

PLANS FOR

NEW AWNING AND WALKWAYS

DRAWING NO. 300-2725

FOR

MEDINA REGIONAL HOSPITAL

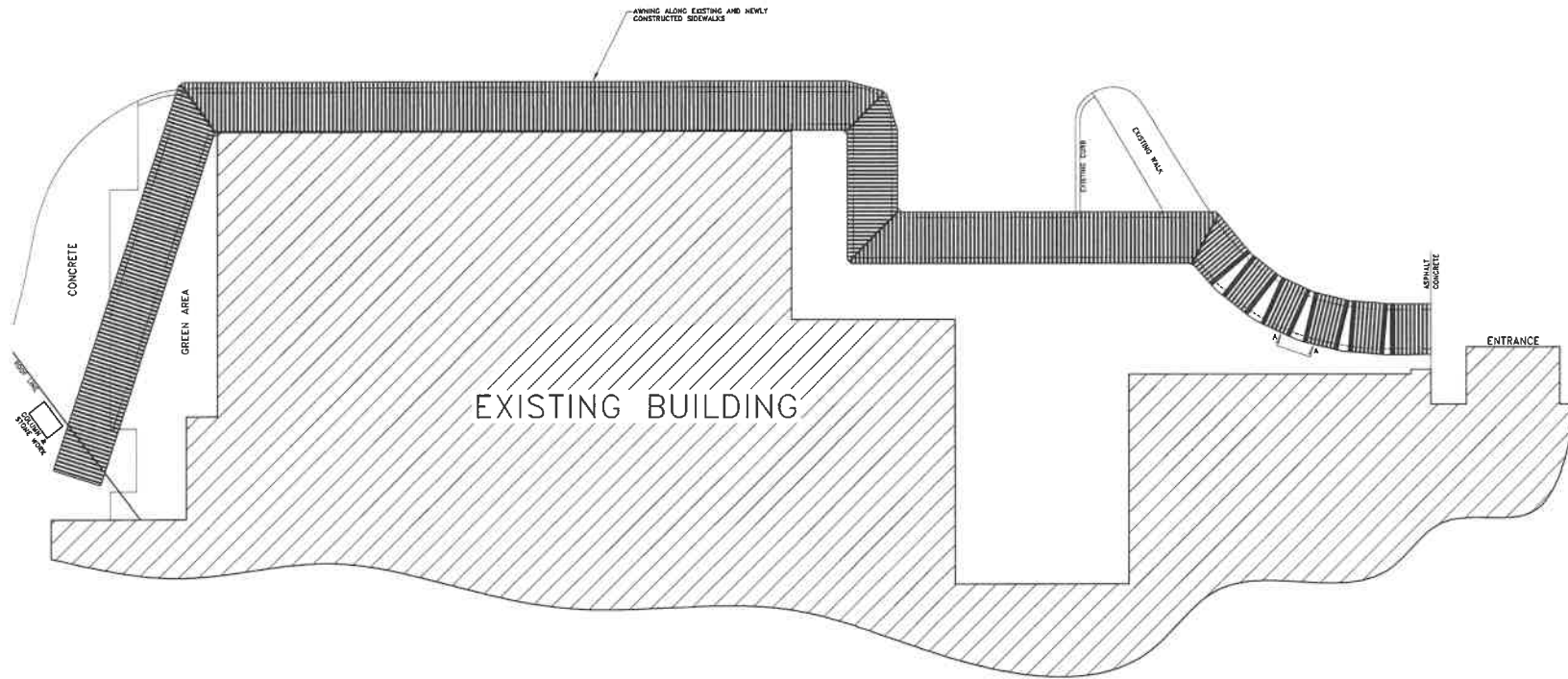
3100 AVENUE E

HONDO, MEDINA COUNTY, TEXAS



MANGOLD ENGINEERING COMPANY

FIRM NO. F-5549



AWNING LAYOUT
 Scale: 1/8" = 1'-0"

Plans For:
 MEDINA REGIONAL
 HOSPITAL

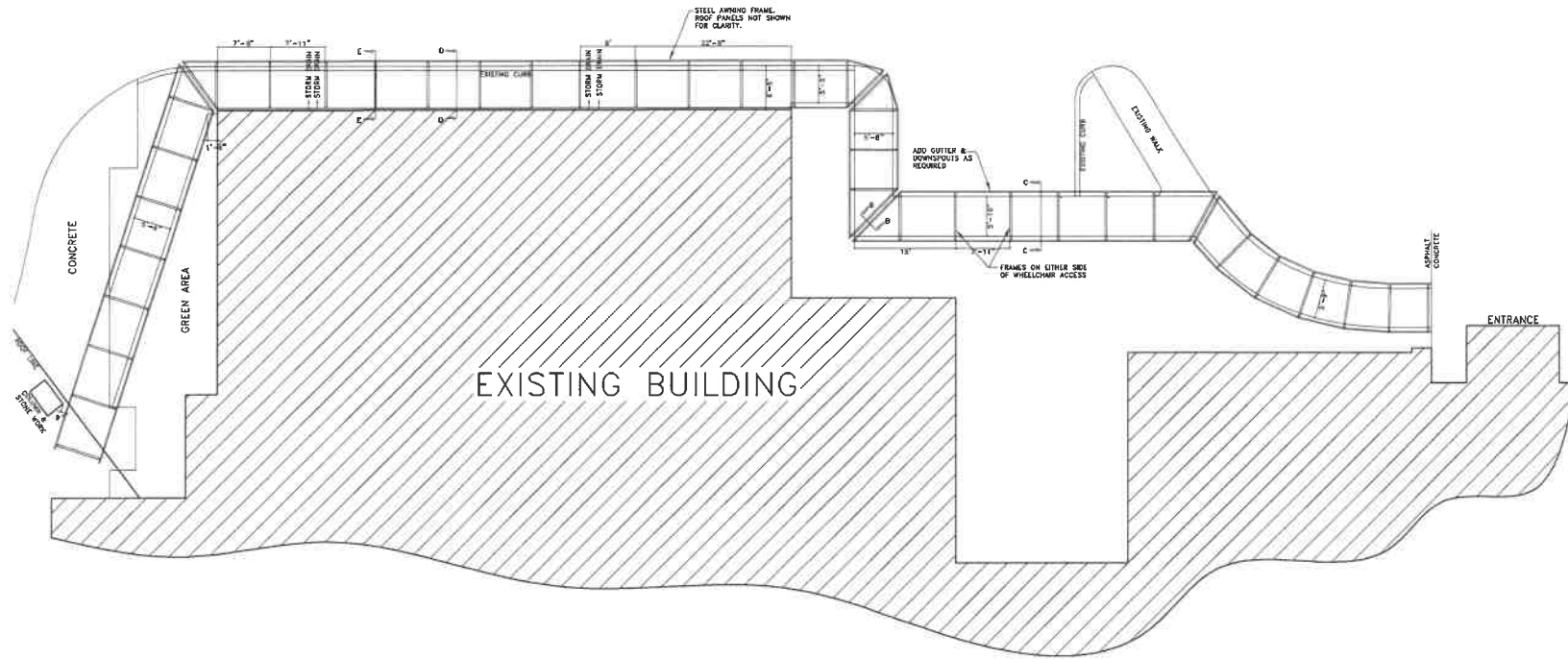
MANGOLD ENGINEERING COMPANY
 5596 CR 5710
 Devine, Texas 78016
 FIRM NO. F-5549
 Phone: (830) 931-0400
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Dwg: 100-2725
 Date: 2/19/24
 Revision: I.R.
 Drawn: S. Mangold
 Sheet: 1 of 5



ALL UNDERGROUND UTILITIES SHALL BE LOCATED AND IDENTIFIED PRIOR TO ANY ON-SITE EXCAVATION.



AWNING FRAME LAYOUT
Scale: 1/8" = 1'-0"

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ONLY USE NOTES WHICH APPLY TO THIS DESIGN!

1. VERIFICATION:

Verify all dimensions and elevations, do not scale drawings for dimensions. Notify Engineer of any discrepancies between Drawings, fabricated items of actual field conditions. Contractor, Subcontractor, and Material Fabricator shall advise the Engineer of any discrepancy or discrepancy of which they have knowledge along with field suggested location, prior to ordering and/or installing the incident in question. Assumptions have been made by this office regarding existing conditions. Actual conditions may vary from those assumed. The Contractor is to report any such discrepancies to the Engineer for possible modifications needed to the Contract Drawings.

2. SHOP DRAWINGS AND SUBMITTALS:

Submit Shop Drawings for Engineer review prior to fabrication. Dimensions will not be checked and any errors in dimensions shown on Shop Drawings shall be the responsibility of the Contractor. Materials Fabricators shall provide complete Drawings showing location and position of all structural items. All submitted Shop Drawings shall include clear identification of all deviations from the Contract Documents. Materials Fabricators shall provide complete Drawings showing location and position of all structural items. All submitted Shop Drawings shall include clear identification of all deviations from the Contract Documents. Materials Fabricators shall provide complete Drawings showing location and position of all structural items. All submitted Shop Drawings shall include clear identification of all deviations from the Contract Documents.

3. SITE DRAINAGE:

Site drainage during construction is very important to controlling moisture problems associated with the building. The following measures are to be taken by the Contractor:

- Installation of berms or swales on the uphill side of the operation. Berms or swales shall be placed at least 10 feet from the fill area during construction.
- Stripping the surface of the subgrade and sealing fill during construction and work shall be performed by pre-qualified certified workers.
- No mechanical units are to be hung from roof structure (such as A/C units, heater units, etc.) without Engineer approval.

Contractor is to approximate the following requirements with the Civil and Landscaping drawings, if necessary:

- Location of water-bearing utilities, roof drainage outlets and irrigation spray heads outside the granular fill and perimeter grade boundaries.

4. BUILDING PAD PREPARATION:

Limit of Preparation: Limits of preparation shall extend to 2'-0" beyond the building lines or as shown on Drawings.

- Strip area of all vegetation (6" deep).
- Excavate additional material as required to provide a minimum of 12" of compacted select fill below the slab.
- Compact exposed grade to 95% of Std. Proctor Density. Install SELECT FILL to 6" DTH, compacting each lift to 95% of Standard Proctor Density at the optimum moisture content. This select fill shall have a liquid limit less than 40% and a PI less than 12. This material shall be a granular material with maximum aggregate size of 3", and shall provide an adequate wedge for expansion and cold stability. Provide 3 density tests for each compacted lift. Compaction tests on subgrade & lifts to be performed by an independent testing lab, with results sent to the Structural Engineer.

5. CONCRETE:

All concrete and reinforcing shall meet ASTM A615 & A617 (Standard Tolerances for Concrete Construction and Materials), U.S.A. Strength Based on 78 day compressive strength tests, 5000 psi.

Reinforcing: Provide a set of four cylinders to be taken for every 15 cubic yards of concrete or fraction thereof by an independent testing lab. Compressive test results to be sent to Structural Engineer.

Reinforcing: ASTM A615, Grade 60 deformed bars, #3 bars may be grade 40.

Reinforcing on slabs shall be topped 30 bar dia., unless otherwise noted. Provide corner bars at all corners and "I" intersections, equal in size and number, in beam or slab reinforcing respectively.

Column anchor bolts shall NOT be "wet set". Use template to set and secure all anchor bolts.

6. GROUND FLOOR CONSTRUCTION:

Refer to drawings for all floor finishes, dimensions and location of slab drops and depressions.

- Fill supported slabs are 5" thick with #4 rebar 12" o.c. each way in top of slab. Support bars on steel chairs with flat base tied to reinforcing bars at 6" o.c. each way. Support bottom beam bars at 4'-0" intervals. Place slab on 6" mill polystyrene vapor barrier using 12" logs.
- Grade beams are formed by walls and soffit of carefully sloped trench. Wood form exposed face to a depth of 8" below finished grade. All beams soffit shall bear 18" minimum into first grade or compacted fill. On partners, increase scheduling depth as required for beams depth exceeds 36", add #4 at 12" o.c. horizontal bars in each face of beam.
- Include an allowance for preloading and placing one-half ton of reinforcing bars (only steel) to be used as directed on shop drawings or in field for special conditions. Upon completion of project, rebar to cover any amount of concrete rebaring of 8000 psi.
- When mechanical line trenches are to intersect grade beams, they must be approved by the Engineer and pass under or thru rebar 90 deg. to the beam line. Fill and compact all mechanical trenches under the building as noted above.
- General Contractor shall inspect for completion of trenching & steel placement/ placement before scheduling inspection.

7. STRUCTURAL STEEL:

All structural steel shall meet ASTM A36, AISI Spec. 1989, and the AISI Code of Standards Practice for Steel Buildings and Bridges 1986, excluding Section 4.2.1.

- Contractor to provide bracing for punching and to resist all wind and construction loads in sufficient quantity to insure stability of the components and structure throughout the entire construction period.
- Structural Steel Tubes ASTM A500, Grade B (Fy=46 ksi). Pipes ASTM A531 (Fy=36 ksi).
- Rebar ASTM A-335, 3/4" Dia. unless noted otherwise on Drawing.
- Welding shall meet the requirements of the AWS for building construction and work shall be performed by pre-qualified certified workers.
- No mechanical units are to be hung from roof structure (such as A/C units, heater units, etc.) without Engineer approval.

8. CMU WALLS:

All concrete masonry units (CMU) shall comply with ASTM C90, Type 1, with a minimum net compressive strength of 1800 psi.

- All CMU walls shall be constructed using Portland cement and hydrated lime or using mortar cement type M or S. Mortar. Prepared in accordance with ASTM C270.
- Grout for block ends, holes and bond beams shall have minimum compressive strength of 5000 psi.
- All CMU walls provide vertical grouted reinforced walls and corners and at both joints of doors, windows, open side egress to control drifts, and other openings, and otherwise at 4'-0" intervals, maximum. Reinforce each block end with #4 rebar extending into bond beams at top of wall with installing dowels in foundation. Fill vertical ends in 4'-0" max. lift. Stop four 1" below top of each lift to form a cap.
- Masonry lintels shall have a bearing length on each side of the opening of at least 8 inches. See Typical CMU details for more information.
- Cells of concrete masonry units under all lintel bearings shall be grouted solid for the full height of the opening. One cell of two cell walls and two cells of three cell walls shall be filled on each side of the opening.
- Provide continuous concrete block masonry bond beams (8" minimum depth) along top of all CMU walls. Reinforce with 2 #4 bars per beam. Additional bond beams shall be provided at 8' maximum vertical spacing. Provide corner bars in bond beams. Grout holes and bond beams prior to laying additional courses above.
- Use 3 wire mesh ties, standard single wire (8" side and cross rods) masonry wall reinforcement at 16" o.c. vertically, with 6" average. First tie layer to be on the foundation.
- Grid reinforcement shall be placed so that longitudinal wires are embedded on the wall or wythe and are fully embedded in mortar for their entire length.
- Grid reinforcement of openings shall extend not less than 24 inches beyond the end of slits or holes or to the end of the panel if the distance to the end of the panel is less than 24 inches.
- Grid reinforcement shall not be continuous through control joints or expansion joints. Provide 1/2" dia. steel rods and sleeves (one on one end and across control joints in all bond beams).
- Grid reinforcement shall be lap spliced 6 inches or more for deformed longitudinal wires and 12 inches or more for smooth longitudinal wires.

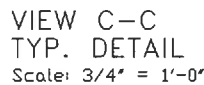
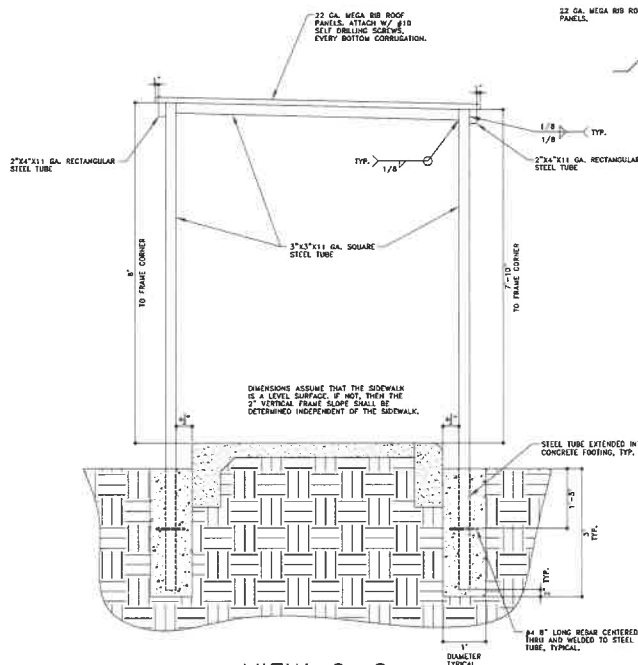
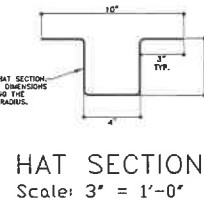
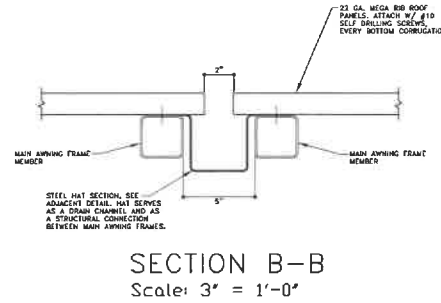
9. APPLICABLE DESIGN LOADS:

LIVE LOADS:
Roof 20 psf

WIND LOADS:
Roof 10 psf

DEAD LOADS:
Roof 2 psf Mega-Rib panels only

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