

LOCATION MAP



BUILDING VIEW

RE-ROOFING PROJECT FIRE DEPARTMENT SUBSTATION # 4 CITY OF MISSION

(3408 N. INSPIRATION RD., MISSION TEXAS 78572)

INDEX OF SHEETS

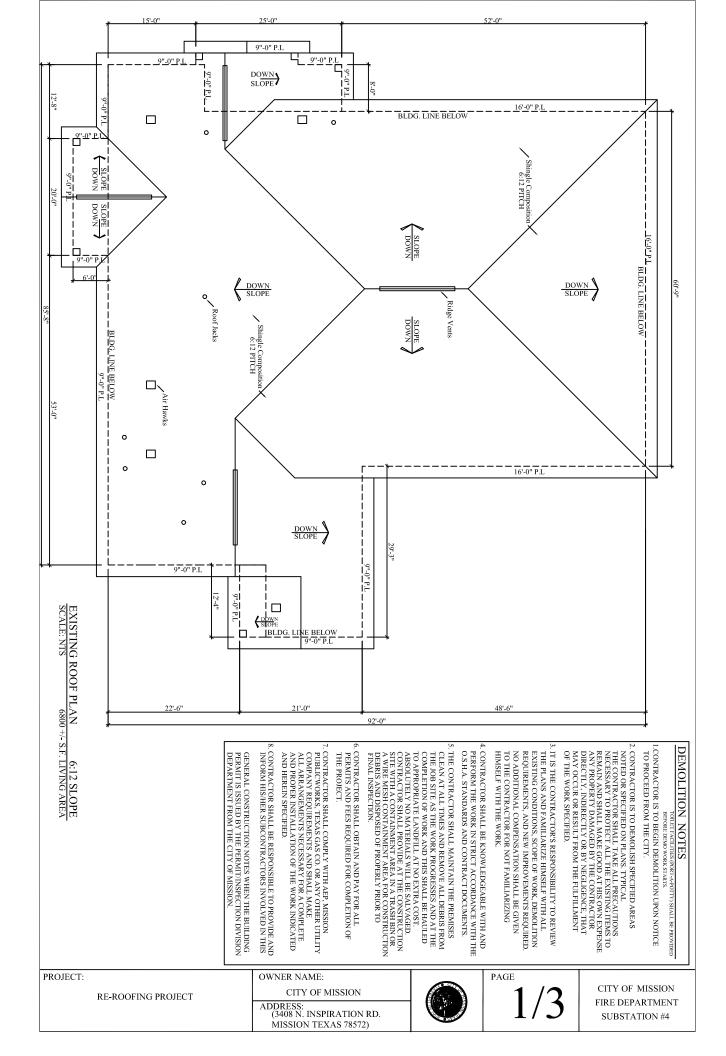
- 1 EXISTING ROOF LAYOUT2 PROPOSED ROOF LAYOUT
- 3 SCOPE OF WORK

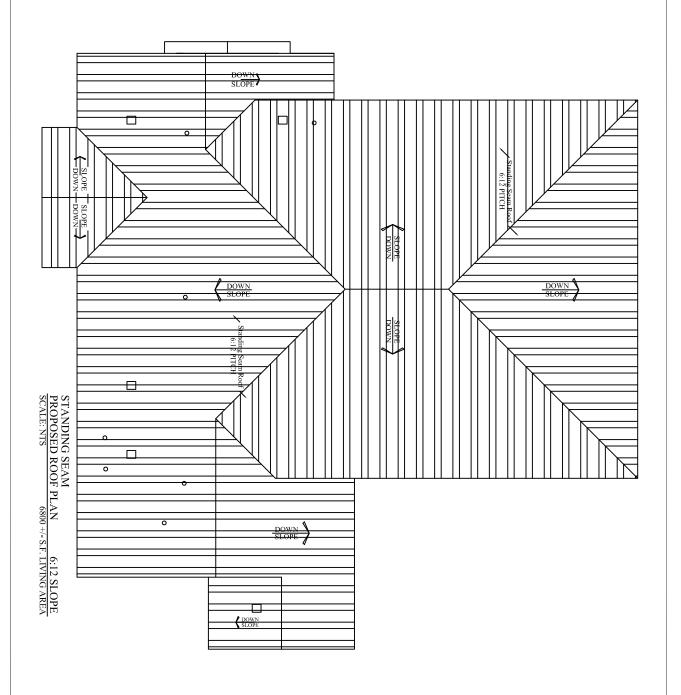


CITY OFFICIALS

ARMANDO OCANA------MAYOR
JESSICA ORTEGA-OCHOA---MAYOR PRO-TEM
NORIE GONZALEZ-GARZA---COUNCIL MEMEBER RUBEN PLATA----ALBERTO VELA---------COUNCIL MEMBER ---COUNCIL MEMBER

RANDY PEREZ-------CITY MANAGER





PROJECT:

RE-ROOFING PROJECT

OWNER NAME: CITY OF MISSION

ADDRESS: (3408 N. INSPIRATION RD. MISSION TEXAS 78572)



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CITY OF MISSION FIRE DEPARTMENT SUBSTATION #4

City of Mission Fire Station #4

Standing Seam Roof Construction Specifications

SUMMARY

A. Section includes standing- seam metal roof panels.

Review and finalize construction schedule and verify availability of materials, Installer's

personnel, equipment, and facilities needed to make progress and avoid delays.

2. Review structural loading limitations of deck purlins and rafters during and after roofing. Review flashings, special details, drainage, penetrations, equipment curbs, and

1.3 ACTION SUBMITTALS

condition of other construction that affect metal panels.

A. Product Data: For each type of product.

and profiles and finishes for each type of panel and accessory Include construction details, material descriptions, dimensions of individual components

and accessories; and special details. joints, panel profiles, comers, anchorages, attachment system, trim, flashings, closures, Include fabrication and installation layouts of metal panels; details of edge conditions,

Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of

D. Samples for Initial Selection: For each type of metal panel indicated with factory-applied

Include similar Samples of trim and accessories involving color selection

written instructions and warranty requirements. conditions permit assembly of metal panels to be performed according to manufacturers' A. Weather Limitations: Proceed with installation only when existing and forecasted weather 1.4 FIELD CONDITIONS

specified warranty period.

replace components of metal panel systems that fail in materials or workmanship within Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair

Failures include, but are not limited to, the following:

Structural failures including rupturing, cracking, or puncturing

 Deterioration of metals and other materials beyond normal weathering. Warranty Period: Two years from date of Completion.

applied finishes within specified warranty period. B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-

Exposed Panel Finish: Deterioration includes, but is not limited to, the following:

A. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
B. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.

C. Cracking, checking, peeling, or failure of paint to adhere to bare metal

Finish Warranty Period: 20 years from date of Completion.

agrees to repair or replace standing- seam metal roof panel assemblies that fail to remain Special Weathertightness Warranty: Manufacturer's standard form in which manufacturer

 Warranty Period: 2 years from date of Substantial Completion. weathertight, including leaks, within specified warranty period.

2.1 STANDING-SEAM METAL ROOF PANELS

cleats, pressure plates, and accessories required for weathertight installation.

1. Steel Panel Systems: Unless more stringent requirements are indicated, c interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips inside laps. Provide factoryformed metal roof panels designed to be installed by lapping and Include clips,

Unless more stringent requirements are indicated, comply with

Aluminum Panel Systems: Unless more stringent requirements are indicated, comply

panels, engaging opposite edge of adjacent panels, and snapping panels together c. Color: As selected by the owner from manufacturer's full range. with ASTM E 1637.

B. Design is based on UC- 3 Double- Lock Seam, Standing Seam roofing system, roll formed mechanically attaching panels to supports using concealed clips located under one side of ribs symmetrically spaced a flat pan between ribs; designed for sequential installation by Steel Metal Roof Panels: Formed with vertical ribs at panel edges and intermediate stiffening

d. Length: Full length of roof slope, without lapped horizontal joints.

e. Width: Maximum panel coverage of 20 inches (508 mm).

f. Profile: Standing seam, with minimum 1.5-inch (38 mm) seam height, concealed fastener system lapped seam in standing seam profile.

2.3 UNDERLAYMENT MATERIALS

sheet

A. Self- Adhering, High- Temperature Underlayment: Provide self- adhering, cold- applied,

underlayment, a minimum of 36 mils thick, consisting of slip- resistant, polyethylene- film top surface laminated to a layer of butyl or SBS- modified asphalt adhesive, with release- paper backing. Provide primer when recommended by underlayment manufacturer.

Roll Width: 36 inches.
 Roll Length: 75 feet.

A. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, otherwise indicated. fillers, closure strips, and similar items. Match material and finish of metal panels unless

panels Closures: Provide closures at eaves and ridges, fabricated of same metal as metal

Backing Plates: Provide metal backing plates at panel end splices, fabricated from

 Closure Strips: Closed- cell, expanded, cellular, rubber or crosslinked, polyolefin- foam o closed- cell laminated polyethylene; minimum 1- inch- thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or material recommended by manufacturer. foam or

Finish flashing and trim with same finish system as adjacent metal panels are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. required to seal against weather and to provide finished appearance. Locations include, but necessary to ensure weathertight construction.

A. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as

trim. supports spaced a maximum of 36 inches o.c., fabricated from same metal as gutters. Provide wire ball strainers of compatible metal at outlets. Finish gutters to match roof fascia and rake and other special pieces as required. Fabricate in minimum 96- inch- long sections, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Furnish gutter B. Gutters: Formed from same material as roof panels, complete with end pieces, outlet tubes,

C. Downspouts: Formed from same material as roof panels. Fabricate in 10- foot- long sections,

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complete with formed elbows and offsets, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Finish downspouts to match gutters.

size and C-, or Z- shaped steel sheet. with bottom of skirt profiled to match roof panel profiles and with welded top box and integral full- length cricket. Fabricate curb subframing of 0.060- inch- nominal thickness, angle-, D. Roof Curbs: Fabricated from same material as roof panels, 0.048-Fabricate curb and subframing to withstand indicated loads of inch nominal thickness

height indicated. Finish roof curbs to match metal roof panels. Insulate roof curb with 1- inch- thick, rigid insulation

F. Panel Fasteners: Self- tapping screws designed to withstand design loads

G. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish

> scalant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick. Pressure- sensitive, 100 percent solids, gray polyisobutylene compound

PART 3

3.1 EXAMINATION

performance of the Work requirements for installation tolerances, metal panel supports, and other conditions affecting Examine substrates, areas, and conditions, with Installer present, for compliance with

channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer. Examine primary and secondary roof framing to verify that rafters, purlins, angles, Examine solid roof sheathing to verify that sheathing joints are supported by framing or

backing substrate to prevent air infiltration or water penetration. A. Verify that air- or water- resistive barriers have been installed over sheathing or blocking and that installation is within flatness tolerances required by metal roof panel

B. Examine roughing- in for components and systems penetrating metal panels to verify actual C. Proceed with installation only after unsatisfactory conditions have been corrected. locations of penetrations relative to seam locations of metal panels before installation

3.2 CLEANING AND PROTECTION

completion of metal panel installation, clean finished surfaces as recommended by metal installed, unless otherwise indicated in manufacturer's written A. Remove temporary protective coverings and strippable films, if any, as metal panels are panel manufacturer. Maintain in a clean condition during construction. ç

B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

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