

Electric Substation Screening for Loop 82 Substation



Loop 82 Substation



Loop 82 Substation



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Austin Energy – Fiesta Substation, built in 2003 (Gas Insulated Substation)
Cost for enclosure, approximately \$163k (\$510/ft. installed)



Austin Energy – Fiesta Substation



Austin Energy – Fiesta Substation



Austin Energy – Mueller Substation built in 2010 (conventional air insulated substation). Cost for enclosure, approximately \$218k.



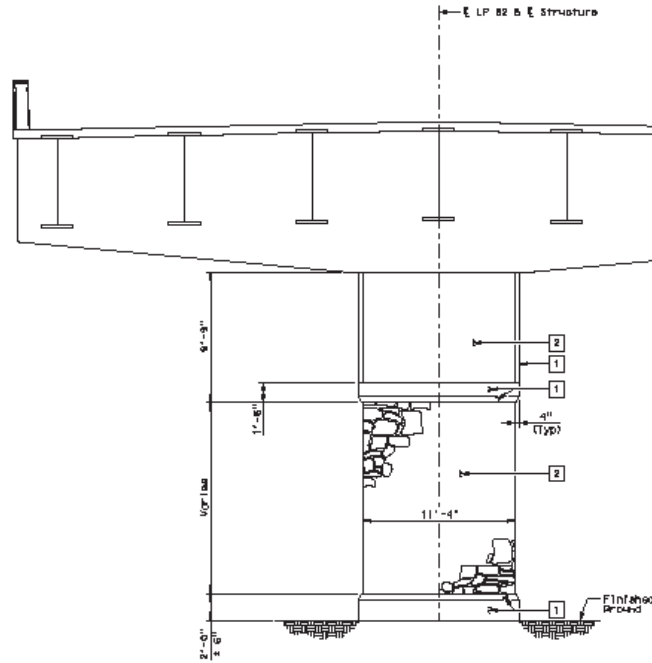
Austin Energy – Mueller Substation



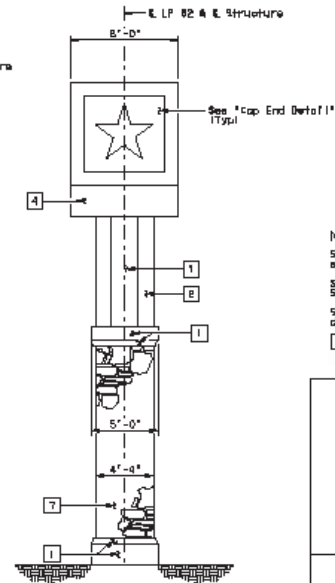
The following pages show the aesthetic details of the Loop 82 Overpass near the Loop 82 Substation.

PROJECT: COUNTY, STATE, DISTRICT, SHEET NO.
 PROJECT: COUNTY, STATE, DISTRICT, SHEET NO.
 PROJECT: COUNTY, STATE, DISTRICT, SHEET NO.

95% PLANS



BENTS 6 & 7 ELEVATION



BENTS 6 & 7
SIDE ELEVATION

- NOTES:
- See "Column Detail Type C" for dimensions not shown.
 - See Continuous Steel Plate Girder Unit Sheets for Superstructure dimensions not shown.
 - See "Interior Bent Nos. 6 & 7" Sheet for dimensions not shown.
 - 1 - Indicate Color/Finish. See "Aesthetic Detail" Sheet 3 of 9 for Colors/Finish Legend.

PRELIMINARY
 FOR REVIEW ONLY. NOT FOR
 PRESENTATION, RECORD, OR CONSTRUCTION.
 Prepared by or under the
 Direct Supervision of
 STEVEN J. WATSON, P.E. 100019
 7/10/2015

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 (Texas Registered Engineering Firm No. F-764)

Texas Department of Transportation

LOOP 82 UPPER OVERPASS
 AESTHETIC DETAILS

SHEET 3 OF 9

OWNER	DESIGNER	FEDERAL AID PROJECT NO.	TITLE
STATE	STP 1	1	LP 82
COUNTY	COUNTY	COUNTY	SHEET
CITY	CITY	CITY	
CHECK	TEXAS	AUS	HAYS
DATE	DATE	DATE	DATE
OVER	OVER	OVER	OVER
SCALE	SCALE	SCALE	SCALE



DESIGN SIA	FEDERAL AID PROJECT NO.	FEDERAL AID PROJECT NO.		STATE NO.
GRAPHICS UNIT	STATE	STP 1	1 RIG	LP NO.
CHECK UNIT	TEXAS	AUS	HAYS	SHEET NO.
CHECK	CONTROL	SECTION	JOB	378
	DATE	RD	033	



1	Colors: Custom color to match as-Cast (Prestek Panel Color) (Local Sherwin Williams #000356)
2	Fitzgerald Medium Sandblast Finish/liner with colors Custom color to match light sandblast panel color
3	Colors: Custom color to match brick veneer, Heritage Color Dove Gray
4	Colors: Park Color Canyon Dawn
5	Colors: Napaon-Pantone 804
6	Colors: Gold-Pantone 872
7	2" Stone Veneer, 1/2" 32, "Native Texas Limestone with Quartz Fossil, cream to Orange" by ASP Stone Supply or approved equal
A1	2" Stone Veneer, 1/2" 32, "Native Texas Limestone with Quartz Fossil, cream to Orange" by ASP Stone Supply or approved equal. At the Contractor's option, 4" Stone may be used on the retaining wall.
P2	Same as 2
P3	Same as 1
M1	Same as 2
M2	Same as 3
M3	Same as 4

The Contractor of the UPRR Overpass Project are modeled after the Texas State University Stadium North End Zone Expansion. The Contractor shall provide all materials and labor to install the panels. The Contractor shall provide small angle samples for approval and provide a mock-up sample of sufficient size for on-site review by the Engineer and Owner. The mock-up panel shall be no less than 10' x 10' and shall include all details of the panel, including, but not limited to, welding, fasteners, and connections. The Contractor shall construct the mock-up panel near the stadium as directed by the Engineer. The Engineer, in advance of date and time when the mock-up will be constructed, shall provide a written order to the Contractor. The Contractor shall perform the mock-up construction in an undisturbed condition as a standard for judging the completed work. The Contractor shall obtain approval of mock-up panel before construction of the remaining panels. The Contractor shall remove mock-up panels when directed.

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★ Texas Department of Transportation

AESTHETIC DETAILS

DESIGN		TELEPHONE	FEDERAL AID PROJECT NO.		HSR
DRAWING		NO.	STP	1	1
SHEET		STATE	DISTRICT	COUNTY	SHEET
CHECK		TEXAS	AUS	HAYS	
CHECK		CONTRACT	SECTION	408	381
CHECK		DATE	NO.	403	

TxDOT redesigned Loop 82 / I-35 Underpass

North wall of underpass



Design Considerations

Maximum Screen Height – limited to 15 feet per NESC requirements

Basic Concrete Wall used as mural – budgetary cost \$350,000
(includes fence removal, footing and installation of wall for 3 walls)

