

SUTRO TOWER

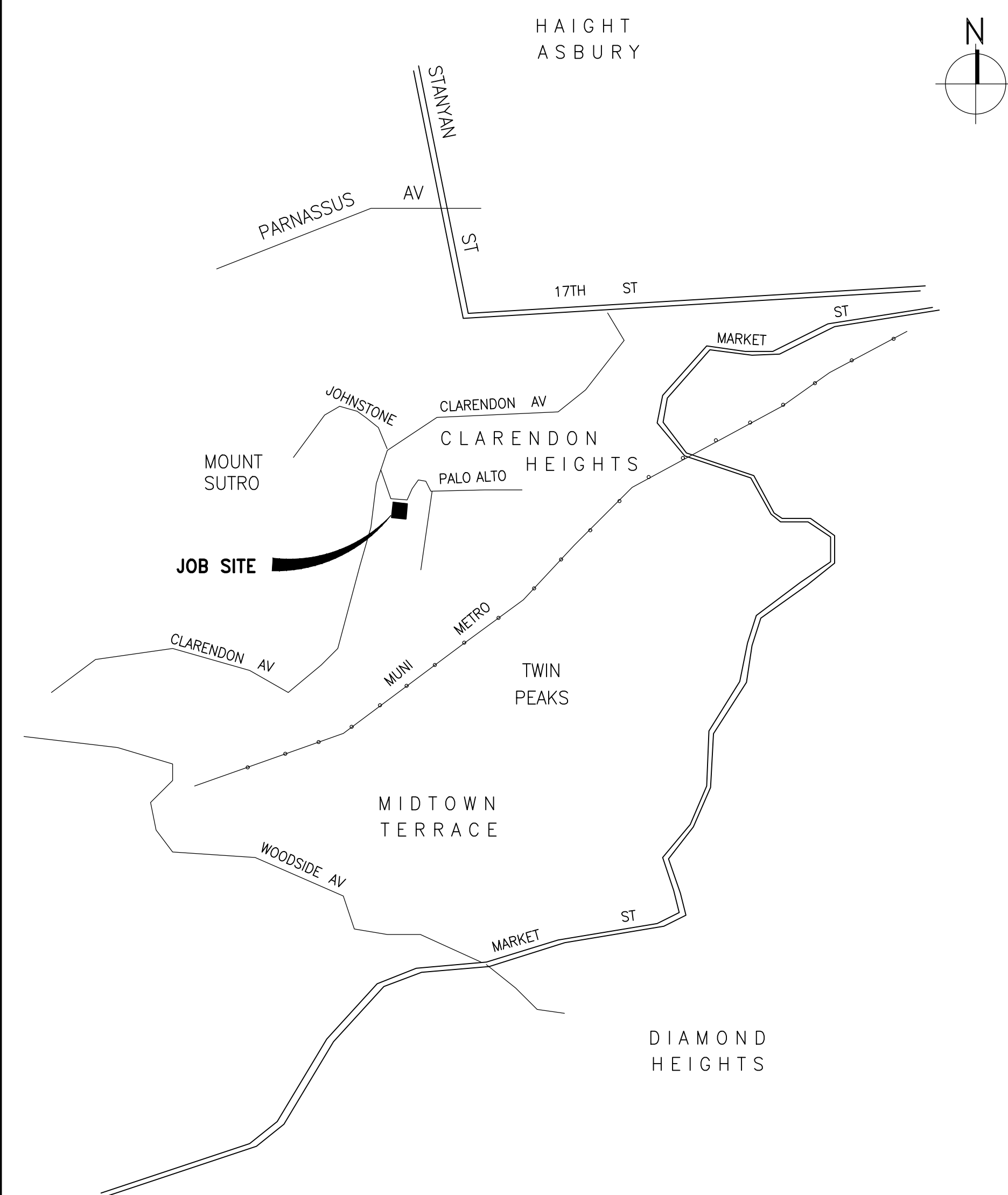
1 LA AVANZADA STREET

SAN FRANCISCO, CALIFORNIA

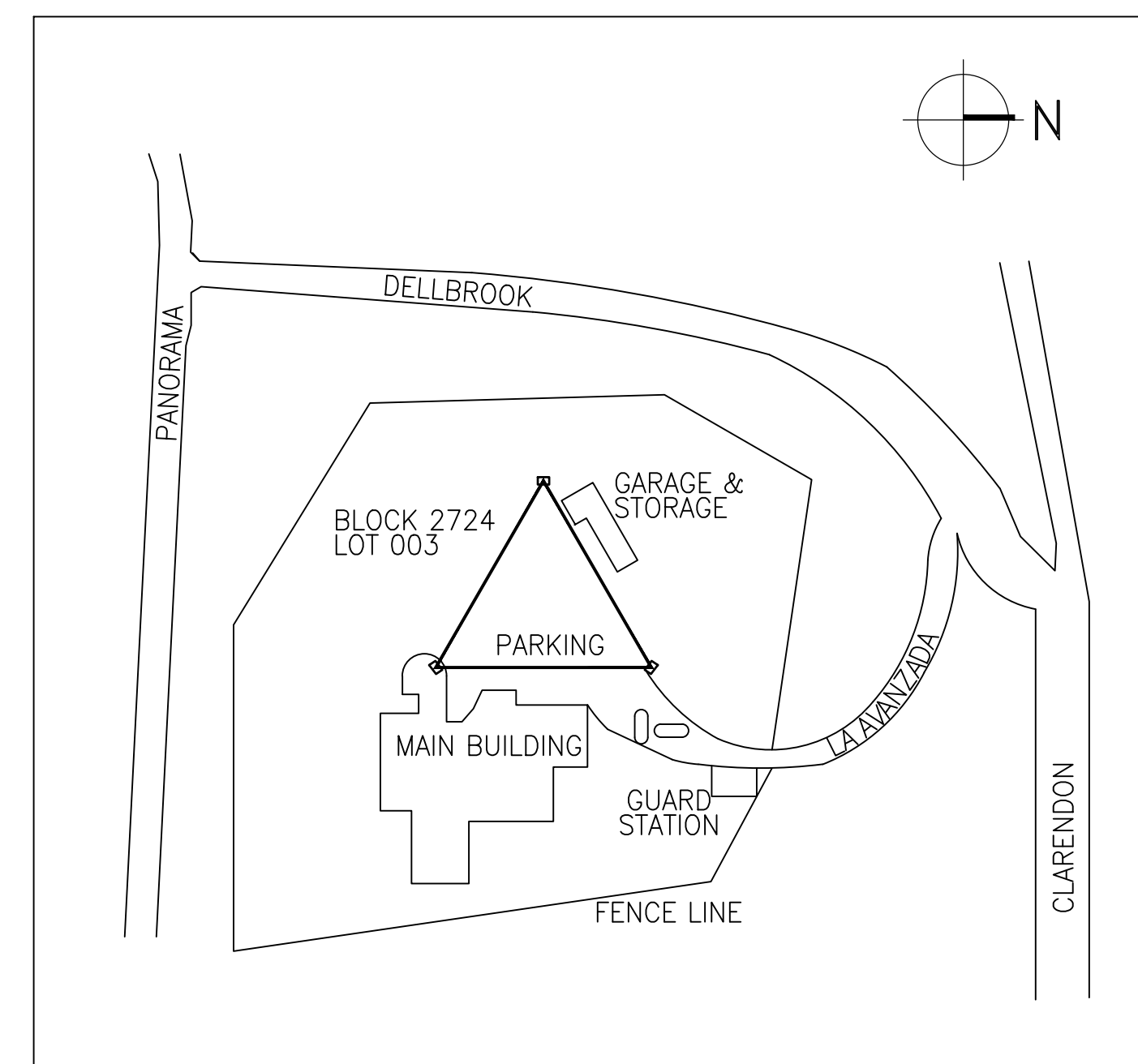
CLADDING MODIFICATION

Consultant

VICINITY MAP



SITE MAP



LIST OF DRAWINGS

- S0.0 TITLE SHEET, VICINITY MAP & LIST OF DRAWINGS
- S0.1 PERSPECTIVE
- S0.2 GENERAL NOTES AND ABBREVIATIONS
- S1.0 TOWER REFERENCE PLAN, ELEVATION, & SECTIONS

SCOPE OF WORK

- VOLUNTARY UPGRADE OF THE TOWER CLADDING WIND RESISTANCE THROUGH:
 - REMOVAL OF CLADDING IN TOWER LEGS
 - REPLACEMENT OF CLADDING ON INTERIOR FACES OF HORIZONTAL LEVELS 2, 3 AND 4
- REPAINT STRUCTURE IN AVIATION WHITE AND RED TO PRESERVE HISTORIC CONTEXT

No.	Date	Description	By
1/7/2019		PERMIT SUBMITTAL	ROH

**SUTRO TOWER
 CLADDING MODIFICATION
 1 LA AVANZADA ST.
 SAN FRANCISCO
 CALIFORNIA**

**TITLE SHEET
 VICINITY MAP
 &
 LIST OF DRAWINGS**

Commission 067199.22	Checked	Date 07/12/2018
Drawn GPN	Approved	Scale AS NOTED

Professional Engineer Seal: **ROBERT D. HAMBERGER**, No. 2951, Structural, State of California.

Drawing No. **S0.0**

Consultant



CURRENT



AS MODIFIED

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1/7/2019		PERMIT SUBMITTAL	ROH

**SUTRO TOWER
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1 LA AVANZADA ST.
SAN FRANCISCO
CALIFORNIA**

Project

PERSPECTIVE

Drawing Title

Commission 067199.22	Checked	Date 07/12/2018
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Drawing No.
S0.1

Seal

COATING APPLICATION

- Prepare the substrate for coating application with a combination of hand tools and power washing to remove chalk, dirt, surface corrosion, biological contaminants, and poorly bonded coatings, and to provide a roughened surface for new coating adhesion.
- Spot prime coat: All cleaned to bare-metal surfaces shall receive one spot prime coat of Tnemec Series 118 Uni-Bond Mastic, a rust-inhibitive elastomeric coating, with a minimum solids by volume of 55% and VOC of 31 grams/litre or less, color 30GR (gray) @ 6-7 mils DFT. Overlap a minimum 3" onto surrounding intact existing coatings.
- Stripe-Coat: All leading edges of cleaned nut & bolt assemblies, weld seams, rivets or similar connection points shall receive a "strip-coat" of Tnemec Series 118 Uni-Bond Mastic, contrasting color, to prime and intermediate coat, applied by brush at 3.0-4.0 mils dft.
- Full Intermediate Coat: One full coat of Tnemec Series 118 Uni-Bond Mastic in color 1281 (off white) @ 6-7 mils DFT on all exterior surfaces scheduled for coating.
- Full Finish Coat: One full finish coat of Tnemec Series V1071 Fluoronor, a thermoset fluoropolymer resin finish coat, with a minimum solids by volume of 56% and VOC of 97 grams/litre or less thinned 10%, (color selected by Owner) @ 2.5-3.0 mils DFT per-coat, on all exterior surfaces scheduled for coating.
- Color shall be aviation white and red to match existing vertical striping pattern.
- Submit color samples to Owner prior to painting.

GENERAL

- General notes and typical details apply to all structural features, unless otherwise indicated.
- If certain features are not fully shown or called out on the drawings or in the specifications, their construction shall be of the same character as for similar conditions.
- Dimensions shall not be scaled off of the drawings.
- All work shall conform to minimum standards of the 2016 California Building Code, of any codes listed in the drawings or specifications and of any regulating agencies which have authority over any portion of the work, including the State of California Division of Industrial Safety.
- Openings, pockets, etc. shall not be placed in structural members unless specifically detailed on the structural drawings. Notify the structural engineer when work requires openings, pockets, etc. in structural members not shown on the structural drawings.
- The contractor shall be responsible for coordinating the work of all trades and shall check all dimensions and holes and openings required in structural members. All discrepancies shall be called to the attention of the structural engineer and shall be resolved before proceeding with the work.
- The contract documents represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect life and property during construction. Such measures shall include, but are not limited to, bracing and shoring for loads due to construction equipment and materials. Observation visits to the site by the structural engineer shall not include inspection of the above items.
- Construction materials shall be spread out if placed on framed floors or roofs. Load shall not exceed the design live load per square foot. Provide adequate shoring where overload is anticipated.
- The contractor shall use extreme caution to protect all conduits, pipes, ducts, architectural finishes and utilities not indicated as being removed from damage during construction and shall restore all damaged or otherwise affected elements to their preconstruction condition, unless otherwise noted.
- The Sutro Tower transmission facilities must remain in operation at all times during the construction period. Contractor shall submit a written work plan indicating the proposed sequence and schedule of work and specific operations to be conducted, to Sutro Tower for review, prior to performing any work on site. The work plan shall be revised and resubmitted on a weekly basis to alert Sutro Tower as to the progress of work accomplished to date and current schedule for performing additional work.
- Sutro Tower is a radio transmission facility and emits high energy radio waves. The contractor shall be responsible for determining and implementing appropriate protective measures for personnel working on site.
- The contractor shall maintain a fire watch and employ necessary protective measures when welding or thermally cutting near flammable materials.
- The removal, cutting, drilling, etc. of existing work shall be performed with care in order not to jeopardize the structural integrity of the structure. If structural members or mechanical, electrical or architectural features not indicated for removal interferes with the new work, the Engineer shall be notified immediately and prior approval shall be obtained before removal of members.
- The contractor shall promptly repair any damage caused during operations, using materials and workmanship similar to that which was damaged.
- All removed items, materials and debris, unless otherwise noted, shall be removed promptly from the site and disposed of in a legal manner.

STRUCTURAL STEEL & MISC. METALS

- Fabrication and erection of structural steel shall be in accordance with the "Code of Standard Practice for Steel Buildings and Bridges" AISC 303-16.
- Materials:
 - A. Plates: ASTM A572 grade 50 u.o.n.
 - B. Structural steel tubes: ASTM A500 grade B (fy = 46 ksi)
 - C. Structural steel pipes: ASTM A53 grade B (fy = 35 ksi)
 - D. Channel and angles: ASTM A572 grade 50
 - E. Wide flange: ASTM A992
- All structural steel, miscellaneous metal and connectors exposed to weather shall be hot-dip galvanized after fabrication.

STEEL SIDING

- Steel siding shall be type HSN 3-20 gauge as manufactured by Vercor with G90 galvanized finish conforming to ASTM A652, minimum moment of inertia 0.889 in4 per 12 inch width of deck, minimum section modulus of .452 in3 per 12 inch width of deck, or approved equal.
- Attach siding to supporting steel with stainless steel #12 self-tapping screws, at 12 inches o.c. minimum 3, per nominal 32 inch wide deck unit.
- Prior to purchase, submit shop drawings and data indicating, materials, profile, surface treatment, individual sheet size, layout and fastening.

DEMOLITION

- Prior to performing demolition, submit a demolition plan, sealed by a California-licensed civil or structural engineer indicating sequence of work to be performed, anticipated schedule, necessary rigging equipment and means of attachment to the tower, methods of removal and lowering existing materials to be demolished, and removing them from the site.
- Provide temporary support for all utilities and appurtenances that must be loosened, to permit removal of existing siding. Reattach utilities and appurtenances in same manner as installed prior to siding removal. If conditions do not permit this, notify structural engineer.

SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATION

- Special inspection is not required.
- Structural engineer shall periodically observe:
 - a. Condition of steel exposed as existing siding is removed.
 - b. Materials, fasteners and installation of new siding.

ABBREVIATIONS

&	And	JST.	Joist
@	At		
A.B.	Anchor bolt	K	Kips
ADD'L	Additional	KSI	Kips per Square Inch
AISC	American Institute of Steel Construction	LBS.	Pounds
ALT.	Alternate	LL	Live Load
ARCH.	Architect	L.L.H.	Long Leg Horizontal
ASD	Allowable Strength Design	L.L.V.	Long Leg Vertical
ASTM	American Society for Testing and Materials	LWT	Lightweight
A.W.P.A.	American Wood Preservers Assoc.	L.V.L.	Laminated Veneer Lumber
AWS	American Welding Society	MAX.	Maximum
		M.B.	Machine Bolt
BLKG.	Blocking	MECH.	Mechanical
BM.	Beam	MFR.	Manufacturer
B.N.	Boundary Nail	M.I.	Malleable Iron
BOCA	Building Officials and Code Administrators International, Inc.	ML.	Millimeter
		MIN.	Minimum
		MISC.	Miscellaneous
BOTT.	Bottom	(N)	New
BRG.	Bearing	NO.#	Number
B.S.	Both Sides	N.S.	Near Side
BTWN.	Between	N.T.S.	Not to Scale
		NWT	Normalweight
CBC	California Building Code	O.C.	On Center
C.C.	Center to Center	O.D.	Outside Diameter
CCR	California Code of Regulations	O.H.	Opposite Hand
C.J.	Control Joint	OPNG.	Opening
C.I.P.	Cast-in-place	OPP.	Opposite
C.L.	Center Line	OSHPD	Office of Statewide Health Planning and Development
CLG.	Ceiling		
CLR.	Clear	P.A.F.	Powder-Actuated Fasteners
CMU	Concrete Masonry Unit	PART.	Partial
COL.	Column	PCF	Pounds per Cubic Foot
CONC.	Concrete	PL	Plate
CONN.	Connection	PLY.	Plywood
CONT.	Continuous	P.P.	Partial Penetration
C.P.	Complete Penetration	PSF	Pounds per Square Foot
CSK	Countersink	PSI	Pounds per Square Inch
CTBR.	Counterbore	PWJ	Plywood Web Joists
CTR.	Center		
DBA	Deformed Bar Anchor	RAD.	Radius
DBL	Double	R.D.	Roof Drain
DC	Demand Critical (Weld)	REINF.	Reinforcing
DET., DETL.	Detail	REQ.	Required
DF	Douglas Fir	RF.	Roof
DIAM.#	Diameter	R.O.	Rough Opening
DIAG.	Diagonal	RND.	Round
DL	Dead Load	R.R.	Remove & Replace
DN	Down		
DO	Ditto	S.A.D.	See Architectural Drawings
DSA	Division of the State Architect	SCHED.	Schedule
DWG(S).	Drawing(s)	SFRS	Seismic Force-Resisting System
(E)	Existing	SHT.	Sheet
EA.	Each	SHTG.	Sheathing
E.F.	Each Face	SHM.	Similar
E.J.	Expansion Joint	S.M.D.	See Mechanical Drawings
ELEV., EL.	Elevation	S.O.G.	Slab on Grade
EMB., EMBED.	Embedment	S.P.	Southern Pine
E.N.	Edge Nail	SSTL.	Stainless Steel
EQ.	Equal	STAGG'D.	Staggered
EQUIP.	Equipment	STD.	Standard
E.W.	Each Way	STIFF.	Stiffener
FDN.	Foundation	STL.	Steel
F.F.	Finish Floor	STRUCT.	Structural
F.G.	Finish Grade	SYMM., SYM	Symmetrical
FIN.	Finish	T&B	Top and Bottom
F.O.C.	Face of Concrete	T&G	Tongue & Groove
F.O.M.	Face of Masonry	T.N.	Toe Nail
F.O.S.	Face of Stud	T.O.C.	Top of Concrete
FRMG.	Framing	T.O.S.	Top of Steel
F.S.	Far Side	T.O.W.	Top of Wall
FTG.	Footing	TS	Tube Steel
GA	Gage	TYP.	Typical
GALV.	Galvanized	UBC	Uniform Building Code
G.L.	Grid Line	U.O.N.	Unless Otherwise Noted
GLB	Glue-Laminated Beam		
GR.	Grade	VERT.	Vertical
HDG.	Hot-dip Galvanized	V.I.F., ±	Verify in Field
HGR.	Hanger	W/	With
HK.	Hook	W/O	Without
HORIZ.	Horizontal	WCLB	West Coast Lumber Inspection Bureau
H.S.B.	High Strength Bolt	W.P.	Working Point
HSS	Hollow Structural Sections	W.H.S.	Welded Headed Stud
HT.	Height	W.T.S.	Welded Threaded Stud
ICBO	International Council of Building Officials	W.W.F.	Welded Wire Fabric
ICC	International Code Council	WWPA	Western Wood Products Association
INT.	Interior		
INV.	Inverted		

GENERAL SYMBOLS AND LEGEND

	REVISION
	GRIDLINE INDICATING CENTERLINE OF CONCRETE OR PLYWOOD SHEAR WALL
	TYPICAL GRIDLINE INDICATING FACE OF CONCRETE WALL
	BUILDING SECTION OR ELEVATION
	WORK POINT, DATUM OR CONTROL POINT, FIN. FLR. ELEVATION, S.A.D.
	DETAIL REFERENCE
	PROJECT NORTH, S.A.D. FOR TRUE NORTH

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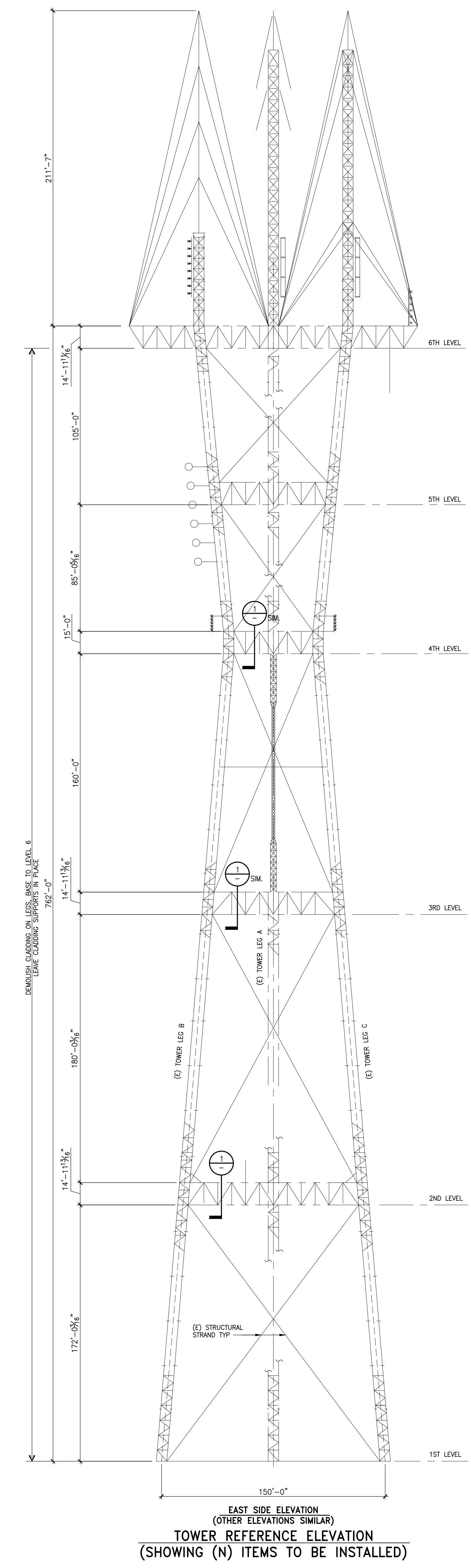
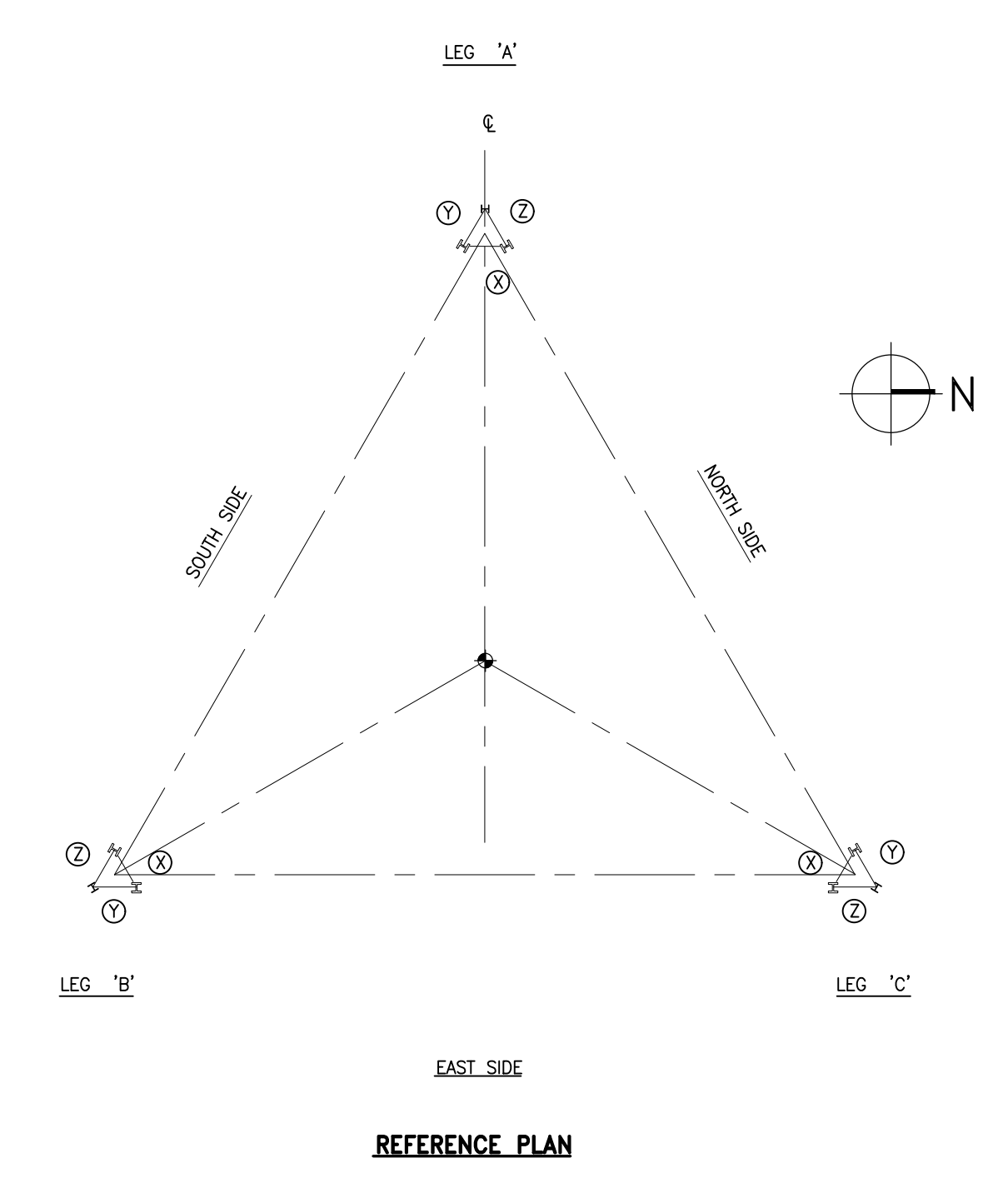
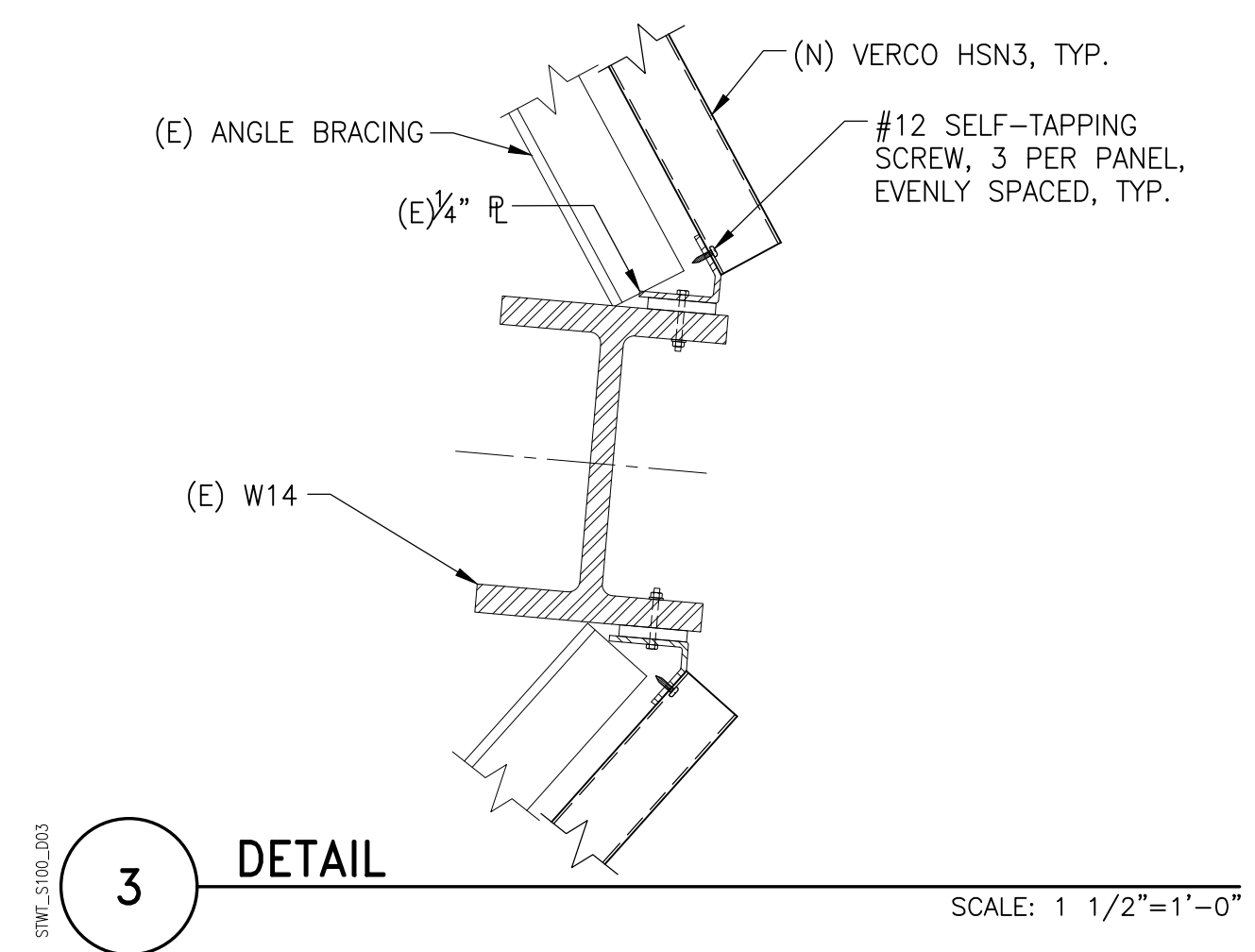
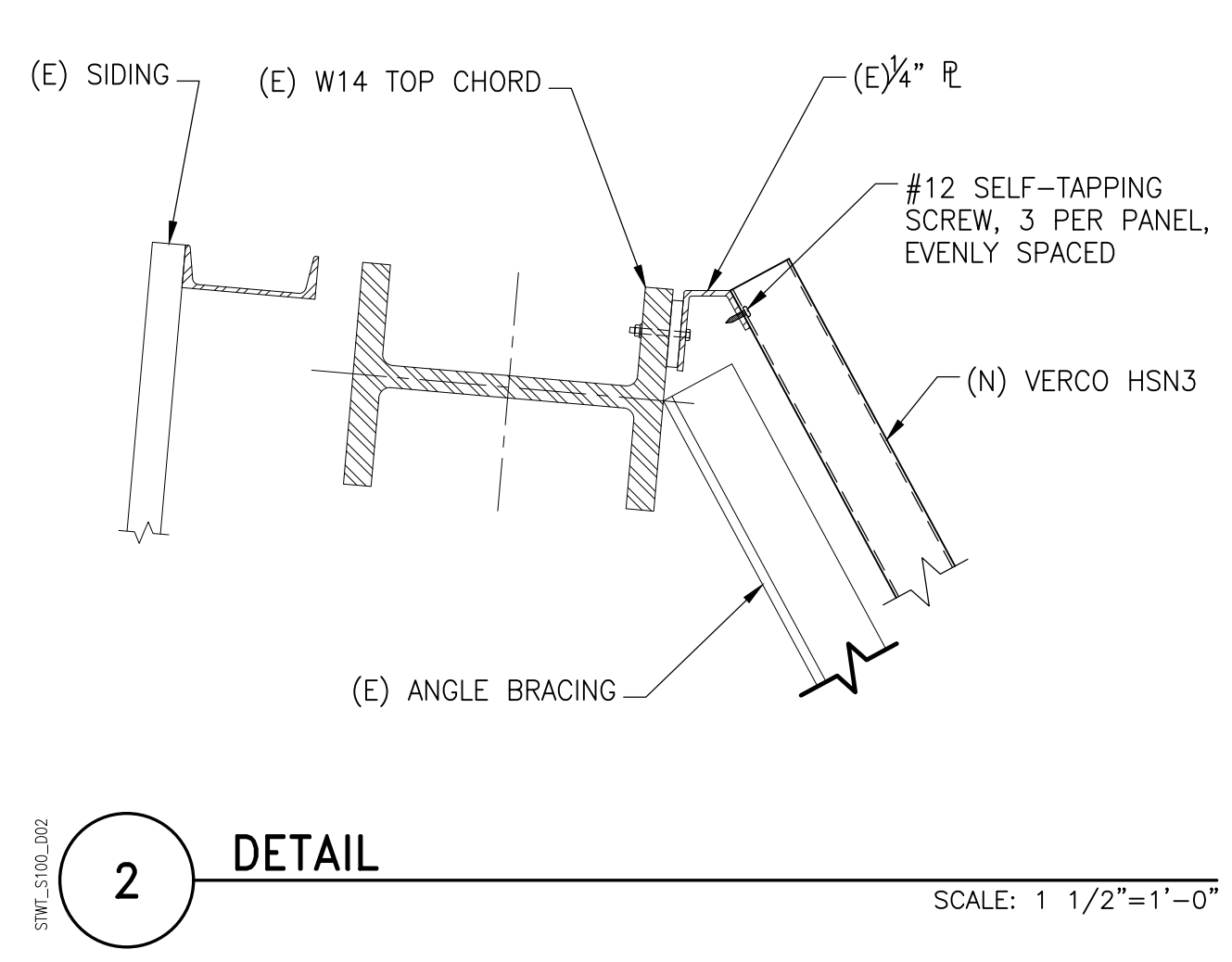
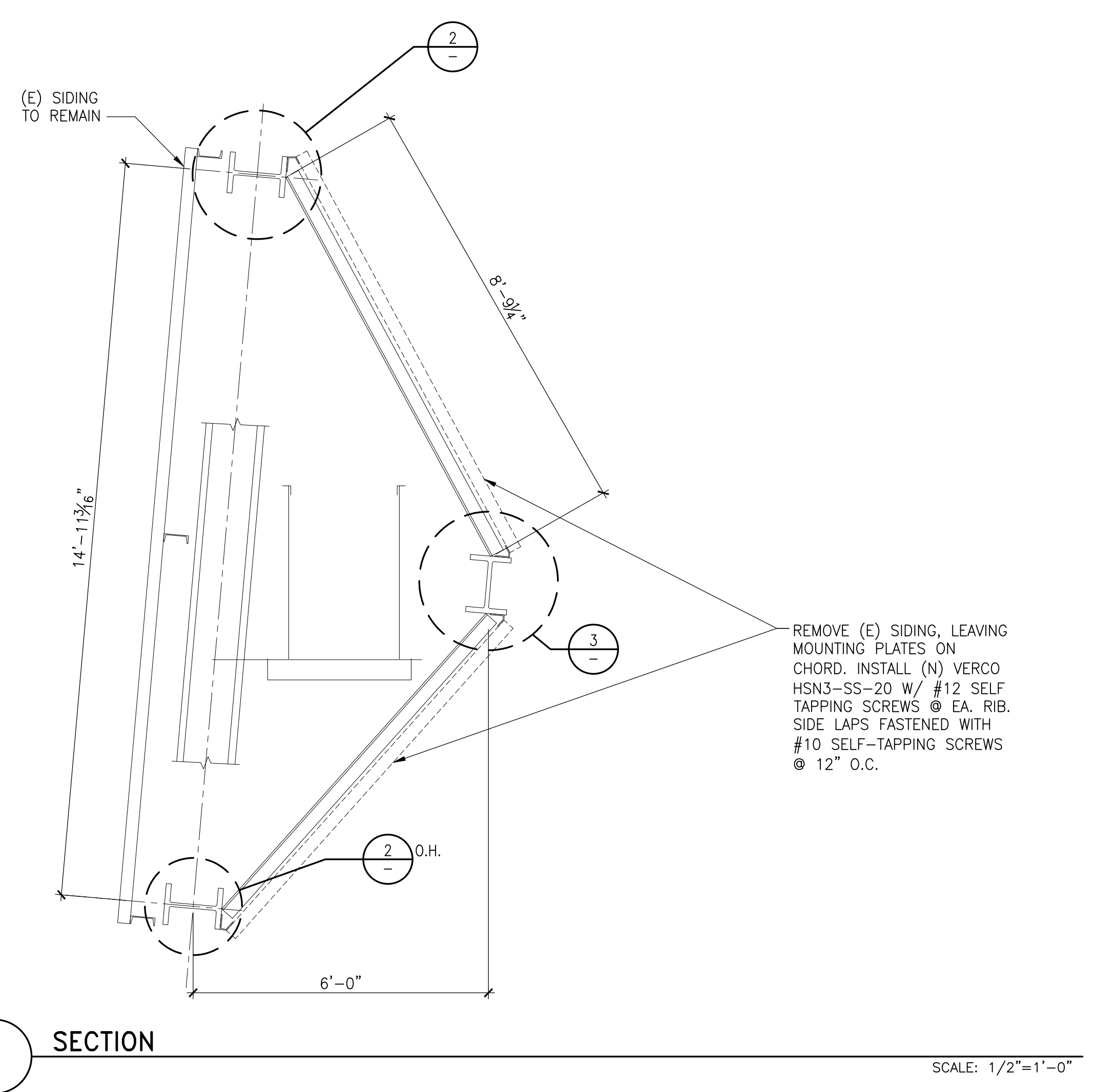
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1 LA AVANZADA ST. SAN FRANCISCO CALIFORNIA

GENERAL NOTES & ABBREVIATIONS

Commission 067199.22	Checked Approved	Date 07/12/2018
Drawn GPN	Scale AS NOTED	Drawing No. S0.2

Professional Engineer Seal: RICHARD D. HAMBERGER, No. 2951, Structural, State of California

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**SUTRO TOWER
 CLADDING MODIFICATION
 1 LA AVANZADA ST.
 SAN FRANCISCO
 CALIFORNIA**

Project

**TOWER REFERENCE
 PLAN
 ELEVATION &
 SECTIONS**

Drawing Title

Commission 067199.22	Checked Approved	Date 07/12/2018
Drawn GPN	Scale N.T.S.	

Professional Engineer Seal for Ronald O. Hamburger, No. 2951, State of California. Drawing No. **S1.0**