Linn-San Manuel Emergency Services Facility

Hidalgo County Precinct No. 4

HIDALGO COUNTY PRECINCT 4
JOSEPH PALACIOS, COMMISSIONER
1051 NORTH DOOLITTLE ROAD
EDINBURG, TEXAS 78542

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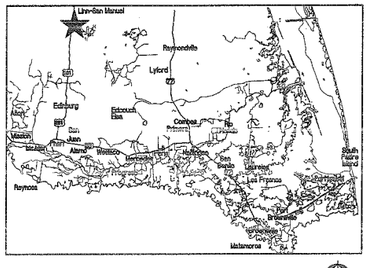
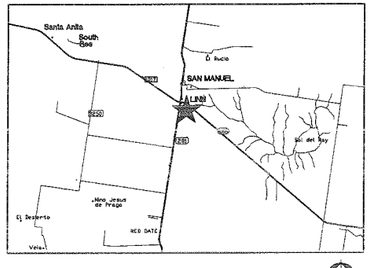
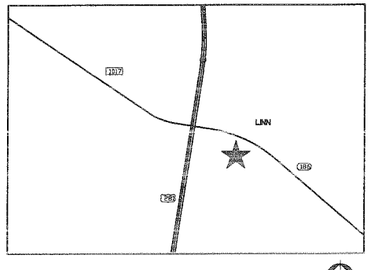


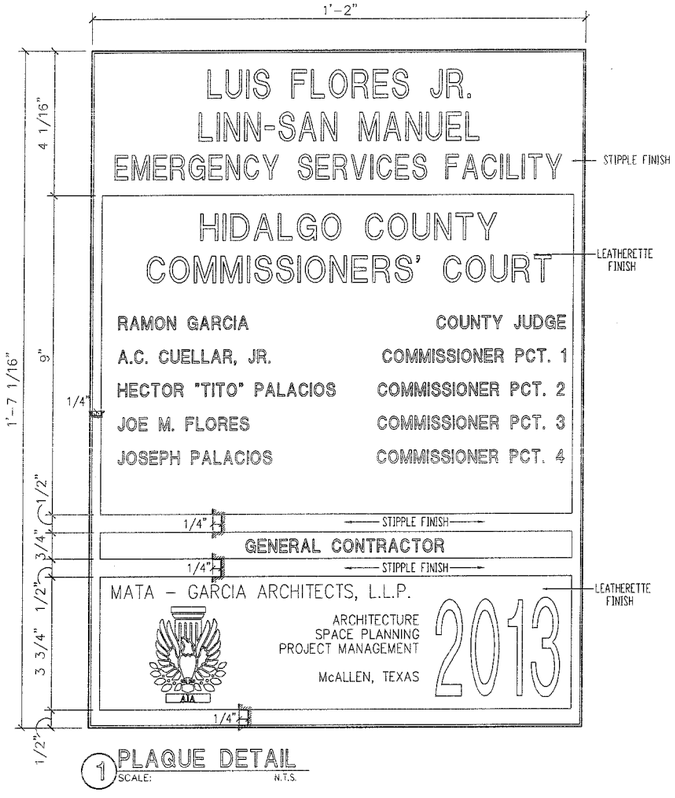
REGION MAP NORTH



CITY MAP NORTH



STREET MAP NORTH



1 PLAQUE DETAIL
SCALE: N.T.S.

PROJECT DATA

BUILDING CODE: INTERNATIONAL BUILDING CODE 2009

INTERPRETATION
1. PROJECT DESCRIPTION: NEW COMMERCIAL CONSTRUCTION
2. AREAS:
   AREA 1 - GROUP B
   CONSTRUCTION TYPE VB - SPRINKLERED
   ALLOWABLE AREA = 9,000 SQ.FT ACTUAL AREA = 3,231 SQ.FT
   AREA 2 - GROUP S-1
   CONSTRUCTION TYPE IIB - SPRINKLERED
   ALLOWABLE AREA = 17,500 SQ.FT ACTUAL AREA = 3,689 SQ.FT
   AREA 3 - GROUP U (ACCESSORY BUILDING)
   CONSTRUCTION TYPE IIB - UNSPRINKLERED
   ALLOWABLE AREA = 8,500 SQ.FT ACTUAL AREA = 2,156 SQ.FT
3. ACCESSIBILITY: TEXAS ACCESSIBILITY STANDARDS 2012

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PROJECT #: 201310
DATE:
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4
PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

HECTOR R. GARCIA 13962
LICENSE EXPIRES 03/31/2014

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SHEET: 0.0

4.2 SPACE ALLOWANCES AND REACH RANGES

TAS SECTIONS 4.2.1 – WHEELCHAIR PASSAGE WIDTH

A. The minimum clear width for single wheelchair passage shall be 32" at a point and 36" continuously

TAS SECTIONS 4.2.2 – WIDTH FOR WHEELCHAIR PASSING

A. The minimum clear width for two wheelchairs to pass is 60"

TAS SECTIONS 4.2.4.1 – SIZE AND APPROACH

A. Minimum clear floor space for a wheelchair and occupant shall be 30" wide x 48" long. Clear floor space shall be centered on the element it serves.

4.3 ACCESSIBLE ROUTE

TAS SECTIONS 4.3.2 – LOCATION

A. At least one accessible route shall be provided from public transportation stops, accessible parking and loading zones, and public streets or sidewalks to the accessible building entrance.

TAS SECTIONS 4.3.3 – WIDTH

A. The minimum clear width of an accessible route shall be 36" except at doors.

TAS SECTIONS 4.3.4 – PASSING SPACE

A. If an accessible route is less than 60" in width, then passing spaces of at least 60"x60" shall be provided at 200' max. spacing.

TAS SECTIONS 4.3.5 – HEAD ROOM

A. Accessible routes shall have 80" min. clear head room.

TAS SECTIONS 4.3.7 – SLOPE

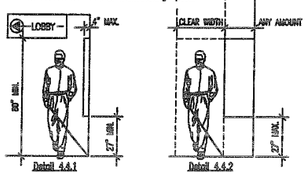
A. Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer to section 4.8)

B. Cross slope shall not exceed 1:50

4.4 PROTRUDING OBJECTS (REFERENCE DETAIL 4.4.1 & 4.4.2)

TAS SECTIONS 4.4.1 – GENERAL

A. Objects projecting from walls (for example, telephones) with their leading edges between 27"–80" above the finished floor shall protrude no more than 4" into walks, halls, corridors, passageways, or aisles. Objects mounted with their leading edges at or below 27" above the finished floor may protrude any amount. Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27"–80" above the ground or finished floor. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.



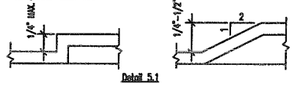
Detail 4.4.1 Detail 4.4.2

4.5 GROUND AND FLOOR SURFACES

TAS SECTIONS 4.5.2 – CHANGES IN LEVEL (REFERENCE DETAIL 5.1)

A. Changes in level up to 1/4" may be vertical and without edge treatment

B. Changes in level between 1/4" and 1/2" shall be beveled with a slope no greater than 1:2.



Detail 5.1

TAS SECTIONS 4.5.3 – CARPET

A. Carpet provided on a floor surface shall be securely attached; have a firm pad or backing, or no pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Maximum pile thickness shall be 1/2". Exposed edges of carpet shall be fastened to floor surfaces and have trim along the exposed edges.

TAS SECTIONS 4.5.4 – GRATINGS

A. If gratings are located in walking surfaces or along accessible routes, then they shall have spaces no greater than 1/2" wide in one direction.

B. If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

4.6 PARKING AND PASSENGER LOADING ZONES

TAS SECTIONS 4.6.3 – PARKING SPACES

A. Accessible parking shall be at least 96" wide.

B. Parking access aisles shall be 60" wide.
Van accessible access aisles shal be 96" wide.

C. Surface slope shall not exceed 1:50 in all directions
(Note : no built up curb ramp may be located in an accessible parking access aisle.)

TAS SECTIONS 4.6.4 – SIGNAGE

A. Each accessible parking space must have individual vertically mounted or suspended sign. Required van accessible spaces must be designatred.

A. Characters and symbols on such signs shall be located 60" minimum above the ground.

B. Signage located within an accessible route shall be located 80" min. above the walking surface.

TAS SECTIONS 4.6.5 – VERTICAL CLEARANCE

A. Provide minimum vertical clearance of 114" at accessible passenger loading zones and along at least one vehicle access route from site entrances and exits.

TAS SECTIONS 4.6.6 – PASSENGER LOADING ZONE

A. Passenger loading zones shall provide an access aisle at least 60" wide and 20 ft long adjacent and parallel to the vehicle pull-up space. If there are curbs between the access aisle and the vehicle pull-up space, then a curb ramp complying with 4.7 shall be provided. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 in all directions.

4.7 CURB RAMPS

TAS SECTIONS 4.7.2 – SLOPE (REFERENCE DETAIL 4.7)

A. Slopes of curb ramps shall comply with 4.8.2.

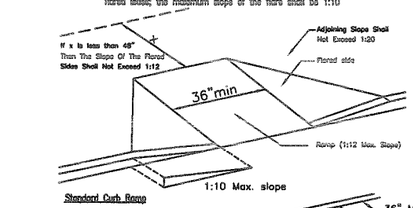
B. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

TAS SECTIONS 4.7.3 – WIDTH (REFERENCE DETAIL 4.7)

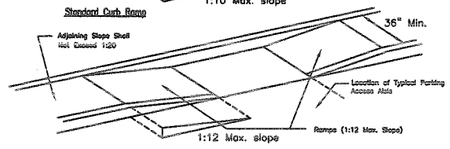
A. The minimum width of a curb ramp shall be 36", exclusive of flared sides.

TAS SECTIONS 4.7.5 – SIDES OF CURB RAMPS (REFERENCE DETAIL 4.7)

A. If a curb ramp is located where pedestrians must walk across the ramp or where it is not protected by handrails or guardrails, it shall have flared sides; the maximum slope of the flare shall be 1:10



Standard Curb Ramp



Curb Ramp Parallel to Curb

Detail 4.7

TAS SECTIONS 4.7.10 – DIAGONAL CURB RAMPS

A. If diagonal curb ramps have returned curbs or other wall-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48" minimum clear space. If diagonal curb ramps are provided at marked crossings, the 48" clear space shall be within the markings. If diagonal curb ramps have flared sides, they shall also have at least a 24" long segment of straight curb located on each side of the curb ramp and within the marked crossing.

TAS SECTIONS 4.7.11 – ISLANDS

A. Any raised islands in crossings shall be cut through level with the street or curb ramps at both sides and a level area at least 48" long between the curb ramps in the part of the island intersected by the crossings.

4.8 RAMPS

TAS SECTIONS 4.8.1 – GENERAL

A. Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp and shall comply with 4.8

TAS SECTIONS 4.8.2 – SLOPE AND RISE

A. The least possible slope shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any run shall be 30".

TAS SECTIONS 4.8.3 – CLEAR WIDTH

A. The minimum clear width of a ramp 30 ft or less in length shall be 36". Ramps more than 30 ft in length shall have a minimum clear width of 44".

TAS SECTION 4.8.4 – LANDINGS

A. Level landings required at top and bottom of each run, with the following features:
1. Minimum Width: Equal to width of ramp
2. Length: Minumum 60" clear
3. At change of direction landing shal be 60" x 60" min.

TAS SECTION 4.8.5 – HANDRAILS

A. Handrails are required at all ramps with > 6" rise.

B. Height: 34–38" above ramp surface

C. The clear space between the handrail and the wall shall be 1–1/2".

TAS SECTIONS 4.8.7 – EDGE PROTECTION

A. Ramps and landings with drop offs shall have curbs, walls, railings, or projecting surfaces that prevent slipping off the ramp. Curbs shall be a minimum of 2" high.

4.9 STAIRS

TAS SECTIONS 4.9.2 – TREADS AND RISERS

A. All steps on a flight of stairs shall have uniform riser heights and tread widths

1. Minimum tread depth shall be 11", measured from riser to riser (not including nosing)
2. Open risers are not permitted

TAS SECTION 4.9.4 – HANDRAILS

A. Non-continuous handrails shall extend 12" beyond the top riser and 12" plus the width of one tread beyond the bottom riser. At the top, the extension shall be parallel to the floor. At the bottom, the handrail shall continue to slope for a distance of one tread width (11"); the remaining extension shall be horizontal.

B. Height: 34" – 38", measured from the stair nosing.

4.10 ELEVATORS

TAS SECTIONS 4.10.3 – HALL CALL BUTTONS

A. Shall be centered 42" above floor

TAS SECTIONS 4.10.4 – HALL LANTERNS

A. Visible signals shall have the following features:
1. Fixtures shall be mounted with centerline at least 72" above the lobby floor
2. Visual elements shall be at least 2–1/2" in the smallest dimension

TAS SECTIONS 4.10.5 – RAISED AND BRAILLE CHARACTERS ON HOISTWAY ENTRANCES

A. All elevator hoistway entrances shall have raised and Braille floor no. designations provided on both jambs. Centerline of the characters shall be 60" above the floor. Characters shall be 2" high.

TAS SECTIONS 4.10.6 – DOOR PROTECTIVE AND REOPENING DEVICE

A. Elevator doors shall open and close automatically. They shall be provided with a reopening device that will stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

TAS SECTIONS 4.10.12 – CAR CONTROLS

A. All floor buttons shall be:
1. All control buttons shall be at least 3/4" in their smallest dim. They shall be flush or raised.
2. All control buttons shall be designated by Braille and by raised standard alphabet characters for letters, arabic characters for numerals. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation.
3. Maximum 54" above floor where side approach is provided
4. Maximum 48" where forward approach is provided

B. Emergency Controls:
1. Shall have centerlines 35" minimum above floor
2. Shall be grouped at bottom of panel

C. The emergency communication system shall not require voice communication.

4.11 PLATFORM LIFTS

NOTE : REQUIRES A VARIANCE FROM THE T.D.L.R. TO USE IN LIEU OF AN ELEVATOR

TAS SECTIONS 4.11.2, 4.27.3 – OTHER REQUIREMENTS
CONTROLS AND OPERATING SYSTEMS

A. Heights permitted:
Controls and operating mechanisms shall be located for either a forward or side approach from any direction of travel. They shall be located 25" min. and 48" maximum above the floor. They shall be operable with one hand. There shall be at least one handrail complying with 4.26. Wheelstops and guardrails shall be provided where necessary.

4.13 DOORS

TAS SECTION 4.13.4 – DOUBLE – LEAF DOORWAYS

A. Doorways with two independently operated leaves shall have at least one active leaf that meets the requirements in 4.13.5 and 4.13.8.

TAS SECTION 4.13.5 – CLEAR WIDTH

A. Doorways shall provide a clear opening of 32" minimum, with the door open 90°.
1. Clear opening shall be measured between the face of the door and opposite stop.
2. Openings more than 24" in depth shall provide a clear opening of 36" minimum.
Exception: Doors not requiring full user passage, such as shallow closets, shall have a clear opening of 20" minimum.

TAS SECTION 4.13.6 – MANEUVERING CLEARANCES AT DOORS

Provide level (1:50 max. slope) and clear maneuvering area at doors as follows:

A. Front approach pull side – 60" min. width & 18" min. beside strike edge
Front approach push side – 48" min width & 0" beside strike edge
(12" @ strike if door has both a closer and a latch)

B. Hinge side approach pull side – 60" min. width; 36" min. beside strike edge or – 54" min. width; 42" min. beside strike edge
Hinge side approach push side – 42" min. width & 18" min. beside hinge edge
(48"min. width if door has both a closer and a latch)

C. Latch side approach pull side – 46" min. width and 24" min. beside strike edge
(54"min. width if door has a closer)
Latch side approach push side – 42" min. width and 24" min. beside strike edge
(48"min. width if door has a closer)

TAS SECTIONS 4.13.8 – THRESHOLDS AT DOORWAYS

A. Maximum threshold height: 1/2" (3/4" at exterior sliding doors). Raised thresholds and floor level changes shall be beveled with a slope no greater than 1:2.

TAS SECTION 4.13.9 – DOOR HARDWARE

A. Handles, pulls, latches, locks, and other operating devices shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate.

1. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs.

2. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides.

3. Hardware required for accessible door passage shall be mounted no higher than 48" above finished floor.

TAS SECTION 4.13.10 – DOOR CLOSERS

A. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70°, the door will take at least 3 seconds to move to a point 3" from the latch, measured to the leading edge of the door.

TAS SECTION 4.13.11 – DOOR OPENING FORCE

A. The maximum force for pushing or pulling open a door shall be as follows:

1. Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

2. Other doors
a. Exterior hinged doors: no requirement.
b. Interior hinged doors: 5.0 lbf.
c. Sliding or folding doors: 5.0 lbf.
These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

4.15 DRINKING FOUNTAINS

TAS SECTION 4.15.2 – SPOUT HEIGHT (REFERENCE DETAIL 4.15 for accessible unit)

A. Accessible spouts shall be no higher than 36", measured from the floor or ground surface to the spout outlet.

B. In addition to accessible unit, at least one drinking fountain shall be at standard height (may be 'high/low' type if located in one location).

TAS SECTION 4.15.3 – SPOUT LOCATION

A. Spouts shall be located at the front of the unit and shall direct the water flow in a trajectory that is parallel or nearly parallel to the front of the unit.

1. The spout shall provide a flow of water at least 4" high.
2. If the fountain has a round or oval bowl, the spout must be positioned so the flow of water is within 3" of the front edge of the fountain.

TAS SECTION 4.15.4 – CONTROLS

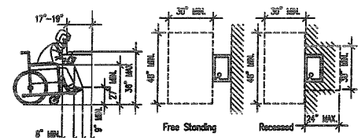
A. Unit controls shall be front mounted or side mounted near the front edge.

TAS SECTION 4.15.5 – CLEARANCES (REFERENCE DETAIL 4.15).

A. Wall and post mounted cantilever fountains shall have clear knee space as follows:

1. Minimum 27" high (from apron bottom to floor) minimum 30" wide, and 17" – 19" deep.
2. A minimum 30" by 48" clear floor space allowing a forward approach to the unit shall be provided.

B. Free standing or built-in units not having a clear knee space shall have a minimum 30" by 48" clear floor space allowing a parallel approach to the unit.



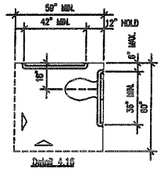
Detail 4.15

4.16 WATER CLOSETS

TAS SECTION 4.16.2 – CLEAR FLOOR SPACE

A. Clear floor space for water closets not in stalls shall be provided as follows:
Front approach – 48" min. wide x 66" min. long
Side approach – 56" min. to front of toilet x 48" min. wide
Both approach – 60" min. wide x 56" min. long (Reference Detail 4.16)

B. No doorswings are allowed in clear floor area.



Detail 4.16

TAS SECTION 4.16.3 – HEIGHT (REFERENCE DETAIL 4.16.2)

A. The height to the top of the toilet seat shall be 17" – 19" above floor.

1. Seats shall not be sprung to return to a lifted position.

TAS SECTIONS 4.16.4, 4.26 – GRAB BARS (REFERENCE DETAILS 4.16.1, 4.16.2 & 4.16.3)

A. For water closets not located in toilet stalls, the following grab bars shall be provided, 33" – 36" above the finish floor:

1. Side wall: 42" long minimum, hold 12" min. from back wall.
2. Back wall: 36" long minimum, 12" minimum each side of water closet centerline.

Refer to 4.26 Grab Bars for size and structural elements.

TAS SECTIONS 4.16.5, 4.27.4 – FLUSH CONTROLS (REFERENCE DETAIL 4.16.3)

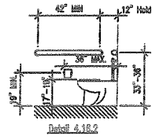
A. Controls shall be 44" maximum above the finish floor.

1. Lever controls or flush valves shall be mounted on the wide side of toilet areas.
2. Controls shall be hand operated or automatic.
3. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
4. The force required to activate controls shall be no greater than 5lbf.

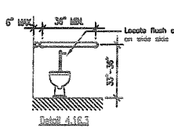
TAS SECTION 4.16.6 – DISPENSERS (REFERENCE DETAIL 4.16.2)

A. Toilet paper dispensers shall be installed on the side wall, a minimum 19" above the floor, and a maximum 36" from the rear wall.

1. Dispensers that control delivery or do not permit continuous paper flow shall not be used.



Detail 4.16.2



Detail 4.16.3

4.17 TOILET STALLS

TAS SECTION 4.22.4 – WHERE APPLICABLE

A. If toilet stalls are provided in a toilet room or bathroom, then at least one shall be a "standard" accessible toilet stall (for wheelchair users) complying with this section. (REFERENCE DETAIL 4.17.1)

B. If 6 or more toilet stalls are provided in a toilet room or bathroom in addition to the 'standard' accessible stall required; an additional 'alternate A' accessible stall 36" wide (for ambulatory persons with disabilities) complying with this section shall be provided. (REFERENCE DETAIL 4.17.2)

C. Alterations/Existing Conditions: in alteration work, where provision of a 'standard' accessible stall is technically infeasible, or where plumbing code requirements prevent combining existing stalls to provide space, either 'alternate' stall (A or B) complying with this section may be provided in lieu of the standard stall. (Note :requires a variance from T.D.L.R.)

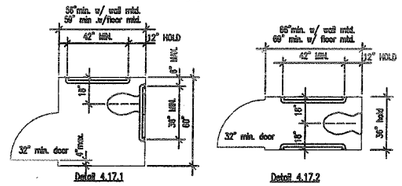
TAS SECTION 4.17.3 – SIZE AND ARRANGEMENT (REFERENCE DETAIL 4.17)

A. Toilet stalls may be arranged to provide either a left or a right handed approach. Accessible toilet stalls shall have the following dimensions:

1. 'Standard' Accessible Stall
60" minimum width.
59" minimum depth, with floor mounted water closet
56" minimum depth, with wall mounted water closet
Door: outward swinging (if door swings into stall, depth shall be increased by 36". Stall doors must have 18" on pull strike jamb.

2. 'Alternate A' Accessible Stall (required when more than 6 stalls provided, permitted in lieu of standard stall only with a variance from T.D.L.R.)
36" width – hold this dim.
69" minimum depth, with floor mounted water closet.
66" minimum depth with wall mounted water closet
Door: outward swinging.

3. 'Alternate B' Accessible Stall (permitted in lieu of standard stall only with variance from T.D.L.R.)
48" minimum width.
54" minimum depth.
Door : outward swinging.



Detail 4.17.1 Detail 4.17.2

TAS SECTION 4.17.4 – TOE CLEARANCES

A. In 'Standard' accessible stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" above the floor.

B. If the depth of the stall is greater than 60", the toe clearance is not required.

TAS SECTION 4.17.5 – DOORS

A. Toilet stall doors, including hardware, shall comply with 4.13 DOORS

B. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction shall be 42" minimum. (This is an exception from typical door manouvering clearances)

TAS SECTION 4.17.6 – GRAB BARS (REFERENCE DETAILS 4.16.2, 4.16.3, 4.17.1 & 4.17.2)

A. Grab Bars shall be mounted 33" – 36" above the floor.

Refer to 4.26 Grab Bars for size and structural requirements.

4.18 URINALS

TAS SECTION 4.18.2 – HEIGHT (REFERENCE DETAIL 12.3.1)

A. Urinals shall be stall-type or wallhung with a tapered, elongated rim at 17" maximum above the finished floor.
The rim shall extend a minimum of 14" from the wall.

TAS SECTION 4.18.3 – CLEAR FLOOR SPACE (REFERENCE DETAIL 4.18.1)

A. A clear floor space 30" wide by 48" deep minimum shall be provided in front of urinal to allow forward approach.

1. This space shall adjoin or overlap an accessible route.

2. Urinal shield that do not extend beyond the front edge of the urinal rim may be provided with 29" clearance between them.

3. Urinals installed in alcoves deeper than 24" require a manouvering area of at least 36" minimum wide, centered on fixture.

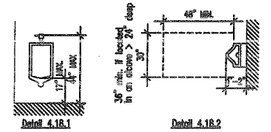
TAS SECTION 4.18.4 – FLUSH CONTROLS (REFERENCE DETAIL 4.18.2)

A. Controls shall be 44" maximum above the finished floor.

1. Controls shall be hand operated or automatic.

2. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

3. The force required to activate controls shall be no greater than 5 lfb.



Detail 4.18.1 Detail 4.18.2

4.19 LAVATORIES & MIRRORS

TAS SECTION 4.19.2 – HEIGHT & CLEARANCES (REFERENCE DETAIL 4.19.1 & 4.19.2)

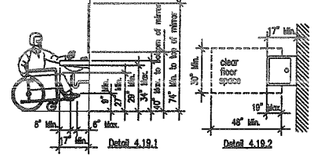
A. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finished floor.

1. Lavatories shall extend 17" minimum from the wall.

2. Clearance of 29" minimum shall be provided from the finished floor to bottom of apron.

3. Knee clearance of 27" minimum shall extend 8" minimum under the edge of the lavatory.

4. Toe clearance of 9" minimum shall be provided for the full depth of the lavatory.



PROJECT # 20130
DATE:
DRAWN BY:
CHECKED BY: H.R.G.
REVISION:
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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/2014

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ACCESSIBILITY GUIDELINES (TAS)

SHEET: A0.1

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TAS SECTION 4.19.4 – EXPOSED PIPES AND SURFACES

A. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact.

B. There shall be no sharp or abrasive surfaces under lavatories.

TAS SECTIONS 4.19.5, 4.27.6 – FAUCETS

A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate controls shall be no greater than 5 lbf.

C. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.

D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

TAS SECTION 4.19.6 – MIRRORS (REFERENCE DETAIL 4.19.1)

A. Mirrors shall be mounted with the bottom edge of the reflecting surface 40" maximum above the finished floor.

B. The top edge of the reflecting surface must be at least 74" AFF.

4.20 BATHTUBS

TAS SECTION 4.20.2 – FLOOR SPACE

A. Clear floor space shall be provided in front of bathtubs as follows:
30" wide x 80" long beside the bathtub for side approach
48" wide x 80" long beside the bathtub for front approach

with seat at head of tub – 30" wide x 75" long beside tub

TAS SECTION 4.20.3 – SEAT

A. An in-tub seat or a seat at the head end of the tub shall be provided. Seats shall be mounted securely and shall not slip during use.

TAS SECTIONS 4.20.4 – GRAB BARS

A. Heights permitted:

1. With in Tub Seat:
Foot Control wall: 24" long minimum, from outside wall, 33–36" above floor
Back wall: 2 bars, 24" long minimum, 12" maximum from foot wall, 24" maximum from head wall; one 33–36" above floor, one 9" above the tub
Head wall: 12" minimum, from outside wall, 33–36" above floor

2. With Seat at Head of Tub:
Control wall: 24" long minimum, from outside wall, 33–36" above floor
Back wall: 2 bars, 48" long minimum, 12" maximum from foot end, 15" maximum from head end; one 33–36" above floor, one 9" above the tub
Head wall: none

TAS SECTION 4.20.5

A. Controls must be located up front to the open side of tub

TAS SECTION 4.20.6 – SHOWER UNIT

A. A shower spray unit with a hose at least 60" long shall be provided that they can be used both as fixed and hand held.

4.21 SHOWER STALLS

TAS SECTION 4.21.2 – SIZE AND CLEARANCES

A. Shower stalls shall be either 36"x36" clear inside dimension (min) at transfer type or 30" min. x 60" min. clear inside dimension at roll in type.

TAS SECTIONS 4.21.3 – SEAT

A. Seat is required in 36"x 36" stalls, and shall have the following features:

1. Shall be 17"–19" above bathroom floor
2. Shall extend the full depth of the stall
3. Shall be located on the wall opposite control wall
4. Maximum space between wall and seat edge shall be 1–1/2"
5. Shall project 16" maximum into stall width, except at the rear 15" maximum of the stall, where the seat may project 23"
6. Where a seat is provided in a roll in type shower it must be the fold-up type.

TAS SECTIONS 4.21.4 – GRAB BARS

A. Grab bars shall be mounted 33–36" above floor

TAS SECTIONS 4.21.5 – CONTROLS

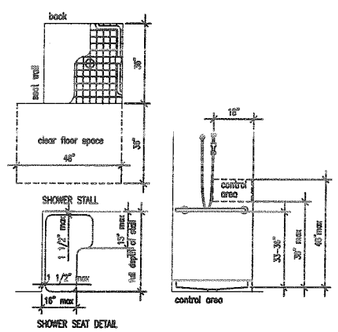
A. All shower controls shall be located 38" minimum and 48" maximum above the floor, up front on the open side.

TAS SECTION 4.21.6 – SHOWER UNIT

A. A shower spray unit with a hose at least 60" long that can be used both as a fixed shower head and as a hand held shower shall be provided. The mounting device shall comply with the requirements for Forward Reach.

TAS SECTIONS 4.21.7 – CURBS

A. If provided, curbs on transfer showers shall be no higher than 1/2" roll-in showers shall not have curbs



4.22 TOILET ROOMS

TAS SECTIONS 4.22.2 – DOORS

A. All doors to accessible toilet rooms shall comply with 4.13. Doors shall not swing into clear floor space required for any fixture. Clear floor turning space may overlap door swings.

TAS SECTIONS 4.22.3 – CLEAR FLOOR SPACE

A. The accessible fixtures and controls required in 4.22.4, 4.22.5, 4.22.6 4.22.7 shall be on an accessible route. An unobstructed turning space complying with 4.2.3 shall be provided within an accessible toilet room. The clear floor space of fixtures and controls, the accessible route, and the turning space may overlap, however, the only turning space provided shall not be located within a stall.

TAS SECTIONS 4.22.4 – WATER CLOSETS

A. If toilet stalls are provided, then at least one shall be a standard toilet stall complying with 4.17; where 6 or more stalls are provided in addition to the stall complying with 4.17.3, at least one stall 36" wide with an outward swinging, self-closing door and parallel grab bars shall be provided. Water closets in such stalls shall comply with 4.16.

TAS SECTIONS 4.22.5 – URINALS

A. If urinals are provided, then at least one shall comply with 4.18.

TAS SECTIONS 4.22.6 – LAVATORIES AND MIRRORS

A. If lavatories and mirrors are provided, then at least one of each shall comply with 4.19. Accessible lavatories and mirrors shall not be located within toilet stalls unless other accessible lavatories and mirrors are provided in the toilet room.

TAS SECTIONS 4.22.7 – CONTROLS AND DISPENSERS

A. If controls, dispencers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with 4.27 – (Controls & Operating Mechanisms).

4.23 – BATHROOMS, BATHING FACILITIES, AND SHOWER ROOMS

TAS SECTION 4.23.8 – BATHING AND SHOWER FACILITIES

A. In addition to the requirements of 4.22. toilet rooms :
If tubs and showers are provided, then at least one accessible tub that complies with 4.20 or at least one accessible shower that complies with 4.21 shall be provided

4.24 – SINKS

TAS SECTION 4.24.2 – HEIGHT

A. Sinks shall be mounted with the rim or counter surface no higher than 34" above the finished floor.

TAS SECTIONS 4.24.3 – KNEE CLEARANCE

A. Knee clearance of 27" high minimum, 30" wide minimum, and 10" deep minimum shall be provided underneath sinks.

TAS SECTION 4.24.4 – DEPTH

A. Each sink shall be a maximum of 6–1/2" deep.

TAS SECTION 4.24.6 – EXPOSED PIPES AND SURFACES

A. Hot water and drain pipes under sinks shall be insulated or otherwise configured to protect against contact.

B. There shall be no sharp or abrasive surfaces under sinks.

TAS SECTION 4.24.7, 4.27.4 – FAUCETS

A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate controls shall be no greater than 5 lbf.

C. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.

D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

4.25 – STORAGE

TAS SECTION 4.25.1 – DEPTH (REFERENCE DETAIL 4.25.1)

A. Storage areas may be 36" in depth or less. If more than 36" in depth then area must allow 60" diameter of clear floor space for turning.

TAS SECTION 4.25.2 – CLEAR FLOOR SPACE: (REFERENCE DETAIL 4.25.2)

TAS SECTION 4.25.3 – HEIGHT (REFERENCE DETAIL 14.3 AND 4.25.3 & 4.25.4)

A. Where a forward reach is required, accessible storage spaces shall be 48" maximum and 15" minimum above the floor. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20"–25" deep, the maximum height shall be 44"; If the obstruction is less than 20", maximum height shall be 48".

B. Where a side reach is provided, accessible storage spaces shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.

C. Clothes rods or shelves shall be a maximum 54" above floor where a side reach is required.

D. Where the distance from the wheelchair to the clothes rod or shelf exceeds 10" (as at closets with inaccessible doors) the following criteria shall be met:

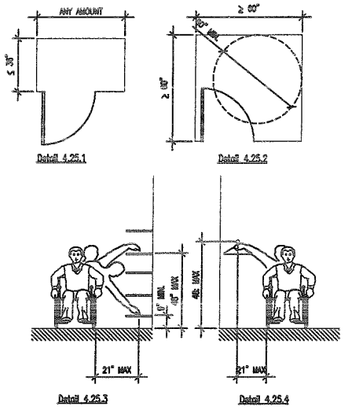
1. Shelves: Reach: 21" maximum; height: 48" maximum, 9" minimum.

2. Clothes rods: reach 21" maximum; height: 48" maximum.

TAS SECTIONS 4.25.4, 4.27.4 – HARDWARE

A. Hardware for accessible storage facilities shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate the hardware shall be no greater than 5 lbf



4.26 – GRAB BARS

TAS SECTION 4.26.2 – SIZE AND SPACING

A. Diameter or width of gripping surface shall be 1–1/4" to 1–1/2", or the shape shall provide an equivalent gripping surface.

1. The space between grab bars and adjacent walls shall be 1–1/2"

TAS SECTION 4.26.3 – STRUCTURAL STRENGTH

A. Grab bars and mounting devices shall meet the following requirements:

1. Bending stress induced by maximum bending moment from application of 250 lbf shall be less than allowable stress for material used.

2. Shear stress induced by application of 250 lbf shall be less than allowable shear stress for material used. If connection between grab bar and mounting bracket is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.

3. Shear force induced in a fastener or mounting device from application of 250 lbf shall be less than allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.

4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.

5. Grab bars shall not rotate within their fittings.

TAS SECTION 4.26.4 – ELIMINATING HAZARDS

A. Grab bars and adjacent wall surfaces shall be free of sharp or abrasive surfaces.

B. Edges shall have a radius of 1/8" minimum.

4.27 – CONTROLS AND OPERATING MECHANISMSS

TAS SECTION 4.27.3 – HEIGHT (REFERENCE DETAIL 4.30.3)

A. Front approach – 48" max. to 15" min.
Controls located in an alcove >24" deep must have 36" clear floor width.

B. Side approach – 54" max. to 9" min., except per below.

C. Electrical & communication system receptacls shall be mounted no less than 15" above the floor.

4.28 – ALARMS

TAS SECTION 4.28.1 – GENERAL

A. When required, visual alarms shall be provided in each of the following areas, as a minimum: restrooms and any other general usage areas (e.g., meeting rooms), hallways, lobbies, and any other area for common use.

TAS SECTION 4.28.2 – AUDIBLE ALARMS

A. If provided, audible alarms shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by at least 15 dba or exceeds any maximum sound level with a duration of 60 seconds by 5 dba, whichever is louder.

B. Sound levels for alarm signals shall not exceed 120 dba.

TAS SECTION 4.28.3 – VISUAL ALARMS

A. Visual alarm signal appliances shall be integrated into the building or facility alarm system. If single station audible alarms are provided then single station visual alarm signals shall be provided.

Visual Alarm appliances shall have the following features:

1. The lamp shall be a xenon strobe type or equilavent.

2. The color shall be clear or nominal white (i.e. unfiltered or clear filtered white light).

3. The maximum pulse duration shall be two-tenths of one second with a maximum duty cycle of 40%. (The pulse duration is defined as the time interval between initial and final points of 10% of max signal)

4. The intensity shall be a minimum of 75 candela.

5. The flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz

6. The appliance shall be placed 80" above the highest floor level within the space or 6" below the ceiling, whichever is lower.

7. In general, no place in any room or space shall be more than 50' from the signal (measured in a horizontal plane).

a. In large rooms and spaces exceeding 100' across, without obstructions 6' above the finished floor, such as auditoriums, devices may be place around the perimeter, spaced a maximum 100' apart, in lieu of suspending appliances from the ceiling.

8. No place in common corridors or hallways shall be more than 50' from the signal.

4.30 – SIGNAGE

TAS SECTIONS 4.1.2(7), 4.1.3(16)(a) – WHERE APPLICABLE

A. Signs which designate permanent rooms and spaces shall comply with the requirements listed below for:

1. Raised and Braille Characters, and Pictograms

2. Finish and Contrast

Exception: Employee name signs are not required to comply.

TAS SECTIONS 4.1.2(7), 4.1.3(16)(b) – WHERE APPLICABLE

A. Signs which provide direction to, or information about, functional spaces of the building shall comply with the requirements listed below for:

1. Character Proportion

2. Character Height

3. Finish and Contrast

Exception: Building directories, menus, and all other signs which are temporary are not required to comply.

TAS SECTION 4.1.2(7) – WHERE APPLICABLE (REFERANCE DETAIL 4.30.1)

A. Element and spaces of accessible facilities which shall be identified by the International Symbol of Accessibility are:

1. Parking spaces designated as reserved for persons with disabilities.

2. Accessible passenger loading zones.

3. Accessible entrances when not all are accessible (inaccessible entrances shall have directional signage to indicate route to nearest accessible entrance).

4. Accessible toilet and bathing facilities when not all are accessible.

TAS SECTION 4.30.2 – CHARACTER PROPORTION (REFERENCE DETAIL 4.30.2)

A. Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1, and a stroke-width-to-height ratio between 1:5 and 1:10.

TAS SECTION 4.30.3 – OVERHEAD SIGNS

A. Characters and numbers on overhead signs shall be sized according to the viewing distance from which they are to be read.

1. For signs higher than 80" above the finished floor, character size shall be 3" minimum.

2. The minimum height is measured using an upper case X.

3. Lower case letters are permitted.

TAS SECTION 4.30.4 – RAISED AND BRAILLE CHARCTERS AND PICTOGRAMS

A. Letter and numerals shall be raised 1/32", upper case, sans serif and shall be accompanied by grade 2 Braille.

1. Raised character height: 5/8" minimum, 2" high maximum

2. Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram.

3. The border dimension of the pictogram shall be 6" minimum

TAS SECTION 4.30.5 – FINISH AND CONTRAST

A. The character and background of the signs shall be eggshell, matte, or other non-glare finish. Characters and symbols shall contrast with their background (either light characters on a dark background or dark characters on a light background).

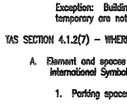
TAS SECTION 4.30.6 – MOUNTING LOCATION AND HEIGHT (REFERENCE DETAIL 4.30.3)

A. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door.

B. Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.

C. Mounting height shall be 60" above the finished floor to the centerline of the sign.

D. Mounting location for such signage shall be so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.



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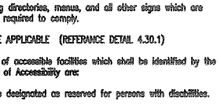

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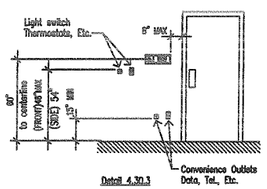


Detail 4.30.3

4.31 – PUBLIC TELEPHONES

TAS SECTION 4.1.3(17)(a) – WHERE APPLICABLE

A. If public pay telephones, public closed circuit telephones, or other public telephones if provided, then they shall comply with this section in the quantities below:

1. If one or more single unit of a type of public telephone is provided on a floor, then at least one of those phones shall comply with this section.

2. If one bank (defined as two or more adjacent public telephones, often installed as a unit) of a type of telephone is provided on a floor, then at least one of the telephones at the bank shall comply with this section.

3. If two or more banks of a type of public telephone are provided on a floor, then at least one telephone per bank shall comply with this section. The accessible unit may be installed as a single unit in proximity (either visible or with signage) to the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.

Additional public telephones may be installed at any height.

Unless otherwise specified, accessible telephones may be either forward or side reach telephones.

TAS SECTION 4.1.3(17)(b) – WHERE APPLICABLE

A. All telephones required to be accessible shall be equipped with a volume control.

B. In addition, 25%, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed all type of telephones, including closed circuit telephones, throughout the building or facility.

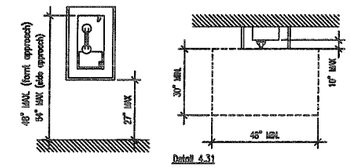
C. Signage displaying the International Symbol of Access for Hearing Loss shall be provided at each telephone equipped with a volume control.

TAS SECTION 51.3 – MOUNTING HEIGHT (REFERENCE DETAIL 4.31)

A. The highest operable part of the telephone shall be 48" maximum above the floor where a forward reach is required, and 54" maximum where a side reach is required.

B. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20"–25" deep the maximum height shall be 44"; If the obstruction is less than 20", maximum height shall be 48"

C. Maximum height shall be 48" for side reach over an obstruction 34" maximum high and 24" maximum deep.



Detail 4.31

4.32 – SEATING AND TABLES

TAS SECTION 4.32.2 – SEATING

A. If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space of 30" x 48" shall be provided. Floor space shall not overlap required knee space by more than 19"

TAS SECTION 4.32.3 – KNEE SPACE

B. If seating for people in wheelchairs is provided at fixed tables or counters, knee space at least 27" high, 30" wide and 19" deep shall be provided.

TAS SECTION 4.32.4 – HEIGHT OF TABLES OR COUNTER

C. The tops of accessible tables and counters shall be 28" minimum, and 34" maximum, above the finished floor.

4.34 – AUTOMATIC TELLER MACHINES

TAS SECTIONS 4.34.2 – CLEAR FLOOR SPACE

A. Floor space shall comply with 4.2.4 to allow a forward, parallel approach or both.

TAS SECTIONS 4.34.3 – REACH RANGES

A. Forward approach only: controls within forward approach specified in 4.2.5.

B. Parallel approach: controls within unobstructed reach range from clear floor space at protrusion of teller machine surround per table as follows:

Reach Depth	Maximum Height	Reach Depth	Maximum Height	Reach Depth	Maximum Height
in inches	in inches	in inches	in inches	in inches	in inches
10 or less	54	15	51	20	48 1/2
11	53 1/2	16	50 1/2	21	47 1/2
12	53	17	50	22	47
13	52 1/2	18	49 1/2	23	46 1/2
14	51 1/2	19	49	24	46

Note : above does not apply to drive up machines.

4.35 DRESSING AND FITTING ROOMS

TAS SECTIONS 4.35.2

A. Clear floor area with a 60" dia. wheelchair turnaround is required. The turnaround area must be clear of door swings.

TAS SECTIONS 4.35.4 – BENCH

A. Every accessible dressing room shall have a 24"x 48" bench fixed to the wall along the larger dimension. The bench shall be mounted 17" to 19" above the finish floor.

TAS SECTIONS 4.35.5 – MIRROR

A. A full-length mirror, measuring at least 18" wide by 54" high, shall be mounted in a position affording a view to a person on the bench as well as to a person in a standing position.

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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ACCESSIBILITY GUIDELINES (TAS)

SHEET: 0.2

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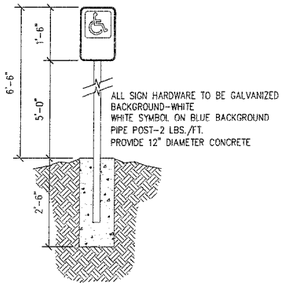
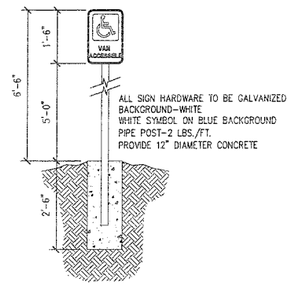


2 SIGNAGE DETAIL
SCALE: 1/2" = 1'-0"



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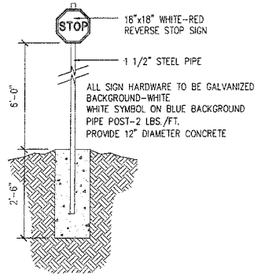

4 SIGNAGE DETAIL
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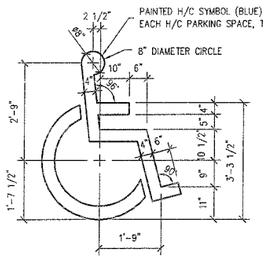
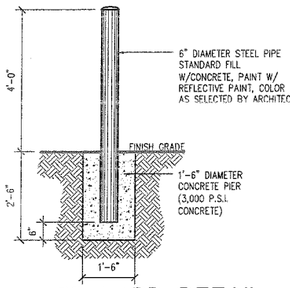
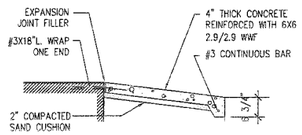


5 HANDICAP SIGN
SCALE: 1/2" = 1'-0"



6 BOLLARD DETAIL
SCALE: 1/2" = 1'-0"



7 RAMP SECTION
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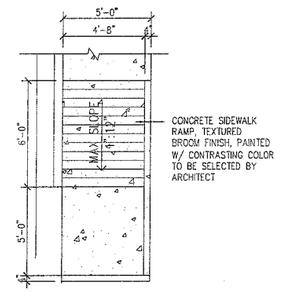
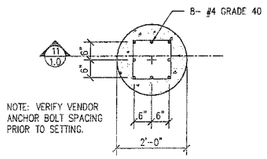
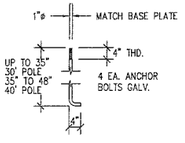


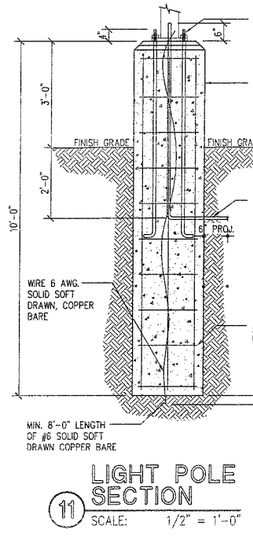
RE:
8 WHEELCHAIR RAMP
SCALE: 1/4"=1'-0"



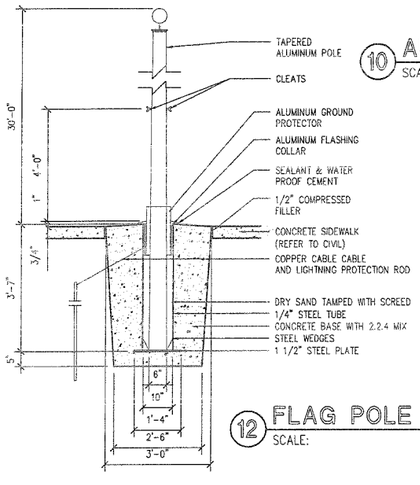
9 LIGHT POLE PLAN DETAIL
SCALE: 1/2" = 1'-0"



10 ANCHOR BOLT
SCALE: 1/2" = 1'-0"



11 LIGHT POLE SECTION
SCALE: 1/2" = 1'-0"



12 FLAG POLE SECTION
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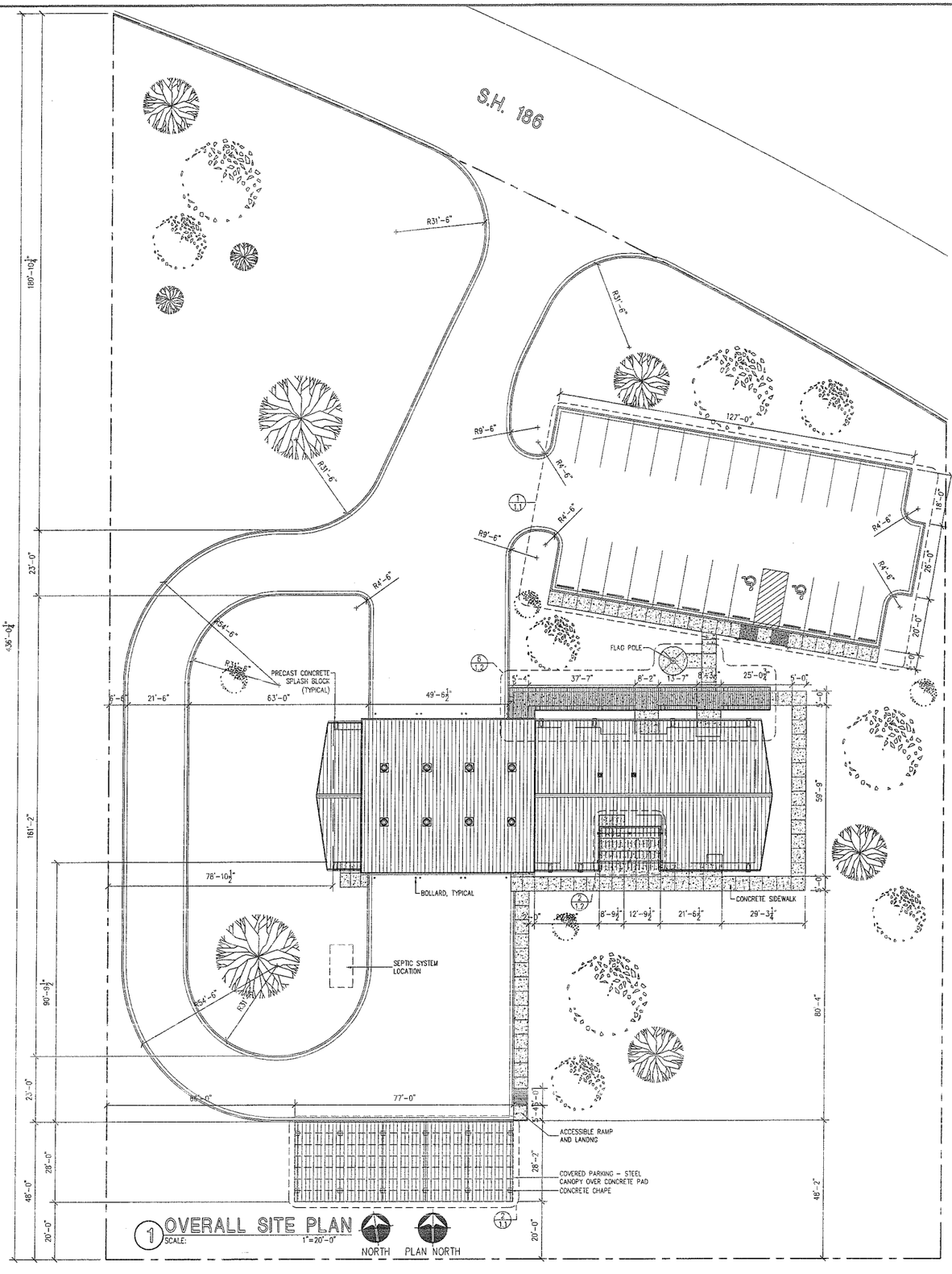

1 OVERALL SITE PLAN
SCALE: 1"=20'-0"

NORTH PLAN NORTH

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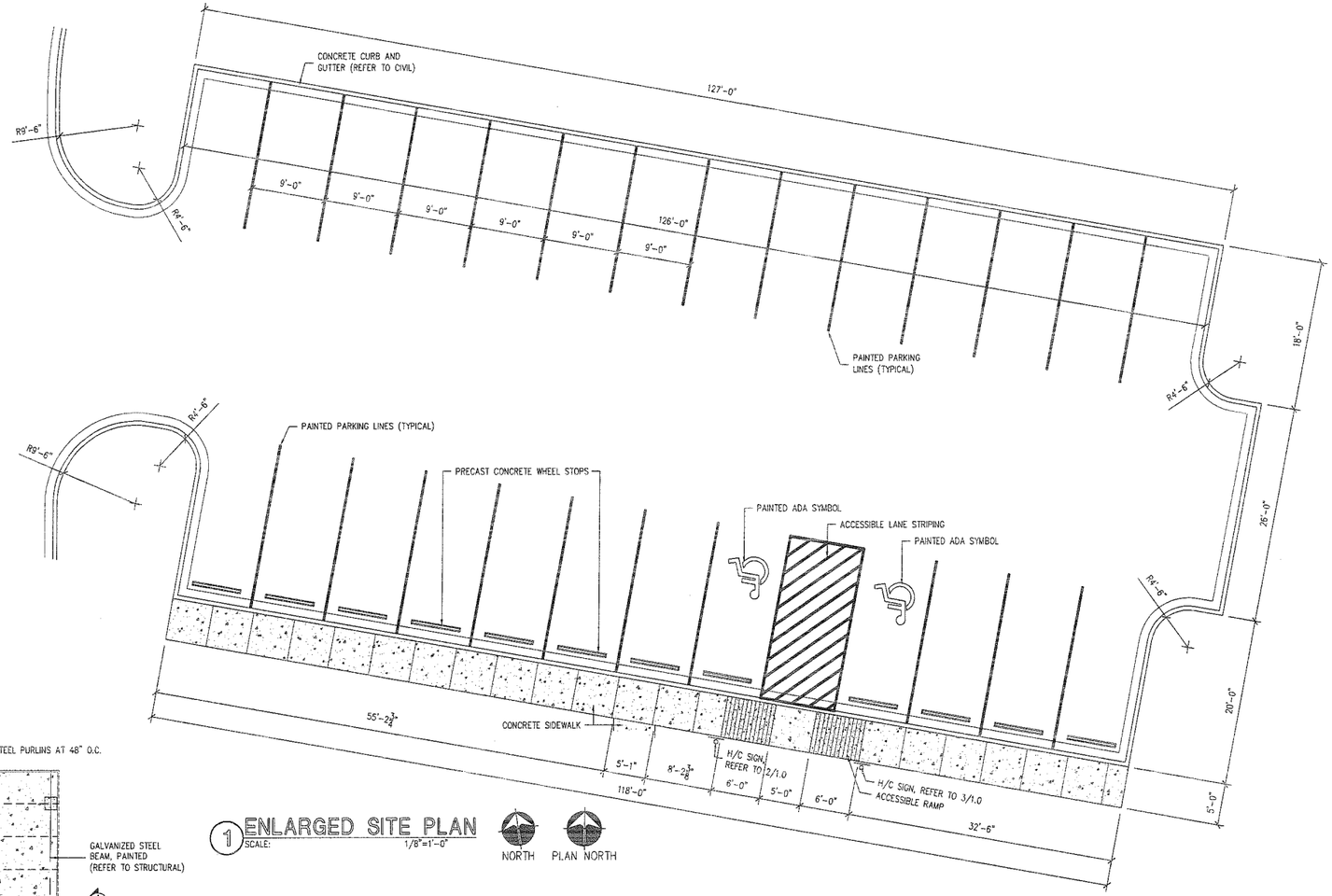
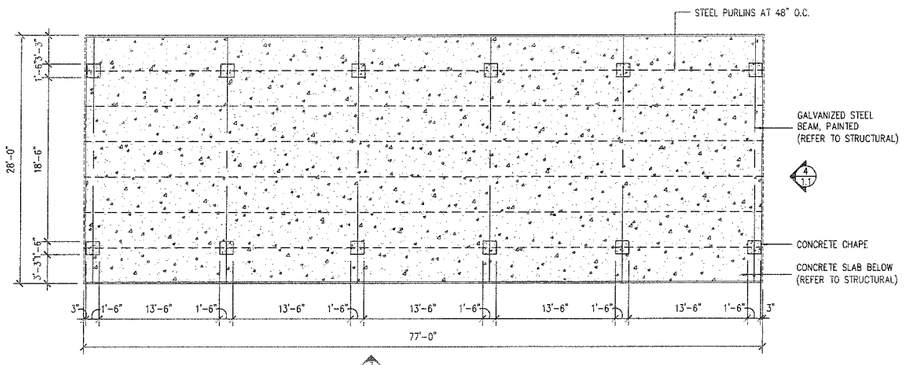


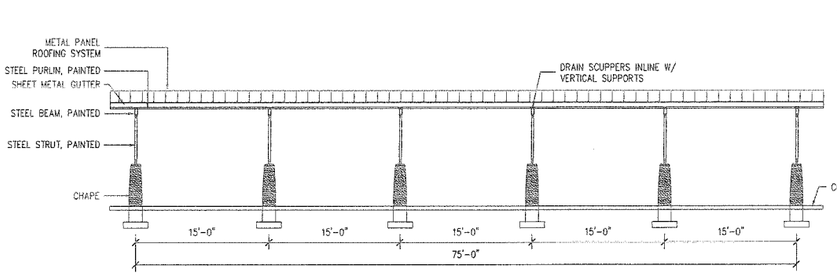
1 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"

NORTH PLAN NORTH

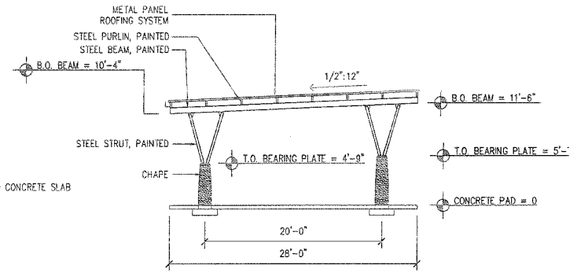


2 PARKING CANOPY PLAN
SCALE: 1/8"=1'-0"

NORTH PLAN NORTH



3 PARKING CANOPY ELEVATION
SCALE: 1/8"=1'-0"



4 PARKING CANOPY ELEVATION
SCALE: 1/8"=1'-0"

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REGISTERED ARCHITECT HECTOR RENE GARCIA

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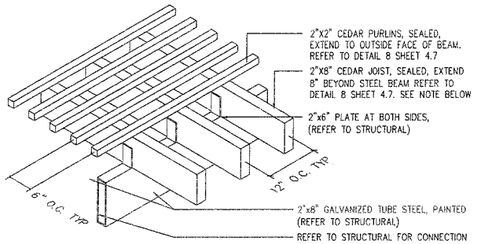
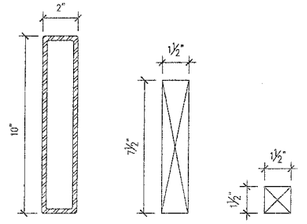
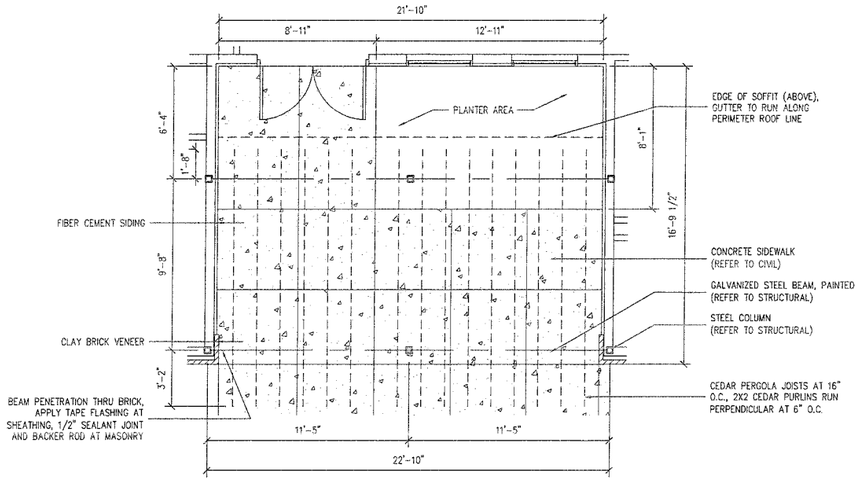


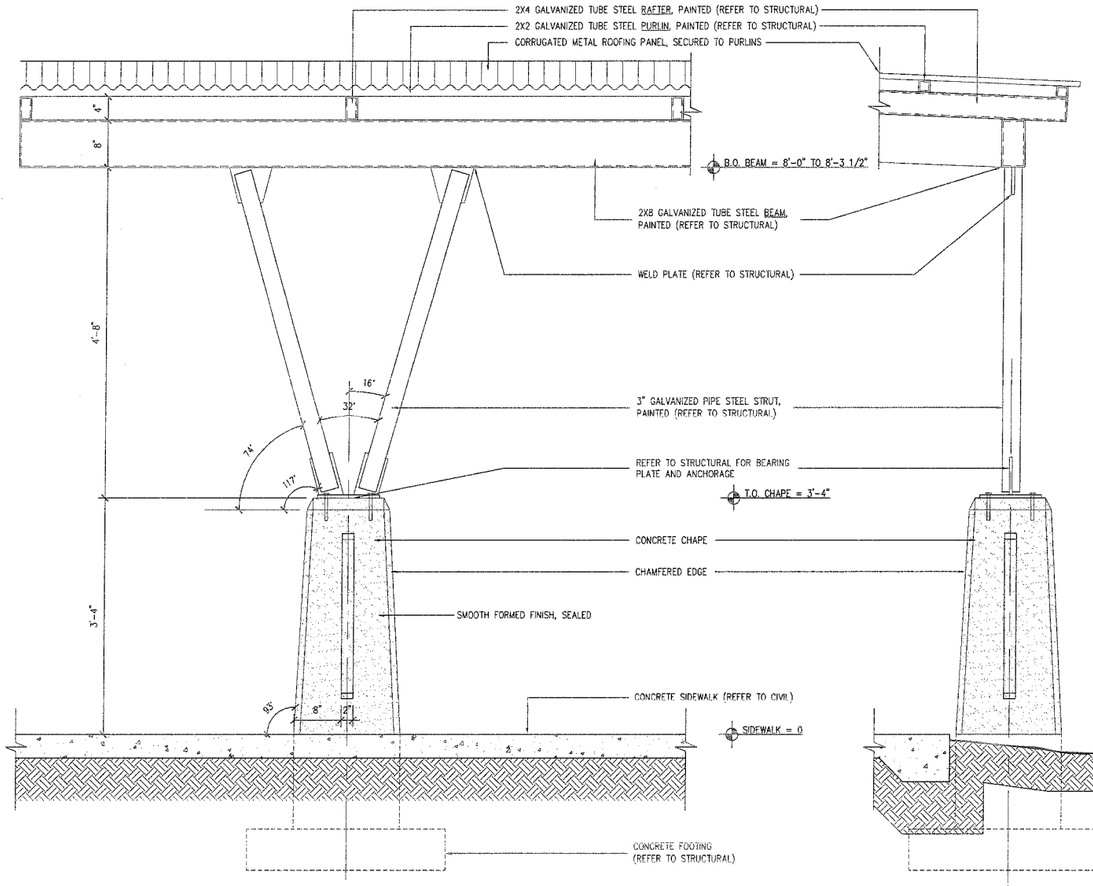
NOTE: OFFSET FIRST CEDAR JOIST 10" O.C. FROM CENTER LINE OF STEEL TUBE.

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





2 PURGOLA PLAN DETAIL
SCALE: 1/4"=1'-0"



3 WALKWAY CANOPY ELEVATION DETAIL
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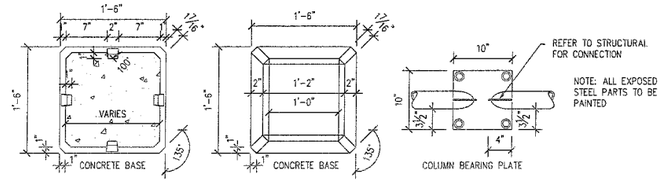
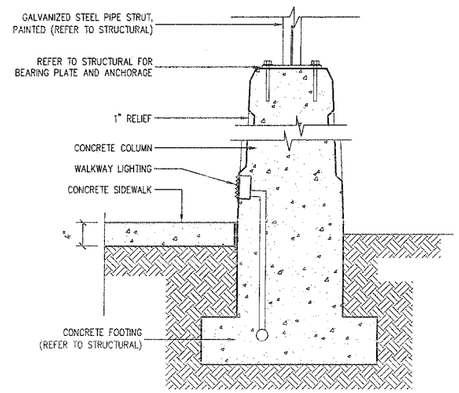


4 CHAPE PLAN DETAIL
SCALE: 1"=1'-0"



5 CHAPE SECTION DETAIL
SCALE: 1"=1'-0"

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/2014

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SHEET: 1.2

GENERAL NOTES

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.

6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.

7. DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.

9. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.

10. CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
    A) A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
    B) THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

1. THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.

2. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
    A. STEEL REINFORCEMENT IN SLAB OR FOUNDATION
    B. CMU WALL REINFORCING BEFORE POURING
    C. FRAMING OF ROOF STRUCTURE

3. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:

2. CODE: ..... IBC 2012
3. VERTICAL LOADS
    A. DEAD LOAD: (METAL ROOF & STEEL FRAME)..... 25 PSF
    B. DEAD LOAD: (METAL ROOF & WOOD FRAMING)..... 20 PSF
    C. LIVE LOAD ROOF (REDUCIBLE): ..... 20 PSF
    D. UPLIFT LOAD ..... SEE ROOF UPLIFT PLAN
    E. MECHANICAL LOAD:
        THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.

4. LATERAL LOADS
    A. WIND SPEED (VULT): ..... 141 MPH
    B. WIND SPEED (VASD): ..... 110 MPH
    C. EXPOSURE CATEGORY: C
    D. IMPORTANCE FACTOR: 1.00
    E. BUILDING CATEGORY: IV
    F. SEISMIC DESIGN CATEGORY: ..... A
    G. SITE CLASS: ..... E

5. GEOTECHNICAL ENGINEERING REPORT:
    PROVIDED BY: L&G ENGINEERING LABORATORY, LLC
    PROJECT NUMBER: GL13032
    DATED: 1/7/14
    FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS
    A. EFFECTIVE PI: 15
    B. CLIMATIC RATING (Cw): 15
    C. MINIMUM BEAM DEPTH: ..... 24 IN
    D. MINIMUM BEAM WIDTH: ..... 12 IN
    E. GRADE BEAM ALLOWABLE BEARING CAPACITY): ..... 2500 PSF
    F. SPREAD FOOTING ALLOWABLE BEARING CAPACITY : ..... 3000 PSF
    G. EXISTING PVR: ..... 0.6 IN

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
    A. CONCRETE MIX DESIGN
    B. CURING COMPOUND FOR CONCRETE
    C. REINFORCING STEEL INCLUDING CMU WALL REINFORCING
    D. STRUCTURAL STEEL
    E. STEEL JOIST
    F. STEEL METAL DECK
    G. PRE-MANUFACTURED WOOD TRUSSES INCLUDING REACTIONS
    H. CMU WALL COMPONENTS

2. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.

3. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.

4. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

CONCRETE

1. ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.

2. CEMENT SHALL CONFORM TO ASTM CI50 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.

3. CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION AND SLAB	3000 PSI	4" -6"	1.5 IN.
PIERS	3000 PSI	4" -6"	1.5 IN.
TILT-UP WALLS	4000 PSI	4" -6"	1.5 IN.
COLUMNS	4000 PSI	4" -6"	1.5 IN.
C.I.P. BEAMS AND LINTELS	4000 PSI	4" -6"	1.5 IN.

4. INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.

5. PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.

6. ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.

7. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.

8. CURE CONCRETE IN ACCORDANCE WITH ACI 308.1

9. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.

10. CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.

11. FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.

12. ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF=35 AND A MINIMUM LEVELNESS OF FL=25

13. CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.

14. TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
    1) SETS SHALL CONSIST OF 3 CYLINDERS
        ONE TESTED AT 7 DAYS
        TWO TESTED AT 28 DAYS
    2) ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
    3) A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE

15. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.

16. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF AC1 302.1 AND 304.

17. UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F'c), BEFORE FORMS MAY BE REMOVED.

    WALL, COLUMNS, & BEAM SIDES.....40%
    JOIST PANS & BEAM BOTTOMS (IF RESHORED).....70%
    SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....85%

18. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.

19. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.

20. ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE, RE: CIVIL PLAN.

STEEL REINFORCING

1. ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.

2. REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.

3. BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
    A. HORIZONTAL BARS w/ MORE THAN 12" OF CONCRETE COVER
        #6 BARS AND SMALLER - 57 BAR DIAMETERS
        #7 BARS AND BIGGER - 72 BAR DIAMETERS
    B. OTHER BARS
        #6 BARS AND SMALLER - 44 BAR DIAMETERS
        #7 BARS AND BIGGER - 55 BAR DIAMETERS

4. CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.

5. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.

6. SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.

7. WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.

8. MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:
    A. FOOTING AND CONCRETE CAST AGAINST EARTH - 3 INCHES
    B. EXPOSED TO EARTH OR WEATHER
        #6 BARS AND BIGGER - 2 INCHES
        #5 BARS AND SMALLER - 1.5 INCHES
    C. BEAMS AND COLUMNS - 1.5 INCHES
    D. SLABS AND WALLS - 1 INCH

9. REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.

10. ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.
    #4 BARS - 100 FT.
    #5 BARS - 100 FT.
    #6 BARS - 100 FT.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.

2. MATERIALS USED SHALL BE AS FOLLOWS=
    A. STRUCTURAL W-SHAPES - ASTM A992 GRADE 50
    B. STRUCTURAL M-SHAPES AND S-SHAPES - ASTM A36
    C. STRUCTURAL T-SHAPES - CUT FROM W-SHAPES
    D. CHANNELS AND ANGLES - ASTM A36
    E. ROUND HOLLOW STRUCTURAL SECTIONS - ASTM A500 GRADE B
    F. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS - ASTM A500 GRADE B
    G. STRUCTURAL PLATES - ASTM A36
    H. STRUCTURAL BARS - ASTM A36
    I. HIGH STRENGTH BOLTS - ASTM A325
    J. ELECTRODES - SERIES E70

3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.

4. CONNECTIONS NOT DETAILED AND OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.

5. REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.

6. HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER.

7. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.

8. STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.

9. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.

10. PROVIDE 1 TON OF RED IRON ALLOWANCE TO BE USED AS DIRECTED BY STRUCTURAL ENGINEER. INCLUDE LABOR COSTS IN THE ALLOWANCE. ANY UNUSED ALLOWANCE SHALL BE CREDITED BACK TO OWNER AT A COST OF $3500 PER TON.

11. ALL WELDED CONNECTIONS SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.

12. PROVIDE 1/2" GAP AT ANY PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.

13. STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

WOOD FRAMING NOTES

1. ALL FRAMING LUMBER SHALL BE #2 SOUTHERN PINE OR BETTER.

2. PROVIDE SOLID BLOCKING BETWEEN ROOF RAFTERS, CEILING JOISTS AND FLOOR JOISTS AT BEARING LOCATIONS AND AT MID SPAN OF SPANS GREATER THAN 8'-0" OR AS NOTED. SIZE SHALL MATCH FRAMING MEMBER.

3. LAP FRAMING MEMBERS WHICH BEAR ON 2x4 STUDS OR PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.

4. ALL EXTERIOR STUD WALLS SHALL BE 2x6 AT 16" O.C. AND INTERIOR LOAD BEARING STUD WALLS TO BE 2x4 AT 16" O.C. PROVIDE WIND BRACING AS SHOWN ON PLANS. REFER TO ARCHITECTURAL PLANS FOR NON-LOAD BEARING STUD WALLS.

5. ALL STUD WALLS TO BE CONNECTED TO FOUNDATION WITH 5/8" DIAMETER x 0'-6" "J" BOLTS SPACED AT 3'-2" O.C. MAXIMUM. PROVIDE TWO AT EACH CORNER.

6. ALL EXTERIOR STUD WALLS TO HAVE HORIZONTAL BLOCKING AT 4'-0" O.C. VERTICALLY OF SIZE EQUAL TO STUDS AT PANEL JOINTS.

7. ALL HEADERS TO (2) 2x8 MINIMUM UNLESS NOTED OTHERWISE OR ON SCHEDULE OR PLANS.

8. PROVIDE 4'x8'x5/8" STRUCTURAL I PLYWOOD SHEET AT EACH CORNER OF BUILDING, U.N.O. ON PLANS.

9. SILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WOOD.

10. MINIMUM NAILING OF WOOD SHALL BE PER TABLE 2304.9.1 OF IBC 2006 UNLESS NOTED OTHERWISE ON DRAWINGS.

11. EACH ANCHOR BOLT SHALL HAVE A WASHER WITH A MINIMUM 1-3/8 INCH DIAMETER AND MINIMUM 1/8 INCH THICKNESS.

WOOD SHEATHING

1. SHEATHING FOR ROOF TO BE TYPE CDX EXT., STRUCTURAL I-APA RATED, 5/8" THICK, (32/16).

2. PLACE ROOF SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 6" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

3. SHEATHING FOR EXTERIOR WALLS SHALL BE STRUCTURAL I-APA RATED, 1/2" THICK, (32/16).

4. PLACE WALL SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 6" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

WOOD TRUSSES

1. DESIGN ACCORDING TO LOADS SHOWN ON DESIGN CRITERIA.

2. TRUSSES SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A TEXAS LICENSED PROFESSIONAL ENGINEER.

3. SHOP DRAWINGS SHALL INDICATE SIZES AND SPACING OF TRUSSES AND ASSOCIATED COMPONENTS, WEB AND CHORD SIZES, PLATE SIZES, FASTENER DESCRIPTIONS AND SPACINGS, LOADS AND TRUSS CAMBERS, FRAMED OPENINGS, AND END REACTIONS.

4. SHOP DRAWINGS SHALL INCLUDE DESIGN CALCULATIONS SIGNED AND SEALED BY A TEXAS LICENSED PROFESSIONAL ENGINEER.

5. FABRICATE BOTTOM AND TOP CHORD EXTENSIONS AS REQUIRED.

6. SEE MEP DRAWINGS TO COORDINATE ANY OPENINGS REQUIRED IN WEB OF TRUSSES.

7. DO NOT FIELD CUT OR ALTER TRUSS MEMBERS WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

MASONRY

1. MATERIALS:
    A. CONCRETE BLOCK: MEDIUM WEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) MINIMUM COMPRESSIVE STRENGTH: 1900 PSI
    B. MORTAR: ASTM C270 TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1800 PSI
    C. GROUT: MINIMUM COMPRESSIVE STRENGTH: 3000 PSI
    D. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (DUR-O-WALL).
    E. BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
    F. TYPICAL CMU WALL REINFORCING SHALL BE #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C. U.N.O. ON DRAWINGS.

2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
    A. PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48 BAR DIAMETERS MINIMUM WITH WALL BAR.
    B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" x 3" IN SIZE, FREE OF MORTAR DROPPINGS.
    C. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
    D. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP.
    E. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
    F. MAXIMUM HEIGHT OF GROUT LIFT = 4'-0'. UNLESS HIGH LIFT GROUTING PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99

3. MISCELLANEOUS:
    A. FILL CORE SOLID AROUND ANCHOR BOLTS.
    B. PROVIDE SOLIDLY FILLED HOLLOW BLOCKS AT ALL EMBED ANCHOR LOCATIONS.
    C. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
    D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTING, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
    E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
    F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
    G. VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL HEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED.
    H. FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.
    I. ALL CMU WALLS MUST HAVE SPECIAL INSPECTION PER IBC CODE 2006 TABLE 1704.5.1 AND SECTION 1704.5.3 "MASONRY CONSTRUCTION" ON CHAPTER 17-"STRUCTURAL TEST & SPECIAL INSPECTION". THE CONTRACTOR MUST PROVIDE REPORTS OF THESE "SPECIAL INSPECTIONS".
    J. BARS SCHEDULED "CONTINUOUS" SHALL BE SPLICED AS FOLLOWS:

REINFORCING BAR SIZE	MIN. LAP SPLICE LENGTH
#5	30"
#6	36"
#7	42"
#8	48"
#9	54"
#10	MECHANICAL CONNECTOR
#11	

4. STABILITY AND BRACING:
    ALL MASONRY WALLS SHOWN ON THE CONTRACT DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THEIR FINAL CONSTRUCTED POSITION ONLY ASSUMING FULL BRACING AT TOP, BOTTOM, AND/ OR SIDES AS INDICATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT CONSTRUCTION RESIST ANY ERECTION VERTICAL OR LATERAL LOADS THAT COULD BE IMPOSED ON THE WALLS PRIOR TO CONSTRUCTION COMPLETION.

5. GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH STRUCTURAL ENGINEER AND MASONRY CONTRACTOR BEFORE MASONRY WORK COMMENCES.

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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STATE OF TEXAS — MIGUEL CHANIN — 93127 — LICENSED PROFESSIONAL ENGINEER — 2-25-14

PROJECT #: 13234
DATE: 02.25.14
DRAWN BY: L.R.
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

LINN - SAN MANUEL EMERGENCY SERVICE FACILITY PRECINCT NO. 4
PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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SHEET: S1.0

GENERAL NOTES

STEEL JOISTS

1. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DETAILED, FABRICATED AND ERECTED PER AISC AND SJI SPECIFICATIONS FOR OPEN-WEB STEEL JOISTS.
2. STEEL JOISTS SHALL BE WELDED TO SUPPORTING MEMBERS UNLESS NOTED OTHERWISE.
3. JOIST BEARING SHALL BE A MINIMUM OF 2 1/2 INCHES WITH A MINIMUM 2 INCH LONG FILLET WELD EACH SIDE OF BEARING.
4. JOISTS AT COLUMN LOCATIONS OR CLOSEST JOIST TO COLUMN SHALL BE BOLTED.
5. PROVIDE BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS. BRIDGING SHALL BE CONTINUOUS THROUGH STRUCTURAL STEEL MEMBERS, AND SHALL BE ANCHORED TO SPANDREL MEMBERS OR WALLS. PROVIDE ADDITIONAL BRIDGING WHERE REQUIRED FOR UPLIFT.
6. BOTTOM CHORD EXTENSIONS TO BE PROVIDED AS REQUIRED BY ARCHITECTURAL PLANS.
7. JOISTS SUPPORTING MECHANICAL UNITS TO BE DESIGNED FOR UNIT WEIGHT IN ADDITION TO GRAVITY LOADS SHOWN IN DESIGN CRITERIA.
8. REFER TO MECHANICAL ENGINEERING PLANS FOR EXACT UNIT WEIGHT AND LOCATIONS.
9. MECHANICAL EQUIPMENT SHALL BE SUPPORTED BY TOP CHORD OF JOIST ONLY.
10. PROVIDE SUPPORT ANGLES AROUND ANY OPENINGS IN ROOF DECK.
11. JOISTS AND ACCESSORIES SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.
12. JOISTS TO BE DESIGNED PER LOADS SHOWN IN DESIGN CRITERIA.
13. DESIGN JOISTS FOR A 500 LB CONCENTRATED LOAD AT MIDSPAN TO ACT CONCURRENTLY WITH OTHER LOADS IN DESIGN CRITERIA.
14. JOIST MANUFACTURER SHALL DESIGN BOTTOM CHORDS OF ALL OPEN WEB JOISTS AND JOIST GIRDERS TO SUPPORT A 50 lb LOAD LOCATED ANYWHERE ALONG THE LENGTH OF THE CHORD.
15. HANGERS FOR MECHANICAL EQUIPMENT WITH REACTIONS IN EXCESS OF 50 lbs MUST BE LOCATED AT THE PANEL POINTS OF THE JOISTS. PROVIDE JOIST REINFORCING IN ACCORDANCE WITH THE TYPICAL DETAILS WHERE HANGERS ARE REQUIRED TO BE LOCATED MORE THAN 4 INCHES FROM THE JOIST PANEL POINTS.
16. PROVIDE FLAT BEARING FOR ALL JOISTS AND JOIST GIRDERS. BEAR JOISTS AND JOIST GIRDERS ON SUPPORTS IN ACCORDANCE WITH SJI SPECIFICATIONS.
17. PROVIDE 1/2" GAP AT ANY PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.
18. STEEL JOISTS TO BE DESIGNED BY TEXAS REGISTERED PROFESSIONAL ENGINEER.
19. STEEL JOIST SHOP DRAWINGS SHALL BE SEALED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER.

METAL ROOF DECK

1. SHEET STEEL: ASTM A653 GRADE 33 STRUCTURAL QUALITY WITH G90 GALVANIZED COATING CONFORMING TO ASTM A525
2. DECK PROFILE - B
   PROFILE DEPTH - 1.5 IN.
   GAGE - 22
3. METAL DECK ATTACHMENT SHALL BE:
   AT SUPPORTS: #12 TEK SCREWS AT A 36/4 PATTERN
   AT SIDELAPS: #10 TEK SCREWS, 4 PER SPAN
4. WELDING OF METAL DECKING SHALL NOT BE ALLOWED
5. ALL METAL DECK PANELS SHALL SPAN ACROSS A MINIMUM OF FOUR JOISTS OR BEAMS
6. DECK ENDS SHALL BE LAPPED OVER SUPPORTS

STRUCTURAL TESTS AND SPECIAL INSPECTION

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.
2. THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION,
   A. APPROVED AGENCY- AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
   B. APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
   C. SPECIAL INSPECTION, CONTINUOUS- THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
   D. SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	X	——	——
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	——	X	AISC 360, SECTION M2.5	1704.3.3
b. SLIP-CRITICAL CONNECTIONS.	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	ASTM A 6 OR ASTM A 568	1708.4
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	——	——	ASTM A 6 OR ASTM A568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	AISC 360, SECTION A3.5	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	——	——	——
5. INSPECTION OF WELDING:	——	——		
a. STRUCTURAL STEEL:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	——	AWS D1.1	1704.3.1
2) MULTIPASS FILLET WELDS.	X	——		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	——		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	——	X		
5) FLOOR AND ROOF DECK WELDS.	——	X	AWS D1.3	——
b. REINFORCING STEEL:	——	——	AWS D1.4 ACI 318: 3.5.2	——
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	——	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	——		
3) SHEAR REINFORCEMENT.	X	——		
4) OTHER REINFORCING STEEL.	——	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—— —— ——	X —— ——	——	1704.3.2

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[b]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	——	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.	——	——	AWS D1.4 ACI 318: 3.5.2	——
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	——	——	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	——	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	——	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	——	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	——	X	ACI 318: 5.11-5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	——	ACI 318: 18.20 ACI 318: 18.18.4	——
9. ERECTION OF PRECAST CONCRETE MEMBERS.	——	X	ACI 318: Ch.16	——
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	——	X	ACI 318: 6.2	——
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	——	X	ACI 318: 6.1.1	——

TABLE 1704.5.1
LEVEL 1 SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ ASCE 5/ TMS 402[a]	ACI 530.1/ ASCE 6/ TMS 602[a]
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	——	X	——	——	Art. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.	——	X	——	——	Art. 3.3B
c. LOCATION OF REINFORCEMENT , CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	——	X	——	——	Art. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE.	——	X	——	——	Art. 3.6B
e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	——	X	——	——	Art. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	——	X	——	——	Art. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	——	X	——	Sec. 1.2.2(e), 2.1.4, 3.1.6	——
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	——	X	——	Sec. 1.13	Art. 2.4, 3.4
d. WELDING OF REINFORCING BARS.	X	——	——	Sec. 2.1.10.7.2, 3.3.3.4(b)	——
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	——	X	Sec. 2104.3, 2104.4	——	Art. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	——	X	——	——	Art. 3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.	——	X	——	——	Art. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	——	X	——	Sec. 1.13	Art. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	——	X	——	——	Art. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.	——	X	——	——	Art. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	——	——	——	Art. 3.5
a. GROUTING OF PRESTRESSING BONDED TENDONS.	X	——	——	——	Art. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	——	Sec. 2105.2.2, 2105.3	——	Art. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	——	X	——	——	Art. 1.5

TABLE 1704.7
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	——	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	——	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	——	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	——
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	——	X

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STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED PROFESSIONAL ENGINEER
2-25-14

PROJECT #: 13234
DATE: 02.25.14
DRAWN BY: L.R.
CHECKED BY: M.C.
REVISION:
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2:
3:
4:

LINN - SAN MANUEL EMERGENCY SERVICE FACILITY PRECINCT NO. 4
PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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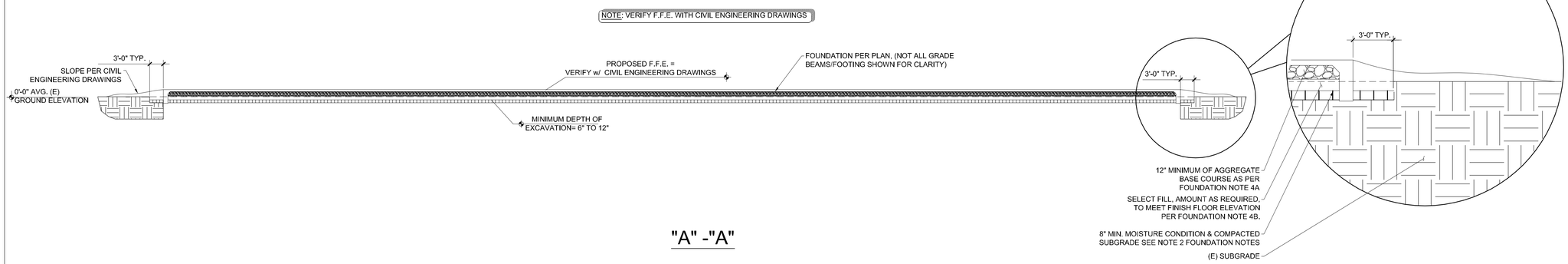

"A" -"A"

PROFILE
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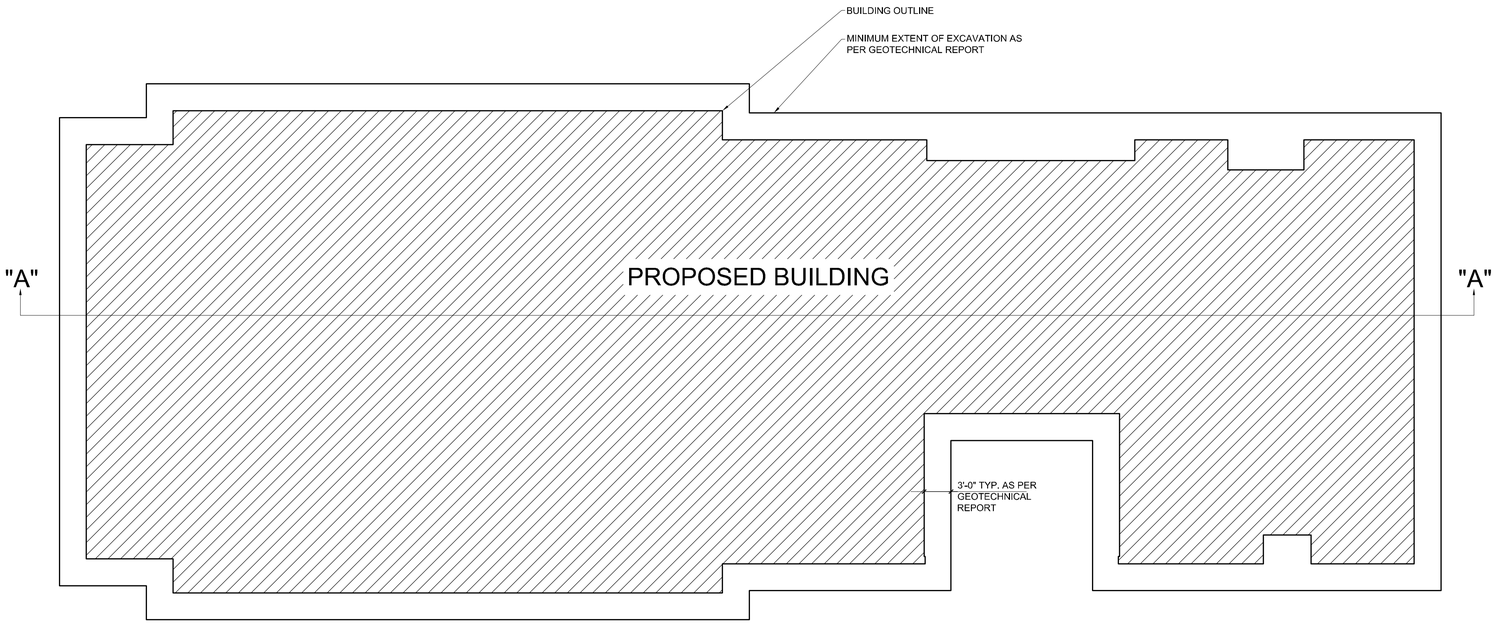

FOUNDATION NOTES

1. CONSTRUCTION AREAS REMOVE AT LEAST 6 TO 12 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 3'-0" OUTSIDE THE BUILDING LINE PROPOSED.

2. EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOF ROLLED WITH A 20 TON PNEUMATIC ROLLER OR A FULLY LOADED DUMP TRUCK IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. WEAK OR SOFT AREAS IDENTIFIED DURING PROOF ROLLING SHOULD BE REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL IN ACCORDANCE WITH THE REQUIREMENTS BELOW. PRIOR TO FILL PLACEMENT, THE EXPOSED SUBGRADE SHOULD BE MOISTURE CONDITIONED BY SCARIFYING TO A MINIMUM DEPTH OF 8" AND RECOMPACTING TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED FROM THE ASTM D698 COMPACTION TEST. THE MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN -2 TO +2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.

3. FILL BACK TO REQUIRED GRADE (A MINIMUM OF 12" OF SELECT FILL IS REQUIRED. REFER TO CIVIL PLANS FOR FINISHED FLOOR ELEVATION TO DETERMINE ADDITIONAL AMOUNT OF SELECT FILL NEEDED) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.

4. SELECT FILL, WHEN PROPERLY SLAKED AND TESTED BY STANDARD LABORATORY METHODS, SHALL MEET THE FOLLOWING REQUIREMENTS:

   A. AGGREGATE BASE COURSE- TOP TWELVE (12) INCHES OF BUILDING PAD SHALL CONSIST OF SOILS CLASSIFIED AS SC OR GC, BY THE USCS OR CALICHE OR CRUSHED LIMESTONE. THE CLAYEY GRAVEL AND CALICHE MATERIALS SHOULD MEET THE GRADATION REQUIREMENTS OF ITEM 247, TYPE E, GRADE 4 AS SPECIFIED IN THE 2004 TxDOT STANDARD SPECIFICATIONS MANUAL AND HAVE A PLASTICITY INDEX BETWEEN 8 AND 20. CRUSHED LIMESTONE OR CRUSHED CONCRETE MATERIAL SHOULD MEET THE REQUIREMENTS OF 2004 TxDOT ITEM 247, TYPE A , GRADE 1. THE SELECT FILL MATERIALS SHOULD BE FREE OF ORGANIC MATERIAL AND DEBRIS, AND SHOULD NOT CONTAIN STONES LARGER THAN 2 INCHES IN THE MAXIMUM DIMENSION.

   B. THE FOLLOWING SOILS, AS CLASSIFIED ACCORDING TO THE USCS, MAY BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL MATERIALS AT THIS SITE: CL, SC, AND COMBINATIONS OF THESE SOILS. IN ADDITION TO THE USCS CLASSIFICATION, SELECT FILL MATERIALS SHALL HAVE A MAXIMUM LIQUID LIMIT OF 40 PERCENT, A PLASTICITY INDEX BETWEEN 8 AND 20 PERCENT, AND A MAXIMUM PARTICLE SIZE NOT EXCEEDING 2 INCHES OR ONE-HALF THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER.

5. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.

6. AGGREGATE BASE STRUCTURAL FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LOOSE LIFTS NOT TO EXCEED 8" TO 98% OF THE MAXIMUM DENSITY, AT MOISTURE CONTENTS RANGING BETWEEN -2 TO +2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.

7. SELECT FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LOOSE LIFTS NOT TO EXCEED 8" TO 95% OF THE MAXIMUM DENSITY, AT OR 3% ABOVE OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE TEST METHOD ASTM D-698.

8. SITE PREPARATION TESTING SHALL BE AS FOLLOWS:
   A. ATTERBERG LIMITS OF SELECT FILL MATERIAL:
      (1) ONE TEST PER 5,000 CY
   B. COMPACTION TEST:
      TO BE PERFORMED PER LIFT ON TEST PER 3,000 SF MINIMUM
      OF (4) FOUR TEST PER LIFT

9. GEOTECHNICAL REPORT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR TO REVIEW AND COMPLY WITH ALL EARTHWORK AND GRADING REQUIREMENT IN GEOTECHNICAL REPORT.

10. FINAL SITE GRADING TO SLOPE AWAY FROM THE STRUCTURE AND SHALL PREVENT WATER FROM PONDING IN THE AREAS ADJACENT TO THE STRUCTURE FOR A MINIMUM DISTANCE OF 10'-0". ANY PONDING CLOSE TO THE STRUCTURE MAY CREATE VOLUMETRIC CHANGES IN THE SOIL AND MAY LEAD TO LESS THAN OPTIMUM PERFORMANCE OF THE BUILDING FOUNDATION.

11. IT IS ALSO IMPORTANT TO MINIMIZE CHANGES IN MOISTURE CONTENT CREATED BY ROOF DRAINAGE, PLUMBING LEAKS, LANDSCAPING / IRRIGATION, AND DOWNSPOUT OUTFALLS. ANY PLUMBING LEAKS SHALL BE REPAIRED AS SOON AS POSSIBLE AND PROPER DRAINAGE PROVIDED AWAY FROM THE BUILDING. LARGE BUSHES AND TREES SHALL NOT BE PLACED IN AREAS DIRECTLY ADJACENT TO THE FOUNDATION AS THEIR ROOT SYSTEM MAY CREATE SUBSTANTIAL MOISTURE DIFFERENTIALS THAT MAY LEAD TO VOLUME CHANGES IN THE SOIL. LARGE BUSHES AND TREES SHOULD BE LOCATED AT A REASONABLE DISTANCE FROM THE FOUNDATION.

EXCAVATION PLAN
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LINN - SAN MANUEL EMERGENCY SERVICE FACILITY PRECINCT NO. 4

PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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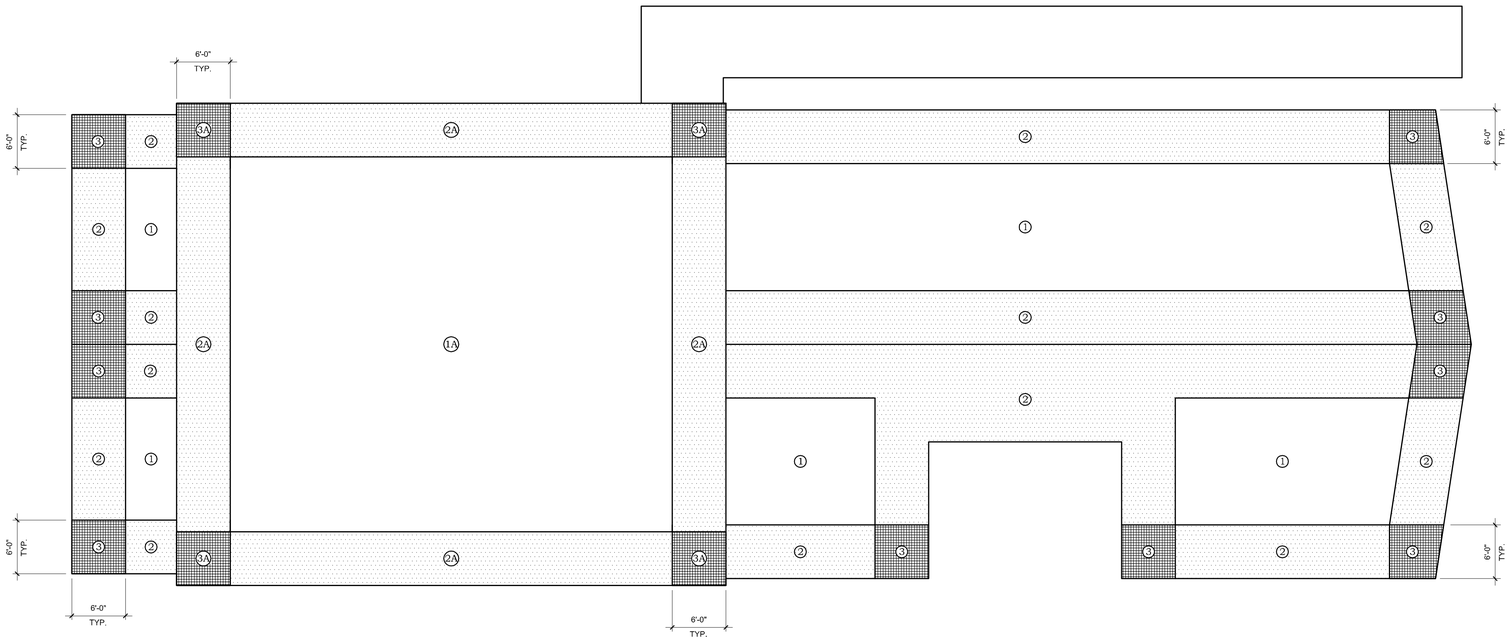

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	1	24.1 psf	22.1 psf
20	1	23.5 psf	21.5 psf
50	1	22.5 psf	20.5 psf
10	2	42.0 psf	40.0 psf
20	2	38.6 psf	36.6 psf
50	2	34.1 psf	32.1 psf
10	3	62.1 psf	60.1 psf
20	3	58.0 psf	56.0 psf
50	3	52.6 psf	50.6 psf

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	1A	28.6 psf	22.6 psf
20	1A	27.9 psf	21.9 psf
50	1A	26.9 psf	20.9 psf
10	2A	48.0 psf	42.0 psf
20	2A	42.9 psf	36.9 psf
50	2A	36.0 psf	30.0 psf
10	3A	72.1 psf	66.1psf
20	3A	59.8 psf	53.8 psf
50	3A	43.3 psf	37.3 psf

ROOF UPLIFT PLAN
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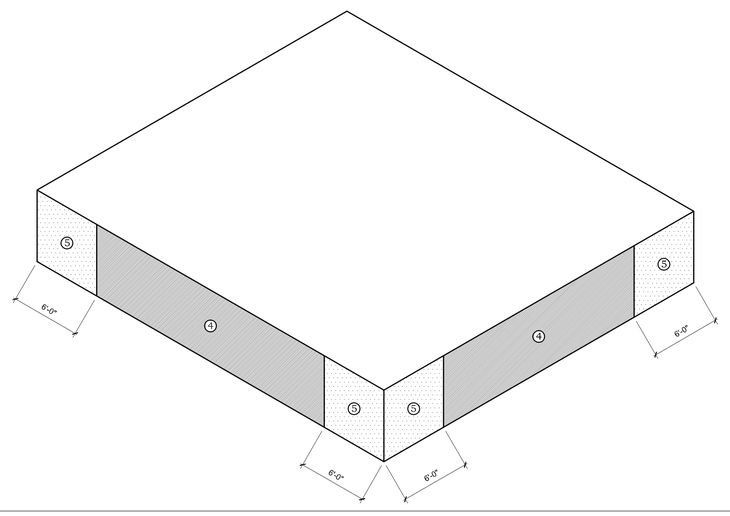

EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	4	28.3 psf
20	4	27.1 psf
50	4	25.6 psf
10	5	34.8 psf
20	5	32.5 psf
50	5	29.5 psf

COMPONENTS AND CLADDING
SCALE: N.T.S.

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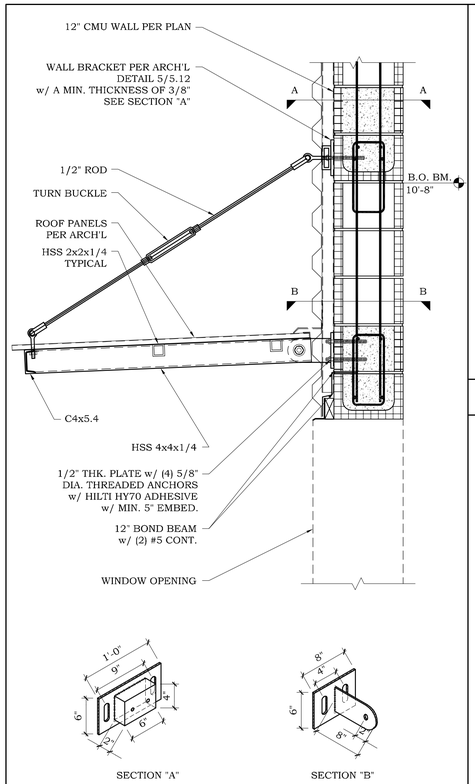
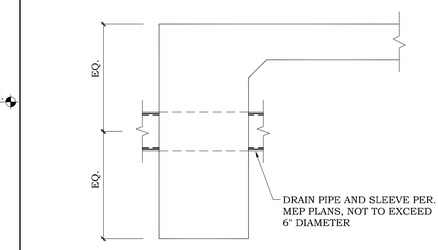
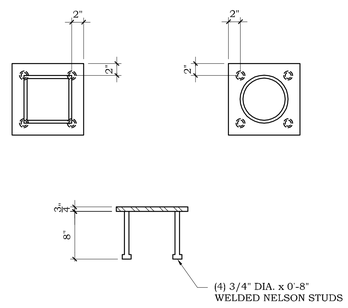


CANOPY TO CMU WALL | 18



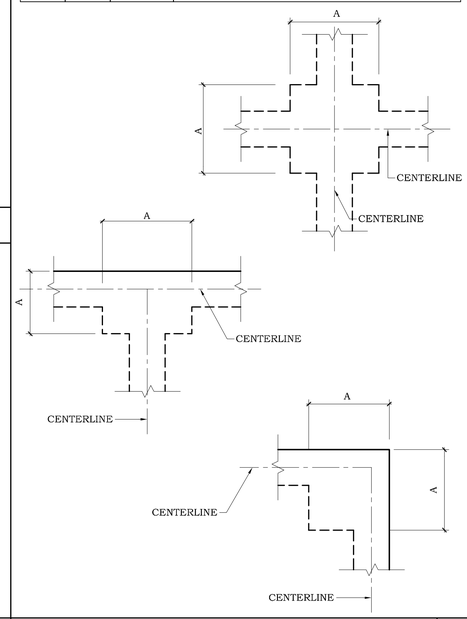
PIPE EXTERIOR FOOTING | 13



NOTE: DIMENSION FROM EDGE OF PLATE TO FACE OF COLUMN

BASE PLATE DETAIL | 9

FOOTING SCHEDULE AT STEEL COLUMNS			
TYPE	A	DEPTH	REBAR REINFORCEMENT
S3	3'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S3A	3'-6"	2'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S4	4'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S5	5'-6"	2'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM



TYPE "S" FOOTING SCHEDULE | 6

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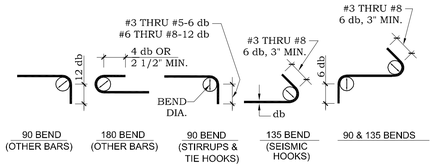
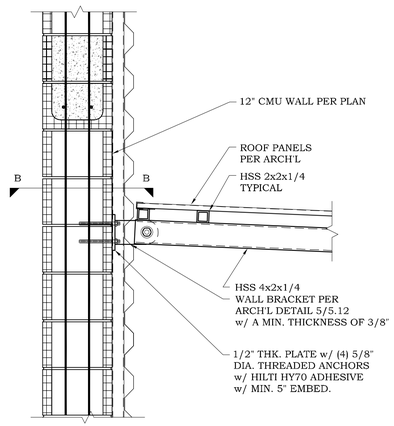
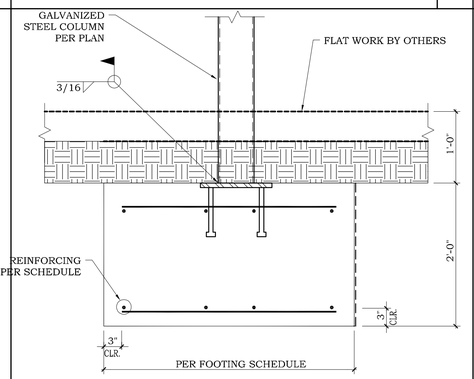


DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
	8 db FOR #9 THRU #11 BARS
	10 db FOR #14 THRU #18 BARS

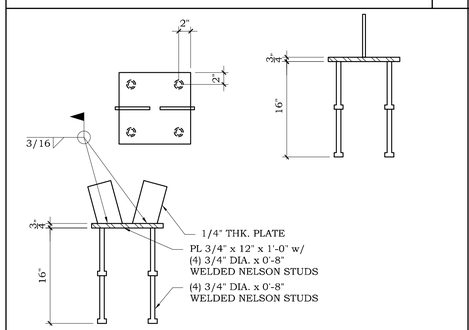
STANDARD HOOKS | 2



CANOPY TO CMU WALL | 20

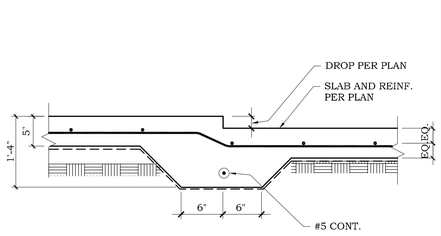


FOOTING AT STEEL COLUMN | 15

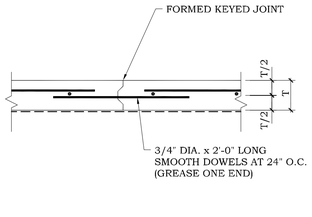


NOTE: DIMENSION FROM EDGE OF PLATE TO FACE OF COLUMN

BASE PLATE DETAIL | 16

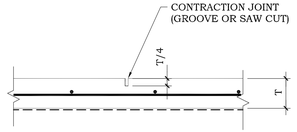


DROP AT SLAB ON GRADE | 14



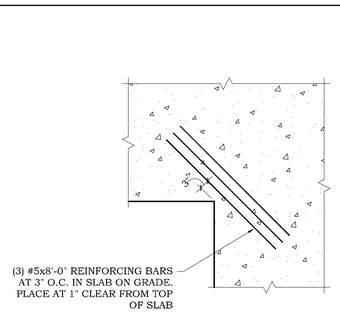
1. CONTRACTOR TO SUBMIT ANY PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
2. GRADE BEAM REINFORCING SHALL BE CONTINUOUS THRU JOINT

CONSTRUCTION JOINT DETAIL | 10

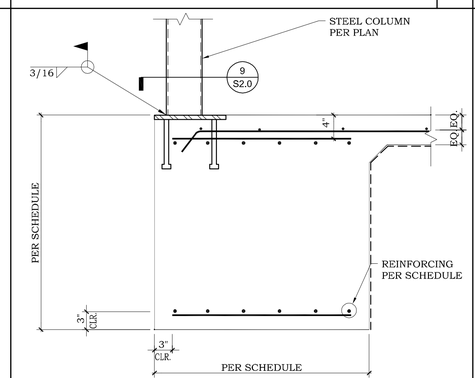


1. JOINT PATTERN SHALL BE NEARLY SQUARE
2. JOINT SPACING SHALL NOT EXCEED 15'-0"

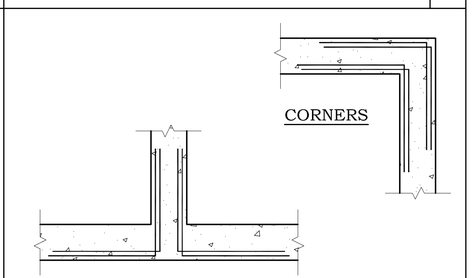
CONTRACTION JOINT DETAIL | 11



TYPICAL SLAB REINFORCING | 12

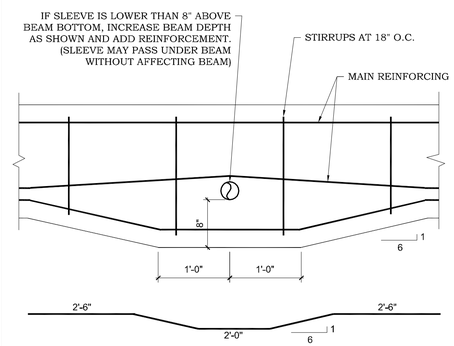


FOOTING AT STEEL COLUMN | 8



NOTE:
PROVIDE (4) #6 x 6'-0" CORNER BARS
(2)-TOP & (2) -BOTTOM AS SHOWN
IN DETAILS ABOVE

TYPICAL CORNER BARS | 4



TYPICAL SLEEVE IN GRADE BEAM | 3

LINN - SAN MANUEL EMERGENCY SERVICE FACILITY PRECINCT NO. 4
PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

PROJECT #: 13234
DATE: 02.25.14
DRAWN BY: L.R.
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

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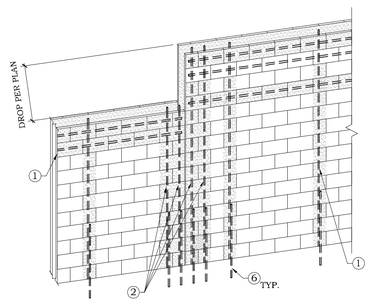
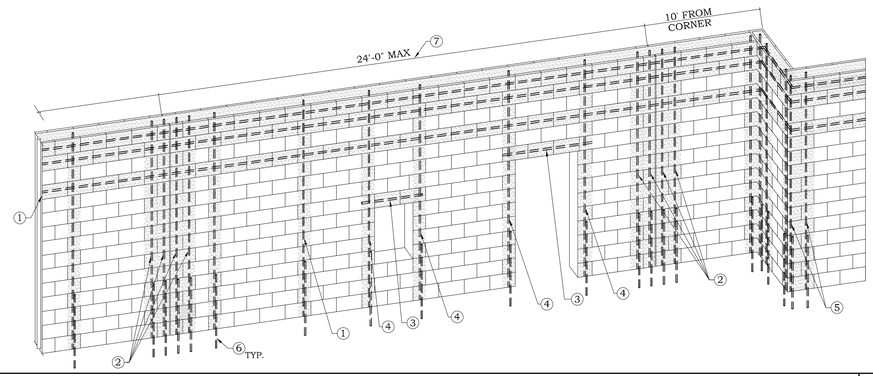
SHEET: S2.0

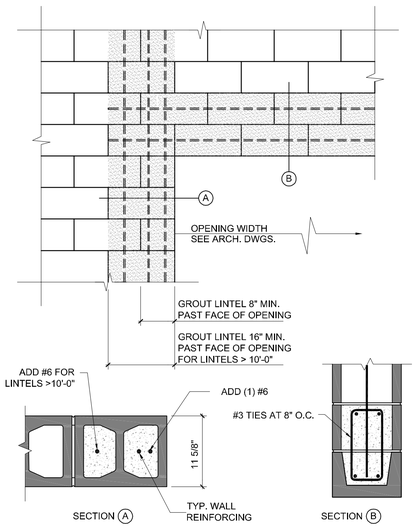
1. TYPICAL WALL REINFORCING AS CALLED OUT IN PLANS AND GENERAL NOTES.
2. VERTICAL REINFORCING AT CONTROL JOINTS, REFER TO DETAIL 8,16 / S2.1
3. LINTELS PER LINTEL SCHEDULE, REFER TO DETAIL 7,19 / S2.1
4. ADDITIONAL VERTICAL REINFORCING AT JAMBS OF ALL OPENINGS
5. WALL CORNER REINFORCING, REFER TO DETAIL 2,3,4 / S2.1 12,14,16 / S2.1
6. DOWELS TO MATCH VERTICAL REINFORCEMENT PER PLAN, TYPICAL
7. CONTROL JOINT SPACING AS NOTED IS MAXIMUM ALLOWED, COORDINATE CONTROL JOINT LOCATIONS w/ARCHITECTURAL PLANS.





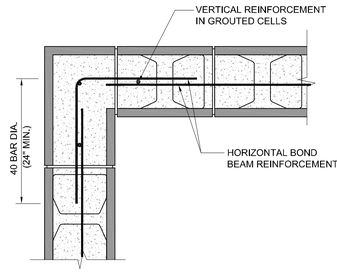
TYPICAL CMU WALL CONSTRUCTION | 5

NOT USED | 1

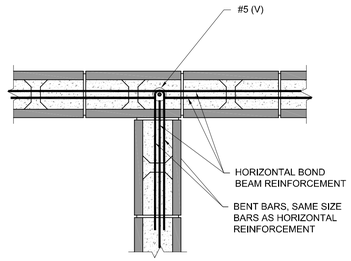


LINTEL SCHEDULE					
CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	12"	8"	(2)#5		
<4'-8"	12"	16"	(2)#5 (T) & (B)	8"	
<6'-8"	12"	16"	(2)#6 (T) & (B)	8"	
<12'-0"	12"	24"	(2)#6 (T) & (B)	8"	

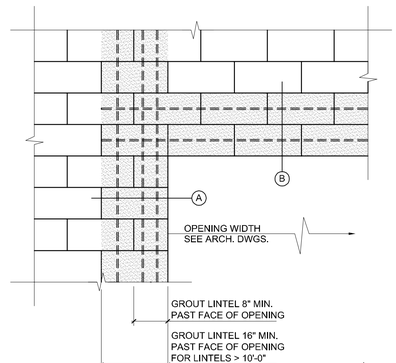
12" CMU LINTEL SCHEDULE | 19



12" TYPICAL BOND BEAM CORNER | 14

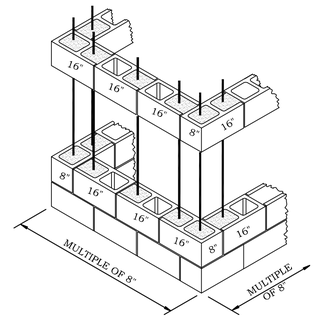


8" TYPICAL BOND BEAM INTERSECTION | 10

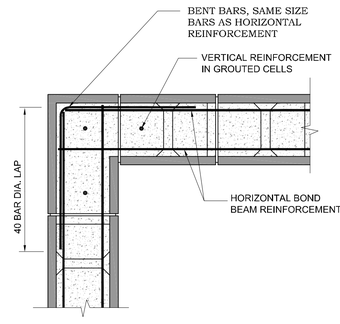


LINTEL SCHEDULE					
CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	8"	8"	(1)#5		
<4'-8"	8"	16"	(1)#5 (T) & (B)	8"	
<6'-8"	8"	16"	(1)#6 (T) & (B)	8"	
<10'-0"	8"	24"	(1)#6 (T) & (B)	8"	
<12'-0"	8"	24"	(1)#7 (T) & (B)	8"	

8" LINTEL SCHEDULE | 7



8" TYPICAL CMU CORNER DETAIL | 2

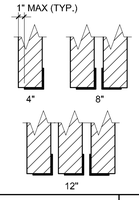


12" TYPICAL BOND BEAM CORNER | 15

STEEL LINTEL SCHEDULE			
SIZE (MIN.-NOTE 4)	CLEAR OPNG. GREATER THAN	CLEAR OPNG. UP TO	REMARKS
L4x4x3/8	----	8'-0"	MIN. OF 8" BEARING AT EACH END
L6x4x3/8	8'-0"	11'-0"	MIN. OF 8" BEARING AT EACH END
L7x4x3/8	11'-0"	12'-0"	MIN. OF 8" BEARING AT EACH END
L8x4x1/2	12'-0"	14'-0"	MIN. OF 8" BEARING AT EACH END

NOTES:

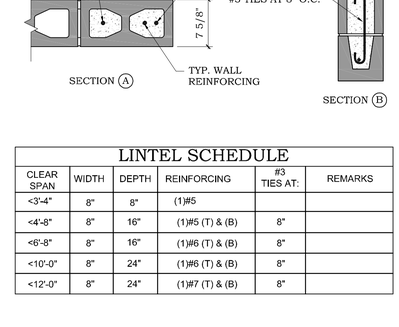
1. PROVIDE ONE MEMBER FOR EACH 4" (NORMAL) WIDTH OF MASONRY
2. INSTALL ALL LOOSE LINTELS WITH LONG LEG VERT.
3. PROVIDE SHORING UNDER LINTELS OVER 8'-0" LONG UNTIL GROUT HAS SET 72 HOURS.
4. ANGLE SIZE IS MIN. COORDINATE REQUIRED HORIZ. LEG DIMENSION w/ ARCH. DRAWING.



TYPICAL LINTEL DETAILS

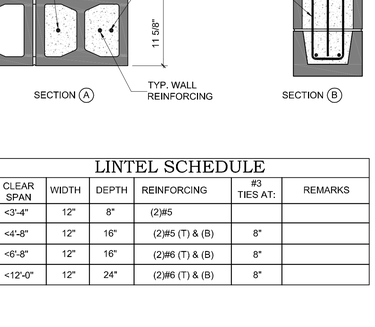
- FOR SUPPORT OF MASONRY WEIGHT ONLY.
- DEFLECTION AT L/600.
- LINTELS SHALL BE GALVANIZED STEEL.

STEEL LINTEL SCHEDULE | 11



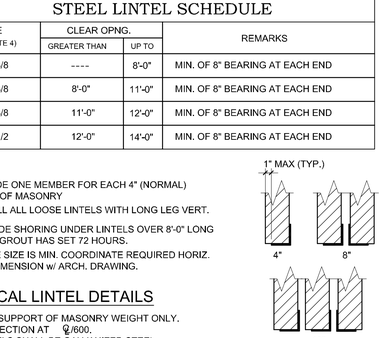
8" CMU CONTROL JOINT (C.J.) | 8

8" TYPICAL BOND BEAM CORNER | 3



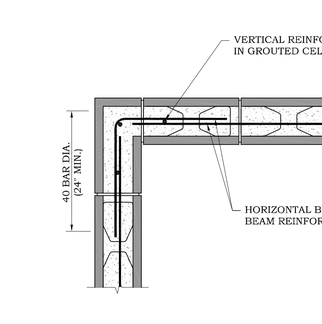
12" TYPICAL BOND BEAM INTERSECTION | 20

12" CMU CONTROL JOINT (C.J.) | 16



12" TYPICAL CMU CORNER DETAIL | 12

8" CMU CONTROL JOINT (C.J.) | 8



8" TYPICAL BOND BEAM CORNER | 4

CHANIN
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www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
2-25-14

PROJECT #: 13234
DATE: 02.25.14
DRAWN BY: L.R.
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

LINN - SAN MANUEL EMERGENCY
SERVICE FACILITY PRECINCT NO. 4
PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

Mata & Garcia
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SHEET: S2.1

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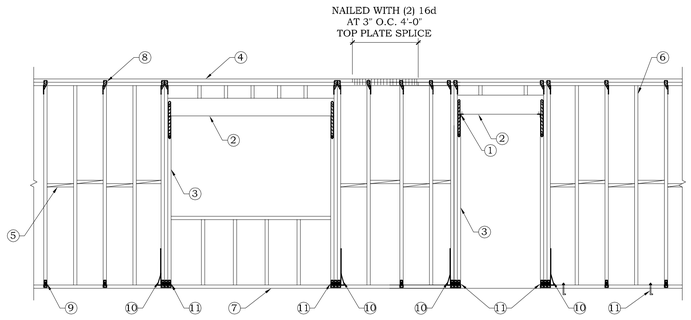
① SIMPSON CS16 STRAP
② HEADER PER SCHEDULE (U.N.O.) ON PLANS
③ 2-STUDS ADJACENT FOR EXT. OPENINGS.
1-STUD ADJACENT FOR INT. OPENINGS
④ (2) 2x TOP PLATE
⑤ 2x BLOCKING AT MID SPAN
⑥ STUDS AT 16" O.C., U.N.O.
⑦ 2x SILL PLATE
⑧ SIMPSON H2.5A AT EVERY OTHERS STUD
⑨ "RSP4" AT EVERY OTHER STUD
⑩ "HTT5" AS SPECIFIED
⑪ (3) "RSP4"
⑫ 5/8" DIA. J BOLT AT 48" O.C. AT EXTEIOR WALLS OR 5/8" DIA. TITEN HD SCREWS AT 48" O.C. AT INTERIOR WALLS.



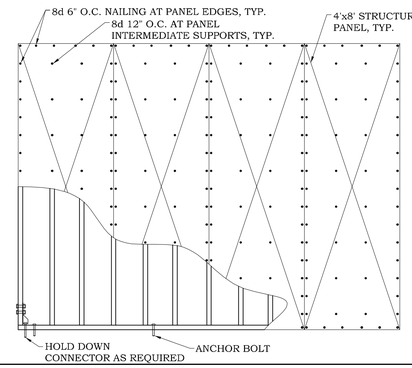
HEADERS SHALL BE SUPPORTED AS FOLLOWS:

1. FOR OPENINGS LESS THAN 6'-0", EACH END SHALL REST ON A SINGLE HEADER STUD.
2. FOR OPENINGS GREATER THAN 6'-0", EACH END SHALL REST ON TWO HEADER STUDS.

HEADER SCHEDULE 2x4 WALL			
BEARING WALLS		NON-BEARING WALLS	
OPNG. WIDTH	HEADER SIZE	OPNG. WIDTH	HEADER SIZE
3'-4" MAX	2-2x8	4'-0" MAX	2-2x4
6'-0" MAX	2-2x10	6'-0" MAX	2-2x6
7'-6" MAX	2-2x12		
8'-11" MAX	2-2x14		

HEADER SCHEDULE 2x6 WALL	
BEARING WALLS	
OPNG. WIDTH	HEADER SIZE
2'-0" MAX	3-2x6
3'-4" MAX	3-2x8
6'-0" MAX	3-2x10
7'-6" MAX	3-2x12
9'-0" MAX	3-2x14

TYPICAL WALL/HEADER SCHEDULE | 9



TYPICAL NAILING PATTERN | 5

NOT USED | 1

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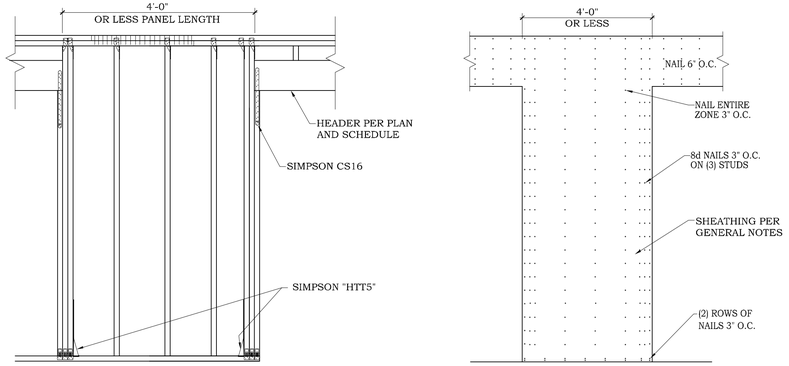
3:
4:

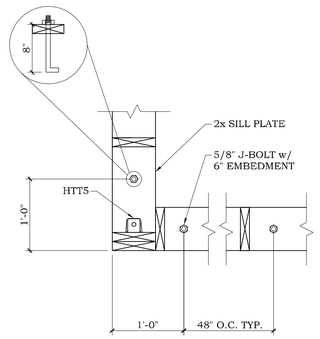
LINN - SAN MANUEL EMERGENCY
SERVICE FACILITY PRECINCT NO. 4
PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

NOT USED | 18

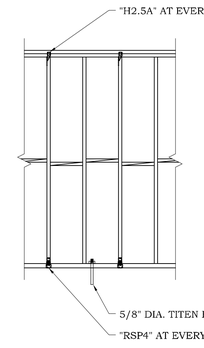
4'-0" OR LESS SHEAR WALLS | 10



TYP. ANCHOR BOLT PLACEMENT | 6



WALL DETAIL AT BEARING WALLS | 2

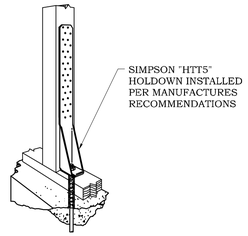


NOT USED | 19

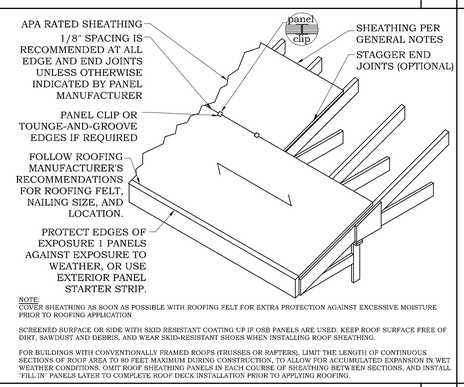
CONNECTION	FASTENING	LOCATION
JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
BRIDGING TO JOIST	2-8d COMMON (2 1/2" x 0.131")	TOENAIL EACH END
TOP PLATE TO STUD	2-16d COMMON (3 1/2" x 0.162")	END NAIL
STUD TO SOLE PLATE	4-8d COMMON (2 1/2" x 0.131") 2-16d COMMON (3 1/2" x 0.162")	TOENAIL END NAIL
DOUBLE STUDS	16d (3 1/2" x 0.135") AT 24" O.C.	FACE NAIL
DOUBLE TOP PLATES DOUBLE TOP PLATES	16d (3 1/2" x 0.135") AT 16" O.C. 8-16d COMMON (3 1/2" x 0.162")	TYPICAL FACE NAIL LAP SPLICE
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (3 1/2" x 0.162")	FACE NAIL
CEILING JOIST TO PLATE	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
CEILING JOIST, LAPS OVER PARTITIONS	3-16d COMMON (3 1/2" x 0.162") MIN.	FACE NAIL
CEILING JOIST TO PARALLEL RAFTERS	3-16d COMMON (3 1/2" x 0.162") MIN.	FACE NAIL
RAFTER TO PLATE	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
BUILT-UP CORNER STUDS	16d COMMON (3 1/2" x 0.162")	24" O.C.
BUILT-UP GIRDER AND BEAMS	20d COMMON (4" x 0.192") 32" O.C. 2-20d COMMON (4" x 0.192")	FACE NAIL AT TOP AND BOTTOM ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SIDE
COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148")	FACE NAIL
JACK RAFTER TO HIP	3-10d COMMON (3" x 0.148") 2-16d COMMON (3 1/2" x 0.162")	TOENAIL FACE NAIL
ROOF RAFTER TO 2-BY RIDGE BEAM	4-16d COMMON (3 1/2" x 0.162") 4-16d COMMON (3 1/2" x 0.162")	TOENAIL FACE NAIL
JOIST TO BAND JOIST	3-16d COMMON (3 1/2" x 0.162")	FACE NAIL
LEDGER STRIP	3-16d COMMON (3 1/2" x 0.162")	FACE NAIL

NOT USED | 20

FASTENING SCHEDULE | 12



SIMPSON STRONG-TIE "HTT5" | 7

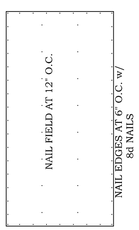


NOTE:
COVER SHEATHING AS SOON AS POSSIBLE WITH ROOFING FELT FOR EXTRA PROTECTION AGAINST EXCESSIVE MOISTURE PRIOR TO ROOFING APPLICATION

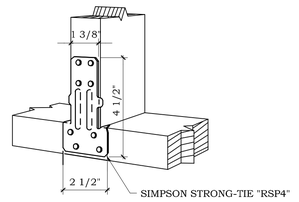
SCREENED SURFACE OR SIDE WITH SKID RESISTANT COATING UP IF OSB PANELS ARE USED. KEEP ROOF SURFACE FREE OF DIRT, SAWDUST AND DEBRIS, AND WEAR SKID-RESISTANT SHOES WHEN INSTALLING ROOF SHEATHING.

FOR BUILDINGS WITH CONVENTIONALLY FRAMED ROOFS (TRUSSES OR RAFTERS), LIMIT THE LENGTH OF CONTINUOUS SECTIONS OF ROOF AREA TO 80 FEET MAXIMUM DURING CONSTRUCTION, TO ALLOW FOR ACCUMULATED EXPANSION IN WET WEATHER CONDITIONS. OMIT ROOF SHEATHING PANELS IN EACH COURSE OF SHEATHING BETWEEN SECTIONS, AND INSTALL "FILL IN" PANELS LATER TO COMPLETE ROOF DECK INSTALLATION PRIOR TO APPLYING ROOFING.

TYPICAL ROOF SHEATHING | 8



OSB NAILING (TYP.) U.N.O. | 4



STUD TO BOTTOM PLATE | 3

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SHEET: S2.2

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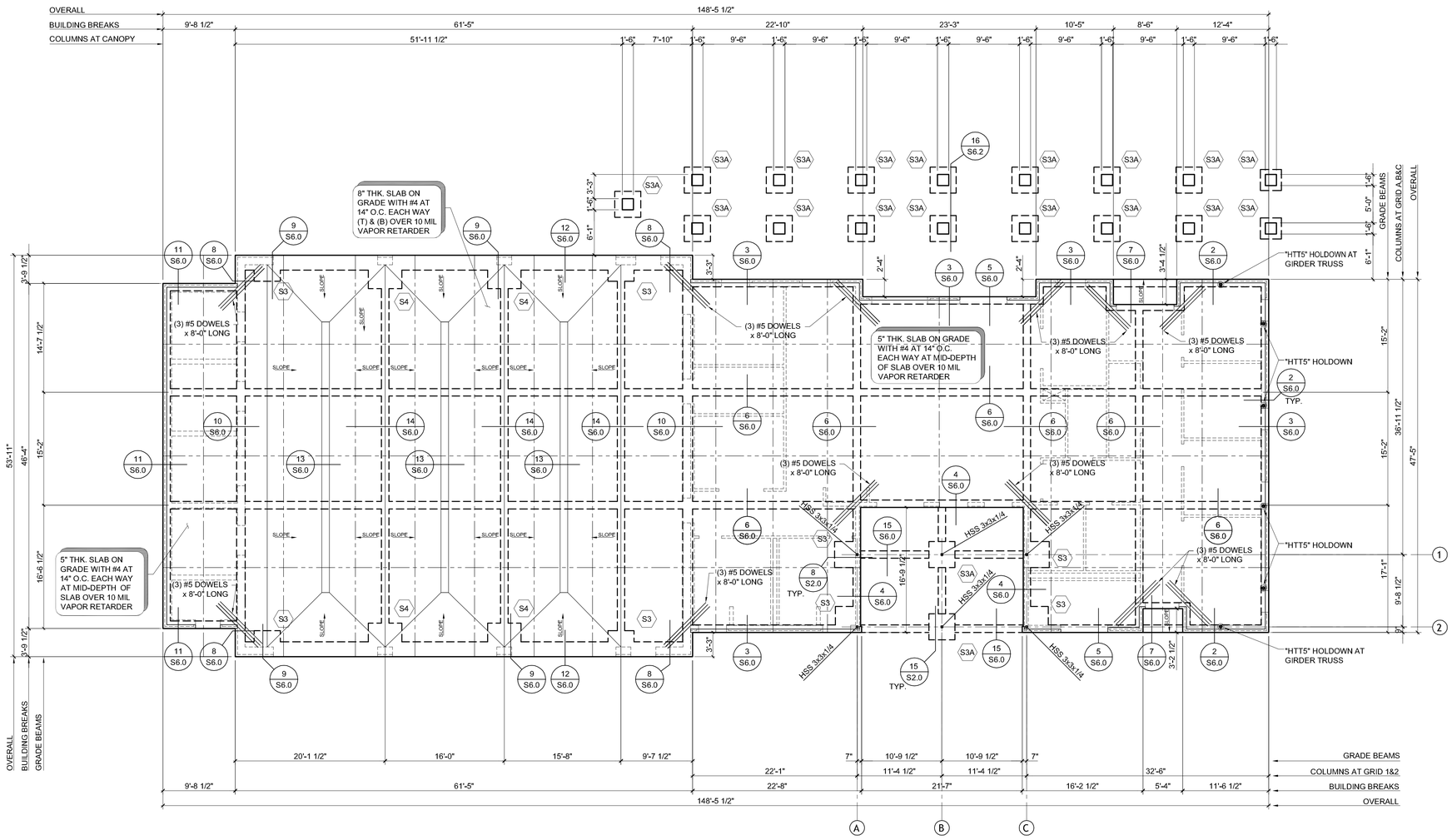
TBPE FIRM REG. NUMBER F-9369

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
2-25-14

PROJECT #: 13234
DATE: 02.25.14
DRAWN BY: L.R.
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

LINN - SAN MANUEL EMERGENCY SERVICE FACILITY PRECINCT NO. 4

PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY



FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT, SEE DETAIL 6/S2.0

FOUNDATION PLAN

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

Mata & Garcia ARCHITECTS L.L.P
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project management
interior design
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Hector Rene Garcia R.A., Partner
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SHEET: S3.0

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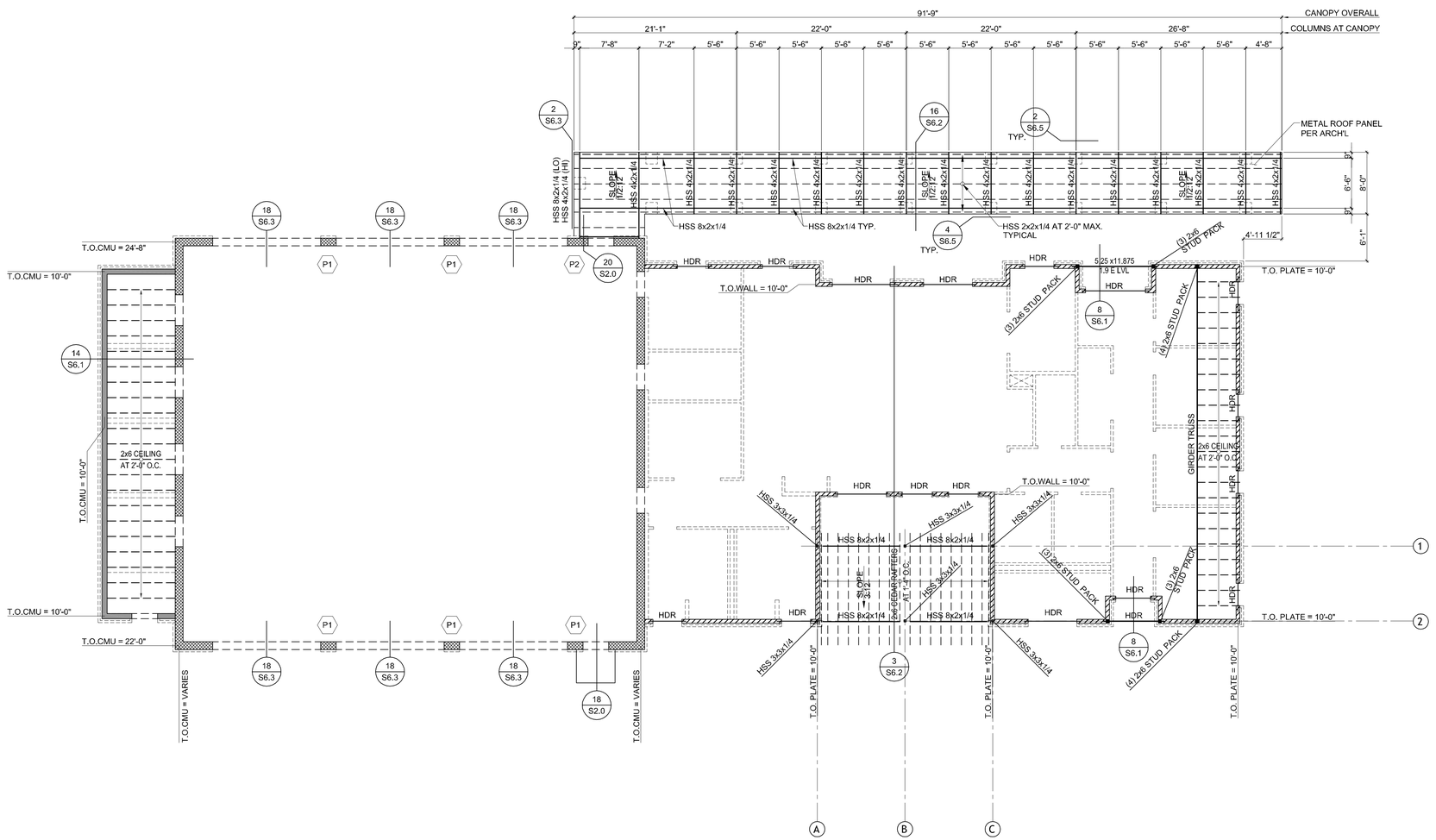

NOTE:
ALL EXPOSED EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED

CMU WALL / STUD WALL LAYOUT NOTES:

1. IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
2. FOR TYPICAL CMU WALL CONSTRUCTION SEE SHEET S2.2.
3. ▬ INDICATES EXTERIOR 8" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
4. ▩ INDICATES EXTERIOR 12" CMU WALL WITH #6 (V) AT 48" O.C. AND (2) #5 (H) AT 8'-0" O.C., U.N.O.
5. ═ ═ INDICATES LINTEL, SEE DETAIL 7/S2.1, 19/S2.1.
6. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
7. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
8. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, HEIGHT OF ALL OPENINGS IN CMU WALLS.
9. FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
10. PROVIDE CMU LINTEL OVER ALL MECHANICAL SYSTEM PENETRATIONS IN CMU WALL.
11. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
12. 12" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 11 5/8".
13. ▨ INDICATES 2x6 STUDS SPACED AT 16" O.C. SHEATHED WITH CDX PLYWOOD, SEE GENERAL NOTES TO NAILING PATTERN.
14. SIMPSON HTT5 HOLDOWN INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
15. ALL INTERIOR SHEAR WALLS SHALL HAVE 1/2" DIA. x 8" LONG TITEN HD ANCHORS SPACED AT 48" O.C. ON BOTTOM SILL PLATE.
16. (P1) INDICATES CMU PILASTER SEE DETAIL 16/S6.0
17. (P2) INDICATES CMU PILASTER SEE DETAIL 17/S6.0

CMU WALL PLAN / STUD WALL PLAN

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

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SHEET: S4.0

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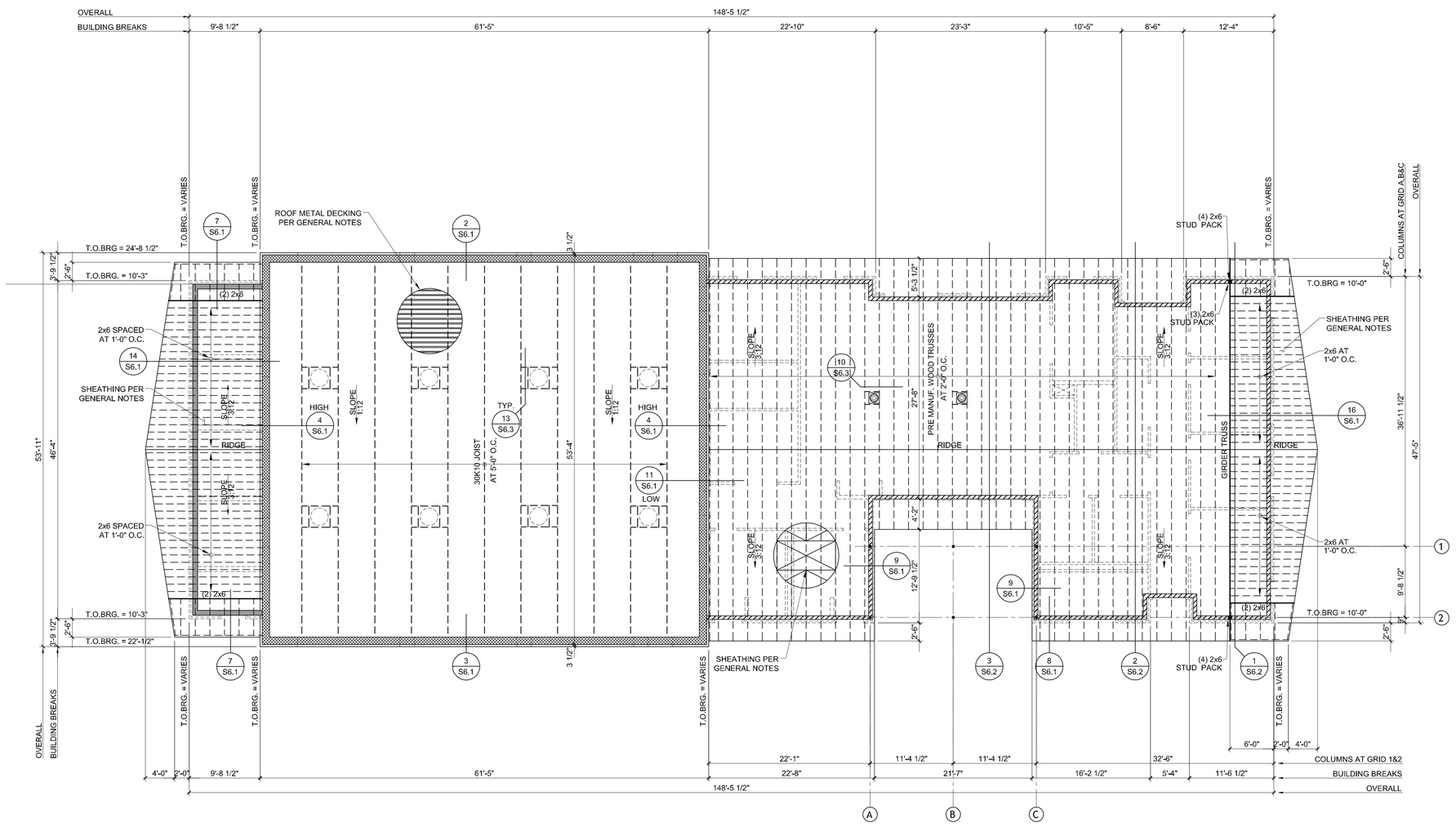

NOTE:
ALL EXPOSED EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED

FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. JOIST MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR JOISTS AS REQUIRED BY S.J.I.
5. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
7. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
8. 12" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 11 5/8".
9. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

FRAMING PLAN

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

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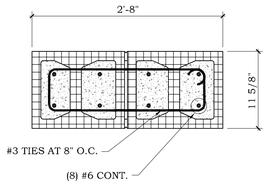
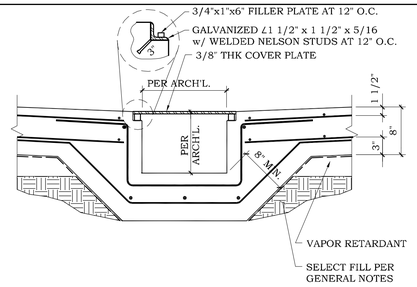
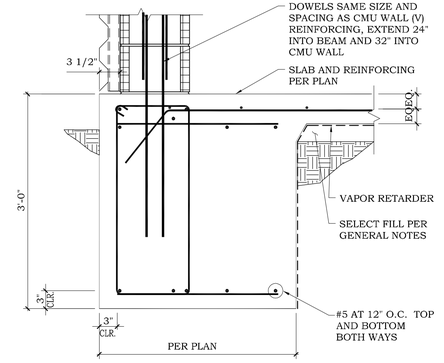
SHEET: S5.0



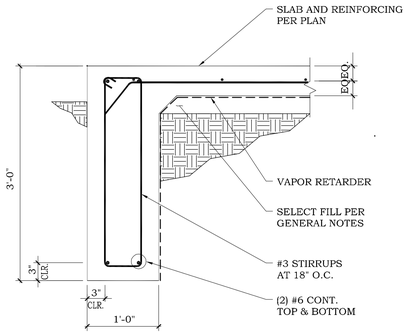
PILASTER "P2" | 17



TRENCH DETAIL | 13



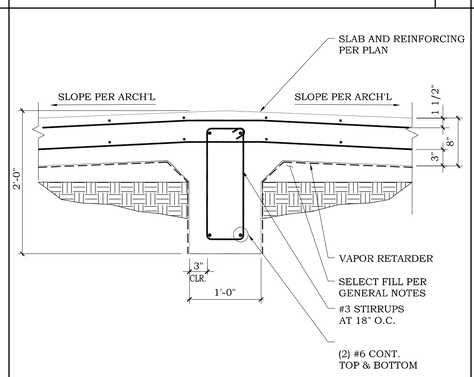
EXTERIOR FOOTING | 9



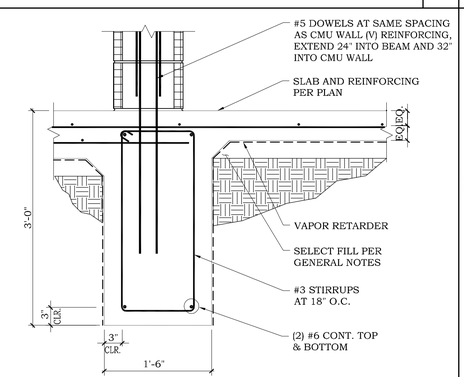
EXTERIOR FOOTING | 5

NOT USED | 1

NOT USED | 18



INTERIOR FOOTING | 14



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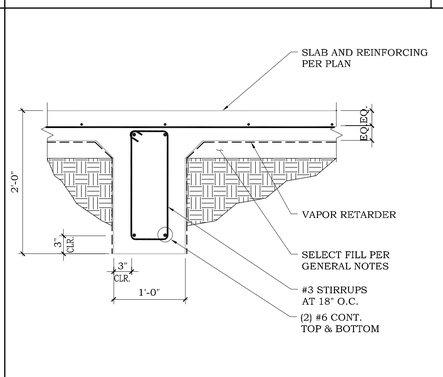
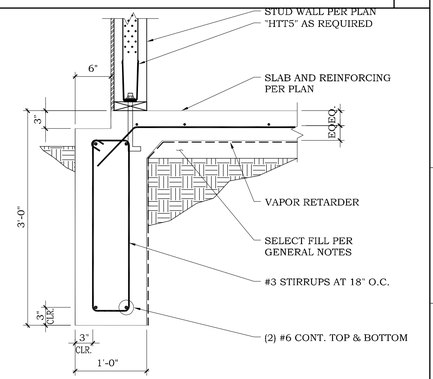


INTERIOR FOOTING | 6



EXTERIOR FOOTING | 2

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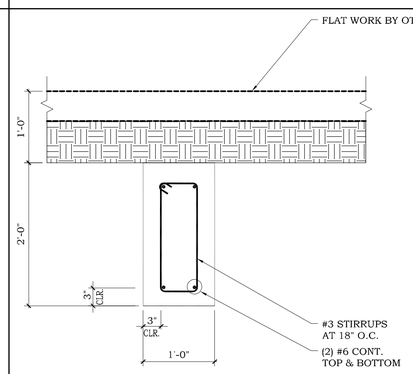
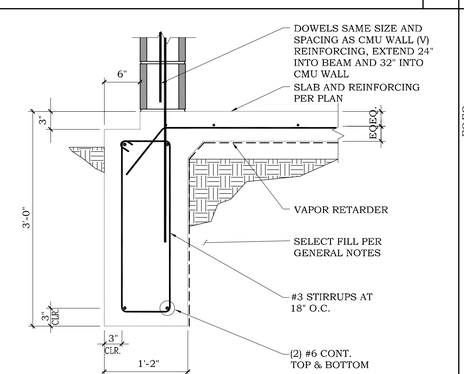


INTERIOR FOOTING AT CANOPY | 15



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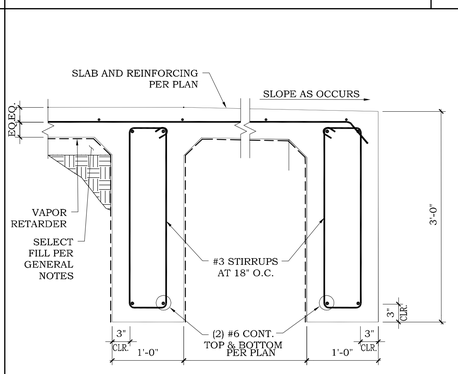

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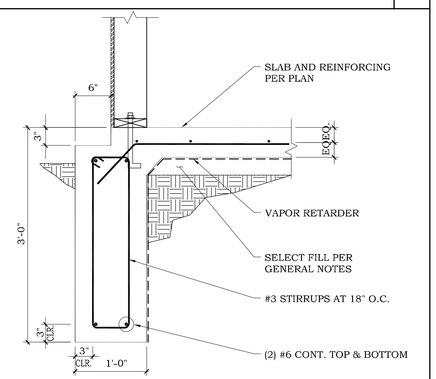

EXTERIOR FOOTING | 3

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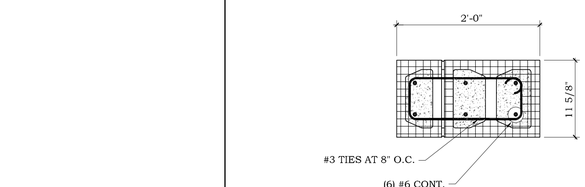
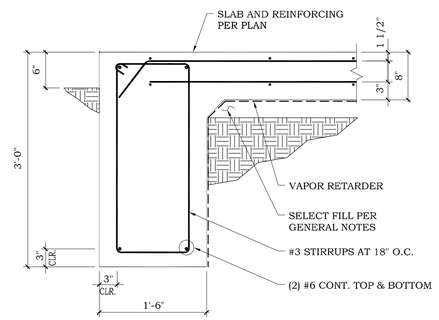


PILASTER "P1" | 16



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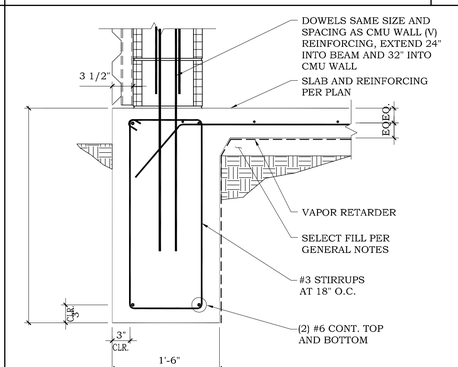

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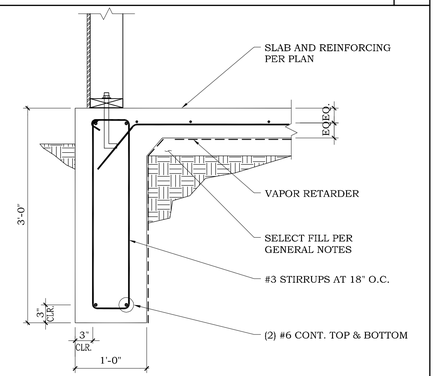

EXTERIOR FOOTING | 4

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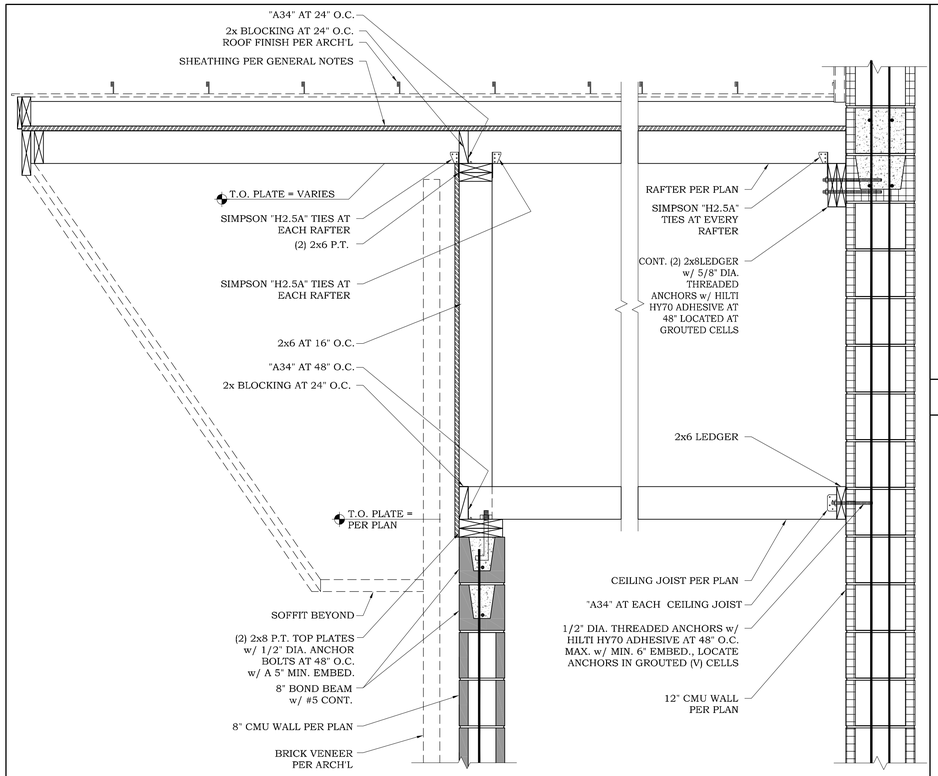
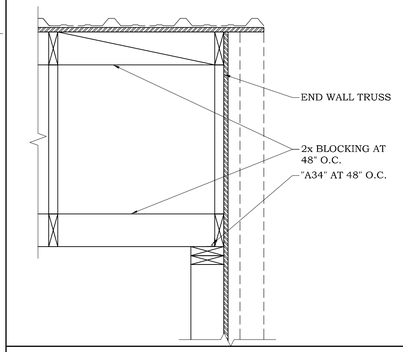
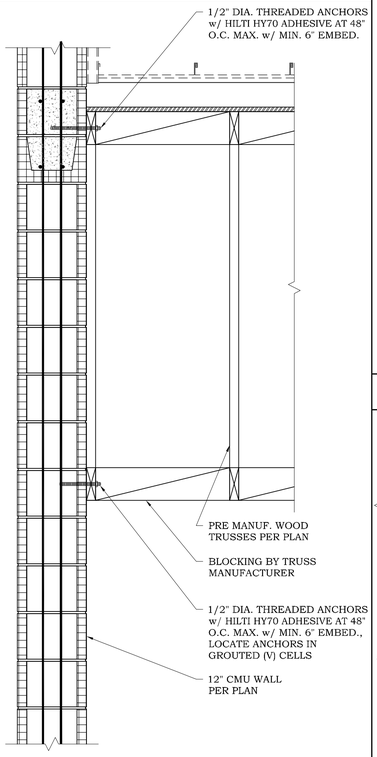


WOOD TRUSS TO CMU WALL | 14



WOOD TRUSS TO STUD WALL | 9



WOOD TRUSS TO CMU WALL | 11

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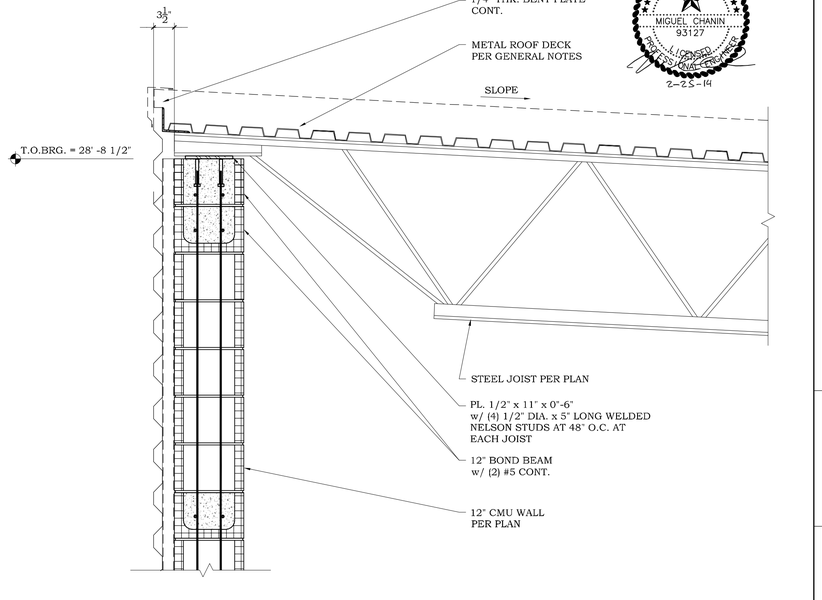
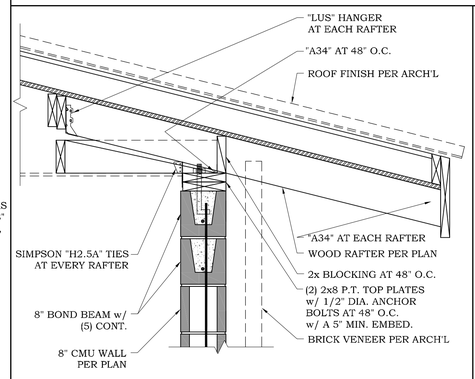
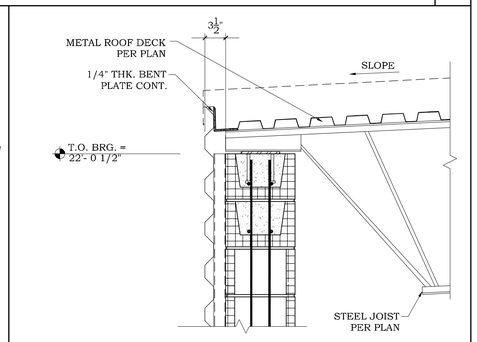


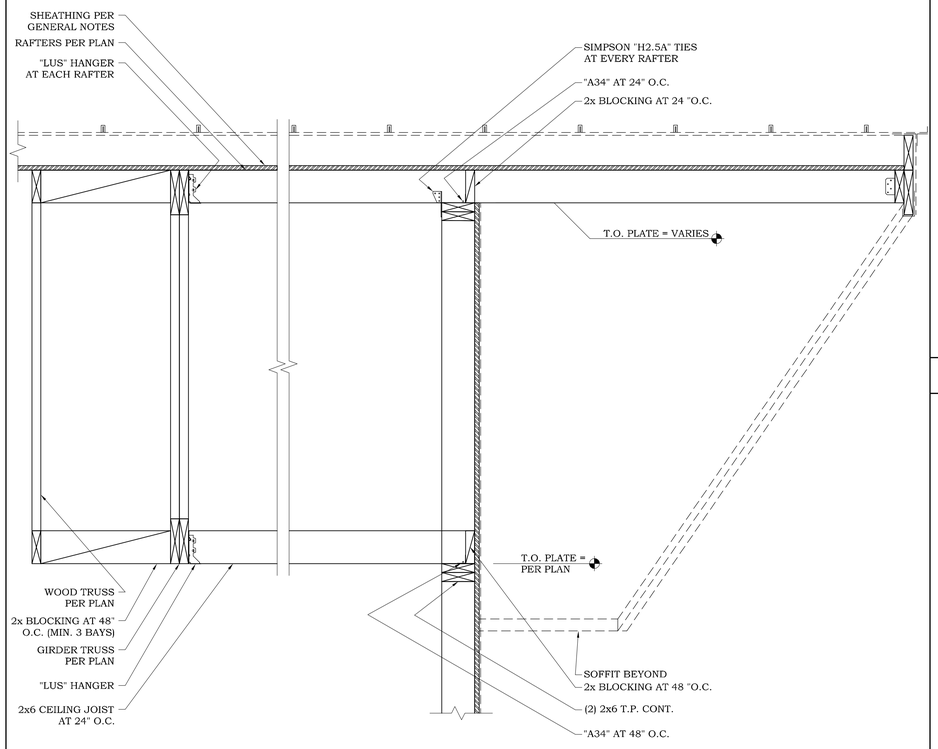
STEEL JOIST TO CMU WALL | 2



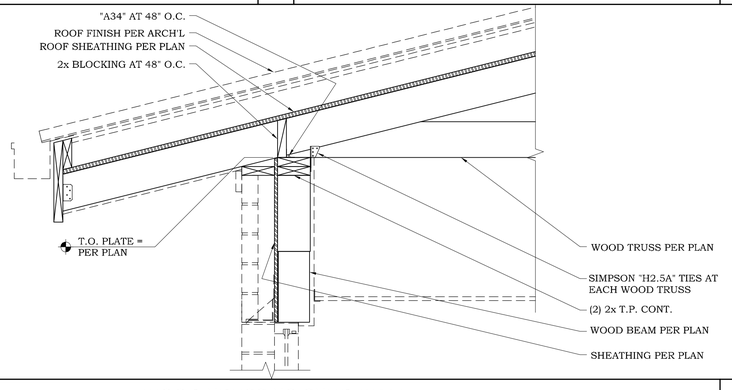
WOOD TRUSS TO CMU WALL | 7



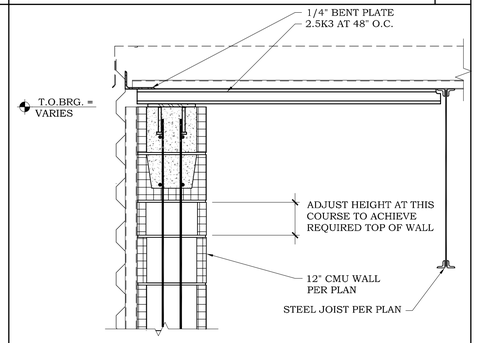
STEEL JOIST TO CMU WALL | 3



WOOD TRUSS TO STUD WALL | 16



WOOD TRUSS TO STUD WALL | 8



STEEL JOIST TO CMU WALL | 4

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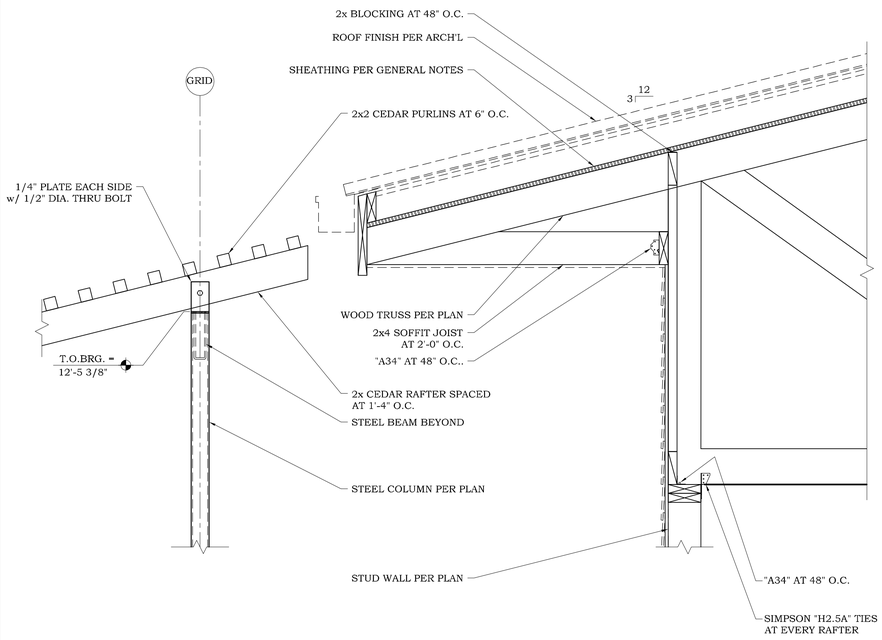
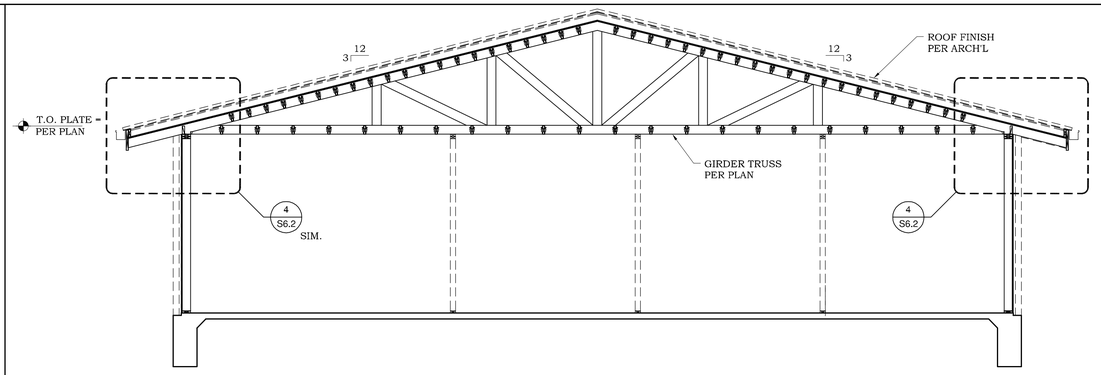
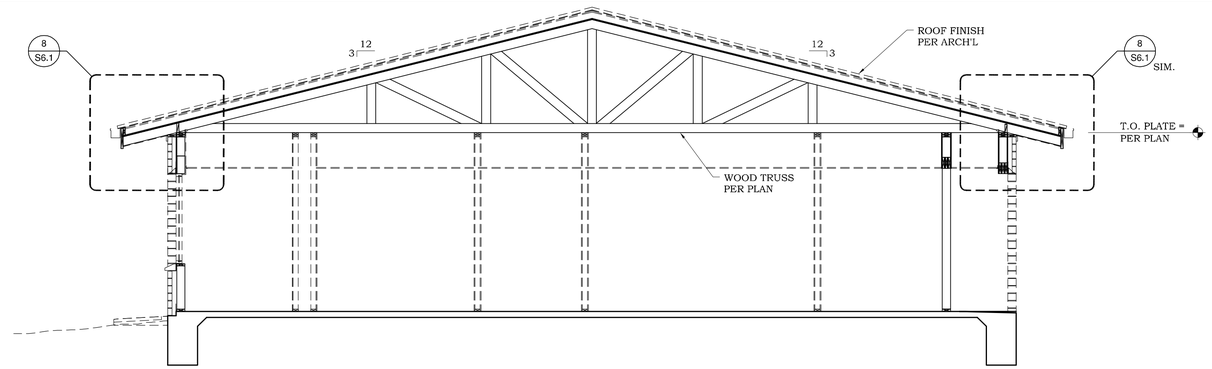
SHEET: S6.1



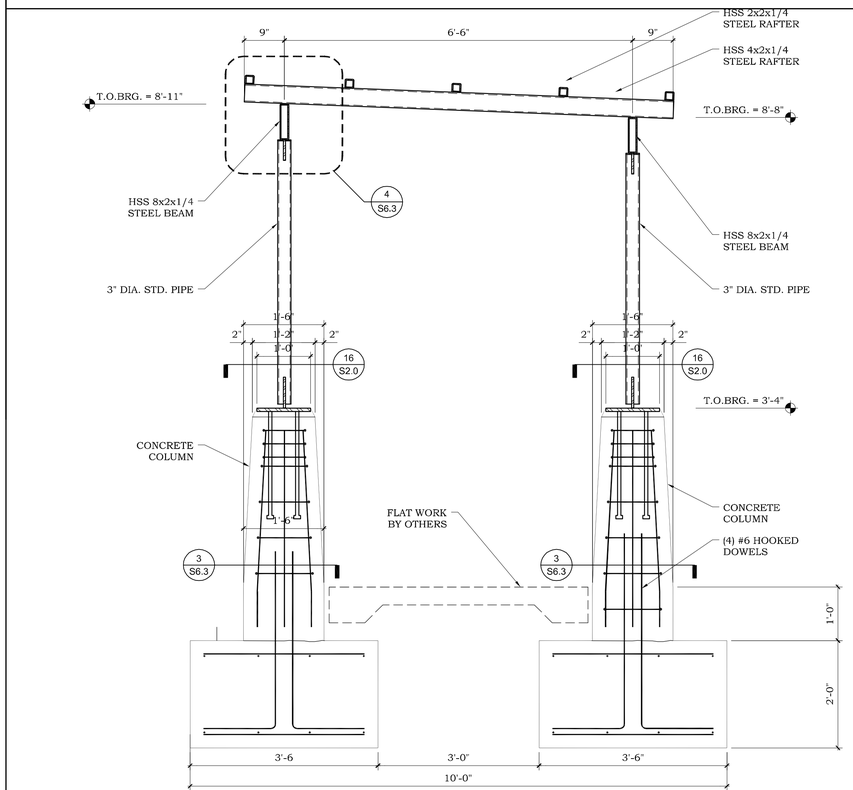
SECTION DETAIL | 14



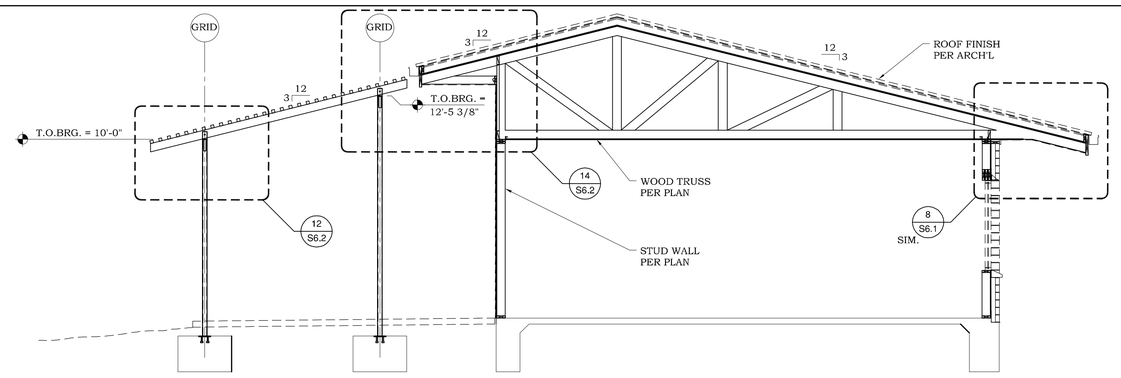
GIRDER TRUSS ELEVATION | 1



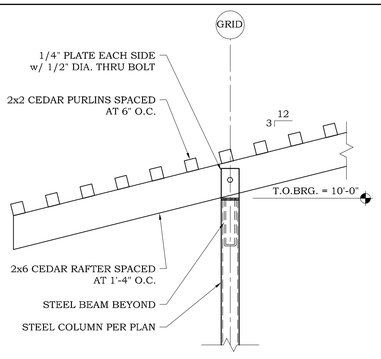
BUILDING SECTION | 2



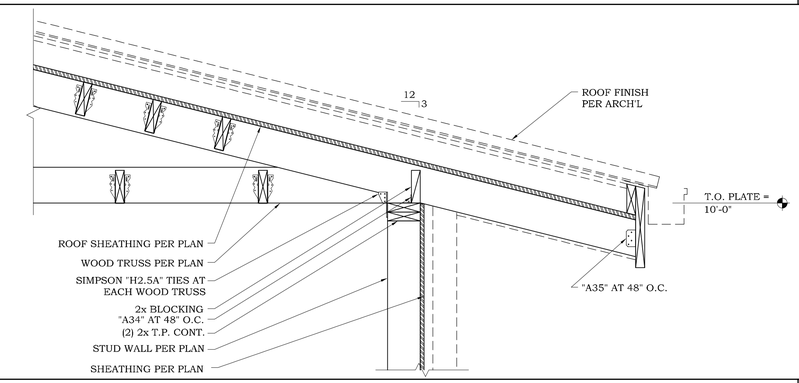
CANOPY DETAIL | 16



BUILDING SECTION | 3



STEEL BEAM TO STEEL COLUMN | 12



WOOD TRUSS TO STUD WALL | 4

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TBPE FIRM REG. NUMBER F-9369

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
2-25-14

PROJECT #: 13234
DATE: 02.25.14
DRAWN BY: L.R.
CHECKED BY: M.C.
REVISION:
1:
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4:

LINN - SAN MANUEL EMERGENCY
SERVICE FACILITY PRECINCT NO. 4
PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

Mata & Garcia
ARCHITECTS L.L.P
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SHEET: S6.2

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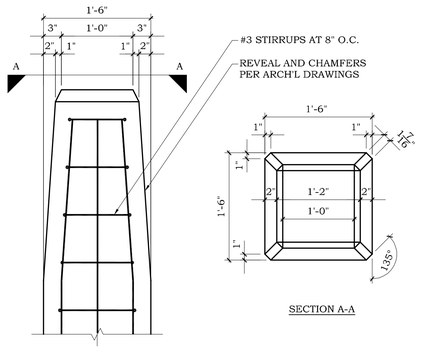
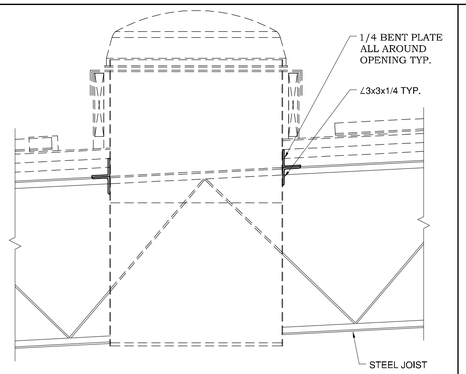
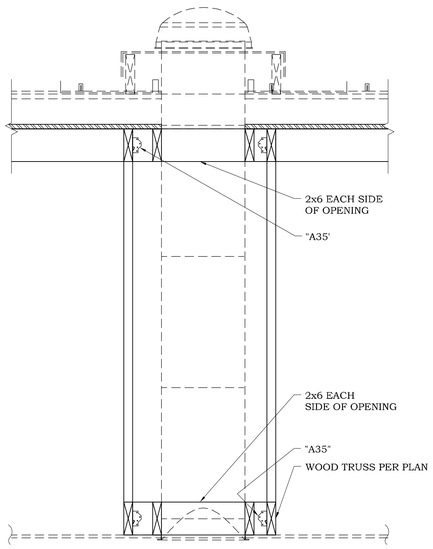


CANOPY SECTION | 17



SECTION AT SKY LIGHT | 13



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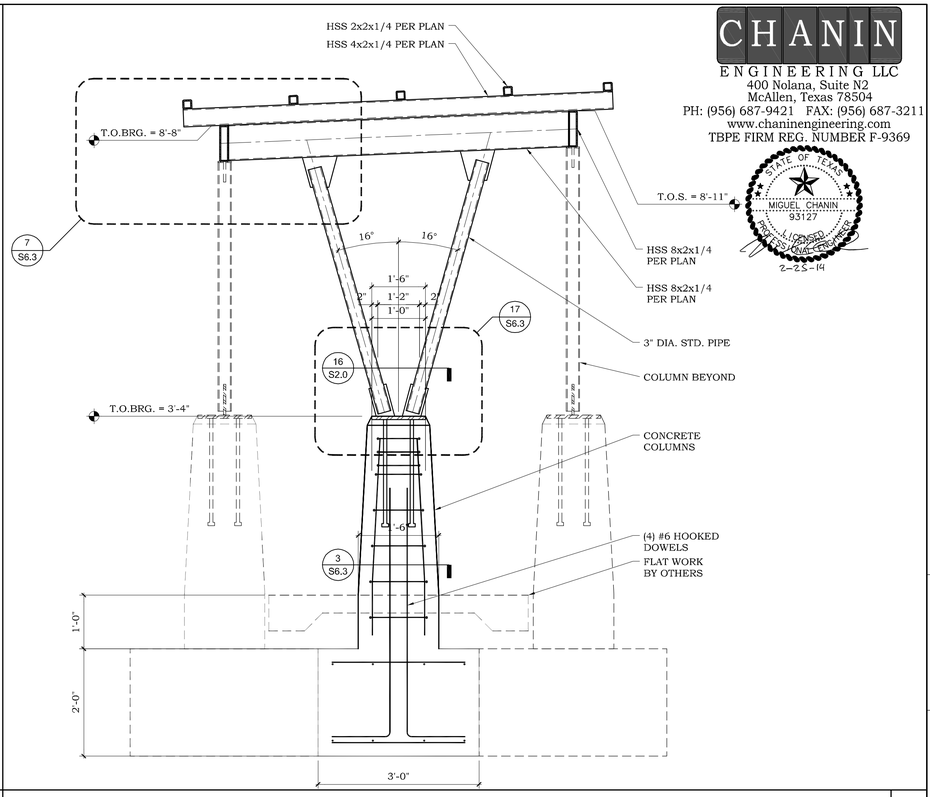
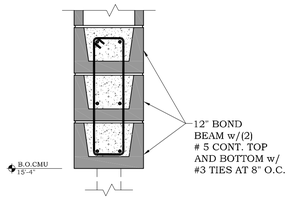
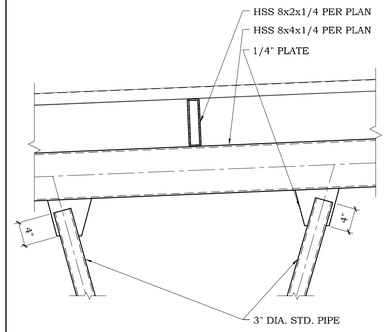


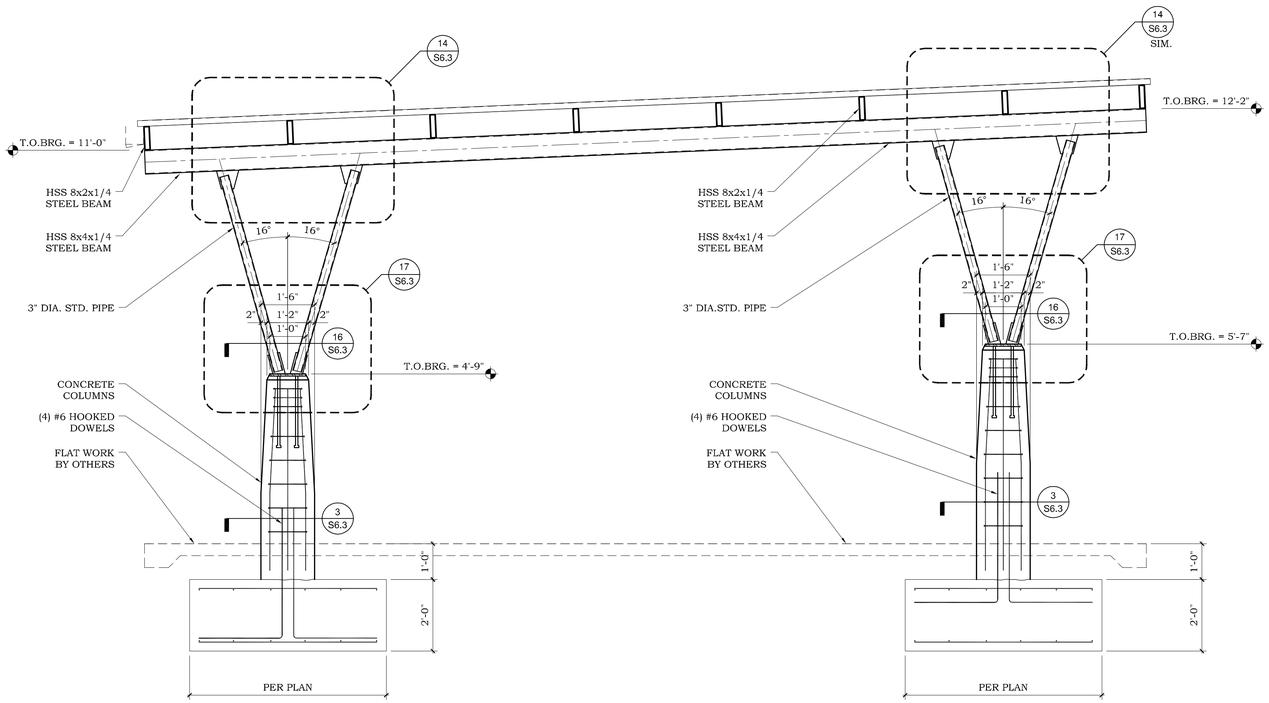
CANOPY DETAIL | 2



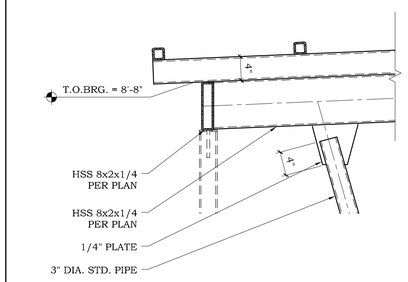
CMU LINTEL | 18



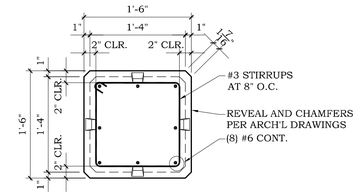
STEEL BEAM TO STEEL BRACE | 14



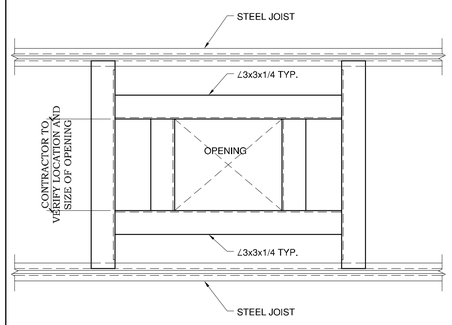
PARKING CANOPY DETAIL | 12



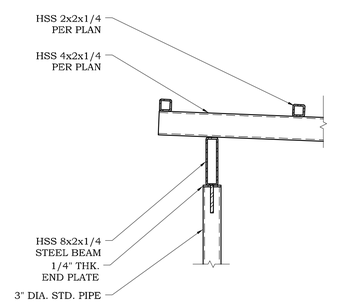
STEEL BEAM TO STEEL COLUMN | 7



CANOPY SECTION | 3



SUPPORT FOR HATCH OPENING | 8



STEEL BEAM TO STEEL COLUMN | 4

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STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
2-25-14

PROJECT #: 13234
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LINN - SAN MANUEL EMERGENCY
SERVICE FACILITY PRECINCT NO. 4

PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

Mata & Garcia
ARCHITECTS LLP
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SHEET: S6.3

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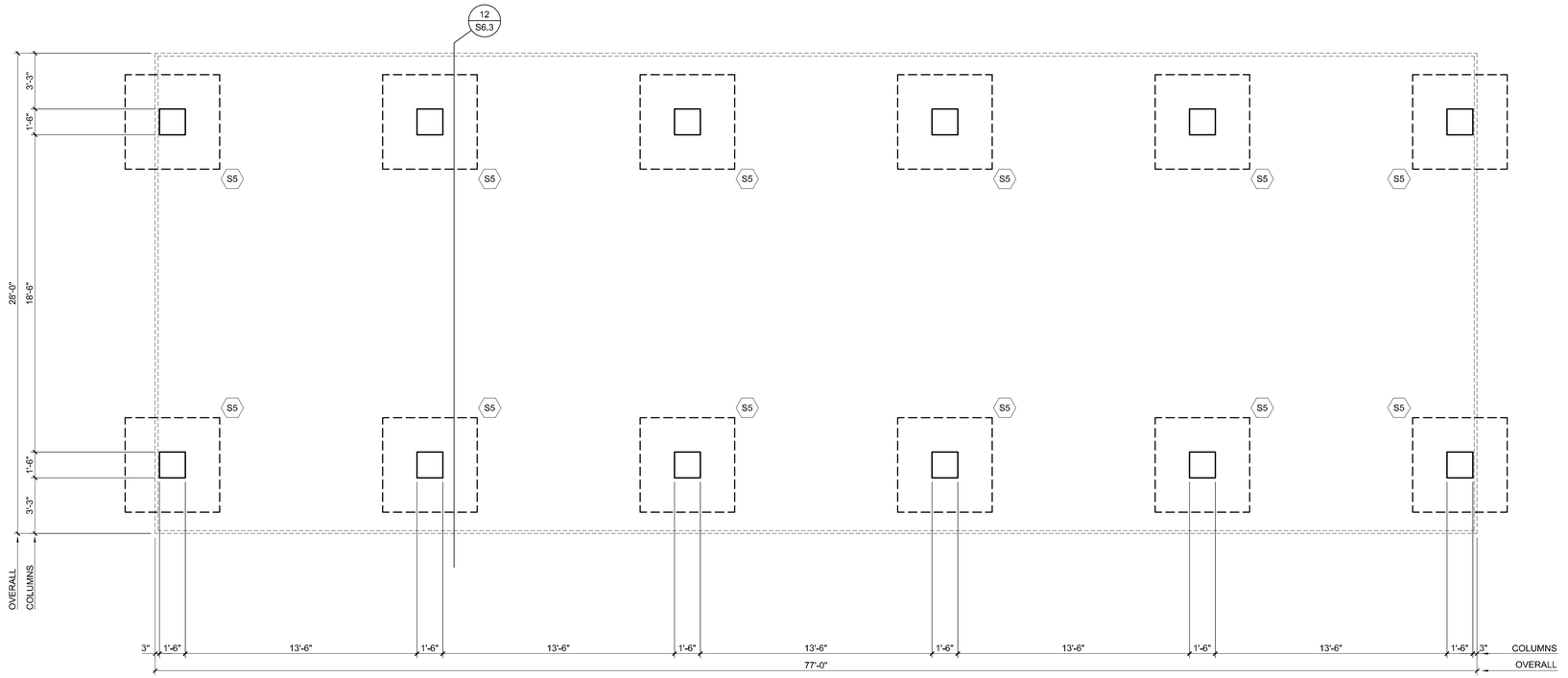


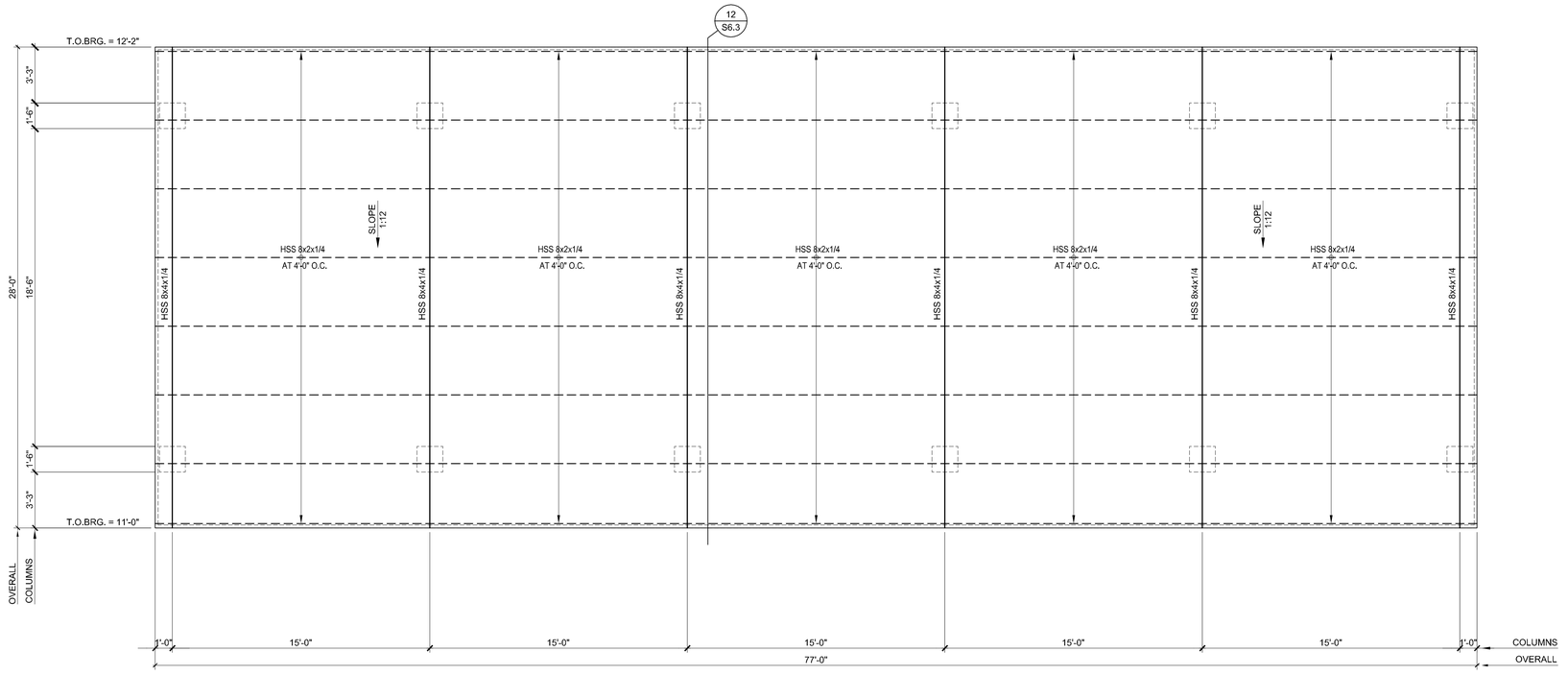
FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT, SEE DETAIL 6/S2.0

PLAN NORTH

FOUNDATION PLAN AT PARKING CANOPY

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



NOTE:
ALL EXPOSED EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED

FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. JOIST MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR JOISTS AS REQUIRED BY S.J.I.
5. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
7. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
8. 12" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 11 5/8".
9. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

PLAN NORTH

FOUNDATION PLAN AT PARKING CANOPY

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

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STATE OF TEXAS
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93127
LICENSED
PROFESSIONAL ENGINEER
2-25-14

PROJECT #: 13234
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LINN - SAN MANUEL EMERGENCY SERVICE FACILITY PRECINCT NO. 4

PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

Mata & Garcia ARCHITECTS L.L.P.
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SHEET: S6.4

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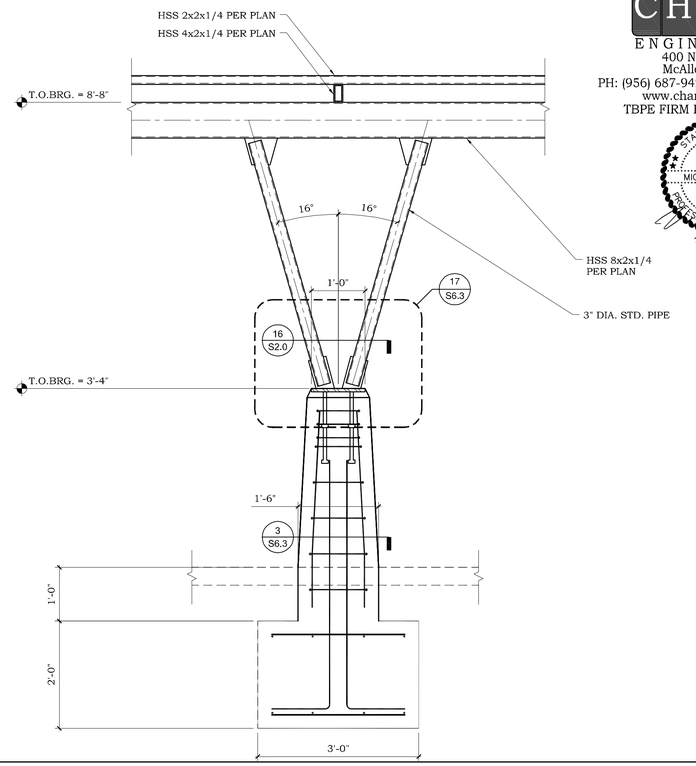
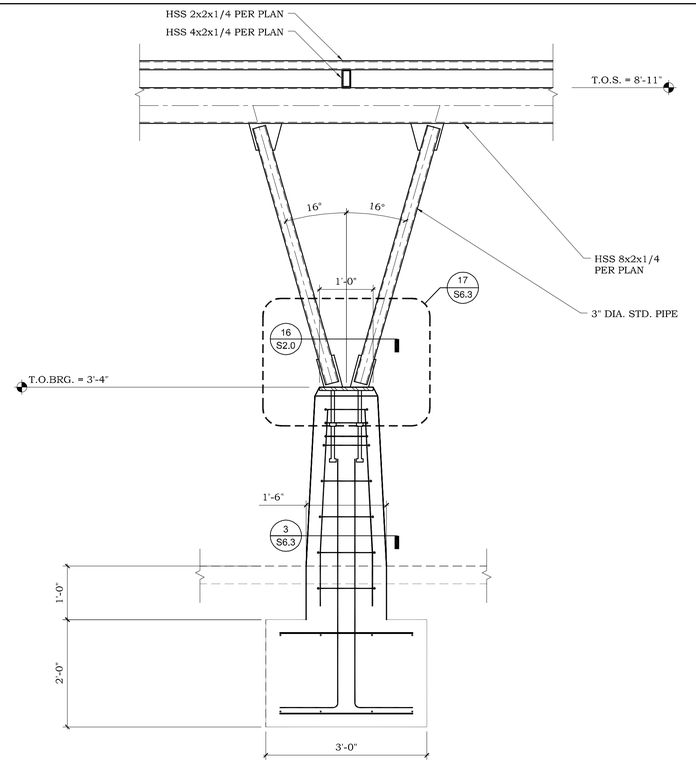
NOT USED	17	NOT USED	13	NOT USED	9		
NOT USED	18	NOT USED	14	NOT USED	10	CANOPY DETAIL	2
NOT USED	19	NOT USED	15	NOT USED	11		
NOT USED	20	NOT USED	16	NOT USED	12	CANOPY DETAIL	4





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STATE OF TEXAS
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2-25-14

PROJECT #: 13234
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LINN - SAN MANUEL EMERGENCY
SERVICE FACILITY PRECINCT NO. 4

PROJECT : LINN - SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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S6.5

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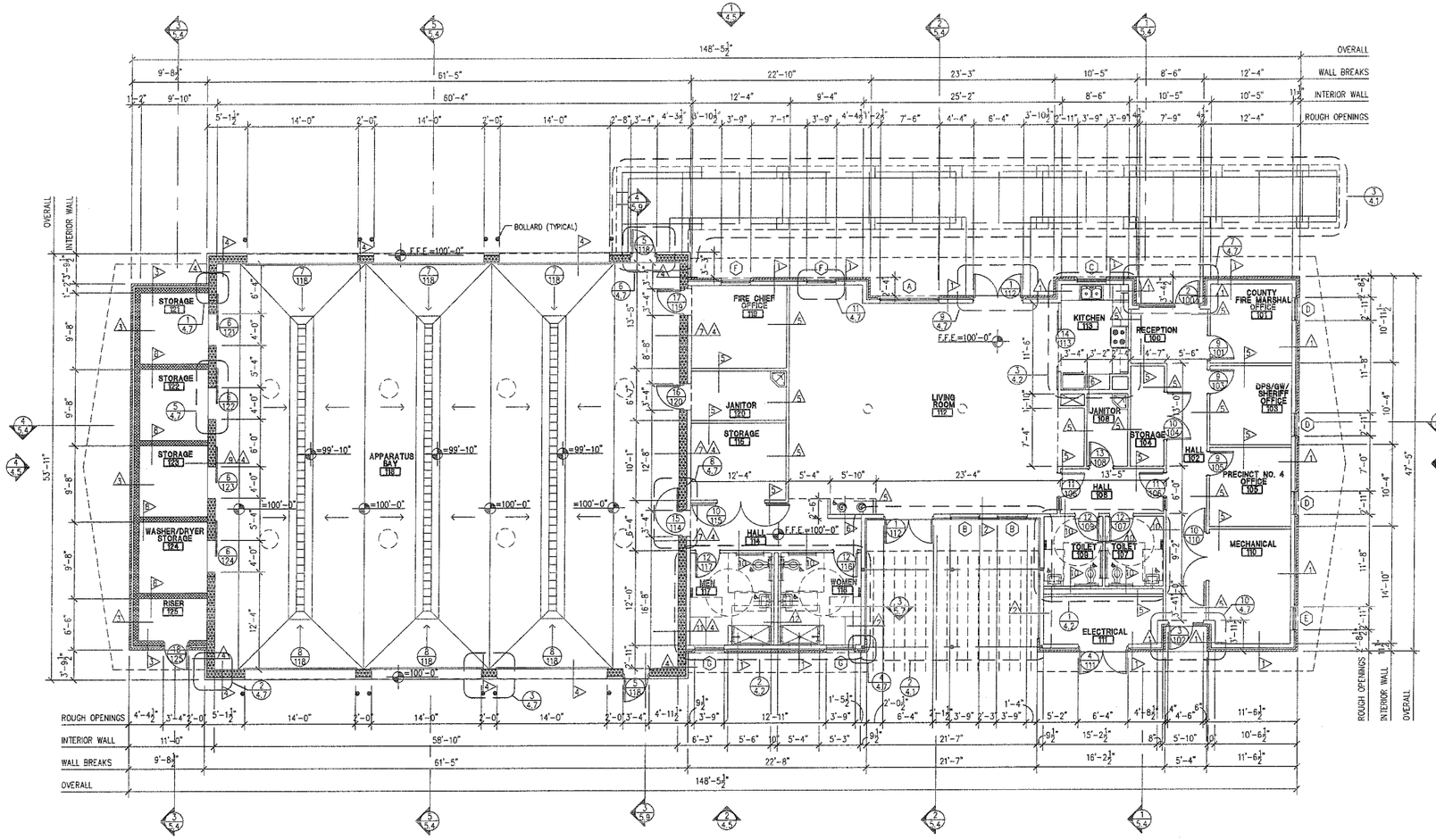
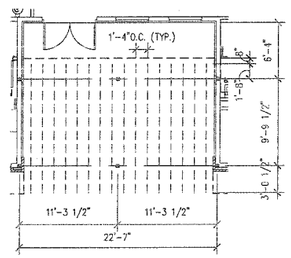
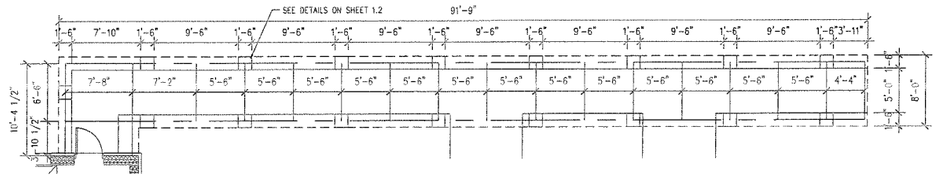


1 FLOOR PLAN
SCALE: 1/8"=1'-0"



2 PERGOLA PLAN
SCALE: 1/8"=1'-0"



3 CANOPY PLAN
SCALE: 1/8"=1'-0"

WALL TYPE LEGEND

EXTERIOR WALLS

1 — 11 1/2" — 6 5/16"
- CLAY BRICK VENEER
- WEATHER BARRIER
- 1/2" WOOD SHEATHING
- 2x6 WOOD STUD FRAMING AT 16" O.C.
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED

2 — 7 5/8" — INTERIOR
- HARDI-BOARD CEMENTITIOUS WOOD SIDING, FACTORY FINISHED
- FW-100 AIR WATER VAPOR BARRIER
- 3/4" WOOD SHEATHING
- 2x6 WOOD STUD FRAMING AT 16" O.C.
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED

3 — 1'-1 1/8" — 7 5/8" — 1/2" — INTERIOR
- CLAY BRICK VENEER
- 2" XPS INSULATION BOARD
- FW-100 AIR WATER VAPOR BARRIER
- 8" CMU WALL PAINTED

4 — 1'-3 1/4" — 11 5/8" — 1/2" — INTERIOR
- CORRUGATED METAL PANEL BASED ON 7.2 PANEL BY MBCI
- 2" XPS INSULATION BOARD
- 2" FURRING ZEES
- FW-100 AIR WATER VAPOR BARRIER
- 12" CMU WALL, PAINTED

INTERIOR WALLS

5 — 4 3/4"
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED
- 2x4 WOOD STUD FRAMING AT 16" O.C.

6 — 6 3/4"
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED
- 2x6 WOOD STUD FRAMING AT 16" O.C.

7 — 1'-5 1/8" — 11 5/8" — 5 1/2"
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED
- FW-100 AIR WATER VAPOR BARRIER
- 2x6 WOOD STUD FRAMING AT 16" O.C.
- 12" CMU WALL, PAINTED

8 — 7 5/8"
- 8" CMU WALL, PAINTED

9 — 11 5/8"
- 12" CMU WALL, PAINTED

PLUMBING WALLS

10 — 6 1/4"
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED
- 2x4 WOOD STUD FRAMING AT 16" O.C.
- 5/8" TYPE 'X' GYPSUM TILE BACKER BOARD, PAINTED
- TILE FINISH AS SCHEDULED

11 — 7 1/4"
- 5/8" TYPE 'X' GYPSUM WALL BOARD, PAINTED
- 2x6 WOOD STUD FRAMING AT 16" O.C.
- 5/8" TYPE 'X' GYPSUM TILE BACKER BOARD, PAINTED
- TILE FINISH AS SCHEDULED

12 — 1'-4" — 4 5/8" — 5/8" — 7" — CMU
- FINISH AS SCHEDULED
- 2x4 WOOD STUD FRAMING AT 16" O.C.
- 5/8" TYPE 'X' GYPSUM TILE BACKER BOARD, PAINTED
- TILE FINISH AS SCHEDULED

GENERAL NOTES:
1. ALL CERAMIC WALL TILE NEEDS TO BE BACKED WITH TYPE 'X' TILE BACKER BOARD. REFER TO ROOM FINISH SCHEDULE.
2. ALL INTERIOR FRAME WALL DIMENSIONS ARE TAKEN FROM FACE OF STUD.
3. SEE DETAIL 2/4.7 FOR WALL PANEL OUTSIDE CORNER CONDITION.
4. SEE DETAIL 1/4.7 FOR METAL PANEL INSIDE CORNER DETAIL.

PROJECT # 20.310
DATE:
DRAWN BY:
CHECKED BY: H.R.G.
REVISION:
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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/2014

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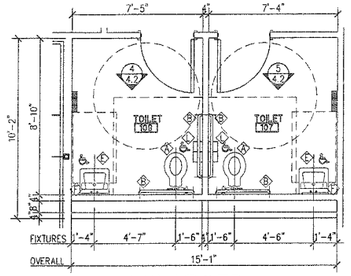
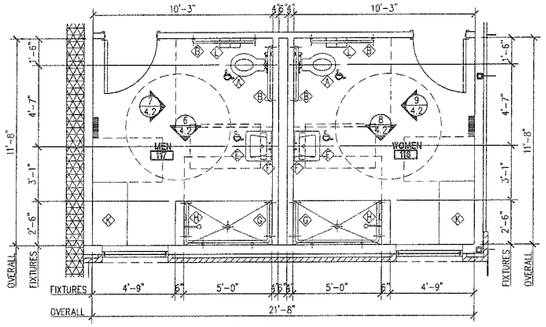
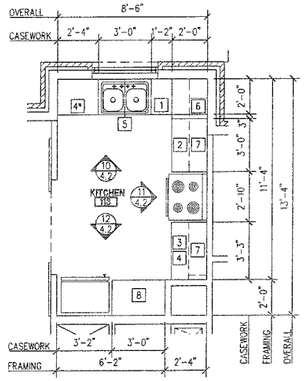


1 ENLARGED RESTROOM PLAN
SCALE: 1/4"=1'-0"



2 ENLARGED RESTROOM PLAN
SCALE: 1/4"=1'-0"



3 ENLARGED KITCHEN PLAN
SCALE: 1/4"=1'-0"

TAS FIXTURE LEGEND AND MOUNTING HEIGHTS FOR ADULTS

A	WATER CLOSET	TOP OF SEAT = 17" MIN., 19" MAX. FROM F.F. FLUSH CONTROLS NOT TO EXCEED 46" CENTER LINE = 16" MIN., 18" MAX. FROM FINISHED ADJACENT WALL
B	HORIZONTAL TOILET GRAB BAR	33" MIN., 36" MAX. FROM F.F. TO TOP OF OF GRIPPING SURFACE
C	WALL-HUNG LAVATORY	34" MAX. FROM F.F. TO TOP OF RIM WITH A MINIMUM KNEE CLEARANCE OF 27" 20" MAX. FROM FRONT EDGE OF COUNTER TO FAUCET TO FAUCET
F	MIRROR (MOUNTED ABOVE LAVATORY)	40" MAX. FROM F.F. TO BOTTOM OF REFLECTIVE SURFACE (NOT MIRROR FRAME)
G	HORIZONTAL SHOWER GRAB BAR	33" MIN., 36" MAX. FROM F.F. TO TOP OF GRIPPING SURFACE
H	HAND SHOWER HEAD MOUNTING	48" MAX. FROM F.F. TO HIGHEST OPERABLE PART OF UNIT
K	DRESSING BENCH	1'-7" MAX. FROM F.F. TO TOP OF BENCH
L	MULTI-ROLL TOILET TISSUE DISPENSER	17" MIN., 24" MAX FROM F.F. TO OUTLET OF DISPENSER 7" MIN., 9" MAX FROM CENTER LINE TO FRONT OF BOWL
M	WALL MOUNTED SOAP DISPENSER	48" MAX. FROM F.F. TO HIGHEST OPERABLE PART OF UNIT
S	ELECTRIC DRINKING FOUNTAIN	36" MAX. FROM F.F. TO BUBBLER JET A MINIMUM KNEE CLEARANCE OF 27"

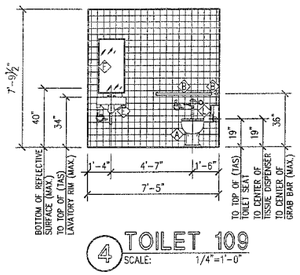
CASEWORK SCHEDULE

NO.	FIXTURE	W" X D" X H"	REMARKS
1	BASE CABINET	14" X 24" X 34"	–
2	BASE CABINET	36" X 24" X 34"	–
3	PORTABLE CABINET	36" X 24" X 32"	ON CASTERS
4	BASE OPENING	39" X 24" X 34"	–
4*	BASE OPENING	28" X 24" X 34"	FOR DISHWASHER
5	SINK BASE (ADA)	36" X 24" X 34"	–
6	WALL CABINET	14" X 12" X 32"	–
7	WALL CABINET	36" X 12" X 32"	–
8	PANTRY CABINET	38" X 24" X 84"	–

CASEWORK LEGEND AND GENERAL NOTES

X CASEWORK TYPE, REFER TO CASEWORK SCHEDULE.

1. IF NO CASEWORK WIDTH DESIGNATION IS GIVEN ON FIXTURE PLAN REFER TO CASEWORK SCHEDULE FOR TOTAL CASEWORK DIMENSIONS.
2. PROVIDE FILLER PIECES AS REQUIRED AT ALL CABINETS AND COUNTERTOPS.
3. UPPER WALL CABINETS TO BE MOUNTED ON WALL WITH TOP OF CABINET AT 84" A.F.F. OTHERWISE NOTED.
4. ALL COUNTERTOPS AND SPLASHES TO BE PLASTIC LAMINATE, UNLESS OTHERWISE NOTED ON FIXTURE PLAN.
5. ALL CABINET DOORS AND DRAWERS TO BE LOCKABLE.
6. FIELD VERIFY ALL DIMENSIONS.
7. MODEL NUMBERS SHOWN ARE REFERENCED FROM SOUTH TEXAS WOODMILL ARCHITECTURAL CASEWORK CATALOG.
8. AT CORNER LOCATION MARKED WITH AN 'X' ON A PLAN, PROVIDE LARGER OF THE TWO UNITS WITH ACCESS ON TWO SIDE



4 TOILET 109
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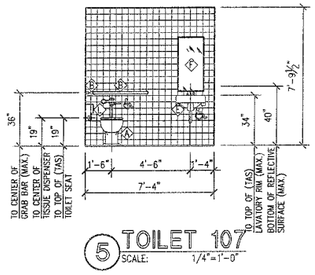

5 TOILET 107
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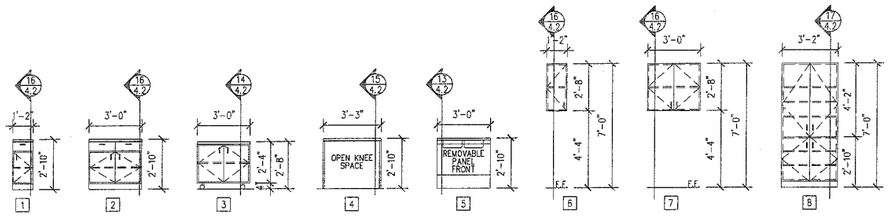
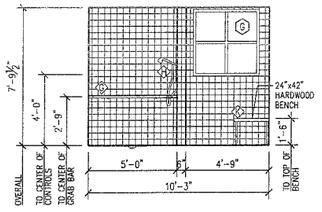
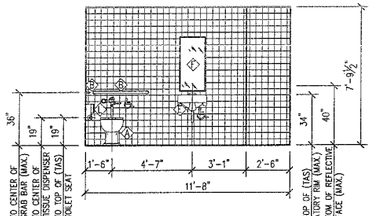




6 MEN 117
SCALE: 1/4"=1'-0"



7 MEN 117
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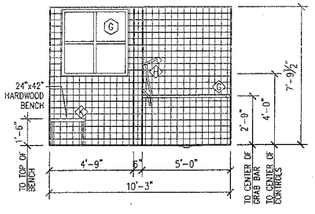

8 WOMEN 116
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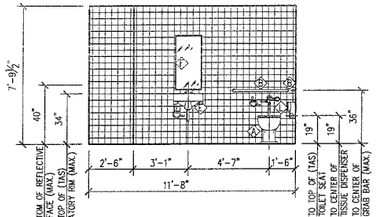

9 WOMEN 116
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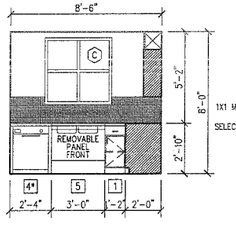
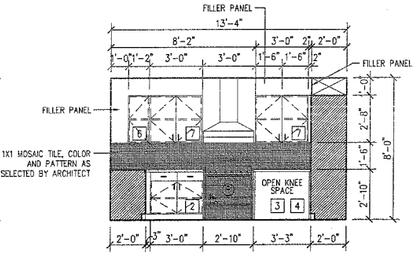
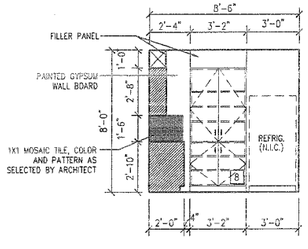


10 KITCHEN 113
SCALE: 1/4"=1'-0"



11 KITCHEN 113
SCALE: 1/4"=1'-0"



12 KITCHEN 113
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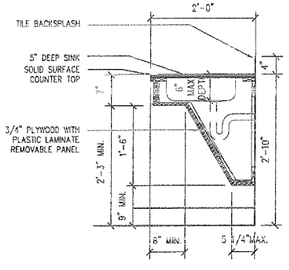
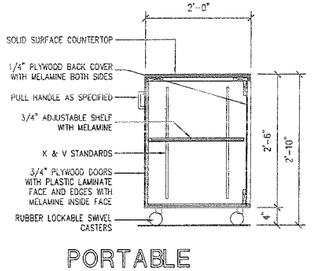
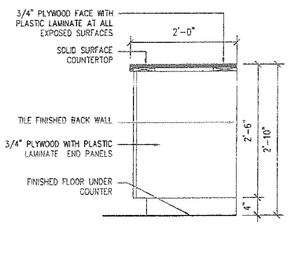


13 SINK DETAIL
SCALE: 3/4" = 1'-0"



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



15 BASE OPENING
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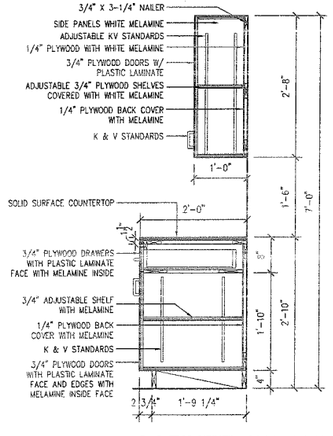
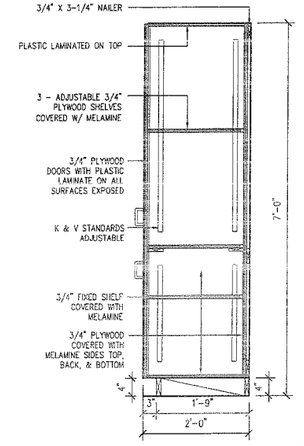


16 CABINET DETAIL
SCALE: 3/4" = 1'-0"



17 PANTRY CABINET
SCALE: 3/4" = 1'-0"

PROJECT #: 201310
DATE:
DRAWN BY:
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4
PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/2014

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1314 West Ivy Avenue McAllen, Texas 78501
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SHEET: 4.2

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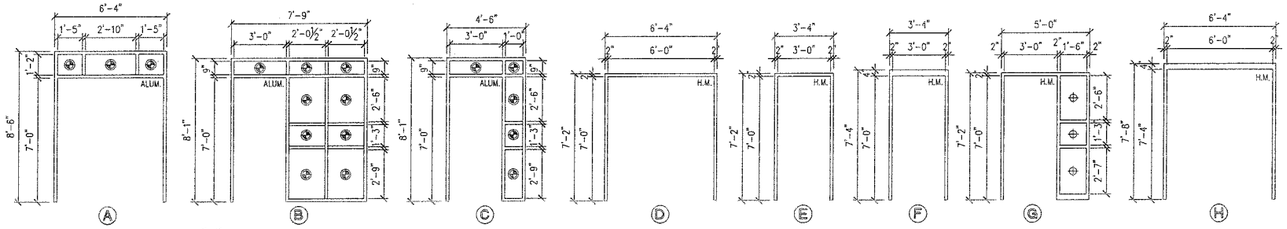

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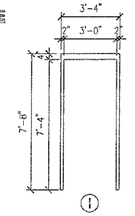
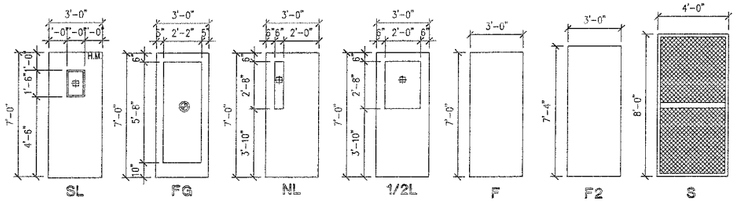
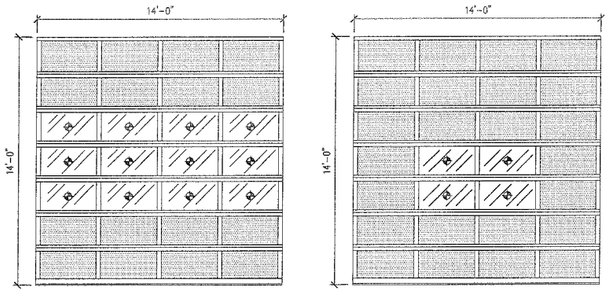
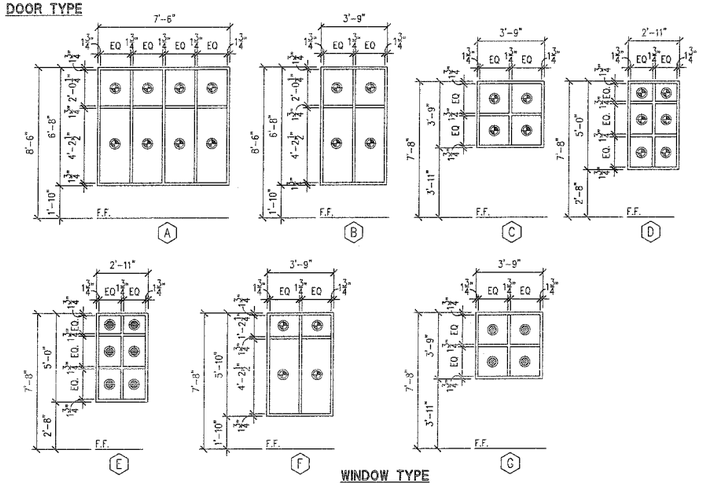




DOOR TYPE



OVERHEAD DOOR TYPE



WINDOW TYPE

WINDOW SCHEDULE

WINDOW MARK	WIDTH	HEIGHT	FRAME	GLASS	RATING	REMARKS
A	8'-0"	6'-8"	ALUMINUM	TINTED, INSULATED LOW-E		
B	3'-9"	6'-8"	ALUMINUM	TINTED, INSULATED LOW-E		
C	3'-9"	3'-9"	ALUMINUM	TINTED, INSULATED LOW-E		
D	2'-11"	5'-0"	ALUMINUM	TINTED, INSULATED LOW-E		
E	2'-11"	5'-0"	ALUMINUM	SPANDREL, REFLECTIVE, INSULATED		
F	3'-9"	5'-10"	ALUMINUM	TINTED, INSULATED LOW-E		
G	2'-11"	3'-9"	ALUMINUM	FROSTED GLASS, INSULATED		

NOTE:
1. ALL EXTERIOR GLAZING SHALL BE TINTED LOW-E GLASS, UNLESS NOTED OTHERWISE
2. LOW-E GLAZING COLOR AND TYPE TO BE SELECTED BY ARCHITECT, AND REFERENCED TO SOLARBAN R-100 LINE IN PPG CATALOG
3. ALL EXTERIOR ALUMINUM FRAMES SHALL BE ANODIZED, COLOR TO BE SELECTED BY ARCHITECT
4. ALL FRAMES ARE TO RECEIVE ELASTOMERIC SEALANT ON THE EXTERIOR AND CAULKING ON THE INTERIOR.
5. ALL FRAMES ARE TO RECEIVE ASPHALTIC TAPE FLASHING, COMPATIBLE WITH SPECIFIED AIR WATER VAPOR BARRIER, INSTALLED PER MANUF. RECOMMENDATIONS.

ROOM FINISH SCHEDULE

No.	DESCRIPTION	BASE	FLOOR	WALLS				CEILING	HEIGHT	REMARKS
				NORTH	EAST	SOUTH	WEST			
100	RECEPTION	B-1	F-1	W-1	W-1	W-1	W-1	C-7	8'-0"	
101	COUNTY FIRE MARSHAL OFFICE	B-1	F-1	W-1	W-1	W-1	W-1	C-1	8'-0"	
102	HALL	B-1	F-1	W-1	W-1	W-1	W-1	C-7	8'-0"	
103	DPS/GW/SHERIFF OFFICE	B-1	F-1	W-1	W-1	W-1	W-1	C-1	8'-0"	
104	STORAGE	B-1	F-1	W-1	W-1	W-1	W-1	C-1	8'-0"	
105	PRECINCT NO. 4 OFFICE	B-1	F-1	W-1	W-1	W-1	W-1	C-1	8'-0"	
106	HALL	B-1	F-1	W-1	W-1	W-1	W-1	C-7	8'-0"	
107	TOILET	B-2	F-3	W-3	W-3	W-3	W-3	C-3	7'-9 1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
108	JANITOR	B-1	F-1	W-1	W-1	W-1	W-1	C-3	8'-0"	
109	TOILET	B-2	F-3	W-3	W-3	W-3	W-3	C-3	7'-9 1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
110	MECHANICAL	B-1	F-2	W-1	W-1	W-1	W-1	C-8	8'-0"	
111	ELECTRICAL	B-1	F-2	W-1	W-1	W-1	W-1	C-1	8'-0"	
112	LIVING ROOM	B-1	F-1	W-1	W-1	W-1	W-1	C-2	10'-0"	
113	KITCHEN	B-1	F-1	W-1	W-1	W-1	W-1	C-1	8'-0"	
114	HALL	B-1	F-1	W-1	W-1	W-1	W-1	C-1	8'-0"	
115	STORAGE	B-1	F-1	W-1	W-1	W-1	W-1	C-7	8'-0"	
116	WOMEN	B-2	F-3	W-3	W-3	W-3	W-3	C-3	7'-9 1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
117	MEN	B-2	F-3	W-3	W-3	W-3	W-3	C-3	7'-9 1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
118	APPARATUS BAY	B-1	F-2	W-2	W-2	W-2	W-2	C-6	20' TO 25'	PAINTED STRUCTURE, METAL DECKING AND CONDUIT
119	FIRE CHIEF OFFICE	B-1	F-2	W-1	W-1	W-1	W-1	C-1	8'-0"	
120	JANITOR	B-1	F-2	W-1	W-1	W-1	W-1	C-8	8'-0"	
121	STORAGE	B-1	F-2	W-2	W-2	W-2	W-2	C-3	9'-10"	
122	STORAGE	B-1	F-2	W-2	W-2	W-2	W-2	C-3	9'-10"	
123	STORAGE	B-1	F-2	W-2	W-2	W-2	W-2	C-3	9'-10"	
124	WASHER/DRYER STORAGE	B-1	F-2	W-2	W-2	W-2	W-2	C-3	9'-10"	
125	RISER ROOM	--	F-2	W-2	W-2	W-2	W-2	C-3	9'-10"	

MATERIAL LEGEND

BASE		FLOOR		WALLS		CEILING	
MARK	MATERIAL	MARK	MATERIAL	MARK	MATERIAL	MARK	MATERIAL
B-1	RUBBER COVE BASE	F-1	VINYL COMPOSITION TILE	W-1	GYPSUM BOARD PAINTED	C-1	SUSPENDED ACOUSTICAL TILE 1
B-2	CERAMIC TILE	F-2	SEALED CONCRETE (EXPOSED)	W-2	PAINTED CMU	C-2	SUSPENDED GYPSUM BOARD
		F-3	2 X 2 CERAMIC TILE	W-3	4-1/4"X4-1/4" CERAMIC TILE	C-3	SUSPENDED MOISTURE RESISTANT GYPSUM BOARD
		F-4	-----	W-4	-----	C-4	CEMENT PLASTER SOFFIT
						C-5	FIBER CEMENT SOFFIT
						C-6	EXPOSED PAINTED STRUCTURE
						C-7	SUSPENDED ACOUSTICAL TILE 1 1-HOUR FIRE RATED
						C-8	SUSPENDED MOISTURE RESISTANT BOARD, 1-HOUR FIRE RATED

DOOR AND FRAME SCHEDULE

DOOR							FRAME				SPACE TYPE	REMARKS
DOOR MARK	WIDTH	HEIGHT	TYPE	GLASS	FACING	RATING	MATERIAL	WIDTH	HEIGHT	TYPE	RATING	
1	3'-0" PAIR	7'-0"	FG	LOW-E SAFETY	ALUMINUM	---	ALUMINUM	6'-4"	8'-6"	A	EXT.	
2	3'-0"	7'-0"	FG	LOW-E SAFETY	ALUMINUM	---	ALUMINUM	7'-9"	8'-1"	B	EXT.	
3	3'-0"	7'-0"	FG	LOW-E SAFETY	ALUMINUM	---	ALUMINUM	4'-6"	8'-1"	C	EXT.	
4	3'-0" PAIR	7'-4"	F2	---	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	6'-4"	7'-8"	H	UTILITY	
5	3'-0"	7'-0"	1/2L	LOW-E SAFETY	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	3'-4"	7'-4"	F	EXT.	
6	4'-0"	8'-0"	S	---	WIRE MESH	---	STEEL	---	---	---	EQUIP. STR	ELECTRIC SLIDING DOOR OPENER
7	14'-0"	14'-0"	OHD-1	SAFETY	ALUMINUM	---	ALUMINUM	---	---	---	GARAGE	
8	14'-0"	14'-0"	OHD-2	SAFETY	ALUMINUM	---	ALUMINUM	---	---	---	GARAGE	
9	3'-0"	7'-0"	NL	SAFETY	P.LAM	20 MIN	HOLLOW METAL	3'-4"	7'-2"	E	OFFICE	
10	3'-0" PAIR	7'-0"	F	---	P.LAM	45 MIN	HOLLOW METAL	6'-4"	7'-2"	D	STORAGE	
11	3'-0"	7'-0"	NL	SAFETY	P.LAM	20 MIN	HOLLOW METAL	5'-0"	7'-2"	G	EGRESS	
12	3'-0"	7'-0"	F	---	P.LAM	---	HOLLOW METAL	3'-4"	7'-2"	E	RR	
13	3'-0"	7'-0"	F	---	P.LAM	20 MIN	HOLLOW METAL	3'-4"	7'-2"	E	JANITOR	
14	3'-0"	7'-0"	SL	SAFETY	P.LAM	---	---	---	---	---	KITCHEN	SLIDING BARN DOOR
15	3'-0"	7'-0"	NL	FIRE RATED	HOLLOW METAL	90 MIN	HOLLOW METAL	3'-4"	7'-4"	F	90. EGRESS	
16	3'-0"	7'-0"	F	FIRE RATED	HOLLOW METAL	90 MIN	HOLLOW METAL	3'-4"	7'-4"	F	90. JANITOR	
17	3'-0"	7'-0"	1/2L	FIRE RATED	HOLLOW METAL	90 MIN	HOLLOW METAL	3'-4"	7'-4"	F	90. OFFICE	
18	3'-0"	7'-4"	F2	---	HOLLOW METAL	---	HOLLOW METAL	3'-4"	7'-8"	I	RISER RM.	

NOTE:
1. ALL EXTERIOR GLAZING SHALL BE TINTED LOW-E GLASS, UNLESS NOTED OTHERWISE
2. LOW-E GLAZING COLOR AND TYPE TO BE SELECTED BY ARCHITECT, AND REFERENCED TO SOLARBAN R-100 LINE IN PPG CATALOG
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5. ALL FRAMES ARE TO RECEIVE ASPHALTIC TAPE FLASHING, COMPATIBLE WITH SPECIFIED AIR WATER VAPOR BARRIER, INSTALLED PER MANUF. RECOMMENDATIONS.
6. ALUMINUM THRESHOLDS ARE REQUIRED AT ALL EXTERIOR DOORS.
7. SEE REFLECTED CEILING PLAN (SHEET 6.1 & 6.2) TO VERIFY WALLS REQUIRING RATED GLASS ASSEMBLIES
8. ALL ROUGH OPENINGS MUST BE FIELD VERIFIED PRIOR TO FABRICATION.
9. GENERAL CONTRACTOR MUST COORDINATE SIZE REQUIREMENTS OF ALL ROUGH OPENINGS WITH DOOR FRAME MANUFACTURER PRIOR TO ROUGH IN.
10. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PLANS AND WALL TYPE LEGEND TO VERIFY FRAME THICKNESS REQUIREMENTS PRIOR TO FABRICATION
11. SEE REFLECTED CEILING PLAN (SHEET 6.1 & 6.2) FOR RATED WALLS REQUIRING 20 AND 45 MINUTE FIRE RATED DOOR & FRAME ASSEMBLIES.

GLAZING LEGEND

	SAFETY GLASS
	RATED WIRE GLASS
	TINTED SAFETY GLASS
	LOW-E INSULATED GLASS
	INSULATED SPANDREL GLASS
	INSULATED SAFETY PRIVACY GLASS

PROJECT #: 201310
DATE:
DRAWN BY:
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

PROJECT: LINN - SAN MANUEL EMERGENCY SERVICES FACILITY PRECINCT NO. 4
OWNER: LINN-SAN MANUEL, TEXAS
HIDALGO COUNTY

REGISTERED ARCHITECT HECTOR RENE GARCIA 13961 STATE OF TEXAS
HECTOR R. GARCIA 13961
LICENSE EXPIRES 03/31/2014

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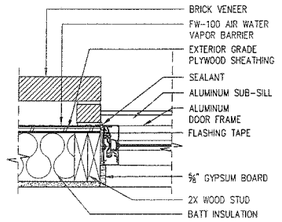
SHEET: 4.3



1 JAMB DETAIL
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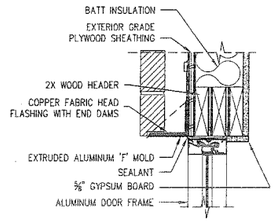
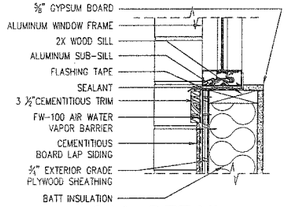
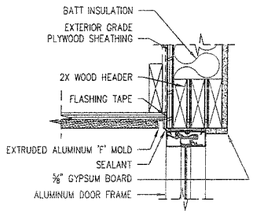


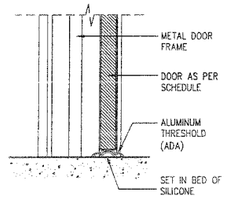
2 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"



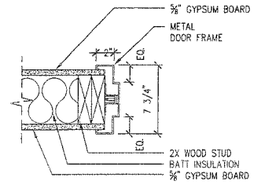
3 SILL DETAIL
SCALE: 1-1/2"= 1'-0"



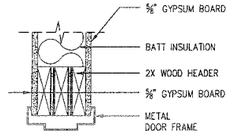
4 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"



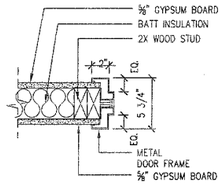
5 THRESHOLD
SCALE: 1-1/2"= 1'-0"



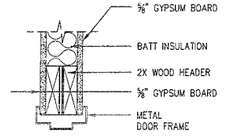
6 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



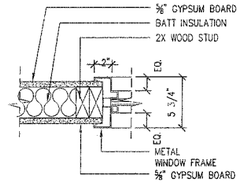
7 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



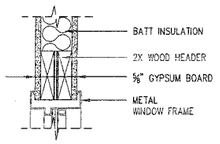
8 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



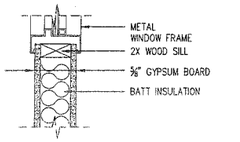
9 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



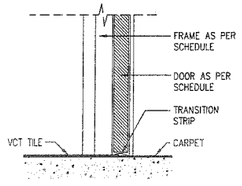
10 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"



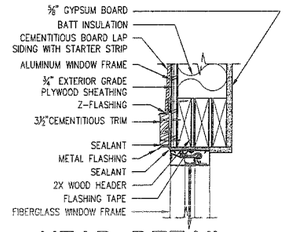
11 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"



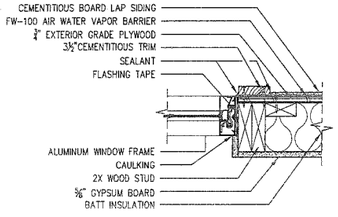
12 SILL DETAIL
SCALE: 1-1/2"= 1'-0"



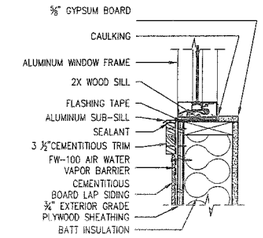
13 BASE DETAIL
SCALE: 1-1/2"= 1'-0"



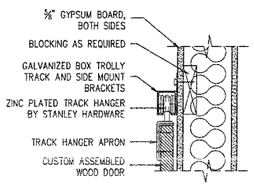
14 HEAD DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: ALUMINUM WINDOW AT FCP SIDING



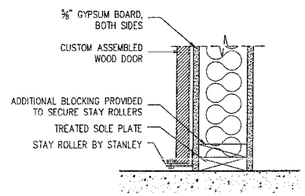
15 JAMB DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: ALUMINUM WINDOW AT FCP SIDING



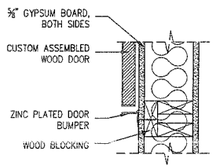
16 SILL DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: ALUMINUM WINDOW AT FCP SIDING



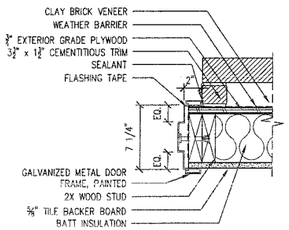
17 HEAD DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT BARN DOOR



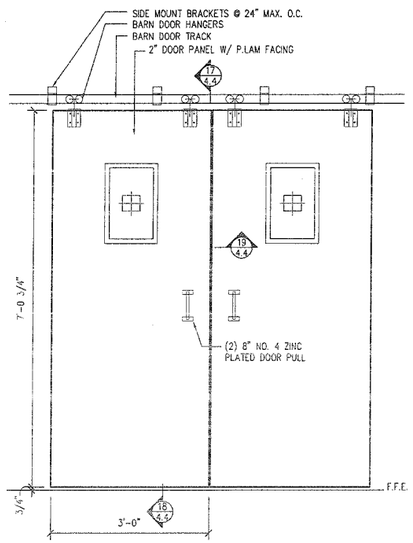
18 BASE DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: BASE DETAIL AT BARN DOOR



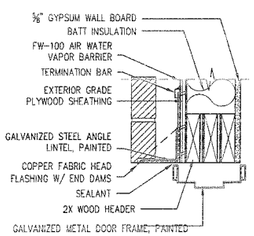
19 JAMB DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: JAMB DETAIL AT BARN DOOR



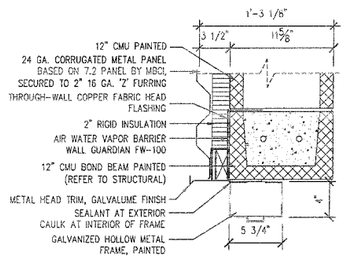
20 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: EXT. H.M. DOOR FRAME AT BRICK VENEER



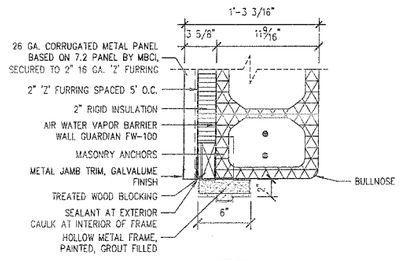
REF:
25 ROLLING BARN DOOR ELEVATION
SCALE: 3/4"=1'-0"



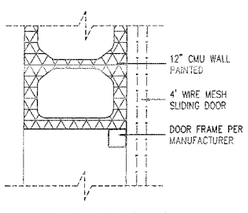
21 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: EXT. H.M. DOOR FRAME AT BRICK VENEER



HOLLOW METAL DOOR HEAD DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: EXT. H.M. DOOR FRAME AT METAL PANEL



HOLLOW METAL DOOR JAMB DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: EXT. H.M. DOOR FRAME AT METAL PANEL



WIRE MESH DOOR JAMB DETAIL
SCALE: 1-1/2"=1'-0"
NOTE: JAMB DETAIL AT WIRE MESH DOOR

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

HECTOR RENE GARCIA 13960 LICENSED ARCHITECT
HECTOR R. GARCIA
LICENSE EXPIRES 03/31/2014

Mata & Garcia
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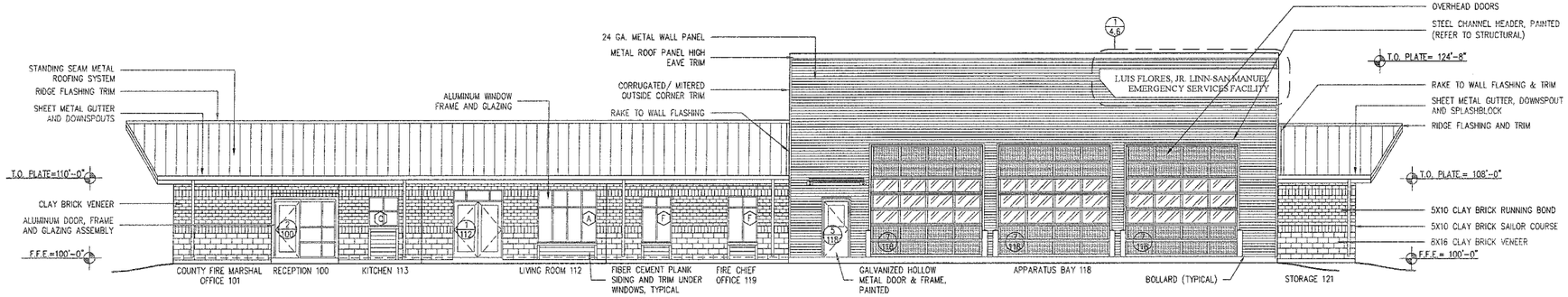
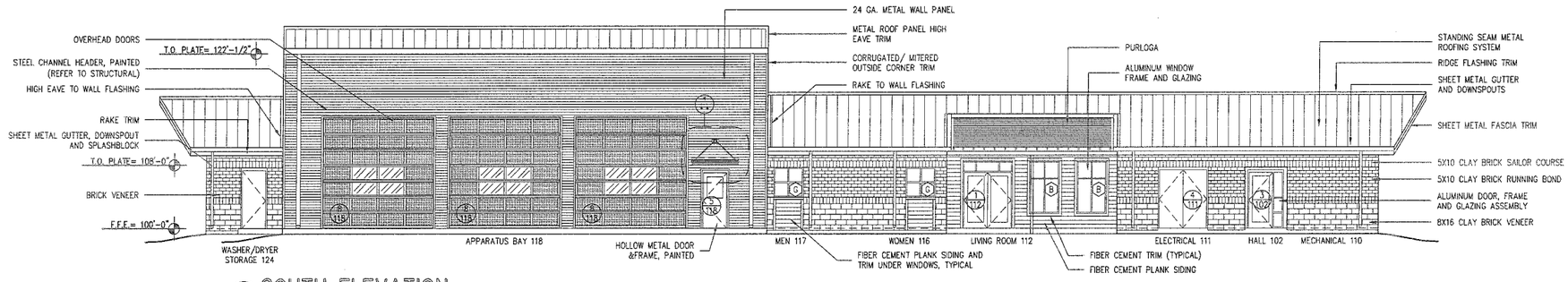
SHEET: 4.4



1 NORTH ELEVATION

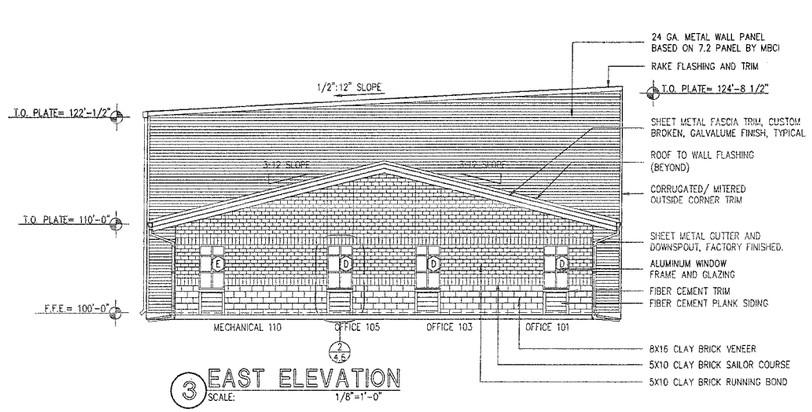
SCALE: 1/8"=1'-0"

NOTE: WALKWAY CANOPY NOT SHOWN FOR CLARITY.



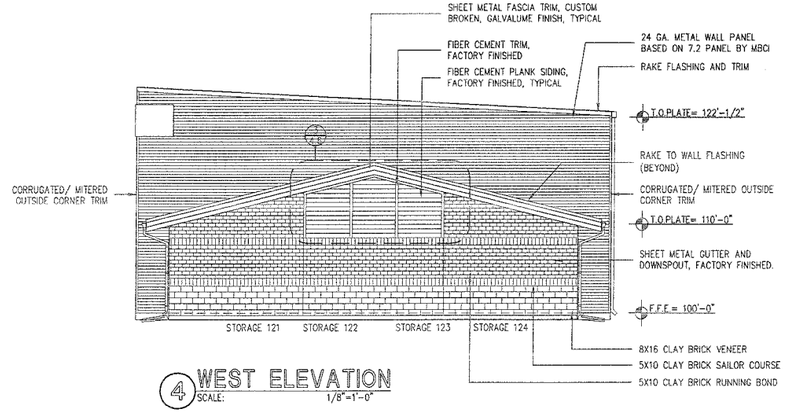
2 SOUTH ELEVATION

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



3 EAST ELEVATION

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



4 WEST ELEVATION

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

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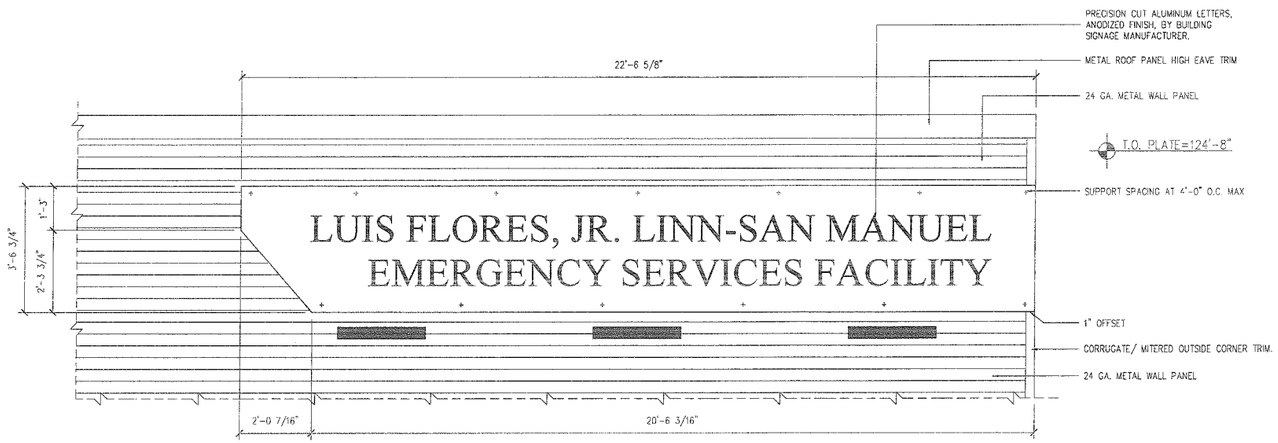
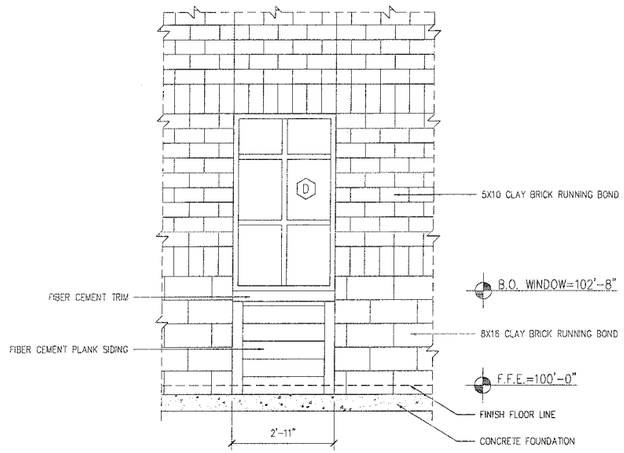
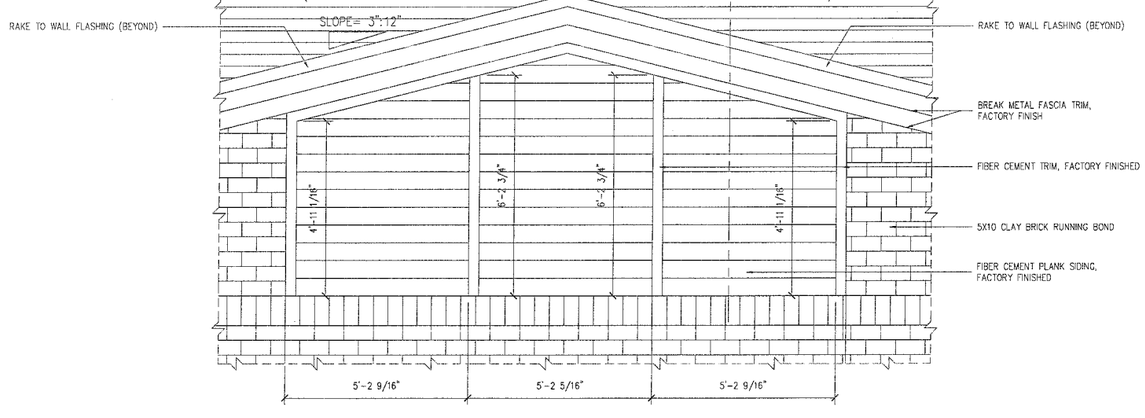
SHEET: 4.5



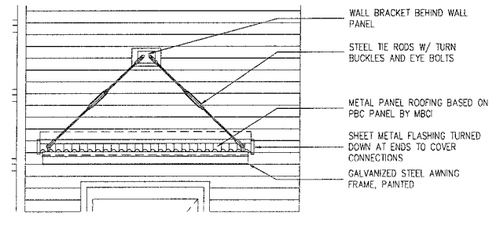
1 BUILDING SIGNAGE
SCALE: 1/2"=1'-0"



2 OFFICE 105 EAST ELEVATION WINDOW
SCALE: 1/2"=1'-0"



3 WEST ELEVATION GABLE DETAIL
SCALE: 1/2"=1'-0"



4 AWNING ELEVATION DETAIL
SCALE: 1/2"=1'-0"

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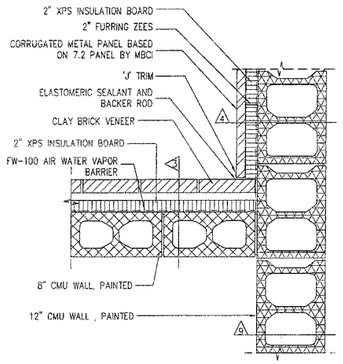
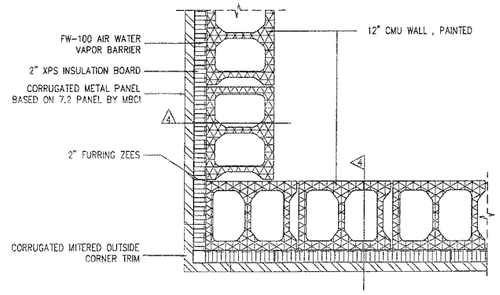
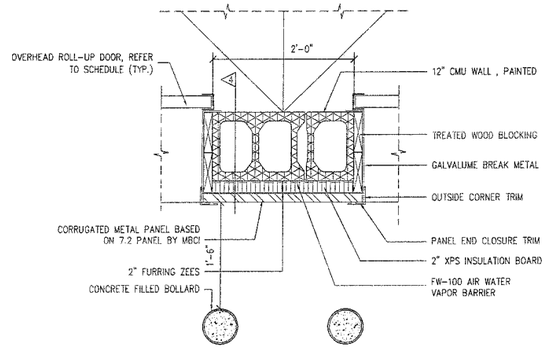


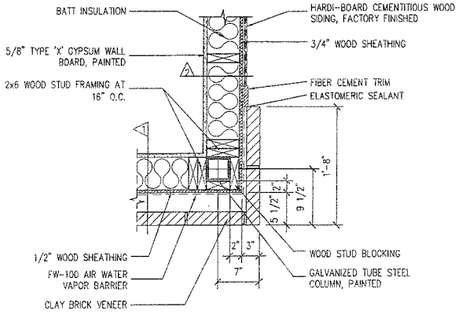
RE: 1 PLAN DETAIL SCALE: 1/2"=1'-0"



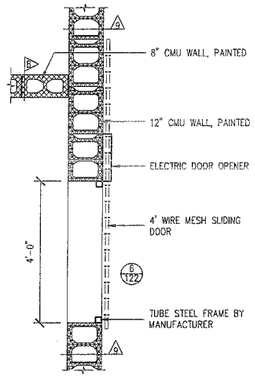
RE: 2 PLAN DETAIL SCALE: 1/2"=1'-0"



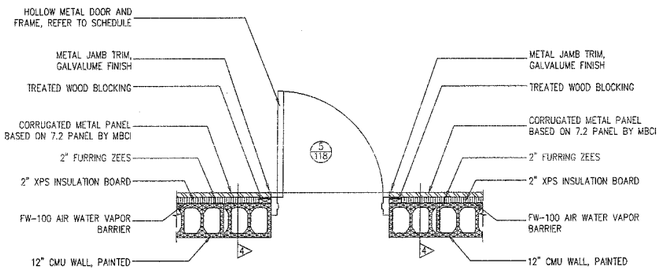
RE: 3 PLAN DETAIL SCALE: 1/2"=1'-0"



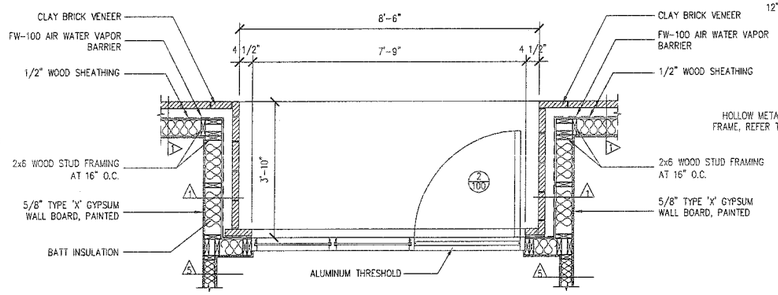
RE: 4 PLAN DETAIL SCALE: 1/2"=1'-0"



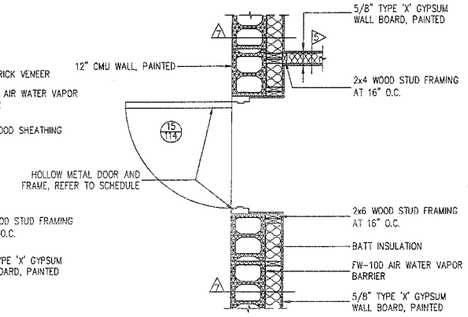
RE: 5 PLAN DETAIL SCALE: 1/2"=1'-0"



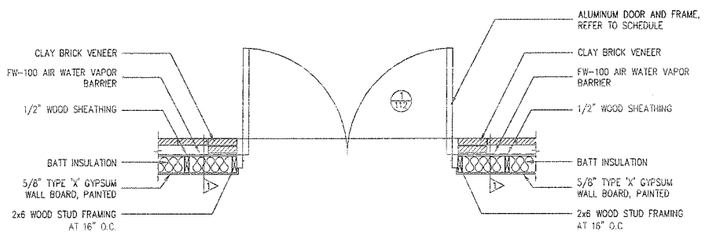
RE: 6 PLAN DETAIL SCALE: 1/2"=1'-0"



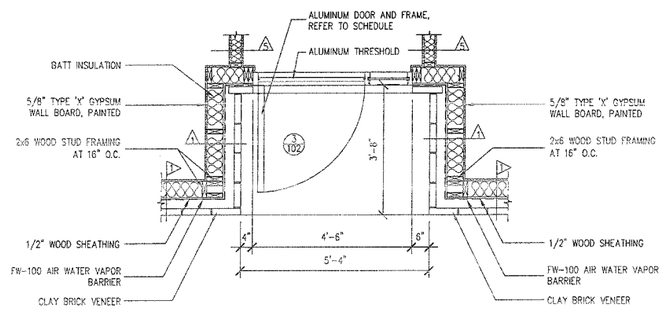
RE: 7 PLAN DETAIL SCALE: 1/2"=1'-0"



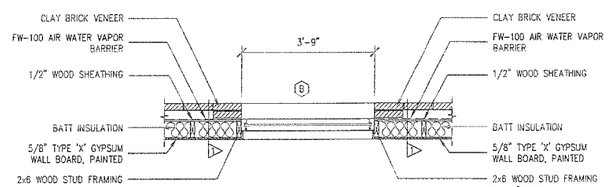
RE: 8 PLAN DETAIL SCALE: 1/2"=1'-0"



RE: 9 PLAN DETAIL SCALE: 1/2"=1'-0"



RE: 10 PLAN DETAIL SCALE: 1/2"=1'-0"



RE: 11 PLAN DETAIL SCALE: 1/2"=1'-0"

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Hector Rene Garcia R.A. Partner
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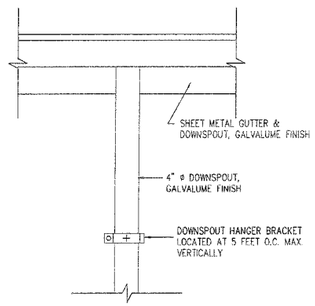
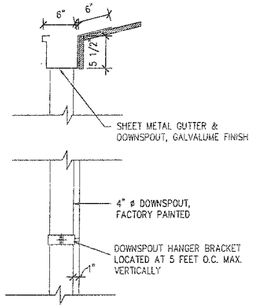
Tel.: (956) 631-1915 Fax.: (956) 631-1868

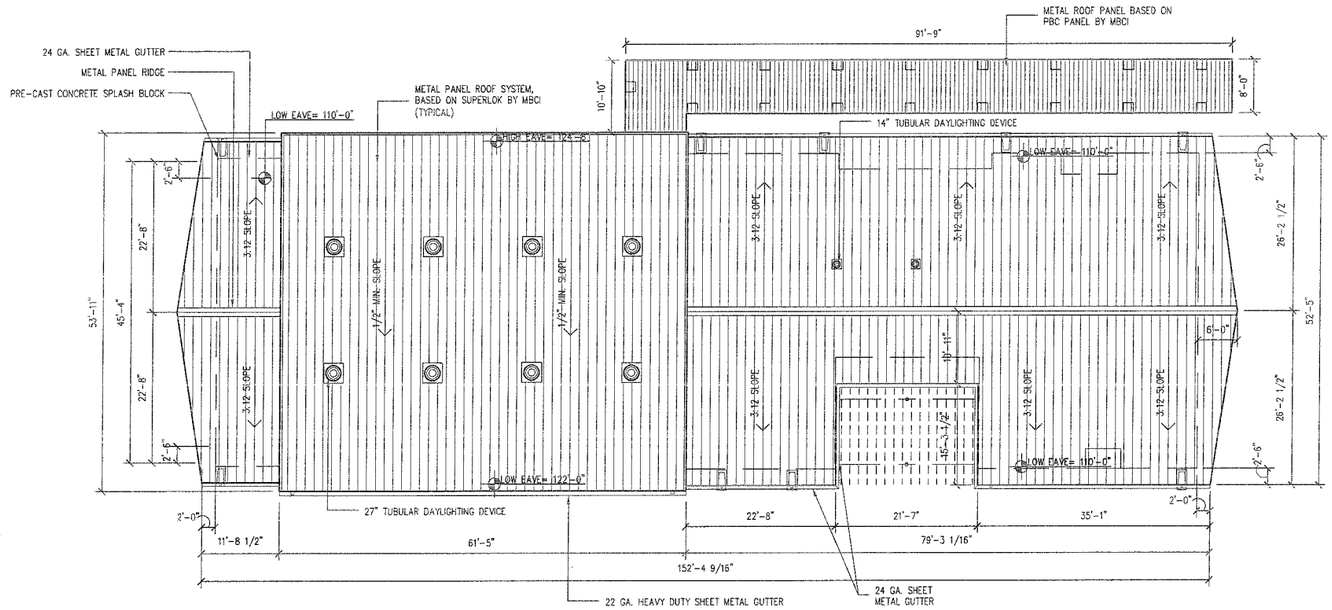
SHEET: 4.7



RE: GUTTER & LEADER HEAD
2 SCALE: 1"=1'-0"



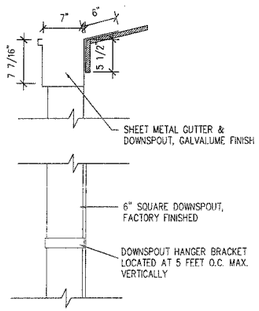
RE: GUTTER & LEADER HEAD SECTION
3 SCALE: 1"=1'-0"



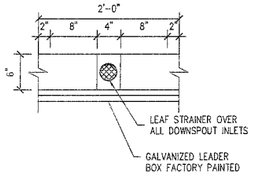
1 SCALE: 1/8"=1'-0"

ROOF PLAN

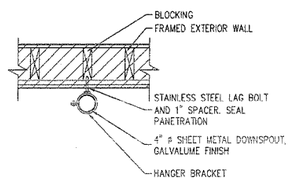
GENERAL NOTES:
1. WOOD PURLIN MEMBERS AT PERGOLA NOTE SHOWN FOR CLARITY.



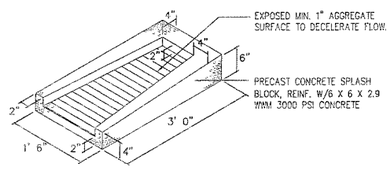
RE: GUTTER & LEADER HEAD SECTION
4 SCALE: 1"=1'-0"



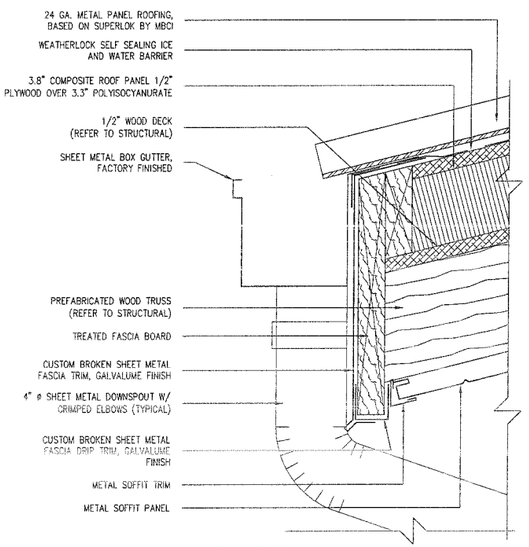
RE: PLAN GUTTER INLET AT DOWNSPOUT
5 SCALE: 1"=1'-0"



RE: PLAN DOWNSPOUT
6 SCALE: 1"=1'-0"

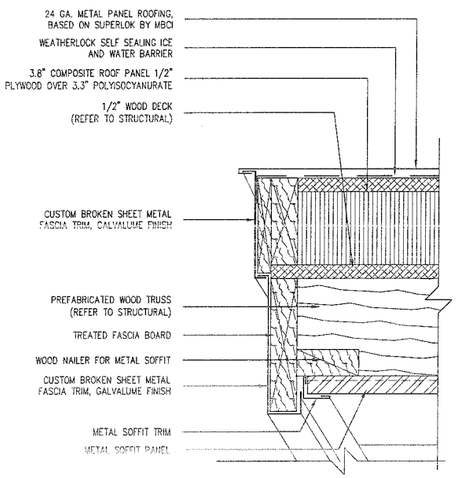


RE: SQUARE PRECAST SPLASHBLOCK ISOMETRIC
7 SCALE: 1"=1'-0"



RE: 1/5.10, 1/5.5, 1/5.4
8 SCALE: 3"=1'-0"

SECTION DETAIL AT LOW EAVE & GUTTER



RE: 1/5.11, 9/5.10, 2/5.7, 3/5.8
9 SCALE: 3"=1'-0"

SECTION DETAIL AT ROOF RAKE AND TRIM

PROJECT #: 201310
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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
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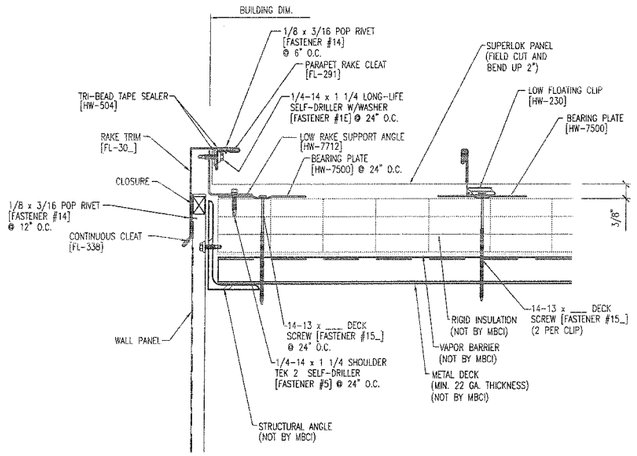
SHEET: 5.1

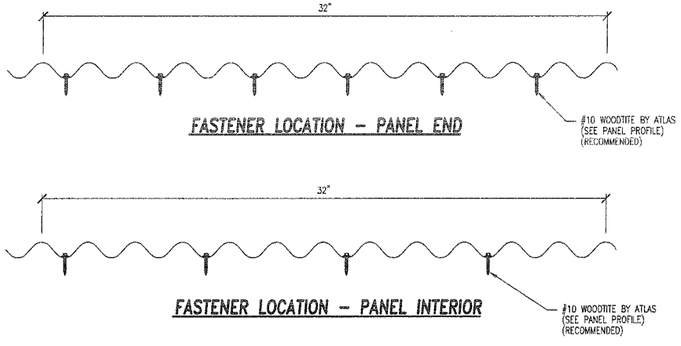


RE: 1/5.1

1 RAKE DETAIL

SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



FASTENER LOCATION - PANEL END

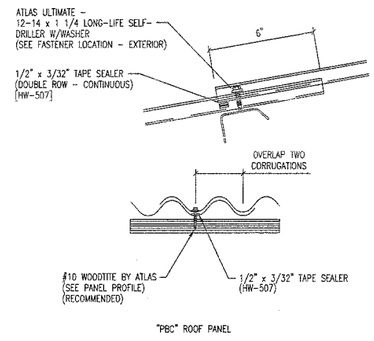
FASTENER LOCATION - PANEL INTERIOR

RE: 1/5.1

2 PANEL FASTENER DETAIL

SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE: 1/5.1

3 PANEL LAPPING DETAIL

SCALE: 3"=1'-0"

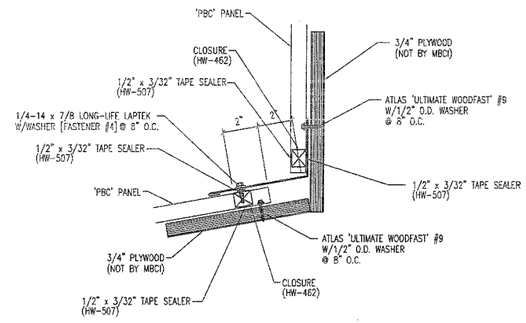
NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

RE: 1/5.1

4 LOW EAVE DETAIL

SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

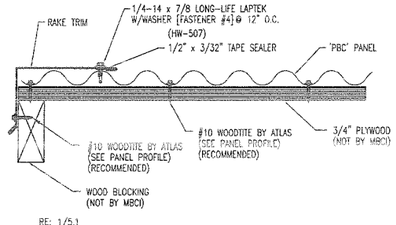


RE: 1/5.1

5 HIGH EAVE TO WALL DETAIL

SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

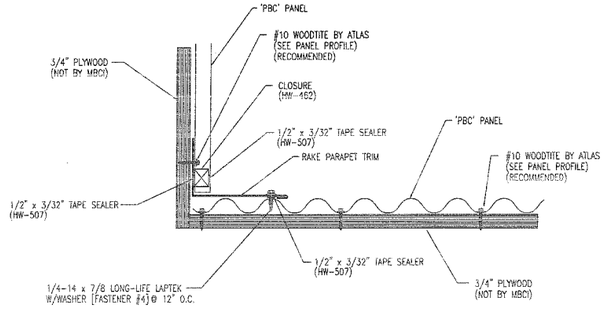


RE: 1/5.1

6 RAKE DETAIL

SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE: 1/5.1

7 RAKE TO WALL DETAIL

SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

HECTOR R. GARCIA 13962
LICENSE EXPIRES 03/31/2014

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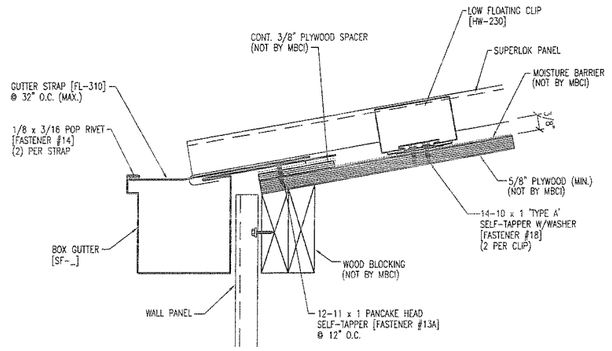
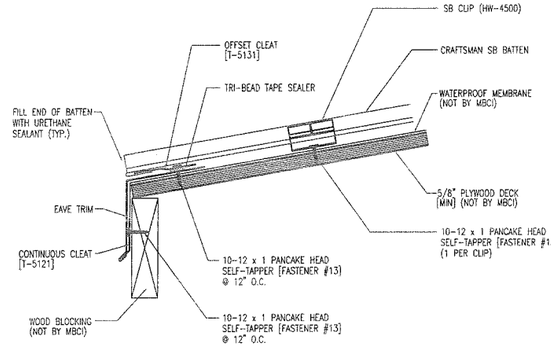
SHEET: 5.3



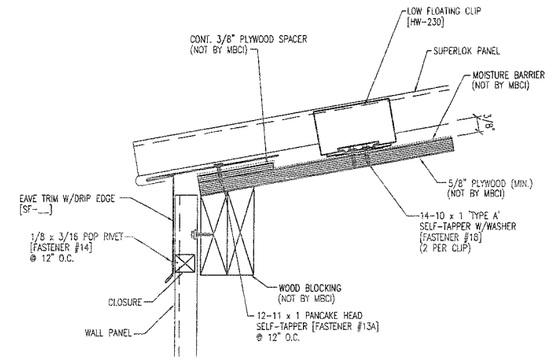
RE: 1/5.1
1 EAVE & GUTTER
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



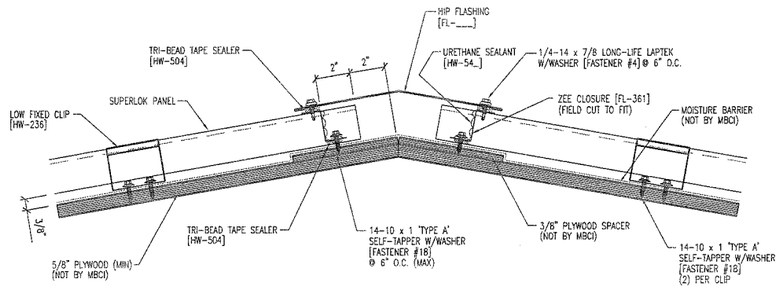
RE: 1/5.1
2 EAVE & FASCIA TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



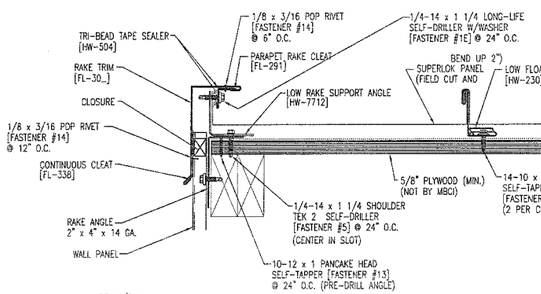
RE: 1/5.1
3 EAVE & FASCIA TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



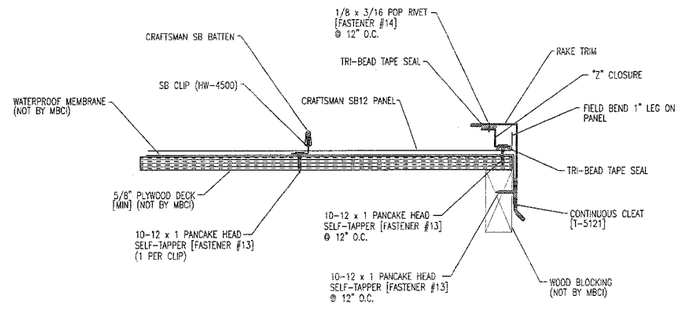
RE: 1/5.1
4 ROOF RIDGE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



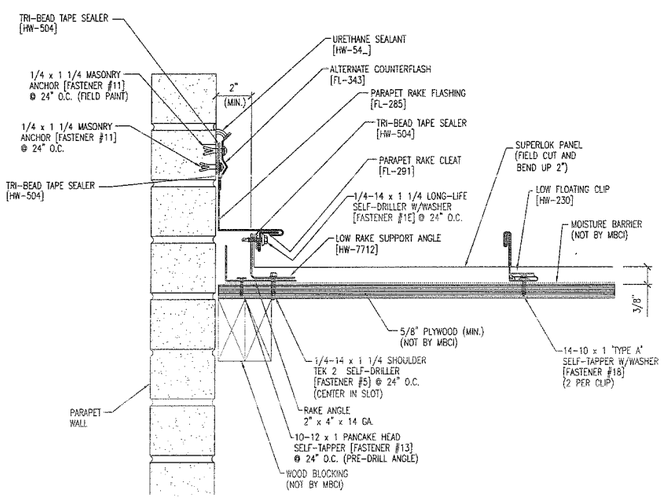
RE: 1/5.1
5 RAKE TRIM ON MODULE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



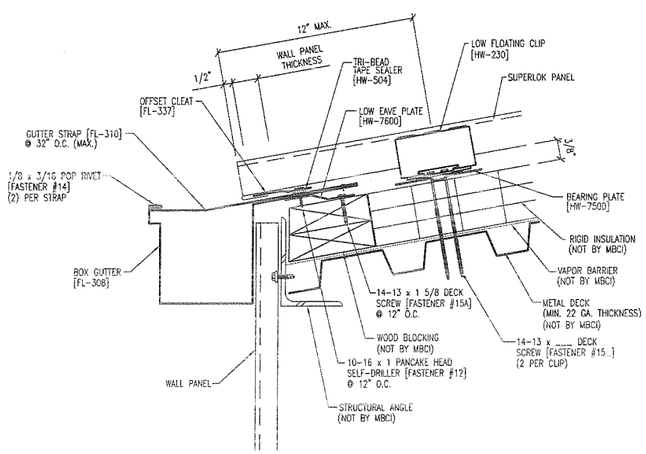
RE: 1/5.1
6 RAKE TRIM OFF MODULE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



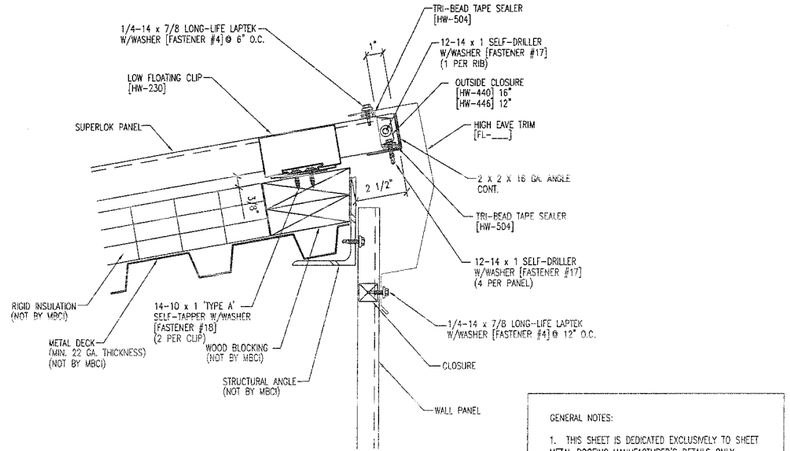
RE: 1/5.1
7 RAKE TO WALL FLASHING & TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE: 1/5.1
8 LOW EAVE W/ GUTTER
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE: 1/5.1
9 HIGH EAVE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

GENERAL NOTES:

1. THIS SHEET IS DEDICATED EXCLUSIVELY TO SHEET METAL ROOFING MANUFACTURER'S DETAILS ONLY. ACTUAL TERMINATION CONDITIONS VARY DEPENDING ON ARCHITECTURAL REQUIREMENTS.

2. ALL PLANS SECTIONS AND DETAILS MUST BE REFERENCED BEFORE BIDDING, AND ALL TRADES SHOULD BE COORDINATED.

3. ALL FIELD CONDITIONS MUST BE VERIFIED PRIOR TO MANUFACTURE

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PROJECT: LINN - SAN MANUEL EMERGENCY SERVICES FACILITY PRECINCT NO. 4
OWNER: LINN-SAN MANUEL, TEXAS
HIDALGO COUNTY

HECTOR R. GARCIA 13961
LICENSE EXPIRES: 03/31/2014

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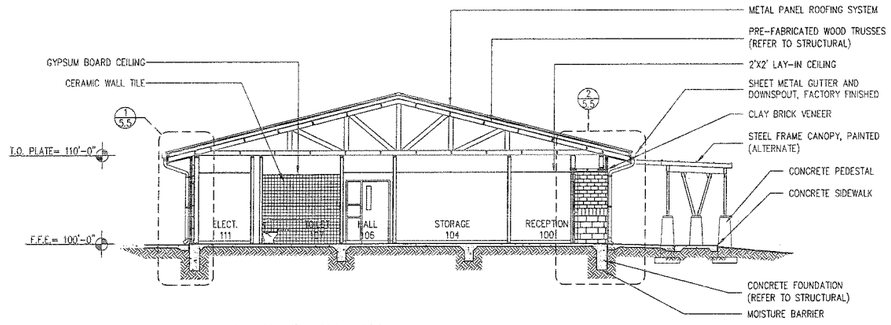
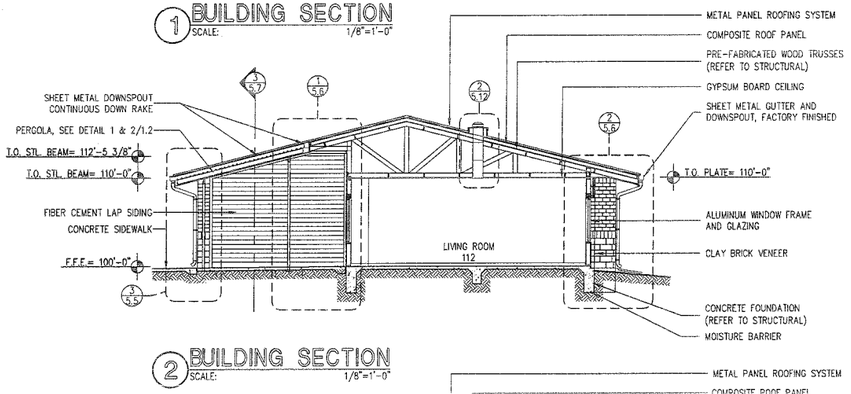
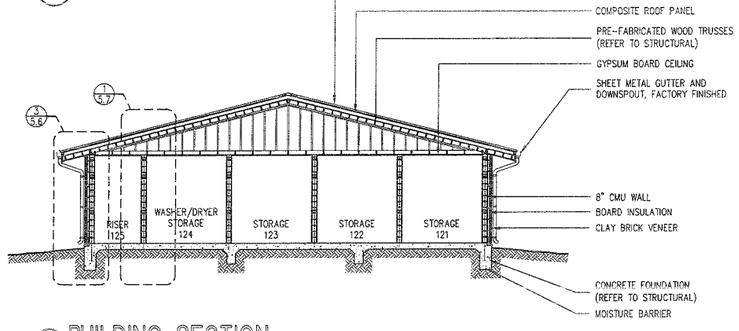
SHEET: 5.2



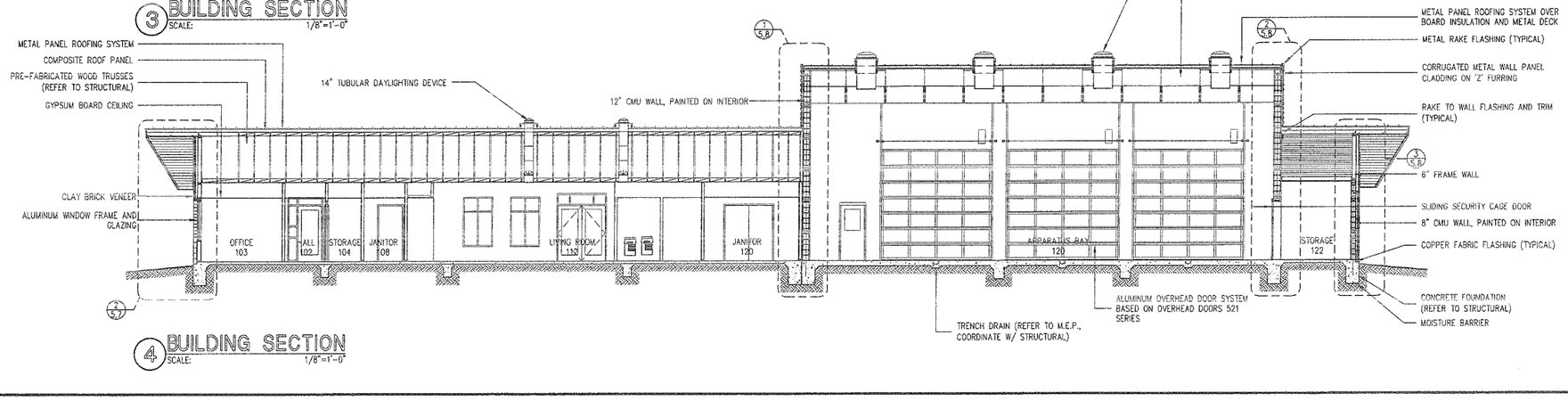
1 BUILDING SECTION
SCALE: 1/8"=1'-0"



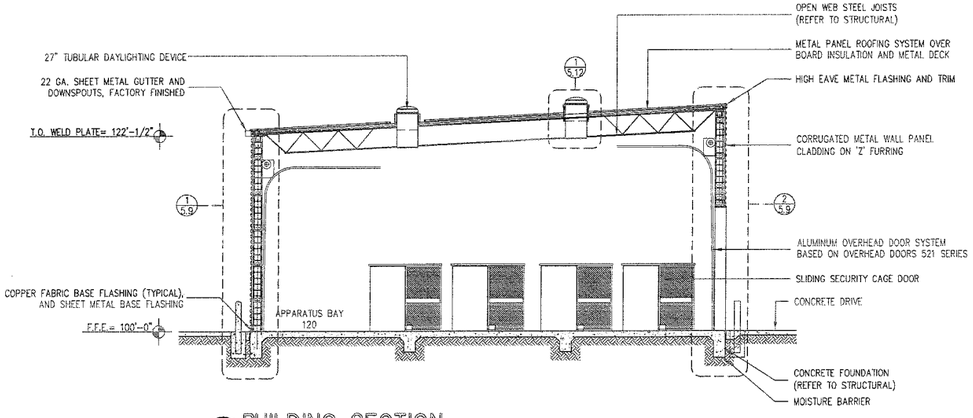
2 BUILDING SECTION
SCALE: 1/8"=1'-0"



3 BUILDING SECTION
SCALE: 1/8"=1'-0"



4 BUILDING SECTION
SCALE: 1/8"=1'-0"



5 BUILDING SECTION
SCALE: 1/8"=1'-0"

PROJECT #: 20130
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LINN - SAN MANUEL
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PROJECT : LINN-SAN MANUEL, TEXAS
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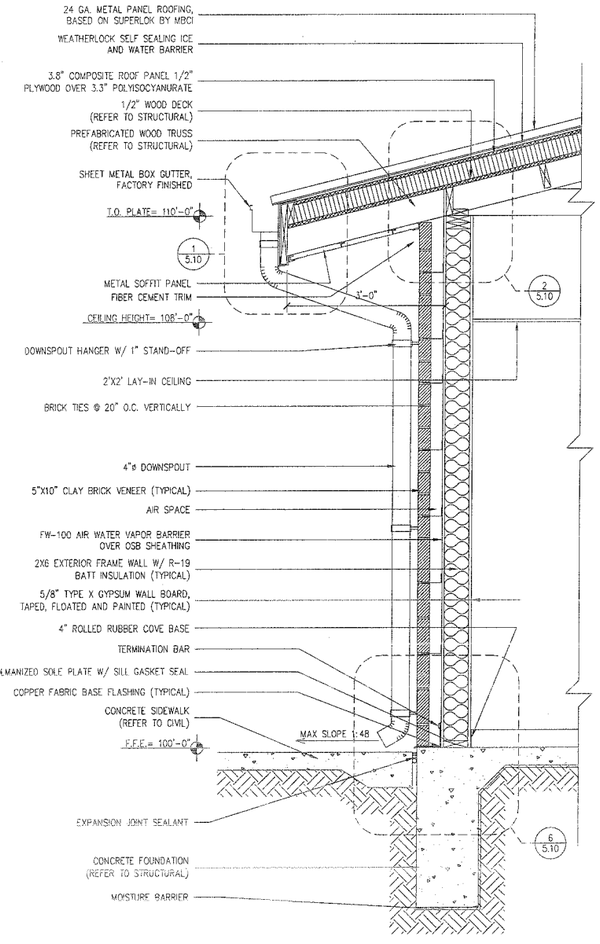
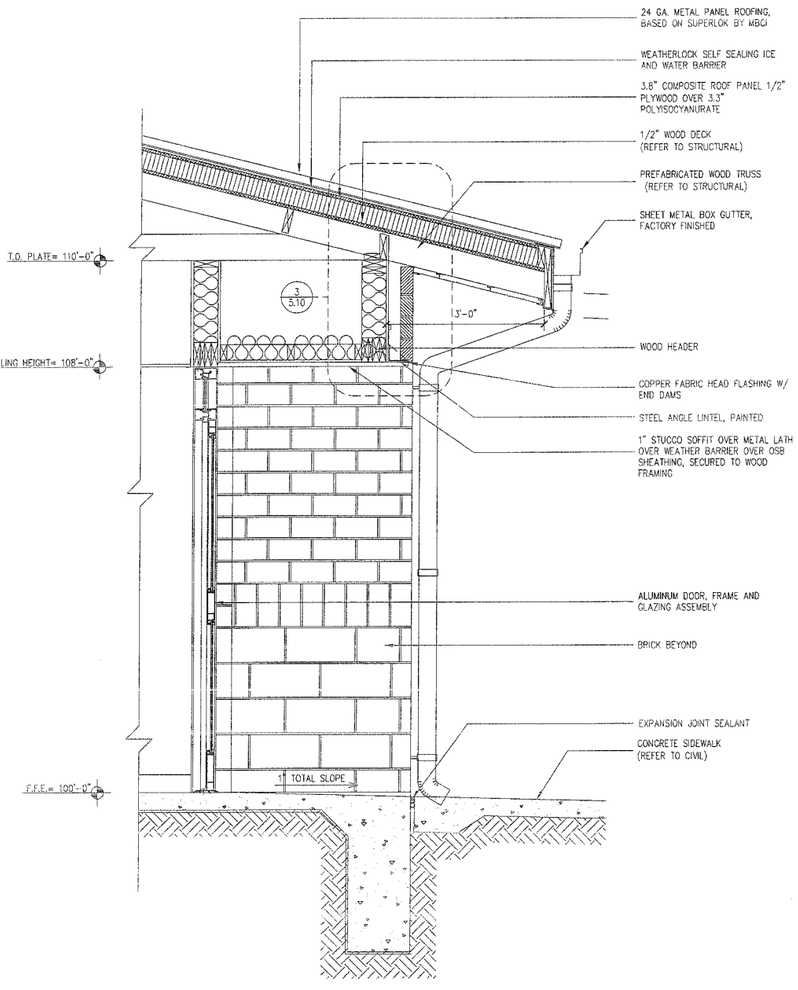
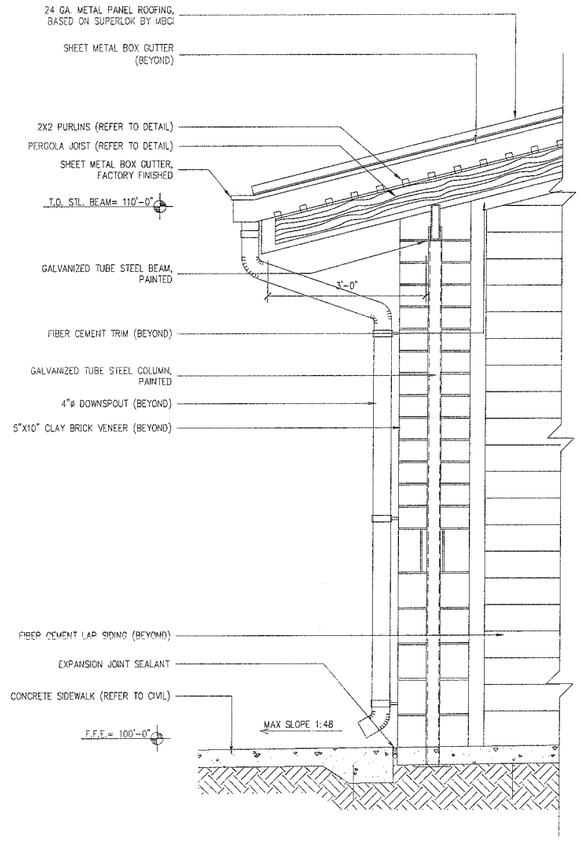
SHEET: 5.4



REF: 1/5.4
1 WALL SECTION
SCALE: 3/4"=1'-0"



REF: 1/5.4
2 WALL SECTION
SCALE: 3/4"=1'-0"



REF: 2/5.4
3 WALL SECTION
SCALE: 3/4"=1'-0"

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OWNER : HIDALGO COUNTY

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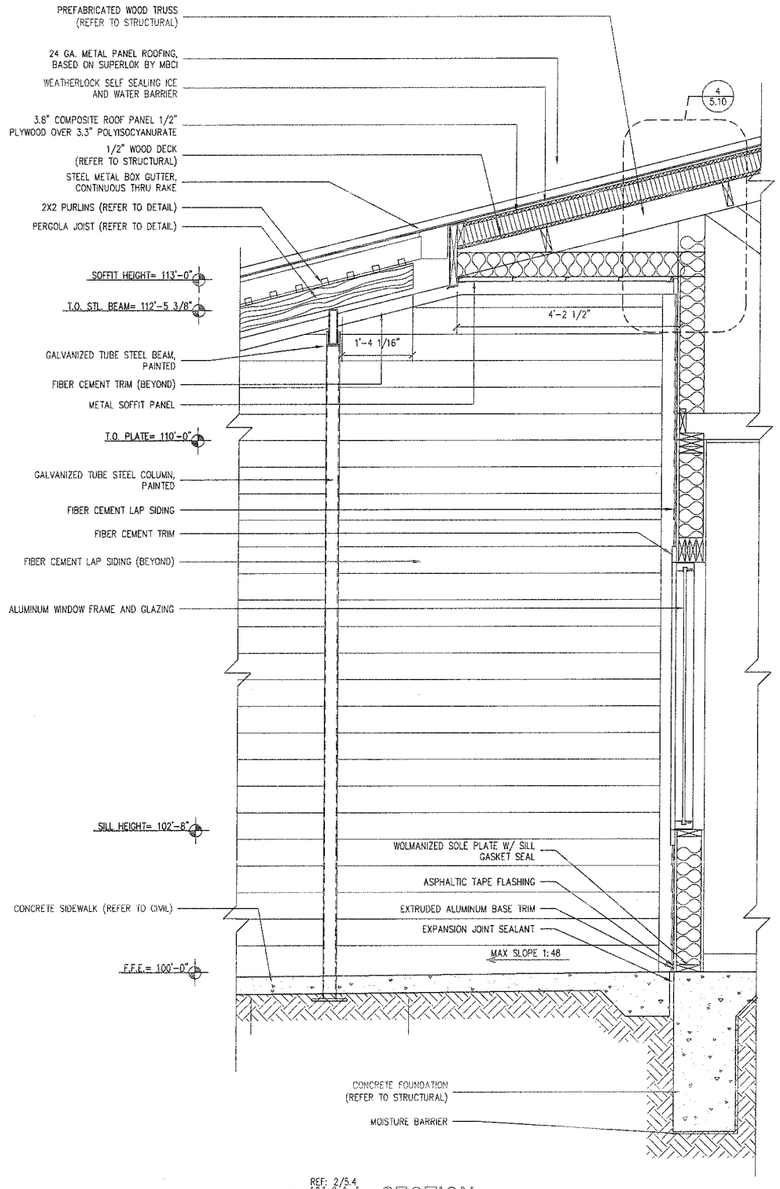
SHEET:
5.5



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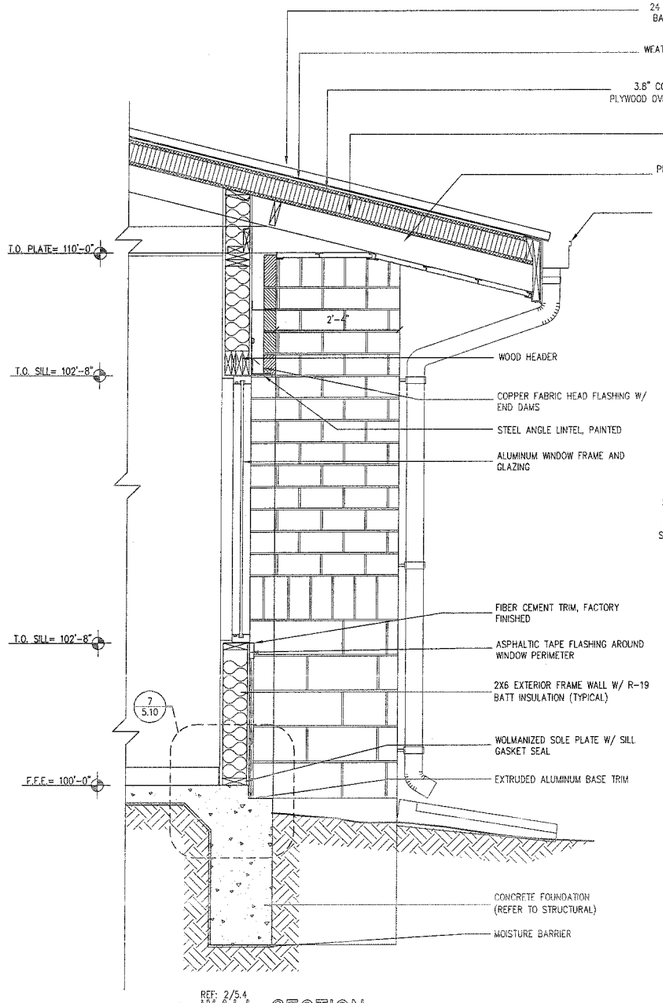

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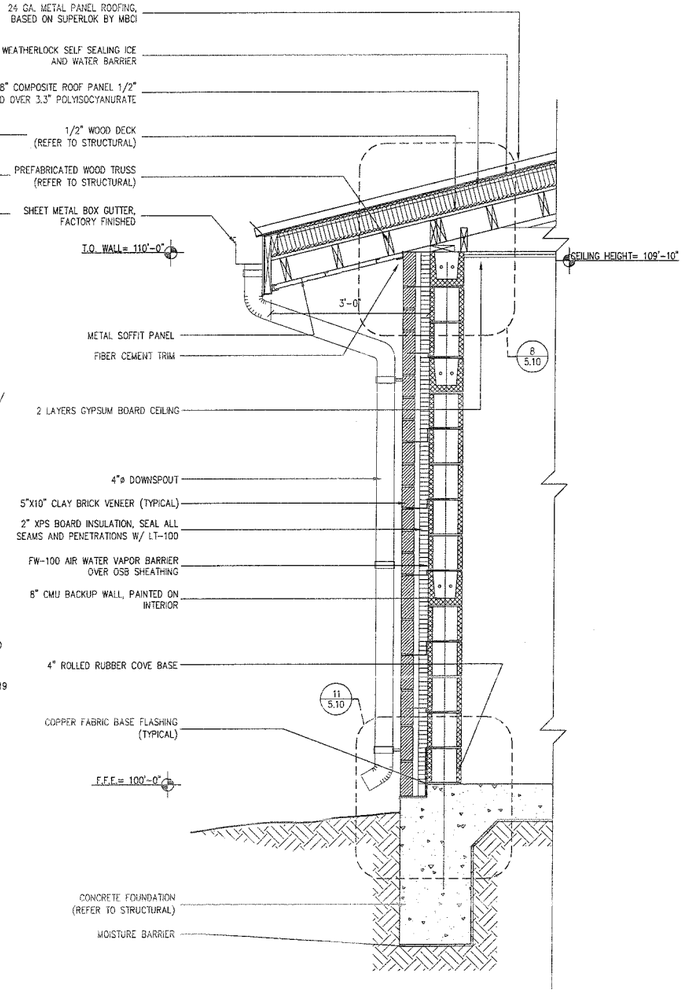

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LINN - SAN MANUEL EMERGENCY SERVICES FACILITY PRECINCT NO. 4

PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

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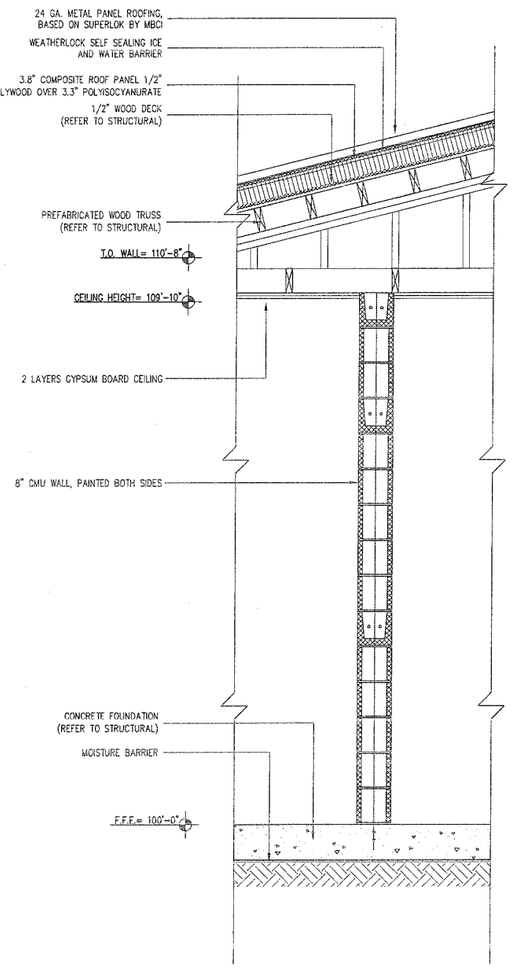
SHEET: 5.6



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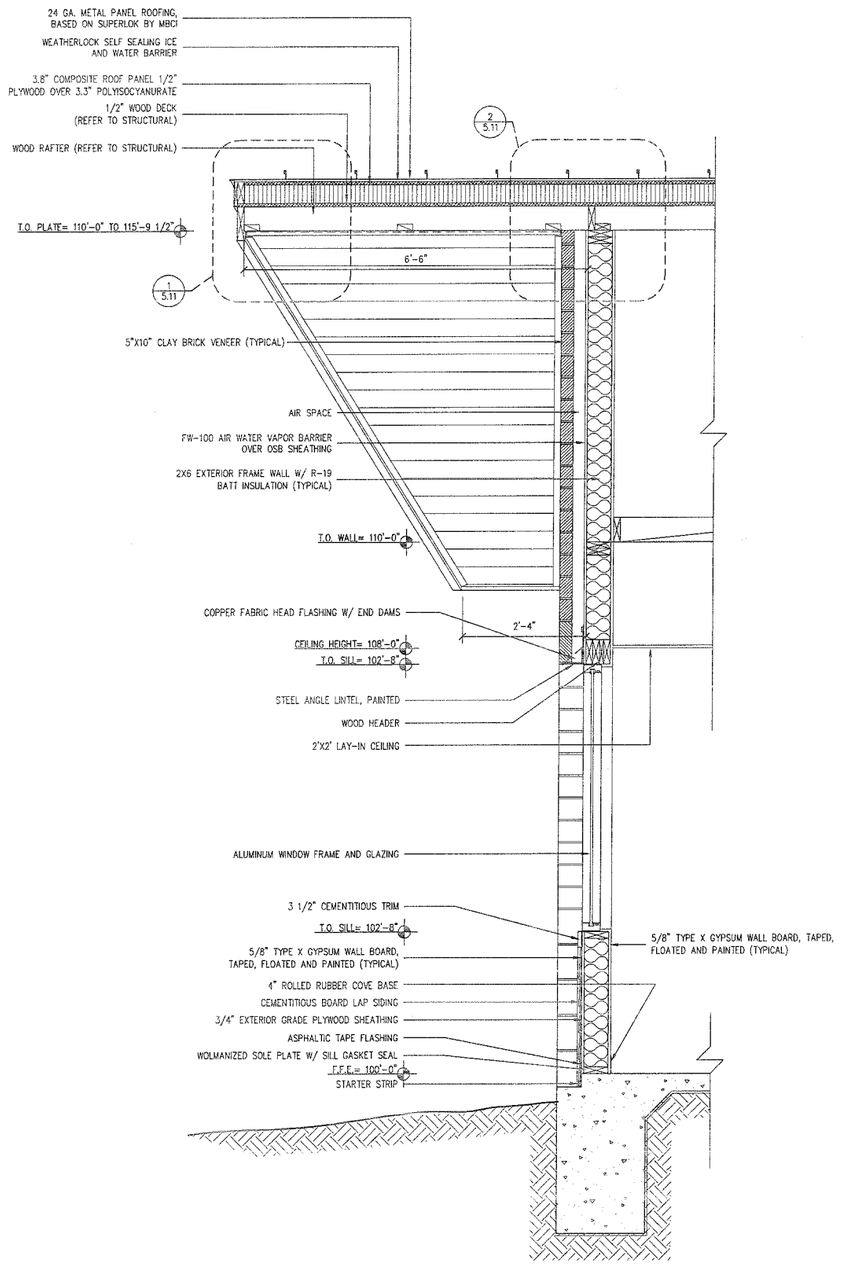

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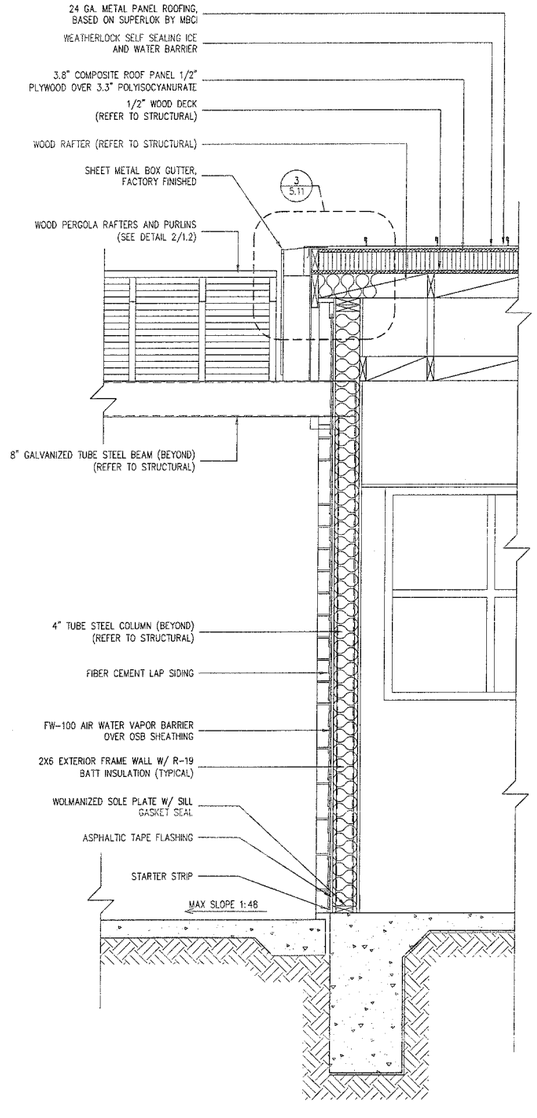

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13962
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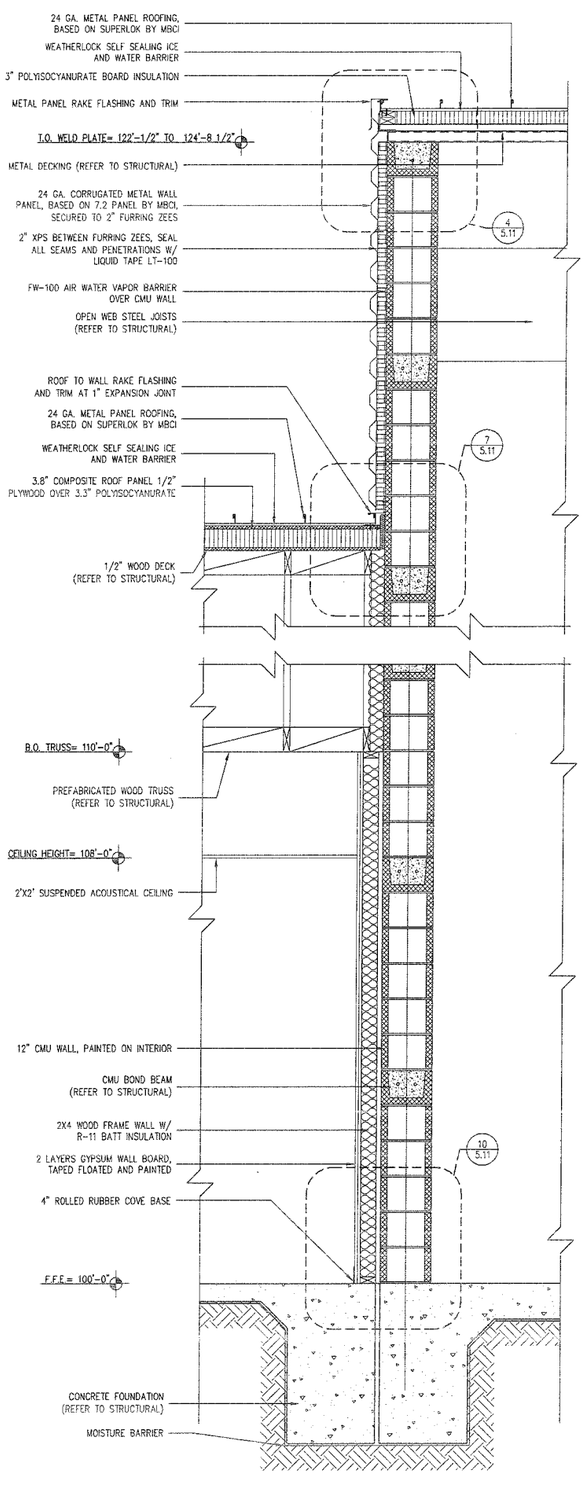

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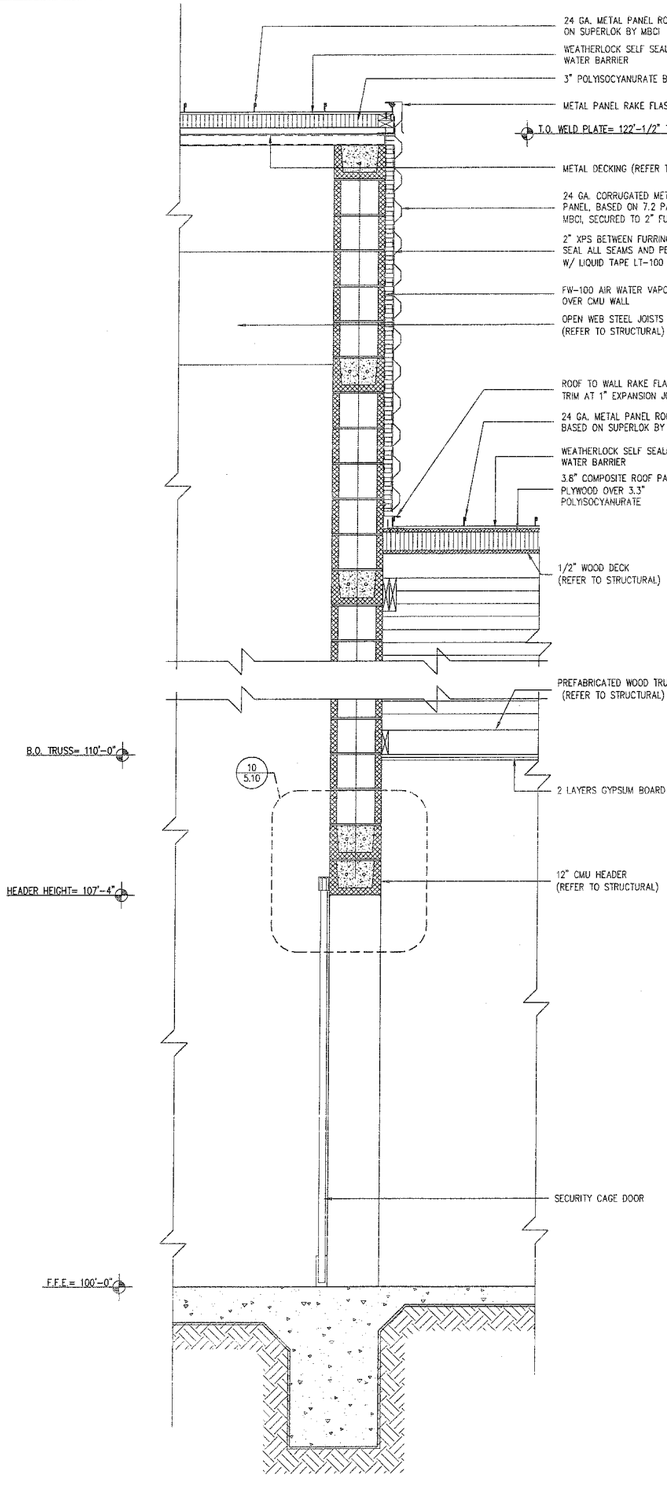

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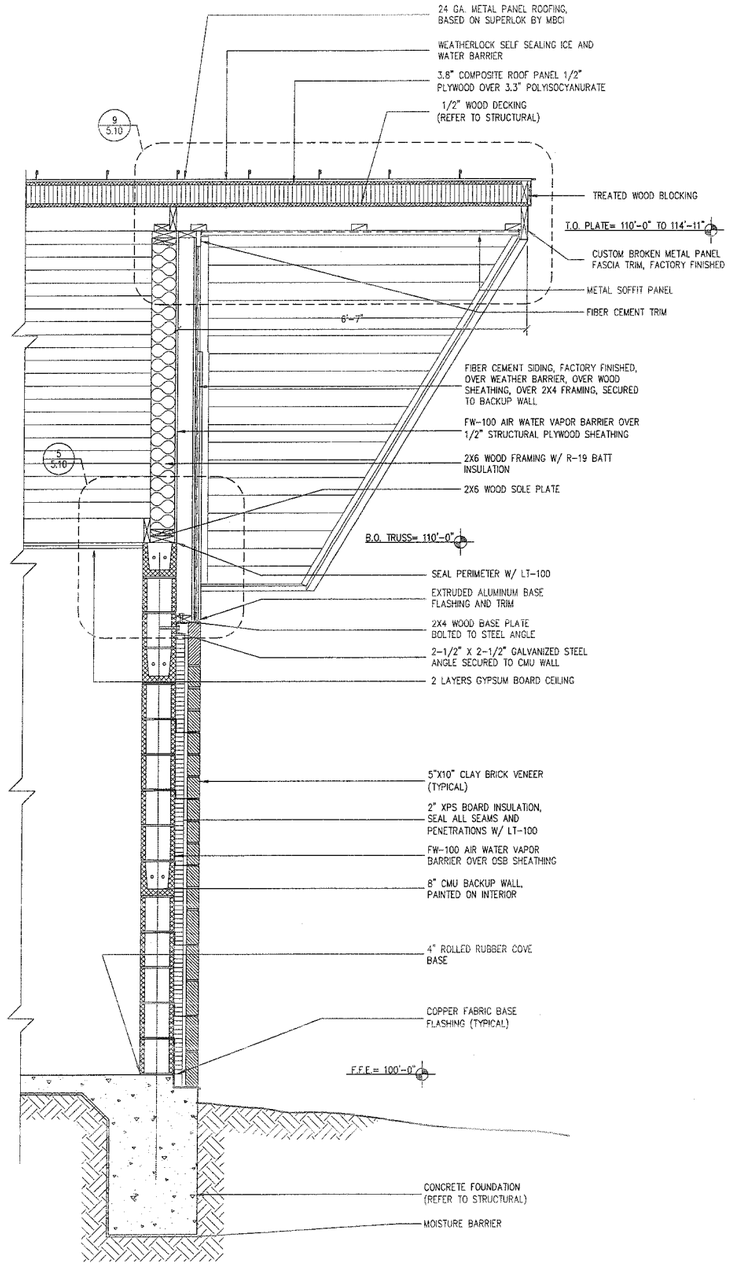

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PROJECT #: 201310
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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
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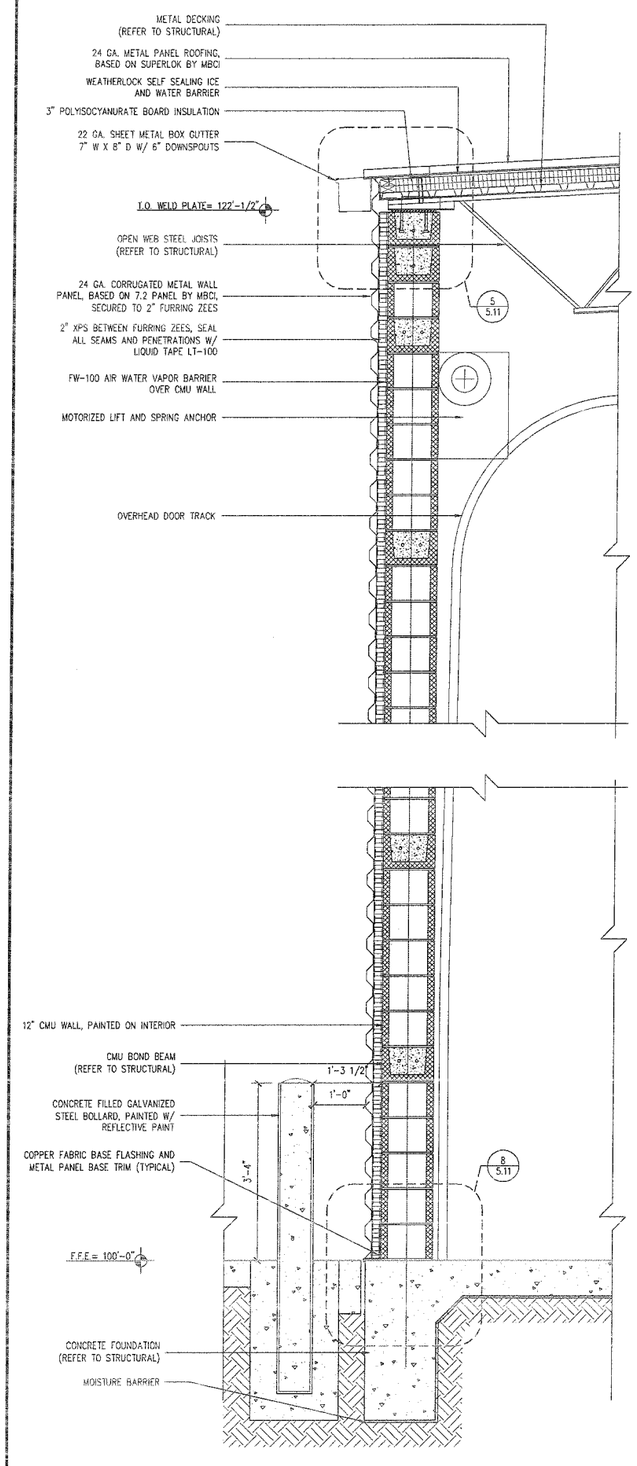

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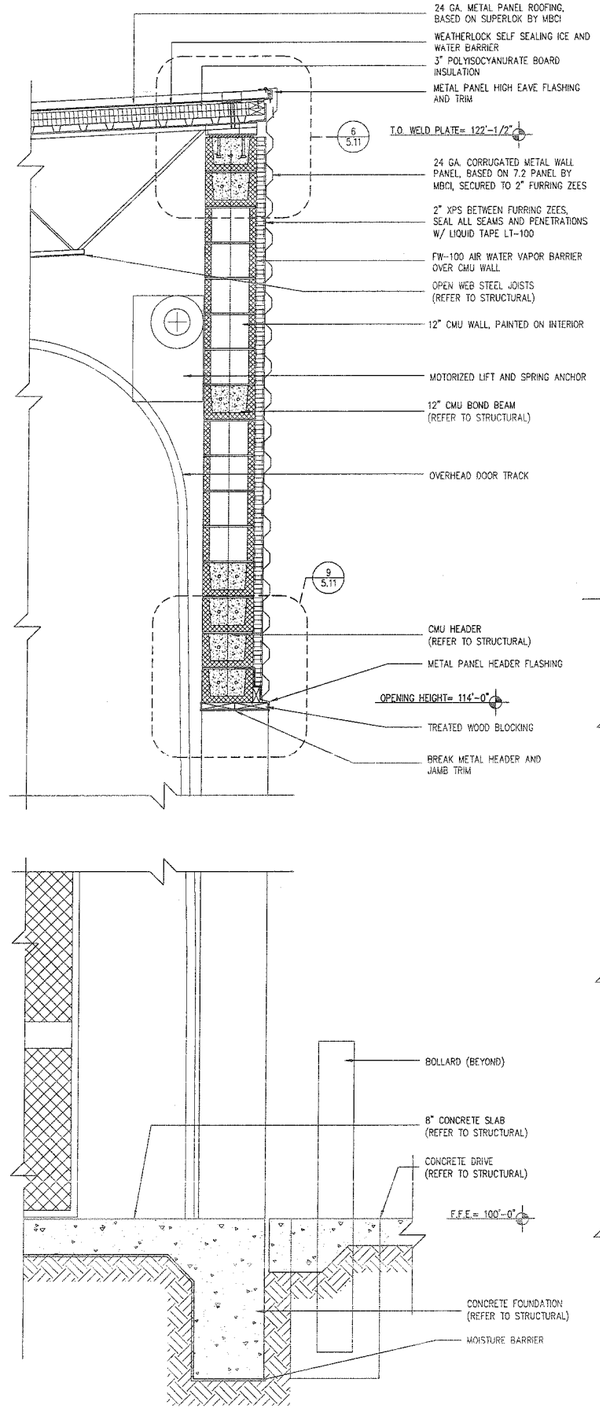

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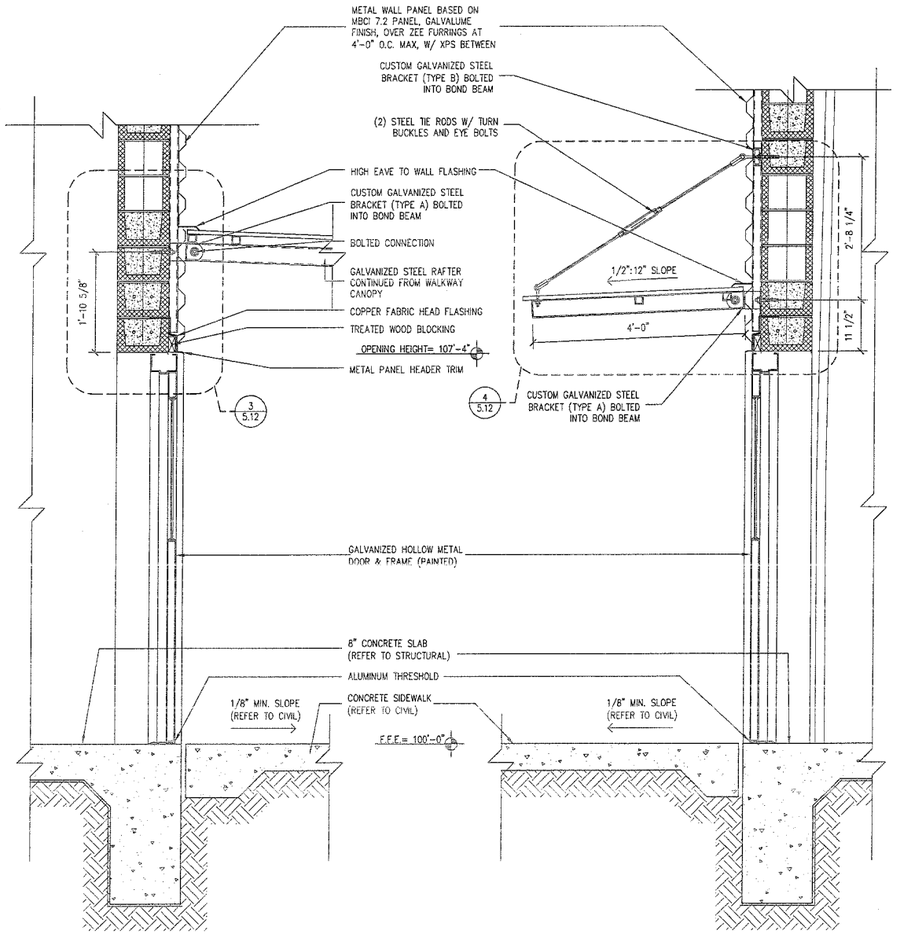

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3 WALL SECTION
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REF: 1/4.1
4 WALL SECTION
SCALE: 3/4"=1'-0"

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13967
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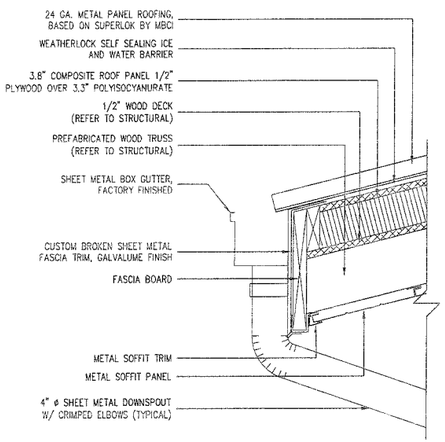

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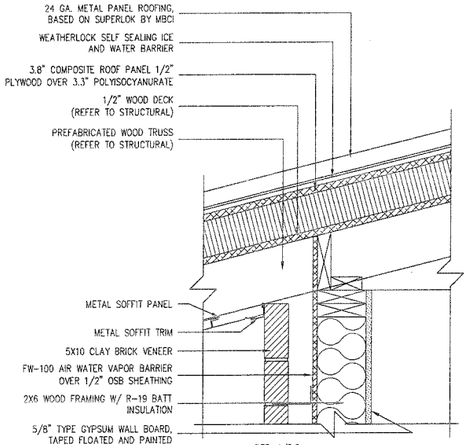

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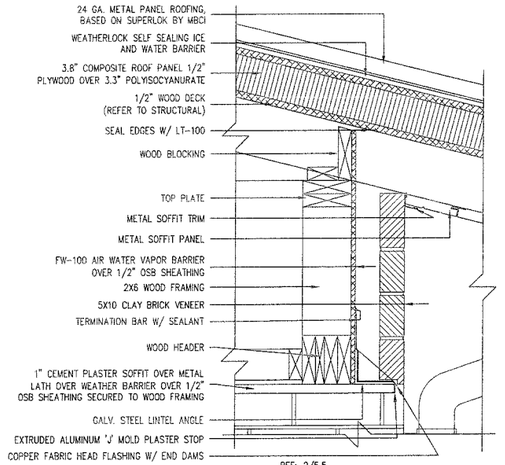

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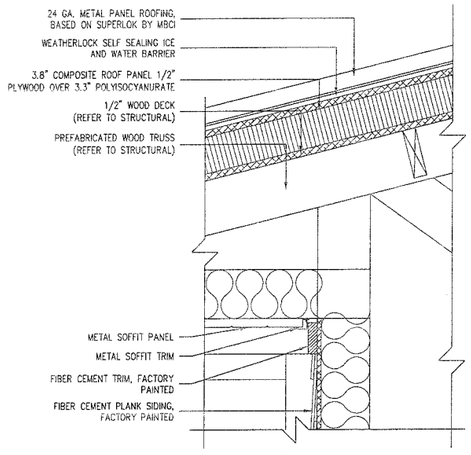

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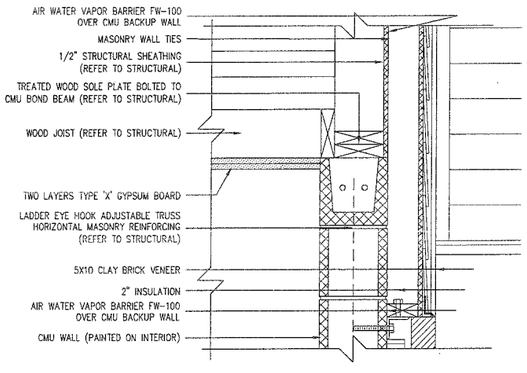

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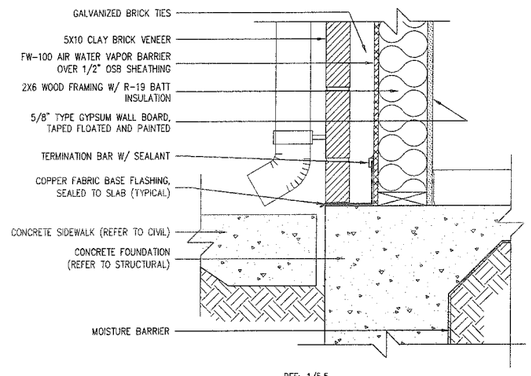

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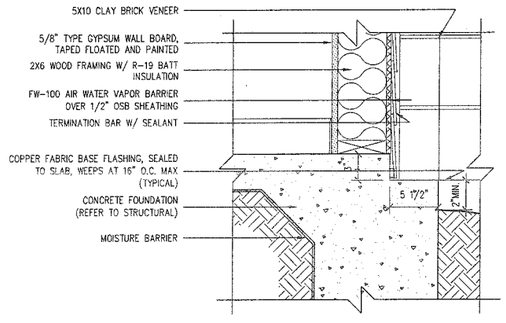

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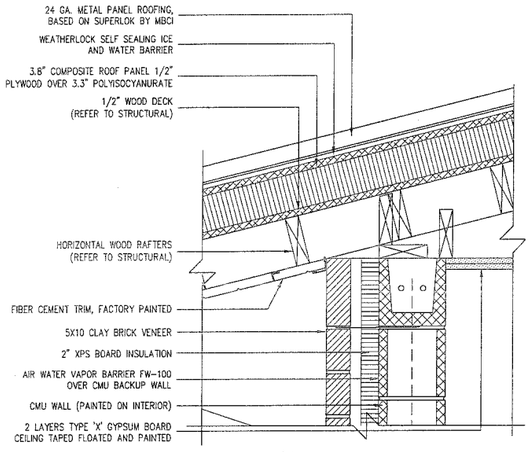

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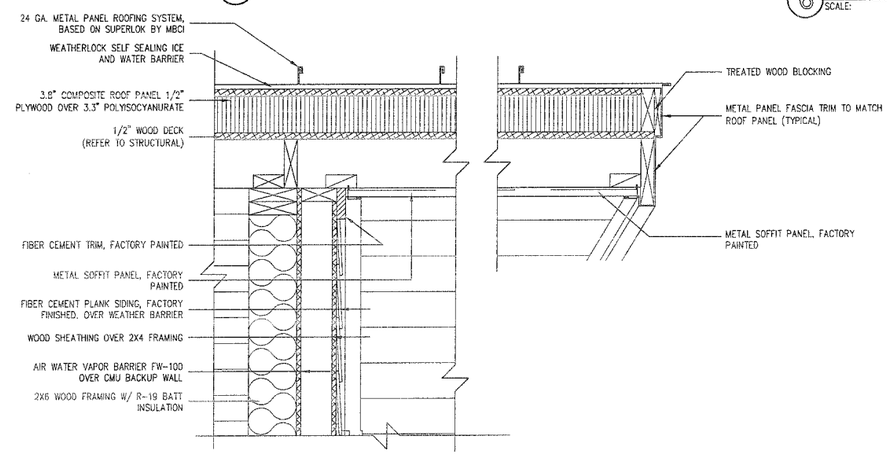

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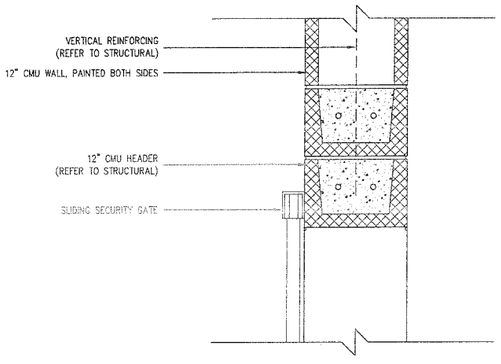

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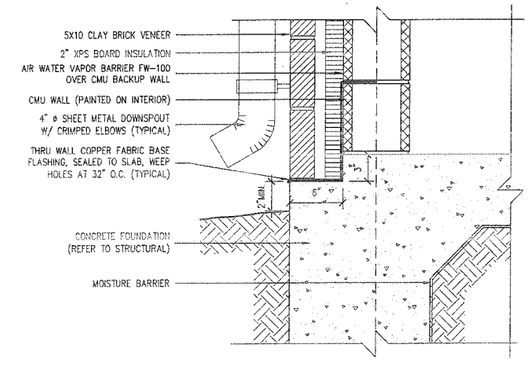

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LINN - SAN MANUEL
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PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
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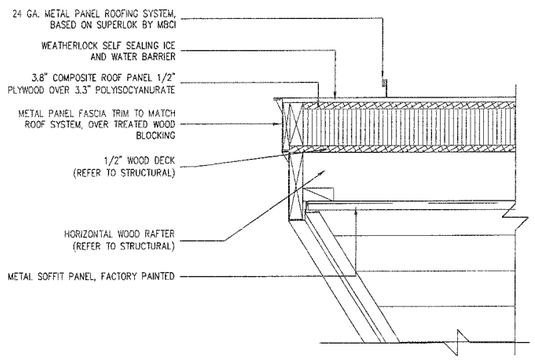

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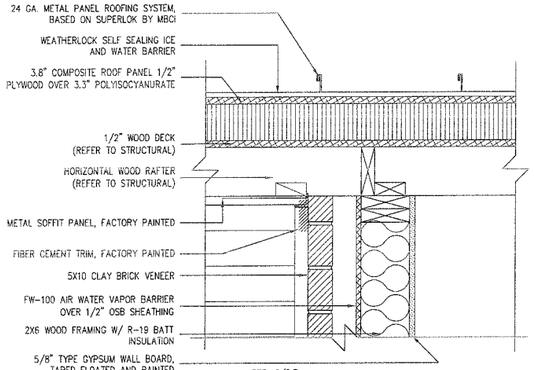

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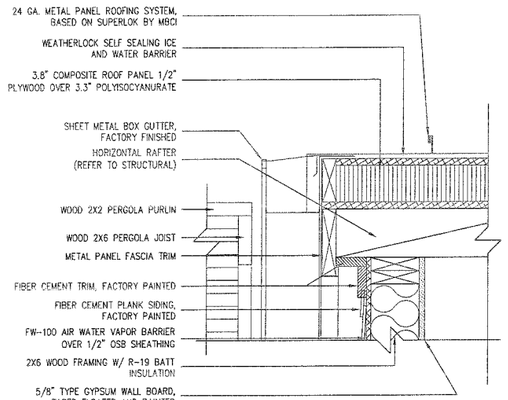

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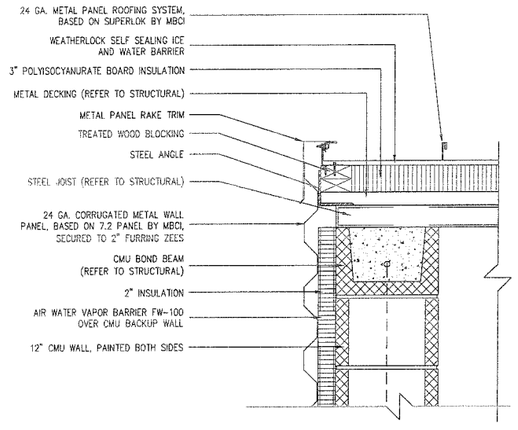

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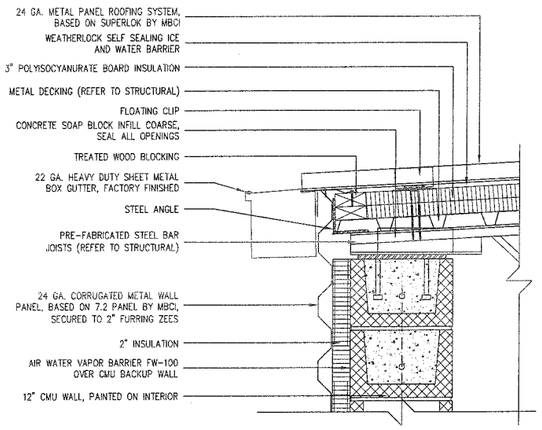

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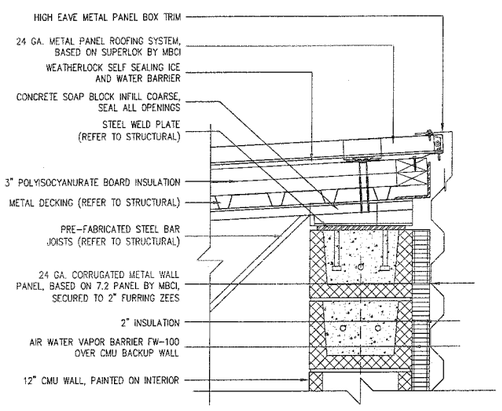

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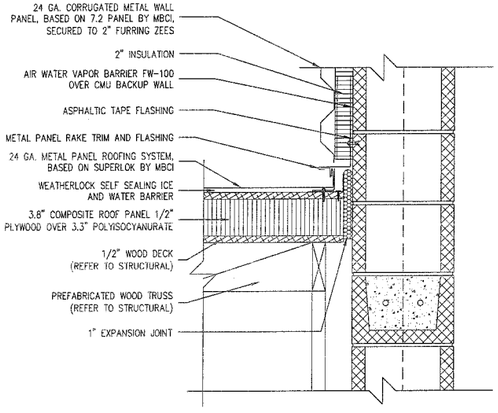

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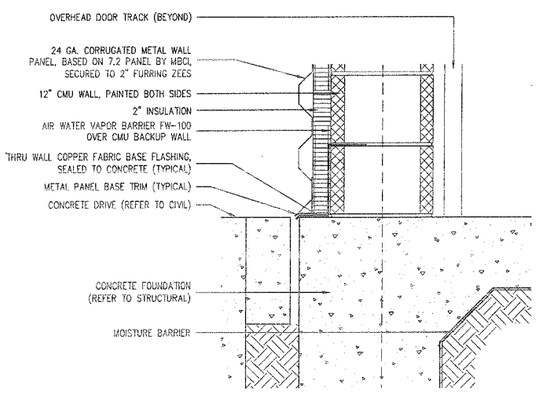

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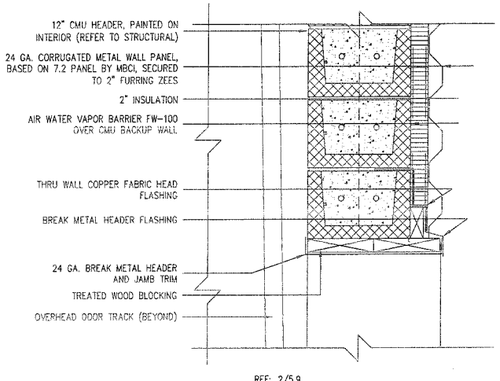

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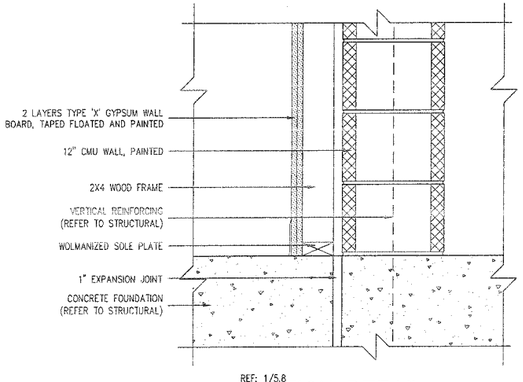

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LINN - SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN-SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13962
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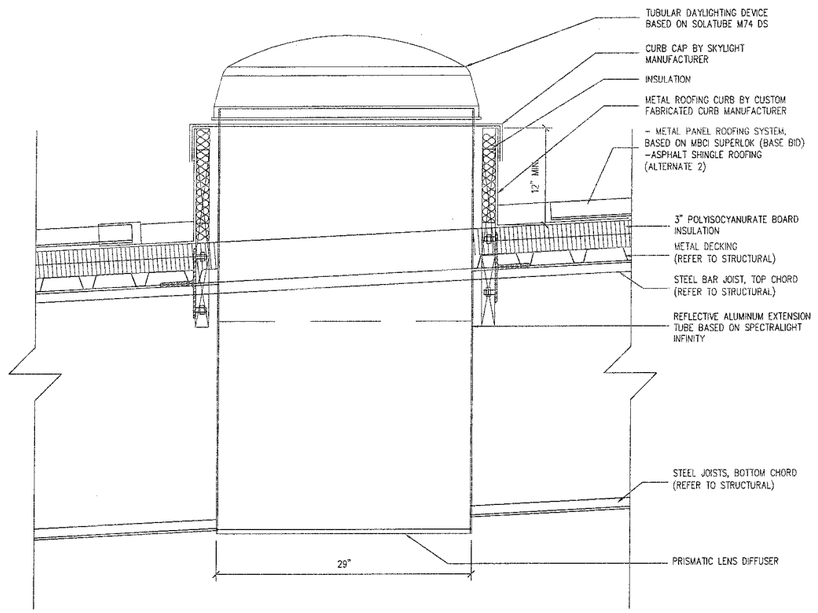
5.11



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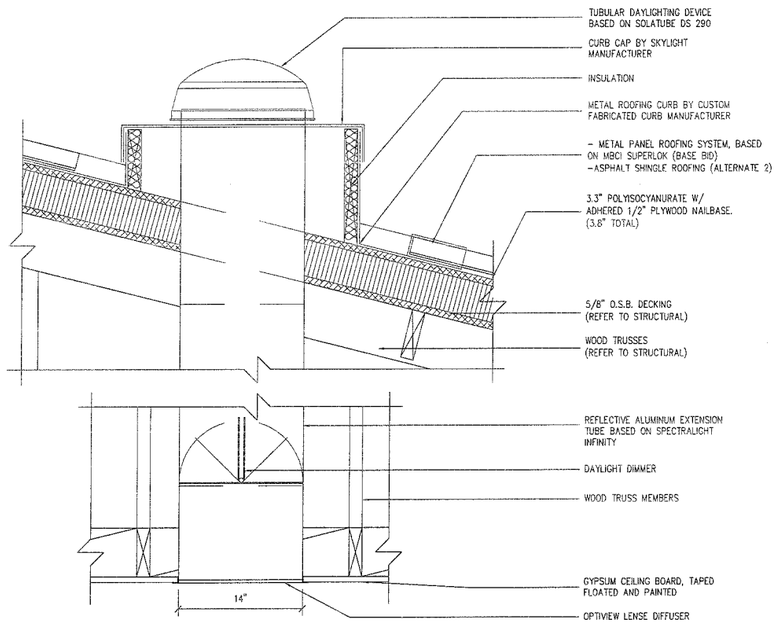

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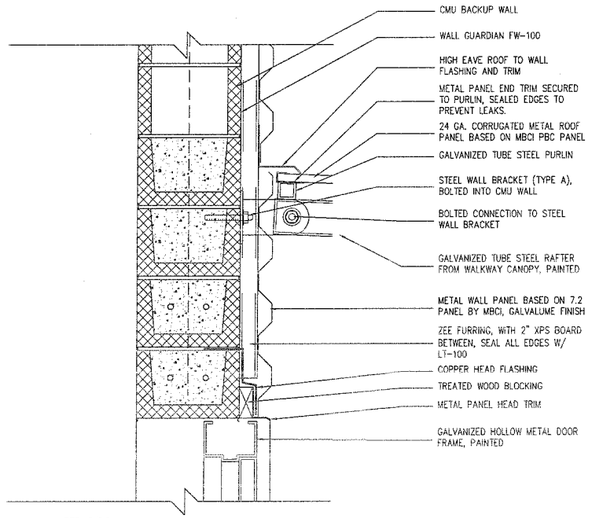

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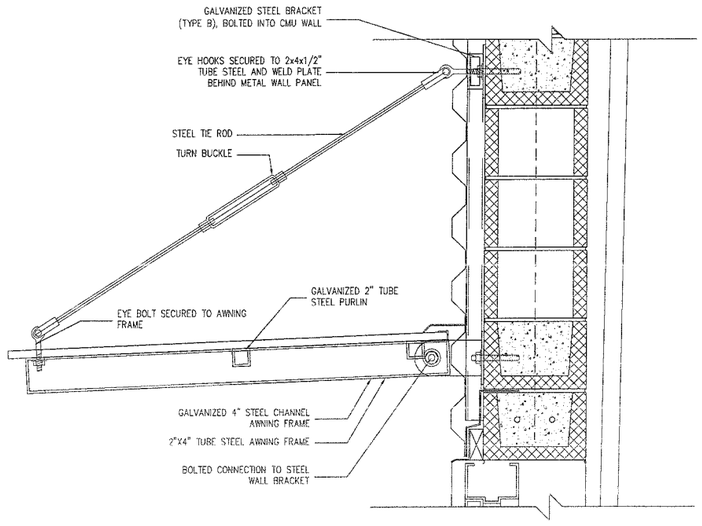

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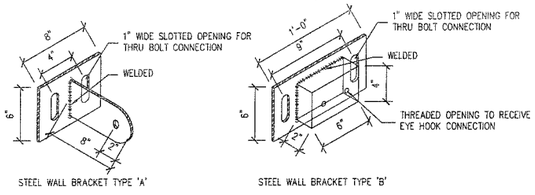

5 WALL BRACKET ISOMETRIC DETAIL
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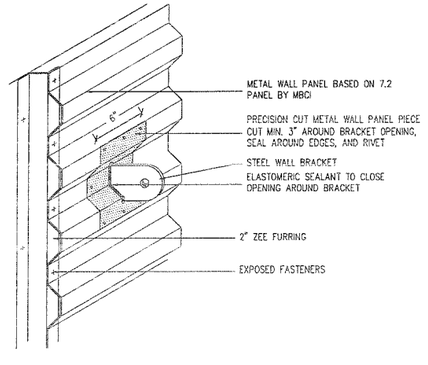

6 WALL BRACKET PENETRATION DETAIL
SCALE: 1-1/2"=1'-0"

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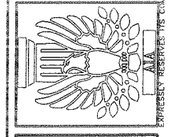

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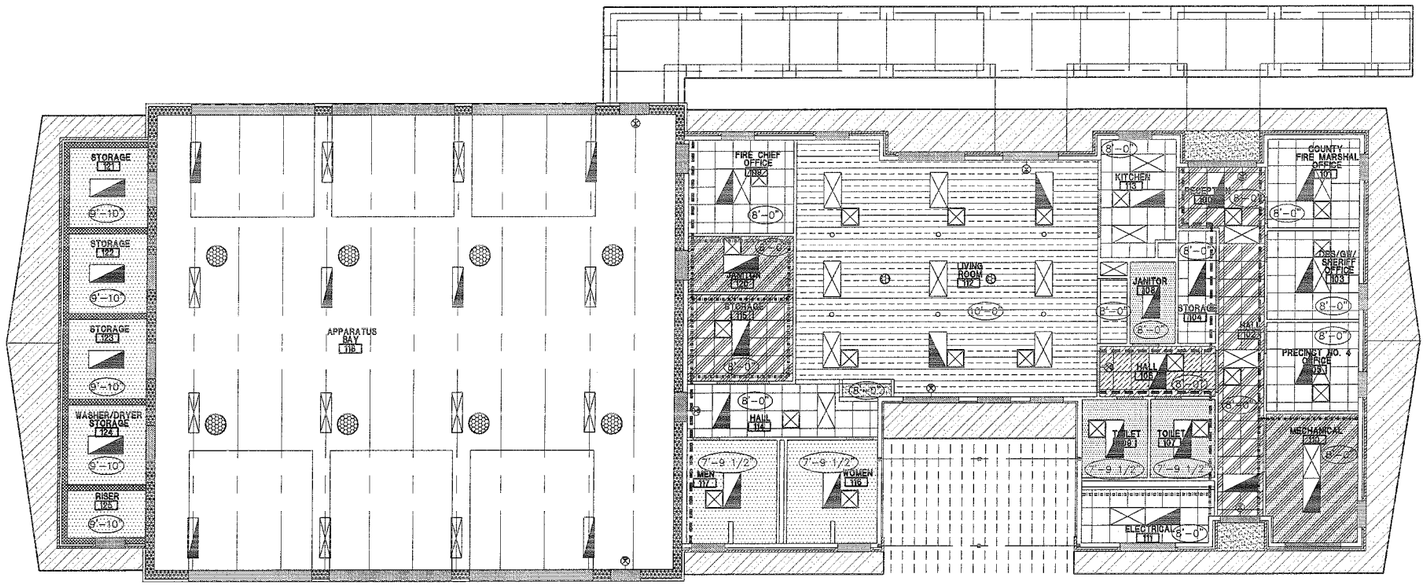


1 REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

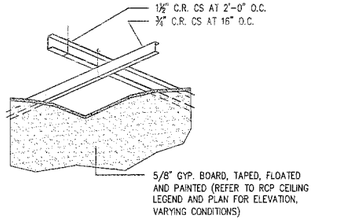
CEILING LEGEND

- C-1 ACOUSTICAL CEILING TILE AND GRID 2x2
- C-2 SUSPENDED TYPE X GYPSUM BOARD
- C-3 MOISTURE RESISTANT TYPE X GYPSUM BOARD, PAINTED
- C-4 CEMENT PLASTER SOFFIT
- C-5 BEADED L-12 METAL SOFFIT PANEL
- C-6 EXPOSED STRUCTURE
- C-7 ACOUSTICAL CEILING TILE AND GRID 2x2 1 HOUR FIRE RATED
- C-8 MOISTURE RESISTANT TYPE X GYPSUM BOARD, PAINTED 1 HOUR FIRE RATED
- 21" SOLATUBE LOCATION
- 14" SOLATUBE LOCATION

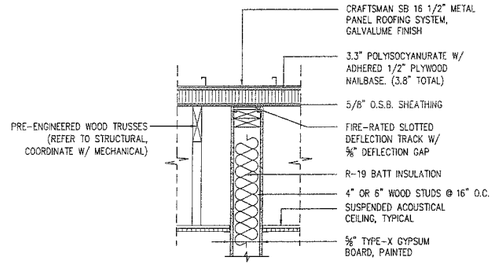
GENERAL NOTES:
1. WALLS NOTED AS FIRE RATED MUST MEET MINIMUM SEPARATION REQUIREMENTS WITH ADJACENT SPACES.

WALL LEGEND

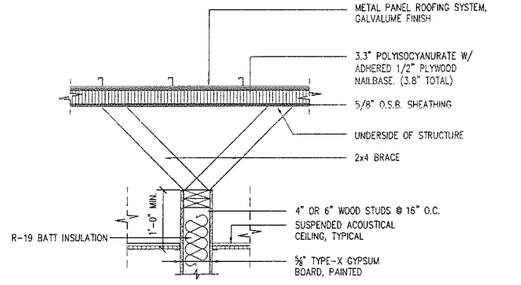
- SOLID WALL
- BULKHEAD WALL
- 1 HOUR FIRE RATED WALL (20 MIN. DOOR)
- 1 HOUR FIRE RATED WALL (45 MIN. DOOR)
- (X'-X") ROOM CEILING HEIGHT



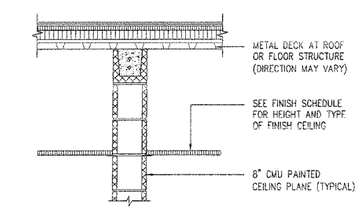
2 SUSPENDED GYPSUM BOARD CEILING DETAIL (TYP)
SCALE: N.T.S.



3 HEAD OF 1 HR. RATED WALL (TYP.)
SCALE: N.T.S.



4 TYPICAL WALL ABOVE CEILING
SCALE: N.T.S.



5 HEAD OF 1 HR. RATED WALL (TYP.)
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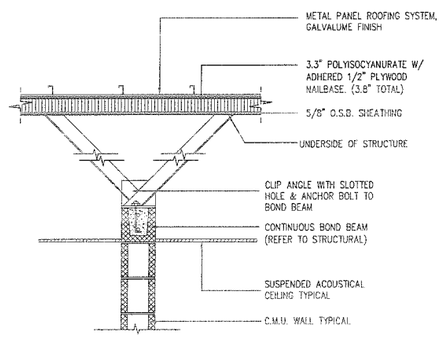

6 TYPICAL WALL ABOVE CEILING
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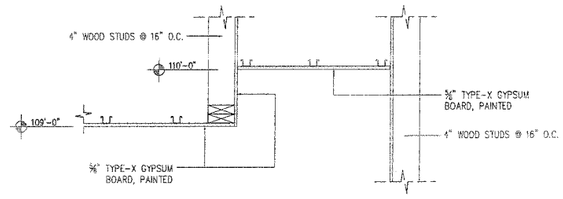

7 CEILING DETAIL
SCALE: N.T.S.

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LINN - SAN MANUEL
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PROJECT: LINN-SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

HECTOR R. GARCIA 13967
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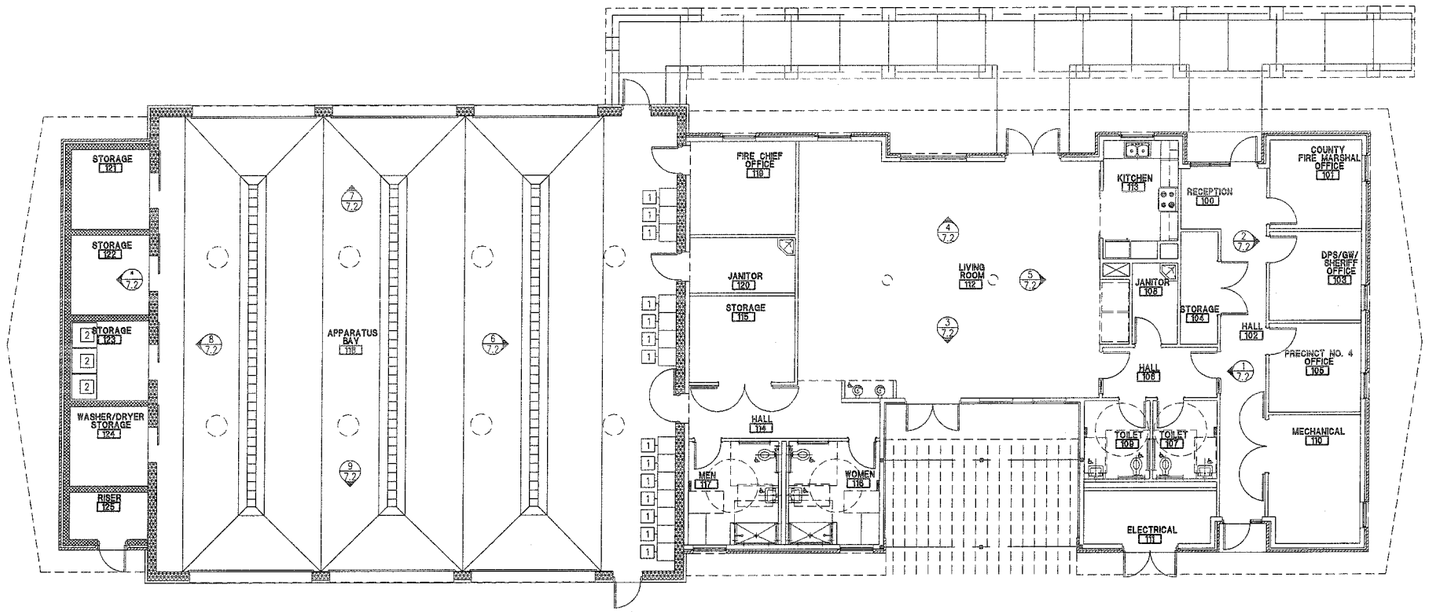
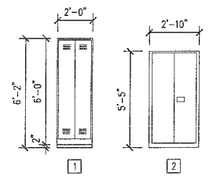


1 FIXTURE PLAN
SCALE: 1/8"=1'-0"



STORAGE CABINET SCHEDULE

NO.	FIXTURE	W" X D" X H"	REMARKS
1	FIRE FIGHTER GEAR LOCKER	24" X 24" X72"	CONCRETE BASE
2	FLAMMABLE STORAGE CABINET	36" X 24" X 34"	–

STORAGE CABINET LEGEND AND GENERAL NOTES

[X] CABINET TYPE, REFER TO CASEWORK SCHEDULE.

1. FLAMMABLE STORAGE CABINETS BASED ON SURE-GRIP EX FLAMMABLE SAFETY CABINET BY JUSTRITE MANUFACTURING MODEL NO. 896080
   - 18 GUAGE STEEL – DOUBLE VENTED
   - COLOR YELLOW – SELF CLOSING DOORS W/ FUSIBLE LINK
2. FIRE FIGHTER GEAR LOCKERS BASED ON PATRIOT LINE BY PENCO
   - PATRIOT WELDED TURNOUT LOCKER
   - 16 GUAGE STEEL WALLS, SHELVES, TOP, AND DOUBLE DOORS
   - 1" DIA. COAT ROD – INTEGRAL BASE – HEAVY DUTY COAT HOOKS
3. ALL METAL STORAGE CABINETS AND LOCKERS TO BE FACTORY POWDER COATED
4. FIELD VERIFY ALL DIMENSIONS.

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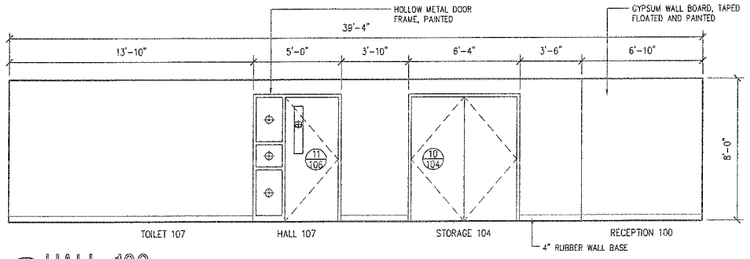

1 HALL 102
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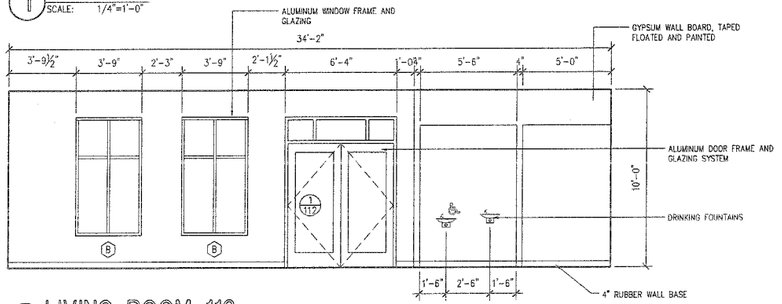
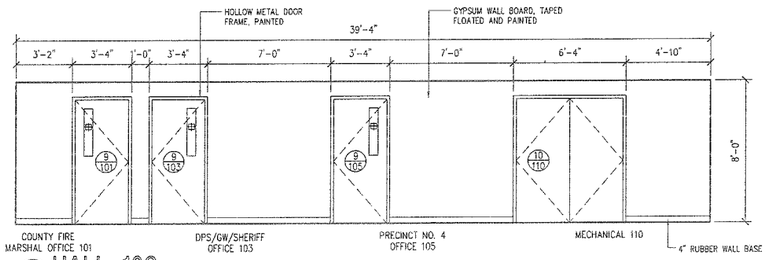


3 LIVING ROOM 112
SCALE: 1/4"=1'-0"



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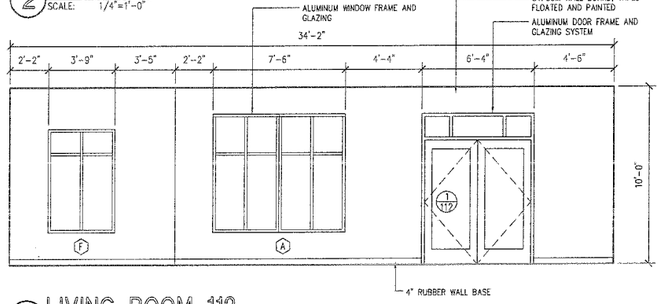

4 LIVING ROOM 112
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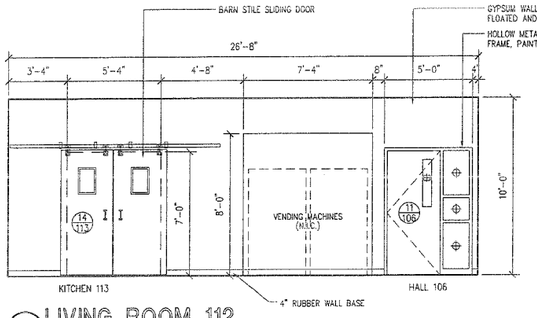

5 LIVING ROOM 112
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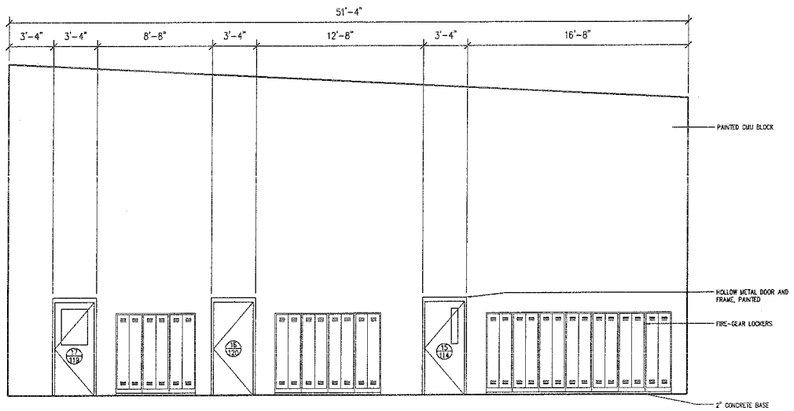

6 APPARATUS BAY 118
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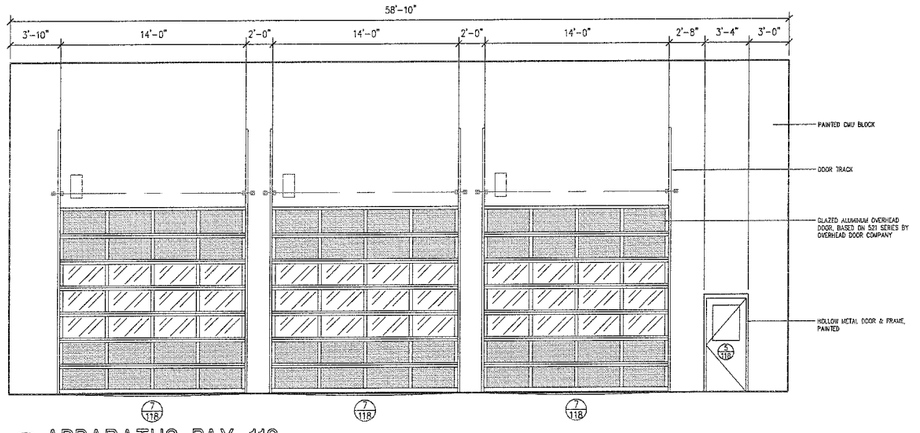

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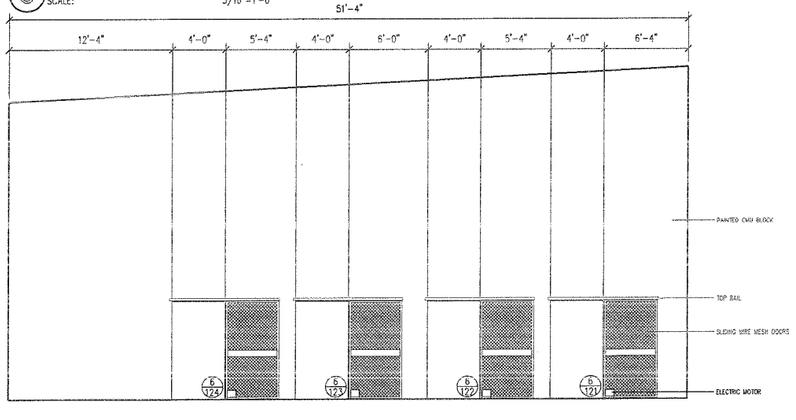

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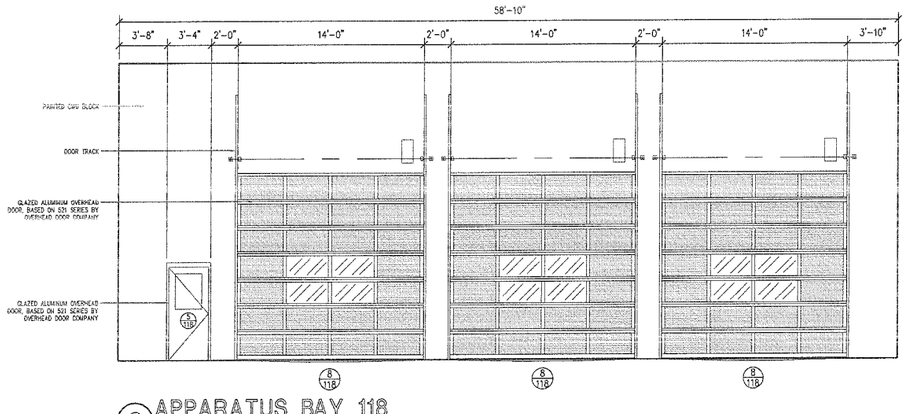

9 APPARATUS BAY 118
SCALE: 3/16"=1'-0"

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SHEET: 7.2

GENERAL LEGEND

MECHANICAL

GENERAL MECHANICAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.

B. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR OWNER.

C. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE SHALL INFORM THE OWNER PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE.

D. CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

E. CONTRACTOR SHALL INSTALL ALL EXHAUST SYSTEMS, INCLUDING FANS AND EXHAUST DUCTS. PROVIDE COMPLETE NEW SYSTEMS AS INDICATED.

F. CONTRACTOR SHALL PROVIDE ALL CEILING DIFFUSERS AS SHOWN. CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCT WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL SHOWN IN THESE PLANS. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

G. CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

H. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 6000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.

I. ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH OWNER-APPROVED PATCHING MATERIALS. ALL REFINISHING SHALL BE APPROVED BY THE OWNER.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.

K. CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SPLITTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

L. MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH THE ROOM FINISHES AND USES. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT INSTALLATION.

M. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING DIFFUSERS WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL REFLECTED CEILING PLANS. MOVE THE DIFFUSER LOCATIONS IF REQUIRED TO AVOID OBSTRUCTIONS FROM DUCTWORK AND LIGHT FIXTURES. COORDINATE RELOCATION WITH ENGINEER.

N. VERIFY THE LOCATION OF ALL WALLS, PARTITIONS, DOORS, CABINETS, AND CEILINGS FROM ACTUAL FIELD MEASUREMENTS.

O. PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED FOR SHUT DOWN BY DIVISION 16. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

P. CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

Q. ALL PIPING SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC AND JACKETED WITH ALUMINUM. REFER TO THE SPECIFICATIONS.

ELECTRICAL

GENERAL ELECTRICAL SITE NOTES:

A. ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY SERVICE REPRESENTATIVE AND COORDINATE SERVICE INSTALLATION PRIOR TO COMMENCING WORK.

B. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER ALL FEES AND CONSTRUCTION COSTS CHARGED BY THE POWER, TELEPHONE AND CABLE UTILITY PROVIDERS FOR MAIN LINE EXTENSIONS OF SERVICE FOR A NEW INSTALLATION.

C. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO FURNISH AND INSTALL POWER, TELEPHONE AND CABLE TO THE NEW FACILITY.

D. ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUIT, CONDUCTORS AND CABLES AS SPECIFIED. REFER TO SPECIFICATION SECTIONS FOR REQUIREMENTS.

GENERAL ELECTRICAL LIGHTING NOTES:

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED IN RCP.

B. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UNSWITCHED HOT LEGS OF THE LOCAL LIGHTING CIRCUIT

C. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.

D. COORDINATE LOCATIONS OF ALL WIRING SWITCHES AND MOUNTING HEIGHTS WITH OWNERS DRAWINGS PRIOR TO ROUGH IN.

E. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES PRIOR TO ROUGH-IN.

F. FURNISH AND INSTALL WALL MOUNTED EXIT LIGHT FIXTURES ABOVE DOOR. ALIGN BOTTOM OF LIGHT FIXTURE WITH MASONRY. REFER TO DETAILS FOR REQUIREMENTS.

GENERAL ELECTRICAL POWER NOTES:

A. DIMENSIONS INDICATED ARE TO BE VERIFIED AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.

PLUMBING

GENERAL PLUMBING NOTES:

A. COORDINATE EXACT LOCATION OF ALL FLOOR DRAINS WITH MECHANICAL EQUIPMENT LOCATION AND CONDENSATE DRAIN REQUIREMENTS PRIOR TO ANY INSTALLATION.

B. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTION.

C. PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES AND OTHER STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

D. PLUMBING CONTRACTOR SHALL EXTEND ALL CONDENSATE AND INDIRECT DRAINS FROM EQUIPMENT TO FLOOR DRAINS.

E. PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.

F. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION.

G. INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.

H. PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.

I. REFER TO OWNERS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.

J. ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

K. PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, WATER HAMMER ARRESTORS AND TRAP PRIMER VALVES IN OTHERWISE INACCESSIBLE AREAS.

SPECIAL SYSTEMS

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH MILLWORK. ALL INSTALLATIONS SHALL COMPLY WITH ADA REQUIREMENTS.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS BEFORE ANY ROUGH-IN IN ORDER TO COORDINATE MANUFACTURER'S DRAWINGS FOR EQUIPMENT LOCATION AND INSTALLATION ACCESSORIES.

C. COORDINATE RUNS FOR CONDUIT UP IN JOIST AND FOR SUSPENDING REQUIREMENTS IN ACCORDANCE WITH STRUCTURAL PLANS.

D. FURNISH DUCT SMOKE DETECTOR FOR RETURN DUCT. COORDINATE EXACT LOCATION IN ACCORDANCE MECHANICAL DRAWINGS. FURNISH AND INSTALL TEST SWITCH RECESSED TO CEILING, RIGHT BELOW LOCATION OF UNIT. LABEL "SMOKE DUCT DETECTOR TEST SWITCH". LABEL SHALL INCLUDE EQUIPMENT NAME ID TAG.

E. ALL CABLES ABOVE CEILING SHALL BE PLENUM RATED.

F. SEAL PENETRATION WITH FIRE PROOF SEALANT UL LISTED FOR FIRE WALLS. BOTH ENDS SHALL BE CHAMFERED FOR A NON SHARP EDGES.

G. ALL DATA-CONDUITS SHALL STUB-UP, ACCESSIBLE, ABOVE LAY-IN CEILING.

H. CONDUITS SHALL BE REAMED AND COMPLETED WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.

I. BETWEEN ANY TWO PULL POINTS THERE SHALL BE NO CONDUIT WITH GREATER THAN 180 DEGREES OF BENDS OR EQUIVALENT.

J. WHERE CONDUIT LENGTH EXCEEDS 100FT AND/OR TWO 90 DEGREE BENDS OR EQUIVALENT PROVIDE PULL BOXES AS REQUIRED.

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STATE OF TEXAS — J. GABRIEL HINOJOSA — 96585 — LICENSED PROFESSIONAL ENGINEER — 02-01-2024

STATE OF TEXAS — JOSE ANTONIO NICANOR — 108783 — LICENSED PROFESSIONAL ENGINEER — 02-01-2024

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TBPE Firm No. F-14767
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3:
4:

LINN – SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN–SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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SHEET: MEP-1.0

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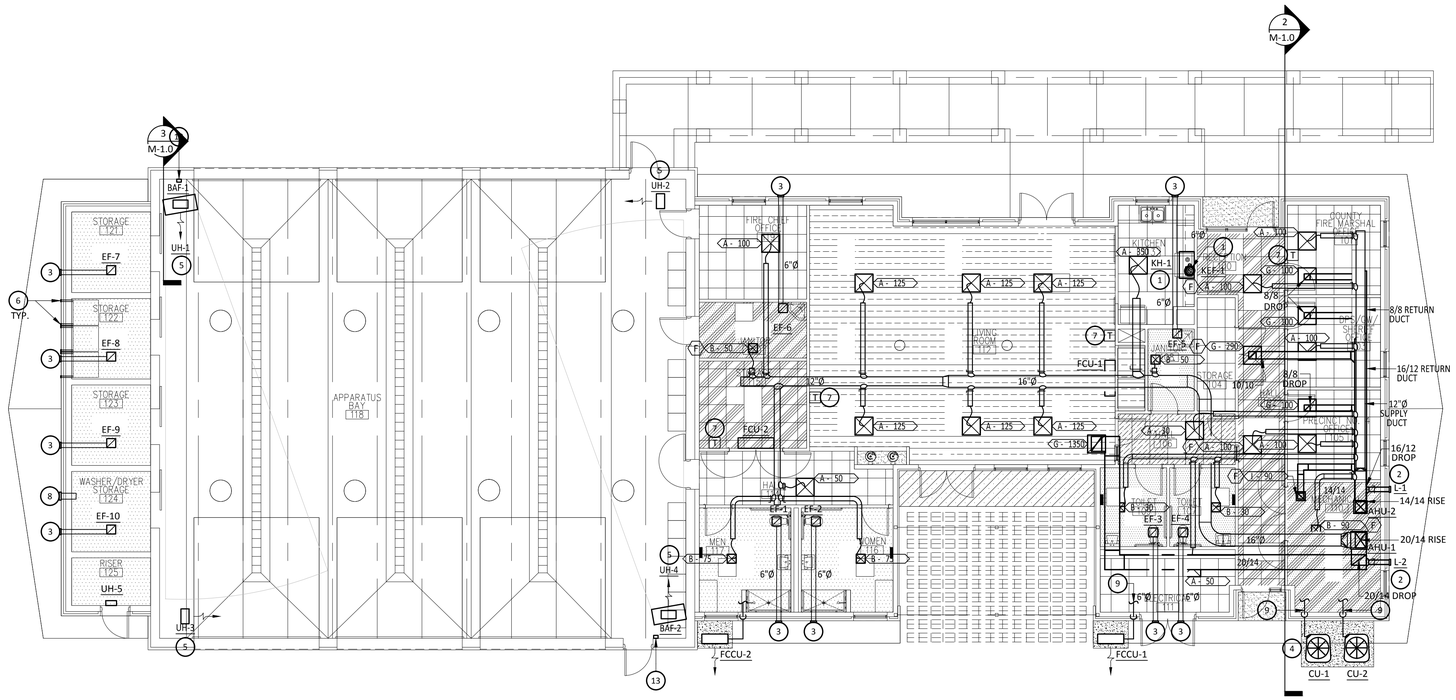
STORAGE 122
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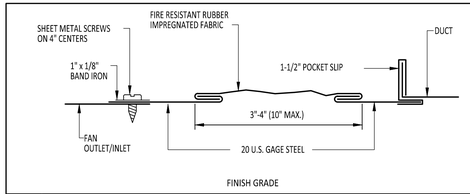
16/12 DROP
14/14 RISE
20/14 RISE
20/14 DROP
8/8 DROP
L-1
L-2
6"Ø
8"Ø
12"Ø
16"Ø
FIRE SPRINKLER RISER
FIRE SPRINKLER RISER
FIRE SPRINKLER RISER



1 FLEXIBLE CONNECTION DETAIL
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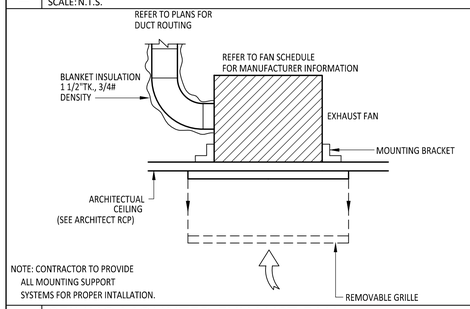

2 CEILING MOUNTED EXHAUST FAN
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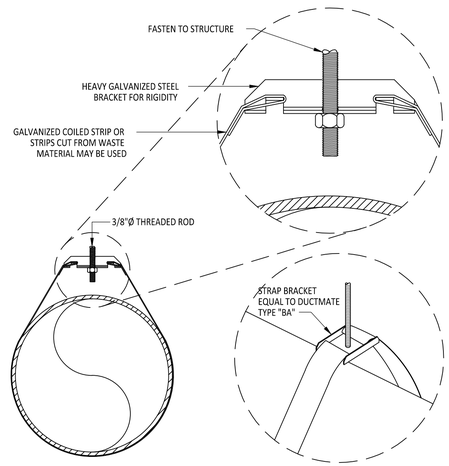

3 ROUND DUCT STRAP BRACKET
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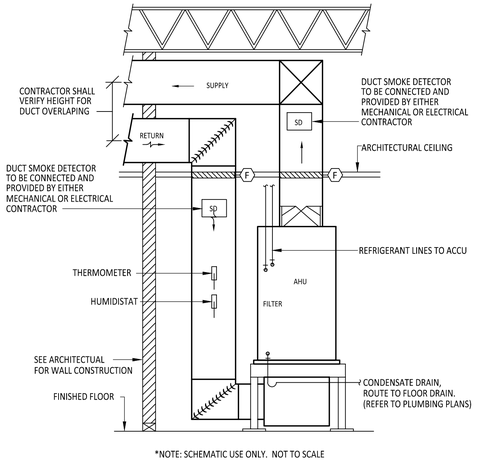

*NOTE: SCHEMATIC USE ONLY. NOT TO SCALE

4 FAN/COIL - SECTION VIEW
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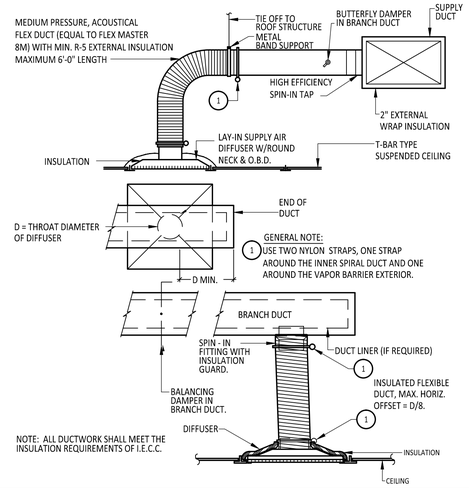

5 SUPPLY AIR DIFFUSER
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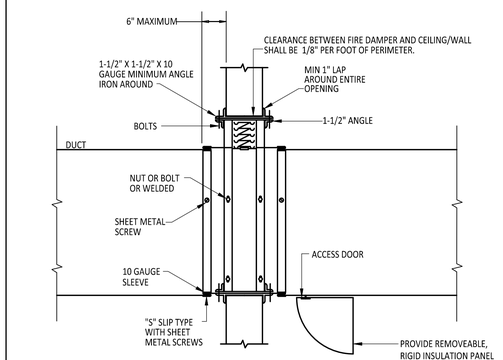

6 WALL/ CEILING FUSIBLE LINK FIRE DAMPER
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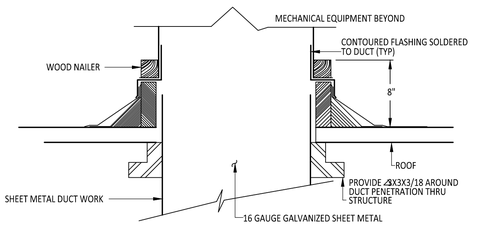

NOTE: PENETRATIONS THROUGH SKYLIGHTS SHALL BE MADE WATERPROOF. SEAL OPEN AREAS OF SKYLIGHT WITH SHEETMETAL AND PROVIDE SHEETMETAL CANT ANGLED TO DRAIN WATER AWAY FROM DUCT PENETRATION AND ONTO ROOF. ALL PENETRATIONS SHALL BE MADE IN ACCORDANCE WITH SMACNA MANUAL OR AS APPROVED BY THE CONTRACTING OFFICER.

7 DUCT ROOF PENETRATION
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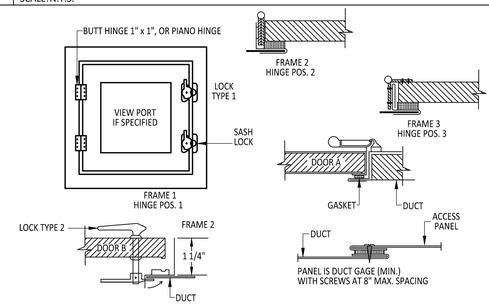
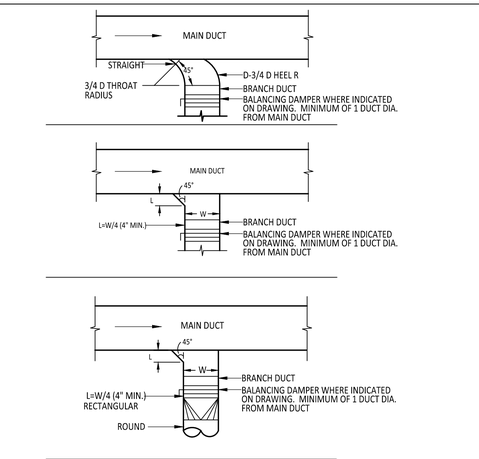


	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAGE FRAME	METAL GAGE DOOR	METAL GAGE BACK
2" W.G. STATIC AND LESS	12" x 12"	2	1-S	24	26	26
	16" x 20"	2	2-S	22	24	26
	24" x 24"	3	2-S	22	22	26
3" W.G. STATIC	12" x 12"	2	1-S	22	22	26
	16" x 20"	2	1-S,1-T,1-B	20	20	26
	24" x 24"	3	2-S,1-T,1-B	20	20	24
4" W.G. TO 10" W.G.	12" x 12"	2	1-S,1-T,1-B	20	20	26
	16" x 20"	3	2-S,1-T,1-B	18	18	24
	24" x 24"	3	2-S,2-T,2-B	18	18	24
S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM						

8 DUCT ACCESS DOOR DETAIL
SCALE: N.T.S.



9 TYPICAL BRANCH CONNECTION
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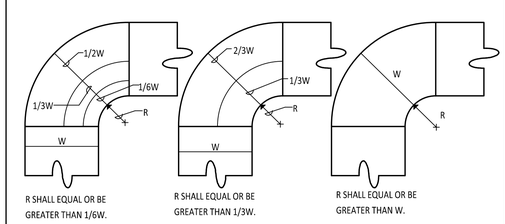
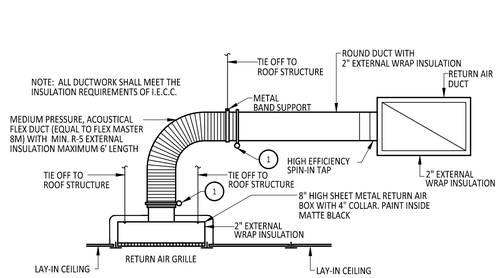


NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

10 RADIUS DUCT ELBOW DETAIL
SCALE: N.T.S.



1 USE TWO NYLON STRAPS -ONE STRAP AROUND INNER SPIRAL DUCT, ONE AROUND VAPOR BARRIER EXTERIOR.

11 RETURN AIR GRILLE BOX CONNECTION
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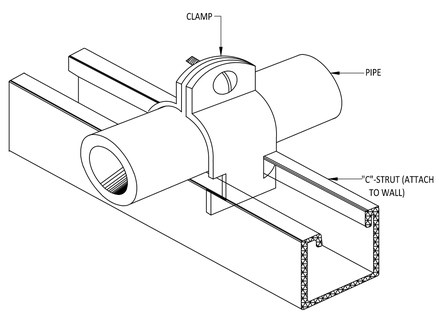

12 WALL SUPPORT DETAIL
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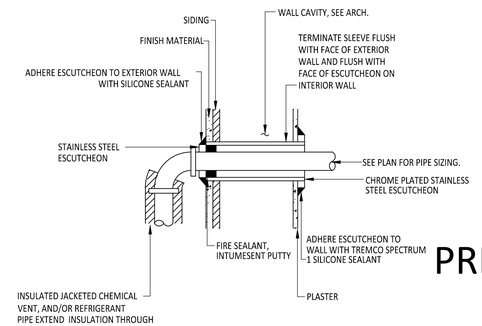

13 TYPICAL EXTERIOR WALL PENETRATION
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PROJECT: LINN – SAN MANUEL EMERGENCY SERVICES FACILITY PRECINCT NO. 4
OWNER: LINN–SAN MANUEL, TEXAS
HIDALGO COUNTY

STATE OF TEXAS · J. GABRIEL HINOJOSA · 96585 · LICENSED PROFESSIONAL ENGINEER

08-30-2011

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SPLIT DX UNIT SCHEDULE

AIR HANDLING UNIT															CONDENSING UNIT							EFFICIENCY
TAG	MANUF.	MODEL	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	E.S.P. (IN. WC)	POWER (HP)	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	EAT-DB °F	EAT-WB °F	LAT-DB °F	LAT-WB °F	ELECTRIC HEAT (KW)	VOLTAGE	MCA	MOCP	TAG	MANUF.	MODEL	AMBIENT AIR TEMP. °F	VOLTAGE	MCA	MOCP	EER (SEER)
SDX-1	TRANE	GAM5B0	1500	140	0.6	0.75	46,000	33,755	77	64	55.2	53.7	7	208/3	51	60	SDXCU-1	TRANE	4TTR6048B1	100	208/3	26	45	15.5
SDX-2	TRANE	GAM5B0	730	70	0.6	0.33	21,600	16,010	77	64	55.6	54.3	4	208/1	25	25	SDXCU-2	TRANE	4TTR6024B1	100	208/3	9	15	16.25

NOTES:

1. PROVIDE WITH SINGLE POINT POWER FOR INDOOR UNIT AND INDEPENDENT SINGLE POINT POWER FOR OUTDOOR UNIT.
2. SPACE MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT TO BE PROVIDED BY UNIT MANUFACTURER.
3. PROVIDE TUBULAR STEEL SUPPORT FRAME FOR AIR HANDLING UNIT.
4. CONTACT RIGO GARZA FOR TRANE PRODUCTS AT 956-447-1795.
5. PROVIDE DUAL CIRCUIT CONDENSING UNIT SDXCU-1
6. PROVIDE SINGLE CIRCUITE CONDENSING UNIT FOR SDXCU-2

UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	ELECTRIC HEAT	ELECTRICAL			PERFORMANCE			REC	APPROX.
				KW	VOLTS/Ø/HZ.	AMPS	CONTROL VOLTAGE	TEMP. RISE (°F)	AIR THROW	CFM	MOUNTING HEIGHT	WEIGHT (LBS.)
UH-1	REDDI	F3FUH07C03	APPARATUS BAY 118	7.5	208/3/60	21	208	42	36'	575	9'	44
UH-2	REDDI	F3FUH07C03	APPARATUS BAY 118	7.5	208/3/60	21	208	42	36'	575	9'	44
UH-3	REDDI	F3FUH07C03	APPARATUS BAY 118	7.5	208/3/60	21	208	42	36'	575	9'	44
UH-4	REDDI	F3FUH07C03	APPARATUS BAY 118	7.5	208/3/60	21	208	42	36'	575	9'	44
UH-5	REDD-i	F2F5103N	FIRE RISER	3.3	208/3/60	6.9	208	26	12'	400	9'	25

NOTES:

1 . INTEGRAL DISCONNECT SWITCH.
2 . UNIT-MOUNTED THERMOSTAT.
3 . OVERHEAT PROTECTION, AUTOMATIC RESET TYPE.
4 . HORIZONTAL DISCHARGE CONFIGURATION.
5 . WALL/CEILING BRACKET.

MECHANICAL GENERAL LEGEND DUCTWORK SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ACCESS DOOR	AD	AD
BACKDRAFT DAMPER	BDD	BDD
FIRE DAMPER	(F)	(F)
FLEXIBLE CONNECTION	FC	FC
MOTORIZED DAMPER	M	M
CONTROL DAMPER	CD M	CD M
VOLUME DAMPER, MANUAL	VD	VD
DUCT ELBOW WITH TURNING VANES		
DUCT SECTION - SUPPLY AIR		
DUCT SECTION - EXHAUST AIR		
DUCT SECTION - RETURN, OUTSIDE, OR RELIEF AIR		
DUCT, INCLINED DROP		
DUCT, INCLINED RISE		
FLEXIBLE DUCT - ROUND	8"Ø	
DUCT TRANSITION	14/10 → 10/10	14/10 → 10/10
DUCT TRANSITION (SQUARE OR RECTANGULAR TO ROUND)	10/10 → 8"Ø	12/12 → 8"Ø
RECTANGULAR DUCT, SIZE IN INCHES, FIRST DIMENSION IS SIDE SHOWN (NET CLEAR INSIDE DIMENSION)	10/14	10/14

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ROUND DUCT, DIAMETER IN INCHES (NET CLEAR INSIDE DIMENSION)	8"Ø	8"Ø
AIR FLOW IN DIRECTION OF ARROW		
45° BRANCH TAKE-OFFS		
CONICAL LATERAL BRANCH TAKE-OFFS		
CEILING SUPPLY DIFFUSERS		
DIRECTION SUPPLY GRILLE, HATCH INDICATES BLOCKED QUADRANT		
CEILING RETURN GRILLE/REGISTER		
CEILING EXHAUST FAN (EF-_)		EF-_
CEILING EXHAUST GRILLE/REGISTER		
SIDEWALL SUPPLY GRILLE/REGISTER		
SIDEWALL RETURN/EXHAUST GRILLE/REGISTER		
EXTRACTOR		
DUCT TEE WITH SPLITTER DAMPER		
DOOR UNDERCUT	UC	UC
DOOR LOUVER	L	L

MISCELLANEOUS SYMBOLS

(P)	DUCT STATIC PRESSURE SENSOR
SD	DUCT SMOKE DETECTOR
CO_2	CARBON DIOXIDE SENSOR
	NEW CONNECTION TO EXISTING
(H)	HUMIDISTAT
RH	RELATIVE HUMIDITY SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR (MOUNT 48" AFF)
T	DUCT TEMPERATURE SENSOR
TC	TIME CLOCK
F	FREEZESTAT

DIFFUSER, GRILLE OR REGISTER MARK
A - 200 / 12 X 8 — AIR FLOW (CFM) / RECTANGULAR FACE SIZE (WHERE APPLICABLE)
01 / M2.01 — DIRECTION OF SECTION; IDENTIFYING NUMBER OR LETTER FOR SECTIONS; NUMBER OF REFERENCE DRAWING WHERE SECTION IS SHOWN.
01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR DETAILS; NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.
ENLARGED DETAIL REFERENCE
MATCHLINE
LINE WITH HATCHING DESIGNATES DEMOLITION WORK

LOUVER SCHEDULE

MARK	SERVES	CFM	WIDTH (IN)	HEIGHT (IN)	MINIMUM FREE AREA (FT2)	PD AT 750 FPM (" w.g.)	MANUF. MODEL
L-1	AHU-1	140	12	12	0.25	0.05	RUSKIN EME520DD
L-2	AHU-2	70	12	12	0.25	0.05	RUSKIN EME520DD

NOTES:

1. FINISH SHALL BE KYNAR FINISH. PAINT COLOR BY ARCHITECT. COORDINATE FINAL ELEVATION LOCATION WITH ARCHITECT.
2. LOUVER SHALL PROVIDE MINIMUM 99% EFFECTIVENESS IN PREVENTING WATER PENETRATIONIN WIND DRIVEN RAIN TEST (29 mph, 3 in/hr).

GRILLE/DIFFUSER/REGISTER SCHEDULE

MARK	SERVICE	DESCRIPTION	MANUFACTURER MODEL NO.	MAX. NC. LEVEL (1)	REMARKS
A	SUPPLY	24"X24" MODULE SIZE, ALUMINUM, LOUVERED, LAY IN DIFFUSER WITH 4 WAY THROW, ROUND NECK, FACE SIZE AS INDICATED BELOW.	PRICE AMD	30	WHITE FINISH
B	SUPPLY	12"X12" MODULE SIZE, ALUMINUM, LOUVERED, SURFACE-MOUNTED DIFFUSER WITH 4-WAY THROW, ROUND NECK, FACE SIZE AS INDICATED BELOW.	PRICE AMD	30	WHITE FINISH
G	RETURN	24"X24" EGGCRATE FACE, CEILING RETURN GRILL WITH BORDER FOR LAY-IN CEILING, ALUMINUM CONSTRUCTION.	PRICE 80	30	WHITE FINISH
I	RETURN	12"X12" EGGCRATE FACE, CEILING RETURN GRILLE, SURFACE MOUNTED, ALUMINUM CONSTRUCTION.	PRICE 80	30	WHITE FINISH

(F) =THIS WILL DESIFNATE A STEEL FIRE RATED AIR DEVICE TYPE.

CBA = COLOR BY ARCHITECT

* = SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

AIR OUTLET DESIGNATION ON PLANS: MARK — A - 200 / 12 X 8 — AIR FLOW (CFM / RECTANGULAR FACE SIZE (WHERE APPLICABLE)

CAPACITY	FACE	NECK/FLEXIBLE CONNECTION
0-150	6 X 6	6"
151-285	9 X 9	8"
286-440	12 X 12	10"
441-550	12 X 12	12"
551-750	15 X 15	14"
750-1000	18 X 18	16"

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

EXHAUST FAN SCHEDULE

MARK	CFM	SERVICE	LOCATION	TYPE	RPM	ESP	HP	DRIVE	VOLTAGE	MAX. SONES	CONTROL	MANUFACTURER	MODEL	NOTES
EF-1	100	MENS 117	CEILING	CABINET	1050	0.5	129 WATTS	DIRECT	120/1	4.5	LIGHTS	GREENHECK	SP-B150	1-4
EF-2	100	WOMENS 116	CEILING	CABINET	1050	0.5	129 WATTS	DIRECT	120/1	4.5	LIGHTS	GREENHECK	SP-B150	1-4
EF-3	100	TOILET 109	CEILING	CABINET	1050	0.5	129 WATTS	DIRECT	120/1	4.5	LIGHTS	GREENHECK	SP-B150	1-4
EF-4	100	TOILET 107	CEILING	CABINET	1050	0.5	129 WATTS	DIRECT	120/1	4.5	LIGHTS	GREENHECK	SP-B150	1-4
EF-5	100	JAN. 120	CEILING	CABINET	1050	0.5	129 WATTS	DIRECT	120/1	4.5	LIGHTS	GREENHECK	SP-B150	1-4
EF-6	100	JAN. 108	CEILING	CABINET	1050	0.5	129 WATTS	DIRECT	120/1	4.5	LIGHTS	GREENHECK	SP-B150	1-4
EF-7	400	STORAGE 121	CEILING	CABINET	1070	0.5	240 WATTS	DIRECT	120/1	4	LIGHTS	GREENHECK	SP-A510	1-4
EF-8	100	STORAGE 122	CEILING	CABINET	1070	0.5	240 WATTS	DIRECT	120/1	4	LIGHTS	GREENHECK	SP-A510	1-4
EF-9	100	STORAGE 128	CEILING	CABINET	1070	0.5	240 WATTS	DIRECT	120/1	4	LIGHTS	GREENHECK	SP-A510	1-4
EF-10	100	WASHER/DRYER STOARAGE 124	CEILING	CABINET	1070	0.5	240 WATTS	DIRECT	120/1	4	LIGHTS	GREENHECK	SP-A510	1-4

NOTES:

1. FAN SHALL HAVE INTEGRAL DISCONNECT SWITCH FROM FACTORY.
2. FAN SHALL BE PROVIDED WITH BACK DRAFT DAMPER.
3. FAN SHALL BE PROVIDED WITH FACTORY MOUNTED FAN SPEED CONTROL.
4. FAN SHALL BE PROVIDED HOODED WALL CAP WITH ROUND CONNECTION EQUAL TO GREENHECK MODEL WC-6.

BIG ASS FAN SCHEDULE

TAG	MANUFACTURER	DESCRIPTION	WEIGHT	MOTOR	RPM	VOLT/PH	FLA	CIRCUIT SIZE	NOTES
BAF-1	BIG ASS FANS	14' POWERFOIL X 2.0	309 lbs	1.5 HP	95	208V/3	3 A	15 A	A,B,C,D,E,F
BAF-2	BIG ASS FANS	YELLOWJACKET	105 lbs	0.5 hp	300-1160	208V/1	6.8 A	15 A	F,G
BAF-3	BIG ASS FANS	YELLOWJACKET	105 lbs	0.5 hp	300-1160	208V/1	6.8 A	15 A	F,G

NOTES:

A. VERIFY EXTENISON TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
B. SUPPLY WITH POWERFOIL AIRFOILS AND WINGLETS.
C. SUPPLY WITH WALL MOUNTED DIGITAL WALL KEYPAD CONTROLLER FULLY INTEGRATED WITH THE ONBOARD CONTROLLER.
D. SUPPLY WITH C-FACED MOTOR AND HERMETICALLY SEALED GEARBOX.
E. EXTENSION TUBES 4' OR LONGER SHALL BE INSTALLED WITH GUY WIRES PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
F. CONTACT BIG ASS FANS AT 877-244-3267 FOR PRICING INFORMTION AND FACTORY INSTALLATION SCOPE OF WORK.
G. PORTABLE BASE WITH 8" SHATTER-RESISTANT WHEELS.

MINIMUM FAN PLACEMENT REQUIREMENTS:

1. BOTTOM OF FAN SHOULD BE AT LEAST 10' AFF FOR POWERFOIL.
2. FAN SHOULD BE AT LEAST 2' AWAY, IN ANY DIRECTION, FROM ANY POSSIBLE OBSTRUCTIONS
3. FANS SHOULD NOT BE MOUNTED WITHIN TWO FAN DIAMETERS OF ANY LARGE AIR MOVING EQUIPMENT.
4. FANS SHALL BE AT THE SAME ELEVATION LEVEL OR HIGHER THAN RADIANT HEATERS AND OUTSIDE THE MINIMUN CLEARANCE TO COMBUSTIBLES

KITCHEN HOOD SCHEDULE

TAG	MANUFACTURER	MODEL	WIDTH	FAN TYPE	VENTING	CFM	MAX. DUCT LENGTH
HOOD: KH-1 FAN: KEF-1	DENLAR	D1036-I_-DF (NFPA101)	36	IN-LINE DUCT FAN	VERTICAL DUCT	510	35 FEET

NOTES:

1 NFPA 101 UPGRADE PACKAGE
2 UNIT SHALL BE WALL MOUNTED SO THAT THE BOTTOM OF THE MOUNTING BRACKET SITS 18" TO 26" ABOVE THE COOK TOP.
3 UNIT SHALL BE OF STAINLESS STEEL CONSTRUCTION (#18 & #20GA, POLISHED 304) W/ NO SHARP EDGES AND BRUSHED FINISH.
4 UNIT SHALL HAVE FIRE SUPPRESSION SYSTEM FACTORY INSTALLED.
5 ACTIVATION OF THE MECHANICAL FIRE SUPPRESSION SYSTEM SHALL BE BY 212 OR 280 DEGREE FUSIBLE LINK (30" VS 36").
6 WET CHEMICAL EXTINGUISHING AGENT: LOW PH AMEREX 660 (PRESSURIZED POTASSIUM CITRATE / POTASSIUM ACETATE MIX).
7 UNIT SHALL HAVE CENTRIFUGAL FAN WITH AIR DELIVERY OF 380 TO 610 CFM, FAN SPEED CONTROLLER WILL BE INFINITELY VARIABLE.
8 UNIT SHALL BE ETL LISTED, TESTED TO UL300A STANDARDS, FAN MOTOR SHALL BE PERMANENTLY LUBRICATED AND MEET UL507.
9 UNIT SHALL INCLUDE A FUEL SHUT-OFF DEVICE FOR GAS & ELECTRIC APPLIANCES, ACTIVATED AT SUPPRESSION SYSTEM DISCHARGE.
10 UNIT SHALL ALSO AUTOMATICALLY DISCONNECT RANGE ELEMENT ONCE A CERTAIN PRE-SET TEMPERATURE IS REACHED.
11 UNIT SHALL HAVE MULTIPLE ALARM CONTACTS PRE-INSTALLED (LOCAL, REMOTE & TROUBLE ALARMS) AND AN AUDIBLE BUZZER.
12 LIGHTING SHALL BE BY 60 WATT SHATTER-PROOF BULB.

DUCTLESS SPLIT SYSTEM SCHEDULE

FAN COIL UNIT	
INDOOR UNIT MARK	FCU-1
INDOOR UNIT TYPE	WALL
MAX SUPPLY CFM	600
MINIMUM O/A (CFM)	N/A
ENTERING AIR (DB/WB)	78/64
TOTAL COOLING CAP. (BTUH)	22000
SENSIBLE COOLING CAP. (BTUH)	15400
HEATING CAPACITY (BTUH)	22000
VOLTAGE/PHASE	208/1
MCA	N/A
MAX. FUSE SIZE	N/A
FLA	0.2
MANUFACTURER	LG
MODEL NO.	LSN240H
WEIGHT (LBS)	28
CONDENSING UNIT	
OUTDOOR UNIT MARK	FCCU-1
VOLTAGE/PHASE	208/1
MCA	14
MAX. FUSE SIZE (AMPS)	20
POWER FACTOR (%)	91.5
AMB. AIR TEMP. (CLG°F/HTG°F)	95/47
REFRIGERANT	R-410A
COOLING MODE OPER. RANGE	64°F - 118°F
HEATING MODE OPER. RANGE	23°F - 75°F
MANUFACTURER	LG
MODEL NO.	LSU240H
WEIGHT (LBS)	92
EER (SEER)	(17.0)
HTG EFF. (HSPF)	8.5
MAX EQUIV. LINE LENGTH (FT)	66
MAX. VERTICAL RISE (FT)	32.8

NOTES:

1 ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
2 PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS.
3 CONTRACTOR TO PROVIDE 4" CONCRETE PAD TO ANCHOR MOUNT CONDENSING UNIT.
4 BOTH LIQUID AND SUCTION LINES MUST BE INSULATED (1/2" FLEXIBLE ELASTOMERIC IS ACCEPTABLE).
5 SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED ON DAIKIN EQUIPMENT.
6 PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
7 INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.
8 PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE THERMOSTAT IN LIEU OF WIRELESS REMOTE.
9 PROVIDE CONDENSATE PUMP, FACTORY MOUNTED OR FIELD WIRED TO INDOOR UNIT (SINGLE POINT POWER).
10 PROVIDE INDOOR UNIT WITH 3 STAGE AIRFLOW CONTROL (H/M/L).

PRE-BID SET

NOT FOR CONSTRUCTION

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TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

PROJECT #: 13023
DATE:
DRAWN BY: J.V.
CHECKED BY: G.H.
REVISION:
1:
2:
3:
4:

LINN – SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN–SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · J. GABRIEL HINOJOSA · 96585 · LICENSED PROFESSIONAL ENGINEER
08-Dec-2014

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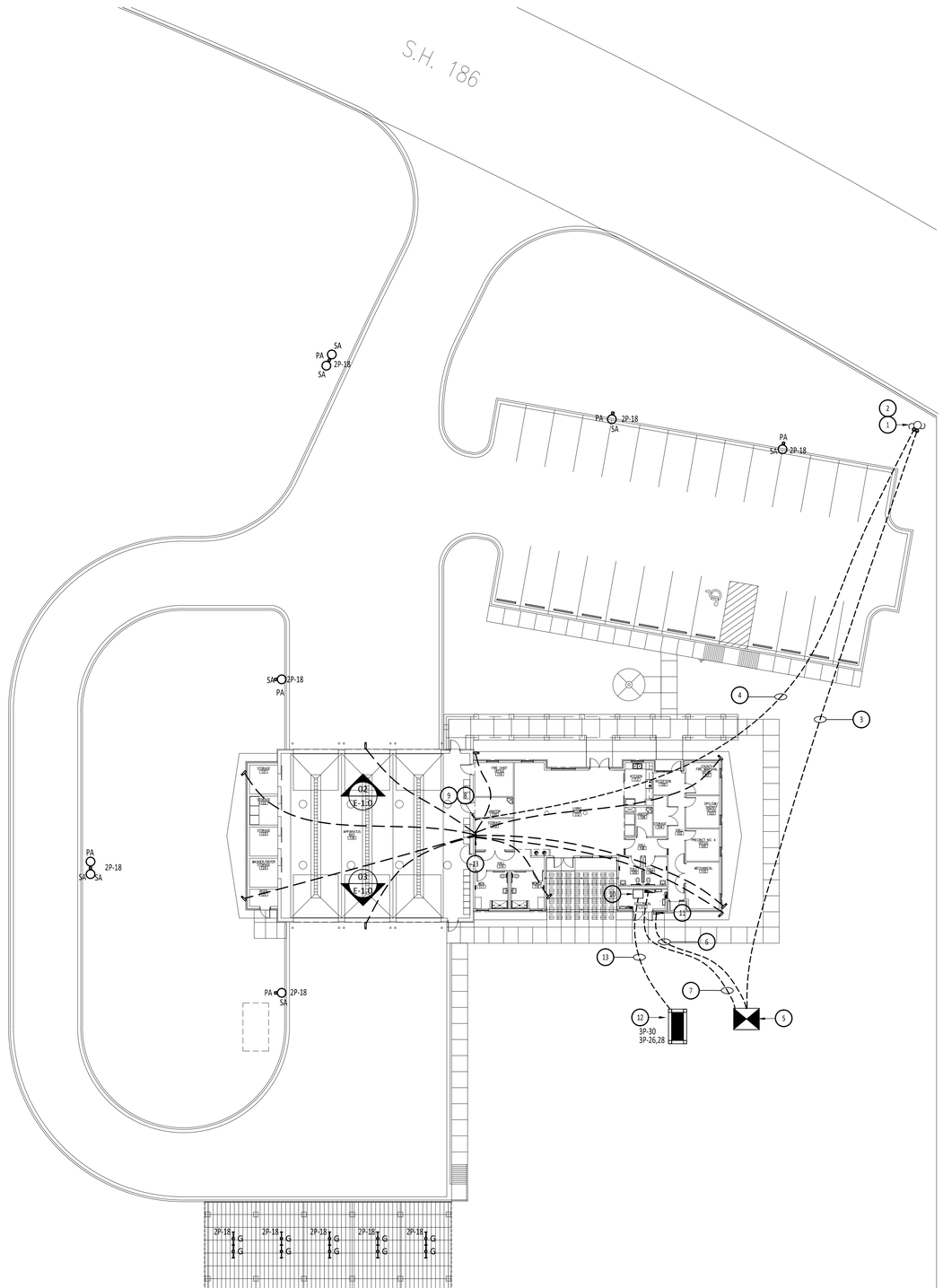
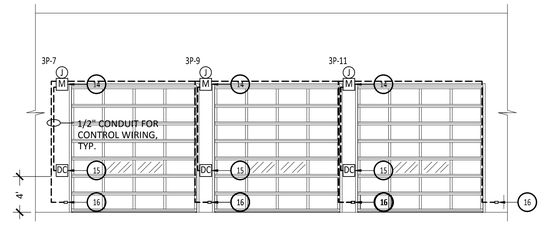
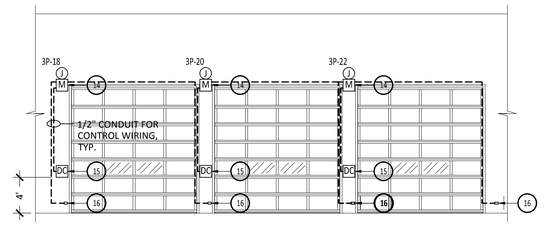


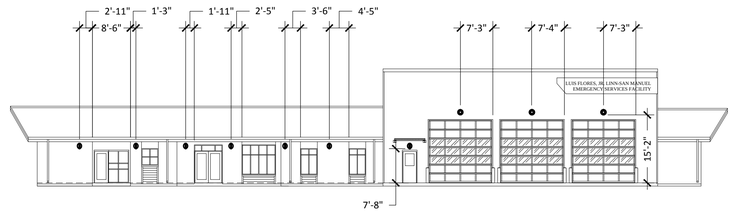
1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"



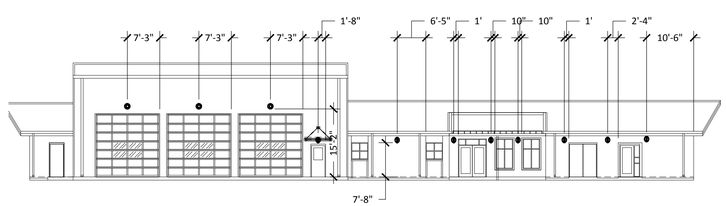
2 NORTH OVERHEAD DOORS INTERIOR ELEVELATION
SCALE: N.T.S



3 SOUTH OVERHEAD DOORS INTERIOR ELEVELATION
SCALE: N.T.S



4 NORTH BUILDING ELEVATION
SCALE: N.T.S



5 SOUTH BUILDING ELEVATION
SCALE: N.T.S.

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. APPROXIMATE LOCATION OF UTILITY POWER RISER POLE/UNDERGROUND PRIMARY.
2. APPROXIMATE LOCATION OF TELEPHONE RISER POLE/UNDERGROUND PRIMARY SERVICES.
3. FURNISH AND INSTALL 4-INCH CONDUIT WITH NYLON PULL CORD FOR PRIMARY ELECTRICAL SERVICE. CONDUIT MINIMUM DEPTH SHALL BE 48-INCHES TO TOP OF CONDUIT.
4. FURNISH AND INSTALL 4-INCH CONDUIT WITH NYLON PULL CORD FOR TELEPHONE SERVICE. CONDUIT MINIMUM DEPTH SHALL BE 24-INCHES TO TOP OF CONDUIT.
5. APPROXIMATE LOCATION OF UTILITY PAD MOUNTED TRANSFORMER.
6. FURNISH AND INSTALL 1/2- INCH PVC CONDUIT FOR METERING CABLE. MINIMUM DEPTH OF 36- INCHES TO TOP OF CONDUIT.
7. ELECTRICAL SERVICE ENTRANCE CONDUCTORS. REFER TO RISER DIAGRAM FOR CONDUIT AND CABLING REQUIREMENTS. MINIMUM DEPTH OF 36-INCHES TO TOP OF CONDUIT.
8. APPROXIMATE LOCATION OF TELEPHONE DEMARCATIONS. REFER TO DETAILS FOR INTER-SYSTEMS GROUNDING REQUIREMENTS.
9. FURNISH AND INSTALL QTY.(1) 4-INCH RIGID METAL CONDUIT WITH 200 LB NYLON PULL CORD 12-INCHES FROM WEST WALL. CONDUIT SHALL BE PAINTED BLUE AND SHALL EXTEND 4-INCHES ABOVE CONCRETE FOUNDATION SLAB.
10. APPROXIMATE LOCATION OF AUTOMATIC TRANSFER SWITCH.
11. APPROXIMATE LOCATION OF STANDBY GENERATOR. FURNISH AND INSTALL CIRCUITS FOR BLOCK HEATER AND BATTERY CHARGER CONSISTING OF 2#10, 1#10G, 3/4 INCH CONDUIT FOR BLOCK HEATER AND 2#12, 1#12G, 1/2 INCH CONDUIT FOR BATTERY CHARGER.
12. STANDBY ELECTRICAL SERVICE CONDUCTORS. REFER TO RISER DIAGRAM FOR CONDUIT AND CABLING REQUIREMENTS. MINIMUM DEPTH OF 36-INCHES TO TOP OF CONDUIT.
13. FURNISH AND INSTALL CAMERA WIREWAY NEMA 1, 16"L X 8"H X 8"W. FURNISH WITH STRESS RELIEF CABLE J-HOOKS. INSTALL QTY.(2) 4-INCH CONDUITS FROM WIREWAY TO TELECOM CABINET. REFER TO DETAILS FOR MOUNTING REQUIREMENTS.
14. ELECTRIC MOTOR OPERATOR.
15. OVERHEAD DOOR OPERATOR CONTROLS.
16. ENTRAPMENT PROTECTION SENSORS. EXTEND CABLING TO BUMPER SENSORS AS REQUIRED.

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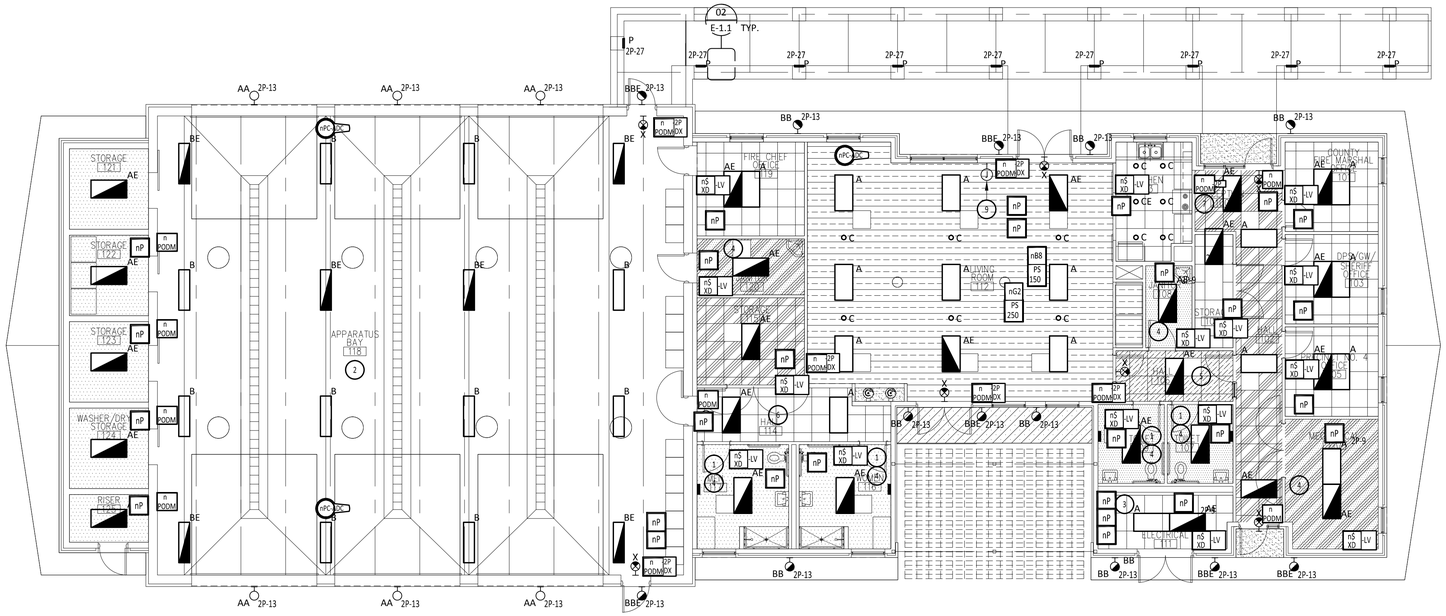


LIGHTING CONTROLS LEGEND:

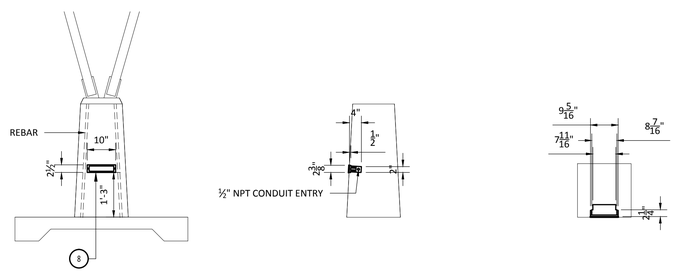
- nB8 PS 150 — NBRG 8 KIT
  BRIDGE-8 PORT WITH 150
  MA POWER SUPPLY
- nG2 PS 150 PS 150 — NGWY2 KIT
  NGATEWAY2 KIT CONSISTS OF A NGWY2 CTRL UNIT, A NGATEWAY2 GFX, TWO PS 150 (150 MA POWER SUPPLY), SENSORVIEW SOFTWARE MAX DEVICES 1500
- n PODM — NPODM [COLOR]
  1 CHANNEL ON/OFF TOGGLE
- n PODM 2P — nPODM 2P [COLOR]
  2 CHANNEL ON/OFF TOGGLE
- n PODM 2P DX — NPODM 2P DX [COLOR]
  2 CHANNEL ON/OFF TOGGLE WITH DIMMING
- nS XD LV — NWSX PDT LV [COLOR]
  WALL SWITCH DECORATOR SENSOR, DUAL TECHNOLOGY (PDT), LOW VOLTAGE
- nPC ADC — NCM PC ADC
  COMBINATION ON/OFF & AUTOMATIC DIMMING CONTROL PHOTOCELL-CEILING MOUNT, LOW VOLTAGE
- nP — nPP16
  POWER PACK: 120/277 VAC

NOTES

1. SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D)
2. "ILLUMINATION. ILLUMINATION SHALL BE PROVIDED FOR ALL WORKING SPACES ABOUT SERVICE EQUIPMENT, SWITCHBOARDS, PANELBOARDS, OR MOTOR CONTROL CENTERS INSTALLED INDOORS. ADDITIONAL LIGHTING OUTLETS SHALL NOT BE REQUIRED WHERE THE WORK SPACE IS ILLUMINATED BY AN ADJACENT LIGHT SOURCE OR AS PERMITTED BY 210.70(A)(1), EXCEPTION NO. 1, FOR SWITCHED RECEPTACLES. IN ELECTRICAL EQUIPMENT ROOMS, THE ILLUMINATION SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY."
3. SENSOR PLACEMENT AND TYPES WERE PLACED WITH CURRENT PROJECT INFORMATION. ADDITIONAL SENSORS AND TYPES OF SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON DRAWING CHANGES, EMS/BMS, FINAL PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.
4. CEILING MOUNTED EXTENDED RANGE 360° SENSORS: FOR MAXIMUM DISTANCE ROTATE TO SENSOR CLOCKWISE SO THAT THE SCREW AXIS IS POSITIONED 7.5° OFF THE ENTRANCE AXIS. WHEN WALKING ACROSS A SENSOR'S BEAM, DETECTION WILL OCCUR AT APPROXIMATELY 28', WHEN WALKING DIRECTLY INTO A SENSOR'S BEAM, DETECTION WILL OCCUR AT APPROXIMATELY 24'. (REFER TO CUT SHEET FOR PICTORIAL OF ALIGNMENT)
5. SENSOR MASKING KITS MAY BE REQUIRED TO LIMIT COVERAGE DEPENDING ON YOUR REQUIREMENTS.
6. FURNISH ALL WIRING DEVICES WITH WHITE FINISH.

SENSOR FEATURE OPTIONS		WALL SWITCH/POD COLOR OPTIONS	
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
ADC	PHOTOCELL WITH DIMMING	IV	IVORY
D	DIMMING	GR	GREY
R	RELAY	WH	WHITE
DZ	DUAL ZONE	AL	ALMOND
LV	LOW VOLTAGE	SENSOR ACCESSORIES	
LT	LOW TEMP	NAME	DEFINITION
NL	NIGHT LIGHT	WV BR	WIDE VIEW CEILING MOUNTING BRACKET
P	PHOTOCELL	FB1	DEEP FIXTURE BRACKET
PDT	PASSIVE DUAL TECHNOLOGY	FB2	DEEP FIXTURE BRACKET WITH HARDWARE
V	VANDAL RESISTANT		
2P	2 POLE		
347	347 VOLT		
208	208 OR 240 VOLT		
480	480 VOLT		

1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



FRONT VIEW — SECTION VIEW — PLAN VIEW

2 CANOPY COLUMN DETAIL
SCALE: N.T.S.

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. POWER PACKS TO BE USED TO CONTROL RESTROOM EXHAUST FAN. FAN SHALL REMAIN ON 5 MINUTES AFTER LIGHTS ARE TURNED OFF. POWER PACK WILL ALSO CONTROL THE COVE LIGHT FIXTURE TYPE C.
2. FURNISH AND INSTALL LIGHT FIXTURES IN THIS SPACE AT 20' AFF.
3. nPOD 2P SHALL CONTROL EXTERIOR LIGHTING. REFER TO DETAILS FOR REQUIREMENTS.
4. FURNISH FIXTURES WITH FLANGE KIT.
5. THIS FIXTURE SHALL BE CONTROLLED WITH HALL LIGHTING 102.
6. THESE LIGHT FIXTURE SHALL BE CONTROLLED WITH LIVING ROOM 112.
7. THIS LIGHT SWITCH SHALL CONTROL EXTERIOR LIGHTING.
8. RECESSED WALL LUMINAIRE. COORDINATE WITH STRUCTURAL COLUMN DETAILS TO AVOID CONFLICT WITH STEEL REBAR. ELECTRICAL CONTRACTOR SHALL FURNISH ALL ROUGH-IN CONCEALED WITHIN CONCRETE COLUMNS. SURFACE MOUNTED J-BOXES, AND CONDUIT WILL NOT BE ACCEPTABLE.
9. FURNISH AND INSTALL SINGLE GANG BOX FOR SOLATUBE DIMMING CONTROL 22 GAUGE CABLING AND WIRING DEVICE (DIMMER) SHALL BE BY SOLATUBE MANUFACTURER. CONDUIT AND ELECTRICAL CONNECTIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. ROUTE CABLING AND 1/2-INCH CONDUIT TO DIMMER CONTROL BOX LOCATED AT THE SOLATUBE.

PRE-BID SET

NOT FOR CONSTRUCTION

SIGMAHN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

PROJECT #: 13023
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CHECKED BY: J.A.N.
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1:
2:
3:
4:

LINN – SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN–SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER · 04/04/2020

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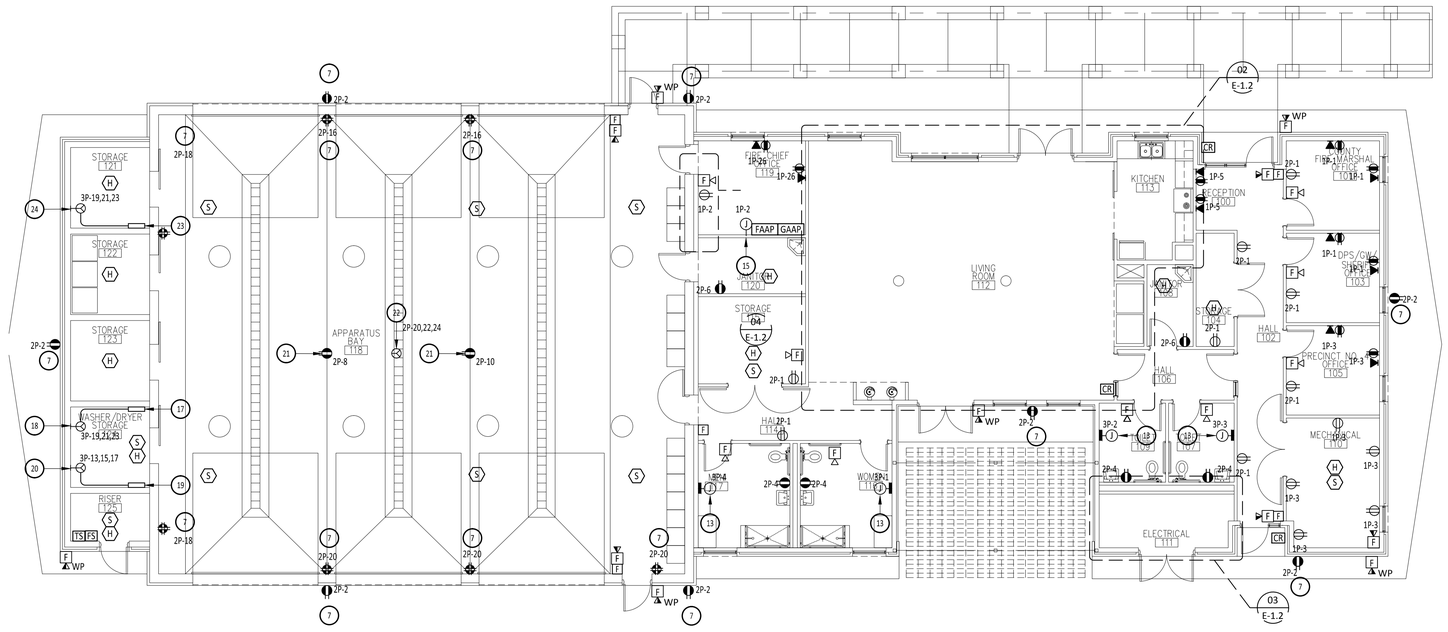
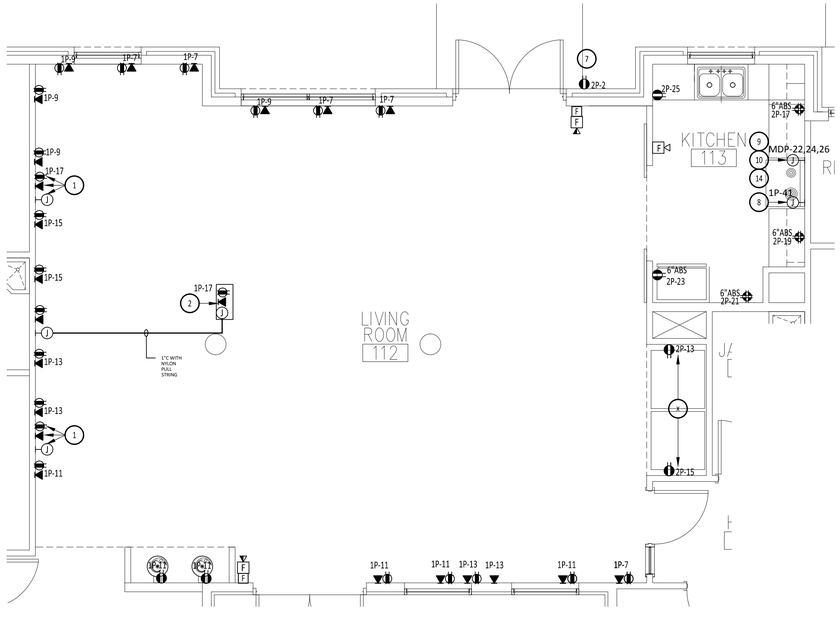


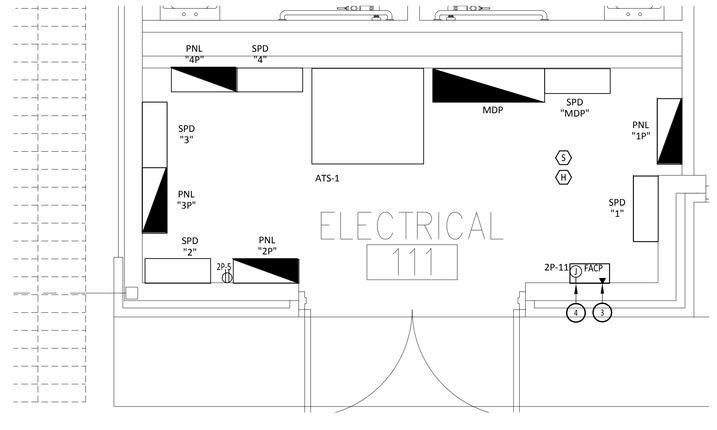
1 ELECTRICAL POWER AND SPECIAL SYSTEMS PLAN

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



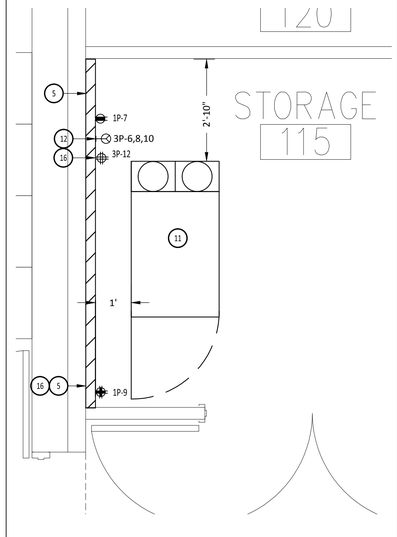
2 ELECTRICAL POWER AND SPECIAL SYSTEMS ENLARGMENT PLAN

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



3 ELECTRICAL EQUIPMENT ENLARGMENT PLAN

SCALE: 1/2" = 1'-0"



4 TELECOM. EQUIP. PLAN

SCALE: 1/2" = 1'-0"

KEY NOTES:

1. FURNISH AND INSTALL QTY.(2) 4-INCH SQUARE BOX WITH MUD RING ADAPTERS FOR SINGLE FACE PLATE FOR TELEVISION AUDIO/VIDEO DEVICES. MOUNT AT ONE (1) 96-INCHES ABOVE FINISH FLOOR. MOUNT ONE (1) AT 15-INCHES ABOVE FINISH FLOOR. FURNISH AND INSTALL 1-INCH CONDUIT BETWEEN J-BOXES.
2. APPROXIMATE LOCATION OF CEILING MOUNTED PROJECTOR MOUNTING RECESSED AUDIO/VIDEO J-BOX AND RECESSED RECEPTACLE. FURNISH AND INSTALL 4-INCH SQUARE J-BOX FOR AUDIO/VIDEO.
3. FURNISH AND INSTALL TWO TELEPHONE DROPS FOR FIRE ALARM. MOUNT AT THE SAME ELEVATION OF THE FIRE ALARM CONTROL PANEL.
4. FURNISH AND INSTALL J-BOX FOR POWER TO FIRE ALARM CONTROL PANEL. MOUNT AT THE SAME ELEVATION OF THE FIRE ALARM CONTROL PANEL.
5. APPROXIMATE LOCATION OF TELEPHONE BACK BOARD.
6. FURNISH AND INSTALL QTY.(1) 4-INCH SQUARE BOX WITH MUD RING ADAPTERS FOR SINGLE FACE PLATE FOR TELEVISION AUDIO/VIDEO DEVICES. MOUNT AT 155-INCHES ABOVE FINISH FLOOR. FURNISH AND INSTALL 1-INCH CONDUIT BETWEEN J-BOX AND J-BOX LOCATED AT THE TELEVISION. REFER TO KEYNOTE 1.
7. FURNISH AND INSTALL EXTRA-DUTY WEATHER PROOF WHILE-IN-USE HOODS EQUAL TO THOMAS & BETTS RED-DOT CODE KEEPER FOR ALL GFCI DUPLEX RECEPTACLES LOCATED ON THE EXTERIOR OF THE BUILDING. ALL CONDUIT SHALL BE CONCEALED WITHIN WALLS. SURFACE MOUNTED CONDUIT, OR J-BOX ARE NOT PERMITTED.
8. FURNISH AND INSTALL POWER FOR HOOD CONTROL AND LIGHTS. COORDINATE FINAL PLACEMENT WITH HOOD WIRING CHASE.

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.
2. REFER TO DETAIL SHEETS FOR PROJECTORS, PROJECTOR SCREEN, PROJECTOR MOUNTING HARDWARE, AUDIO/VIDEO EQUIPMENT, MULTIMEDIA CONTROLLERS AND OTHER SPECIAL SYSTEM EQUIPMENT.

KEY NOTES CONT.:

9. ROUTE POWER TO ELECTRIC RANGE THROUGH SHUNT TRIP BREAKER LOCATED IN THE HOOD CONTROL PANEL. MAKE FINAL CONNECTIONS TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
10. INTERFACE FIRE ALARM DEVICE WITH HOOD CONTROL PANEL.MAKE FINAL CONNECTIONS TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
11. APPROXIMATE LOCATION OF TELECOMMUNICATION EQUIPMENT COOLING CABINET "RACK-1". REFER TO DETAILS FOR RACK REQUIREMENTS.
12. FURNISH POWER FOR CABINET COOLING UNIT.
13. POWER FOR HAND DRYERS. FURNISH AND INSTALL SO THAT J-BOX ALIGNS WITH HAND DRYER BOTTOM MOUNTING SCREW.
14. FURNISH AND INSTALL RECEPTACLE TYPE NEMA 14-50R FOR RANGE. FURNISH AND INSTALL BRANCH CIRCUIT CONSISTING OF 3#6, 1#10G, 3/4-INCH CONDUIT. CONTRACTOR MUST VERIFY WITH THE TYPE OF RANGE USED PRIOR TO INSTALLING RECEPTACLE, CIRCUIT AND BREAKER.
15. APPROXIMATE LOCATION OF GENERATOR ANNUCIATING PANEL. MOUNT ADJACENT TO FIRE ALARM ANNUCIATING PANEL.
16. FURNISH AND INSTALL POWER FOR UPS. COORDINATE WITH OWNER RECEPTACLE REQUIRED. FURNISH BRANCH CIRCUIT CONSISTING OF 3#10, 1#12G, 1/2 INCH GROUND.
17. FURNISH AND INSTALL 200A/NF/3P, NEMA 4, SAFETY DISCONNECT SWITCH FOR POWER TO DRYER.
18. APPROXIMATE LOCATION OF ELECTRICAL CONNECTION FOR COMMERCIAL DRYER. FURNISH AND INSTALL FEEDERS CONSISTING OF 3#1, 1#6G, 1-1/4 INCH CONDUIT. ELECTRICL CONTRACTOR SHALL REFER TO EQUIPMENT INSTALLATION MANUAL, AND VERIFY VOLTAGE ROTATION REQUIREMENTS.
19. FURNISH AND INSTALL 60A/NF/3P, NEMA 4, SAFETY DISCONNECT SWITCH FOR POWER TO WASHER.
20. APPROXIMATE LOCATION OF ELECTRICAL CONNECTION FOR COMMERCIAL WAHSER. FURNISH AND INSTALL FEEDERS CONSISTING OF 3#6, 1#10G, 3/4 INCH CONDUIT. ELECTRICAL CONTRACTOR SHALL REFER TO EQUIPMENT INSTALLATION MANUAL, AND VERIFY VOLTAGE ROTATION REQUIREMENTS.
21. FURNISH AND INSTALL COMPACT EFFICIENCY HEAVY DUTY POWER CORD REEL WITH INCANDESCENT CAGE DROP LIGHT EQUAL TO COXREELS PC10-3016 E OR EQUAL. SUPPORT TO BUILDING JOIST. MOUNT DUPLEX RECEPTACLE ADJACENT TO REEL.+
22. APPROXIMATE LOCATION OF BIG ASS FAN. FURNISH AND INSTALL INTERFACE RELAY TO FIRE ALARM CONTROL PANEL. FURNISH AND INSTALL THREE PHASE NEMA RECEPTACLE PER MANUFACTURER RECOMMENDATIONS. MOUNT RECEPTACLE ADJACENT TO FAN CEILING MOUNTED CONTROLLER.
23. FURNISH AND INSTALL 60A/NF/3P NEMA 4, SAFETY DISCONNECT SWITCH FOR POWER TO AIR COMPRESSOR.
24. APPROXIMATE LOCATION OF ELECTRICAL CONNECTION FOR AIR COMPRESSOR. FURNISH AND INSTALL 3#6, 1#10G,1-INCH CONDUIT.

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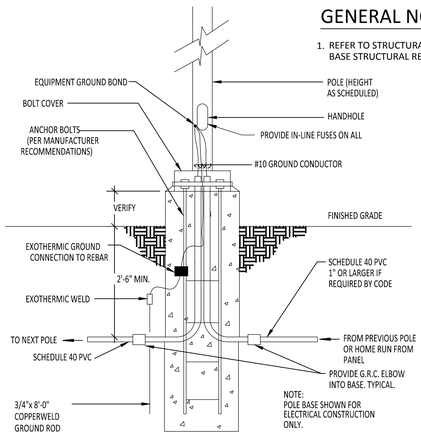
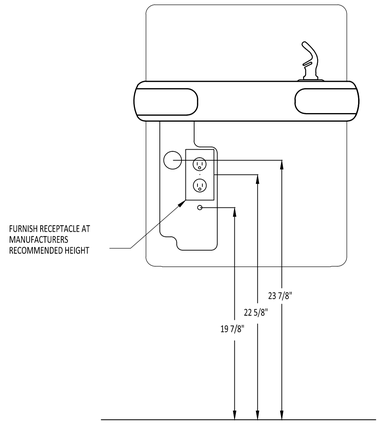
GENERAL NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR POLE BASE STRUCTURAL REQUIREMENTS.



1 TYPICAL LIGHT POLE ELECTRICAL DETAIL

SCALE: N.T.S.

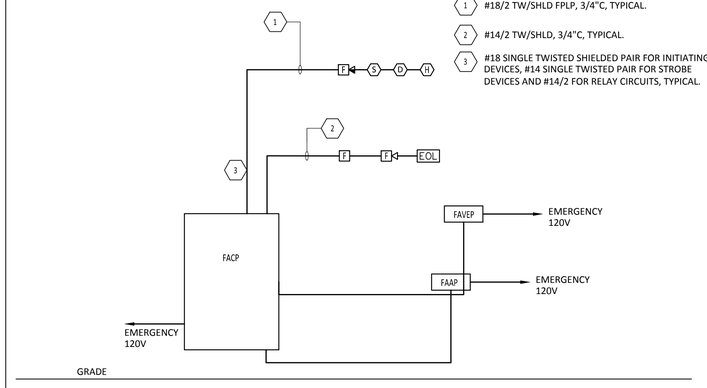


2 WATER COOLER RECEPTACLE DETAIL

SCALE: N.T.S.

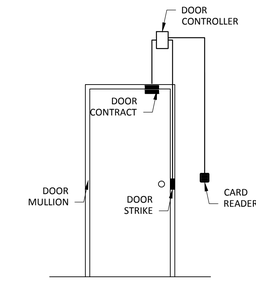
KEYED NOTES:

1. #18/2 TW/SHLD FPLP, 3/4"C, TYPICAL.
2. #14/2 TW/SHLD, 3/4"C, TYPICAL.
3. #18 SINGLE TWISTED SHIELDED PAIR FOR INITIATING DEVICES, #14 SINGLE TWISTED PAIR FOR STROBE DEVICES AND #14/2 FOR RELAY CIRCUITS, TYPICAL.



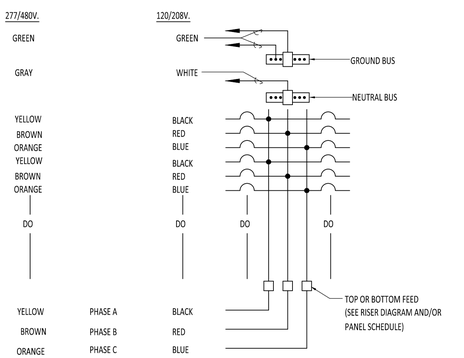
3 FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.



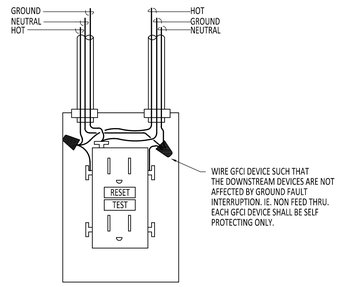
4 SINGLE DOOR ACCESS CONTROL DETAIL

SCALE: N.T.S.



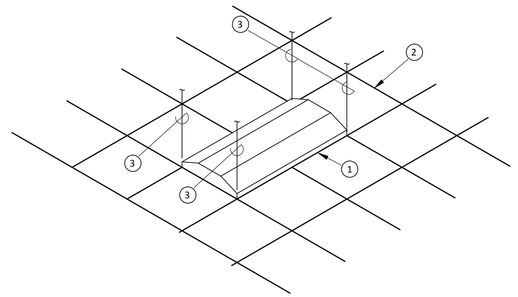
5 TYPICAL PANEL COLOR CODE DETAIL

SCALE: N.T.S.



6 GFCI RECEPTACLE - WIRING DIAGRAM

SCALE: N.T.S.

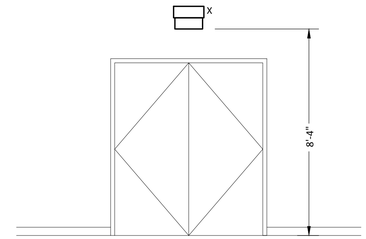


NOTES BY SYMBOL " "

1. 2'x 4' LAY-IN FLUORESCENT FIXTURE
2. SUSPENDED CEILING
3. TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.

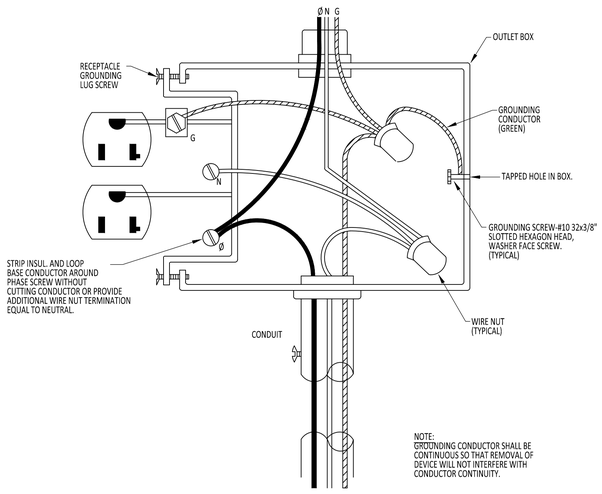
7 TYPICAL LAY-IN FIXTURE SUPPORT

SCALE: N.T.S.



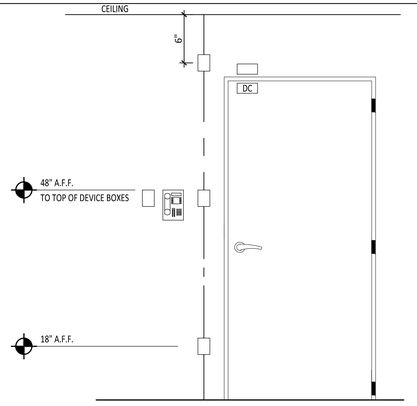
8 EXIT LIGHT INSTALLATION

SCALE: N.T.S.



9 TYPICAL RECEPTACLE GROUNDING DETAIL

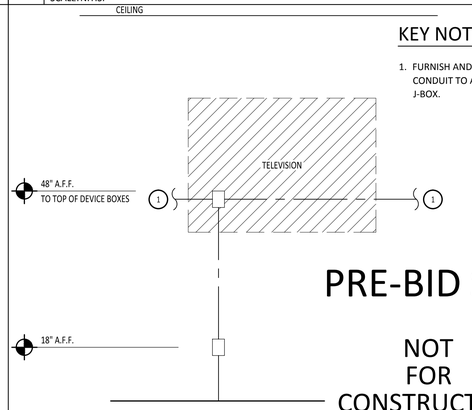
SCALE: N.T.S.



NOTES:
- VIEW IS OF INTERIOR LOOKING OUT. IMAGE MAY BE MIRRORED.
- WHEN POSSIBLE KEEP WALL DEVICES ALIGNED NEXT TO DOOR.

10 GENERAL DEVICE DETAIL

SCALE: N.T.S.



11 TELEVISION DEVICE DETAIL

SCALE: N.T.S.

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ELECTRICAL GENERAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	POWER	
	SINGLE RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R	15" AFF
	DUPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; C = CEILING MOUNTED.	15" AFF
	DUPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	15" AFF
	QUADPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; CLG = CEILING MOUNTED.	AS REQD.
	QUADPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	AS REQD.
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	
	SPECIAL PURPOSE RECEPTACLE; MOTOR OR EQUIPMENT CONNECTION	
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	15" AFF
	MULTIOUTLET ASSEMBLY - LENGTH AND OUTLET SPACING AS INDICATED	-
30/-/3	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.
30/30/3	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.
CB 2	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.
	PANELBOARD	-
	MOTOR	-
~	SINGLE LINE CONTINUATION	-
GAAP	GENERATOR ANNUNCIATOR PANEL	-
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-
	TRANSFORMER	-

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	FIRE ALARM	
DH	DOOR HOLDER OR DOOR RELEASE	-
F	FIRE ALARM PULL STATION	48" AFF
F	FIRE ALARM AUDIBLE/VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
F	FIRE ALARM AUDIBLE SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
F	FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
FS	FIRE ALARM SPRINKLER FLOW SWITCH	-
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	-
S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
H	HEAT DETECTOR CEILING OR WALL MOUNTED	-
D	DUCT SMOKE DETECTOR	-
FACP	FIRE ALARM CONTROL PANEL	-
FAAP	FIRE ALARM ANNUNCIATOR PANEL	-
VAFP	VOICE ACTIVATED FIRE ALARM PANEL	80" AFF

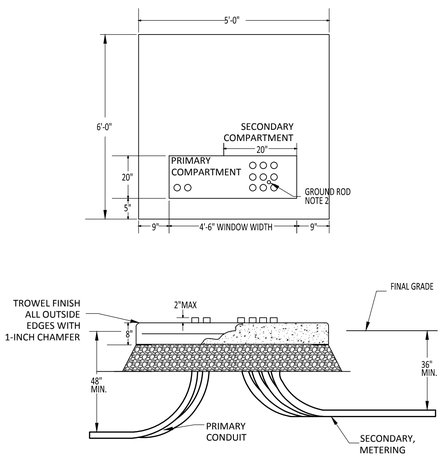
GENERAL ABBREVIATIONS

ABS ABOVE BACK SPLASH
AFF ABOVE FINISHED FLOOR
BFC BELOW FINISHED CEILING
C CONDUIT
CB CIRCUIT BREAKER
CLG CEILING
EC EMPTY CONDUIT
EP ELECTRICAL PRIMARY
EX EXISTING
F FUSE
G GROUND (EQUIPMENT)
GFI GROUND FAULT INTERRUPTER
HCC HORIZONTAL CROSS CONNECT
IC INTERRUPTING CAPACITY
ICC INTERMEDIATE CROSS CONNECT
IG ISOLATED GROUND
MTD MOUNT OR MOUNTED
NC (N.C.) NORMALLY CLOSED
NF NONFUSED
NIC NOT IN CONTRACT
NL NIGHT LIGHT
NO (N.O.) NORMALLY OPEN
PNL PANEL
RCPT(S) RECEPTACLE(S)
SD (S.D.) SPACE ONLY
SP SPARE
ST (S.T.) SHUNT TRIP
SW SWITCH
TYP TYPICAL
UF UNDERFLOOR
UG UNDERGROUND
UNO UNLESS NOTED OTHERWISE
WG WIRE GUARD
WP WEATHERPROOF
XFMR TRANSFORMER

SYMBOL	DESCRIPTION	MNTG.HT.UNO (SEE NOTE 1).
	SPECIAL SYSTEMS (ROUGH IN ONLY)	
AV	AUDIO, VIDEO, DATA, POWER POKE THRU DEVICE; FURNISH AND INSTALL LEGRAND WIREMOLD TYPE EVOLUTION 8AT SERIES. FURNISH WITH THE FOLLOWING: RECEPTACLES, SIX PORT DATA COMMUNICATION DEVICE, AUDIO/VIDEO DEVICE AND COVER TO MATCH FINISH FLOOR TYPE (CARPET, TILE WOOD, ETC.)	FLOOR
	TELEPHONE OR DATA OUTLET. WALL MOUNTED , FURNISH AND INSTALL 4"-SQUARE J-BOX WITH MUDRINGS. ROUTE 1-INCH CONDUIT WITH PULL STRING FROM J-BOX TO A LOCATION ACCESSIBLE ABOVE CEILING, U.N.O. FURNISH J-BOX WITH MUD RING ADAPTER. FURNISH CONDUIT WITH CONDUIT BUSHINGS.	15" AFF
AV	AUDIO AND VIDEO WALL DEVICE. WALL MOUNTED, FURNISH AND INSTALL 4"-SQUARE J-BOX WITH MUDRINGS ADAPTERS. ROUTE 1-1/2 INCH CONDUIT WITH PULL STRING FROM J-BOX TO A LOCATION ACCESSIBLE ABOVE CEILING, U.N.O. FURNISH WITH CONDUIT BUSHINGS.	15" AFF
MM	MULTIMEDIA CONTROLLER. FURNISH AND INSTALL 4"-SQUARE J-BOX WITH MUDRINGS ADAPTERS. ROUTE 1-1/2 INCH CONDUIT WITH PULL STRING FROM J-BOX TO A LOCATION ACCESSIBLE ABOVE CEILING, U.N.O. FURNISH WITH CONDUIT BUSHINGS.	48" AFF
CR	SECURITY SYSTEM CARD READER. FURNISH AND INSTALL SINGLE GANG J-BOX. ROUTE 3/4" CONDUIT WITH PULL STRING FROM J-BOX TO A LOCATION ACCESSIBLE ABOVE CEILING, U.N.O. FURNISH WITH CONDUIT BUSHINGS.	48" AFF
T	ELECTRIFIED HINGES OR POWER TRANSFER DEVICE. FURNISH WITH CABLE TO GO BETWEEN ANY HARDWARE AND HINGE.	AS REQUIRED
T	EXIT DEVICE (ELECTRIC STRIKE, ELECTROMAGNETIC). FURNISH AND INSTALL J-BOX ABOVE CEILING, DIRECTLY ABOVE DOOR.	AS REQUIRED
	SURVEILLANCE CAMERA. COORDINATE MOUNTING HEIGHT WITH OWNER. FURNISH AND INSTALL 4"-SQUARE BOX WITH 1-INCH CONDUIT WITH PULL STRING FROM J-BOX TO A LOCATION ACCESSIBLE ABOVE BUILDING INTERIOR CEILING, U.N.O.	AS REQUIRED
CR KP	ACCESS CONTROL KEYPAD OR CARD READER. FURNISH AND INSTALL SINGLE GANG J-BOX WITH 1/2 INCH CONDUIT WITH PULLS TRING. ROUTE CONDUIT TO A LOCATION ACCESSIBLE ABOVE CEILING. FURNISH WITH CONDUIT BUSHINGS.	48" AFF
MD	MOTION DETECTION SENSOR. FURNISH AND INSTALL MOTION DETECTION DEVICE AND CABLING. ROUTE CABLING TO INTRUSION DETECTION PANEL.	AS REQUIRED
D	DOOR CONTACTS "STATUS SWITCH". FURNISH AND INSTALL MOTION DOOR STATUS DEVICE AND CABLING. ROUTE CABLING TO INTRUSION DETECTION PANEL.	AS REQUIRED
G	ACOUSTIC GLASS BREAK DETECTORS. FURNISH AND INSTALL MOTION DOOR STATUS DEVICE AND CABLING. ROUTE CABLING TO INTRUSION DETECTION PANEL.	AS REQUIRED
IDS	INTRUSION DETECTION SYSTEM PANEL. (DMP-XR500N)	AS REQUIRED

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE; 15" AFF INDICATES TO BOTTOM OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

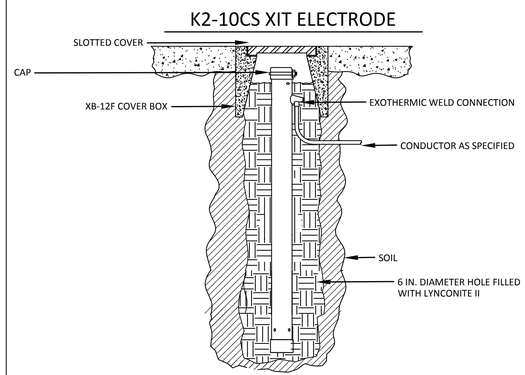
1 ELECTRICAL GENERAL LEGEND
SCALE: N.T.S



GENERAL NOTES:

A. PAD ASSEMBLIES INCLUDE SITE PREPARATION, BEDDING AND DRAINAGE.
B. SLABS MAY BE PRECAST OR POURED IN PLACE.
C. CONCRETE TESTING 4000 POUNDS PER SQUARE INCH.
D. STEEL REINFORCING SHOULD BE NO. 4 REAR, AATSM-A615 GRADE 60. PLACE APPROXIMATELY 6" OPPOSITE CORNER EACH WAY AND SECURELY TIED TOGETHER.
E. MINIMUM CONCRETE COVER OVER REINFORCING STEEL 5 INCHES.
F. WOOD FLOAT FINISH, LEAVING NO DEPRESSION.
G. CONTACT MVEC REPRESENTATIVE TO INSPECT BEFORE POURING CONCRETE.
H. A CLEAR AREA SHOULD BE MAINTAINED FOR 10 FEET IN FRONT OF PADMOUNT.
I. TOP OF PAD SHOULD BE MINIMUM OF 3" ABOVE GRADE AND BOTTOM OF PAD A MINIMUM OF 5" BELOW GRADE.
J. CONDUITS SHOULD BE IN FRONT BUT NOT UNDER WEIGHT OF TRANSFORMER.

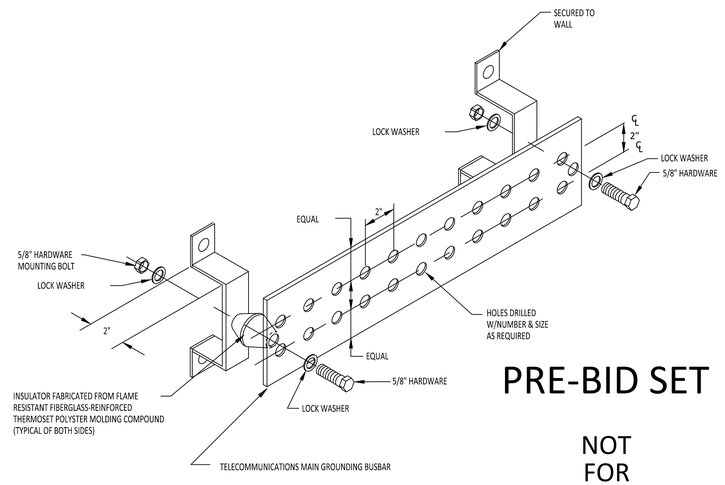
2 TRANSFORMER PAD DETAIL
SCALE: N.T.S



GENERAL NOTES:

STRAIGHT SHAFT MODEL: INFORMATION & SPECIFICATIONS
A. MANUFACTURER: LYNCOLE XIT GROUNDING, 3547 VOYAGER ST., TORRANCE, CA 90503, PHONE 800-962-2610. WWW.LYNCOLE.COM
B. SHAFT CONFIGURATION: STRAIGHT. STANDARD LENGTHS: 10', 12', & 20', OR CUSTOM.
C. UL AND CSA LISTING: 467.
D. LYNCONITE II BACKFILL MEETS ANSI/NSF ENVIROMENTAL STANDARD 60.
E. MATERIAL: TYPE K COPPER 0.083" NOMINAL WALL THICKNESS.
F. CONSTRUCTION: HOLLOW TUBE, 2.125" O.D., FILLED WITH NON- HAZARDOUS SALTS (CALSOLYTE).
G. WEIGHT: 3.5 LBS PER LINEAL FOOT.
H. GROUND WIRE TERMINATION: EXOTHERMIC CONNECTION TO CONDUCTORS FROM #2 SOLID AWG TO 750 MCM. U-BOLT WITH PRESSURE PLATE PROVIDED AS TEST POINT.
I. MINIMUM LIFE EXPECTANCY: 50 YEARS. WARRANTY: 30 YEARS.
J. STRAIGHT SHAFT MODEL NO: K2-10CS, K2-12CS, K2-20CS.
K. GSA CONTRACT PRICING AVAILABLE.

3 LYNCOLE XIT GROUNDING SYSTEM
SCALE: N.T.S



PRE-BID SET

NOT FOR CONSTRUCTION

SIGMAHN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

4 WALL MOUNTED SINGLE-PORT GROUND BAR DETAIL
SCALE: N.T.S.

PROJECT #: 13023
DATE:
DRAWN BY: J.V.
CHECKED BY: J.A.N.

REVISION:
1:
2:
3:
4:

LINN – SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT : LINN–SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER · 04/04/2024

Mata & Garcia ARCHITECTS LLP
architecture
project management
interior design
Fernando Mata A.I.A., Partner Hector Rene Garcia R.A., Partner
1314 West Ivy Avenue McAllen, Texas 78501 Tel : (956) 631-1945 Fax : (956) 631-1988

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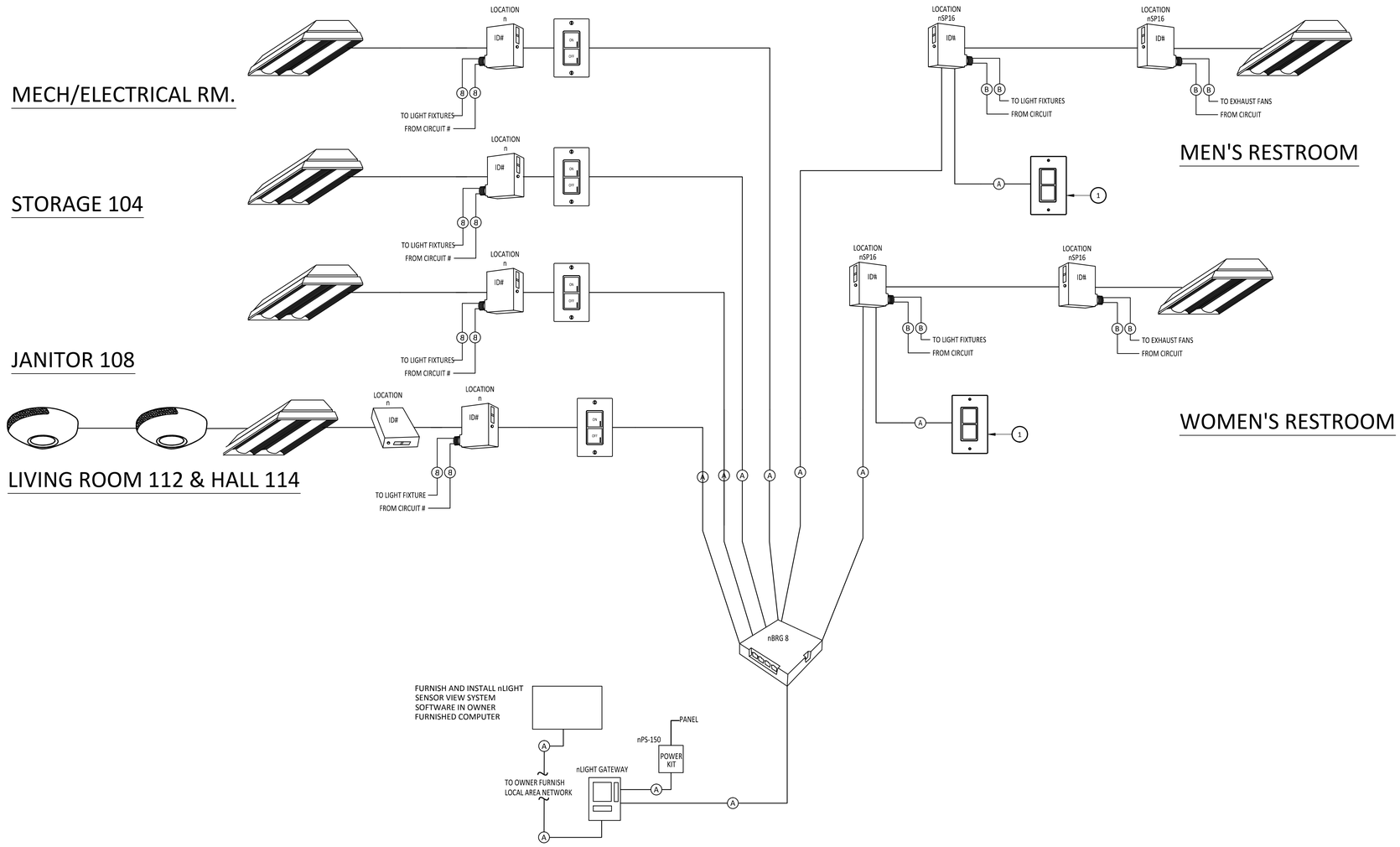

1 LIGHTING CONTROL
SCALE: N.T.S

CABLE KEY NOTES:

CAT 5e CABLING	A
POWER (CLASS I)	B
POWER (CLASS II)	C

GENERAL NOTES:

A. ALL SENSORS, POWER PACKS, DIGITAL SWITCHES, BRIDGES, CABLING AND GATEWAYS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY WITH MANUFACTURER ON THE ACTUAL QUANTITY OF ELEMENTS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

B. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER EIGHT HOURS OF LIGHTING CONTROL COMMISSION AND EIGHT HOURS OF OWNER TRAINING.

C. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER AN 8 HOUR FOLLOW-UP VISIT TO MAKE SENSOR , PROGRAMMING AND CONTROL ADJUSTMENT AND PROVIDE TRAINING TO OWNER.

D. APPROVED SUBSTITUTE LIGHTING CONTROL PRODUCTS BY LEVITON.

KEY NOTES:

1. EXHAUST FAN SHALL BE CONTROLLED WITH LIGHT OCCUPANCY LIGHT SWITCH. FAN SHALL REMAIN ON FOR 2 MINUTES AFTER LIGHTS HAVE BEEN TURNED OFF.

PRE-BID SET

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TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

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PRECINCT NO. 4

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STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER · 08/31/2021

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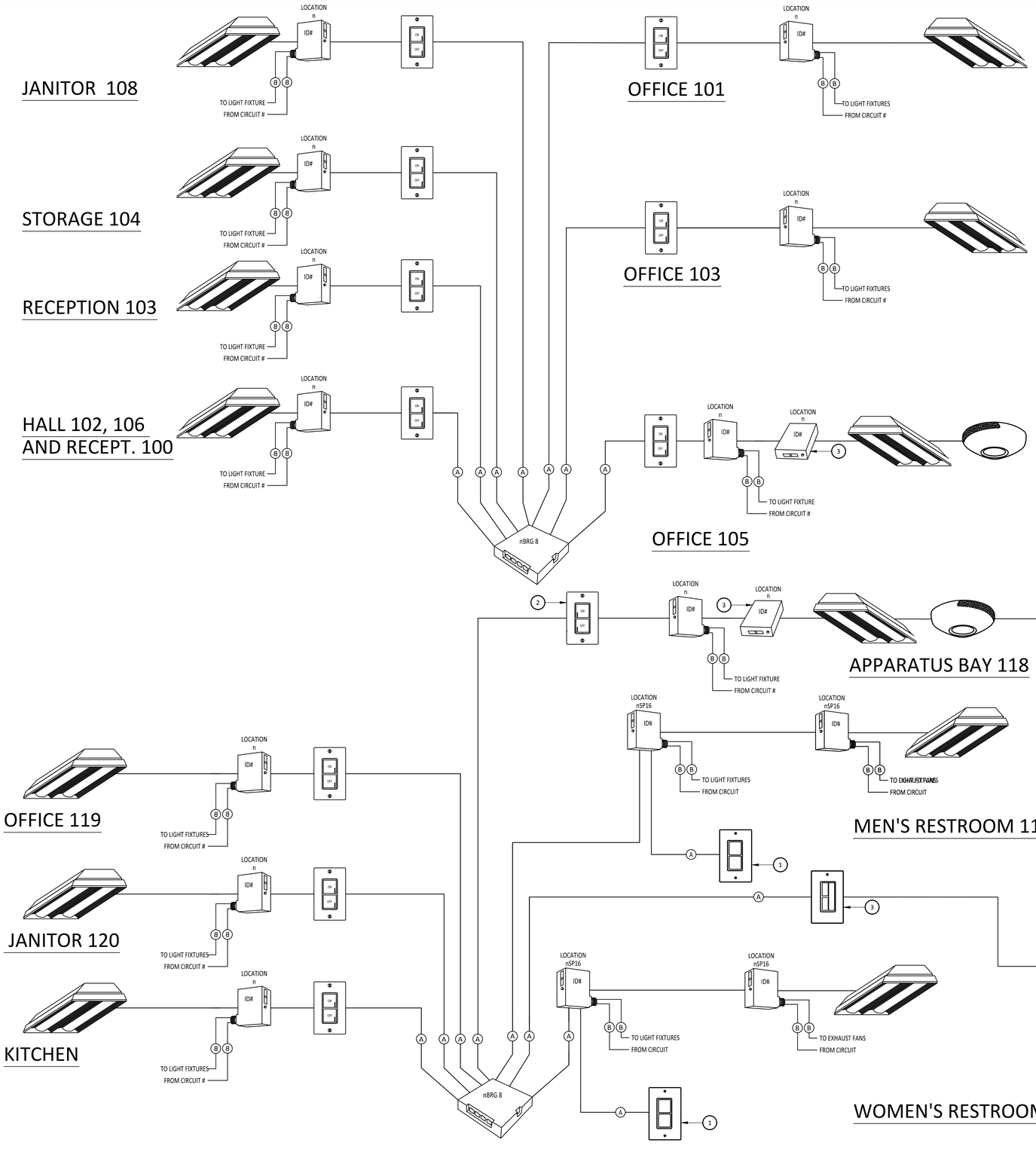

1 LIGHTING CONTROL
SCALE: N.T.S

GENERAL NOTES:

A. ALL SENSORS, POWER PACKS, DIGITAL SWITCHES, BRIDGES, CABLING AND GATEWAYS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY WITH MANUFACTURER ON THE ACTUAL QUANTITY OF ELEMENTS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

B. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER EIGHT HOURS OF LIGHTING CONTROL COMMISSION AND EIGHT HOURS OF OWNER TRAINING.

C. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER AN 8 HOUR FOLLOW-UP VISIT TO MAKE SENSOR , PROGRAMMING AND CONTROL ADJUSTMENT AND PROVIDE TRAINING TO OWNER.

D. APPROVED SUBSTITUTE LIGHTING CONTROL PRODUCTS BY LUTRON.

KEY NOTES:

1. EXHAUST FAN SHALL BE CONTROLLED WITH LIGHT OCCUPANCY LIGHT SWITCH. FAN SHALL REMAIN ON FOR 2 MINUTES AFTER LIGHTS HAVE BEEN TURNED OFF.
2. FURNISH AND INSTALL nPP16 POWER PACKS FOR EXTERIOR LIGHTING CONTROL IN ELECTRICL ROOM, ADJACENT TO ELECTRICAL PANELS.
3. FURNISH AND LIGHT SWITCH TYPE nPODM-2P FOR CONTROL OF EXTERIOR LIGHTING. CONTROL AS FOLLOWS:
   A. BUTTON (1) SHALL CONTROL PERIMETER LIGHTING.
   B. BUTTON (2): SHALL SITE LIGHTING.
4. FURNISH AND INSTALL PHOTOCELL KIT FOR EXTERIOR LIGHTING. MOUNT PHOTOCELL FACING NORTH.

CABLE KEY NOTES:

CAT 5e CABLING	A
POWER (CLASS I)	B
POWER (CLASS II)	C

PRE-BID SET

NOT FOR CONSTRUCTION

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PANELBOARD MDP

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION:EXTERIOR
800 A MAIN BREAKER (LSI) — MOUNTING: SURFACE, NEMA 3R ENCLOSURE
BUSES: MAIN - 800 A; NEUTRAL - 100%; EQUIPMENT GROUND;ISOLATED GROUND — Isc = 40,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0		AHU-1	70/3	1	A	2	100/3	PANEL 1P	L	R	O
0	0		"	-	3	B	4	-	"	0	1980	0
0	0		"	-	5	C	6	-	"	0	720	0
0	0	2400	AHU-2	25	7	A	8	100/3	PANEL 2P	0	360	720
0	0	2400	"	-	9	B	10	-	"	36	4980	960
0	0	2400	"	-	11	C	12	-	"	0	1980	960
0	0	3120	CU-1	45/3	13	A	14	300/3	PANEL 3P (ELECTRONIC TRIP, LSI)	0	0	27773
0	0	3120	"	-	15	B	16	-	"	0	0	28085
0	0	3120	"	-	17	C	18	-	"	0	0	24079
0	0	1080	CU-2	15/3	19	A	20	150/3	PANEL 4P	0	0	13804
0	0	1080	"	-	21	B	22	-	"	0	0	13679
0	0	1080	"	-	23	C	24	-	"	0	0	12639
0	0		SPARE		25	A	26	20/1	SPARE	0	0	
0	0		SPARE	-	27	B	28	20/1	SPARE	0	0	
0	0		SPARE	-	29	C	30	60/3	RANGE	0	0	5666
0	0		SPARE		31	A	32	-	"	0	0	5666
0	0		SPARE	-	33	B	34	-	"	0	0	5666
0	0	62	CP-1	20/1	35	C	36	-	ELECTRIC RANGE SHUNT TRIP	0	0	
0	0	4000	WH-1	45/3	37	A	38	100/3	SURGE PROTECTIVE DEVICE	0	0	
0	0	4000	"	-	39	B	40	-	"	0	0	
0	0	4000	"	-	41	C	42	-	"	0	0	

VA:L (LIGHTING)	36	CONNECTED	45 DEMAND
VA:R (RECEPTACLES)	10020	CONNECTED	10010 DEMAND
VA:O (OTHER)	171559	CONNECTED	171559 DEMAND
VA: TOTAL	181615	CONNECTED	181614 DEMAND
AMPS: TOTAL	504	CONNECTED	504 DEMAND

L	R	O		TOTAL			
0	360	58562	VA CONNECTED TO A PHASE	58922	VA =	491	AMPS CONNECTED TO A PHASE @ 120 VOLTS
36	6960	58990	VA CONNECTED TO B PHASE	65986	VA =	550	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	2700	54006	VA CONNECTED TO C PHASE	56706	VA =	473	AMPS CONNECTED TO C PHASE @ 120 VOLTS
36	10020	171559	**TOTAL**	181615	VA		

PANELBOARD 1P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -100 A; NEUTRAL - 200%; EQUIPMENT GROUND;ISOLATED GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	720		RECEPT. OFFICE 101, 103	20/1	1	A	2	20/1	RECEPT. OFFICE 101,102, 103, 105	0	1080	
0	360		RECEPT. OFFICE 105	20/1	3	B	4	20/1	SPARE	0	0	
0	360		RECEPT. OFFICE 100	20/1	5	C	6	20/1	SPARE	0	0	
0	180		RECEPT. ELECT. RM 111	20/1	7	A	8	20/1	SPARE	0	0	
0	360		QUAD. ELECT. RM 111	20/1	9	B	10	20/1	SPARE	0	0	
0	0	720	ELECTRIC WATER COOLER	20/1	11	C	12	20/1	SPARE	0	0	
0	0		SPARE	20/1	13	A	14	20/1	SPARE	0	0	
0	0		SPARE	30/2	15	B	16	20/1	SPARE	0	0	
0	0		SPARE	20/1	17	C	18	20/1	SPARE	0	0	
0	0		SPARE	20/1	19	A	20	20/1	SPARE	0	0	
0	0		SPARE	20/1	21	B	22	20/1	SPARE	0	0	
0	0		SPARE	20/1	23	C	24	20/1	SPARE	0	0	
0	0		SPARE	30/1	25	A	26	20/1	SPARE	0	0	
0	0		SPARE	20/1	27	B	28	20/1	SPARE	0	0	
0	0		SPARE	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	100/3	SURGE PROTECTIVE DEVICE	0	0	
0	0		SPARE	20/1	39	B	40	-	"	0	0	
0	0		SPARE	20/1	41	C	42	-	"	0	0	

VA:L (LIGHTING)	0	CONNECTED	0 DEMAND
VA:R (RECEPTACLES)	3060	CONNECTED	3060 DEMAND
VA:O (OTHER)	720	CONNECTED	720 DEMAND
VA: TOTAL	3780	CONNECTED	3780 DEMAND
AMPS: TOTAL	10	CONNECTED	10 DEMAND

L	R	O		TOTAL			
0	1980	0	VA CONNECTED TO A PHASE	1980	VA =	17	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	720	0	VA CONNECTED TO B PHASE	720	VA =	6	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	360	720	VA CONNECTED TO C PHASE	1080	VA =	9	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	3060	720	**TOTAL**	3780	VA		

PANELBOARD 2P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -100 A; NEUTRAL - 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	1260		RECEPT. OFFICE 101,102, 103, 105,114,115	20/1	1	A	2	20/1	GFCI RECEPT. BLDG PERIMETER	0	1620	
0	900		RECEPT. MECH. 110	20/1	3	B	4	20/1	GFCI RECEPT. RR. 107, 109, 116, 117	0	720	
0	180		RECEPT. ELECT. RM. 111	20/1	5	C	6	20/1	GFCI RECEPT. 108, 120	0	360	
0	180		RECEPT. ELECT. RM. 111 TELECOM.	20/1	7	A	8	20/1	POWER REEL APPARATUS BAY	0	1920	
0	360		RECEPT. ELECT. RM. 111	20/1	9	B	10	20/1	POWER REEL APPARATUS BAY	0	1920	
0	0		FIRE ALARM PANEL	20/1	11	C	12	20/1	SPARE	0		
0	0		VENDING MACHINE	20/1	13	A	14	20/1	APPARATUS BAY 118 S. WALL	0		
0	0		VENDING MACHINE	20/1	15	B	16	20/1	APPARATUS BAY 118 N. WALL	0	720	
0	360		KITCHEN GFCI	20/1	17	C	18	20/1	APPARATUS BAY 118 W. WALL	0	720	
0	360		KITCHEN GFCI	20/1	19	A	20	20/3	BIG ASS FAN	0	0	960
0	360		KITCHEN GFCI	20/1	21	B	22	-	"	0	0	960
0	360		KITCHEN GFCI	20/1	23	C	24	-	"	0	0	960
0	180		KITCHEN REFRIGERATOR	20/1	25	A	26	100/3	SURGE PROTECTIVE DEVICE	0	0	
36	0		CANOPY LIGHTING	20/1	27	B	28	-	"	0	0	
0	0		SPARE	20/1	29	C	30	-	"	0	0	

VA:L (LIGHTING)	36	CONNECTED	45 DEMAND
VA:R (RECEPTACLES)	12480	CONNECTED	11240 DEMAND
VA:O (OTHER)	2880	CONNECTED	2880 DEMAND
VA: TOTAL	15396	CONNECTED	14165 DEMAND
AMPS: TOTAL	43	CONNECTED	39 DEMAND

L	R	O		TOTAL			
0	5520	960	VA CONNECTED TO A PHASE	6480	VA =	54	AMPS CONNECTED TO A PHASE @ 120 VOLTS
36	4980	960	VA CONNECTED TO B PHASE	5976	VA =	50	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	1980	960	VA CONNECTED TO C PHASE	2940	VA =	25	AMPS CONNECTED TO C PHASE @ 120 VOLTS
36	12480	2880	**TOTAL**	15396	VA		

PANELBOARD 3P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
300 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -300 A; NEUTRAL - 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	1725	HAND DRYER WOMEN'S RR	20/1	1	A	2	20/1	HAND DRYER MEN'S RR	0	0	1725
0	0	1725	HAND DRYER WOMEN'S RR	20/1	3	B	4	20/1	HAND DRYER MEN'S RR	0	0	1725
0	0		SPARE	20/1	5	C	6	30/3	OWNER PROVIDED UPS	0	0	2880
0	0	1176	OVERHEAD DOOR	20/1	7	A	8	-	"	0	0	2880
0	0	1176	OVERHEAD DOOR	20/1	9	B	10	-	"	0	0	2880
0	0	1176	OVERHEAD DOOR	20/1	11	C	12	20/1	CABINET COOLING UNIT	0	0	1920
0	0	5167	WASHER	60/3	13	A	14	20/1	KEF-1	0	0	864
0	0	5167	"	-	15	B	16	20/1	KEF-2	0	0	1176
0	0	5167	"	-	17	C	18	20/1	OVERHEAD DOOR	0	0	1176
0	0	10560	DRYER	110	19	A	20	20/1	OVERHEAD DOOR	0	0	1176
0	0	10560	"	-	21	B	22	20/1	OVERHEAD DOOR	0	0	1176
0	0	10560	"	-	23	C	24	20/1	SPARE	0	0	
0	0		SURGE PROTECTIVE DEVICE	100/3	25	A	26	30/2	GEN. BLOCK HEATER CKT.	0	0	2500
0	0		"	-	27	B	28	-	"	0	0	2500
0	0		"	-	29	C	30	20/1	GEN. BATTERY CHARGER CKT.	0	0	1200

VA:L (LIGHTING)	0	CONNECTED	0 DEMAND
VA:R (RECEPTACLES)	0	CONNECTED	0 DEMAND
VA:O (OTHER)	79937	CONNECTED	79937 DEMAND
VA: TOTAL	79937	CONNECTED	79937 DEMAND
AMPS: TOTAL	222	CONNECTED	222 DEMAND

L	R	O		TOTAL			
0	0	27773	VA CONNECTED TO A PHASE	27773	VA =	231	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	0	28085	VA CONNECTED TO B PHASE	28085	VA =	234	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	24079	VA CONNECTED TO C PHASE	24079	VA =	201	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	0	79937	**TOTAL**	79937	VA		

PANELBOARD 4P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
150 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -150 A; NEUTRAL - 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	2500	UH-1	30/3	1	A	2	15/3	UH-5	0	0	1100
0	0	2500	"	-	3	B	4	-	"	0	0	1100
0	0	2500	"	-	5	C	6	-	"	0	0	1100
0	0	2500	UH-2	30/3	7	A	8	20/2	FCCU-1 AND FCU-1	0	0	1165
0	0	2500	"	-	9	B	10	-	"	0	0	1165
0	0	2500	"	-	11	C	12	15/2	FCCU-2 AND FCU-2	0	0	832
0	0	2500	UH-3	30/3	13	A	14	-	"	0	0	832
0	0	2500	"	-	15	B	16	15/2	BAF-1	0	0	707
0	0	2500	"	-	17	C	18	-	"	0	0	707
0	0	2500	UH-4	30/3	19	A	20	15/2	BAF-2	0	0	707
0	0	2500	"	-	21	B	22	-	"	0	0	707
0	0	2500	"	-	23	C	24	20/1	SPARE	0	0	
0	0		SURGE PROTECTIVE DEVICE	100/3	25	A	26	20/1	SPARE	0	0	
0	0		"	-	27	B	28	20/1	SPARE	0	0	
0	0		"	-	29	C	30	20/1	SPARE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0 DEMAND
VA:R (RECEPTACLES)	0	CONNECTED	0 DEMAND
VA:O (OTHER)	40122	CONNECTED	40122 DEMAND
VA: TOTAL	40122	CONNECTED	40122 DEMAND
AMPS: TOTAL	111	CONNECTED	111 DEMAND

L	R	O		TOTAL			
0	0	13804	VA CONNECTED TO A PHASE	13804	VA =	115	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	0	13679	VA CONNECTED TO B PHASE	13679	VA =	114	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	12639	VA CONNECTED TO C PHASE	12639	VA =	105	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	0	40122	**TOTAL**	40122	VA		

TELECOMMUNICATION RACK VOICE/DATA SCHEDULE

QTY	MANU.	MODEL NUMBER
1	APC	RACK SYSTEM TYPE# APC NETSHELTER SX AR3100
1	APC	RACK AIR REMOVAL UNIT ACF400
2	APC	BASIC RACK PDU'S
3	APC	BLANKING PANEL KIT AR8101 BLK.
2	APC	VERTICAL CABLE ORGANIZER AR8442.
5	APC	2U PATCH CORD ORGANIZER BLACK AR8427

RACK -1 (MODEL # APC NETSHELTER SX AR3100)

UNIT SPACE NO.	DEVICES	UNIT SPACE NO.
42	8U BLANKING PANEL	42
41	"	41
40	"	40
39	"	39
38	"	38
37	"	37
36	"	36
35	"	35
32	1U BLANKING PANEL	32
31	HORIZONTAL WIRE MANAGEMENT (2U)	31
30	"	30
29	RACK LCD MONITOR (1U)	29
28	KEYBOARD MOUSE DRAWER (1U)	28
27	BLANKING PANEL	27
26	HORIZONTAL WIRE MANAGEMENT (2U)	26
25	"	25
24	SURVEILLANCE SERVER DVR (2U)	24
23	"	23
22	HORIZONTAL WIRE MANAGEMENT (2U)	22
21	"	21
20	ACCESS CONTROL SERVER (2U)	20
19	"	19
18	HORIZONTAL WIRE MANAGEMENT (2U)	18
17	"	17
16	5U BLANKING PANEL	16
15	"	15
14	"	14
13	"	13
12	"	12
11	"	11
10	8U BLANKING PANEL	10
9	"	9
8	"	8
7	"	7
6	"	6
5	"	5
4	"	4
3	"	3
2	1U BLANKING PANEL	2
1	1U BLANKING PANEL	1

TELECOMMUNICATION EQUIPMENT IDENTIFICATION			
ROW	RACK/ CABINET	UNIT SPACE NO. (1-42)	PORT NO. (1-48)
1	1	1	48

EXAMPLE: R-1-1-48

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McAllen, Texas 78501

1 ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S.

2 TELECOMMUNICATION EQUIPMENT SCHEDULES
SCALE: N.T.S.

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EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

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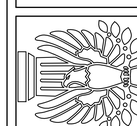

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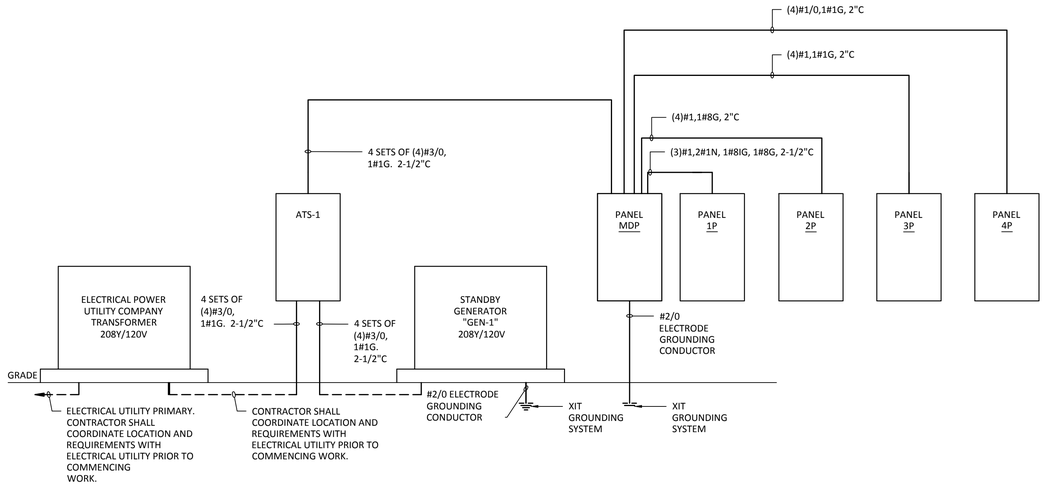
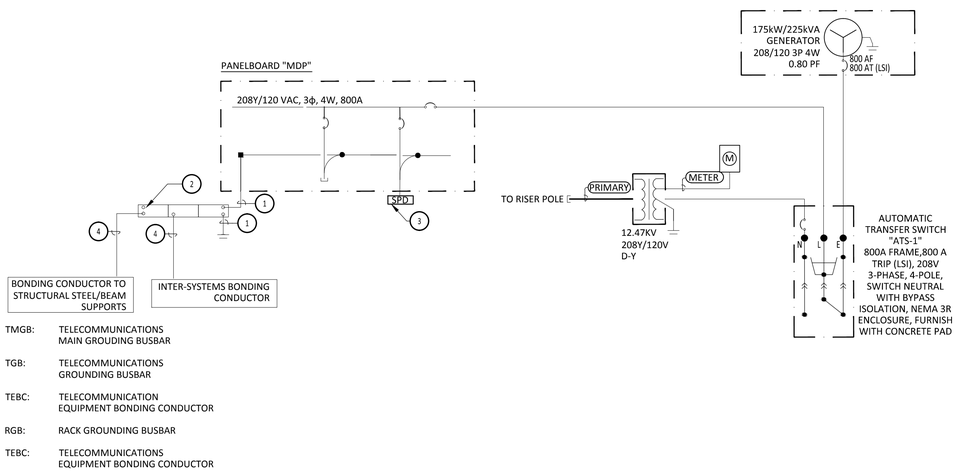


1 ELECTRICAL RISER

SCALE: N.T.S



TMGB: TELECOMMUNICATIONS MAIN GROUDING BUSBAR

TGB: TELECOMMUNICATIONS GROUNDING BUSBAR

TEBC: TELECOMMUNICATION EQUIPMENT BONDING CONDUCTOR

RGB: RACK GROUNDING BUSBAR

TEBC: TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

2 ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

KEY NOTES:

1. FURNISH AND INSTALL NEW ELECTRODE CONDUCTOR (SIZE #2). ROUTE FROM PANEL "MDP" GROUNDING TERMINAL TO TMGB AND FROM TMGB TO NEW ELECTRODE.TEST TO EQUAL TO OR LESS THAN .1 OHMS. FURNISH AND INSTALL LYNCOLE K2-10CS XIT ELECTRODE. REFER TO LYNCOLE XIT GROUNDING SYSTEM DETAIL FOR XIT ELECTRODE REQUIREMENTS.
2. FURNISH AND INSTALL NEW NEMA RATED TMGB 1/4"X 4 X" 12" WITH WITH STAND OFF INSULATORS BELOW PANEL MDP, INSIDE A NEMA 3R ENCLOSURE. CONNECT ALL BONDING CONDUCTORS TO THIS BAR. APPROVED BONDING METHOD (EXOTHERMIC WELD).
3. FURNISH AND INSTALL NEW SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY # SL3-125KA-208-3Y-SDB-M4E-F2-HPI.
4. FURNISH AND INSTALL INTER-SYSTEMS BONDING CONDUCTOR FOR TELEPHONE, DATA, MULTIMEDIA EQUIPMENT (SIZE # 6 AWG).

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PROJECT : LINN–SAN MANUEL, TEXAS
OWNER : HIDALGO COUNTY

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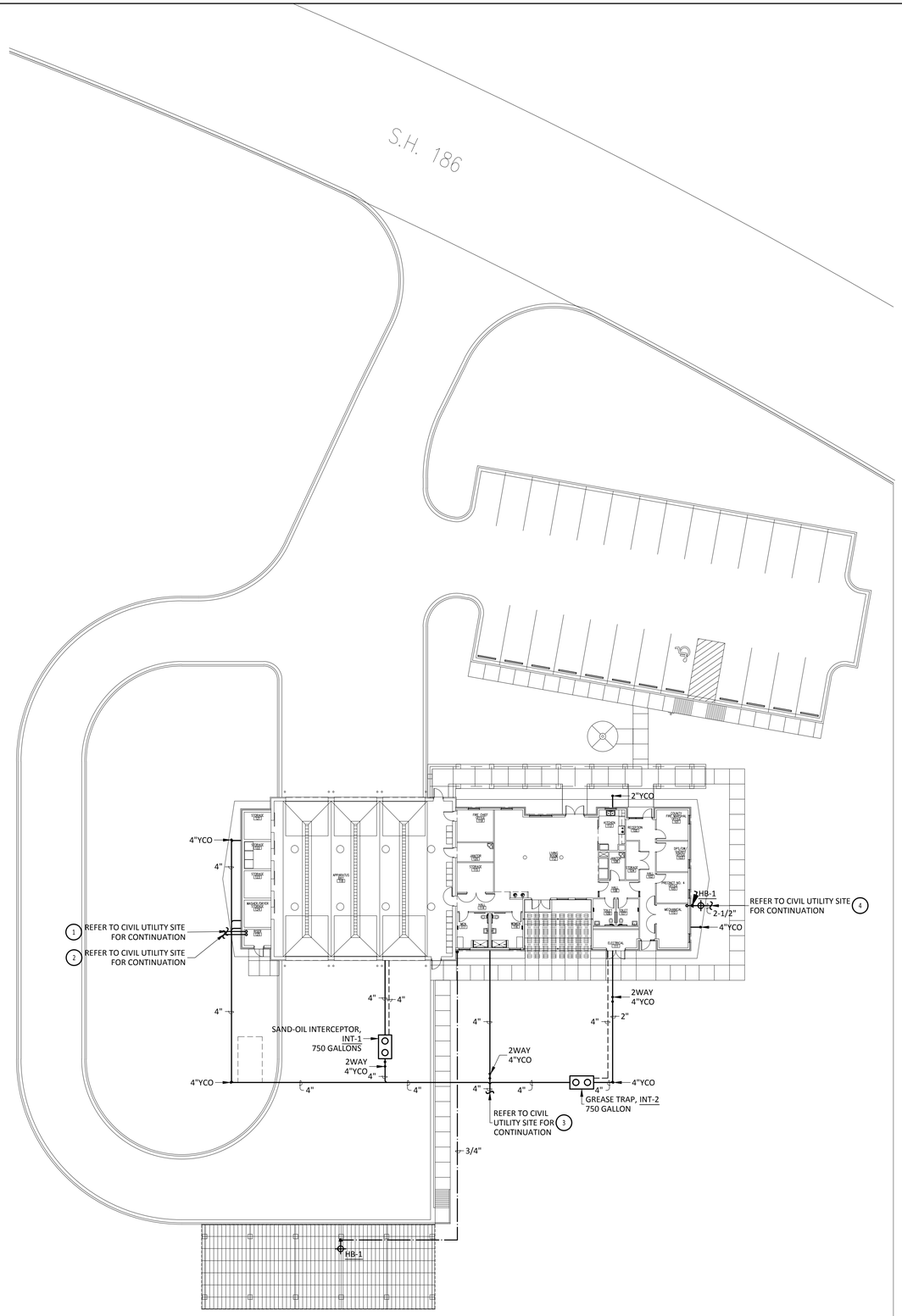

1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

N

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL PLUMBING NOTES.

KEY NOTES:

1. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.

2. PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

3. 4" SANITARY SEWER LINE. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION.

4. 2-1/2" DOMESTIC WATER SERVICE LINE. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION.

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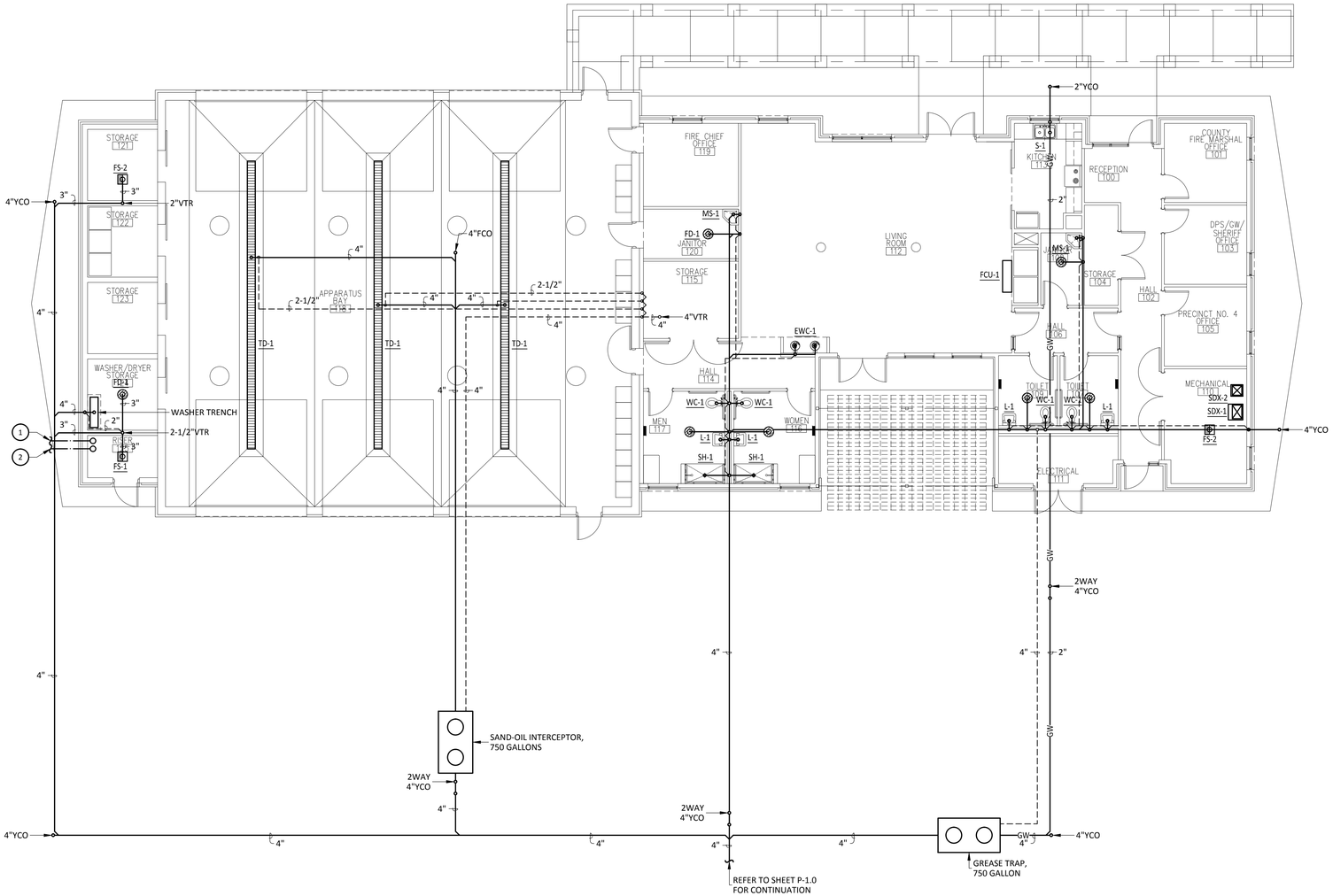

1 PLUMBING SEWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR PLUMBIGN GENERAL NOTES.

KEY NOTES:

1. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.

2. PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

3. FLOOR DRAIN SHALL BE PRIMED BELOW SLAB WITH 1/2" LINE FROM NEAREST WATER CLOSET FLUSH VALVE. CONCEAL LINE IN WALL AND BELOW CONCRETE SLAB.

4. RISE 1/2" TRAP PRIMER LINES IN WALL AND CONNECT TO TRAP PRIMER VALVE ABOVE CEILING. CONCEAL LINES IN WALLS AND BELOW CONCRETE SLAB. REFER TO PLUMBING DETAIL SHEET FOR TRAP PRIMER VALVE REQUIREMENTS.

3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER PLACEMENT AND ORIENTATION OF NEW GREASE TRAP PRIOR TO EXCAVATING. VERIFY SANITARY DEPTH, RISE AND INVERT PRIOR TO CONNECTING TO EXISTING SYSTEM.

4. ROUTE FULL SIZE CONDENSATE DRAIN LINE NEAREST FLOOR SINK.

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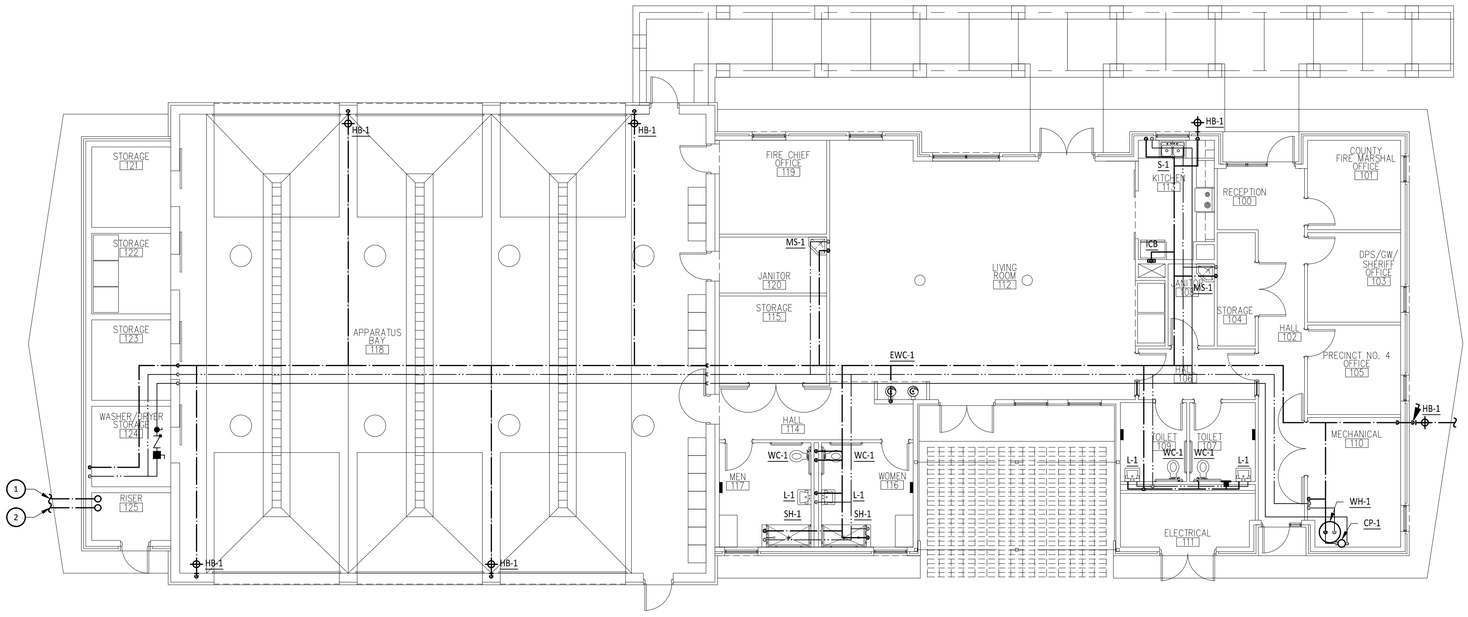

1 PLUMBING WATER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR PLUMBIGN GENERAL NOTES.

KEY NOTES:

1. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.

2. PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

3. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE (MV-1) AT LAVATORY TO DELIVER WATER AT 110°F. REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS. REFER TO PLUMBING DETAIL FOR INSTALLATION REQUIREMENTS.

4. TRAP PRIMER VALVE. DROP 1/2" SOFT DRAWN COPPER PIPING AND ROUTE TO FLOOR DRAINS SHOWN ON P-1.1. ALL PIPING SHALL BE CONCEALED IN WALLS AND BELOW CONCRETE SLAB.

5. WATER HAMMER ARRESTOR IN CHASE. PROVIDE 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH GRAB BARS, FLUSH VALVE AND/OR OTHER EQUIPMENT AND DEVICES.

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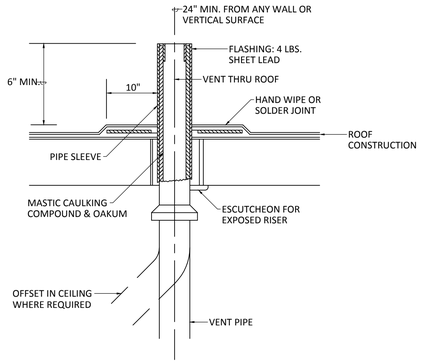
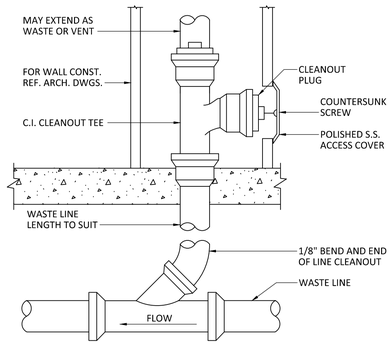


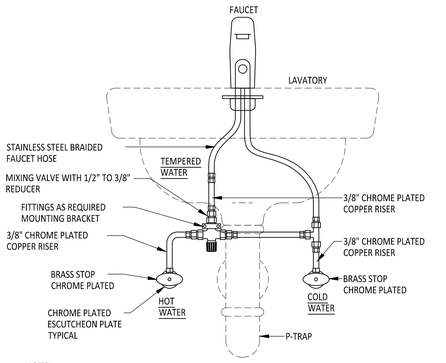
1 VENT THROUGH ROOF DETAIL
SCALE: N.T.S.



2 WALL CLEAN OUT DETAIL
SCALE: N.T.S.

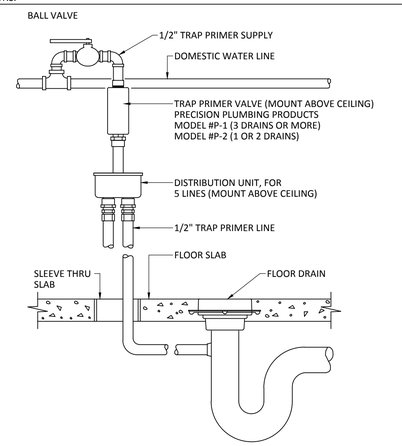
3 WALL CLEAN OUT DETAIL
SCALE: N.T.S.

4 WALL CLEAN OUT DETAIL
SCALE: N.T.S.



NOTE:
1. MIXING VALVE AND WATER LINES SHALL BE INSTALLED BETWEEN WALL AND P-TRAP TAILPIECE
2. PROVIDE AND INSTALL COVER KIT FOR P-TRAP AND STOPS.
3. FIELD INSULATE MIXING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION. JACKET INSULATION TO MATCH TRAP COVER KIT.
4. PROVIDE AND INSTALL REQUIRED 1/2" TO 3/8" REDUCERS AND CONNECTION FITTINGS.

5 MIXING VALVE UNDER LAVATORY DETAIL
SCALE: N.T.S.



6 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

7 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

8 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

9 MIXING VALVE UNDER LAVATORY DETAIL
SCALE: N.T.S.

10 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

11 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

12 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

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SHEET: P-2.0

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PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—•—	DOMESTIC COLD WATER LINE		BALL VALVE	CW	COLD WATER
—••—	DOMESTIC HOT WATER LINE		BALANCING VALVE	DN	DOWN
— —	SANITARY SEWER VENT LINE		CHECK VALVE	F.F.E.	FINISH FLOOR ELEVATION
	SANITARY WASTE LINE		GATE VALVE	FU	FIXTURE UNITS
—CD—	CONDENSATE LINE	FCO	FLOOR CLEANOUT	GW	GREASE WASTE
—GW—	GREASE WASTE LINE	YCO	YARD CLEANOUT	I.E.	INVERT ELEVATION
—RD—	ROOF DRAIN LINE		FLOOR SINK	HW	HOT WATER
—OD—	OVERFLOW DRAIN LINE		FLOOR DRAIN	SS	SANITARY SEWER
	PIPE RISER		ROOF DRAIN	TP	TRAP PRIMER
	PIPE DROP		POINT OF CONNECTION	TYP	TYPICAL
	THERMOMETER		WALL HYDRANT	UND. LAV.	UNDER LAVATORY
	DIRECTION OF FLOW		HOSE BIBB	V	VENT
HWCO	WALL CLEANOUT	WHA	WATER HAMMER ARRESTOR	VTR	VENT THRU ROOF
P / 1	PLUMBING RISER DESIGNATION	ABV. CLG.	ABOVE CEILING	CO	CLEAN OUT
02 / P-3.1	PLUMBING DETAIL REFERENCE	B.F.F.	BELOW FINISH FLOOR		

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

PLUMBING SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		SS	V	CW	HW	
WC-1	WATER CLOSET FLOOR MOUNTED (HANDICAP)	4"	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD. KOHLER "HIGHCREST" 17" MODEL #K-4302. 16-3/4" RIM HEIGHT, 1.6 GPF, 10" ROUGH-IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL #111, KOHLER "LUSTRA" MODEL #K-4670-C OPEN FRONT SEAT LESS COVER. TRAP PRIMER CONNECTION FROM FLUSH VALVE TO FLOOR DRAIN WHERE SHOWN ON PLANS.
L-1	LAVATORY WALL MOUNTED (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, WALL-HUNG LAVATORY WITH HOLES ON 4" CENTERS EQUAL TO KOHLER "CHESAPEAKE" MODEL #K-1728-0. COMPLETE WITH LAVATORY FAUCET CHICAGO MODEL #802A-317. CHROME PLATED, 1/2" IPS CONNECTIONS, VANDAL RESISTANT, WRIST BLADE HANDLES, HOT AND COLD INDICATORS, 2.0 GPM. ADA APPROVED, PROTECTIVE COVER ON P-TRAP AND APPROVED CARRIER SYSTEM.
S-1	SINK (HANDICAP)	2"	2"	1/2"	1/2"	DOUBLE COMPARTMENT, STAINLESS STEEL SINK EQUAL TO ELKAY MODEL #LRAD-3321-60-4. SELF RIMMING, 32"X21"X6", 4 HOLE ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH ELKAY MODEL #LK2433 HI-ARC, CHROMED METAL WING HANDLES, CONCEALED MOUNT FAUCET WITH VEGETABLE SPRAY AND "LK-35" STRAINER WITH BASKET.
SH-1	SHOWER (HANDICAP)	2"	2"	1/2"	1/2"	BARRIER FREE THERMOSTATIC MIXING VALVE HAND HELD SHOWER CONSISTING OF SHOWER HEAD WITH 60" STAINLESS STEEL HOSE, WALL INLET, MOUNTING BAR, SINGLE COMPRESSION VALVE, WALL MOUNTED SOAP DISH AND REQUIRED HARDWARE. EQUAL TO BRADLEY #1C/TMV/S1/AKV/B24/DV/ST/SD.
MS-1	MOP SINK	3"	2"	3/4"	3/4"	FLOOR-MOUNTED TERRAZZO CORNER SERVICE SINK EQUAL TO STERN-WILLIAMS MODEL "SBC-1700-BP", 24"X24"X12" WITH 6" DROP FRONT, STAINLESS STEEL BACK PANELS AND STAINLESS STEEL RIM GUARDS ON ALL SIDES. COMPLETE WITH SERVICE SINK FAUCET EQUAL TO CHICAGO MODEL "540-LD-8975-SWXF" WITH 8" CENTERS, PAIL HOOK, WALL BRACKET, VACUUM BREAKER SPOUT, AND LEVER HANDLES. MOP HANGER AND 5' REINFORCED RUBBER HOSE.
EWC-1	ELECTRIC WATER COOLER (HANDICAP)	2"	2"	1/2"	-	BI-LEVEL SELF-CONTAINED WALL HUNG, REFRIGERATED WATER COOLER EQUAL TO ELKAY #EZSTL-8. SELF CLOSING CONTROLS ON FRONT AND SIDE, STAINLESS STEEL BASIN. FLEX-GUARD BUBBLER CAPABLE OF DELIVERING 8.0 GPH OF 50° F WATER WITH 80° F INLET WATER AND 90° F ROOM TEMPERATURE. INSTALL WITH AN APPROVED CARRIER SYSTEM.
FD-1	FLOOR DRAIN	3"	2"	1/2"	-	ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.
FD-2	SHOWER FLOOR DRAIN	2"	2"	1/2"	-	ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	3"	2"	1/2"	-	ZURN MODEL #Z-1910-P-2 PROCELAIN-ENAMELED CAST IRON FLOOR SINK . 12"X12"X6" WITH ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, PORCELAIN-ENAMELED CAST IRON 1/2 GRATE, AND 1/2" TRAP PRIMER CONNECTION.
FS-2	FLOOR SINK	3"	2"	1/2"	-	ZURN MODEL #Z-1910-P-4 PROCELAIN-ENAMELED CAST IRON FLOOR SINK . 12"X12"X6" WITH ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, PORCELAIN-ENAMELED CAST IRON FULL GRATE, AND 1/2" TRAP PRIMER CONNECTION.
TD-1	TRENCH DRAIN	4"	2"	-	-	TRENCH DRAIN SYSTEM ZURN #Z886-U4-DGC-DB, BOTTOM OUTLET ADAPTERS, DUCTILE IRON SLOTTED GRATE LOAD CLASS C, AND BOTTOM DOME STRAINER.
INT-1	SAND-OIL INTERCEPTOR	4"	4"	-	-	750 GALLON SAND/OIL SEPARATOR SHALL BE EQUAL TO PARK EQUIPMENT MODEL "SOCMP-750". UNITS SHALL BE TRAFFIC DUTY AND INSTALLED AS PER MANUFACTURER RECOMMENDATIONS.
INT-2	GREASE TRAP	4"	4"	-	-	500 GALLON GREASE TRAP SHALL BE EQUAL TO PARK EQUIPMENT MODEL "GT-500". UNITS SHALL BE TRAFFIC DUTY AND INSTALLED AS PER MANUFACTURER RECOMMENDATIONS.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD MODEL #26-P CHROME FINISH WALL MOUNTED FAUCET, WITH BACK FLOW PREVENTER, AND LOOSE TEE KEY.
ICB-1	ICE CONNECTION BOX	-	-	3/8"	-	ICE CONNECTION BOX, GUY GRAY MODEL #BIM-875.
WH-1	WATER HEATER	-	-	1-1/2"	1-1/2"	RHEEM COMMERCIAL ELECTRIC WATER HEATER MODEL #E85A-12, ASME, 208/3Ø, 12KW, PROVIDE EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.
CP-1	CIRCULATING PUMP	-	-	3/4"	3/4"	ITT BELL & GOSSETT SYSTEM LUBRICATED CIRCULATOR PUMP #NBF-25, 2950 RPM, 1/12HP, 115V/1PH,LEAD FREE BRONZE CONSTRUCTION WITH MAXIMUM WORKING PRESSURE OF 150 PSI AND MAXIMUM OPERATING TEMPERATURE OF 225°F. PUMP SHALL BE EQUIPPED WITH TIMECLOCK INPUT FOR SCHEDULING OPERATION OF RCP-365 DAY INPUT.
MV-1	THERMOSTATIC MIXING VALVE	-	-	3/4"	3/4"	3/4" TEMPERING MIXING VALVE BRONZE BODY EQUAL TO WILKINGS MODEL "34-ZW1070M". INSTALL SERVICE SHUT-OFF VALVES IN ALL LINES AND THERMOMETER IN THE TEMPERED WATER LINE TO PROVIDE ACCURATE MIXING TEMPERATURES. SET TEMP. TO 110°F.

1 PLUMBING SEWER RISER DIAGRAM
SCALE: N.T.S.

2 PLUMBING WATER RISER DIAGRAM
SCALE: N.T.S.

3 PLUMBING SCHEDULES
SCALE: N.T.S.

PRE-BID SET

NOT FOR CONSTRUCTION

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PROJECT #: 13023
DATE:
DRAWN BY: J.V.
CHECKED BY: G.H.

REVISION:
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2:
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4:

LINN – SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT: LINN–SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

STATE OF TEXAS · J. GABRIEL HINOJOSA · 96585 · LICENSED PROFESSIONAL ENGINEER
08-30-2021

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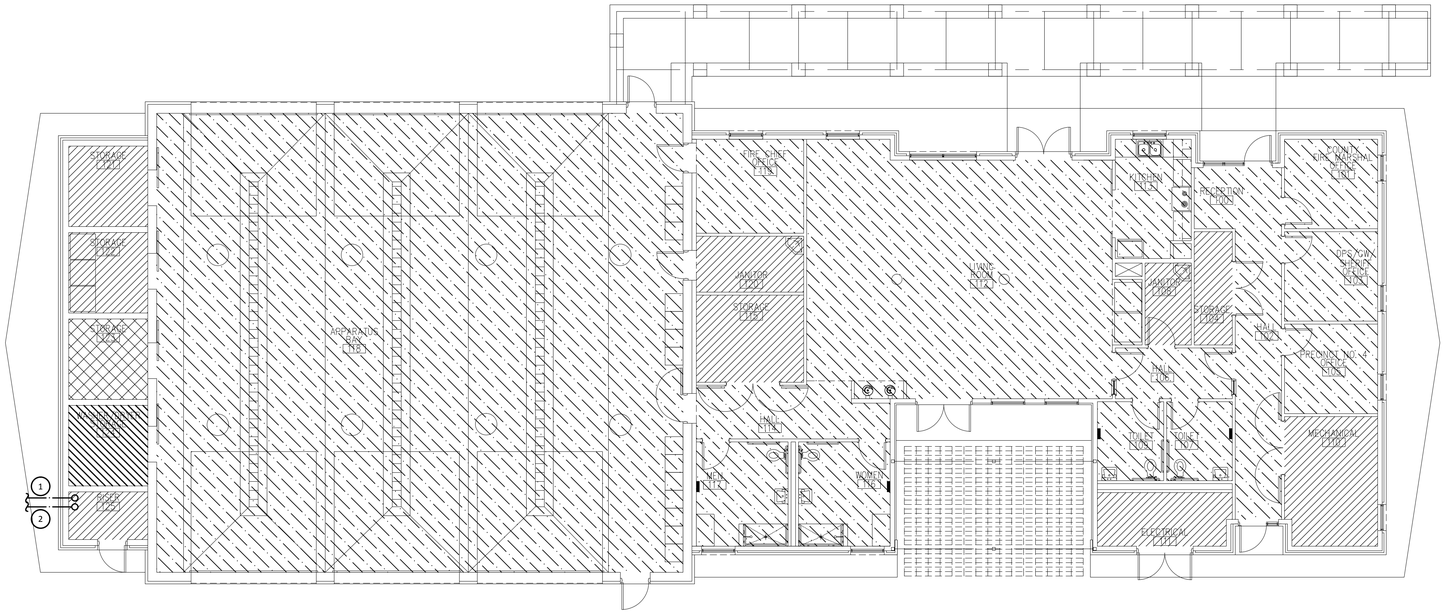
THE EXACT ROUTING OF PIPING AND PLACEMENT OF SPRINKLER HEADS SHALL BE COORDINATED WITH ARCHITECT. THIS BUILDING INCLUDES INTRICATE CEILING CONFIGURATIONS THAT WILL NECESSITATE APPROVAL OF EACH AND EVERY PIPE RUN AND SPRINKLER HEAD. THIS CONTRACTOR SHALL DESIGN THE FIRE SPRINKLER SYSTEM USING GUIDELINES ESTABLISHED BY THE ARCHITECT. OBTAIN APPROVAL FROM THE ARCHITECT FOR EACH FIRE SPRINKLER HEAD IN EACH ROOM WITHIN THE BUILDING. THE GUIDELINES ESTABLISHED BY THE ARCHITECT SHALL IN NO WAY DIMINISH THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY DESIGNED, SIZED, WORKING AND APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM AS REQUIRED BY THE CONTRACT DRAWINGS, PROJECT MANUAL/SPECIFICATIONS, THE CITY OF LINN SAN MANUEL AND THE LAWS OF THE STATE OF TEXAS. PROVIDE A COMPLETE, WORKING AND APPROVED SYSTEM.

THESE CONCEPTUAL FIRE SPRINKLER PROTECTION PLANS ARE FOR INFORMATION PURPOSES ONLY. ALL CIVIL AND FIRE SPRINKLER PLANS ARE TO BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT FOR REVIEW OF COMPLIANCE TO THE RESPECTIVE GOVERNING STANDARDS. (LINN SAN MANUEL, TEXAS)



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1 CONCEPTUAL FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET P-4.1 FOR AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES.

KEY NOTES:

1. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.
2. PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

LEGEND:

ORDINARY HAZARD GROUP 2
FOR STORAGE ROOMS, MECHANICAL ROOMS, LARGE STACK ROOM AREAS OF THE LIBRARY (IF ANY).
DESIGN DENSITY IS 0.20 GPM/SQ.FT.
250 GPM HOSE ALLOWANCE
DESIGN AREA=1500 SQ. FT.

ORDINARY HAZARD GROUP 1
FOR KITCHEN AREA AND LAUNDRY
DESIGN DENSITY IS 0.15 GPM/SQ.FT.
250 GPM HOSE ALLOWANCE
DESIGN AREA=1500 SQ. FT.

LIGHT HAZARD
FOR CLASS ROOMS, OFFICES, CORRIDORS, GYMNASIUM, CAFETERIA, AUDITORIUM (EXCEPT STORAGE AREA), LIBRARY (EXCEPT LARGE STACK ROOM AREAS).
DESIGN DENSITY IS 0.10 GPM/SQ.FT.
100 GPM HOSE ALLOWANCE
DESIGN AREA=1500 SQ. FT.

HIGH HAZARD
FOR STORAGE OF FLAMMABLE LIQUIDS
DESIGN DENSITY IS 0.60 GPM/SQ.FT.
500 GPM HOSE ALLOWANCE
DESIGN AREA=2000 SQ. FT.

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AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES:

PART 1 - GENERAL

1.01 SCOPE:

A. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ITEMS REQUIRED FOR THE COMPLETE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM.

B. ALL AREAS OF THE BUILDING SHALL BE PROTECTED BY WET AUTOMATIC FIRE SPRINKLERS.THE SYSTEM SHALL BE HYDRAULICALLY CALCULATED. DENSITY SHALL BE IN ACCORDANCE WITH NFPA-13, NFPA 24 AND NFPA 231.

C. THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FLOW TEST, FROM THE CITY, PERFORMED WITHIN THE LAST 12 MONTHS TO VERIFY ADEQUATE WATER SUPPLY FOR THE FIRE SPRINKLER SYSTEM PRIOR TO BIDDING.

D. FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DESIGNING AND INSTALLING SYSTEM.

E. WATER SUPPLY SHALL COME FROM A NEW FIRE LINE SERVICE COMPLETE WITH DOUBLE CHECK BACKFLOW PREVENTER, AND VALVING AS REQUIRED BY THE CITY. THE FIRE SPRINKLER CONTRACTOR SHALL PAY ALL TAP FEES, PERMITS, AND CHARGES NECESSARY FOR A COMPLETE AND APPROVED INSTALLATION.

1.02 QUALITY ASSURANCE:

A. SPRINKLER SYSTEM SHALL COMPLY WITH ALL APPLICABLE STATE AND CITY CODES, NFPA REQUIREMENTS, AND OWNER'S INSURANCE COMPANY REQUIREMENTS; INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. INTERNATIONAL BUILDING CODE SERIES.
2. NFPA CHAPTER 13,24 & 231.
3. LIFE SAFETY CODE NFPA-101.
4. OWNER'S INSURANCE UNDERWRITER REQUIREMENTS.
5. INTERNATIONAL FIRE CODE.

1.03 SUBMITTALS:

A. PREPARE DETAILED WORKING DRAWINGS OF THE AUTOMATIC SPRINKLER SYSTEM.

B. SUBMIT DRAWINGS AND CALCULATIONS TO FIRE MARSHAL, AND OWNER'S INSURANCE UNDERWRITER AND OBTAIN THEIR APPROVAL.

C. SUBMIT FOUR (4) COPIES OF APPROVED DRAWINGS AND CALCULATIONS TO THE ARCHITECT AND TWO (2) COPIES TO THE FIRE MARSHAL FOR THEIR REVIEW AND APPROVAL.

D. SUBMIT "CUTSHEET" SAMPLES OF SPRINKLER HEADS TO ARCHITECT FOR APPROVAL.

PART 2 - PRODUCTS

2.01 GENERAL:

A. ALL MATERIALS, EQUIPMENT, VALVES AND DEVICES INSTALLED OR FURNISHED UNDER THIS CONTRACT SHALL BE UNDERWRITERS LABORATORIES (UL) LISTED AND FACTORY MUTUAL (FM) APPROVED FOR USE BY THE AUTHORITIES, AGENCIES, CODES AND STANDARDS CITED IN THIS SECTION OF THE SPECIFICATIONS.

2.02 PIPING:

A. SPRINKLER PIPING SMALLER THAN 4" SHALL BE SCHEDULE 40 (ASTM SPECIFICATIONS A-120 OR A-53) BLACK STEEL PIPE WHICH SHALL BE ASSEMBLED WITH 175 PSIG STANDARD CAST IRON, THREADED FITTINGS OR WITH FLANGED SPRINKLER TYPE FITTINGS OR GROOVED FITTINGS AS REQUIRED. PIPING 4" AND LARGER MAY BE UL APPROVED STEEL PIPE WITH GROOVED OR WELDED FITTINGS AS APPROVED BY THE LOCAL AUTHORITIES. GROOVED FITTINGS SHALL BE VICTAULIC OR APPROVED EQUAL, THE GROOVING MACHINE SHALL BE THE SAME AS THAT RECOMMENDED BY THE FITTINGS MANUFACTURER. FLEXIBLE PIPING IS NOT ACCEPTABLE TO THE OWNER.

B. SCHEDULE 10 (THIN WALL) SPRINKLER PIPING MAY BE USED WHERE APPROVED BY THE AUTHORITIES.

C. PIPING FROM 5'-0" OUTSIDE BUILDING TO ALARM CHECK VALVE INSTALLATION SHALL BE DUCTILE IRON PIPING WRAPPED WITH 3 MIL POLYETHYLENE.

2.03 HANGERS:

A. PROVIDE NECESSARY UL APPROVED HANGERS TO SUPPORT THE SPRINKLER PIPINGS. HANGERS SHALL BE SPACED IN ACCORDANCE WITH REQUIREMENTS OF THE NFPA CHAPTER 13.

2.04 SPRINKLERS:

A. SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE PENDENT SPRAY TYPE, CHROME FINISH WITH CHROME ESCUTCHEON AND SHALL BE EQUAL TO GRINNELL ISSUE 'C' DURASPEED 1/2" ORIFICE AND UL AND FM LISTED.

B. HEADS IN AREAS WITHOUT CEILINGS AND WITH EXPOSED PIPING SHALL BE UPRIGHT TYPE, BRASS FINISH AND SHALL BE EQUAL TO GRINNELL QUICK RESPONSE MODEL "A" 1/2" ORIFICE AND UL AND FM LISTED.

C. HEAD IN VICINITY OF HEATING EQUIPMENT AND ELECTRICAL EQUIPMENT SHALL BE HIGH TEMPERATURE HEADS OF THE TYPE APPROVED BY FM AND UL.

2.05 FIRE DEPARTMENT SIAMESE:

A. FREE-STANDING WITH 5" STORZ CONNECTION WITH KNOX CAP AND SIGN IN ACCORDANCE WITH MISSION FIRE MARSHAL.

2.06 GATE VALVES:

A. GATE VALVES 2-1/2" AND LARGER SHALL BE UNDERWRITER'S APPROVAL EQUAL TO JENKINS 825A OR CRANE 467.

2.07 CHECK VALVES:

A. ALL CHECK VALVES SHALL BE EQUAL TO JENKINS 729, CRANE 375 OR WALWORTH 883F AND EQUIPPED WITH AN AUTOMATIC BALL DRIP TO DRAIN THE LINE BETWEEN THE FIRE DEPARTMENT CONNECTION AND THE CHECK VALVE.

2.08 FLOW SWITCHES:

A. PROVIDE A GRINNELL SERIES WFD FLOW SWITCH IN EACH SPRINKLER SYSTEM CONNECTION SERVING EACH SPRINKLER ZONE. SWITCHES SHALL BE SUITABLE FOR CONNECTION INTO THE FIRE ALARM SYSTEM.

2.09 MONITOR SWITCHES:

A. EACH MANUAL SECTIONALIZING VALVE AND SHUTOFF VALVE IN THE SPRINKLER SYSTEM SHALL BE PROVIDED WITH A GRINNELL F640 MONITORING SWITCH TO INDICATE WHETHER THE VALVE IS OPEN OR CLOSED. WIRING FROM SWITCHES TO THE FIRE ALARM SYSTEM WILL BE DONE UNDER DIVISION 16. THE SWITCH SHALL HAVE A TAMPER INDICATION IF REMOVED FROM ITS MOUNTING OR THE HOUSING COVER IS REMOVED; IT SHALL SIGNAL AN ALARM WHEN THE VALVE POSITION IS ALTERED.

2.10 ALARM VALVE ASSEMBLIES:

A. THE ALARM VALVE ASSEMBLY SHALL BE EQUAL TO GRINNELL MODEL A-3 CONSISTING OF A SERVICE SHUTOFF VALVE, A CLAPPER TYPE MAIN CHECK VALVE, AN AUXILIARY SEAT (ALARM OUTLET), A RETARDING CHAMBER, AND ELECTRIC CIRCUIT CLOSER, GAUGES, CHECK VALVES, GATE VALVES, GLOBE OR ANGLE VALVES AND COCKS.

2.11 WATER MOTOR GONG:

A. NOT USED

2.12 SPARE SPRINKLERS:

A. PROVIDE A WALL MOUNTED SPRINKLER CABINET WITH A MINIMUM OF 12 SPRINKLERS OF EACH TYPE INSTALLED AND A SPRINKLER WRENCH. MOUNT CABINET NEXT TO SPRINKLER ALARM VALVE.

2.13 WET CHEMICAL FIRE SUPPRESSION SYSTEM:

A. FURNISH AND INSTALL A PRE-ENGINEERED WET CHEMICAL FIRE SUPRESSION SYSTEM AS MANUFACTURED BY WELLS FARGO PYRO TECHNOLOGIES, MODEL KITCHEN KNIGHT, AS REQUIRED BY FIRE MARSHALL AND/OR OWNER'S INSURANCE UNDERWRITER

2.14 DOUBLE CHECK BACKFLOW PREVENTER

A. AS REQUIRED IN ACCORDANCE WITH LINN SAN MANUEL FIRE MARSHAL. LOCATE INSIDE FIRE RISER ROOM.

2.15 KNOX BOX

A. AS REQUIRED IN ACCORDANCE WITH LINN SAN MANUEL FIRE MARSHAL; COORDINATE LOCATION WITH FIRE MARSHAL.

PART 3 - EXECUTION

3.01 SCOPE:

A. FURNISH AND INSTALL WITH ALL RELATED ITEMS, A COMPLETELY DESIGNED FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM.

3.02 CERTIFIED CONTRACTORS:

A. FABRICATION AND INSTALLATION SHALL BE BY STATE LICENSED FIRE SPRINKLER COMPANY WITH EXPERIENCED, COMPETENT WORKMEN REGULARLY ENGAGED IN THE WORK.

3.03 COORDINATION:

A. WORK SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:

1. REQUIRED FITTINGS AND VALVES, ETC.
2. OVERHEAD SPRINKLER SYSTEM FOR ENTIRE BUILDING, INCLUDING ALL REQUIRED ITEMS, EXCEPT UNDER EXTERIOR CANOPIES AND/OR OVERHANGS OVER WALKWAYS.

3.04 DESIGN:

A. PIPING IN AREAS HAVING CEILINGS, OTHER THAN THE UNDERSIDE OF THE ROOF DECK, SHALL BE CONCEALED; PIPING IN STORAGE AND SERVICE AREAS MAY BE EXPOSED BUT KEPT AT A MINIMUM DISTANCE FROM CEILING. ALL PIPING SHALL BE NEW, CLEAN AND FREE FROM RUST.

B. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK AND SERVICES WITH ALL OTHER CEILING MOUNTED, SUSPENDED OR OVERHEAD EQUIPMENT AND WITH STRUCTURAL SYSTEM. NO SPRINKLER LINES SHALL PASS THROUGH DUCTWORK.

C. DEEP ESCUTCHEONS MAY BE USED IN ORDER TO LOCATE HEADS CLOSE TO LIGHTING FIXTURES. WHERE SPRINKLER HEADS OCCUR UNDER OVERHANGS, ESCUTCHEONS OF LESSER DEPTH MAY BE USED WHERE ACCEPTABLE TO THE CITY FIRE MARSHAL AND NFPA 13.

D. RISERS SHALL BE LOCATED WHERE INDICATED ON THE DRAWINGS AND BE EQUIPPED WITH VARIABLE PRESSURE ALARM VALVES. VALVES SHALL BE COMPLETE WITH ALL NECESSARY ITEMS, FITTINGS, IDENTIFICATION TAGS OR PLATES, AND ACCESSORIES INCLUDING ALARM VALVE AND WATER MOTOR GONG. DESIGN SHALL ALLOW FOR SUITABLE VENTING AND DRAINAGE OF SAME, ALL TO MEET WITH THE APPROVAL OF THE CITY FIRE MARSHAL AND THE OWNER'S INSURANCE UNDERWRITER AND NFPA 13.

DESIGNS REQUIRING CUTTING OF STRUCTURAL MEMBERS FOR PASSAGE OF SPRINKLER PIPE AND HANGER SHALL BE AVOIDED. WHEN DESIGN, DUE TO ECONOMY, APPEARANCE AND SIMILAR ASPECTS, DENOTE THE NECESSITY OF CUTTING, IT SHALL BE HELD TO AN ABSOLUTE MINIMUM AND DONE ONLY WITH THE ARCHITECT'S WRITTEN APPROVAL.

F. IN ADDITION TO MEETING THE NATIONAL FIRE PROTECTION ASSOCIATION NO. 13 REQUIREMENTS, THE FOLLOWING WILL APPLY TO THE SPRINKLER SYSTEM:

1. THE SPRINKLER SYSTEM SHALL BE ELECTRICALLY INTER-CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
2. THE SPRINKLER SYSTEM MAIN CONTROL VALVE SHALL BE ELECTRICALLY SUPERVISED SO THAT AT LEAST A LOCAL ALARM WILL SOUND WHEN THE VALVE IS CLOSED.

3.05 DRAWINGS:

A. SHOP DRAWINGS CONSISTING OF THE FOLLOWING SHALL BE FURNISHED BY THE SPRINKLER SUB-CONTRACTOR:

1. LAYOUT DRAWING OF COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEM INDICATING RELATIONSHIP OF ALL OTHER OVERHEAD ITEMS INCLUDING LIGHT FIXTURES, LOCATION OF RISERS, PIPING, ETC. SHALL BE AS INCONSPICUOUS AS POSSIBLE, PROVIDE A PLEASING OVERHEAD APPEARANCE, AND STILL FULFILL ALL FUNCTIONAL REQUIREMENTS.
2. SPRINKLER CONTRACTOR SHALL OBTAIN A COPY OF APPROVED CEILING GRID SYSTEM FROM CEILING SUB-CONTRACTOR AND SHALL WORK TO THIS LAYOUT WHEN PREPARING SHOP DRAWINGS AND INSTALLING WORK. CUTTING OF CEILING RUNNERS WILL NOT BE PERMITTED.
3. PILOT PLAN INDICATING LOCATION OF ALL UNDERGROUND CONNECTIONS, CONTROL VALVES, PIPING AND ALL RELATED ITEMS, AND ANY OTHER ITEMS OF DATA DEEMED NECESSARY BY THE CITY FIRE MARSHAL AND NFPA 13.
4. COMPLETE DETAILS AND SECTIONS AS REQUIRED TO CLEARLY DEFINE AND CLARIFY THE DESIGN INDICATED BY THE AFOREMENTIONED LAYOUT AND PILOT PLAN.
5. ALL SHOP DRAWINGS, PRIOR TO BEING SENT TO THE ARCHITECT, MUST BEAR BOTH THE CITY FIRE ENGINEERING DEPT. STAMP OF ACCEPTANCE AND THE OWNER'S INSURANCE UNDERWRITER STAMP OF ACCEPTANCE.

B. FURNISH AND INSTALL, NEXT TO THE SPRINKLER RISER MAIN, A PRINTED SHEET, PROTECTED BY WOOD FRAMED GLASS COVER, GIVING BRIEF INSTRUCTIONS REGARDING CONTROL, EMERGENCY PROCEDURE AND OTHER DATA AS DEEMED NECESSARY BY THE CITY FIRE MARSHAL AND THE OWNER'S INSURANCE UNDERWRITER.

C. UPON COMPLETION OF THE WORK, ACCURATELY MARK ONE COPY OF SHOP DRAWINGS SHOWING LOCATION OF ALL UNDERGROUND FIRE PREVENTION SYSTEM PIPING, VALVES, ETC., AS FINALLY INSTALLED. SHOW LOCATION OF UNDERGROUND PIPING AND VALVES BY DIMENSION. ALSO, GIVE FLOW LINE ELEVATIONS OF UNDERGROUND PIPING FROM STREET MAIN TO BUILDING. UPON COMPLETION OF THE JOB, FURNISH OWNER ONE (1) NEAT LEGIBLE COPY OF "AS BUILT" DRAWINGS.

3.06 INSTALLATION:

A. SLEEVES SHALL BE PROVIDED FOR PIPING PASSING THROUGH CONCRETE SLABS, CONCRETE OR MASONRY WALLS AND PARTITIONS, THROUGH FLOORS, CEILINGS, WALLS AND PARTITIONS OF OTHER BUILDING MATERIALS. WATERTIGHT SLEEVES CAULKED WITH MASTIC OR LEAD SHALL BE PROVIDED FOR FLOOR SLABS AND WALLS ON OR BELOW GRADE. STANDARD PIPE OR GALVANIZED SHEET METAL SLEEVES SHALL BE INSTALLED IN ABOVE GRADE CONSTRUCTION AS MAY BE REQUIRED. THE SLEEVES SHALL BE OF SUFFICIENT DIAMETER TO PASS PIPE LINES WITH COUPLINGS OR WITH INSULATION OR ANNULAR AREA FOR CAULKING WHERE REQUIRED. ESCUTCHEONS SHALL BE APPROVED FLOOR AND CEILING PLATES MADE OF STEEL OR BRASS, PLAIN OR CHROMIUM PLATE FINISH AND SHALL BE INSTALLED AROUND ALL EXPOSED PIPING PASSING THROUGH A FINISHED FLOOR, WALL OR CEILING. THE PLATES SHALL BE OF SUFFICIENT OUTSIDE DIAMETER TO COVER THE SLEEVE OPENING AND SHALL BE PROVIDED WITH SPRINGS OR SET SCREWS TO INSURE THEM FITTING SNUGLY AROUND THE PIPE.

B. ALL OPENINGS FOR PIPING SHOULD BE ANTICIPATED AND INDICATED ON THE APPROVED AND ACCEPTED SHOP DRAWINGS. ANY ADDITIONAL CUTTING OF OPENINGS MUST HAVE WRITTEN APPROVAL OF THE ARCHITECT.

C. THIS CONTRACTOR WILL NOT USE AIR CONDITIONING DUCT SUPPORTS, AIR DEVICE OUTLETS OR SUPPORTS, PIPING OR SUPPORTS AS A MEANS OF SUPPORT OF ANY MATERIAL, ACCESSORIES OR WORKMEN IN THE INSTALLATION OF THE SYSTEM.

3.07 GUARANTEE:

A. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE BUILDING ACCEPTANCE DATE.

3.08 TESTS:

A. PRIOR TO CONNECTING TO THE OVERHEAD SPRINKLER PIPING, THE UNDERGROUND MAIN SHALL BE FLUSHED PER THE REQUIREMENTS OF THE NFPA.

B. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE TESTED FOR ACCEPTANCE BY THE OWNER'S INSURANCE UNDERWRITER.

3.09 ACCEPTANCE:

A. THE OWNER'S INSURANCE UNDERWRITER, AFTER SATISFYING THEMSELVES THAT THE INSTALLATION IS SATISFACTORY IN ALL RESPECTS, WILL ISSUE A LETTER OF FINAL ACCEPTANCE. LETTER SHALL BE ADDRESSED TO THE SPRINKLER COMPANY RESPONSIBLE FOR THE INSTALLATION, PREPARED IN TRIPLICATE AND GIVEN TO THE OWNER.

B. AFTER COMPLETION OF ALL INSTALLATION, TESTS, ETC. AND PRIOR TO THE OPENING DATE THE SPRINKLER CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF THE SPRINKLER SYSTEM. PROVIDE WRITTEN OPERATING INSTRUCTIONS AND MOUNT ON WALL IN A FRAME WITH GLASS FRONT. INCLUDE THE FOLLOWING SO THAT THE OWNER:

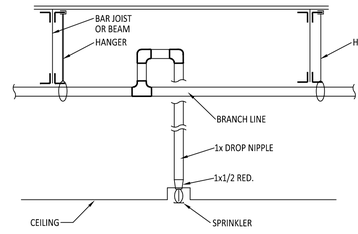
1. WILL IMMEDIATELY RECOGNIZE THE MAIN VALVES ARE IN OPEN OR CLOSED POSITION.
2. WILL KNOW HOW TO DRAIN THE SYSTEM.
3. WILL KNOW HOW TO RESET THE ALARM SYSTEM.
4. WILL KNOW NOW TO MAKE COMPLETE WEEKLY INSPECTION.
5. WILL KNOW HOW TO MAINTAIN THE SYSTEM IN ACCORDANCE WITH NFPA NO. 13.

3.10 PROTECTION DURING CONSTRUCTION:

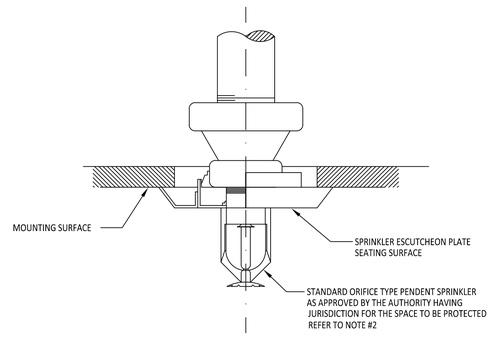
A. CONTRACTOR SHALL COMPLETE THE AUTOMATIC FIRE SPRINKLER SYSTEM READY FOR OPERATION, IN ALL RESPECTS, AS SOON AS POSSIBLE. WHEN THE SYSTEM IS COMPLETE AND READY FOR CONTINUOUS OPERATION, ACTIVATE THE SYSTEM FOR ITS INTENDED USE.

FIRE PROTECTION NOTES:

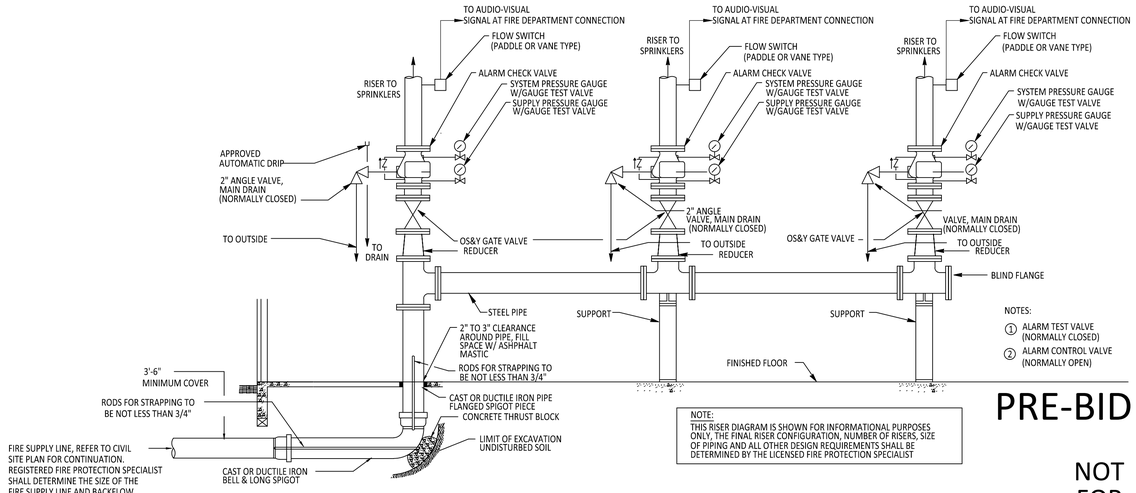
1. CONTRACTOR SHALL INSTALL AN AUTOMATIC SPRINKLER SYSTEM FOR THE BUILDING IN ACCORDANCE WITH NFPA 13. "INSTALLATION OF SPRINKLER SYSTEM" AS DESIGNED BY A LICENSED FIRE PROTECTION SPECIALIST, AND AS APPROVED BY THE CITY OF LINN SAN MANUEL, TX. FIRE MARSHAL AND THE OWNER'S INSURANCE UNDERWRITER.
2. ALL SPRINKLERS LOCATED IN LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 AREA SHALL BE "STANDARD ORIFICE TYPE" WITH 1/2 INCH DIAMETER NOMINAL ORIFICE SIZE, AND ALL SPRINKLERS LOCATED IN ORDINARY HAZARD GROUP 2 AREA SHALL BE "LARGE ORIFICE TYPE" WITH 17/32 INCH DIAMETER NOMINAL ORIFICE SIZE OR OTHER FM APPROVED AND UL LISTED SPRINKLERS AS APPROVED FOR THE PROPOSED APPLICATION.
3. CONTRACTOR SHALL INSTALL PORTABLE FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS IN ACCORDANCE WITH NFPA 10 UNLESS OTHERWISE INDICATED BY THE CITY FIRE MARSHAL COORDINATE LOCATION WITH ARCHITECT.
4. CONTRACTOR SHALL INSTALL A FIRE ALARM SYSTEM REQUIRED FOR LIFE SAFETY IN ACCORDANCE WITH NFPA 70, NFPA 72. FACTORY MUTUAL ENGINEERING DESIGN CRITERIA, INTERNATIONAL FIRE CODE, CITY APPLICABLE BUILDING CODE, TEXAS ACCESSIBILITY STANDARDS, AND THE AMERICAN WITH DISABILITIES ACT REQUIREMENTS. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE PROPOSED FIRE ALARM SYSTEM DESIGN AND PRODUCT INFORMATION, AS PREPARED BY A REGISTERED QUALIFIED FIRE ALARM SPECIALIST.
5. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S REVIEW AND APPROVAL (BEFORE COMMENCEMENT OF WORK) A PROPOSED FIRE PROTECTION SPRINKLER SYSTEM PREPARED BY A LICENSED AND REGISTERED FIRE SPRINKLER SYSTEM PROFESSIONAL, THE SUBMITTAL SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING ELEMENTS:
   A) CONSTRUCTION DRAWINGS OF THE PROPOSED FIRE PROTECTION SYSTEM. INCLUDING: PIPE LAYOUT, ALARM VALVE, DRAIN VALVES, TEST VALVES, ETC., AND THE CENTERLINE ELEVATIONS OF THE BRANCH LINES, CROSS MAINS AND FEED MAINS.
   B) CONTRACTOR'S WORK PLAN AND SCHEDULING.
   C) METHODS AND MATERIALS OF CONSTRUCTION. THE LICENSED PROFESSIONAL MUST BE KNOWLEDGEABLE WITH AND IN COMPLIANCE WITH ALL APPROPRIATE UL LISTINGS AND FACTORY MUTUAL REQUIREMENTS. SYSTEM DESIGN, MATERIAL, FABRICATION AND INSTALLATION SHALL MEET MOST CURRENT EDITION OF NFPA 13, UNIFORM FIRE CODE, AND FACTORY MUTUAL DESIGN AND INSTALLATION REQUIREMENTS AND SHALL BE SUBMITTED FOR APPROVAL BY CITY FIRE MARSHAL, STATE AND THE OWNER'S INSURANCE UNDERWRITER.
6. 3" AND LARGER PIPING SHALL BE BLACK CARBON STEEL SCH-40 ASTM A53 WITH CUT GROOVED FITTINGS. 2 1/2" AND SMALLER PIPING SHALL BE BLACK CARBON STEEL SCH-40 ASTM A53 WITH THREADED CLASS 125 FITTINGS. ALL PIPE HANGERS SHALL BE BLACK CARBON STEEL. PIPING, FITTINGS AND PIPE HANGERS BE AS MANUFACTURED BY VICTAULIC, ITT GRINNEL, GRUVLOK OR APPROVED EQUAL. OR OTHER FM APPROVED AND UL LISTED PIPING AS APPROVED FOR THE PROPOSED APPLICATION.
7. ALL PIPE HANGER MATERIAL TO BE BLACK IRON.
8. NEW PIPING TO BE HYDROSTATIC ALLY TESTED AT 210 PSI FOR A MINIMUM 2 HOURS, TEST TO BE WITNESSED BY OWNER'S REPRESENTATIVE.
9. CONTRACTOR SHALL INSTALL FIRE PROTECTION SYSTEM PLUMB AND STRAIGHT WITH BUILDING VERTICAL AND HORIZONTAL.
10. ALL VALVES SUCH AS INSPECTOR TEST VALVES TO BE LOCATED AT LEAST 6' FROM FLOOR. INSPECTOR TEST VALVES SHALL BE INSTALLED AS PER NFPA 13 REQUIREMENTS.
11. CONTRACTOR SHALL PLACE THE SPRINKLER HEADS IN THE CENTERS OF THE CEILING TILES, AND SHALL ALIGN SPRINKLER HEADS.
12. CONTRACTOR SHALL INSTALL HIGH END TEST STATIONS AND LOW END DRAINS AS REQUIRED BY NFPA 13.
13. CONTRACTOR SHALL INSTALL ALL SPRINKLER PIPES AND FITTINGS LEVEL, SO THAT THE SYSTEM CAN BE DRAINED, TRAPPED PIPING SHALL BE DRAINED THROUGH AUXILIARY DRAINS. THESE AUXILIARY DRAINS SHALL BE INSTALLED AT THE LOCATIONS WHERE A CHANGE IN PIPING DIRECTION PREVENTS DRAINAGE OF THE SYSTEM PIPING THROUGH THE MAIN DRAIN VALVE.



1 TYPICAL PENDENT SPRINKLER DETAIL
SCALE: N.T.S.



2 TWO-PIECE (ADJUSTABLE) FLUSH ESCUTCHEON PLATE
SCALE: N.T.S.



NOTE:
THIS RISER DIAGRAM IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, THE FINAL RISER CONFIGURATION, NUMBER OF RISERS, SIZE OF PIPING AND ALL OTHER DESIGN REQUIREMENTS SHALL BE DETERMINED BY THE LICENSED FIRE PROTECTION SPECIALIST

3 WET PIPE RISER DETAIL
SCALE: N.T.S.

THESE CONCEPTUAL FIRE SPRINKLER PROTECTION PLANS ARE FOR INFORMATION PURPOSES ONLY. ALL CIVIL AND FIRE SPRINKLER PLANS ARE TO BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT FOR REVIEW OF COMPLIANCE TO THE RESPECTIVE GOVERNING STANDARDS. (LINN SAN MANUEL, TEXAS)

PRE-BID SET

NOT FOR CONSTRUCTION

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CHECKED BY: G.H.
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2:
3:
4:

LINN – SAN MANUEL
EMERGENCY SERVICES FACILITY
PRECINCT NO. 4

PROJECT: LINN–SAN MANUEL, TEXAS
OWNER: HIDALGO COUNTY

STATE OF TEXAS · GABRIEL HINOJOSA · 96585 · LICENSED PROFESSIONAL ENGINEER
06-04-2021

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SHEET: P-4.1

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