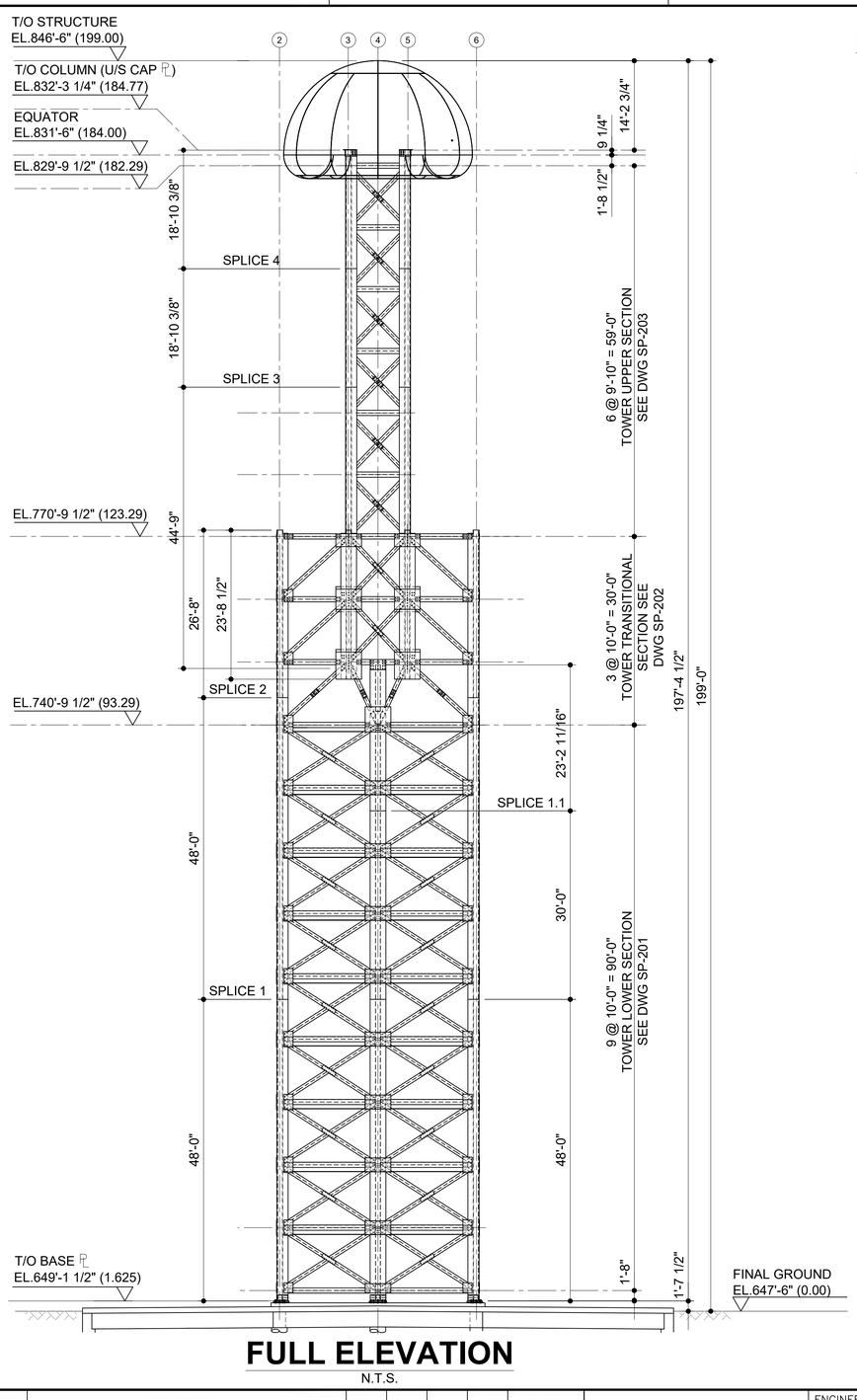

FULL ELEVATION

N.T.S.

LEGEND:

1. EL. XXX'-X" DENOTES ELEVATION ABOVE SEA LEVEL
2. EL. XXX.XX DENOTES TOWER CONSTRUCTION ELEVATION.

GENERAL NOTES:

1. PROJECT LOCATION:
   - TEXZON RESEARCH AND DEVELOPMENT FACILITY; ITALY, TX

2. DESIGN SPECIFICATIONS AND CODES
   - INTERNATIONAL BUILDING CODE
   - ASCE 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   - ASCE PRE-STANDARD FOR LRF DESIGN OF PULTRUDED FRP STRUCTURES; NOVEMBER 9, 2010
   - DESIGN MANUAL; 2007 STRONGWELL CORPORATION

3. LOADS
   3.1 ENVIRONMENTAL LOADS

   3.1.1 WIND LOAD AS DETERMINED PER CHAPTER 27 DIRECTIONAL PROCEDURE FOR MWFRS
   - BASIC WIND SPEED - 115 mph
   - WIND DIRECTIONALITY FACTOR - 0.85
   - EXPOSURE CATEGORY - C
   - ENCLOSURE CLASSIFICATION LOWER TOWER - ENCLOSED
   - ENCLOSURE CLASSIFICATION UPPER TOWER - OPEN
   - GUST EFFECT FACTOR - 0.85

   3.1.2 SEISMIC LOADS
   - MAPPED SPECTRAL ACCELERATION, S1 - 0.048
   - MAPPED SPECTRAL ACCELERATION, SS - 0.084
   - SITE CLASS - C
   - IMPORTANCE FACTOR, IE - 1.0

   3.2 LIVE LOADS
   - LANDING LIVE LOAD - 50 psf
   - WINCH LOAD - 10,000 lbs

4. MATERIALS
   4.1 COLUMN SECTIONS
   - GEOMETRY AND MATERIAL PROPERTIES AS PER STRONGWELL DRAWINGS NO. TM3311-00102, TM3314-00101, TM3318-00101
   - PLANAR SHEAR STRENGTH 7,250 psi

   4.2 STANDARD W SECTIONS - REQUIRED MINIMUM MATERIAL PROPERTIES:
   - MATERIAL PROPERTIES SAME AS ITEM 4.1.

   4.3 STANDARD I SECTIONS
   - MATERIAL PROPERTIES SAME AS EXTREN 625

   4.4 CONNECTION GUSSET PLATES AND ANGLES
   - MATERIAL PROPERTIES SAME AS ITEM 4.1 EXCEPT
   - ½" THICK PLATES LW PIN BEARING STRENGTH 30,000 psi
   - ¾" AND THICKER PLATES LW AND CW PIN BEARING STRENGTH 20,000 psi

   4.5 FIBERGLASS STUDS AND NUTS (THREADED ROD) AS PER SECTION 11 OF STRONGWELL DESIGN MANUAL.
   - ALL HOLES IN COLUMNS AND W10 ARE 1 1/16" DIAMETER U.N.O.
   - ALL HOLES IN W8, I18 AND I12 ARE 1 1/8" DIAMETER U.N.O.
   - ALL HOLES IN PLATES AND ANGLES ARE 1 1/8" DIAMETER U.N.O.

   4.6 EPOXY VINYL ESTER RESIN HETRON D 1222 WITH A HEAT DISTORTION TEMPERATURE OF 286°F.

   4.7 STEEL
   - BASE ANCHORAGE: STAINLESS STEEL GRADE 316 ANNEALED
   - TOP CONNECTION ASSEMBLY: CARBON STEEL A36

   4.8 ADHESIVE - URETHANE ADHESIVE SYSTEM PLIOGRIP 7770

5. INSTALLATION
   5.1 JOINT PREPARATION, APPLICATION AND CURE OF ADHESIVE, BOLT TORQUE - SEE INSTALLATION DRAWINGS SET
   5.2 ASSEMBLY AND CONSTRUCTION - SEE INSTALLATION DRAWINGS SET

6. FABRICATION AND TOLERANCES
   - LENGTH CUT +/- 1/8"
   - END CUT +/- 1°
   - HOLE LOCATION +/- 1/16"
   - HOLE DIAMETER +/- 1/32"

7. BOLT HOLE DIAMETER
   - ALL HOLES IN CORNER COLUMN, INTERMEDIATE COLUMNS, W10s, CORNER ANGLES AND 15/16" FLANGE PLATES TO BE 1 1/16" DIAMETER U.N.O.
   - ALL HOLES IN REMAINING PARTS TO BE 1 1/8" DIAMETER U.N.O.

REV	DESCRIPTION	DES	DWN	CHK	APPD	DATE
X	REVISED TAGS	WP	RN	WP	WP	2018.04.16
W	REVISED AS NOTED & REVISED TAGS	WP	RN	WP	WP	2018.02.09
V	REVISED AS NOTED & REVISED TAGS	WP	RN	WP	WP	2018.01.03
U	REVISED AS NOTED	WP	RN	WP	WP	2017.11.22
T	REVISED AS NOTED	WP	RN	WP	WP	2017.10.13
S	REVISED AS NOTED	WP	RN	WP	WP	2017.09.18

ISSUE FOR REVIEW
NOT FOR CONSTRUCTION

Seal

ENGINEERING CONSULTANT:
GHD ENGINEERING GROUP, INC.
Job. No. 11124808 File No. AA–NNN.N
GHD TEXAS FIRM REGISTRATION NO. 6558

EPC CONTRACTOR:
LANDMARK ENERGY SERVICES

OWNER:
ViZiV TECHNOLOGIES

PROJECT:
VIZIV GDP - TRANSMISSION TOWER

TITLE:
SUPERSTRUCTURE
FRP TOWER GENERAL NOTES
AND FULL ELEVATION

CONFIDENTIAL

DWG. NUMBER
SP-102

REVISION
X

SHEET SCALE: 0" 1"

Rnadon at 5/22/2018 9:41 AM

T:\Chicago Drawings\Texzon GDP – TOWER PLAN AND ELEV.dwg

SHEET FORMAT: ANSI D (34x22in)