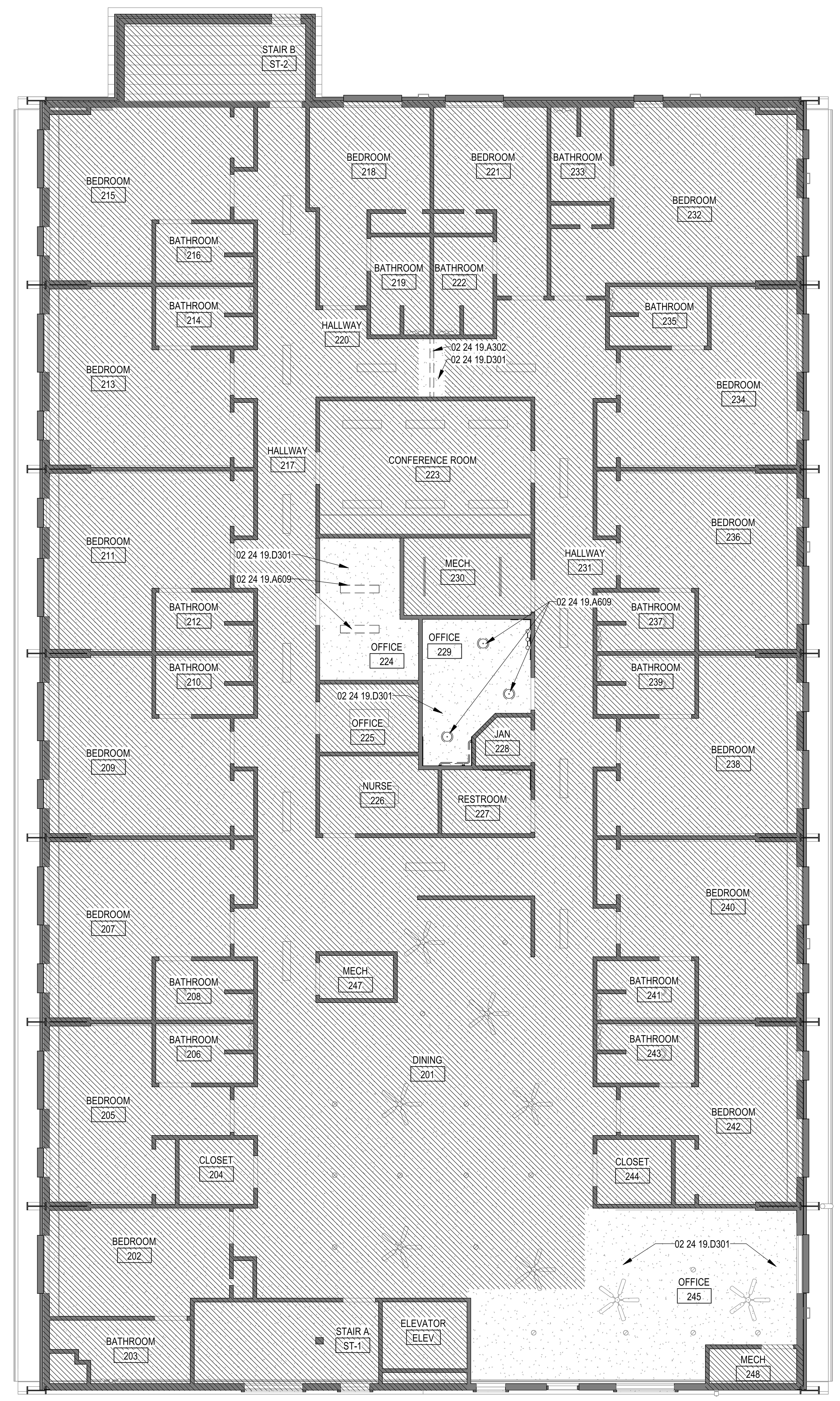
KEYED NOTES

02 24 19.A302	Remove existing ceiling as needed to anchor new partition.
02 24 19.A609	Remove light fixture and terminate all wires behind wall, refer to Electrical. Clean and patch wall/ceiling to match adjacent.
02 24 19.D301	Existing ceiling to remain.



1 2ND FLOOR DEMOLITION REFLECTED CEILING PLAN
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

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2ND FLOOR DEMOLITION REFLECTED CEILING PLAN

SHEET
AD7-02

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ABBREVIATIONS

A	
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED SLAB
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT
AWP	ACOUSTICAL WALL PANEL
B	
B	BEYOND
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF or BY OWNER
BSMT	BASEMENT
BTW	BETWEEN
C	
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED / OWNER INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING or CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACT or CONTRACTOR
CPT	CARPET
CT	CERAMIC TILE
CW	CASEWORK or CURTAIN WALL
D	
DEMO	DEMOLISH or DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION or ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXC	EXCEPT
EXPD	EXPOSED

EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER WITH CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FLR	FLOOR
FO	FACE OF
FT	FEET or FOOT
FTG	FOOTING
FV	FIELD VERIFY
G	
GA	GAUGE
GALV	GALVANIZED
GFRC	GLASS-FIBER REINFORCED CONCRETE
GFRG	GLASS-FIBER REINFORCED GYPSUM
GL	GLASS
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
HC	HANDICAP
HDW	HARDWARE
HM	HOLLOW METAL
HP	HIGH POINT
HPL	HIGH PRESSURE LAMINATE
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
I	
ID	INSIDE DIAMETER
INST	INSTALL(ED)
INSUL	INSULATE or INSULATION
INT	INTERIOR
J	
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCK OUT
L	
LAM	LAMINATED
LAV	LAVATORY
LF	LINEAR FEET
LGT	LENGTH
LH	LEFT HAND
LTWT	LIGHT WEIGHT
M	
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD (AFF)
MEZZ	MEZZANINE
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MSL	MEAN SEA LEVEL
MTD	MOUNTED

MTL	METAL
MW	MILLWORK
N	
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER or OVERFLOW DRAIN
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
P	
PCF	POUNDS PER CUBIC FOOT
PCT	PORCELAIN CERAMIC TILE
PL	PROPERTY LINE or PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN OR ROUND
REF	REFER or REFERENCE
REFG	REFRIGERATOR
REQD	REQUIRED
REV	REVISE or REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
S	
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	SPACE(S)
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
ST	STONE

STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
T	
T&G	TONGUE AND GROOVE
TAS	TEXAS ACCESSIBILITY STANDARDS
TB	TACKBOARD
TBD	TO BE DETERMINED
THK	THICK or THICKNESS
TLT	TOILET
TO	TOP OF
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TANGENT POINT
TYP	TYPICAL
U	
UC	UNDER COUNTER
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VNL	VINYL
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WP	WORKING POINT
WSCT	WAINSCOT
WT	WEIGHT

MATERIAL SYMBOLS

- EARTH
- DISTURBED EARTH / COMPACTED FILL
- POROUS FILL / GRAVEL
- CONCRETE
- BRICK
- CONCRETE MASONRY UNITS
- CAST STONE
- STONE
- ALUMINUM
- STEEL
- PLYWOOD
- FINISH WOOD
- CONTINUOUS WOOD BLOCKING
- NON-CONTINUOUS WOOD BLOCKING / SHIM
- ACOUSTIC / THERMAL BATT INSULATION
- RIGID INSULATION
- EXTERIOR INSULATION FINISH SYSTEM (EIFS)
- GYPSUM BOARD
- PLASTER
- ACOUSTICAL WALL PANELS

ANNOTATIONS

NEW COLUMN GRID & DESIGNATION ROO

EXISTING COLUMN GRID & DESIGNATION

DETAIL NUMBER
SHEET NUMBER

BUILDING SECTION

WALL SECTION

DETAIL SECTION

DETAIL CALLOUT

ELEVATION

ROOM NAME & NUMBER

DOOR NUMBER

PARTITION TYPE

PARTITION TYPE (SOUND ATTENUATED)

WINDOW / STOREFRONT TYPE

01 23 45.A6 KEYED NOTE (SEE LEGEND ON SHEET WHERE NOTE OCCURS)

LEVEL 1 100'-0" ELEVATION CALLOUT

WP WORKING POINT

REVISION NUMBER

CENTERLINE

CEILING SYMBOLS

- ACOUSTICAL CEILING
- GYPSUM BOARD CEILING
- PLASTER CEILING
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE
- ACCESS DOOR
- PROJECTOR
- SPEAKER
- SMOKE DETECTOR
- WI-FI HOT SPOT
- SPRINKLER

ACP-1 12'-0" A.F.F. CEILING TYPE & HEIGHT

SUSPENDED LIGHT

DOWN LIGHT

EXIT LIGHT

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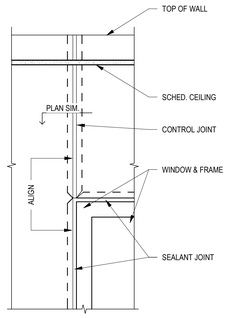
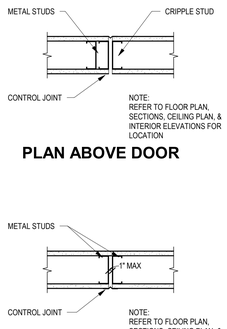
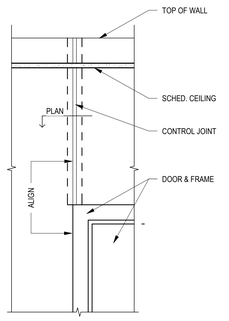


CJ ELEVATION AT WINDOW

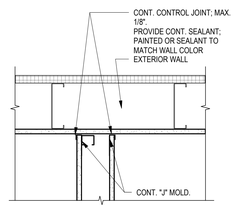


PLAN ABOVE DOOR

TYPICAL CJ PLAN AT INTERIOR PARTITION

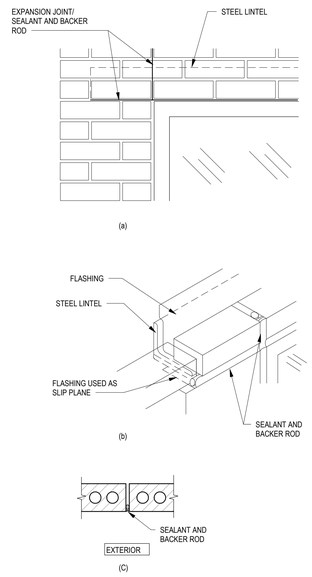


CJ ELEVATION AT DOOR



PLAN DETAIL AT INTERIOR INTERSECTING PARTITIONS

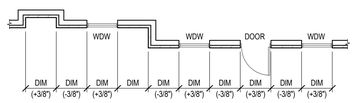
TYPICAL GYPSUM BOARD CONTROL JOINT DETAILS



NOTES:

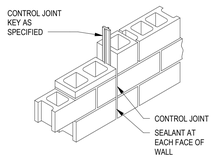
1. PLACE BRICK EXPANSION JOINTS AS FOLLOWS:
   - WITHIN 4' - 0" OF OUTSIDE CORNERS UNLESS NOTED OTHERWISE
   - AT OFFSETS AND SETBACKS
   - AT WALL INTERSECTIONS
   - AT CHANGES IN WALL HEIGHT
   - WHERE WALL BACKING SYSTEM CHANGES
   - WHERE SUPPORT OF BRICK VENEER CHANGES
2. FOR BRICKWORK WITHOUT OPENINGS, SPACE NO MORE THAN 25 FT O.C.
3. FOR BRICKWORK WITH OPENINGS, REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS

TYPICAL BRICK EXPANSION JOINT DETAILS

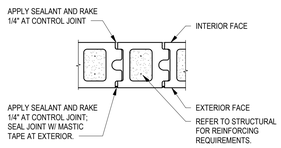


NOTE: MASONRY DIMENSIONS STATED ON FLOOR PLANS ARE NOMINAL. USE THIS GUIDE TO DETERMINE ACTUAL MASONRY DIMENSIONS.

TYPICAL CMU PLAN DIMENSIONS



KEYED JOINT OPTION

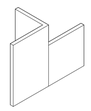


CONTROL JOINT BLOCK OPTION

NOTES:
1. USE OF CONTROL JOINT BLOCK OR RUBBER LIKE MATERIAL KEY & SASH BLOCK IS CONTRACTOR OPTION.
2. LOCATE CONTROL JOINTS IN WALLS AT A MAXIMUM OF 32' - 0" O.C.
3. HORIZONTAL JOINT REINFORCING TO BE CONTINUOUS AT CONTROL JOINTS.
4. LOCATE CONTROL JOINTS AT FACE OF PILASTERS.

TYPICAL CMU EXPANSION/CONTROL JOINT DETAILS

STRAIGHT RUN WALLS
PROVIDE 3/8" WIDE MASONRY EXPANSION/CONTROL JOINT AS INDICATED OR NOTED ON PLANS AND DETAILS; IN NO CASE SHALL A SINGLE RUN OF CMU WALL EXTEND BEYOND 24 FEET WITHOUT RECEIVING A MASONRY EXPANSION/CONTROL JOINT.

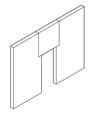


CORNER INTERSECTION AT DIFFERENT HEIGHTS
PROVIDE 3/8" WIDE MASONRY EXPANSION/CONTROL JOINT AT THIS CONDITION IF NOT NOTED OR SHOWN ON THE PLANS AND DETAILS.

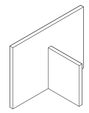
INTERSECTION AT SAME HEIGHT
PROVIDE 3/8" WIDE MASONRY EXPANSION/CONTROL JOINT AS INDICATED OR NOTED ON PLANS AND DETAILS; IN THE CASE A JOINT IS NOT DENOTED, THEN THE CMU IS JOINT LACED TOGETHER.

CHANGE IN WALL HEIGHT
PROVIDE 3/8" WIDE MASONRY EXPANSION/CONTROL JOINT AT THIS CONDITION IF NOT NOTED OR SHOWN ON THE PLANS AND DETAILS.

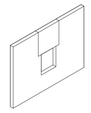
INTERSECTING AT CORNERS
PROVIDE 3/8" WIDE MASONRY EXPANSION/CONTROL JOINT AS INDICATED OR NOTED ON PLANS AND DETAILS; IN THE CASE A JOINT IS NOT DENOTED, THEN THE CMU IS JOINT LACED TOGETHER.



ABOVE DOOR OPENINGS
PROVIDE TWO (2) 3/8" WIDE MASONRY EXPANSION/CONTROL JOINTS OFF-SET AND ABOVE EACH SIDE OF DOOR JAMB OPENING. THIS CONDITION IS TYPICAL AT EACH DOOR OR OPENING OCCURRING IN CMU WALLS.



INTERSECTING AT DIFFERENT HEIGHTS
PROVIDE 3/8" WIDE MASONRY EXPANSION/CONTROL JOINT AT THIS CONDITION IF NOT NOTED OR SHOWN ON THE PLANS AND DETAILS.



ABOVE WINDOW/WALL PENETRATION OPENINGS
PROVIDE TWO (2) 3/8" WIDE MASONRY EXPANSION/CONTROL JOINTS OFF-SET AND ABOVE EACH SIDE OF OPENING. THIS CONDITION IS TYPICAL AT EACH OPENING OCCURRING IN CMU WALLS.

NOTE: THE ABOVE DRAWINGS REFLECT MANY OF THE CMU WALL CONDITIONS ENCOUNTERED WITHIN THIS PROJECT. WHILE SOME CONDITIONS ARE INDICATED WITHIN DETAILS AND/OR INDICATED ON PLANS ("C/J"), SOME OF THE CONDITIONS SHOWN ABOVE ARE TYPICAL AND TO BE CONSTRUCTED AS SHOWN AND NOTED ABOVE, WHEN THAT PARTICULAR CONDITION IS ENCOUNTERED.

NOTE: HORIZONTAL JOINT REINFORCING CONTINUES THROUGH JOINTS. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCING REQUIREMENTS.

TYPICAL CMU JOINT CONDITIONS

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

ABBREVIATIONS, SYMBOL LEGENDS, MASONRY DETAILS

SHEET
A0-01

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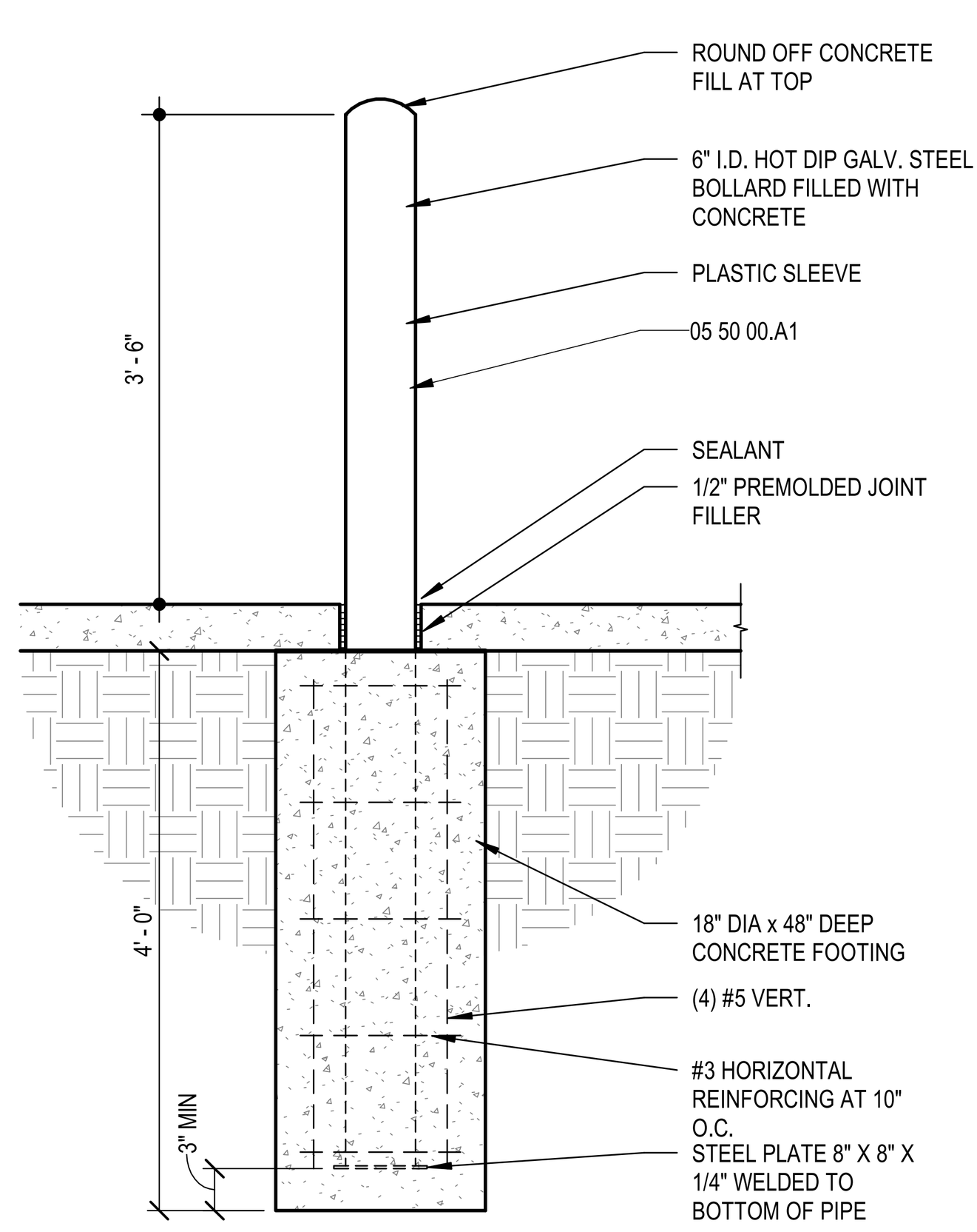
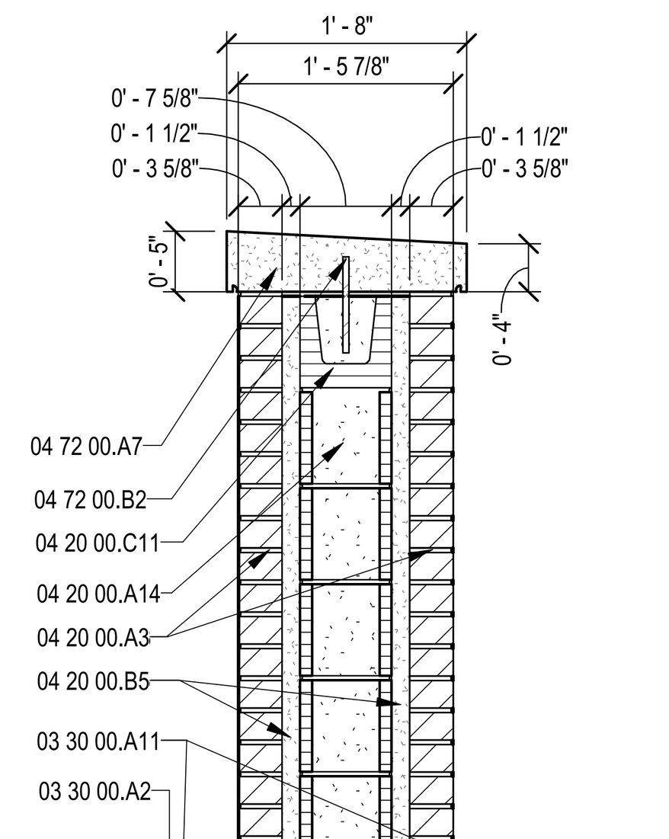


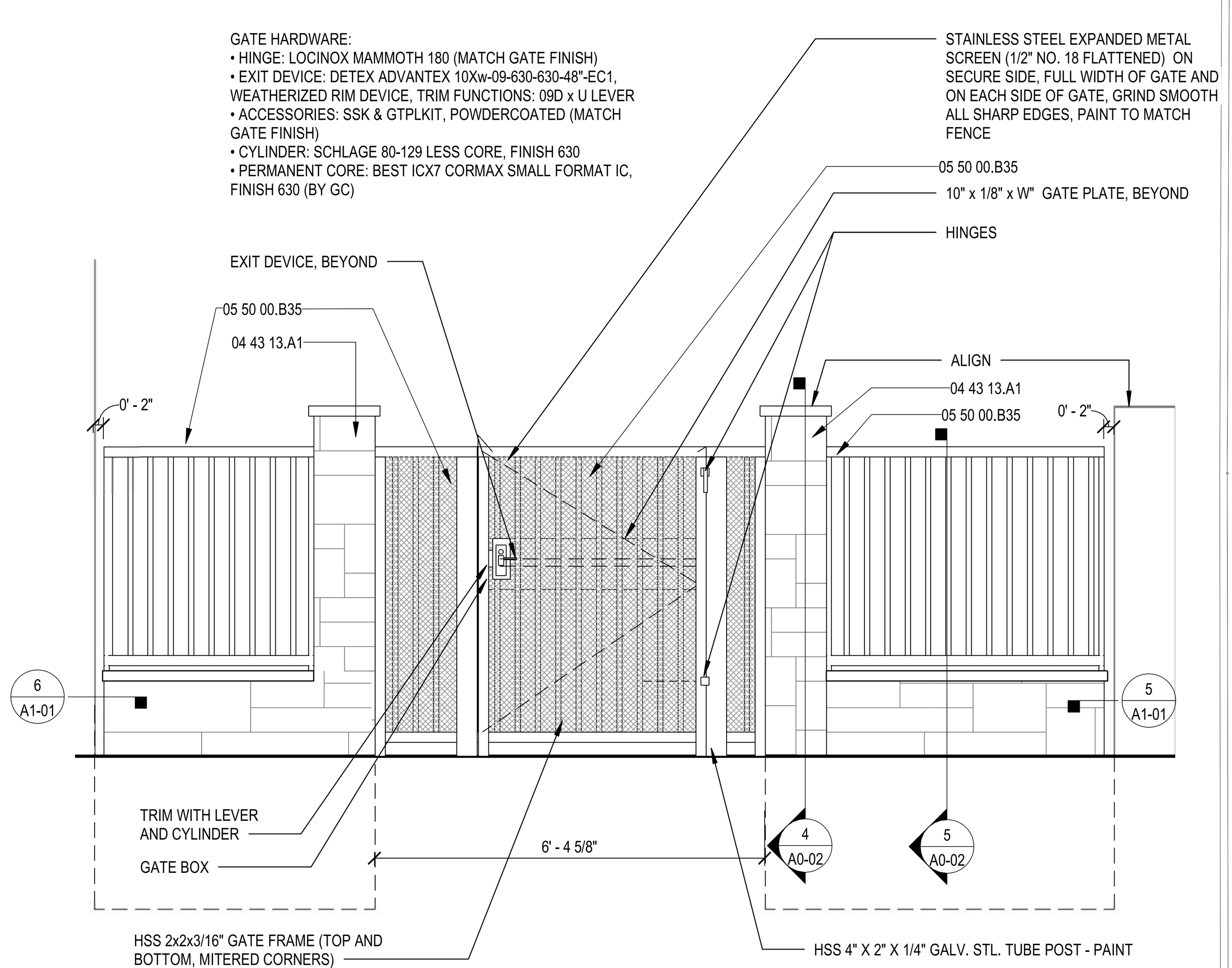
2 BOLLARD DETAIL

3/4" = 1'-0"



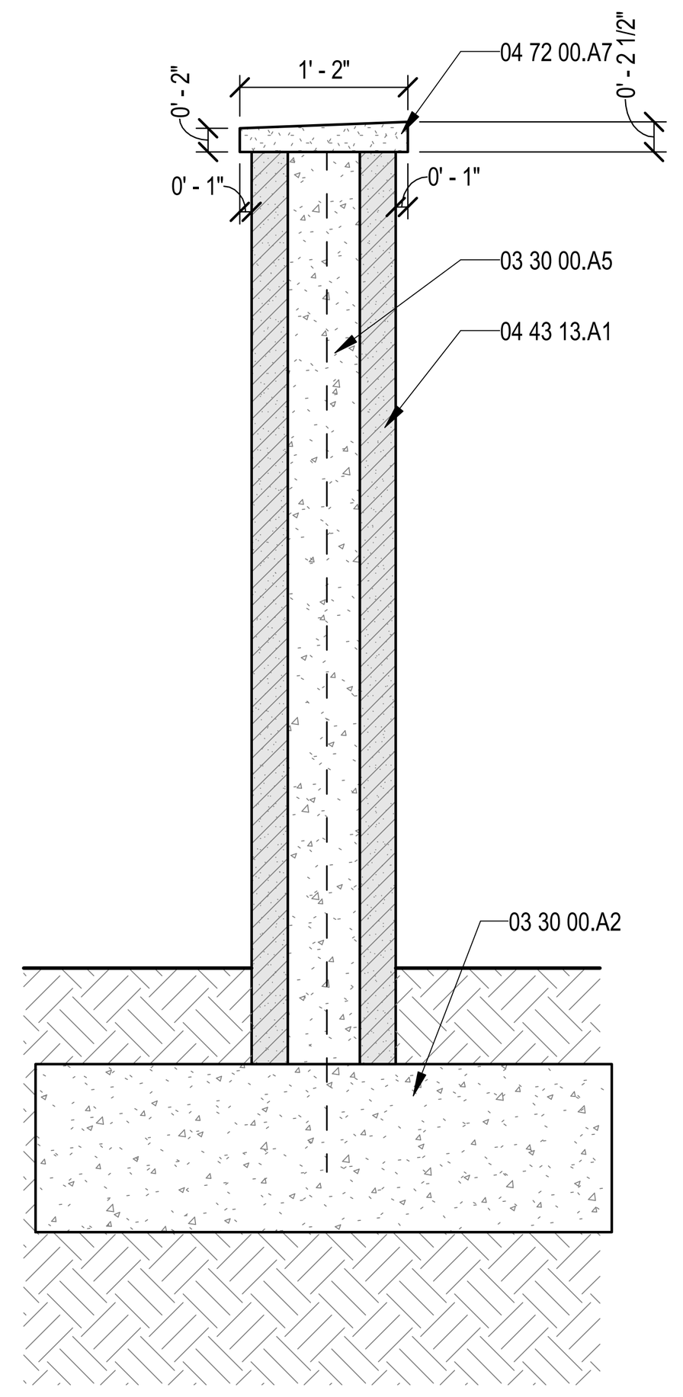
6 SCREEN WALL

3/4" = 1'-0"



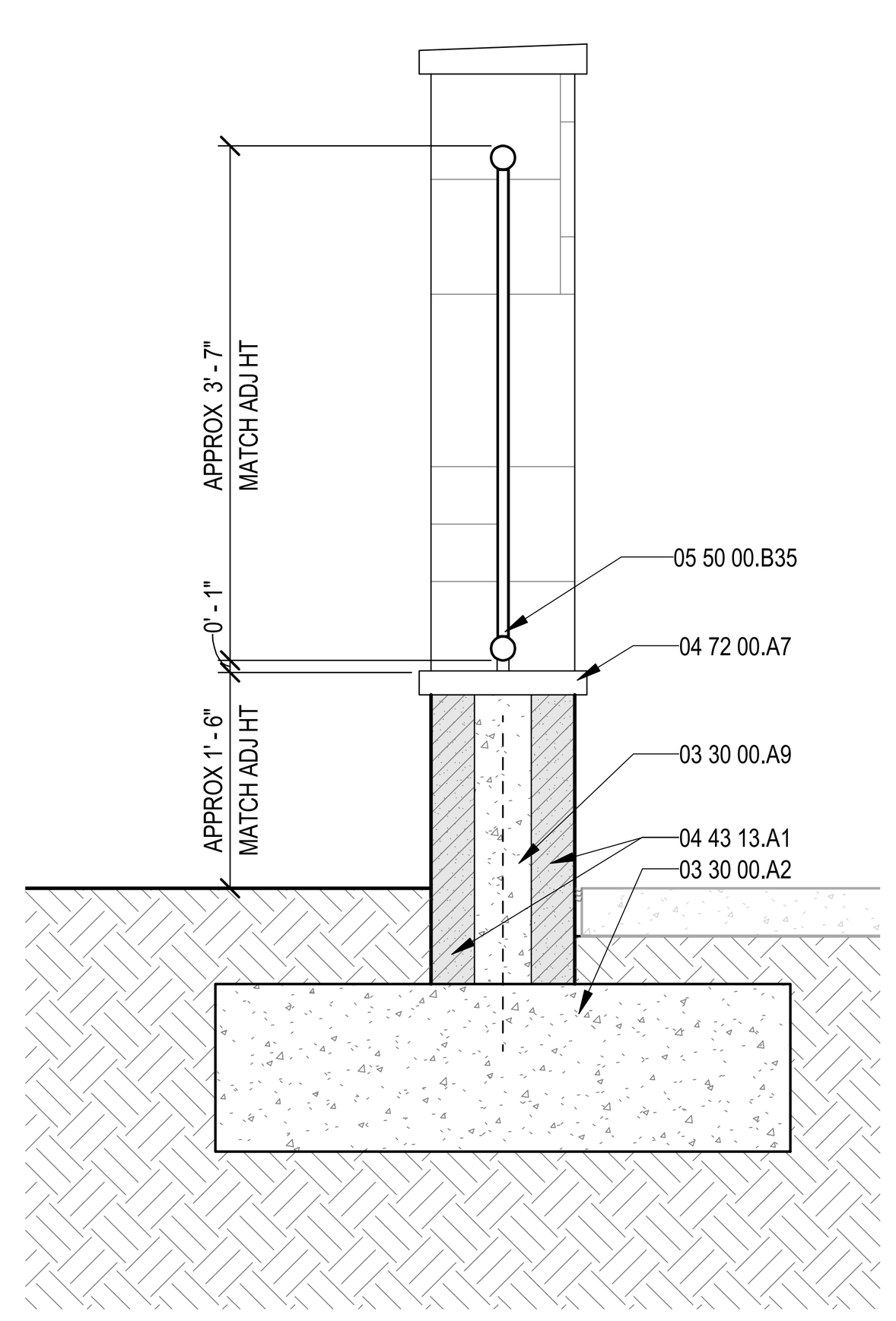
3 FENCE/GATE ELEVATION

1/2" = 1'-0"



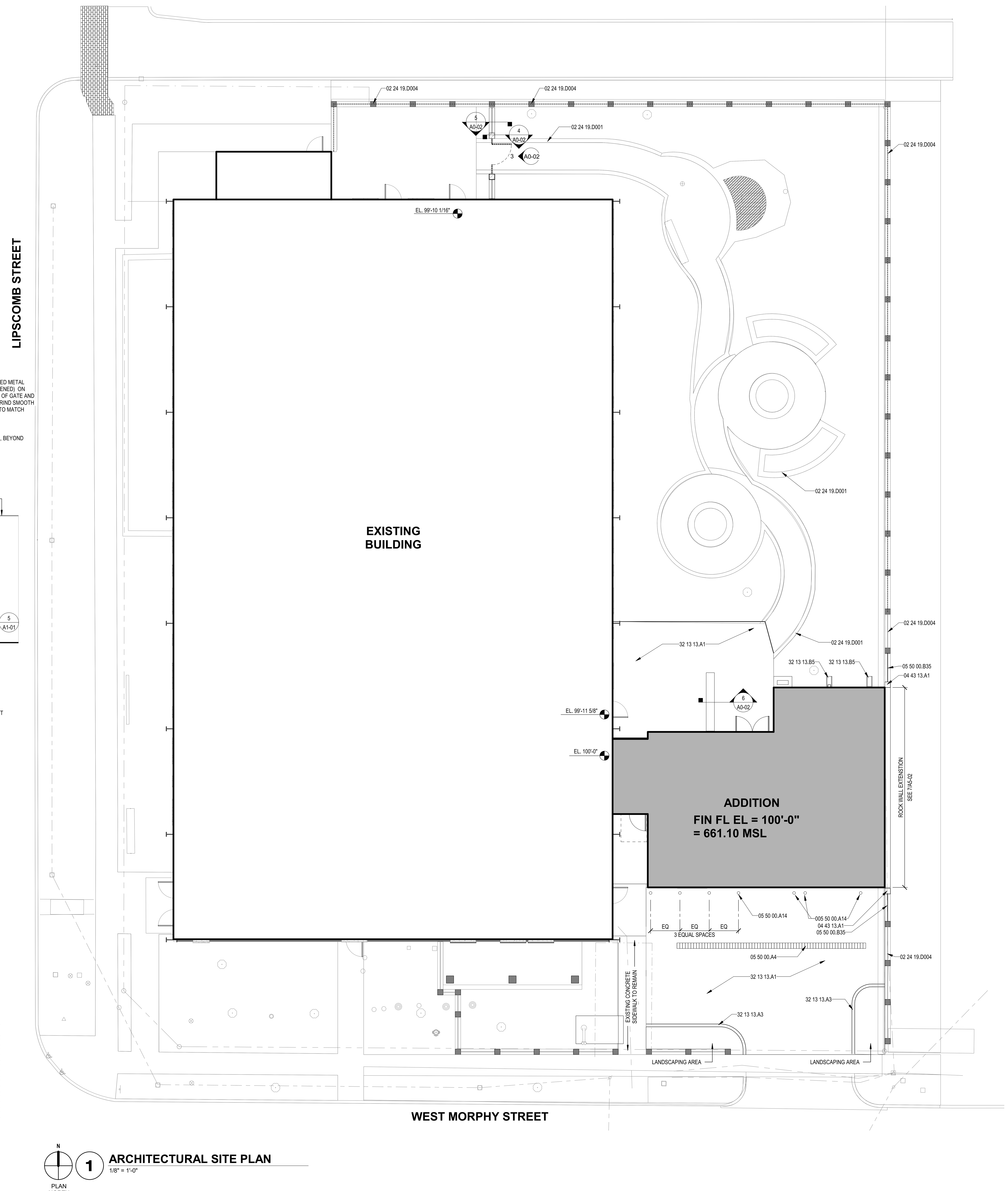
4 FENCE POST SECTION

3/4" = 1'-0"



5 WALL SECTION

3/4" = 1'-0"



1 ARCHITECTURAL SITE PLAN

1/8" = 1'-0"

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KEYED NOTES

02 24 19.D001	Existing site paving to remain.
02 24 19.D004	Existing fence to remain.
03 30 00.A2	Concrete foundation; see Structural.
03 30 00.A5	Concrete wall; see Structural.
03 30 00.A9	Concrete retaining wall.
03 30 00.A11	Concrete slab, see Civil.
04 20 00.A3	Face brick, accent.
04 20 00.A14	8" concrete masonry unit.
04 20 00.B5	Grout solid.
04 20 00.C11	Concrete masonry unit bond beam; fill with concrete; see Structural for reinforcing and other requirements.
04 43 13.A1	Salvaged or new stone veneer masonry to match existing. (GC option)
04 72 00.A7	Cast stone coping.
04 72 00.B2	Stainless steel cast stone anchor(s), furnished and installed by cast stone fabricator; fasten to wall system/structure as required.
05 50 00.A1	Pipe Bollard.
05 50 00.A4	Trench drain: refer to Civil.
05 50 00.A14	Pipe bollards, refer to detail 2/A0-02.
05 50 00.B35	Steel picket fence; 2" square tube top, bottom, and side rails w/ 1" square tube at 4" o.c. to match existing fence.
32 13 13.A1	Concrete paving, see Civil.
32 13 13.A3	Curb: refer to Civil.
32 13 13.B5	Concrete Splash block.

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06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

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PROJECT #: 21063-00F	MANAGER: GAR
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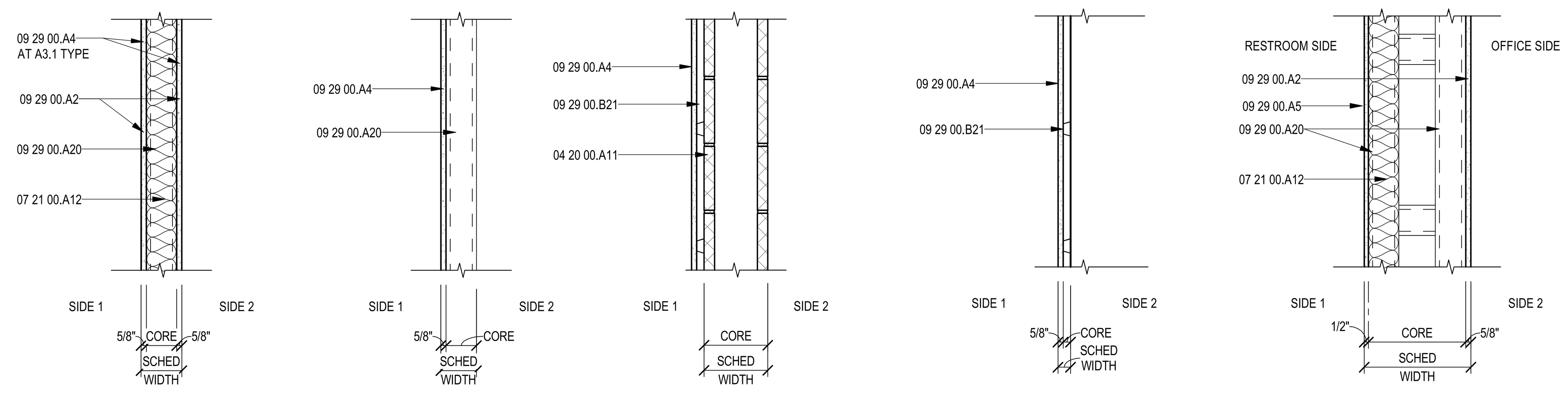
ARCHITECTURAL SITE PLAN

SHEET

A0-02

PARTITION TYPES LEGEND



TYPE "A" — (A) A3 3 5/8" MTL STUD

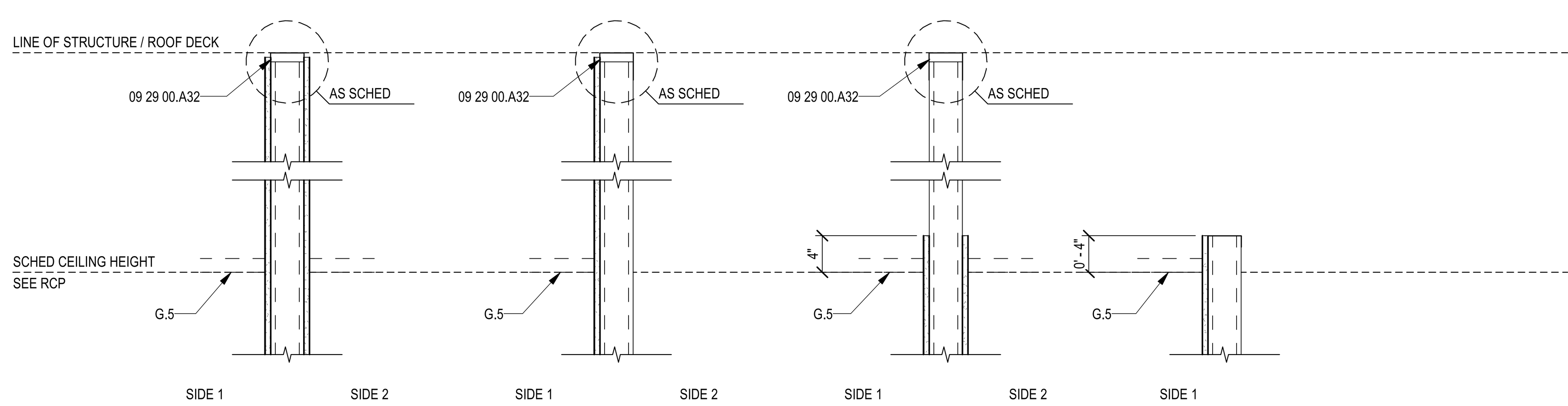
TYPE "B" — (D) B2 2 1/2" MTL STUD; (B) B3 3 5/8" MTL STUD

TYPE "N" — (E) N8 8" CMU

TYPE "D" — (D) D0 7/8" FURRING CHANNEL

TYPE "L" — (L3) L3 3 5/8" MTL STUD

HEAD OF WALL CONFIGURATION



HEAD CONFIG. "A"

EXTEND STUD FRAMING TO UNDERSIDE OF STRUCTURE / ROOF DECK WITH GYPSUM WALL BOARD AS SCHEDULED, FULL HEIGHT

HEAD CONFIG."B"

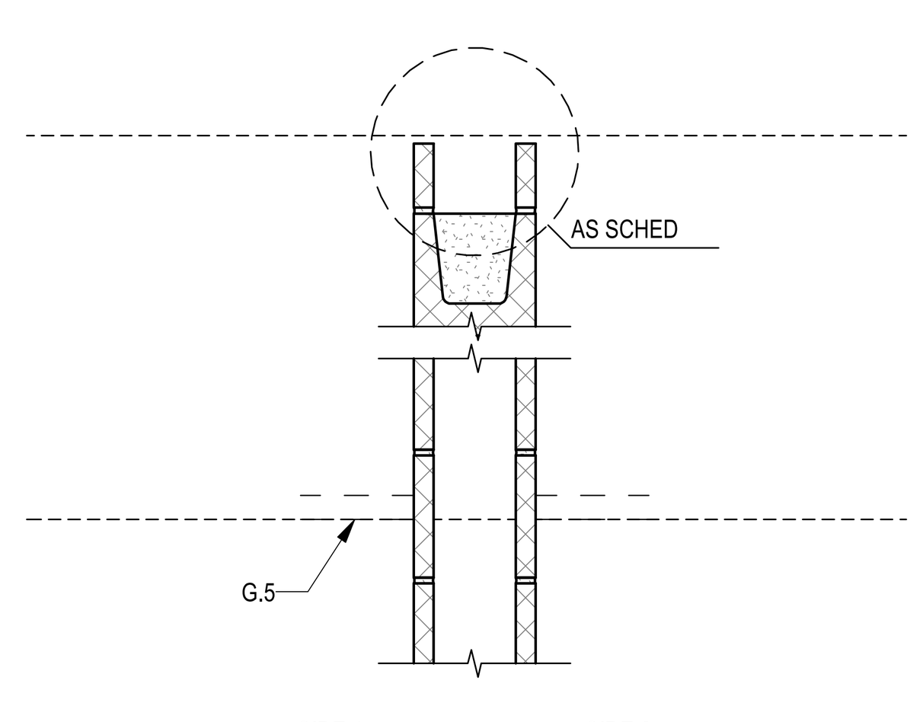
EXTEND STUD FRAMING TO UNDERSIDE OF STRUCTURE / ROOF DECK WITH GYPSUM WALL BOARD

HEAD CONFIG."C"

EXTEND STUD FRAMING TO UNDERSIDE OF STRUCTURE / ROOF DECK WITH GYPSUM WALL BOARD AS SCHEDULED, TO 4" ABOVE CEILING

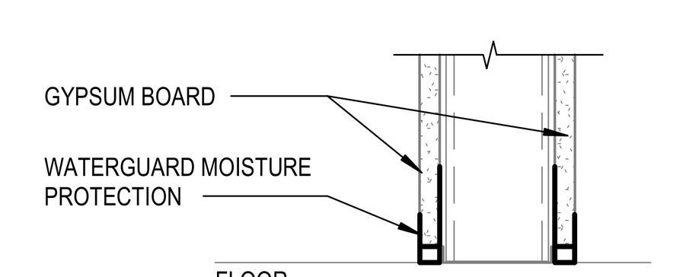
HEAD CONFIG."D"

EXTEND STUD FRAMING AND GYPSUM WALL BOARD TO 4" ABOVE CEILING



HEAD CONFIG."E"

EXTEND MASONRY TO UNDERSIDE OF STRUCTURE / ROOF DECK.



INSTALLED CONTINUOUSLY AT FLOOR LEVEL OF ALL GYPSUM BOARD THROUGHOUT BUILDING

TYPICAL FLOOR BASE DETAIL

SYMBOLS LEGEND

Y# — (Y#) INDICATES PARTITION TYPE AND CORE WIDTH; SEE PARTITION TYPES LEGEND ON THIS SHEET FOR DESCRIPTION

(X) — INDICATES HEAD OF WALL CONFIGURATION; SEE CONFIGURATIONS ON THIS SHEET FOR DESCRIPTION

PARTITION TYPES - INTERIOR

TYPE	WIDTH	ASSEMBLY			ACOUSTICAL (STC)		REMARKS
		SIDE 1	CORE	SIDE 2	NON-ACOUS	W/ INSUL	
TYPE "A"							
A3	4 7/8"	5/8" GWB	3 5/8" MTL Studs	5/8" GWB	38	44	
A3.1	4 7/8"	5/8" GWB	3 5/8" MTL Studs	5/8" GWB	38	44	MOISTURE RESISTANT GYPSUM BOARD
TYPE "B"							
B2	3 1/8"	5/8" GWB	2 1/2" MTL Studs	-			
TYPE "D"							
D0	1 1/2"	5/8" GWB	7/8" Furring Channel				MOISTURE RESISTANT GYPSUM BOARD
TYPE "L"							
L3	4 1/4"	5/8" GWB	3 5/8" MTL Studs	-	38	44	CEMENT BOARD
TYPE "N"							
N8	7 5/8"	---	8" CMU	---		45	MOISTURE RESISTANT GYPSUM BOARD

KEYED NOTES

04 20 00.A11	Concrete masonry unit as noted on plans.
07 21 00.A12	Acoustical batt insulation.
09 29 00.A2	5/8" gypsum board.
09 29 00.A4	5/8" Moisture resistant gypsum board.
09 29 00.A5	1/2" cement board.
09 29 00.A20	Metal stud framing, size as scheduled.
09 29 00.A32	Deflection track, size as scheduled.
09 29 00.B21	7/8" furring channel.
G.5	Ceiling as scheduled.

GENERAL NOTES

1. Partition types are identified on the floor plans by a combination of symbol designation and graphic representation.
2. Different symbols are used to distinguish between those partitions requiring sound attenuation and those that do not (See SYMBOLS LEGEND on this sheet).
3. Partitions requiring fire or smoke ratings are identified on the floor plan by graphic representation (See GRAPHICS LEGEND on this sheet).
4. The PARTITION TYPES LEGEND provides graphic depictions of each partition type. Not all of the partition types depicted are used on this project.
5. Refer to specifications for minimum stud gauge, maximum spacing and deflection criteria
6. Partitions requiring fire or smoke ratings that intersect exterior walls shall extend and seal to interior face of exterior sheathing.
7. Partitions requiring fire or smoke ratings shall be identified as such with a label above the ceiling at 6'-0" OC MAX each side.
8. "LINE OF STRUCTURE" depicted on the PARTITION TYPES LEGEND is diagrammatic and does not necessarily depict exact conditions.
9. See structural drawings for masonry reinforcing information.

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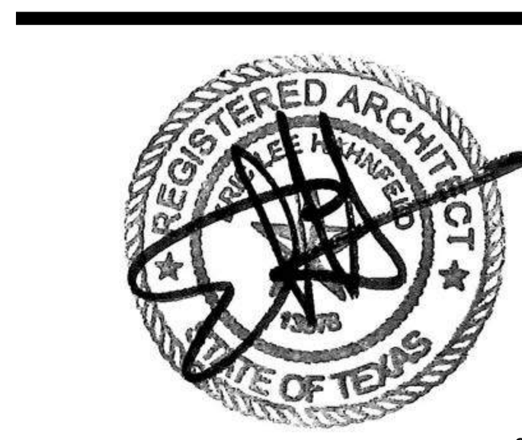

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

REVISIONS — DENOTED BY

PROJECT #: 21063-00F — MANAGER: GAR
ISSUED FOR: 100% CD — DRAFTER: VC
ISSUE DATE: 06.13.2022 — CHECKED: GAR

PARTITION TYPES SCHEDULE AND LEGEND

SHEET
A0-03

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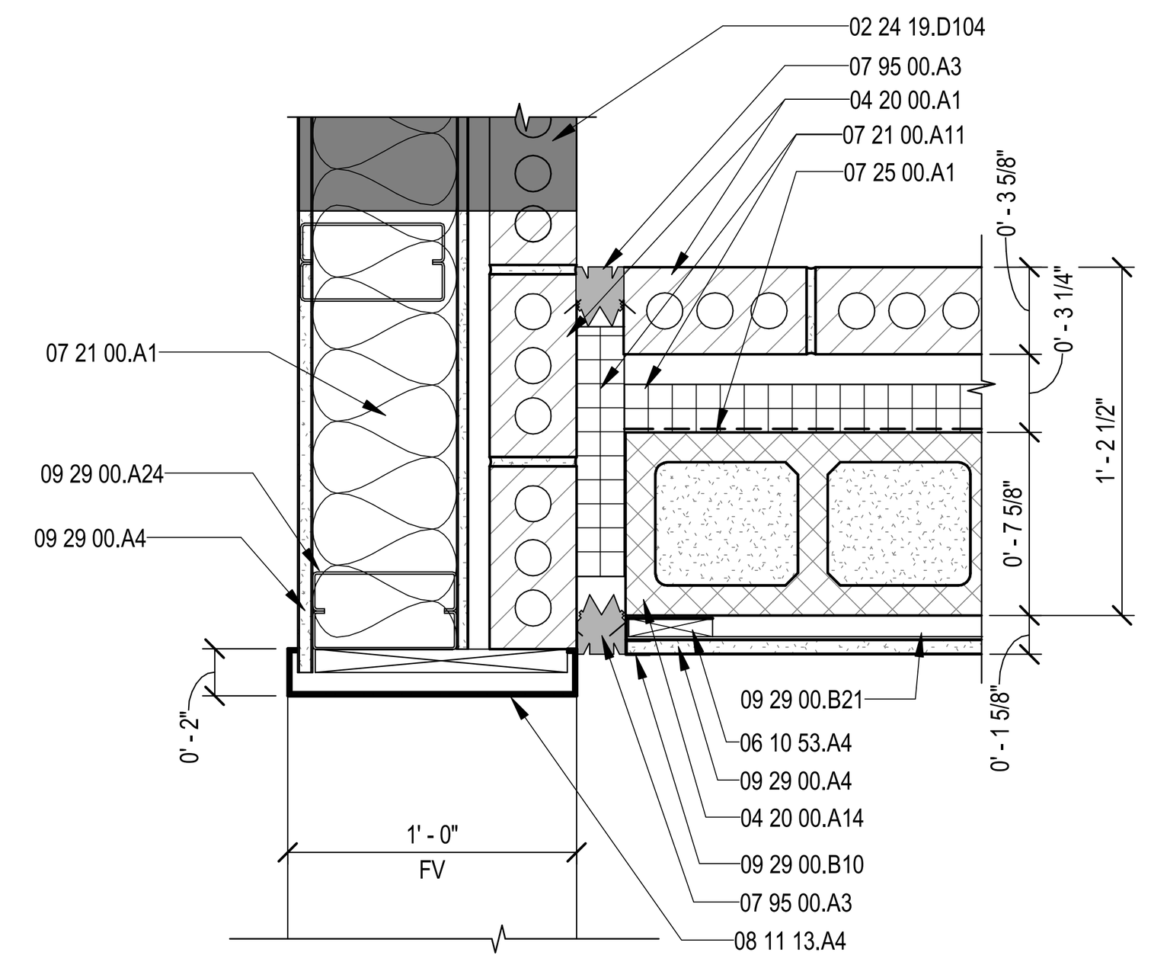
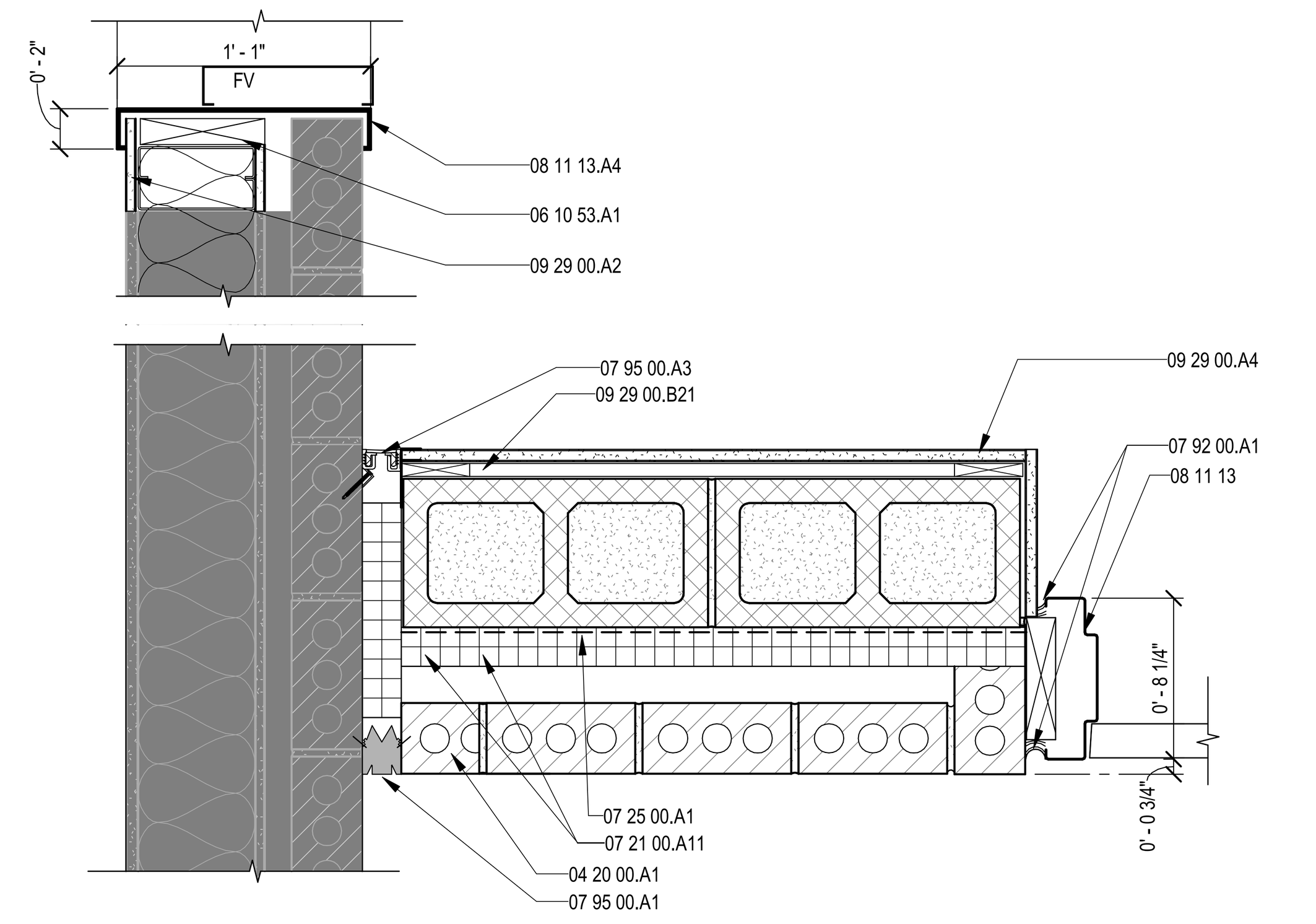
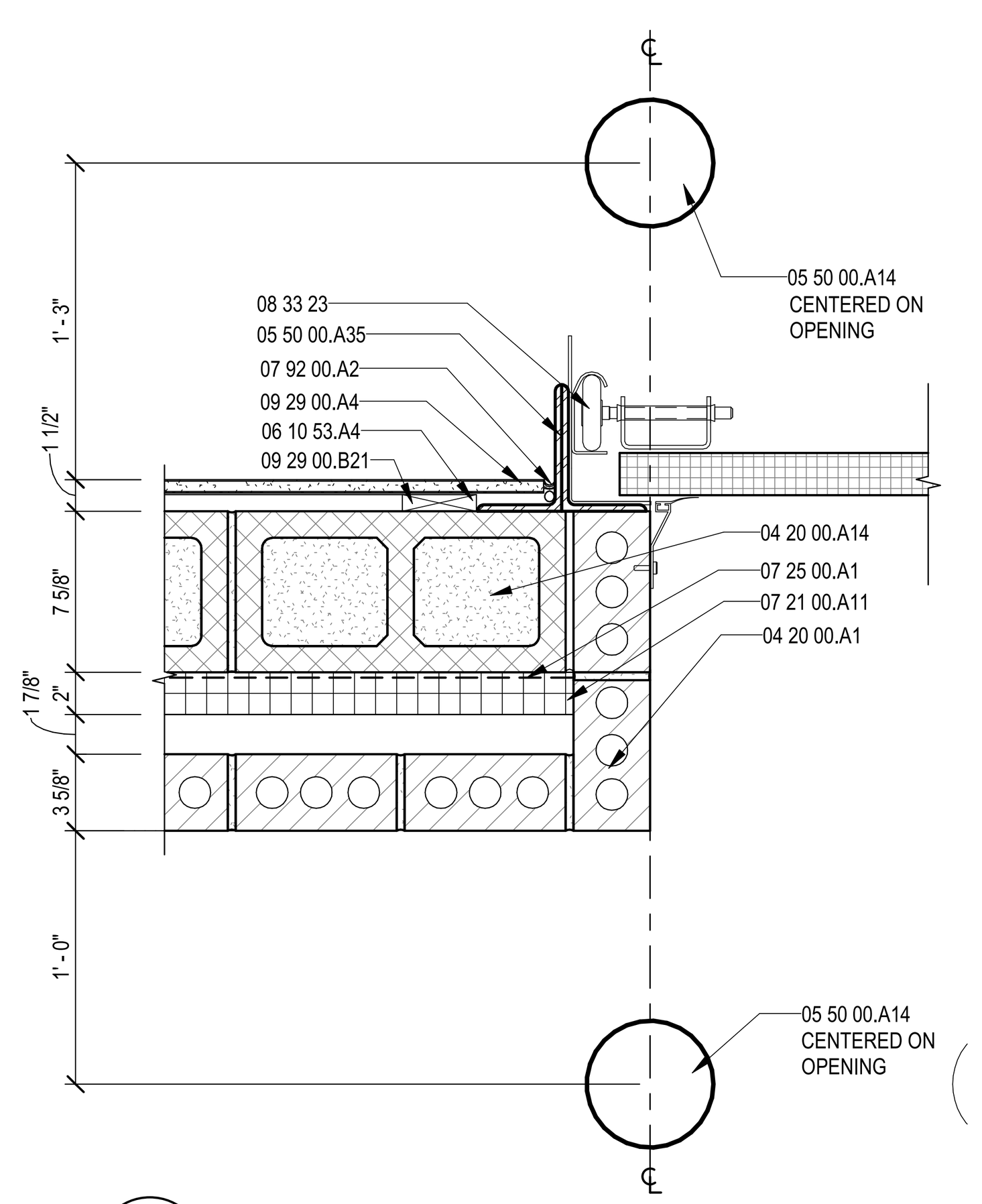


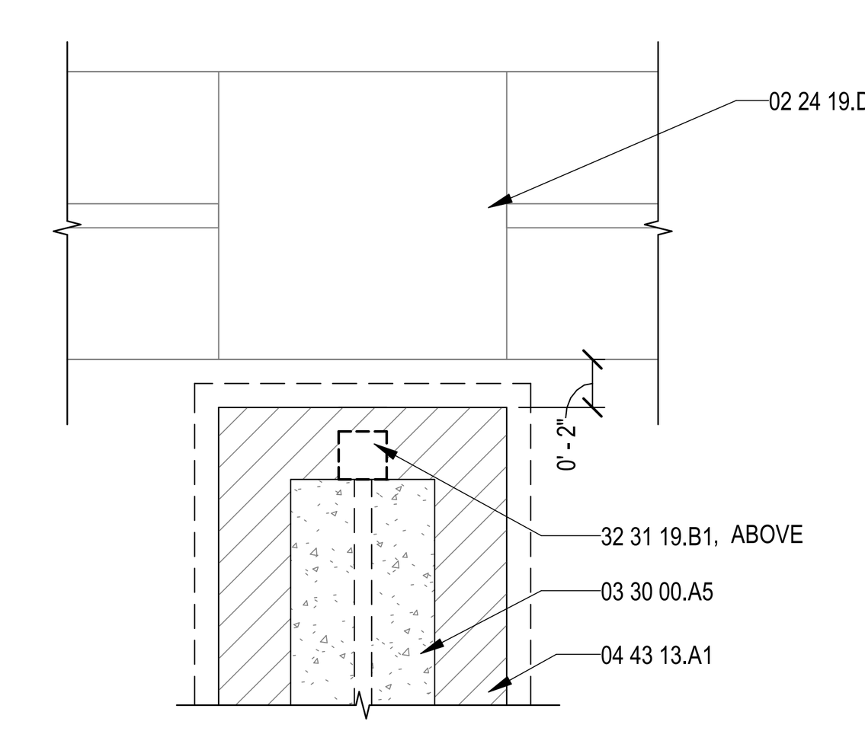
2 PLAN DETAIL
1 1/2" = 1'-0"



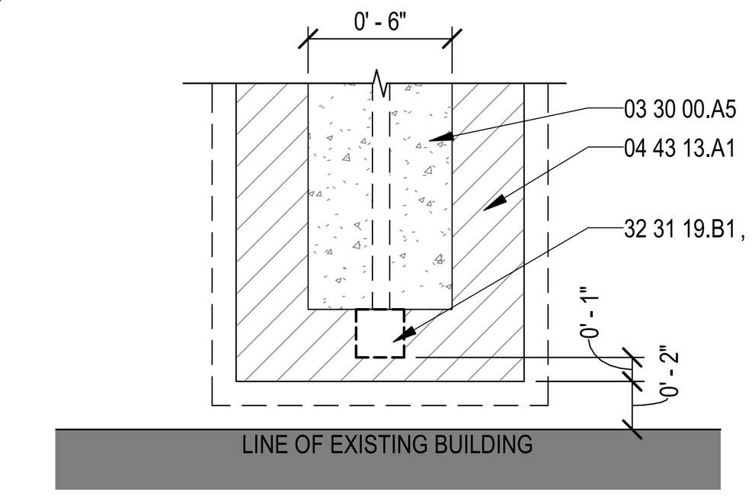
3 PLAN DETAIL
1 1/2" = 1'-0"



4 PLAN DETAIL
1 1/2" = 1'-0"



5 FENCE PLAN DETAIL
1 1/2" = 1'-0"



6 FENCE PLAN DETAIL
1 1/2" = 1'-0"

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1 1ST FLOOR PLAN
1/8" = 1'-0"

KEYED NOTES

02 24 19.D004	Existing fence to remain.
02 24 19.D104	Existing exterior wall to remain.
02 24 19.D111	Existing floor and base to remain; repair and patch as required to match existing.
03 30 00.A5	Concrete wall; see Structural.
03 30 00.A13	Concrete equipment base. Refer to Mech and Civil for size.
04 20 00.A1	Face brick.
04 20 00.A14	8" concrete masonry unit.
04 43 13.A1	Salvaged or new stone veneer masonry to match existing. (GC option)
05 50 00.A14	Pipe bollards, refer to detail 2/A0-02.
05 50 00.A35	(2) - 6 X 4 X 1/4" Steel Angle
06 10 53.A1	2x wood blocking.
06 10 53.A4	Nailer as required.
06 40 20.A1	Wood closure panel. Match existing millwork.
06 40 20.A5	Plastic laminate-clad countertop.
06 40 20.A68	Painted wood base molding, to match existing.
07 21 00.A1	Thermal batt insulation
07 21 00.A11	Rigid thermal insulation.
07 25 00.A1	Liquid membrane air infiltration barrier system.
07 92 00.A1	Sealant.
07 92 00.A2	Sealant w/ backer rod.
07 95 00.A1	Expansion joint cover.
07 95 00.A3	Wall/ceiling expansion joint cover.
08 11 13	Standard Steel Doors and Frames
08 11 13.A4	Steel cased opening frame.
08 33 23	Overhead Sectional Service Doors
09 29 00.A2	5/8" gypsum board.
09 29 00.A4	5/8" Moisture resistant gypsum board.
09 29 00.A24	6" metal stud framing.
09 29 00.B10	Gypsum board "J" molding.
09 29 00.B21	7/8" furring channel.
09 30 00.A1	Floor tile to match existing.
09 65 13.A2	Vinyl composition tile.
09 91 13.A1	Repair holes, and wall defects in room. Paint all walls; see Room Finish Schedule.
23 00 00.A2	New Condensing Unit; see Mechanical.
32 13 13.B5	Concrete Splash block.
32 31 19.B1	Steel fence post.

STA	ROOM SIGN TYPE, SEE SHEET A3-01 ST (STYLE TYPE), A (TYPE A)
CR	CARD READER BY OWNER, CONDUIT BY GC
(hatch)	AREA NOT IN CONTRACT

GENERAL NOTES

1. Dimensions on Plans are to face of stud, face of masonry, and column centerlines unless noted otherwise, and except at doors fixtures and partitions associated with handicap accessibility.
2. Refer to sheets G2-1 through G2-4 for typical dimensional requirements for handicap accessibility
3. Refer to sheet A0-03 for partition types details.
4. All interior stud wall partitions to be type "A3" unless noted otherwise.
5. Refer to A0 sheets for extent of non-rated acoustical partitions extending to deck.
6. Refer to wall sections and plan details for exterior wall types.
7. All interior gypsum board partitions and gypsum board ceilings require joint control at intersection with exterior walls.
8. Refer to sheet A0-01 for typical gypsum board partition control joint details and masonry expansion/control joint details.
9. Masonry infill and/or patching shall match the material, size, finish, color, texture and coursing of existing masonry to remain. New masonry shall be whole units toothed in to the existing masonry. No saw cut edges will be allowed. Mortar joints to match color, texture and profile of adjacent masonry.

REVISIONS — DENOTED BY #

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REGISTERED ARCHITECT — STATE OF TEXAS
06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

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PROJECT #: 21063-00F	MANAGER:GAR
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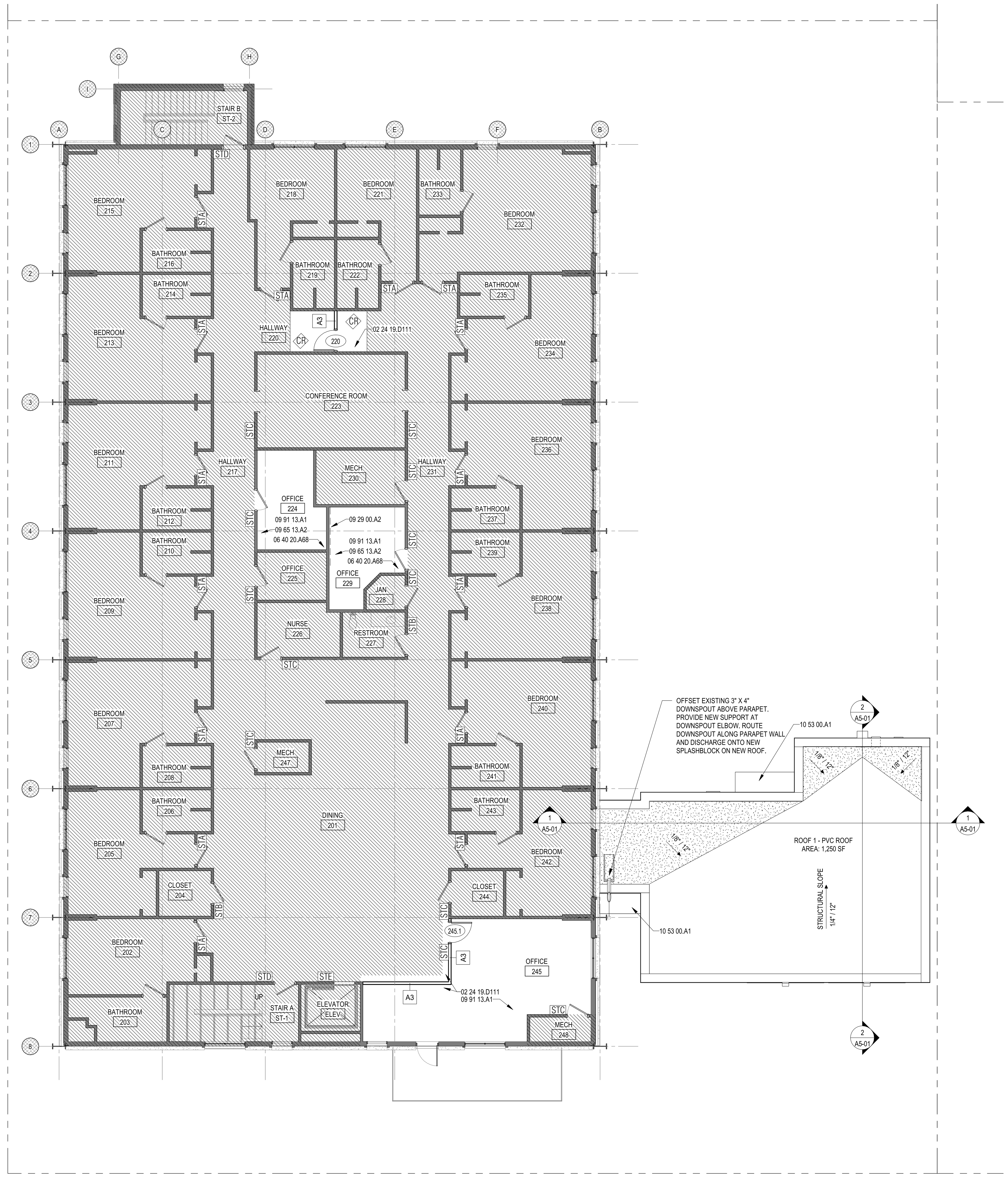
1ST FLOOR PLAN

SHEET
A1-01

KEYED NOTES

02 24 19.D111	Existing floor and base to remain; repair and patch as required to match existing.
06 40 20.A68	Painted wood base molding, to match existing.
09 29 00.A2	5/8" gypsum board.
09 65 13.A2	Vinyl composition tile.
09 91 13.A1	Repair holes, and wall defects in room. Paint all walls; see Room Finish Schedule.
10 53 00.A1	Extruded Aluminum Overhead Support Canopy.



PLAN NORTH

1 2ND FLOOR PLAN
1/8" = 1'-0"

Symbol	Description
STA	ROOM SIGN TYPE, SEE SHEET A3-01 ST (STYLE TYPE), A (TYPE A)
CR	CARD READER BY OWNER, CONDUIT BY GC
(hatch)	AREA NOT IN CONTRACT

GENERAL NOTES

1. Dimensions on Plans are to face of stud, face of masonry, and column centerlines unless noted otherwise, and except at doors fixtures and partitions associated with handicap accessibility.
2. Refer to sheets G2-1 through G2-4 for typical dimensional requirements for handicap accessibility
3. Refer to sheet A0-03 for partition types details.
4. All interior stud wall partitions to be type "A3" unless noted otherwise.
5. Refer to A0 sheets for extent of non-rated acoustical partitions extending to deck.
6. Refer to wall sections and plan details for exterior wall types.
7. All interior gypsum board partitions and gypsum board ceilings require joint control at intersection with exterior walls.
8. Refer to sheet A0-01 for typical gypsum board partition control joint details and masonry expansion/control joint details.
9. Masonry infill and/or patching shall match the material, size, finish, color, texture and coursing of existing masonry to remain. New masonry shall be whole units toothed in to the existing masonry. No saw cut edges will be allowed. Mortar joints to match color, texture and profile of adjacent masonry.

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2ND FLOOR PLAN

SHEET
A1-02

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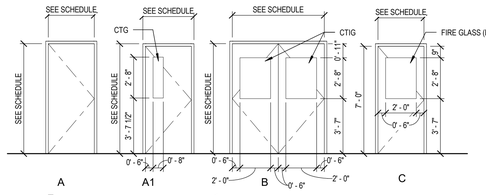
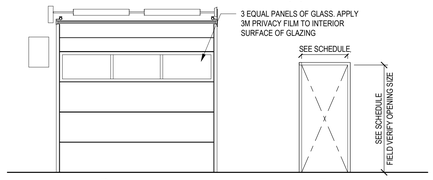
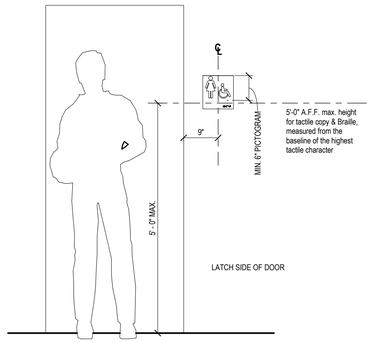
DOOR TYPES

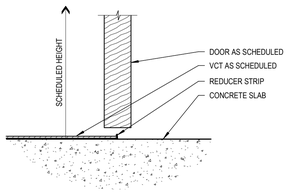




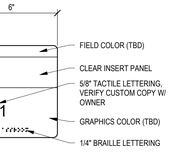


1 SIGNAGE MOUNTING DETAIL
3/4" = 1'-0"

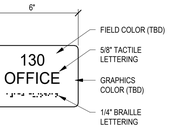
13 EXISTING WOOD BASE
1 1/2" = 1'-0" FOR INFORMATION ONLY



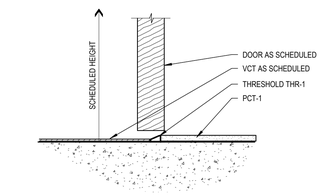
16 FLOOR DETAIL - VCT TO CONCRETE - TYP
3" = 1'-0"



3 DOOR JAMB DETAIL
1 1/2" = 1'-0"

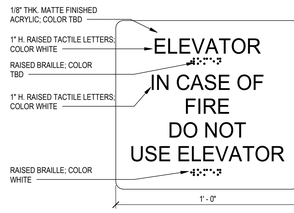


4 SIGNAGE TYPE A
3" = 1'-0"



15 FLOOR DETAIL - VCT TO PORCELAIN
3" = 1'-0"

13 EXISTING WOOD BASE
1 1/2" = 1'-0" FOR INFORMATION ONLY



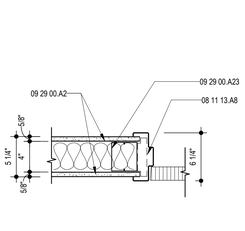
8 SIGNAGE TYPE E
3" = 1'-0"

15 FLOOR DETAIL - VCT TO PORCELAIN
3" = 1'-0"

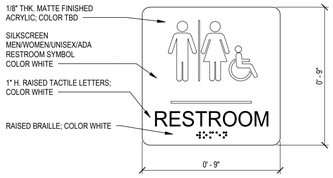
TOILET ACCESSORIES

TOILET ROOM 162 SHALL HAVE:

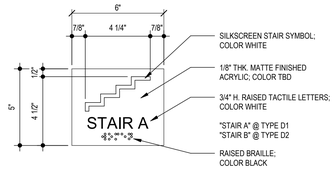
1 GRAB BAR	(B) B-6987
1 TOILET TISSUE DISPENSER	(GP) 59209
1 SANITARY NAPKIN DISPOSAL	(B) B-2504
1 FRAMED MIRROR	(B) B-290 24" X 36"
1 SOAP DISPENSER	(GP) 52057
1 PAPER TOWEL DISPENSER	(GP) 59462A
1 RECESSED WASTE RECEPTACLE	(B) B-3644



2 DOOR HEAD DETAIL
1 1/2" = 1'-0"



5 SIGNAGE TYPE B
3" = 1'-0"



7 SIGNAGE TYPE D
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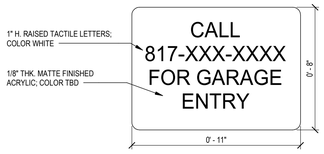
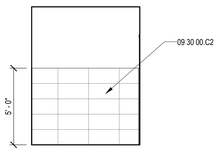
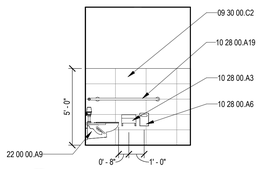


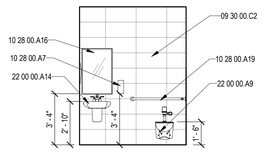
17 SIGNAGE TYPE F
3" = 1'-0"



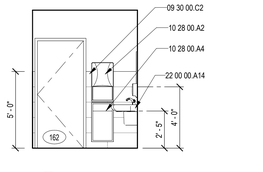
14 BACK WALL ELEVATION
1/4" = 1'-0"



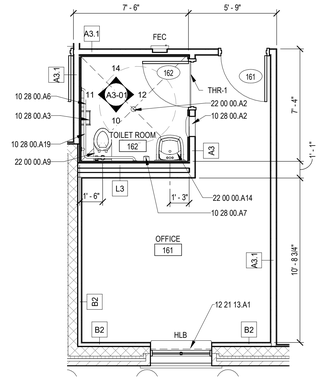
11 SIDE WALL ELEVATION
1/4" = 1'-0"



10 WET WALL ELEVATION
1/4" = 1'-0"



12 DOOR WALL ELEVATION
1/4" = 1'-0"



N
PLAN NORTH

9 ENLARGED FLOOR PLAN
1/4" = 1'-0"

DOOR SCHEDULE

MARK	TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	RATING FIRE	RATING ACOUS.	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	VISION PANEL
133.1	A	3' - 0"	7' - 0"	SCW	DR-1	STL	---	---	-	-	-	-	---
134.1	A	3' - 0"	7' - 0"	SCW	DR-1	STL	---	---	-	-	-	-	---
150	E	3' - 0"	7' - 0"	---	---	HM	PT-3	---	-				---
155.1	A	3' - 0"	7' - 0"	SCW	DR-1	STL	PT-3	---	-	-	-	-	---
159.2	B	6' - 0"	7' - 2"	HM	PT-3	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	24 X 32
159.4	D	10' - 0"	8' - 8"		PT-3		PT-3	---	-	6/A5-11	4/A1-11	4/A1-11	
159.5	D	10' - 0"	8' - 8"		PT-3		PT-3	---	-	6/A5-11	4/A1-11	4/A1-11	
161	A1	3' - 0"	7' - 0"	HM	DR-1	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	8 X 32
162	A	3' - 0"	7' - 0"	SCW	DR-1	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	---
163	A	3' - 0"	7' - 2"	HM	PT-3	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	---
164.1	A1	3' - 0"	7' - 0"	HM	PT-3	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	8 X 32
164.2	A1	3' - 0"	7' - 0"	HM	PT-3	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	8 X 32
165	A1	3' - 0"	7' - 0"	HM	PT-3	HM	PT-3	---	-	2/A3-01	3/A3-01	3/A3-01	8 X 32
220	A	3' - 0"	7' - 0"	SCW	DR-1	STL	---	---	-	-	-	-	---
245.1	A	3' - 0"	7' - 0"	SCW	DR-1	STL	---	---	-	-	-	-	---
ST-1.1	C	3' - 0"	7' - 0"	SCW	DR-1	HM	PT-3	1 HOUR	-	2/A3-01	3/A3-01	3/A3-01	24 X 32

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	MILLWORK CTRTOP/ SPLASH	NOTES	ROOM NUMBER
131	PSYCH OFFICE	VCT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-2	-		131
156	LAUNDRY	-	-	PT-1	PT-1	PT-1	PT-1	-	MATCH EX		156
159	GARAGE	EPOXY	RB-1	PT-1	PT-1	PT-1	PT-1	PT-2	-		159
161	OFFICE	VCT-1	WB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	-	HLB-1	161
162	TOILET ROOM	PCT-1	-	PCT-2/PT-1	PCT-2/PT-1	PCT-2	PCT-2/PT-1	PT-2	-		162
163	STORAGE	EPOXY	RB-1	PT-1	PT-1	PT-1	PT-1	PT-2	-		163
164	VESTIBULE	VCT-1	RB-1	PT-1	PT-1	PT-1	-	PT-2	-		164
165	ENTRY	VCT-1	RB-1	PT-1	PT-1	PT-1	-	PT-2	-		165
224	OFFICE	VCT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-2	-		224
229	OFFICE	VCT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-2	-		229
245	OFFICE	-	WB-1	PT-1	PT-1	PT-1	PT-1	PT-2	-		245

MATERIAL SCHEDULE

FINISH CODE	DESCRIPTION
FLOORS	
EPOXY	COLOR TBD
PCT-1	PORCELAIN TILE/FLOORS: DALTILE, PORTFOLIO COLORBODY PORCELAIN, COLOR: 'NOCE' PF11, SIZE: 12'X24'X3/8, FINISH: UNPOLISHED, USE GRT-1.
VCT-1	VINYL COMPOSITION TILE: ARMSTRONG FLOORING, STANDARD EXCELON, PEBBLE TAN, 51928, 12IN. X 12 IN.
GRT-1	GROUT/FLOOR: CBP, FUSION PRO, #186 KHAKI
THR-1	THRESHOLD:PCT TO VCT:SCHLUTER, RENO-U, STAINLESS STEEL V2A, BRUSHED, HEIGHT: 3/8. NOTE: CONTRACTOR TO VERIFY HEIGHT PRIOR TO INSTALLATION.
THR-2	THRESHOLD: VCT TO EPOXY: TARKETT, SLIMLINE TRANSITION, 1/8" TO SUBFLOOR, "STEEL" # 179, SLT 179J.
BASE	
RB-1	VINYL WALL BASE, ROPPE, CONTOURS PROFILE, 4 1/2" HIGH PV4045 #45 NOVEL
WB-1	WOOD BASE: PAINT GRADE WOOD BASE, PAINT: VALSPAR SIGNATURE SERIES, COLOR TO MATCH EXISTING, FINISH: HIGH GLOSS SHEEN. REFER DETAIL 13/A3-01 FOR TRIM PROFILE
WALLS	
PCT-2	PORCELAIN WALL TILE: DALTILE, PORTFOLIO COLORBODY PORCELAIN, COLOR: 'CREME' PF07, SIZE: 12'X24'X3/8, FINISH: UNPOLISHED, USE GRT-2. INSTALL: PER ELEVATIONS
PT-1	PAINT/TYPICAL: VALSPAR SIGNATURE SERIES, 7002-20, COLOR: ANTIQUE WHITE, FINISH: EGG SHELL SHEEN
GRT-2	GROUT/WALLS: CBP. FUSION PRO, #172 URBAN PUTTY
CEILINGS	
PT-2	PAINT/GYPSUM CEILING: VALSPAR SIGNATURE SERIES, COLOR TO MATCH EXISTING, FINISH: FLAT SHEEN
ACP-1	CEILING TILE, ARMSTRONG WORLD INDUSTRIES, INC., "FINE FISSURED" NO. 1728. SIZE: 2' X 2' X 5/8"
OTHER	
DR-1	STAIN: COLOR TO MATCH EXISTING DOORS
PT-3	PAINT/ HOLLOW METAL DOOR AND FRAMES: VALSPAR ULTRA, COLOR TO MATCH EXISTING FRAMES, FINISH: SEMI-GLOSS. NOTE: USE THIS PAINTED FINISH UNLESS NOTED OTHERSIDE BY TENANT
HLB-1	HORIZONTAL LOUVER BLINDS
THR-1	THRESHOLD: SCHLUTER, RENO-U, ALUMINUM

ROOM IDENTIFICATION SCHEDULE

ROOM NUMBER	ROOM NAME	SIGN TYPE	QUANTITY
102	CLOSET	TYPE C	1
103	INTAKE	TYPE C	2
104	CLOSET	TYPE C	1
105	LIVING	TYPE C	1
106	NURSE	TYPE C	1
108	OBSERVATION	TYPE C	1
110	BEDROOM	TYPE A	1
113	BEDROOM	TYPE A	1
115	BEDROOM	TYPE A	1
117	BEDROOM	TYPE A	1
119	BEDROOM	TYPE A	1
121	BEDROOM	TYPE A	1
123	BEDROOM	TYPE A	1
124	CONFERENCE	TYPE C	1
125	RESTROOM	TYPE B	1
126	MECH	TYPE C	1
127	JAN	TYPE C	1
128	OFFICE	TYPE C	1
129	RESTROOM	TYPE B	1
131	PSYCH OFFICE	TYPE C	1
132	OFFICE	TYPE C	1
133	UTILITY	TYPE C	1
137	BEDROOM	TYPE A	1
139	BEDROOM	TYPE A	1
141	BEDROOM	TYPE A	1
143	BEDROOM	TYPE A	1
145	BEDROOM	TYPE A	1
147	BEDROOM	TYPE A	1
149	BEDROOM	TYPE A	1
150	DINING	TYPE C	2
151	CLOSET	TYPE C	1
152	PANTRY	TYPE C	1
155	KITCHEN	TYPE C	1
156	LAUNDRY	TYPE C	1
157	ELEC	TYPE C	1

ROOM IDENTIFICATION SCHEDULE

ROOM NUMBER	ROOM NAME	SIGN TYPE	QUANTITY
158	CLOSET	TYPE C	1
159	GARAGE	TYPE C	1
161	OFFICE	TYPE C	1
162	TOILET ROOM	TYPE B	1
163	STORAGE	TYPE C	1
201	DINING	TYPE C	1
202	BEDROOM	TYPE A	1
205	BEDROOM	TYPE A	1
207	BEDROOM	TYPE A	1
209	BEDROOM	TYPE A	1
211	BEDROOM	TYPE A	1
213	BEDROOM	TYPE A	1
215	BEDROOM	TYPE A	1
218	BEDROOM	TYPE A	1
223	CONFERENCE ROOM	TYPE C	2
224	OFFICE	TYPE C	1
225	OFFICE	TYPE C	1
226	NURSE	TYPE C	1
227	RESTROOM	TYPE B	1
228	JAN	TYPE C	1
229	OFFICE	TYPE C	1
230	MECH	TYPE C	1
232	BEDROOM	TYPE A	1
234	BEDROOM	TYPE A	1
236	BEDROOM	TYPE A	1
238	BEDROOM	TYPE A	1
240	BEDROOM	TYPE A	1
242	BEDROOM	TYPE A	1
244	CLOSET	TYPE C	1
245	OFFICE	TYPE C	1
247	MECH	TYPE C	1
248	MECH	TYPE C	1
ELEV	ELEVATOR	TYPE E	2
ST-1	STAIR A	TYPE D	2
ST-2	STAIR B	TYPE D	1

KEYED NOTES

06 10 53.A4	Nailer as required.
07 21 00.A12	Acoustical batt insulation.
08 11 13.A1	Steel door frame.
08 11 13.A8	Jamb anchors; minimum of three per jamb.
09 29 00.A2	5/8" gypsum board.
09 29 00.A23	3-5/8" metal stud framing.
09 30 00.C2	Porcelain tile wall.
10 28 00.A2	Paper towel dispenser.
10 28 00.A3	Toilet tissue dispenser.
10 28 00.A4	Waste receptacle.
10 28 00.A6	Sanitary napkin disposal.
10 28 00.A7	Soap dispenser.
10 28 00.A16	Framed mirror.
10 28 00.A19	Grab bar.
12 21 13.A1	Horizontal louver blinds.
22 00 00.A2	Floor drain; see Plumbing.
22 00 00.A9	Plumbing fixture; see Plumbing.
22 00 00.A14	Lavatory; see Plumbing.

GENERAL NOTES

1. Door, window and frame sizes are nominal only. For conditions at gypsum board assemblies, provide rough and finish openings to coordinate with sizes shown. For masonry conditions, coordinate door, window and frames with actual masonry dimensions. Use manufacturer recommendations for clearances around all openings.
2. Provide continuous sealant with properly sized backer rod each side of frame. Sealant color to be selected by Architect.
3. Provide shims as required to achieve plumb and square frames on all sides.
4. Provide a minimum of three (3) jamb anchors each side of hollow steel frames.
5. Exterior hollow metal doors are to be insulated.

REVISIONS DENOTED BY #

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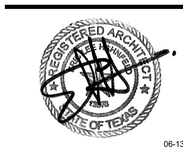

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

DOOR AND WINDOW SCHEDULES AND ELEVATIONS

SHEET
A3-01

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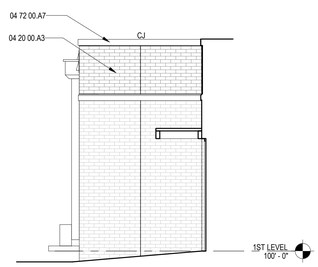
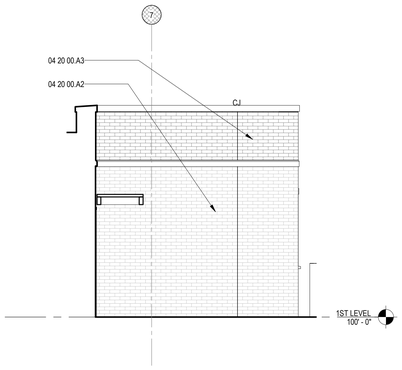
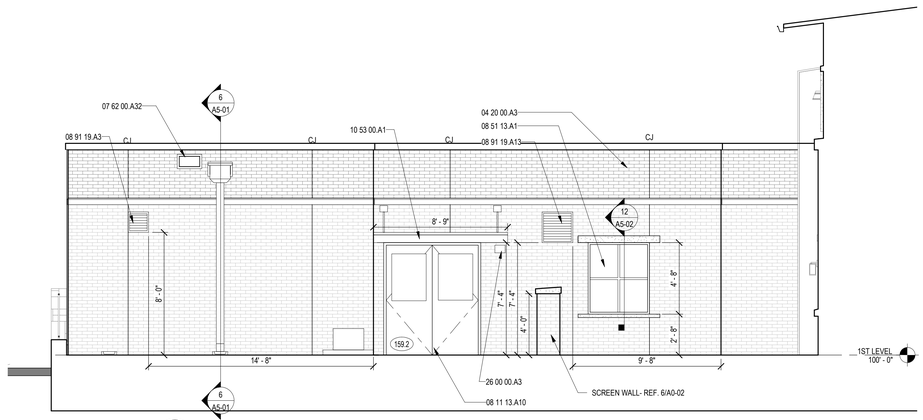


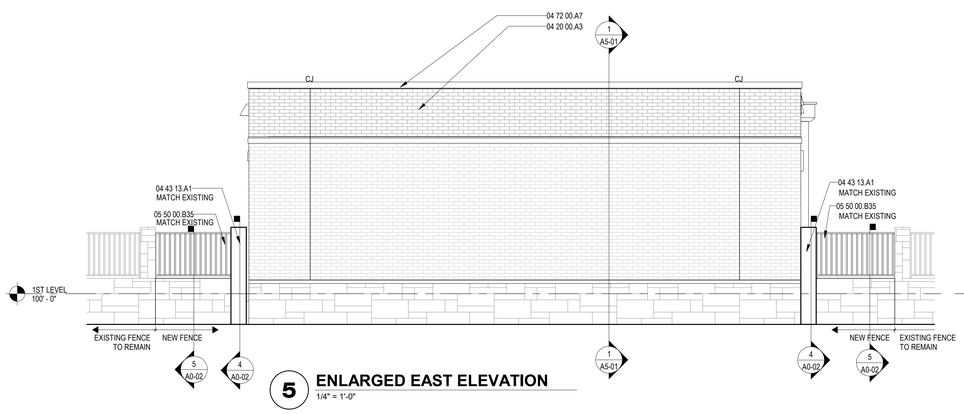
7 ENLARGED WEST ELEVATION AT STORAGE ROOM
1/4" = 1'-0"



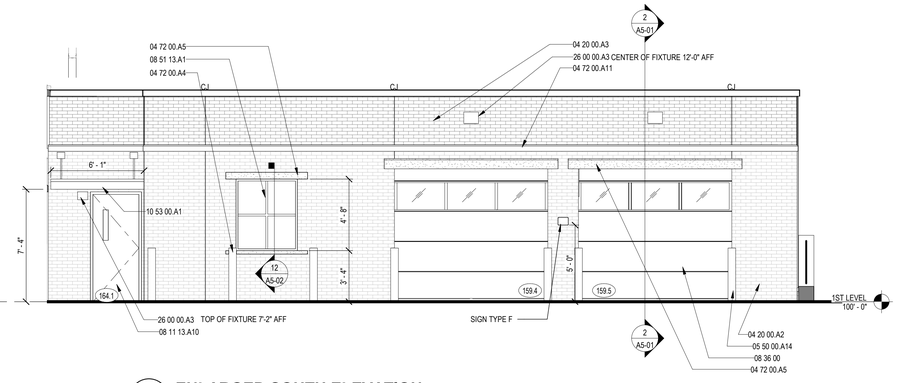
6 ENLARGED WEST ELEVATION
1/4" = 1'-0"



4 ENLARGED PARTIAL NORTH ELEVATION
1/4" = 1'-0"



5 ENLARGED EAST ELEVATION
1/4" = 1'-0"



3 ENLARGED SOUTH ELEVATION
1/4" = 1'-0"

2 OVERALL EAST ELEVATION
1/8" = 1'-0"

1 OVERALL SOUTH ELEVATION
1/8" = 1'-0"

KEYED NOTES

04 20 00.A2	Face brick, field.
04 20 00.A3	Face brick, accent.
04 43 13.A1	Salvaged or new stone veneer masonry to match existing. (GC option)
04 72 00.A4	Cast stone sill.
04 72 00.A5	Cast stone lintel.
04 72 00.A7	Cast stone coping.
04 72 00.A11	Cast stone profile.
05 50 00.A14	Pipe bollards, refer to detail 2/A0-02.
05 50 00.B35	Steel picket fence; 2" square tube top, bottom, and side rails w/ 1" square tube at 4" o.c. to match existing fence.
07 62 00.A32	Prefinished sheet metal through wall scupper.
08 11 13.A10	Steel door and frame.
08 36 00	Sectional Overhead Doors
08 51 13.A1	Aluminum window.
08 91 19.A3	Exhaust louver (16" x 16"); see Mechanical.
08 91 19.A13	Return louver (24" x 24"); see Mechanical.
10 53 00.A1	Extruded Aluminum Overhead Support Canopy.
26 00 00.A3	Lighting fixture; see Electrical.

GENERAL NOTES

1. Datum elevation 100'-0" is equal to 661.10 MSL.
2. All steel exposed to weather shall be galvanized, including railings.

REVISIONS DENOTED BY /#\

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Fort Worth, Texas 76116
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REGISTERED ARCHITECT VICTOR CASTILLO 25828 STATE OF TEXAS

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

OVERALL EXTERIOR ELEVATIONS

SHEET
A4-01

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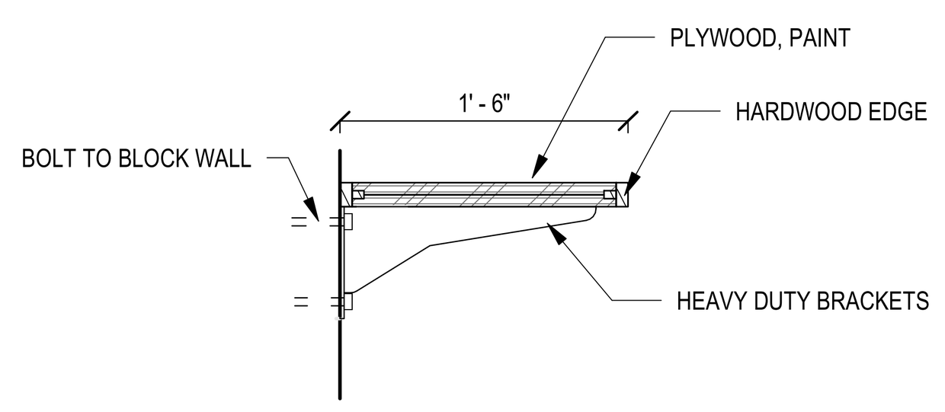
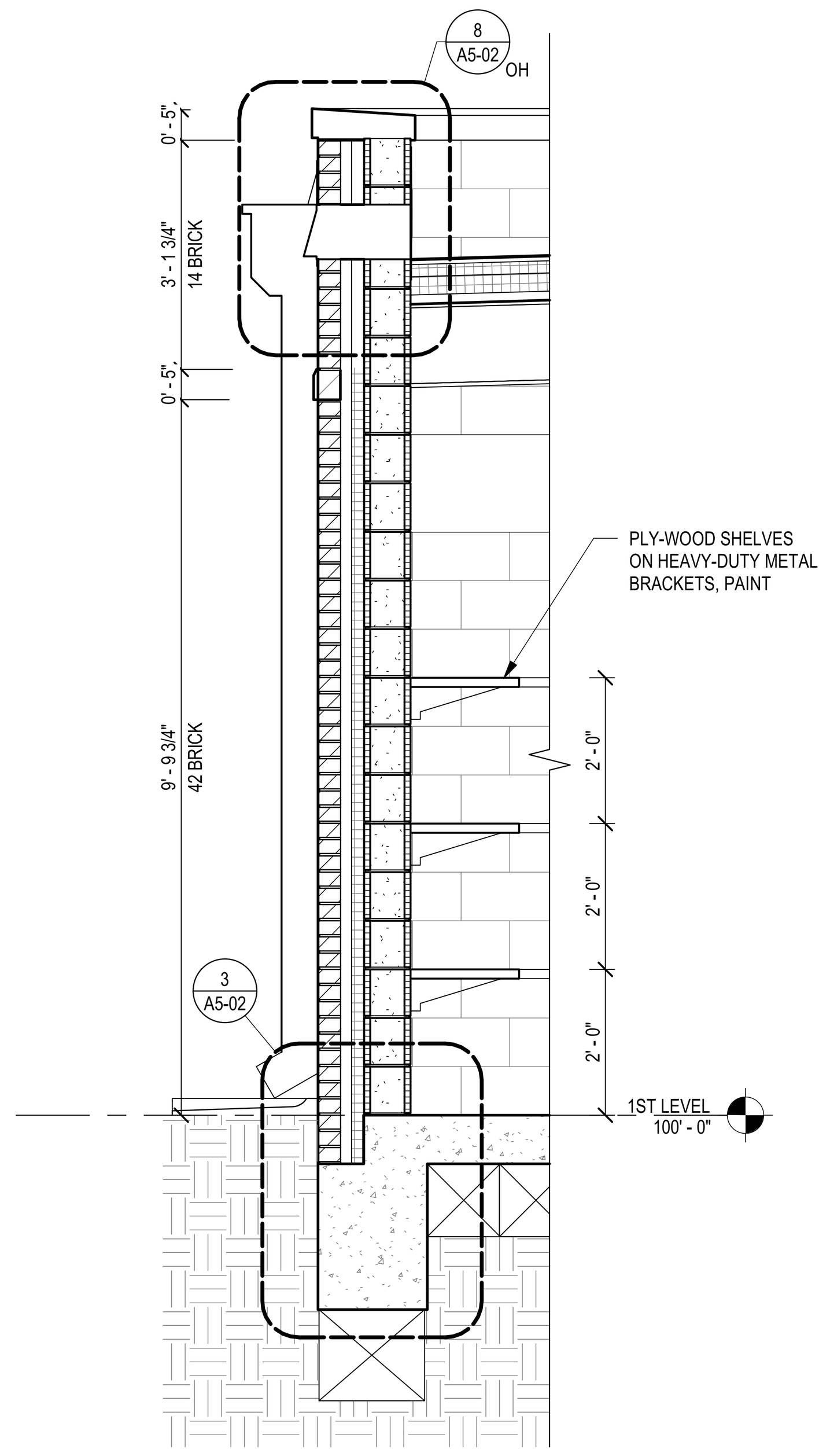
KEYED NOTES

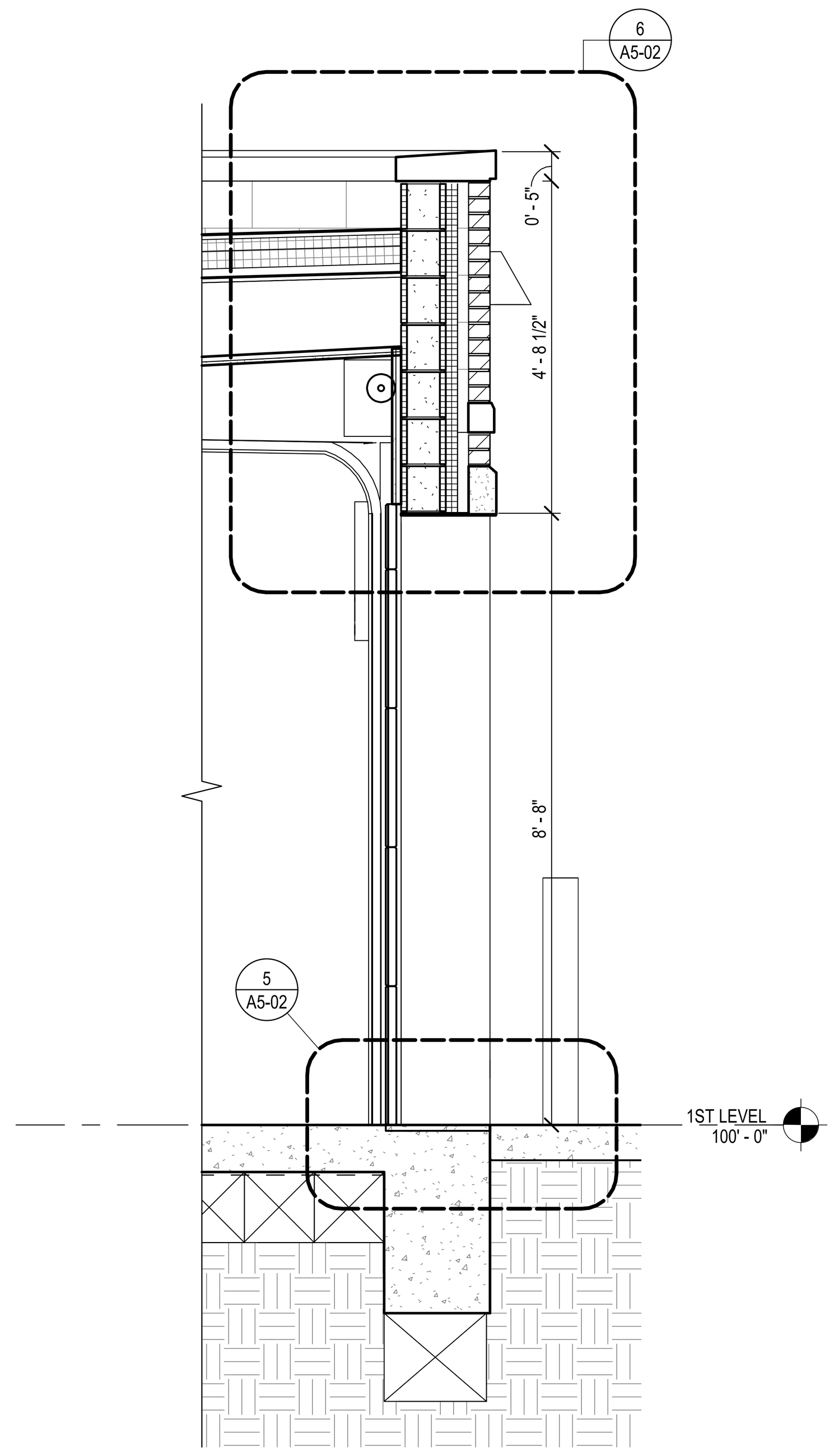
08 91 19.A3	Exhaust louver (16" x 16"); see Mechanical.
08 91 19.A13	Return louver (24" x 24"); see Mechanical.
22 00 00.A16	Hose bibb in s.s. box; see Plumbing.



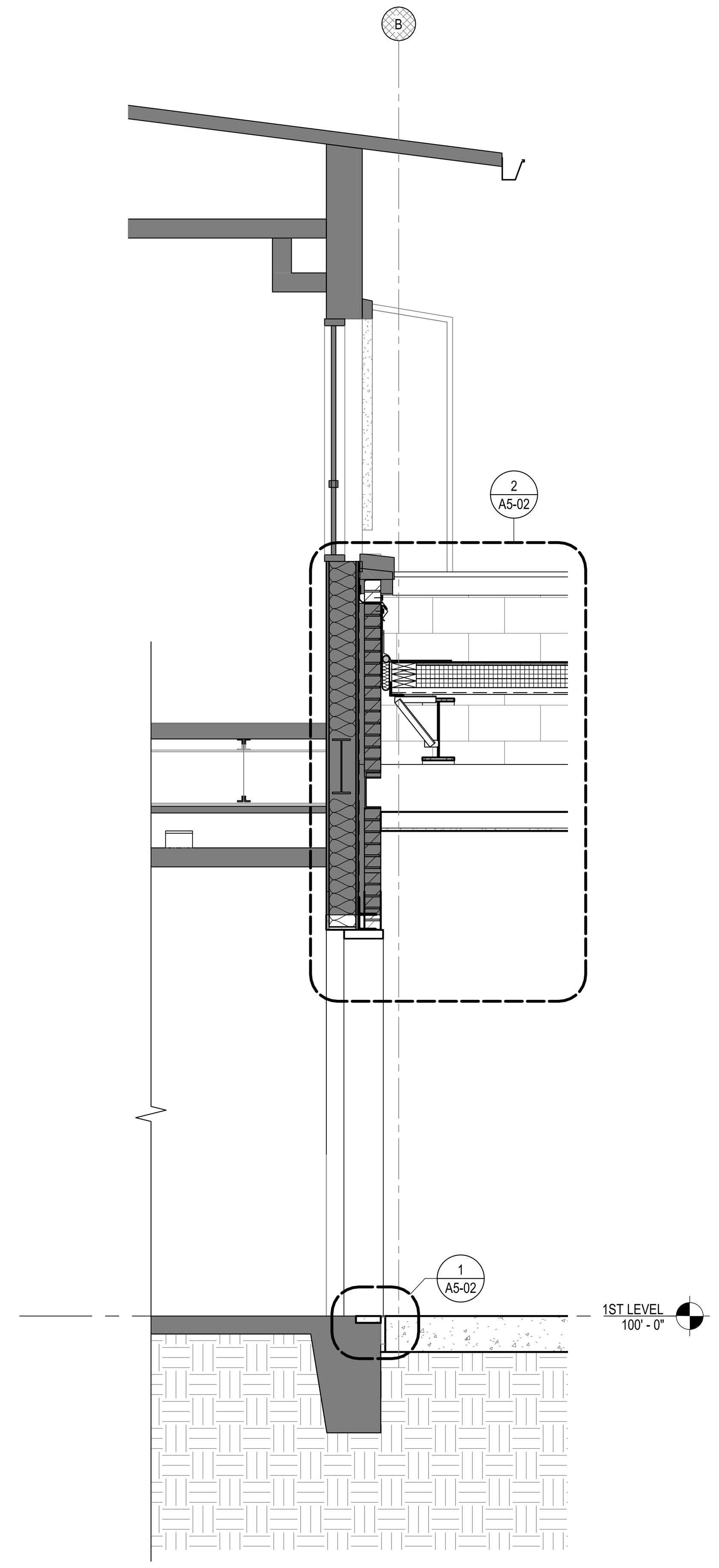
7 **MILLWORK SECTION**
1" = 1'-0"



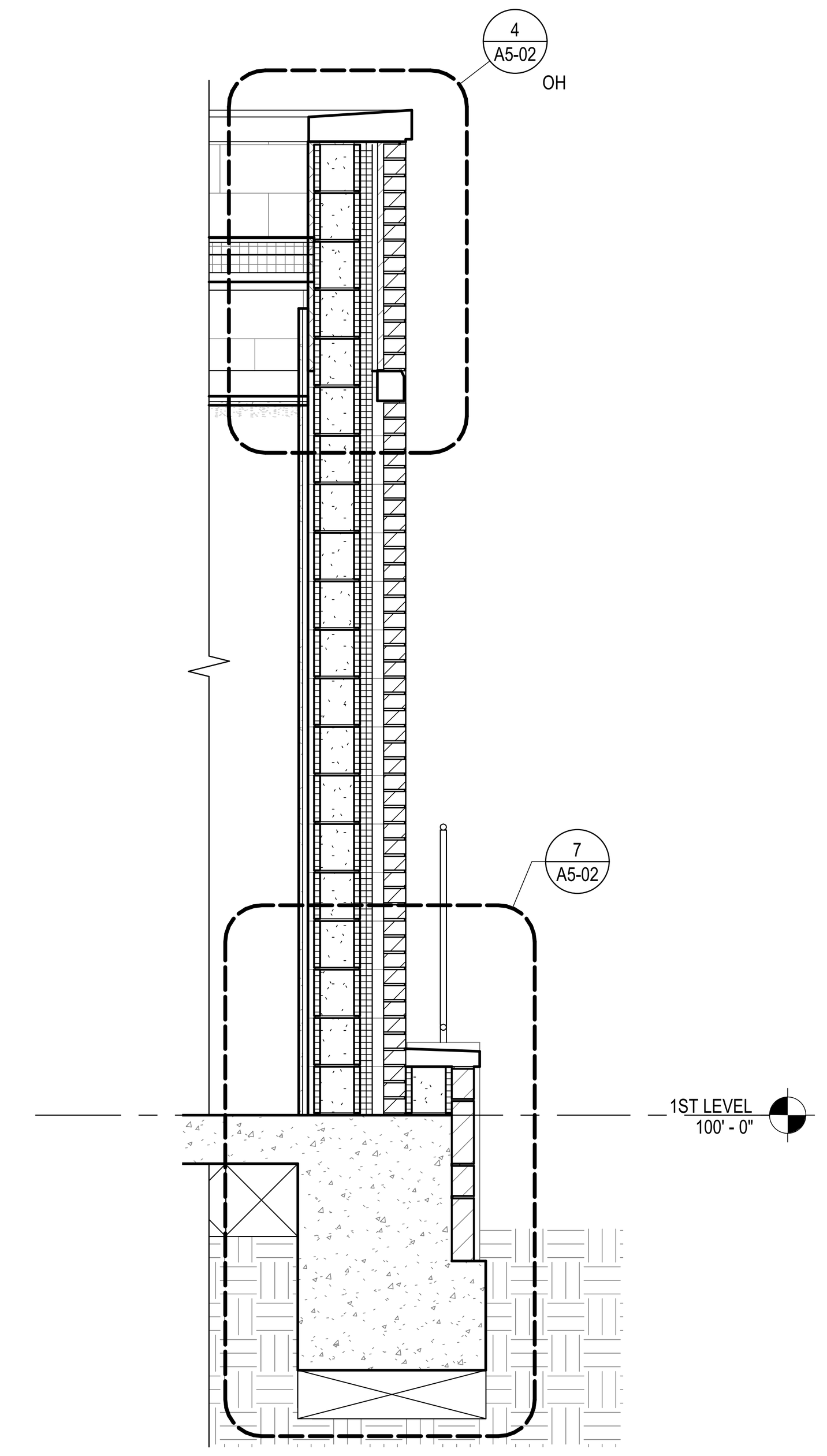
6 **WALL SECTION**
1/2" = 1'-0"



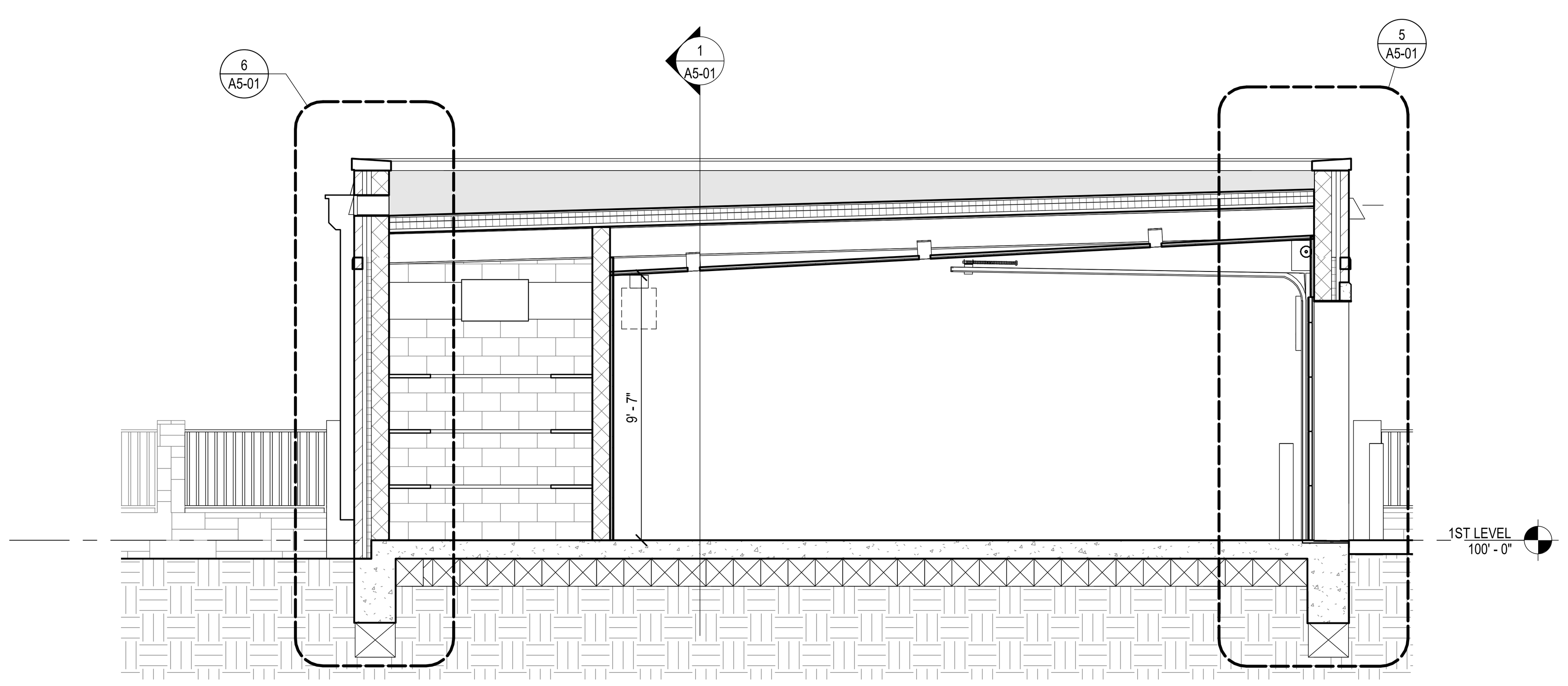
5 **WALL SECTION**
1/2" = 1'-0"



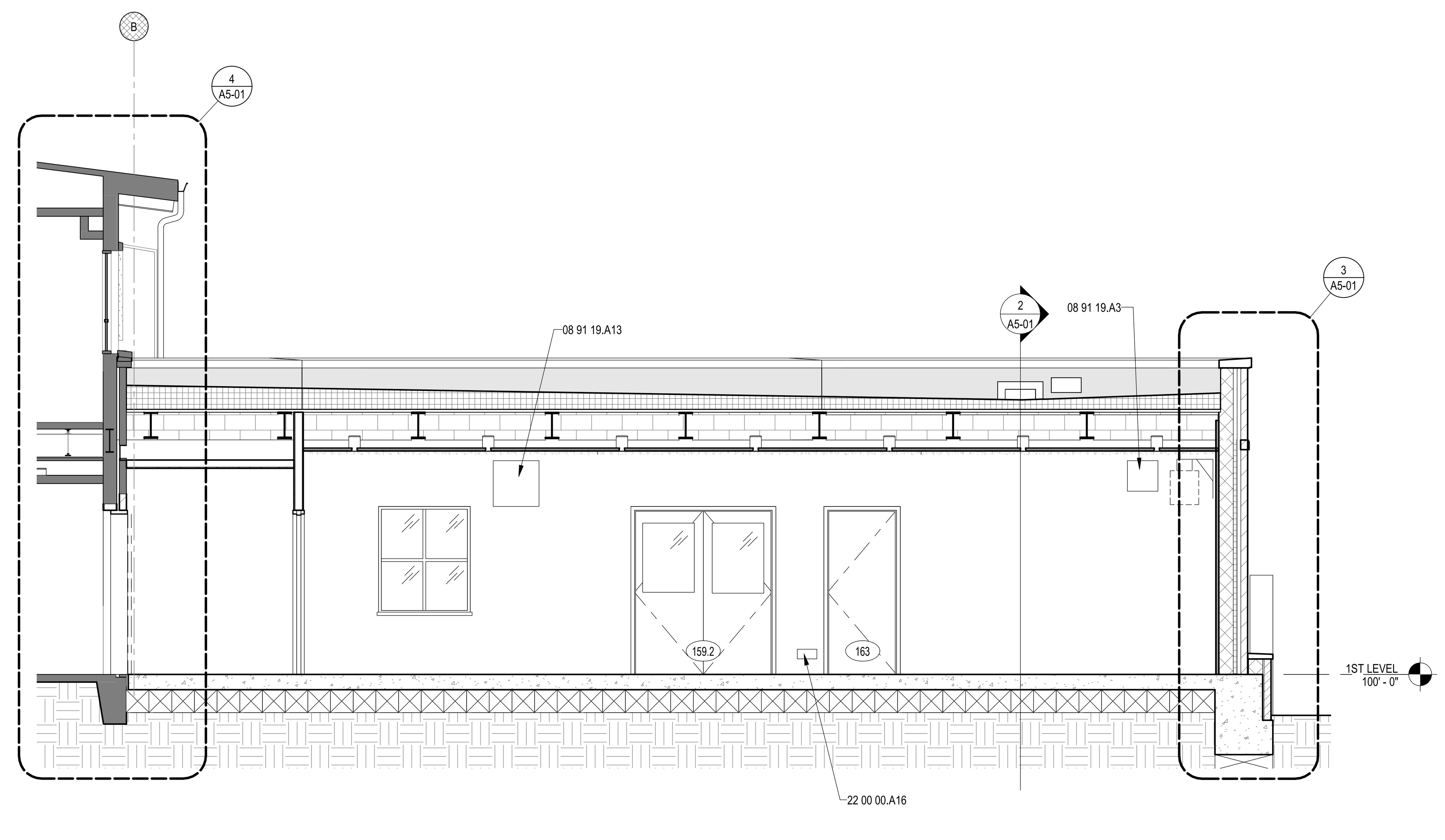
4 **WALL SECTION**
1/2" = 1'-0"



3 **WALL SECTION**
1/2" = 1'-0"



2 **BUILDING SECTION**
1/4" = 1'-0"



1 **BUILDING SECTION**
1/4" = 1'-0"

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06-13-2022

GENERAL NOTES

1. Datum elevation 100'-0"" is equal to 661.01" MSL.
2. Refer to A4 sheets for Exterior Elevations depicting and locating exterior finishes.
3. Refer to scheduled door, window and opening details for required support structure, blocking and other attachment and support items. Also refer to structural for additional items at scheduled openings. Door, window and opening details are not referenced within these sections. These details are referenced within the Door/Opening schedule
4. Refer to structural for framing configurations, elevations and sizes.
5. Drape top of parapet framing with flexible flashing membrane prior to metal cap installation.
6. Openings will be flashed and sealed tight. Refer to Project Manual.

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

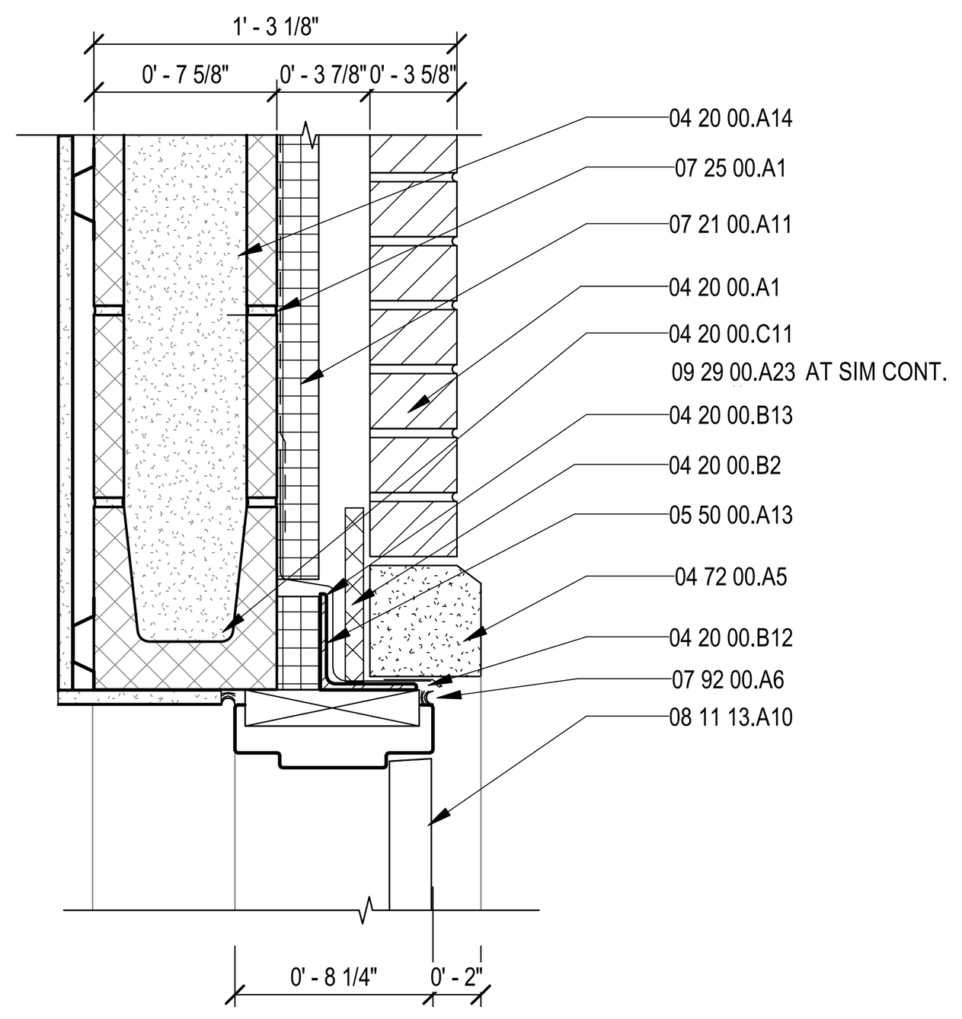
REVISIONS — DENOTED BY

PROJECT #: 21063-00F	MANAGER:GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

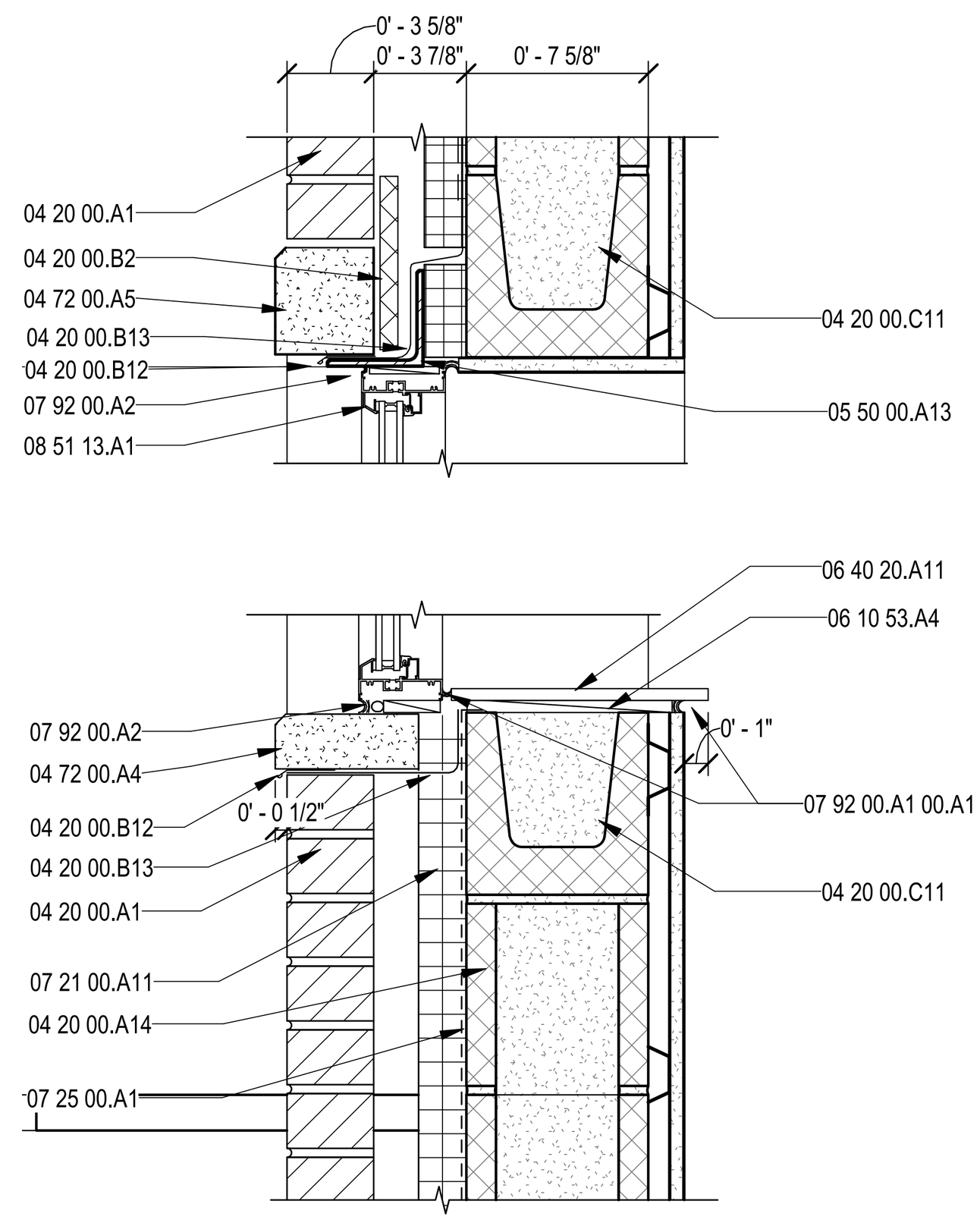
BUILDING SECTIONS

SHEET

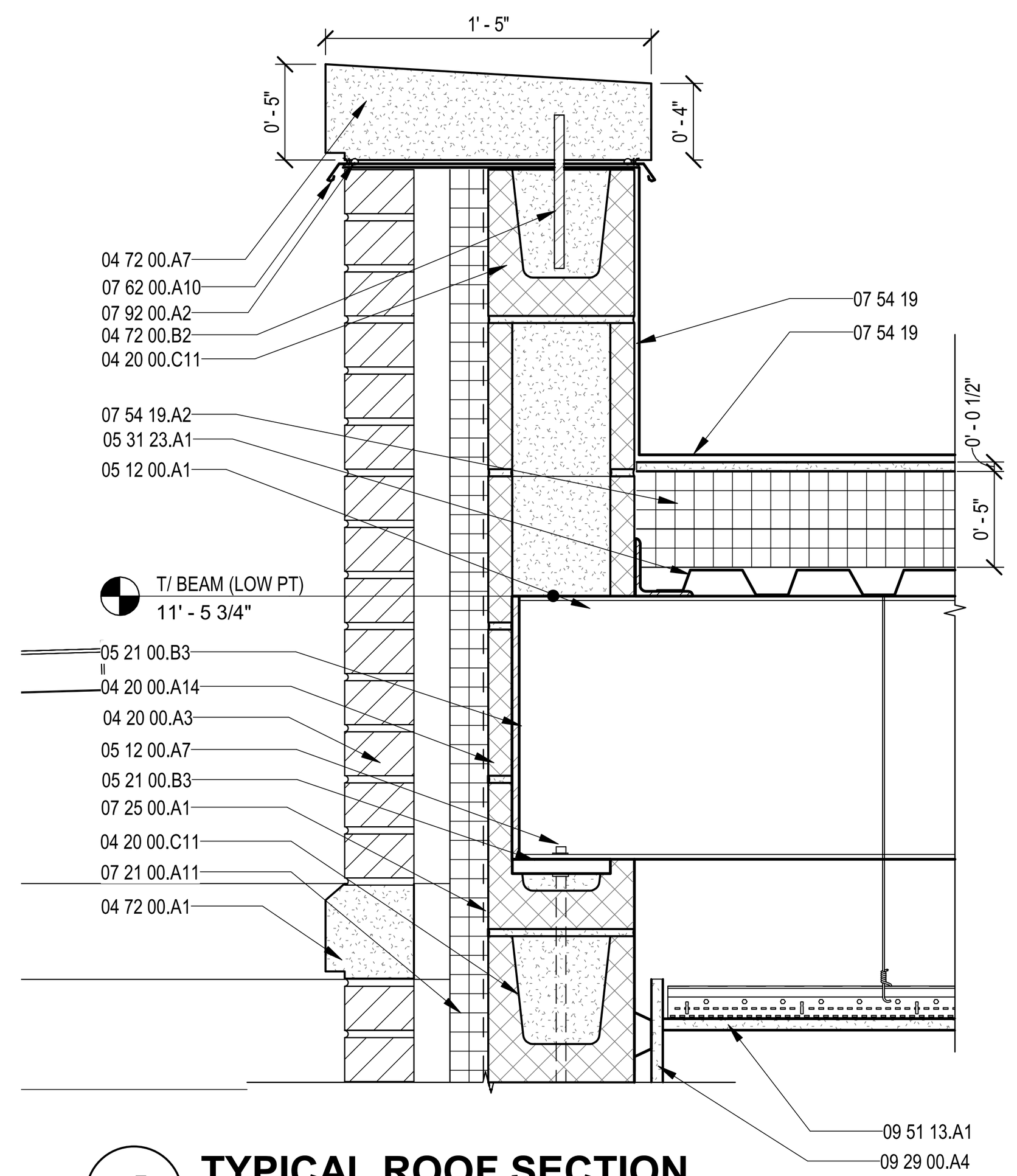
A5-01



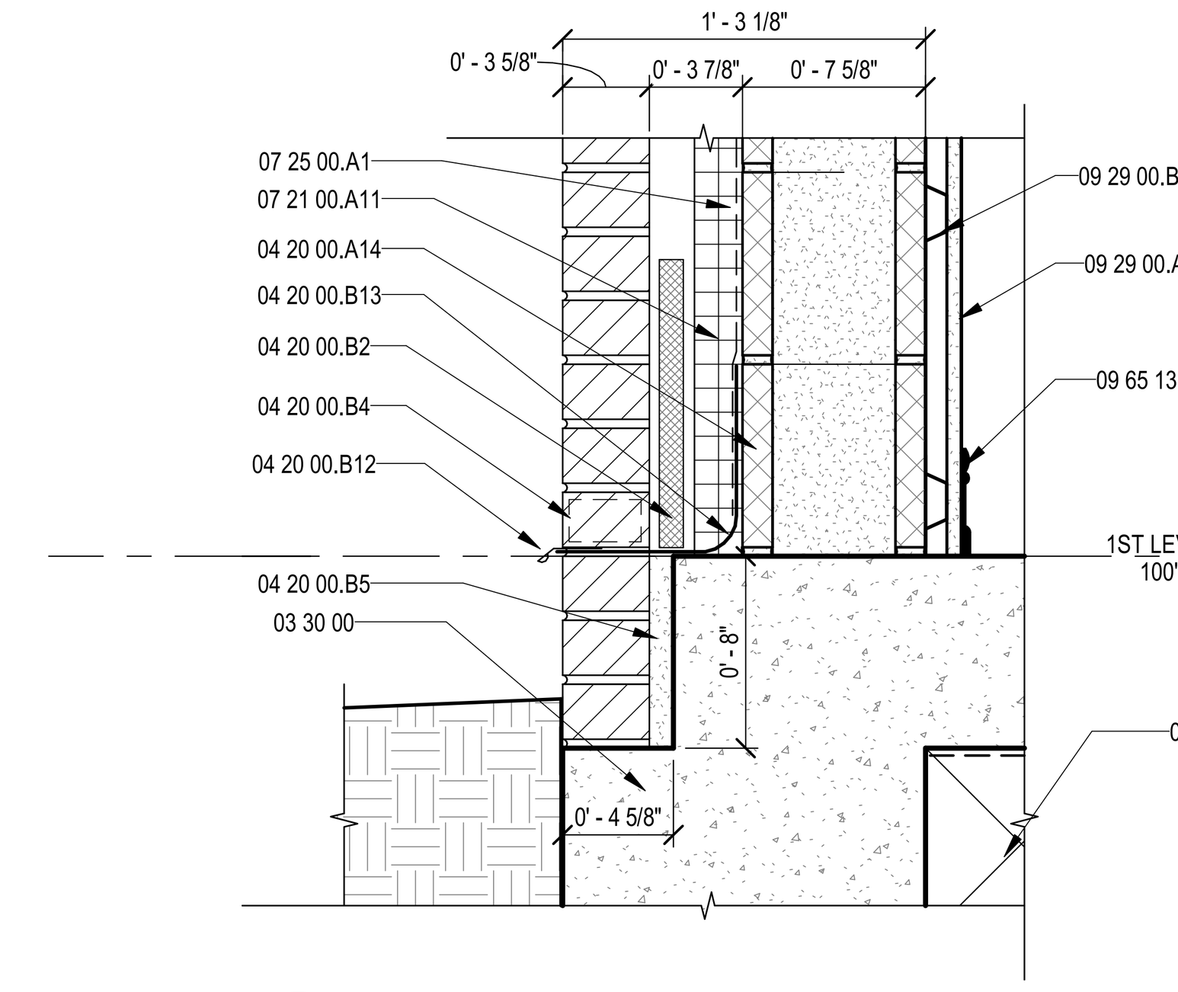
14 DOOR HEAD
1 1/2" = 1'-0"



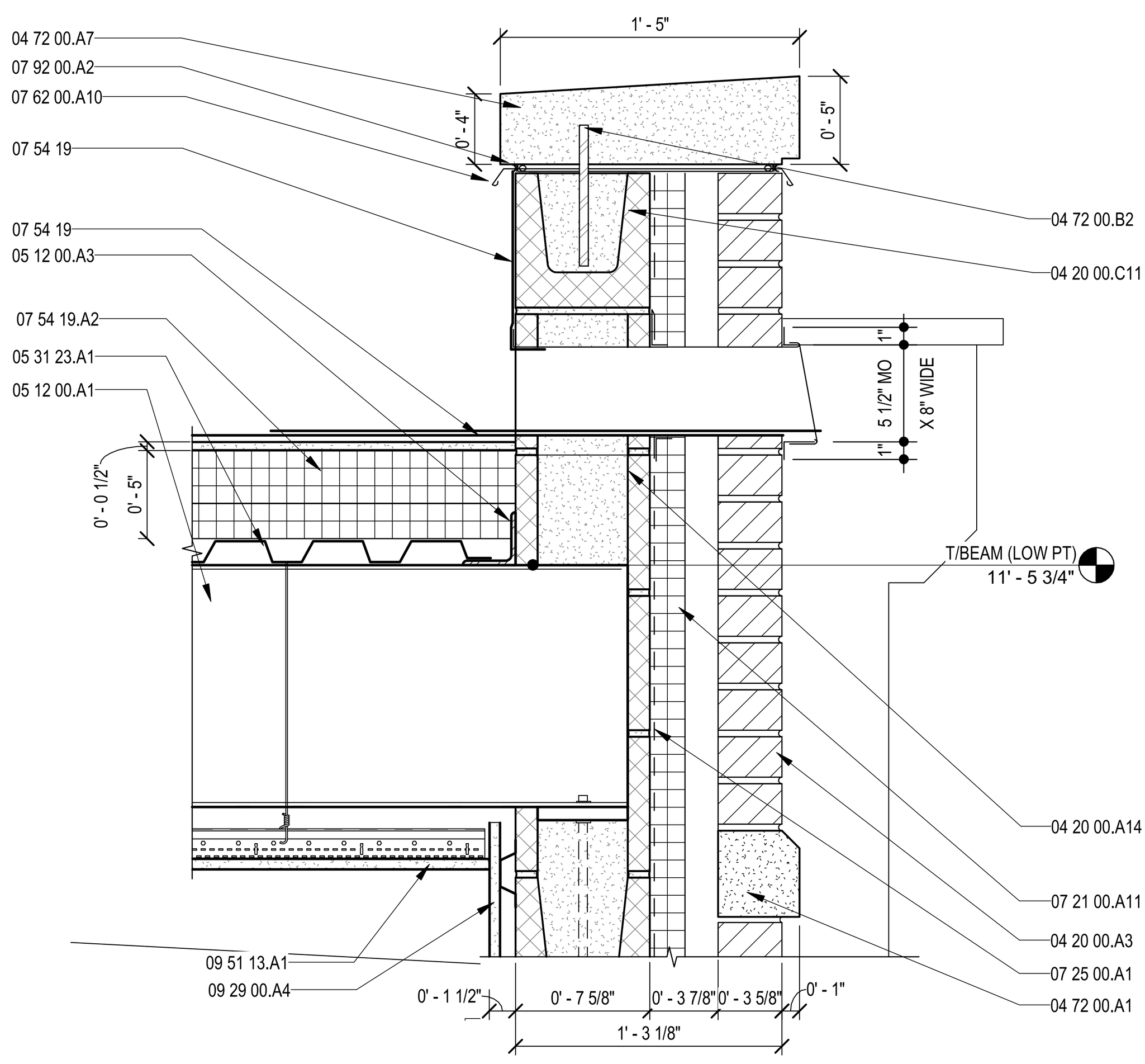
12 WINDOW SECTION
1 1/2" = 1'-0"



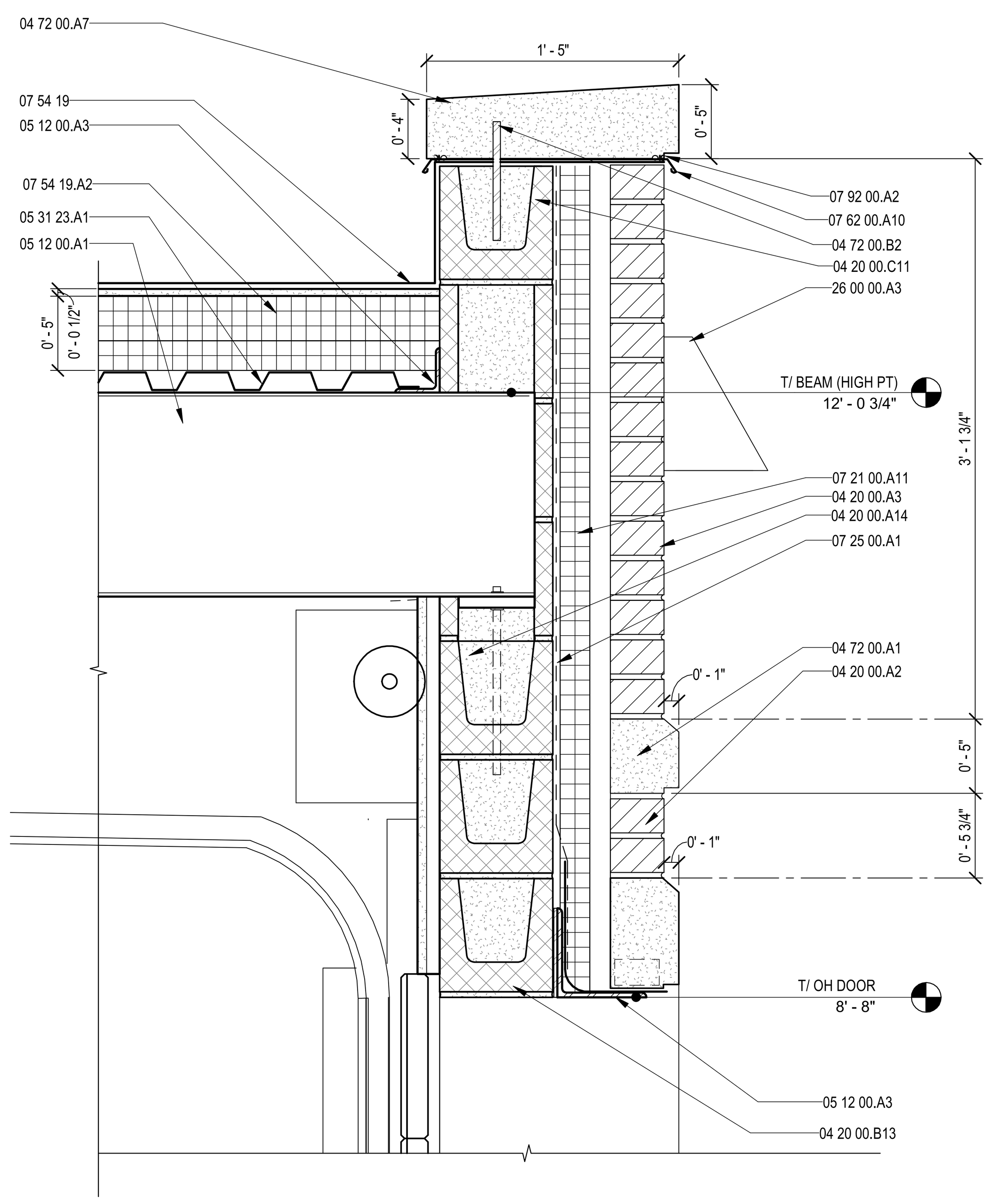
4 TYPICAL ROOF SECTION
1 1/2" = 1'-0"



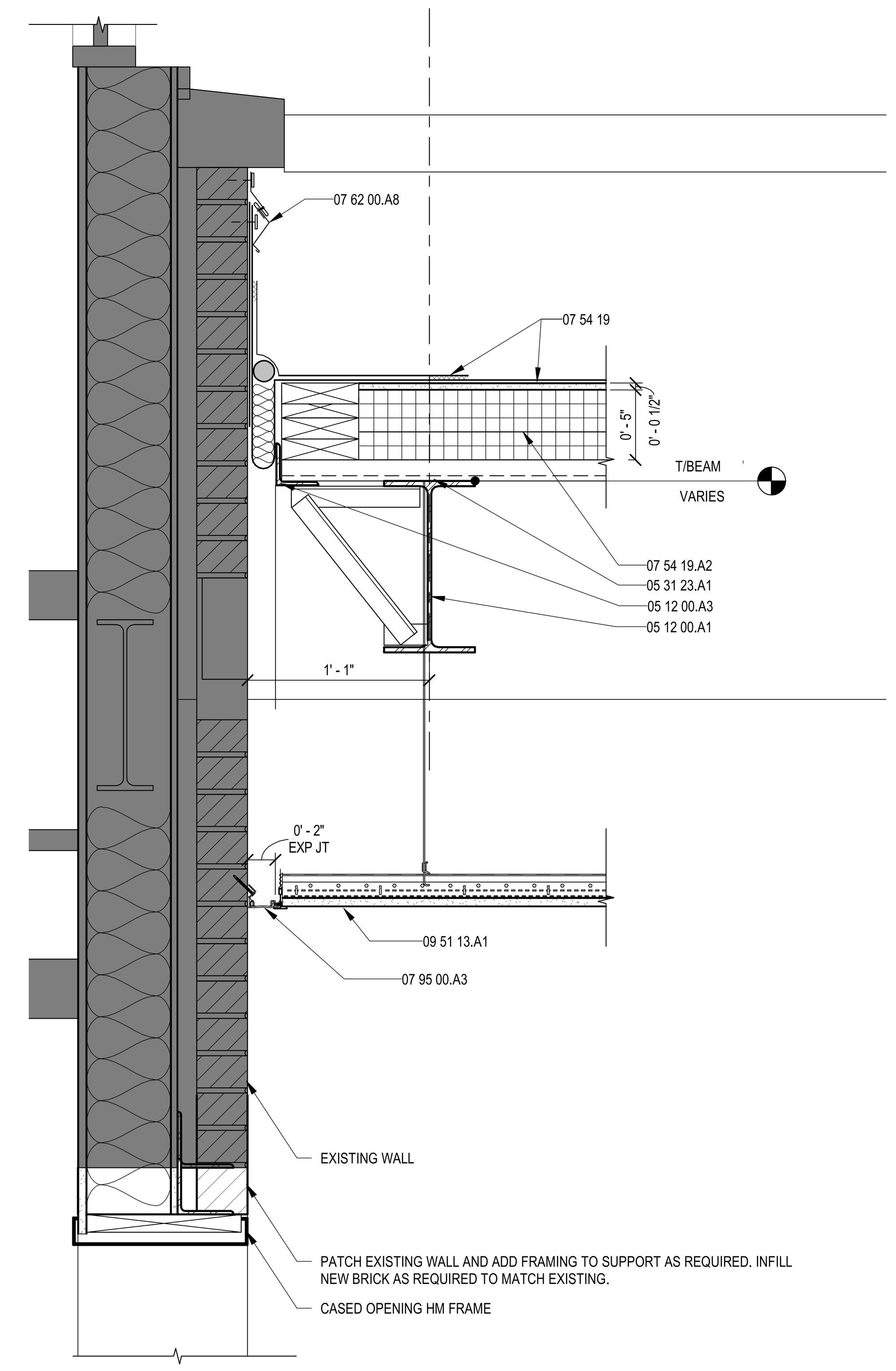
3 TYPICAL BASE SECTION
1 1/2" = 1'-0"



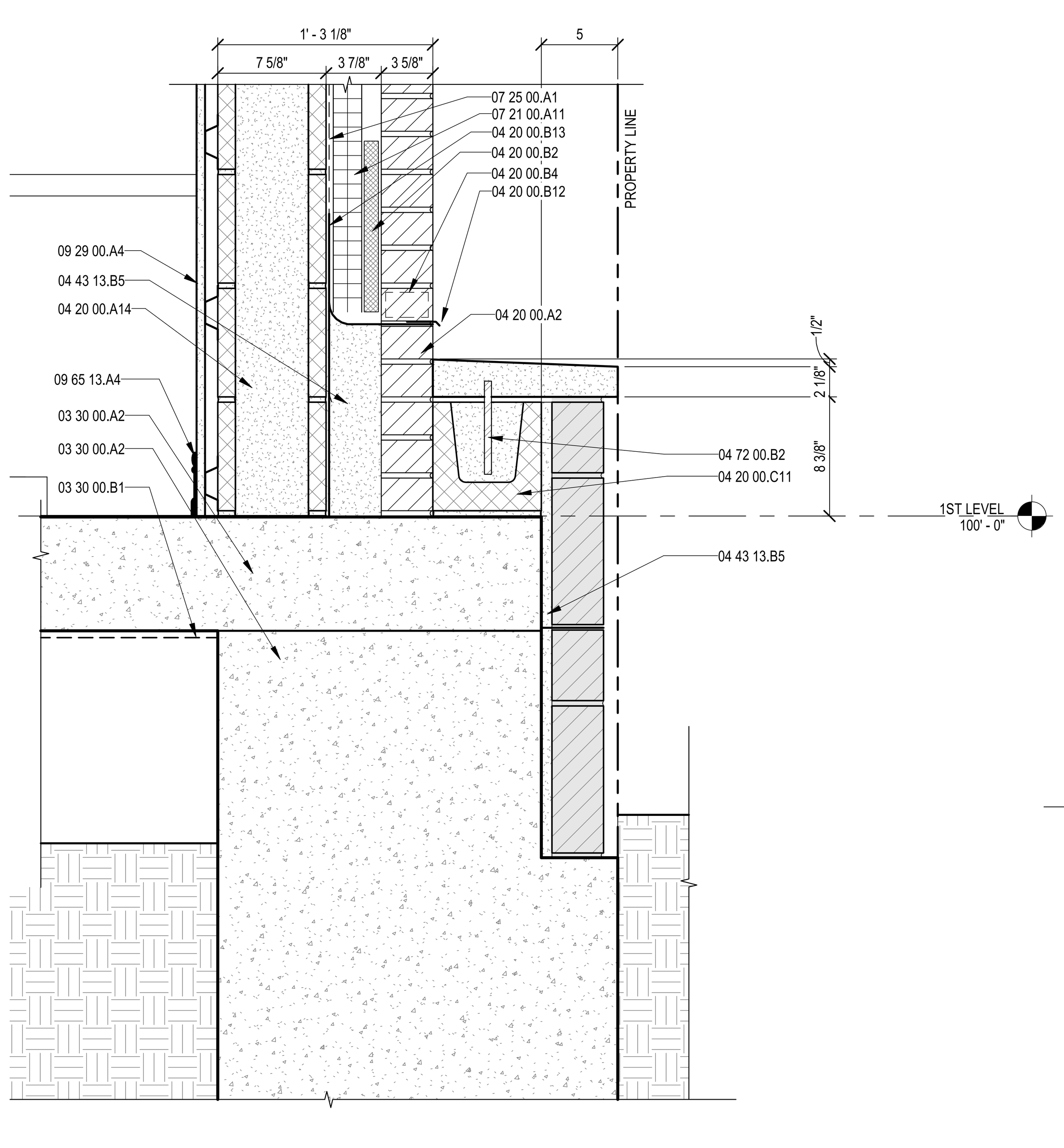
8 SCUPPER DETAIL
1 1/2" = 1'-0"



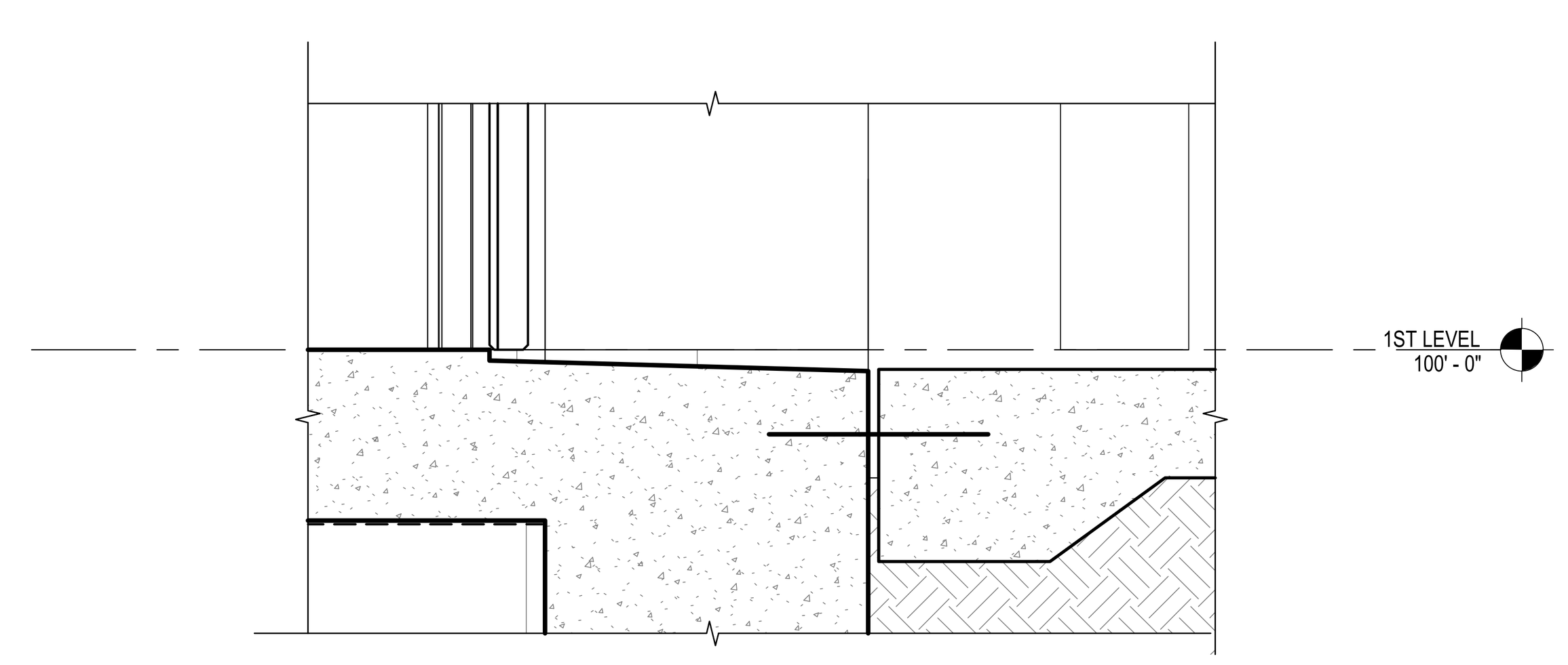
6 ROOF & OH DOOR HEAD
1 1/2" = 1'-0"



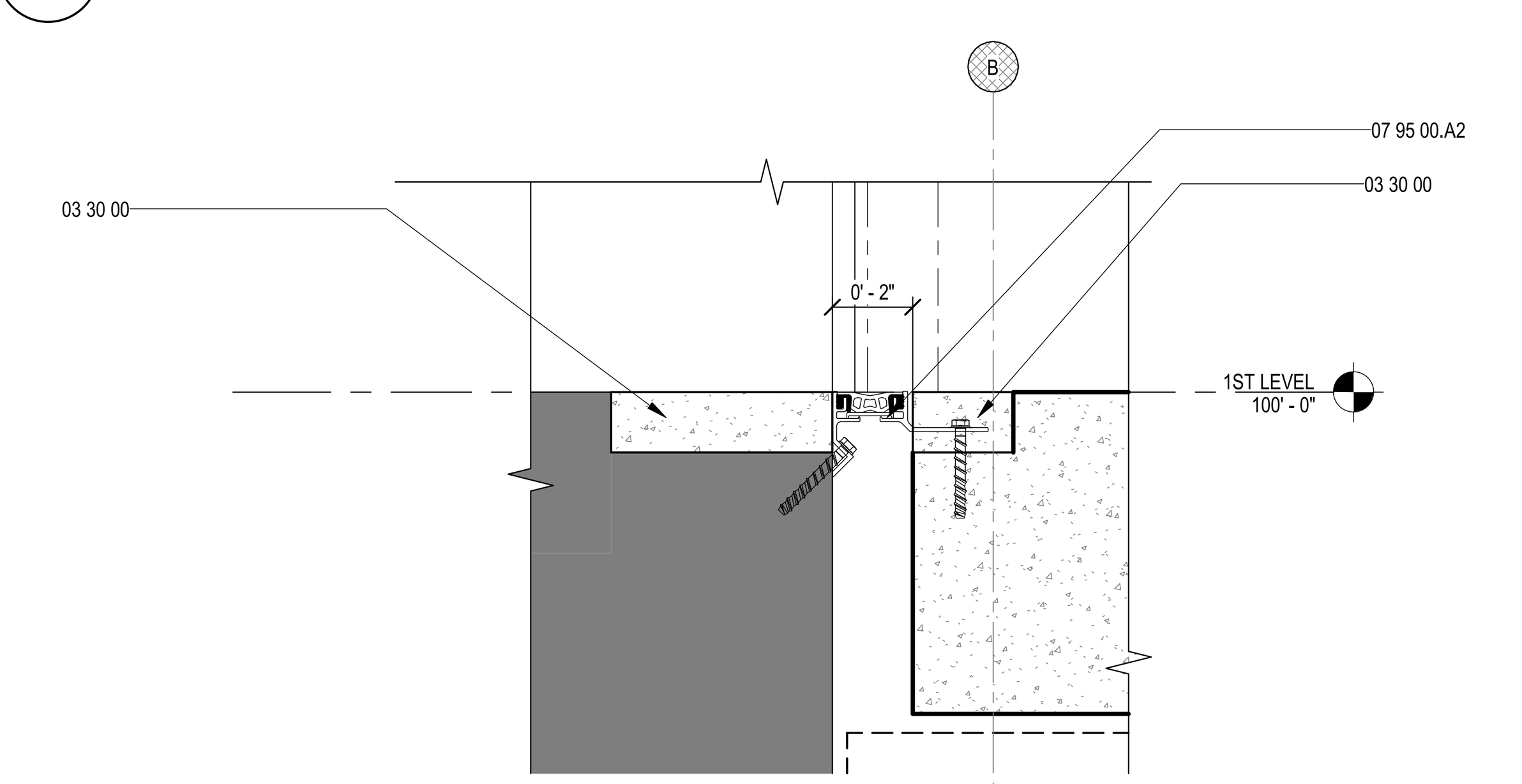
2 ROOF-EXT-NEW
1 1/2" = 1'-0"



7 FLOOR AT EX FENCE
1 1/2" = 1'-0"



5 FLOOR OH
1 1/2" = 1'-0"



1 FLOOR-EXT-NEW
3" = 1'-0"

KEYED NOTES

03 11 00.A1	Carton forms.
03 30 00	Cast-in-Place Concrete
03 30 00.A2	Concrete foundation; see Structural.
03 30 00.B1	Membrane vapor barrier.
04 20 00.A1	Face brick.
04 20 00.A2	Face brick, field.
04 20 00.A3	Face brick, accent.
04 20 00.A14	8" concrete masonry unit.
04 20 00.B2	Cavity drainage mesh.
04 20 00.B4	Weep holes; shown dashed.
04 20 00.B5	Grout solid.
04 20 00.B12	Stainless steel metal drip edge flashing.
04 20 00.B13	Flexible through-wall flashing.
04 20 00.C11	Concrete masonry unit bond beam; fill with concrete; see Structural for reinforcing and other requirements.
04 43 13.B5	Grout solid.
04 72 00.A1	Cast stone.
04 72 00.A4	Cast stone sill.
04 72 00.A5	Cast stone lintel.
04 72 00.A7	Cast stone coping.
04 72 00.B2	Stainless steel cast stone anchor(s), furnished and installed by cast stone fabricator; fasten to wall system/structure as required.
05 12 00.A1	Steel framing; see Structural.
05 12 00.A3	Structural steel angle; see Structural.
05 12 00.A7	Anchor bolt, refer to Structural
05 21 00.B3	Bearing plate; see Structural.
05 31 23.A1	Metal roof deck; see Structural.
05 50 00.A13	Loose steel lintel, galvanized. Extend 8" past each side of opening; see Structural steel lintel schedule.
06 10 53.A4	Nailer as required.
06 40 20.A11	Solid surface window sill.
07 21 00.A11	Rigid thermal insulation.
07 25 00.A1	Liquid membrane air infiltration barrier system.
07 54 19	PVC Roofing System
07 54 19.A2	Insulation System.
07 62 00.A8	Counterflashing.
07 62 00.A10	Parapet Cap Flashing.
07 92 00.A1	Sealant.
07 92 00.A2	Sealant w/ backer rod.
07 92 00.A6	Continuous sealant w/ backer rod.
07 95 00.A2	Floor expansion joint cover.
07 95 00.A3	Wall/ceiling expansion joint cover.
08 11 13.A10	Steel door and frame.
08 51 13.A1	Aluminum window.
09 29 00.A4	5/8" Moisture resistant gypsum board.
09 29 00.A23	3-5/8" metal stud framing.
09 29 00.B21	7/8" furring channel.
09 51 13.A1	Suspended Gypsum Ceiling System.
09 65 13.A4	Rubber wall base as scheduled.
26 00 00.A3	Lighting fixture; see Electrical.

GENERAL NOTES

1. Datum elevation 100'-0"" is equal to 661.01" MSL.
2. Refer to A4 sheets for Exterior Elevations depicting and locating exterior finishes.
3. Refer to scheduled door, window and opening details for required support structure, blocking and other attachment and support items. Also refer to structural for additional items at scheduled openings. Door, window and opening details are not referenced within these sections. These details are referenced within the Door/Opening schedule
4. Refer to structural for framing configurations, elevations and sizes.
5. Drape top of parapet framing with flexible flashing membrane prior to metal cap installation.
6. Openings will be flashed and sealed tight. Refer to Project Manual.

REVISIONS DENOTED BY #

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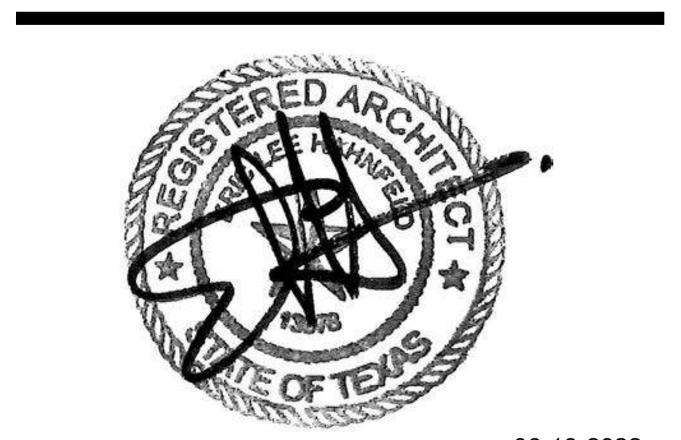


06-13-2022

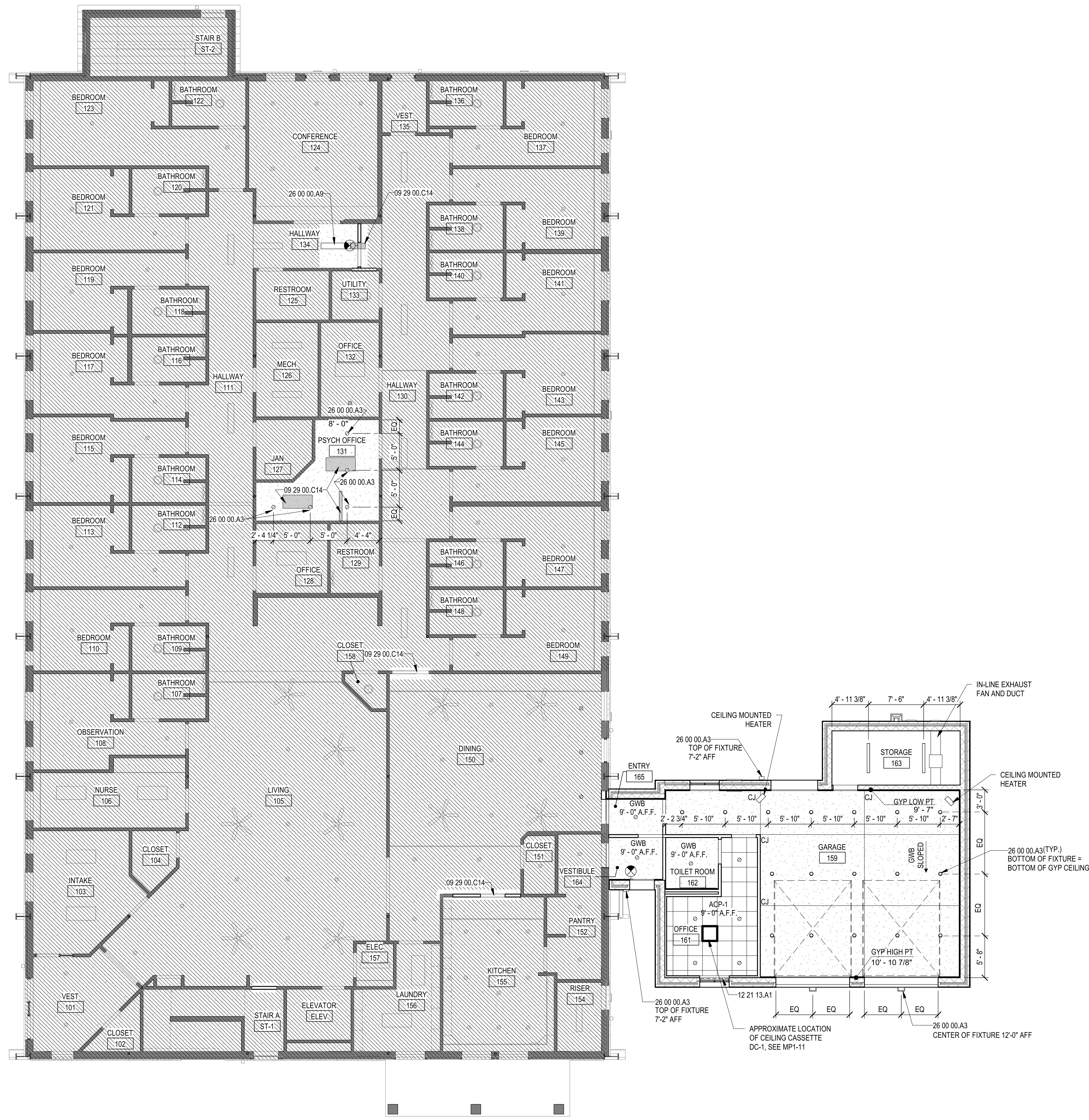
MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: Designer
ISSUED FOR: 100% CD	DRAFTER: Author
ISSUE DATE: 06.13.2022	CHECKED: Checker

WALL SECTIONS AND DETAILS

SHEET
A5-02



N
PLAN NORTH

1 **1ST FLOOR REFLECTED CEILING PLAN**
1/8" = 1'-0"

KEYED NOTES

09 29 00.C14	Patch and paint existing gypsum board ceiling as required.
12 21 13.A1	Horizontal louver blinds.
26 00 00.A3	Lighting fixture; see Electrical.
26 00 00.A9	Relocated existing light fixture; see Electrical.

GENERAL NOTES

1. All ceiling heights are relative to finish floor elevation in the corresponding space unless noted otherwise."
2. Refer to Electrical drawings for light fixture schedules, locations, and quantities.
3. Refer to Mechanical drawings for air device schedules, locations, and quantities.
4. Coordinate reflected ceiling plans with Mechanical, Electrical, Fire Protection, and A/V drawings to avoid conflicts. Verify exact location of ceiling mounted equipment before installation.
5. Continue and align gypsum board control joints occurring within the vertical plane to/with those occurring within the adjacent horizontal gypsum board plane.
6. Align and equally space light fixtures as shown.
7. Center sprinkler heads in center of ceiling panel, not interfering with diffusers, grilles, light fixtures, framing, architectural features, or any other items occurring within ceiling.
8. Center fire alarm devices and smoke detectors in center of ceiling panel, not interfering with diffusers, grilles, light fixtures, framing, architectural features, or any other items occurring within ceiling.
9. Provide appropriate support from the structure for ceiling hung items. Stabilize support to eliminate horizontal movement.

REVISIONS DENOTED BY

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1ST FLOOR REFLECTED CEILING PLAN

SHEET
A7-01

2ND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

PLAN NORTH

KEYED NOTES

09 29 00.C14	Patch and paint existing gypsum board ceiling as required.
26 00 00.A3	Lighting fixture; see Electrical.

GENERAL NOTES

1. All ceiling heights are relative to finish floor elevation in the corresponding space unless noted otherwise."
2. Refer to Electrical drawings for light fixture schedules, locations, and quantities.
3. Refer to Mechanical drawings for air device schedules, locations, and quantities.
4. Coordinate reflected ceiling plans with Mechanical, Electrical, Fire Protection, and A/V drawings to avoid conflicts. Verify exact location of ceiling mounted equipment before installation.
5. Continue and align gypsum board control joints occurring within the vertical plane to/with those occurring within the adjacent horizontal gypsum board plane.
6. Align and equally space light fixtures as shown.
7. Center sprinkler heads in center of ceiling panel, not interfering with diffusers, grilles, light fixtures, framing, architectural features, or any other items occurring within ceiling.
8. Center fire alarm devices and smoke detectors in center of ceiling panel, not interfering with diffusers, grilles, light fixtures, framing, architectural features, or any other items occurring within ceiling.
9. Provide appropriate support from the structure for ceiling hung items. Stabilize support to eliminate horizontal movement.

REVISIONS — DENOTED BY

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REGISTERED ARCHITECT — STATE OF TEXAS

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

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FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: GAR
ISSUED FOR: 100% CD	DRAFTER: VC
ISSUE DATE: 06.13.2022	CHECKED: GAR

2ND FLOOR REFLECTED CEILING PLAN

SHEET

A7-02

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N
PLAN NORTH

1 LEVEL 1 DEMOLITION PLAN - MECHANICAL AND PLUMBING
1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. REMOVE EXISTING LAVATORY/SINK. CAP HOT AND COLD WATER AND WASTE CONNECTIONS WITHIN WALL.
2. REMOVE EXISTING BATHTUB/SHOWER. CAP HOT AND COLD WATER CONNECTIONS WITHIN WALL. CAP WASTE BELOW FLOOR.
3. REMOVE EXISTING WATER CLOSET. CAP WATER WITHIN WALL. CAP WASTE BELOW FLOOR.
4. EXISTING SUPPLY AIR DIFFUSER/RETURN AIR GRILLE TO REMAIN.
5. REMOVE EXISTING WASHER CONNECTION BOX. CAP HOT AND COLD WATER IN WALL. CAP WASTE IN WALL.

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY A

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TBPELS Firm #44, #10011300, #10011302, #10194146
BHB Project # 2021.010.010

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STATE OF TEXAS
LESLIE R. BROWN
60171
REGISTERED ARCHITECT

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:LB
ISSUED FOR: 100% CD	DRAFTER: RM
ISSUE DATE: 06.13.2022	CHECKED: LB

LEVEL 1 DEMOLITION PLAN - MECHANICAL AND PLUMBING

SHEET
MPD1-11

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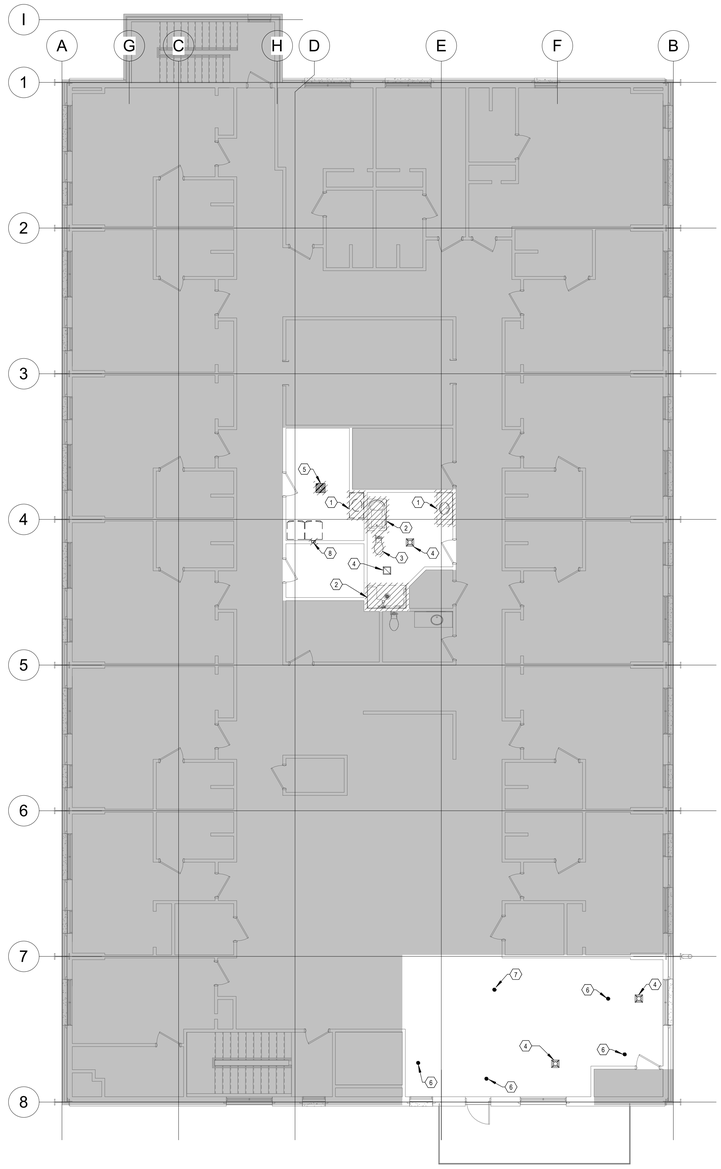

N
PLAN NORTH

1 LEVEL 2 DEMOLITION PLAN - MECHANICAL AND PLUMBING
1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. REMOVE EXISTING LAVATORY/SINK. CAP HOT AND COLD WATER AND WASTE CONNECTIONS WITHIN WALL.
2. REMOVE EXISTING BATHTUB/SHOWER. CAP HOT AND COLD WATER CONNECTIONS WITHIN WALL. CAP WASTE BELOW FLOOR.
3. REMOVE EXISTING WATER CLOSET. CAP WATER WITHIN WALL. CAP WASTE BELOW FLOOR.
4. EXISTING SUPPLY AIR DIFFUSER/RETURN AIR GRILLE TO REMAIN.
5. REMOVE EXISTING CEILING MOUNTED EXHAUST FAN. CAP DUCT ABOVE CEILING.
6. EXISTING WET PIPE SPRINKLER HEAD TO REMAIN.
7. EXISTING WET PIPE SPRINKLER HEAD TO BE RELOCATED.
8. REMOVE EXISTING WASHER CONNECTION BOX. CAP HOT AND COLD WATER IN WALL. CAP WASTE IN WALL.

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY A

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STATE OF TEXAS
LESLIE R. BROWN
60171
REGISTERED ARCHITECT

06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:LB
ISSUED FOR: 100% CD	DRAFTER: RM
ISSUE DATE: 06.13.2022	CHECKED: LB

LEVEL 2 DEMOLITION PLAN - MECHANICAL AND PLUMBING

SHEET
MPD1-12

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HVAC GENERAL NOTES

1. FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
2. ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
3. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
4. ALL INTERIOR DUCTS SHALL BE CONSTRUCTED WITH G-60 OR BETTER GALVANIZED STEEL (ASTM A 653/A 653M) LFQ, CHEM TREAT.
5. COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
6. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION AND ROUTING OF DUCTWORK WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL AIR DEVICES WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING AND OTHER LAYOUTS.
7. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH 2" THICK, 0.75 LB/CF (MINIMUM) FSK WRAP INSULATION (MINIMUM INSTALLED R-VALUE = R-6).
8. FLEXIBLE DUCTWORK RUNOUTS SHALL BE LIMITED TO 6'-0" EXTENDED LENGTH. FLEXIBLE DUCTWORK SHALL BE EQUAL TO ATCO #036. FLEXIBLE DUCTS, BOTH SUPPLY AND RETURN, SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 6.0, PER IECC. DUCT SHALL HAVE A CONTINUOUS FLEXIBLE FIBERGLASS SHEATH WITH UL APPROVED METALIZED POLYESTER BARRIER JACKET.
9. ALL DUCT DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS.
10. MOUNT ALL THERMOSTATS 4'-0" ABOVE FLOOR (TYPICAL).
11. FOR ALL VOLUME DAMPERS LOCATED ABOVE A HARD CEILING, PROVIDE AND INSTALL A WORM GEAR REMOTE VOLUME DAMPER REGULATOR. INSTALL KEY ACCESS IN THE CEILING DIRECTLY BELOW THE DAMPER AND PAINT CAP TO MATCH CEILING.
12. DO NOT ROUTE ANY DUCTWORK OVER ELECTRICAL PANELS OR I.T. SERVERS.
13. GC TO COORDINATE AIR BALANCE WITH OWNER'S AIR BALANCE CONSULTANT.

PLUMBING LEGEND

COLD WATER (CW)	FCO	FLOOR CLEANOUT
WASTE (SANITARY SEWER)	VTR	VENT THRU ROOF
EXISTING UTILITY	W	WASTE
RISER DOWN	V	VENT
RISER UP	CW	DOMESTIC COLD WATER
DIRECTION OF FLOW	HW	DOMESTIC HOT WATER
DIRECTION OF PITCH (DOWN)	SS	SANITARY SEWER
BALL VALVE	AFF	ABOVE FINISHED FLOOR
	(E)	EXISTING

HVAC LEGEND

- EXISTING TO REMAIN
- ITEM TO BE REMOVED
- NEW DUCTWORK
- SUPPLY AIR DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- THERMOSTAT (MOUNT 4'-0" ABOVE FLOOR)
- 12"x8" — INDICATES 12" x 8" INS. DIM. NET (1ST FIGURE = SIDE SHOWN, 2ND FIGURE = SIDE NOT SHOWN)
- A1 150 (TYPE / CFM) — DIFFUSER OR GRILLE DESIGNATION

FIRE PROTECTION LEGEND

- F — FIRE PROTECTION PIPE
- FIRE RISER
- FIRE SPRINKLER HEAD

PLUMBING GENERAL NOTES

1. FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE AND OPERABLE PLUMBING SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY, EVEN THOUGH NOT SPECIFICALLY CALLED OUT.
2. ALL WORK AND/OR MATERIAL SHALL BE INSTALLED BY A LICENSED CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO THE OWNER.
4. CROSS-CONNECTIONS OF ANY FIXTURE, DEVICE OR CONSTRUCTION WHICH WILL PERMIT BACKFLOW CONNECTIONS BETWEEN A WATER DISTRIBUTION SYSTEM AND ANY PART OF THE DRAINAGE SYSTEM SHALL NOT BE INSTALLED.
5. PLUMBING FIXTURES SHALL BE AS SCHEDULED. ALL HANDICAP FIXTURE INSTALLATIONS SHALL BE IN COMPLIANCE WITH ADA AND TAS (TEXAS ACCESSIBILITY STANDARDS). CONFIRM EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. ALL FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY TRIM. ALL EXPOSED METAL PARTS SHALL BE CHROME PLATED BRASS.
6. CONFIRM ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
7. COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
8. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAIN EXCEPT FOR THOSE AREAS NOT REQUIRED BY THE CITY OF FORT WORTH PLUMBING CODE.
9. PROVIDE FACTORY MANUFACTURED WATER HAMMER ARRESTORS WHERE REQUIRED AND/OR INDICATED ON THE DRAWINGS.
10. CONTRACTOR SHALL CONFIRM DEPTHS OF EXISTING SEWER LINES AND CONFIRM ADEQUACY FOR CONNECTION OF NEW SYSTEM. THE ENGINEER SHALL BE NOTIFIED IF THE REQUIRED SLOPES CAN NOT BE MAINTAINED, PRIOR TO INSTALLATION OF ANY NEW PIPING.
11. INSTALL PLUMBING VENTS THROUGH ROOF TO BE A MINIMUM OF 10'-0" FROM ALL RTU AND OTHER OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL.
12. ALL WATER PIPING PASSING THROUGH CONCRETE FLOOR SLABS SHALL BE COMPLETELY ISOLATED FROM THE CONCRETE BY ENCASEMENT IN 1/2" THICK FLEXIBLE FOAM PLASTIC INSULATION FROM WELL BELOW THE BOTTOM OF THE CONCRETE SLAB UP TO TWO INCHES ABOVE THE BEAMS BELOW GRADE. IT SHALL BE WRAPPED WITH 2 PLYS OF 15# FELT TO ISOLATE THE PIPE FROM THE CONCRETE. WHERE WATER PIPE EXTENDS THROUGH CONCRETE GRADE BEAMS BELOW GRADE, IT SHALL BE ENCASED IN 3/8" THICK FLEXIBLE FOAM PLASTIC INSULATION. PIPING BELOW SLAB SHALL BE TYPE "M" SOFT TEMPER COPPER WITHOUT JOINTS.
13. ALL EXPOSED PIPING PASSING THROUGH FLOORS, CEILINGS OR WALLS SHALL BE PROVIDED WITH APPROVED PLATES OF SUFFICIENT DIAMETER TO COVER THE SLEEVE OPENING AND FIT SNUGLY AROUND THE PIPE.
14. WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE.
15. THIS CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS SPACED NOT MORE THAN 10 FEET APART FOR PIPES 1-1/4" AND LARGER, AND 8' FOR PIPES SMALLER THAN 1-1/4", AND AT EACH JOINT FOR SOIL OR WASTE PIPE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS FOR COPPER PIPE SHALL HAVE NYLON INSULATED BUSHINGS OR PIPE SHALL BE WRAPPED WITH 15# FELT.
16. CLEANOUTS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS, OR WHERE REQUIRED, TO PROVIDE ACCESS TO ALL LINES AND AT HORIZONTAL RUN AT INTERVALS NOT EXCEEDING 80 FEET IN ALL SOIL, WASTE AND DRAIN LINES. CLEANOUTS SHALL BE SAME AS PIPE EXCEPT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED.
17. DO NOT INSTALL PVC PIPING IN ANY RETURN AIR PLENUMS.
18. ALL WASTE AND VENT PIPING SHALL BE STANDARD WEIGHT CAST IRON OR SCHEDULE 40 PVC. HORIZONTAL SOIL & WASTE PIPES SHALL BE GIVEN A GRADE OF 1/4 INCH PER FOOT WHERE POSSIBLE, BUT IN NO CASE LESS THAN 1/8 INCH PER FOOT. ALL PVC PIPING INSTALLATION SHALL CONFORM TO ASTM D 2321 LATEST EDITION "UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS" IN ALL RESPECTS. MINIMUM TRENCH WIDTH SHALL BE THE PIPE DIAMETER PLUS 16". ALL BEDDING MATERIAL SHALL MEET 1A OR 1B CRITERIA. ALL WASTE PIPING ROUTED BELOW SLAB SHALL BE FULLY ISOLATED FROM SURROUNDING SOIL USING THE VOIDFORM "PLUMBINGVOID" SYSTEM.
19. ALL NEW DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS. INSULATE ALL DOMESTIC WATER PIPING WITHIN THE BUILDING WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. INSULATE ALL DOMESTIC WATER PIPING OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE WITH 1" THICK FIBERGLASS PIPE INSULATION.
20. CONDENSATE DRAINS FOR AIR CONDITIONING UNITS SHALL BE PROVIDED. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS ACTIVITIES WITH ALL OTHER TRADES SO THAT ALL SYSTEMS ARE COMPLETE.
21. ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "M" COPPER DRAINAGE TUBE AND FITTINGS WITH LEAD FREE SOLDER JOINTS. PIPING LESS THAN OR EQUAL TO 1-1/2" INSIDE BUILDING SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS PIPE INSULATION WITH UNIVERSAL JACKET.

FIRE PROTECTION GENERAL NOTES

1. THE WORK COVERED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH MODIFYING EXISTING WET AUTOMATIC FIRE SPRINKLER SYSTEM AS SPECIFIED. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   A) COMPLETE DESIGN AND WORKING DRAWINGS MEETING APPLICABLE REQUIREMENTS.
   B) SPRINKLER HEADS. (WET PIPE)
   C) PIPING.
   D) VALVES.
2. THE FIRE PROTECTION SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE CITY FIRE DEPARTMENT. THE SYSTEM SHALL COMPLY WITH ALL APPLICABLE CITY, STATE, AND NATIONAL CODES AND ORDINANCES, AND THE CODES, ORDINANCES AND REGULATIONS OF ALL OTHER RULING AUTHORITIES HAVING JURISDICTION, INCLUDING, BUT NOT LIMITED TO:
   NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS
3. CONTRACTOR SHALL ARRANGE SPRINKLER HEADS REFERENCED TO ROOM CENTERLINES AND AXES TO ESTABLISH A PATTERN COMPLIMENTARY TO THE FINISHED CEILING. COORDINATE EXACT HEAD LOCATION AND PIPE ROUTING WITH THE ARCHITECT PRIOR TO INSTALLATION.
4. ALL LAYOUTS OF SPRINKLER PIPING SHALL BE REVIEWED BY AND COORDINATED WITH THE ARCHITECT. FINAL APPROVAL OF PIPING LAYOUT, HEAD PLACEMENT, ETC. SHALL BE BY ARCHITECT.
5. SPRINKLER HEADS SHALL BE SEMI-RECESSED TYPE, WHITE FINISH IN AREAS WITH FINISHED CEILINGS WHERE PIPING CAN BE CONCEALED. SPRINKLER HEADS IN UTILITY OR MECHANICAL AREAS SHALL BE STANDARD CHROME FINISH, SIDE WALL, PENDANT OR UPRIGHT HEADS AS REQUIRED.
6. ALL THREADED PIPING SHALL BE SCHEDULE 40 BLACK STEEL. THE MINIMUM THIN WALL PIPING ALLOWED SHALL BE SCHEDULE 30 FOR PIPE UP TO 2" AND SCHEDULE 10 FOR PIPE OVER 2". ALL THIN WALL PIPING SHALL BE JOINED USING ROLLED GROOVES WITH COUPLINGS. IF ALLOWED BY LOCAL CODES, OTHER TYPES OF PIPING MAY BE USED, BUT ONLY THOSE LISTED FOR FIRE SPRINKLER SERVICE.
7. UPON AWARD OF THE CONTRACT FOR THE FIRE PROTECTION SYSTEM, THE CONTRACTOR SHALL PREPARE PRELIMINARY DRAWINGS AND SECURE THE APPROVAL OF THE OWNER AND ARCHITECT. ON APPROVAL OF THE OWNER AND ARCHITECT, THE CONTRACTOR SHALL PREPARE DETAILED WORKING DRAWINGS FOR THE SYSTEM AND SECURE THE APPROVALS OF THE LOCAL FIRE MARSHAL, THE OWNER'S INSURANCE CARRIER, AND ANY OTHER APPROVALS REQUIRED. A COPY OF THE APPROVAL LETTERS SHALL BE DELIVERED TO THE ARCHITECT PRIOR TO COMMENCING WORK.
8. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE A LETTER OF GUARANTEE, WHICH SHALL GUARANTEE THE WORK AGAINST DEFECTS IN MATERIALS AND INSTALLATION AS OUTLINED UNDER THE GENERAL CONDITIONS. SECURE THE APPROVAL OR SEAL OF THE STATE RATING BUREAU AND PROVIDE THIS DOCUMENT TO THE ARCHITECT AND THE OWNER.
9. THE FIRE PROTECTION PIPING SYSTEM SHALL BE HYDRAULICALLY CALCULATED BASED UPON 90 PERCENT RESIDUAL PRESSURE AVAILABLE PER A CONTRACTOR-PROVIDED FLOW TEST AT SITE.
10. THE ARCHITECT SHALL HAVE THE FINAL AUTHORITY OVER ROUTING OF SPRINKLER RISER PIPING, SPRINKLER HEAD LOCATIONS, ETC. THE DESIGN OF THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE CAREFULLY COORDINATED WITH THE ARCHITECT PRIOR TO SUBMISSION OF SHOP DRAWINGS AND SYSTEM INSTALLATION.

ELECTRIC HEATER SCHEDULE

TAG	LOCATION	WATTS	CFM	VOLTS	PHASE	MANUFACTURER	MODEL NO.
EH-1	STORAGE 163	1250	-	120	1	BROAN	157
UH-1	GARAGE 159	2500	400	208	3	MARKEL	5103NHF2B
UH-2	GARAGE 159	2500	400	208	3	MARKEL	5103NHF2B

NOTES:
1. MOUNT EH-1 ON CEILING.
2. SUSPEND UH-1 AND 2 FROM CEILING SO THAT TOP OF HEATER IS 12" BELOW CEILING.
3. PROVIDE AND INSTALL REMOTE THERMOSTAT FOR EACH UNIT.

AIR DEVICE SCHEDULE

TAG	DESCRIPTION	OPPOSED BLADE DAMPER	FINISH	TITUS MODEL NO.
E1	22"x12" SIDEWALL EXHAUST AIR GRILLE SINGLE DEFLECTION, STEEL WITH 20"x10" NECK	NO	B11 WHITE	530
T1	12"x12" EGGCRATE TRANSFER AIR GRILLE 1/2" ALUMINUM GRID 10"ø NECK	NO	ALUMINUM	50F

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
2. ALL AIR DEVICES INSTALLED IN GYP BOARD, PLASTER, OR OTHER HARD CEILING SHALL HAVE A SEPARATE MOUNTING FRAME.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	C	H	W	V	DESCRIPTION
WC-1	WATER CLOSET, WALL HUNG FLUSH VALVE. ACCESSIBLE	1"	-	4"	2"	AMERICAN STANDARD #3351.101. VITREOUS CHINA (1.28 GPF). ELONGATED TOILET WITH TOP SPUD. SLOAN ROYAL #111-1.28 (1.28 GPF) FLUSH VALVE. CHURCH #9500CT OPEN FRONT SEAT WITH STA-TITE HINGES. TOP OF SEAT 17-1/2" AFF.
L-1	LAVATORY, WALL HUNG ACCESSIBLE	1/2"	1/2"	2"	2"	AMERICAN STANDARD #0355.012. VITREOUS CHINA WALL-HUNG LAVATORY WITH CONCEALED ARMS SUPPORT. AMERICAN STANDARD #6114.114.002 (0.35 GPM) CENTERSET LESS POP-UP, SINGLE LEVER ULTRA LOW FLOW FAUCET, GRID STRAINER & P-TRAP. ADA INSULATION PACKAGE.
FD-1	FLOOR DRAIN	-	-	2"	1-1/2"	WATTS #FD-100-M COATED CAST IRON WITH ADJUSTABLE SQUARE NIKALOY STRAINER. FLOOR DRAIN SHALL HAVE INSIDE CAULK CONNECTION AND (1/2" PRIMER TAP)(PROSET TRAP GUARD).
NFWH-1	NON-FREEZE WALL HYDRANT	3/4"	-	-	-	WATTS #HY-420 CHROME PLATED FACE (NO COVER). WALL HYDRANT SHALL HAVE INTEGRAL VACUUM BREAKER, ALL BRONZE CONSTRUCTION, KEY OPERATED.
HB-1	HOSE BIBB	3/4"	-	-	-	JR SMITH #5518 CAST BRONZE WITH SATIN FINISH NIKALOY FACE. WALL HYDRANT SHALL HAVE INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER AND STAINLESS STEEL BOX.
WB-1	WASHER CONNECTION BOX	1/2"	1/2"	2"	1-1/2"	OATEY MODEL #38995, 9" x 6-1/4" METAL WASHING MACHINE WALL BOX, 1/4" TURN BRASS HAMMER BALL VALVES, COPPER SWEAT, 2" RUBBER TAILPIECE MODEL #38990, METAL FACEPLATE MODEL #38975 AND ACCESSORIES MODEL #38976. UNIT SHALL BE INSTALLED COMPLETE WITH DRAIN AND TRAP. PROVIDE WITH WATER HAMMER ARRESTORS FOR HOT AND COLD WATER.

NOTES:
1. ALL FIXTURES SHALL MEET LOW WATER CONSUMPTION REQUIREMENTS.
2. PROVIDE TRUE-BRO "LAV-GUARD" INSULATION KIT FOR EXPOSED PIPING AT ALL ACCESSIBLE SINKS AND LAVS.
3. PROVIDE STOPS AT ALL FIXTURES
4. PROVIDE A COMPLETE TRAP PRIMER SYSTEM FOR ALL FLOOR DRAINS AS REQUIRED BY LOCAL CODE.
5. FIELD VERIFY TRAP PRIMER QUANTITY AND LOCATION TO COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS FOR DRAINAGE PIPE SLOPING.
6. ACCESSIBLE FIXTURES SHALL BE MOUNTED AND INSTALLED PER ADA & TAS.
7. PROVIDE FLOOR MOUNTED CARRIERS FOR ALL WALL MOUNTED FIXTURES.

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	KW INPUT	VOLTS	PHASE	TEMP. RISE AT 0.5 GPM (°F)	MANUFACTURER	MODEL NO.
IWH-1	TOILET 162	3.12	208	1	43	CHRONOMITE	CMI-15L/208

NOTES:
1. PROVIDE AND INSTALL QUARTER TURN, SHUT-OFF BALL VALVES FOR HOT AND COLD WATER CONNECTIONS.
2. WATER HEATER WITH INTEGRAL THERMOSTATIC MIXING VALVE.

DUCTLESS SPLIT AIR CONDITIONING UNIT SCHEDULE

INDOOR UNIT												OUTDOOR UNIT								
TAG	LOCATION	SUPPLY CFM	OUTSIDE AIR CFM	E.A.T. Db (°F)	E.A.T. Wb (°F)	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	ELECTRICAL VOLTS	ELECTRICAL PHASE	MANUFACTURER	MODEL NO.	TAG	CAPACITY (BTUH)	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTS	ELECTRICAL PHASE	AMBIENT TEMP. (°F)	MIN. SEER	MANUFACTURER	MODEL NO.
DC-1	OFFICE 161	335	50	80	67	11,100	14,000	208	1	LG Electronics	LCN128HV4	HP-1	11,100	12.3	15	208	1	105	19.4	LG	LUU127HV

NOTES:
1. UNIT HAS SINGLE POINT POWER CONNECTION. INDOOR UNIT IS POWERED VIA THE OUTDOOR UNIT. INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL LOCAL DISCONNECT FOR INDOOR UNIT AS REQUIRED BY CODE.
2. UNIT SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY OPERATING CONTROLS AND CONDENSATE PUMP.
3. UNIT SHALL BE FURNISHED WITH WALL MOUNTED, WIRED PROGRAMMABLE THERMOSTAT MODEL No. PREMTB10U.
4. THE NET COOLING CAPACITIES SHALL BE THE UNIT CAPACITIES IMMEDIATELY DOWNSTREAM OF THE UNIT DISCHARGE. THIS CAPACITY SHALL INCLUDE ANY INTERNAL HEAT GAIN IN THE UNIT, I.E. FAN HEAT, ETC.
5. PROVIDE CEILING CASSETTE WITH MANUFACTURER'S TRUE 2x2 GRILLE MODEL No. PT-QCHW0

FAN SCHEDULE

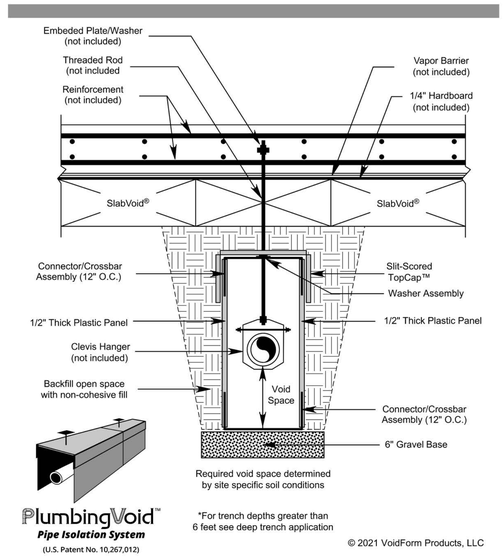
TAG	SERVICE	LOCATION	CFM	T.S.P.	MAX. SONES	FAN TYPE	DRIVE	MOTOR RPM	MOTOR POWER	MOTOR VOLTS	MOTOR PHASE	CONTROL	MANUFACTURER	MODEL NO.
EF-1	EXHAUST	TOILET 162	70	0.20	1	CEILING	DIRECT	1550	28.2 WATTS	120	1	LIGHTSWITCH	COOK	GC-128
EF-2	EXHAUST	STORAGE 163	1,250	0.70	9.5	INLINE	DIRECT	1140	1/3 HP	120	1	SWITCH	GREENHECK	SQ-140-B
EF-3	EXHAUST	STORAGE 163	100	0.20	1	CEILING	DIRECT	1550	35 WATTS	120	1	WALL SWITCH	COOK	GC-146

NOTES:
1. STATIC PRESSURE INCLUDES GRILLES, DUCTWORK AND DAMPERS.
2. FANS SHALL HAVE BACKDRAFT DAMPERS. ROOF FANS SHALL HAVE ALUMINUM BIRD SCREENS.
3. IN-LINE EXHAUST FANS SHALL BE SUSPEND FROM STRUCTURE WITH (4) - 1/2" ALL THREAD RODS AND MASON VIBRATION ISOLATOR SPRING HANGER WITH LDS RUBBER SPRING CUP.

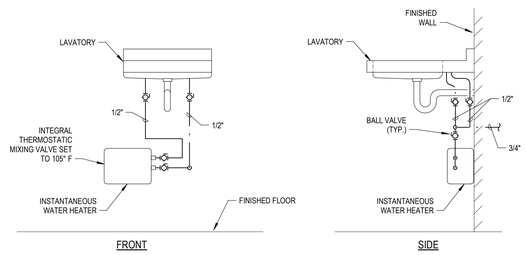
LOUVER SCHEDULE

TAG	TYPE	WIDTH (IN.)	HEIGHT (IN.)	MINIMUM FREE AREA (S.F.)	CFM	INTEGRAL DAMPER TYPE	EXT. S.P. (IN. OF WTR.)	MANUFACTURER	MODEL NO.	NOTES
LVR-1	INTAKE	24"	24"	1.81	1,250	NO	0.07	GREENHECK	ESD-435	1,2,3,4
LVR-2	EXHAUST	16"	16"	0.62	1,250	NO	0.18	GREENHECK	ESD-435	1,2

NOTES:
1. CAREFULLY COORDINATE EXACT LOCATION OF LOUVERS WITH ARCHITECTURAL AND STRUCTURAL.
2. LOUVER SHALL BE KYNAR FINISH, COLOR AS SELECTED FROM MANUFACTURER'S STANDARDS BY ARCHITECT.
3. PROVIDE LOUVER WITH MOTORIZED DAMPER INTERLOCKED WITH ASSOCIATED FAN.
4. PROVIDE MOTORIZED DAMPER WITH END SWITCH MOUNTED TO BLADE TO PROVE DAMPER POSITION.



1 **PLUMBINGVOID SYSTEM DETAIL**
NOT TO SCALE



2 **INSTANTANEOUS ELECTRIC WATER HEATER DETAIL**
NOT TO SCALE

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65171
LICENSED PROFESSIONAL ENGINEER
06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

REVISIONS DENOTED BY #

PROJECT #: 21063-00F	MANAGER: LB
ISSUED FOR: 100% CD	DRAFTER: RM
ISSUE DATE: 06.13.2022	CHECKED: LB

MECHANICAL AND PLUMBING SCHEDULES AND NOTES

SHEET
MP1-01

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N
PLAN NORTH

1 LEVEL 1 FLOOR PLAN - MECHANICAL AND PLUMBING

1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. NEW CEILING TRANSFER GRILLE.
2. INSTALL NEW WASHER CONNECTION BOX. EXTEND 1/2" CW AND 1/2" HW UP IN WALL TO ABOVE CEILING AND CONNECT INTO EXISTING CW AND HW. ROUTE 1-1/2" V UP TO ABOVE CEILING AND CONNECT INTO EXISTING VENT. ROUTE 2" W DOWN IN WALL TO BELOW FLOOR AND CONNECT INTO EXISTING WASTE.
3. EXTEND WET PIPE SPRINKLER COVERAGE FOR NEW GARAGE, ORDINARY HAZARD (GROUP 1) AND OFFICE, LIGHT HAZARD.
4. EXISTING AIR DEVICE TO REMAIN.
5. EXTEND 1-1/4" CW AND CONNECT INTO EXISTING CW MAIN. FIELD VERIFY EXACT LOCATION OF EXISTING.
6. ROUTE 3/4" CW DOWN WITHIN MASONRY WALL TO HOSE BIBB. COORDINATE PIPING INSTALLATION WITH MASONRY CONTRACTOR.
7. ROUTE 1-1/4" CW DOWN IN WALL. BRANCH 1/2" CW TO LAVATORY, 1/2" CW TO INSTANTANEOUS WATER HEATER AND 1/2" CW TO TRAP PRIMER SYSTEM SERVING FLOOR DRAIN. BRANCH 1" CW TO WATER CLOSET. PROVIDE WHA PDI TYPE 'A' IN LINE TO WATER CLOSET.
8. ROUTE 4"ø OUTSIDE AIR DUCT THROUGH EXTERIOR WALL AND TERMINATE WITH WALL CAP EQUAL TO BROAN MODEL #641FA WITH BIRDSCREEN. COORDINATE WALL CAP FINISH WITH ARCHITECT.
9. EXTEND 6"ø EXHAUST DUCT FROM EXHAUST FAN. ROUTE UP THROUGH ROOF AND TERMINATE WITH RAIN CAP.
10. INSTALL LOUVER ON WALL. COORDINATE EXACT LOCATION WITH STRUCTURAL AND ARCHITECTURAL.
11. INSTALL INLINE EXHAUST FAN SUSPENDED IN STORAGE ROOM. ROUTE DUCTWORK, SIZED PER PLAN, FROM EXHAUST AIR GRILLE IN GARAGE WALL TO FAN INLET. ROUTE DUCTWORK, SIZED PER PLAN FROM FAN TO EXHAUST LOUVER IN EXTERIOR WALL. EXHAUST FAN TO ENERGIZE WHEN INTAKE LOUVER IS PROVEN OPEN.
12. WHEN SWITCH IS TURNED ON, LOUVER SHALL OPEN. END SWITCH ON BLADE WILL PROVE THAT LOUVER IS OPEN AND ALLOW EXHAUST FAN TO ENERGIZE.
13. REFER TO DETAIL 2/MP1-01 FOR PIPE ROUTING AT INSTANTANEOUS WATER HEATER.
14. ALL WASTE PIPING BELOW SLAB TO BE INSTALLED USING THE PLUMBINGVOID SYSTEM TO ISOLATE PIPING FROM SURROUNDING SOIL. REFER TO DETAIL 1/MP1-01.
15. ROUTE 4" W FROM WATER CLOSET BELOW SLAB. ROUTE 2" V UP IN CHASE.
16. ROUTE 2" W FROM FLOOR DRAIN BELOW SLAB. ROUTE 1-1/2" V UP IN CHASE.
17. ROUTE 2" W FROM LAVATORY DOWN IN CHASE TO BELOW SLAB. ROUTE 2" V UP IN CHASE.
18. COMBINE VENTS FROM WATER CLOSET, FLOOR DRAIN AND LAVATORY INTO 2" V WITHIN CHASE AND EXTEND 2" V UP THROUGH ROOF.
19. ROUTE 1" PUMPED CONDENSATE DRAIN FROM CASSETTE UNIT UP TO AS HIGH AS POSSIBLE THEN CONTINUE, SLOPED, AS SHOWN.
20. ROUTE 1" CONDENSATE DRAIN DOWN IN CHASE AND CONNECT INTO LAVATORY TAILPIECE.
21. ROUTE 3/4" CW DOWN IN WALL TO NON-FREEZE WALL HYDRANT.

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY A

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06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER: LB
ISSUED FOR: 100% CD	DRAFTER: RM
ISSUE DATE: 06.13.2022	CHECKED: LB

LEVEL 1 FLOOR PLAN - MECHANICAL AND PLUMBING

SHEET
MP1-11

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N
PLAN NORTH

1 LEVEL 2 FLOOR PLAN - MECHANICAL AND PLUMBING
1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. NEW CEILING TRANSFER GRILLE.
2. RELOCATE EXISTING WET PIPE SPRINKLER HEAD.
3. ADD NEW WET PIPE SPRINKLER HEAD. MATCH EXISTING HEAD TYPE.
4. EXISTING WET PIPE SPRINKLER HEAD TO REMAIN
5. EXISTING AIR DEVICE TO REMAIN.
6. 6"ø EXHAUST DUCT UP FROM BELOW.

GENERAL NOTES

KEY PLAN

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LEVEL 2 FLOOR PLAN - MECHANICAL AND PLUMBING

SHEET
MP1-12

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N

PLAN NORTH

1 LEVEL 1 DEMOLITION PLAN - ELECTRICAL

1/8" = 1'-0"

KEYED NOTES

GENERAL NOTES

KEY PLAN

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LEVEL 1 DEMOLITION PLAN - ELECTRICAL

SHEET

ED1-11

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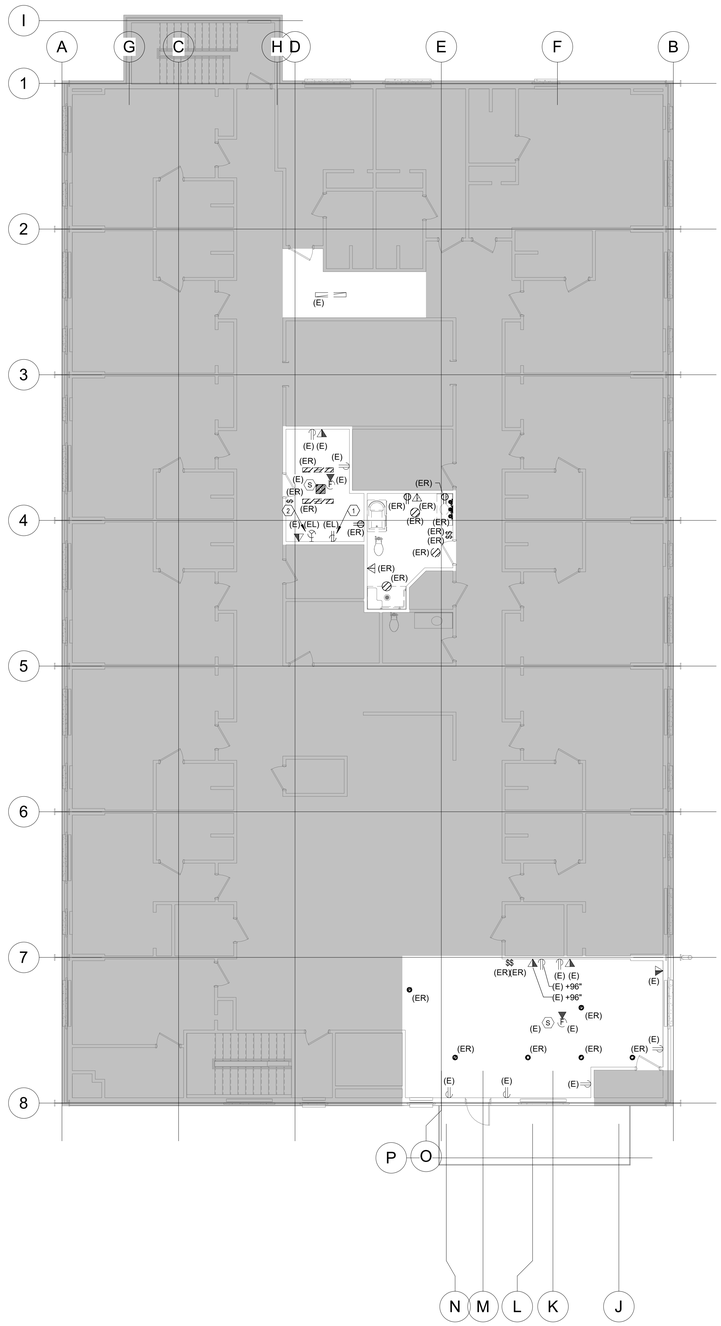

N
PLAN NORTH

1 LEVEL 2 DEMOLITION PLAN - ELECTRICAL
1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. INTERCEPT AND EXTEND EXISTING CIRCUIT SERVING EXISTING WASHER TO NEW LOCATION SHOWN ON SHEET E1-11.
2. INTERCEPT AND EXTEND EXISTING CIRCUIT SERVING EXISTING DRYER TO NEW LOCATION SHOWN ON E1-11

GENERAL NOTES

KEY PLAN

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LEVEL 2 DEMOLITION PLAN - ELECTRICAL

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Branch Panel: (E)Panel Roof 1

Location: ROOF
Supply From: (E) MDP
Mounting: Surface
Type 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MLO
Bus Rating: 225A
SPD Device: NO
No. of Sections: 1

Notes:

CKT	CIRUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRUIT DESCRIPTION	CKT
1	EXISTING LOAD (CU-2)	30 A	3	0 VA			0 VA			3	30 A	EXISTING LOAD (A/C-3)	2
3	--	--	--		0 VA			0 VA		--	--	--	4
5	--	--	--			0 VA			0 VA	--	--	--	6
7	EXISTING LOAD (CU-4)	30 A	2	0 VA			0 VA			3	30 A	EXISTING LOAD (CU-1)	8
9	--	--	--		0 VA			0 VA		--	--	--	10
11	TIED TO ABOVE	30 A	1			0 VA			0 VA	--	--	--	12
13	**PANEL G**	**100 A**	3	**5612 VA**			--			1	--	Space	14
15	--	--	--		**5916 VA**			--		1	--	Space	16
17	--	--	--			**5232 VA**			--	1	--	Space	18
19	Space	--	1	--			--			1	--	Space	20
21	Space	--	1		--			--		1	--	Space	22
23	Space	--	1			--			--	1	--	Space	24
25	Space	--	1	--			--			1	--	Space	26
27	Space	--	1		--			--		1	--	Space	28
29	Space	--	1			--			--	1	--	Space	30
31	Space	--	1	--			--			1	--	Space	32
33	Space	--	1		--			--		1	--	Space	34
35	Space	--	1			--			--	1	--	Space	36
37	Space	--	1	--			--			1	--	Space	38
39	Space	--	1		--			--		1	--	Space	40
41	Space	--	1			--			--	1	--	Space	42
			Total Load:	5612 VA	5916 VA	5232 VA						**Total Connected Load:**	**16758 VA**
			Total Amps:	47 A	50 A	44 A						**Total Connected Amps:**	**47 A**

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)
HVAC	2558 VA	100.00%	2558 VA
Lighting	537 VA	125.00%	671 VA
Misc. Load	9897 VA	100.00%	9897 VA
Receptacle - Diversified	3800 VA	100.00%	3800 VA

Panel Totals	
Total Connected Load:	16758 VA
Total Demand Load:	16884 VA
Total Connected:	47 A
Total Demand Load:	47 A

Branch Panel: PANEL G

Location: GARAGE 159
Supply From: (E)Panel Roof 1
Mounting: Surface
Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MLO
Bus Rating: 100A
SPD Device: NO
No. of Sections: 1

Notes:

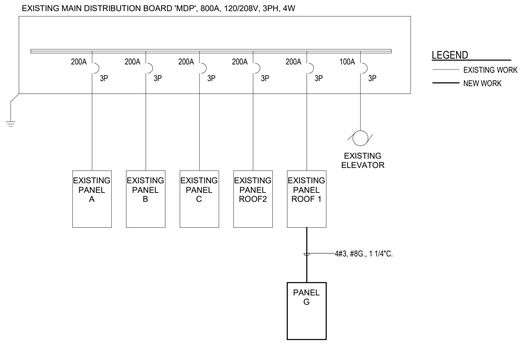
CKT	CIRUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRUIT DESCRIPTION	CKT
G-1	HP-1/DC-1	20 A	2	1279 VA			492 VA			1	20 A	EF-2 STORAGE 163	G-2
G-3	--	--	--		1279 VA			180 VA		1	20 A	Receptacle TOILET ROOM 162	G-4
G-5	EH-1	20 A	1			1250 VA			0 VA	1	20 A	Spare	G-6
G-7	Receptacle GARAGE 159	20 A	1	720 VA			490 VA			1	20 A	Lighting GARAGE 159	G-8
G-9	Lighting	20 A	1		50 VA			1560 VA		2	20 A	IWH-1 TOILET ROOM 162	G-10
G-11	Receptacle Space 254	20 A	1			720 VA			1560 VA	--	--	--	G-12
G-13	Mortorized Damper GARAGE 159	20 A	1	0 VA			833 VA			3	20 A	UH-1 GARAGE 159	G-14
G-15	Receptacle - Diversified	20 A	1		180 VA			833 VA		--	--	--	G-16
G-17	EF-3 STORAGE 163	20 A	1			35 VA			833 VA	--	--	--	G-18
G-19	Spare	20 A	1	0 VA			833 VA			3	20 A	UH-2 GARAGE 159	G-20
G-21	Spare	20 A	1		0 VA			833 VA		--	--	--	G-22
G-23	Spare	20 A	1			0 VA			833 VA	--	--	--	G-24
G-25	Spare	20 A	1	0 VA			1000 VA			1	20 A	Garage Door Opener	G-26
G-27	Spare	20 A	1		0 VA			1000 VA		1	20 A	Garage Door Opener	G-28
G-29	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	G-30
G-31													G-32
G-33													G-34
G-35													G-36
G-37													G-38
G-39													G-40
G-41													G-42
			Total Load:	5612 VA	5916 VA	5232 VA						**Total Connected Load:**	**16758 VA**
			Total Amps:	47 A	50 A	44 A						**Total Connected Amps:**	**47 A**

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)
HVAC	2558 VA	100.00%	2558 VA
Lighting	537 VA	125.00%	671 VA
Misc. Load	9897 VA	100.00%	9897 VA
Receptacle - Diversified	3800 VA	100.00%	3800 VA

Panel Totals	
Total Connected Load:	16758 VA
Total Demand Load:	16884 VA
Total Connected:	47 A
Total Demand Load:	47 A

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS
A1	4" RECESSED DOWNLIGHT, 4000K, 1730 LUMENS, VOLTAGE 120V, 0-10V 1% DIMMING STANDARD, RETROFIT, NO CEILING FITTING PLATE, TRIM COLOR SELECTED BY ARCHITECT ALPHABET #NU4 RDOT SW 20LM 40K 80 D60 120 10V RET [XX]	17W LED WITH UNIT
A1E	4" RECESSED DOWNLIGHT, 4000K, 1730 LUMENS, VOLTAGE 120V, 0-10V 1% DIMMING STANDARD, RETROFIT, NO CEILING FITTING PLATE, TRIM COLOR SELECTED BY ARCHITECT, EMERGENCY BATTERY BACKUP, 90 MINUTES AT 12 WATTS TO LED ALPHABET #NU4 RDOT SW 20LM 40K 80 D60 120 10V RET [XX] EM7	17W LED WITH UNIT
A2	4" RECESSED DOWNLIGHT, 4000K, 2130 LUMENS, VOLTAGE 120V, 0-10V 1% DIMMING STANDARD, RETROFIT, NO CEILING FITTING PLATE, TRIM COLOR SELECTED BY ARCHITECT ALPHABET #NU4 RDOT SW 25LM 40K 80 D60 120 10V RET [XX]	22W LED WITH UNIT
A2E	4" RECESSED DOWNLIGHT, 4000K, 2130 LUMENS, VOLTAGE 120V, 0-10V 1% DIMMING STANDARD, RETROFIT, NO CEILING FITTING PLATE, TRIM COLOR SELECTED BY ARCHITECT, EMERGENCY BATTERY BACKUP, 90 MINUTES AT 12 WATTS TO LED ALPHABET #NU4 RDOT SW 25LM 40K 80 D60 120 10V RET [XX] EM7	22W LED WITH UNIT
A3	4" RECESSED DOWNLIGHT, 4000K, 1730 LUMENS, VOLTAGE 120V, 0-10V 1% DIMMING STANDARD, NEW CONSTRCUTION WITH CEILING FITTING PLATE, TRIM COLOR SELECTED BY ARCHITECT ALPHABET #NU4 RDOT SW 20LM 40K 80 D60 120 10V NC [XX]	17W LED WITH UNIT
C	LINEAR INDUSTRIAL STRIP, 4' LONG, 3000 LUMENS, STANDARD EFFICIENCY, LESS LOUVER, FLAT DIFFUSE LENS, WIDE DISTRIBUTION, 120V, GENERIC 0-10V DIMS TO 10%, 4000K, 80CRI, 36" HANGER CHAIN LITHONIA LIGHTING #CLX L48 3000LM SEF FDL WD 120 GZ10 40K 80CRI HC36	27.58W LED WITH UNIT
CE	LINEAR INDUSTRIAL STRIP, 4' LONG, 3000 LUMENS, STANDARD EFFICIENCY, LESS LOUVER, FLAT DIFFUSE LENS, WIDE DISTRIBUTION, 120V, GENERIC 0-10V DIMS TO 10%, 4000K, 80CRI, EMERGENCY BATTERY PACK 10W, 36" HANGER CHAIN LITHONIA LIGHTING #CLX L48 3000LM SEF FDL WD 120 GZ10 40K 80CRI PS1050 HC36	27.58W LED WITH UNIT
W1	SMALL WALL PACK, PACKAGE P2, 4000K, 80CRI, VISUAL COMFORT FORWARD THROW, UNIVERSAL VOLTAGE, SURFACE MOUNT BRACKET, EMERGENCY BATTERY BACKUP, PHOTOCELL LITHONIA LIGHTING #WDGE1 LED P2 40K 80CRI VF MVOLT SRM E4WH PE	4W LED WITH UNIT
W2	WALL PACK, PACKAGE P2, 4000K, 80CRI, VISUAL COMFORT FORWARD THROW, UNIVERSAL VOLTAGE, SURFACE MOUNT BRACKET, EMERGENCY BATTERY BACKUP, PHOTOCELL LITHONIA LIGHTING #WDGE2 LED P2 40K 80CRI T4M MVOLT	19W LED WITH UNIT
X	EXIT SIGN, RED LETTERS, WHITE HOUSING, BATTERY BACKUP, 120/277V UNIVERSAL VOLTAGE, TEST SWITCH AND STATUS INDICATOR FOR LOW MAINTENANCE. LITHONIA LIGHTING #LQM S W 3 R 120/277 EL N M6	1W LED WITH UNIT



1 RISER DIAGRAM
NOT TO SCALE

GENERAL NOTES:

1. PROVIDE A PERMANENT NAMEPLATE ON THE FACE OF THE SERVICE ENTRANCE EQUIPMENT INDICATING THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED.
2. PREPARE A SHORT CIRCUIT CURRENT STUDY, PROTECTIVE DEVICE COORDINATION STUDY AND ARC FLASH HAZARD RISK CALCULATION BASED UPON ACTUAL CONDUCTOR LENGTHS AND DISTRIBUTION EQUIPMENT COMPONENTS INSTALLED FOR ALL NEW AND EXISTING DISTRIBUTION EQUIPMENT, AIR CONDITIONING AND REFRIGERATION EQUIPMENT, ELEVATOR CONTROL PANELS, ADJUSTABLE SPEED DRIVES, MOTOR CONTROL CENTERS, INDUSTRIAL CONTROL PANELS, AUTOMATIC TRANSFER SWITCHES, AND OTHER EMERGENCY, LEGALLY REQUIRED STANDBY, OPTIONAL STANDBY AND CRITICAL OPERATIONS POWER SYSTEMS PRESENT AND INSTALLED AS PART OF THIS PROJECT IN ACCORDANCE WITH THE NEC. APPLY WARNING LABELS TO THE FACE OF THE EQUIPMENT CABINET(S) INDICATING THE AVAILABLE FAULT CURRENT, DATE CALCULATED, AND HAZARD LEVEL POTENTIAL PRESENT AS REQUIRED BY NFPA 70E. SET ALL CIRCUIT BREAKERS EQUIPPED WITH ADJUSTABLE INSTANTANEOUS OR ADJUSTABLE ELECTRONIC TRIP UNITS IN ACCORDANCE WITH SETTING RECOMMENDATIONS MADE IN PROTECTIVE DEVICE COORDINATION STUDY.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE - REFER TO NOTE 1		SIMPLEX RECEPTACLE
	LIGHT FIXTURE - REFER TO NOTE 1		DUPLEX RECEPTACLE
	WALL MOUNTED LIGHT FIXTURE	T	TAMPERPROOF DUPLEX RECEPTACLE
	EXIT LIGHT FIXTURES - REFER TO NOTE 7		QUAD RECEPTACLE
	EMERGENCY LIGHTING UNIT WITH 2 LAMPS		GFI RECEPTACLE, WP FOR ALL OUTDOOR LOCATIONS
	SINGLE POLE SWITCH		ISOLATED GROUND RECEPTACLE - REFER TO NOTE 3
2	DOUBLE POLE SWITCH		FLUSH FLOOR RECEPTACLE
3	THREE WAY SWITCH		SPECIAL PURPOSE RECEPTACLE
4	FOUR WAY SWITCH	J	JUNCTION BOX
P	SWITCH WITH PILOT LIGHT	J	WALL MOUNTED JUNCTION BOX
D	DIMMER SWITCH		PLUGMOLD
LV	LOW VOLTAGE SWITCH		TELEPHONE/DATA OUTLET - REFER TO NOTE 6
M	MOTOR RATED SWITCH		TELEPHONE BOARD
	SWITCHBOARD/DISTRIBUTION PANELBOARD		TIMECLOCK
	BRANCH CIRCUIT PANELBOARD		TELEVISION OUTLET - REFER TO NOTE 4
	CONDUIT AND HOMERUN TO PANEL - NOTE 2	F	FIRE ALARM PULL STATION
	CONDUIT W/ ONE GND, 3 PHASE & ONE NEUTRAL	F	FIRE ALARM STROBE/HORN UNIT
	CONDUIT W/ ONE PHASE & ONE NEUTRAL	F	FIRE ALARM STROBE ONLY
	GROUND	S	CEILING MTD SMOKE DETECTOR
	MOTOR	D	DUCT MOUNTED SMOKE DETECTOR
	NON-FUSED DISCONNECT SWITCH	H	CEILING MOUNTED HEAT DETECTOR
	FUSED DISCONNECT SWITCH	K	KEY PAD - REFER TO NOTE 8
30/3/25	DISCONNECT SIZE / POLES / FUSE SIZE	CR	CARD READER - REFER TO NOTE 8
	COMB STARTER/DISCONNECT SW		SECURITY CAMERA - REFER TO NOTE 8
	PUSHBUTTON	PP	POWER PACK - REFER TO NOTE 5
		OS	OCCUPANCY SENSOR - REFER TO NOTE 5
		VS	VACANCY SENSOR - REFER TO NOTE 5
•	MOUNTED ABOVE COUNTER	(E)	INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN
AFF	ABOVE FINISHED FLOOR	(ER)	INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED.
GFI	GROUND FAULT CIRCUIT INTERRUPTING	(EL)	INDICATES EXISTING DEVICE OR EQUIPMENT TO BE RELOCATED
NF	NON-FUSIBLE (DISCONNECT)	(EN)	INDICATES EXISTING DEVICE OR EQUIPMENT NEW LOCATION
WP	WEATHERPROOF	CLG	CEILING MOUNTED
IG	ISOLATED GROUND DEVICE - REFER TO NOTE 3		

NOTES:

1. LETTER ADJACENT TO FIXTURE DENOTES FIXTURE TYPE. REFER TO LIGHT FIXTURE SCHEDULE.
2. WHEN NO HASH MARKS ARE SHOWN, PROVIDE ONE PHASE CONDUCTOR, ONE NEUTRAL CONDUCTOR, AND ONE GROUND CONDUCTOR.
3. ISOLATED GROUND DEVICES SHALL HAVE COMPUTER-GRADE CIRCUITS. COMPUTER GRADE CIRCUITS SHALL HAVE 1#12 PHASE, 1#12 NON-SHARED, DEDICATED NEUTRAL, 1#12 NON-SHARED DEDICATED ISOLATED GROUND.
4. INSTALL TELEVISION JACK AND RECEPTACLE IN TV BRACKET. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT OUTLET LOCATION (HEIGHT, BRACKET TYPE, ETC.) PRIOR TO INSTALLATION.
5. REFER TO SPECIFICATIONS FOR LOCATION AND QUANTITY INFORMATION.
6. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. THE NUMBER NEXT TO THE DEVICE INDICATES THE QUANTITY OF EACH JACK TO BE PROVIDED. WHERE NO NUMBER IS INDICATED PROVIDE ONEOF EACH TYPE OF JACK.
7. PROVIDE DIRECTIONAL ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS AND AS REQUIRED TO DEFINE EXIT PATH.
8. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE.

GENERAL NOTES:

A. ALL LIGHT FIXTURES ON LIGHTING PLANS SHALL BE TYPE 'A' UNLESS NOTED OTHERWISE.

B. SOME OF THESE SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

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BHB Project # 2021.010.010

KEYED NOTES

1. PROVIDE CIRCUIT BREAKER TO MATCH EXISTING CIRCUIT BREAKERS IN EXISTING SPACE.

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY A

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06-13-2022

MENTAL HEALTH JAIL DIVERSION CENTER RENOVATION PROJECT

812 WEST MORPHY STREET
FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:
ISSUED FOR: 100% CD	DRAFTER: BF
ISSUE DATE: 06.13.2022	CHECKED: KR

PANEL SCHEDULES

SHEET
E1-00

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COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Tarrant County Mental Health Jail Diversion Center
Project Type: Addition

Construction Site:
812 Morphy Street
Fort Worth, TX 76104

Owner/Agent:

Designer/Contractor:
Beth Fowler
Baird Hampton and Brown
6300 Ridglea Place
Suite 700
Fort Worth, TX 76116
817-338-1277
bfowler@bhbinc.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Storage >=50 - <=1000 sq.ft.	129	0.63	81
2-Parking Garage:Garage Area	762	0.19	145
3-Common Space Types:Office - Enclosed	171	1.11	190
4-Common Space Types:Restrooms	50	0.98	49
5-Common Space Types:Lobby - General	42	0.90	38
6-Common Space Types:Corridor/Transition <8 ft wide	35	0.66	23
		Total Allowed Watts =	526

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Common Space Types:Storage >=50 - <=1000 sq.ft.				
LED 2: C/CE: Linear Industrial Strip: Other:	1	2	28	55
2-Parking Garage:Garage Area				
LED 1: A1A1E: Recessed Downlight: Other:	1	17	17	289
3-Common Space Types:Office - Enclosed				
LED 1 copy 1: A3: Recessed Downlight: Other:	1	5	17	85
4-Common Space Types:Restrooms				
LED 2 copy 1: A2/A2E: Recessed Downlight: Other:	1	1	22	22
5-Common Space Types:Lobby - General				
LED 2 copy 2: A2/A2E: Recessed Downlight: Other:	1	1	22	22
6-Common Space Types:Corridor/Transition <8 ft wide				
LED 2 copy 3: A2/A2E: Recessed Downlight: Other:	1	1	22	22
		Total Proposed Watts =		495

Interior Lighting PASSES: Design 6% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Beth Fowler - Electrical Designer
Name - Title

Signature

06/13/2022
Date

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Tarrant County Mental Health Jail Diversion Center
Project Type: Addition
Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site:
812 Morphy Street
Fort Worth, TX 76104

Owner/Agent:

Designer/Contractor:
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Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Main entry	3 ft of door	20	Yes	60
Illuminated area of facade wall or surface	236 ft2	0.1	No	24
Other door (not main entry)	6 ft of door	20	Yes	120
		Total Tradable Watts (a) =		180
		Total Allowed Watts =		204
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Main entry (3 ft of door width): Tradable Wattage				
LED 1: W1: Wall Pack: Other:	1	2	4	8
Illuminated area of facade wall or surface (236 ft2): Non-tradable Wattage				
LED 3: W2: Wall Pack: Other:	1	2	19	38
Other door (not main entry) (6 ft of door width): Tradable Wattage				
LED 2: W1: Wall Pack: Other:	1	1	4	4
		Total Tradable Proposed Watts =		12

Exterior Lighting PASSES: Design 98% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Beth Fowler - Electrical Designer
Name - Title

Signature

06/13/2022
Date

COMcheck Software Version 4.1.5.4

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Tarrant County Mental Health Jail Diversion Center
Project Type: Alteration

Construction Site:
812 Morphy Street
Fort Worth, TX 76104

Owner/Agent:

Designer/Contractor:
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bfowler@bhbinc.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Office - Enclosed	881	1.11	978
2-Common Space Types:Corridor/Transition >=8 ft wide: Exempt			
		Total Allowed Watts =	978

Area Category Exemption Qualifications

Activity Area	# Fixtures Pre-Alt.	# Fixtures Repl./Added	Total # Watts Pre-Alt.	Total # Watts Post-Alt.
Common Space Types:Corridor/Transition >=8 ft wide (172 sq.ft.)	3	0	96.000	96.000
Exemption: Less than 50% fixture replacement.				

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types:Office - Enclosed (881 sq.ft.)				
LED 1: A1: 4" Recessed Downlight: Other:	1	19	17	323
Common Space Types:Corridor/Transition >=8 ft wide (172 sq.ft.): Exempt				
		Total Proposed Watts =		323

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Beth Fowler - Electrical Designer
Name - Title

Signature

03/21/2022
Date

KEYED NOTES

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY #

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PROFESSIONAL ENGINEER

06-13-2022

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FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F MANAGER:
ISSUED FOR: 100% CD DRAFTER: BF
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COMCHECK FORMS

SHEET

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BHB Project # 2021.010.010

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PLAN NORTH

1 LEVEL 1 FLOOR PLAN - POWER

1/8" = 1'-0"

MECHANICAL EQUIPMENT SCHEDULE			
EQUIPMENT TAG	CIRCUIT NUMBER	FEEDER	DISCONNECT
EF-1	G-8	1#12, #12G., 3/4"C.	CONTROLLED WITH LIGHT SWITCH
EF-2	G-2	1#12, #12G., 3/4"C.	MOTOR RATED SWITCH
EF-3	G-17	1#12, #12G., 3/4"C.	CONTROLLED WITH WALL SWITCH
EH-1	G-5	1#12, #12G., 3/4"C.	MOTOR RATED SWITCH
HP-1	G-1,3	2#12, #12G., 3/4"C.	30/2/NF
IWH-1	G-10,12	2#10, #10G., 3/4"C.	30/2/NF
UH-1	G-14,16,18	3#12, #12G., 3/4"C.	30/3/NF
UH-2	G-20,22,24	3#12, #12G., 3/4"C.	30/3/NF

NOTES BY SYMBOL: "⬡"

1. POWER FOR EXISTING WASHER. CONTRACTOR SHALL REUSE EXISTING CIRCUIT BREAKER CURRENTLY SERVING EXISTING WASHER. REFER TO NOTE BY SYMBOL 1, SHEET ED1-12 FOR ADDITIONAL INFORMATION.
2. POWER FOR EXISTING DRYER. CONTRACTOR SHALL REUSE EXISTING CIRCUIT BREAKER CURRENTLY SERVING EXISTING DRYER. REFER TO NOTE BY SYMBOL 2, SHEET ED1-12 FOR ADDITIONAL INFORMATION.
3. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING PRIOR TO ROUGH-IN.
4. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL SERVING THIS AREA.
5. EXHAUST FAN EF-1 IS CONTROLLED IN CONNECTION WITH LIGHT SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. COORDINATE EXACT LOCATION OF EXHAUST FAN SWITCH WITH LIGHTSWITCH.
7. MOTORIZED DAMPER. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. APPROXIMATE LOCATION OF PUSH-BUTTON CONTROL(S) FOR GARAGE DOOR OPENER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES

1. SECURITY CAMERAS ARE OWNER FURNISHED, OWNER INSTALLED.
2. STRUCTURED CABLING IS OWNER FURNISHED, OWNER INSTALLED.

REVISIONS DENOTED BY △#

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FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F | MANAGER:
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LEVEL 1 FLOOR PLAN - POWER

SHEET

E1-11

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N
PLAN NORTH

1 LEVEL 2 FLOOR PLAN - POWER
1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER IN EXISITNG PANEL SERVING THIS AREA.
2. CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING RECEPTACLE LOAD IN THIS SPACE. CONFIRM CIRCUIT HAS SPARE CAPACITY.

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY A

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LEVEL 2 FLOOR PLAN - POWER

SHEET
E1-12

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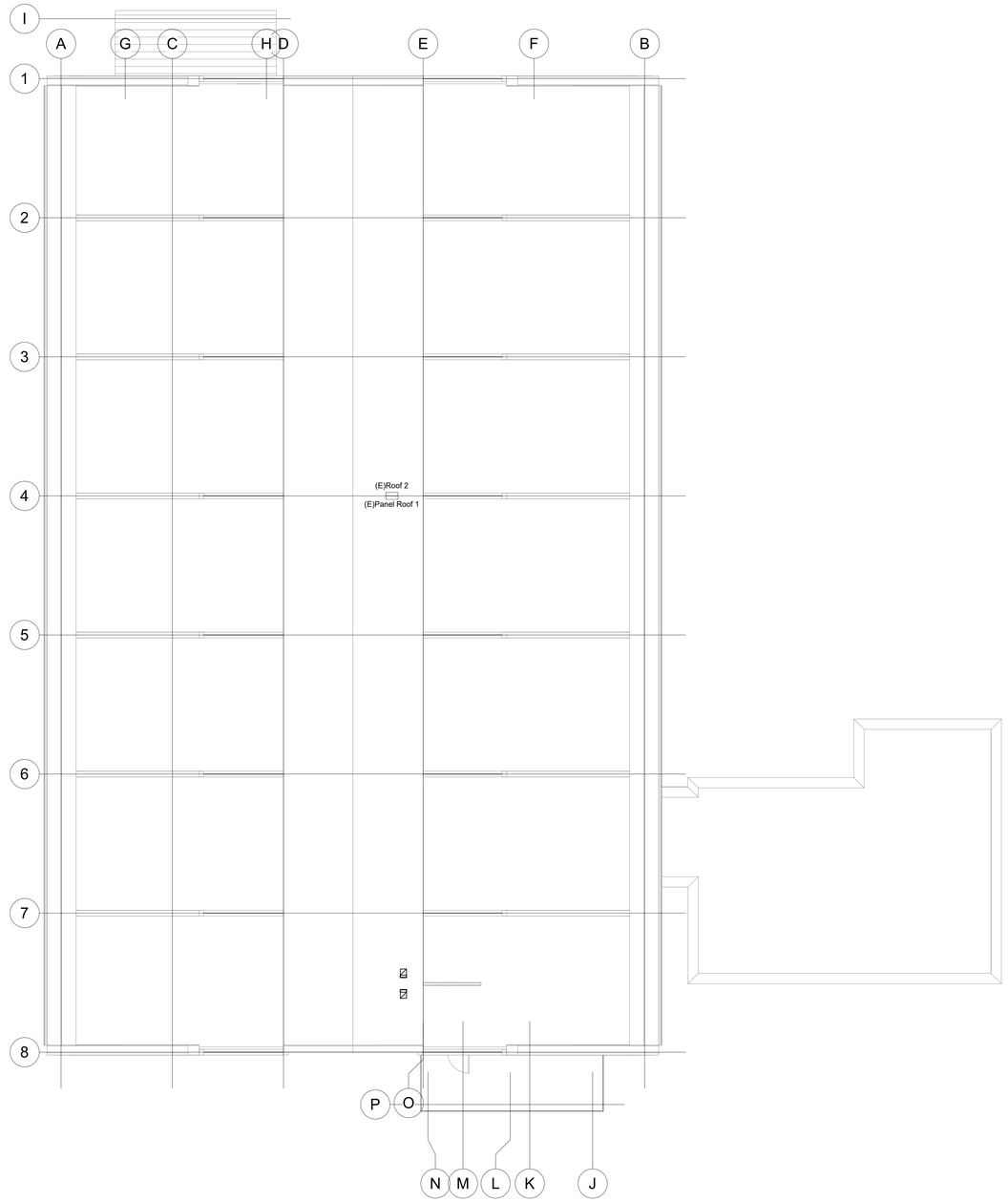

N
PLAN NORTH

1 ROOF PLAN - POWER
1/8" = 1'-0"

KEYED NOTES

GENERAL NOTES

KEY PLAN

REVISIONS DENOTED BY #

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FORT WORTH, TEXAS 76104

PROJECT #: 21063-00F	MANAGER:Designer
ISSUED FOR: 100% CD	DRAFTER: Author
ISSUE DATE: 06.13.2022	CHECKED: Checker

ROOF PLAN - POWER

SHEET
E1-13

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NOTES BY SYMBOL: "⬡"

1. CONNECT TO EXISTING LIGHTING CIRCUIT IN THIS SPACE. PROVIDE CONTROLS AS SHOWN IN DETAIL 2, SHEET E2-11.
2. CONNECT LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT IN THIS SPACE. CONNECT TO EXISTING CONTROLS FOR HALLWAY 134.
3. REFER TO DETAIL 2, SHEET E2-11 FOR ADDITIONAL INFORMATION ON LIGHTING CONTROLS IN THIS SPACE.

LIGHTING CIRCUIT AS SHOWN ON PLANS

TO LIGHT FIXTURE(S) — PP — VS — $ LV

NUMBER OF POWER PACKS, SENSORS AND SWITCHES VARY. SEE LIGHTING PLANS FOR EXACT QUANTITIES

CAT-5 CABLE

LINE VOLTAGE

2 LIGHTING CONTROLS DETAIL
NTS

N
PLAN NORTH

1 LEVEL 1 REFLECTED CEILING PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

1. CONNECT ALL EXIT LIGHTS TO LOCAL LIGHTING CIRUCIT AND AHEAD OF SWITCH.

KEY PLAN

REVISIONS DENOTED BY: A

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FORT WORTH, TEXAS 76104

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LEVEL 1 REFLECTED CEILING PLAN - LIGHTING

SHEET
E2-11

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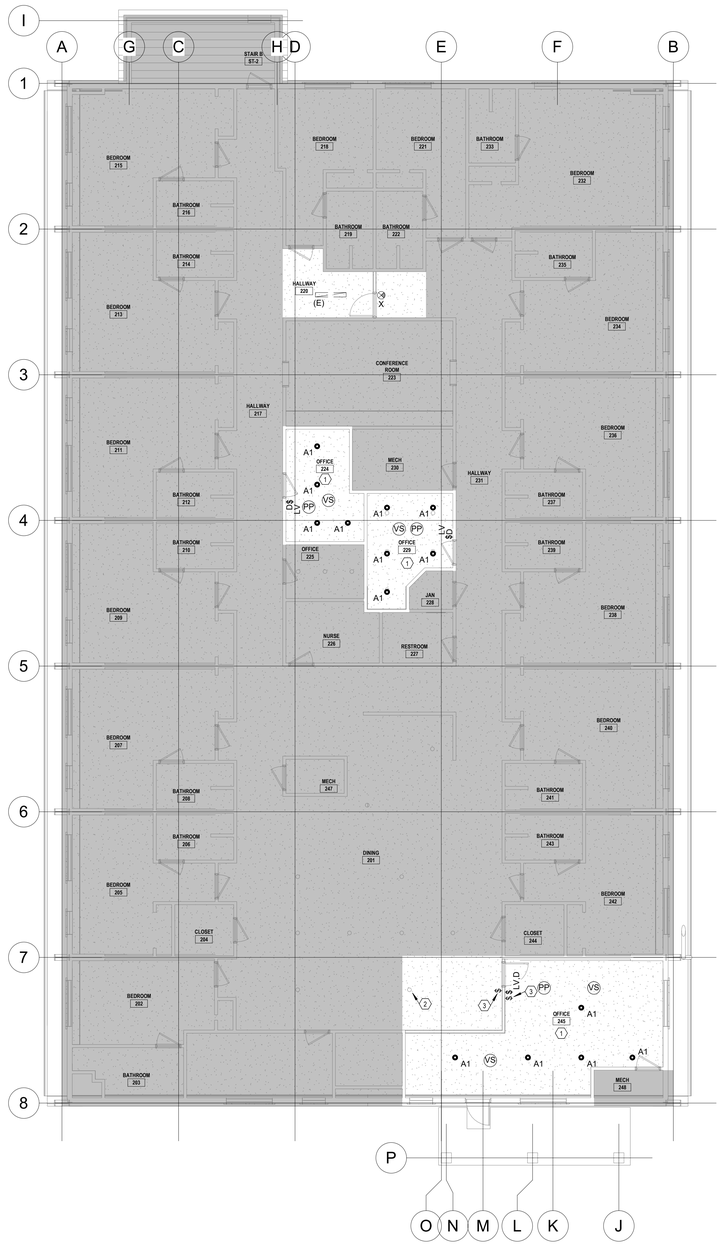

LIGHTING CIRCUIT AS SHOWN ON PLANS

TO LIGHT FIXTURE(S) — PP — VS — LV

NUMBER OF POWER PACKS, SENSORS AND SWITCHES VARY. SEE LIGHTING PLANS FOR EXACT QUANTITIES

CAT-5 CABLE

LINE VOLTAGE

2 LIGHTING CONTROLS DETAIL

NTS

N

PLAN NORTH

1 LEVEL 2 REFLECTED CEILING PLAN - LIGHTING

1/8" = 1'-0"

NOTES BY SYMBOL: "⬡"

1. CONNECT TO EXISTING LIGHTING CIRCUIT IN THIS SPACE. PROVIDE CONTROLS AS SHOWN IN DETAIL 2, SHEET E2-12.
2. CONNECT LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT IN THIS SPACE. CONNECT TO EXISTING CONTROLS FOR DINNING 201.
3. CONTROL FOR CEILING FANS IN THIS SPACE.

GENERAL NOTES

1. CONNECT ALL EXIT LIGHTS TO LOCAL LIGHTING CIRUCIT AND AHEAD OF SWITCH.

KEY PLAN

REVISIONS DENOTED BY A

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LEVEL 2 REFLECTED CEILING PLAN - LIGHTING

SHEET

E2-12

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