

43 - SADDLEBACK						PHONE 714-973-1637		PHONE 714-973-5680		JESSICA LOW	
PROJECT NO. / SERVICE REQUEST 1893087 / 1932297						MOR NO. N/A		PRODUCT- N/TA---RULE 20B (UG INSTALL)		ASSOC. DESIGN 1215884	
CIRCUIT / VOLTAGE ACATIE 12KV						GPS ---		PRODUCT-2-		ASSOC. DESIGN 1395250	
CRDUT OR SUB MORRO SUB / B1 & B2						CIRCUIT CODE 00115		PRODUCT-3-		ASSOC. DESIGN	
INVENTORY MAP (SEE ABOVE)						J.P.A. NO. N/A		PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST -- WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
F	10/18/12	SLS	EZJ	JLW		52680					
P	7/15/12	--	EZJ	JLW		52680					
B	5/22/20	--	S. GOUISA	TJ/TJ/OUES		52823					
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN/DRWG NO.				
Southern California Edison Company						1	of 20	1218843_2.01			



NOTE(S):  
1. SEE GI 030  
2. SEE CD 142

DES: Rev. 06/08/20

[illegible]

1. APPROVED RISER BENDS ARE SHOWN ON FOLLOWING TABLE:

MATERIAL	SIZE							
	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
FIBERGLASS	-	-	-	-	X	X	X	X
HDC	X	X	X	X	X	X	X	X

NOTE: 6" HDG OR FIBERGLASS RISER BEND SHALL BE USED WHEN SPECIFIED ON THE WORKING DRAWING. SEE UGS AC 702 FOR GROUNDING HDG RISER BENDS.

2. THE TOP AND BOTTOM OF 4", 4' 5", 5" OR 6" BERGGRASS BANS ARE FURNISHED WITH PERMANENTLY ATTACHED PVC COUPLINGS. ALSO INCLUDED IS A 6" LONG 3", 4", 5" OR 6" SCHEDULE 80 PVC STUB-OUT. SOLVENT WELDED INTO PLACE. THE STUB-OUT IS TO BE USED FOR THE BERGGRASS BANS TO BE MATED TO THE MAINLINE AND SUPPORTS.
3. TWO GROUND RODS ARE REQUIRED AT EACH PRIMARY REBAR POSITION. DRIVE RODS IN TRENCH BOTTOM WITH A MINIMUM SEPARATION IN UNDISTURBED EARTH. LEAVE THE ROD TOPS 3" ABOVE THE TRENCH BOTTOM AND ATTACH CONTINUOUS GROUND RIBBON WITH JOINTS EXPOSED TO UNLOCATED LOCATION ON POLE AND STUB UP TO 18" ABOVE THE TRENCH BOTTOM. ALL GROUNDING TO BE FURNISHED BY THE CONTRACTOR. SEE USAS AC 703 FOR APPROVED GROUNDING MATERIALS.
4. ENCASUREMENT REQUIRED ONLY WHEN CALLED OUT ON WORKING DRAWINGS.
5. GROUNDING SHALL BE SUBSTITUTED FOR BERGGRASS BANS FOR STRAIGHT RUNS OF 150' OR LESS IN COUNTRY SIZES 4" AND UNDER.

NOTE(S):

1. THE RISER BEND IS AVAILABLE IN THREE, FOUR, FIVE OR SIX-INCH SIZES. THE MAIN BODY OF THE BEND IS MANUFACTURED FROM FIBERGLASS MATERIAL AND IS MEDIUM GRAY IN COLOR.
2. THE TOP PORTION OF RISER IS FURNISHED WITH PVC COUPLINGS PERMANENTLY EPOXY BONDED TO THE FIBERGLASS BEND.
3. A SCHEDULE 80 PVC SIX-INCH LONG STUB-OUT IS SOLVENT WELDED INTO THE TOP PVC COUPLING.
4. THE TOP SCHEDULE 80 PVC STUB OUT OF THE BEND IS STENOLED "TOP", AND BOTTOM OF BEND IS STENOLED "UNDERGROUND".
5. \* MANUFACTURE MONTH AND DATE (MONTH AND YEAR) WILL BE STENOLED ON THE CENTER OF THE RISER BEND.
6. THE TOP SCHEDULE 80 PVC STUB OUT WILL BE PLACED THREE INCHES ABOVE FINAL GRADE. NO PORTION OF THE FIBERGLASS MATERIAL OF THE BEND WILL BE EXPOSED ABOVE THE FINISH GRADE.
7. THE APPROVED MANUFACTURERS AND SUPPLIERS ARE:
  - A. MANUFACTURERS: FRED CONDUIT, SMITH PRODUCT COMPANY, AND CHAMPION FIBERGLASS, INC.
  - B. SUPPLIERS:
    - \* ONE TIME UTILITY  
501 GARFIELD STREET  
SANTA ANA, CA 92701
    - \* CAL-DUCT, INC.  
2932 LEE AVENUE  
SOUTH EL MONTE, CA 91733
    - \* SBF-T-60 SUPPLY, INC.  
1300 E. NORMANDY PLACE  
SANTA ANA, CA 92705

D39: Rev. 10/26/20

Side View

Plan View

UniStrut riser supports should be installed a maximum of 5' apart, above the 5' level.

Pipe Clamps

3-1/4"

5/8" Double Arm Bolt

3-1/4"

Precut Predrilled 15" UniStrut M/C 132-00746

The drawing consists of two views: a side view and a plan view. The side view shows a vertical pipe with a UniStrut riser support attached. The support is a horizontal bar with a pipe clamp on the left and a 5/8" double arm bolt on the right. The distance between the pipe and the bolt is labeled as 3-1/4". The plan view shows the top of the pipe with two circular holes representing the bolt locations. The distance between these holes is also labeled as 3-1/4". A note at the bottom right specifies the UniStrut part as 'Precut Predrilled 15" UniStrut M/C 132-00746'. A general note at the top left states: 'UniStrut riser supports should be installed a maximum of 5' apart, above the 5' level.'

### CONVENTIONAL RISER INSTALLATION

NOT TO SCALE

NOTE(S):

1. All notes pertaining to Figure CR 110-1.1 (Sheet 1) construction on scope CR 110.1 also apply to risers supported by a unistrut.

- 1.0 APPLICATION  
The unistrut shown in Figure CR 110-5 (Sheet 3) is the preferred method where multiple risers are required.
- 2.0 MATERIAL

TABLE CR 110-2: Unistrut Pipe Clamps

Conduit Size (in)	Material Code
1	622-04052
2	133-48248
2.5	133-48214
3	133-00025
4	133-00017
5	133-48008
6	132-00746

REF.: DUG CR 110.2  
D38: REV. 02/18/11

**SECTION A-A**

1/2" x 2-1/2" PENTA HEAD BOLTS  
REQUIRED ON ALL COVERS

COVER SHALL BE  
FAIRWAY OR LIGHT  
TRAFFIC AS SPECIFIED

A 5/8"x 8"  
CORRUGATED STEEL  
GROUND ROD, WHEN  
REQUIRED, IS FURNISHED &  
INSTALLED BY CONTRACTOR.

TYPE OF JOINT  
MAY VARY WITH  
MANUFACTURER.  
REF. UCS HP 225

1" DIA. GROUND ROD  
KNOCKOUT HOLE

STANDARD INSIDE  
HEADROOM UNLESS  
OTHERWISE SPECIFIED:  
3'X5'x4"

6" DIA. SUMP

PLACE BOX ON 6" (MIN.)  
COMPACTED BASE OF 3/4"  
CRUSHED ROCK

NON-SKID COVER SEE NOTE 4

WALL

#4 DOWEL BAR WELDED TO FRAME

COVER

PULL IRON OR 1" THREADED  
INSERT (2 REQ'D)

8" X 14" DEEP RECESS  
2 EACH SIDE

**SECTION B-B**

FRAME AND COVER  
SEE NOTE 4

26" X 26" X 12"  
DEEP RECESS EACH END

NOTES:

NOTE(S):

1. **REINFORCEMENT:**
  - H20-S BRIDGE LOADING.
2. **CONCRETE:**
  - CONCRETE SHALL BE CLASS "A" WITH 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI (MINIMUM). SLIGHT TAPER (1" IN DEPTH OF PULL BOX) AND 1" CHAMFER ON ALL INSIDE CORNERS PERMITTED FOR EASE OF FORMING.
3. **INSTALLATION**
  - PULL BOX SHALL BE PLACED ON 6" (MINIMUM) COMPACTED ROCK OR SAND BASE TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE IN FLOOR. MINIMUM EXCAVATION FOR PULL BOX SHALL BE 52" X 97" X DEPTH TO SUIT JOB.
4. **COVERS:**
  - SEE FC 612 AND FC 618 FOR PULL BOX COVERS.
5. **GRADE RINGS:**
  - INSTALLING CONTRACTOR SHALL PROVIDE GRADE RINGS (6" MINIMUM) AS NECESSARY IN ORDER TO MAINTAIN COVER OVER CONDUITS PER SPECIFICATIONS OR PERMIT AGENCY SPECIFICATIONS, WHICHEVER IS GREATER.
6. **PULL IRONS AND EYES:**
  - SEE AC 729 OR PULL IRONS AND AC 720 FOR PULL EYES.

053C: Rev. 02/12/21

## NOTES

1. SEE UGS HP 200 FOR DIMENSIONS OF VARIOUS SIZE HANDHOLES AVAILABLE.
2. RADIUS ANGLE MAY BE REDUCED TO LESS THAN 90° PROVIDING THE PROJECTED CENTER LINE OF THE CONDUIT CLEARS HANDHOLE OPENING.
3. TWO HOLD-DOWN DEVICES TO BE SUPPLIED WITH EACH HANDHOLE.
4. COVER SHALL BE IDENTIFIED WITH "EDISON" IN MINIMUM 2-INCH LETTERS OR LABELS PERMANENTLY SECURED TO THE LID.
5. FOR MAINTENANCE ON 10-1/2" X 17" CONCRETE HANDHOLES USE SWINGBOLT WITH SAP 10204721.

D75 REV. 03/18/19

Diagram illustrating the grounding of a vent pipe using two methods:

**Top Method (Vent Pipe Grounding):**

- VENT PIPE
- WASHER
- PENTA-HEAD BOLT
- #6 BC (Bare Copper) Cable
- INSIDE
- OUTSIDE
- 1 BOLT 1/2" PENTA HEAD
- 2 WASHERS 1/2"
- 2 NUTS 1/2"
- CONNECT TO LT GROUND
- Structure Ground Wire
- GROUND ROD

**Bottom Method (Vault Grounding):**

- #6 BC CONNECT TO VAULT GROUND

Additional labels for the bottom method include: INSIDE, OUTSIDE, and a dashed line indicating the structure boundary.

**NOTE**

TO ASSIST IN UNDERGROUND STRUCTURE LOCATING FROM THE SURFACE, INSTALL A #6 BARE COPPER WIRE FROM INSIDE THE VENT PIPE TO THE STRUCTURE GROUND SYSTEM. THIS INSTALLATION WILL ALLOW A SINGLE PERSON CREW TO TIE INTO THE SYSTEM GROUND AND LOCATE THE FACILITIES UNAIDED. THE INSTALLATION SHOULD BE MADE DURING NEW CONSTRUCTION, ADDED TO THE APPROPRIATE STRUCTURE DURING THE ROUTINE MAINTENANCE CYCLE, OR AS THE NEED ARISES BY REQUEST FOR ASSISTANCE FROM THE CONTRACT CABLE LOCATING COMPANY.

D37: REV. 10/26/20

DISTRICT 3 -- SADDLEBACK		PROJ. MGR. TODD PEARCE		PLANNER EDWARD ZIEMAN		DESIGNER JESSICA LOW	
PROJECT NO. SERVICE REQUEST		USER PHONE 714-973-5637		PHONE 714-973-5690			
1890387 2792297		N/A		163131--RULE 20B (UG INSTALL)		ASSOC. DESIGN 1218843	
CIRCUIT / VOLTAGE		GPS		PRODUCT--2		ASSOC. DESIGN 1395250	
PROJECT NO. 12V		N/A		184510--RULE 20B (OH REMOVAL)		ASSOC. DESIGN	
SUB J PG NO		CIRCUIT CODE		PRODUCT--3			
ACQ/STE SUB / B1 & B2		00115					
INVENTORY MAP (SEE ABOVE)		J.P.A. NO. N/A		PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST -- WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
P	10/18/22	SLS	EJZ	JLW	52690		
P	7/15/22	---	EJZ	JLW	52690		
B	5/22/20	---	S. GOMISA	TY/TJ/QUES	52823		
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX &	SHEET	DESIGN/DWG. NO.
Southern California Edison Company						1A OF 20	1218843_2.01



TD1631311  
CF: V5570537  
6'x12'x7'  
VAULT  
TUB STYLE  
CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S VAULT 6'x12'x7' TUB 2 PIECE UNIT  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F DE 100KVA 12KV 120/240 1P+  
SN: \_\_\_\_\_  
IN: 3 - JJ LB JUNG BAR 3WY W/3-LBE 1/0 200A 15KV  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
IN: 4 - JJ LB INS CAP 200A 15KV  
CF: 1381' - CM DUCT 5"  
CF: 613' - CM DUCT FOR EXCAVATION  
IN: 379' - CBL 1/0 AL 3-1/C 17KV CLP PJ  
CF: 5 - S HH CONC 17"x30"x24"  
CF: 5 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 2 - CNN BAR INS HVY DUTY 4/0-700 1P 6-WAY  
IN: 5 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 916' - CM DUCT 2 1/2" TO 4"  
CF: 494' - CM DUCT FOR EXCAVATION  
IN: 542' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX  
IN: 296' - CBL (2) 700, (1) 350 600V CLP PLEX  
IN: 184' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX (TO 537A)

T.L.M. DATA: V5570537				
SIZE	KVA	CUST	% LOAD	
EXIST.	---	---	---	---
PROP.	100	122	46	122%
VOLTAGE DROP: SEE MAP				
FLICKER FACTOR: SEE MAP				
PRI. CIRCUIT: AGATE 12KV				
327: REV. 12/10/21				

CF [11'5"]  
[208] 185'  
H537D TO H537E  
IN: 165' 350 1P  
TENSION 350 1P 5" DUCT  
H537D TO H537E - 156 LBS  
H537E TO H537D - 209 LBS  
CF [21'5"]  
[208] 229'  
V0537 TO X6663  
IN: 229' 700 1P  
TENSION 700 1P 5" DUCT  
V0537 TO X6663 - 258 LBS  
X6663 TO V0537 - 178 LBS

CF [11'4"]  
[604] 67'  
H537D TO V0537  
IN: 67' 700 1P  
TENSION 700 1P 4" DUCT  
H537D TO V0537 - 67 LBS  
V0537 TO H537D - 176 LBS

CF [11'3"]  
[609] 6'  
H537D TO CAP  
FUT: 35' 1/0 1P  
TENSION 1/0 1P 3" DUCT  
H537D TO PNL - 7 LBS

CF [11'4"]  
[208] 184'  
V0537 TO H537A  
IN: 184' 350 1P  
TENSION 350 1P 4" DUCT  
V0537 TO H537A - 206 LBS  
H537A TO V0537 - 123 LBS

CF [21'4"]  
[227] 227'  
V0537 TO P/L PT "A"  
FUT: 412' 3-1/0 JCN 12KV  
TENSION 3-1/0 JCN 4" DUCT  
V0537 TO X4362 - 711 LBS  
X4362 TO V0537 - 741 LBS

CF [11'3"]  
[603] 61'  
H537A TO P/L  
FUT: 98' 1/0 1P  
TENSION 1/0 1P 3" DUCT  
H537A TO PNL - 29 LBS

MATCH LINE STA. 120+00  
SEE SHEET 4

MATCH LINE STA. 12+00  
SEE SHEET 3

SURVEYED  
DATE: 07/30/15

WARNING:  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



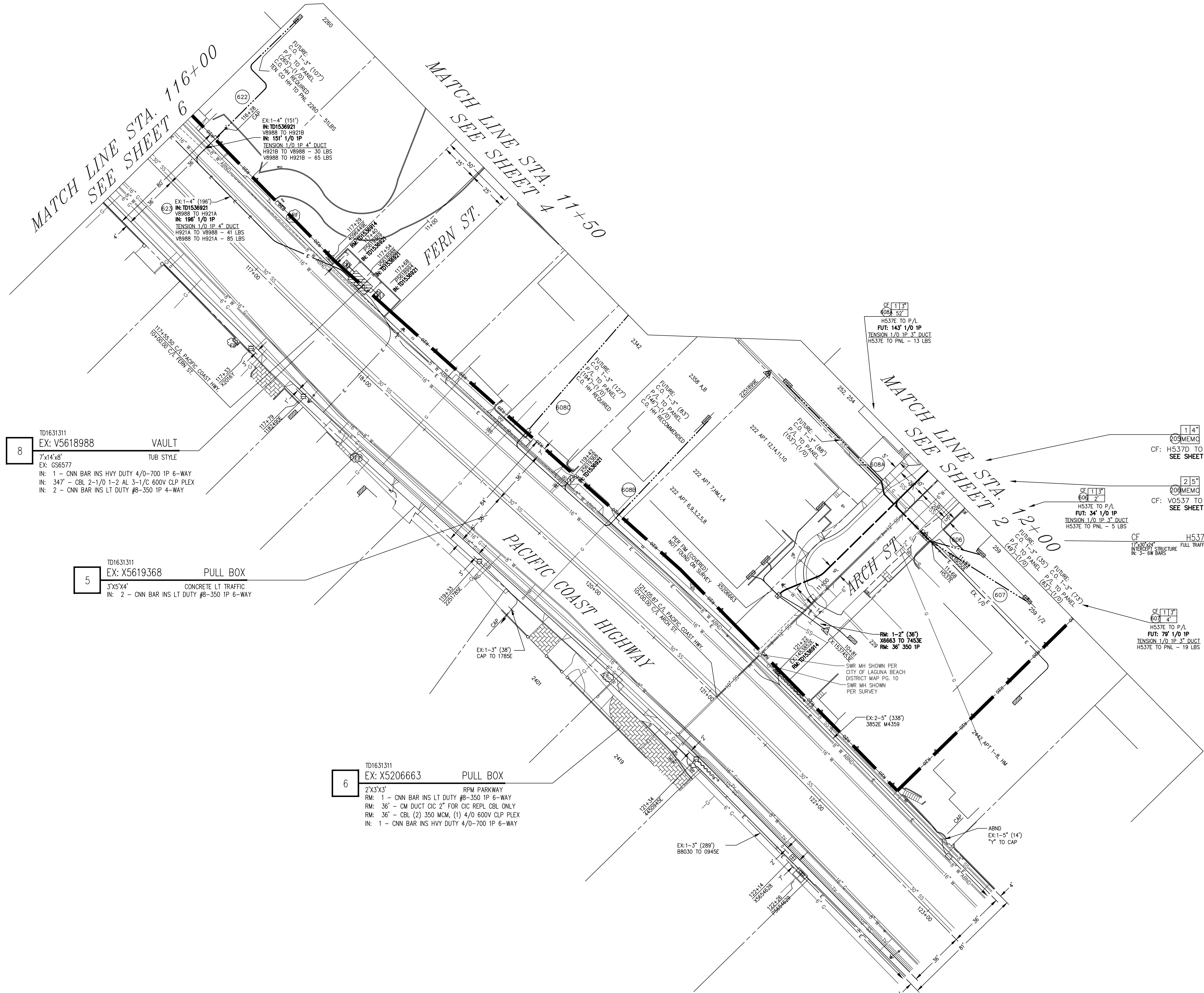
INVENTORY MAPS:	
MT-2809-D2	
MT-2809-B4	
MT-2809-B2	
MT-2809-B3	
MT-2809-B1	
MT-2810-H3	
MT-2810-H1	
MT-2810-H2	
MT-2810-F4	
MT-2810-F3	
MT-2810-E4	
MT-2810-E2	
MT-2810-F1	
MT-2810-D3	
MT-2810-C4	
MT-2810-D1	
MT-2810-C2	

# FINAL DESIGN

## APPROVED FOR CONSTRUCTION

DISTRICT 4.3 - SADDLEBACK	PROJ. MGR. TODD PEARCE PHONE: 714-973-5637	PLANNER EDWARD ZIEMAN PHONE: 714-973-5690	DESIGNER JESSICA LOW
PROJECT NO. 1890387	SERVICE REQUEST 2792297	MSR NO. N/A	PRODUCT-1 1631311-RULE 20B (UG INSTALL)
CIRCUIT / VOLTAGE AGATE 12KV		GPS	PRODUCT-2 1846105-RULE 20B (OH REMOVAL)
SUB / PG NO. MORRO SUB / B1 & B2		CIRCUIT CODE 00115	PRODUCT-3 -
INVENTORY MAP (SEE ABOVE)	J.P.A. NO. N/A		
PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
F 10/18/22	SLS	EJZ	JLW 52690
P 7/15/22	--	EJZ	JLW 52690
B 5/22/20	--	S. GONSA	TY/JT/QUES 52823
TYPE	DATE	APPROVED BY	CHECKED BY
Southern California Edison Company			
SHEET 2 of 20			DESIGN/DRAWING NO. 1218843_2.01





**SURVEYED**  
DATE: 07/30/15

**WARNING:**  
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- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



SCALE: 1" = 30'

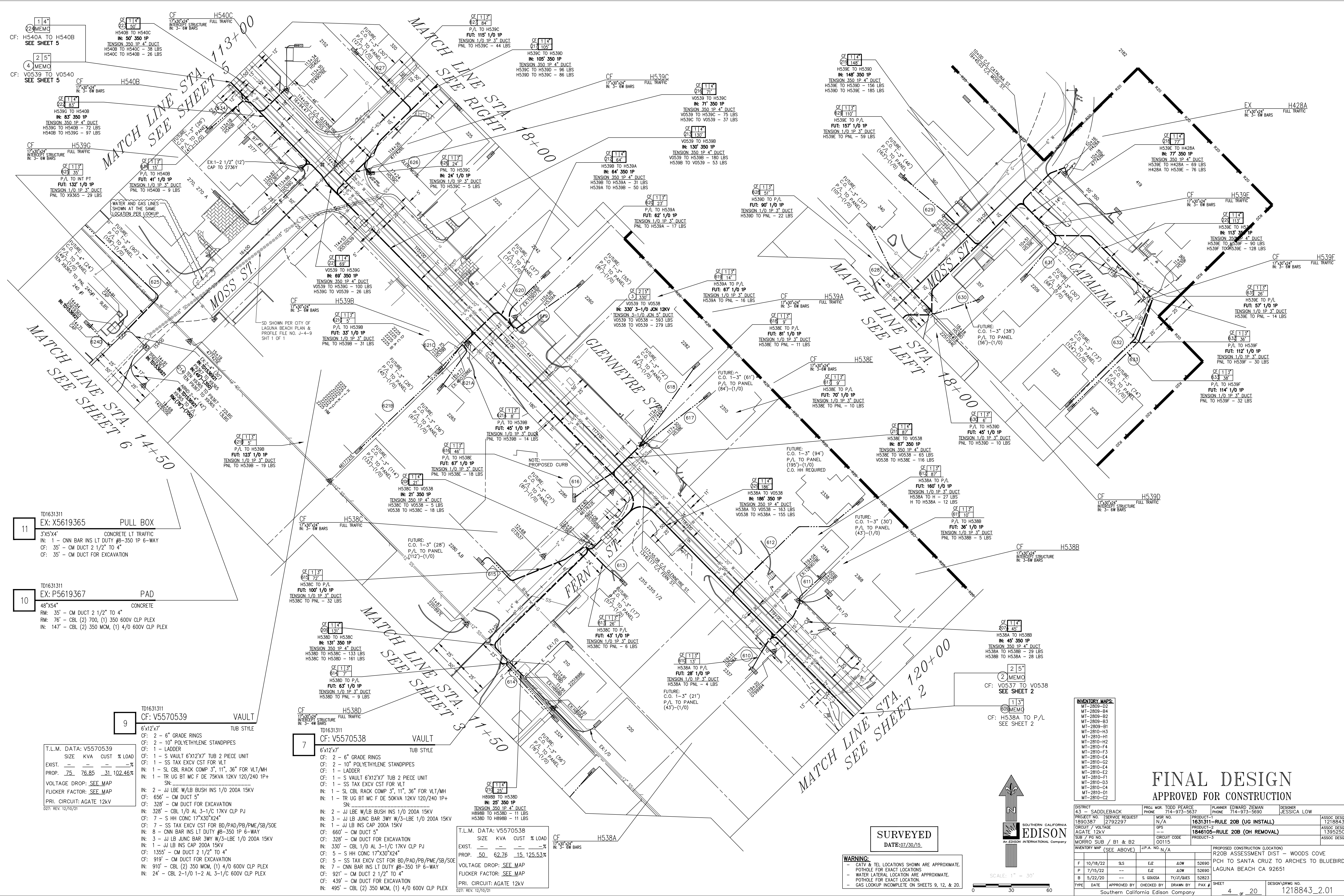
INVENTORY MAPS:	
MT-2809-D2	
MT-2809-B4	
MT-2809-B2	
MT-2809-B3	
MT-2809-B1	
MT-2810-H3	
MT-2810-H1	
MT-2810-H2	
MT-2810-F4	
MT-2810-F3	
MT-2810-E4	
MT-2810-G2	
MT-2810-E2	
MT-2810-F1	
MT-2810-D3	
MT-2810-C4	
MT-2810-D1	
MT-2810-C2	

## FINAL DESIGN

APPROVED FOR CONSTRUCTION

DISTRICT 43 - SADDLEBACK		PROJ. MGR. TODD PEARCE PHONE 714-973-5637		PLANNER EDWARD ZIEMAN PHONE 714-973-5690		DESIGNER JESSICA LOW	
PROJECT NO. 1890387	SERVICE REQUEST 2792297	MSR NO. N/A	PRODUCT-1 1631311-RULE 20B (UG INSTALL)	ASSOC DESIGN 1218843			
CIRCUIT / VOLTAGE AGATE 12kV		GPS	PRODUCT-2 1846105-RULE 20B (OH REMOVAL)	ASSOC DESIGN 1395250			
SUB / PG NO. MORRO SUB / B1 & B2	CIRCUIT CODE 00115	J.P.A. NO. N/A	PRODUCT-3	ASSOC DESIGN			
INVENTORY MAP (SEE ABOVE)				PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
F 10/18/22	SLS	EIZ	JLW	52690	SHEET 3 of 20		
P 7/15/22	--	EIZ	JLW	52690	DESIGN/DRAW NO. 1218843_2.01		
B 5/22/20	--	S. GOMSA	TY/JT/QUES	52823			
TYPE DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	Southern California Edison Company		





11  
TD1631311  
EX: X5619365  
PULL BOX  
3'X5'4"  
CONCRETE LT TRAFFIC  
IN: 1 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 35' - CM DUCT 2 1/2" TO 4"  
CF: 35' - CM DUCT FOR EXCAVATION

10  
TD1631311  
EX: P5619367  
PAD  
48"X54"  
CONCRETE  
RM: 35' - CM DUCT 2 1/2" TO 4"  
RM: 76' - CBL (2) 700, (1) 350 600V CLP PLEX  
IN: 147' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

9  
TD1631311  
CF: V5570539  
VAULT  
6'x12'x7'  
TUB STYLE  
CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S VAULT 6'x12'x7' TUB 2 PIECE UNIT  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F DE 75KVA 12KV 120/240 1P+ SN  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
CF: 656' - CM DUCT 5"  
CF: 328' - CM DUCT FOR EXCAVATION  
IN: 328' - CBL 1/0 AL 3-1/1C 17KV CLP PJ  
CF: 7 - S HH CONC 17"X30"X24"  
CF: 7 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 8 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
IN: 3 - JJ LB JUNC BAR 3WY W/3-LBE 1/0 200A 15KV  
IN: 1 - JJ LB INS CAP 200A 15KV  
CF: 1355' - CM DUCT 2 1/2" TO 4"  
CF: 919' - CM DUCT FOR EXCAVATION  
IN: 910' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX  
IN: 24' - CBL 2-1/0 1-2 AL 3-1/1C 600V CLP PLEX

T.L.M. DATA: V5570539  
SIZE KVA CUST % LOAD  
EXIST. --- --- ---  
PROP. 75 76.85 31 102.46%  
VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
027: REV. 12/10/21

7  
TD1631311  
CF: V5570538  
VAULT  
6'x12'x7'  
TUB STYLE  
CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S VAULT 6'x12'x7' TUB 2 PIECE UNIT  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F DE 50KVA 12KV 120/240 1P+ SN  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
IN: 3 - JJ LB JUNC BAR 3WY W/3-LBE 1/0 200A 15KV  
IN: 1 - JJ LB INS CAP 200A 15KV  
CF: 660' - CM DUCT 5"  
CF: 328' - CM DUCT FOR EXCAVATION  
IN: 330' - CBL 1/0 AL 3-1/1C 17KV CLP PJ  
CF: 5 - S HH CONC 17"X30"X24"  
CF: 5 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 7 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 921' - CM DUCT 2 1/2" TO 4"  
CF: 439' - CM DUCT FOR EXCAVATION  
IN: 495' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

T.L.M. DATA: V5570538  
SIZE KVA CUST % LOAD  
EXIST. --- --- ---  
PROP. 50 62.76 15 125.53%  
VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
027: REV. 12/10/21

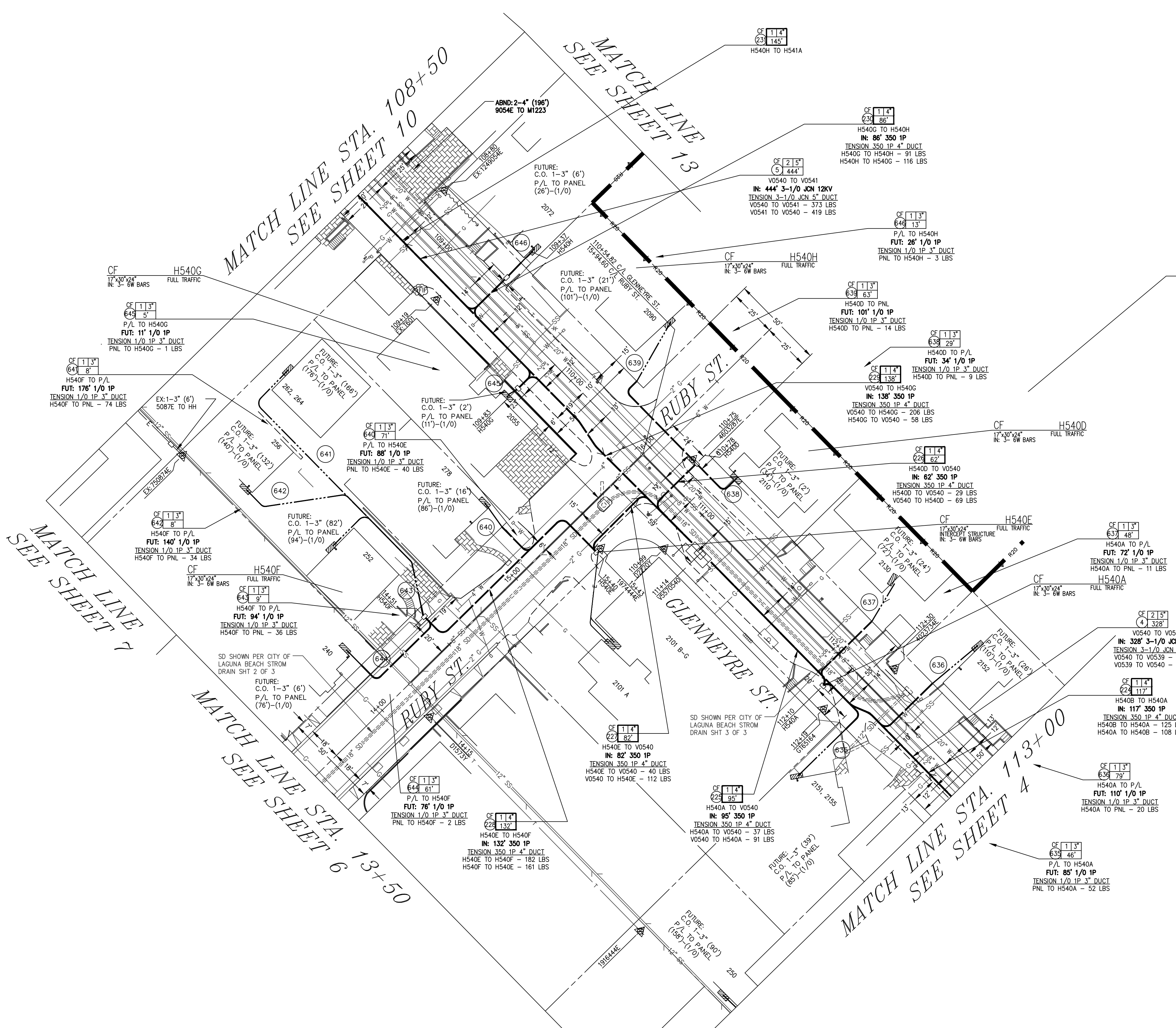
SURVEYED  
DATE: 07/30/15

WARNING:  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS.  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



INVENTORY MAPS:			
MT-2809-B2	MT-2809-B4	MT-2809-B2	MT-2809-B3
MT-2809-B1	MT-2810-H3	MT-2810-H1	MT-2810-H2
MT-2810-F4	MT-2810-F3	MT-2810-E4	MT-2810-E2
MT-2810-D3	MT-2810-C4	MT-2810-D1	MT-2810-C2
DISTRICT 43 - SADDLEBACK			
PROJECT NO. 1890387	SERVICE REQUEST 2792297	MSR NO. N/A	PHONE 714-973-5637
CREDIT / VOLTAGE AGATE 12KV	PRODUCT-2 1846105-RULE 20B (UG REMOVAL)	PRODUCT-3 20B (OH INSTALL)	ASSOC DESIGN 1218843
SUB / PG NO. MORRO SUB / B1 & B2	CIRCUIT CODE 00115	PRODUCT-3 20B (OH REMOVAL)	ASSOC DESIGN 1395250
INVENTORY MAP (SEE ABOVE)			
PROPOSED CONSTRUCTION (LOCATION)			
R20B ASSESSMENT DIST - WOODS COVE			
PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
F 10/18/22	SLS	E&Z	JLOW 52690
P 7/15/22	---	E&Z	JLOW 52690
B 5/22/20	---	S. GOMSA	TH/JT/QUES 52823
TYPE	DATE	APPROVED BY	CHECKED BY
Southern California Edison Company			
SHEET 4 OF 20			
DESIGN/DRAWING NO. 1218843_2.01			





TD1631311  
CF: V5570540

VAULT 13

6'x12'x7'  
TUB STYLE

CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S VAULT 6'x12'x7' TUB 2 PIECE UNIT  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F DE 75KVA 12KV 120/240 1P+ SN:  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
IN: 3 - JJ LB JUNC BAR 3WY W/3-LBE #2 200A 15KV  
IN: 1 - JJ LB INS CAP 200A 15KV  
CF: 888' - CM DUCT 5"  
CF: 444' - CM DUCT FOR EXCAVATION  
IN: 444' - CBL 1/0 AL 3-1/C 17KV CLP PJ  
CF: 8 - S HH CONC 17"x30"x24"  
CF: 8 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 9 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 1340' - CM DUCT 2 1/2" TO 4"  
CF: 574' - CM DUCT FOR EXCAVATION  
IN: 755' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

T.L.M. DATA: V5570540

SIZE	KVA	CUST	% LOAD
EXIST.	---	---	---
PROP.	75	75.74	23 100.99%

VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
D27: REV. 12/10/21

INVENTORY MAPS:

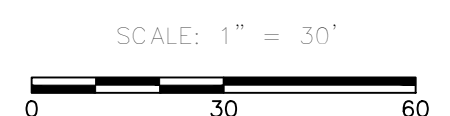
MT-2809-B2
MT-2809-B4
MT-2809-B2
MT-2809-B3
MT-2809-B1
MT-2810-H3
MT-2810-H1
MT-2810-H2
MT-2810-F4
MT-2810-F3
MT-2810-E4
MT-2810-G2
MT-2810-E4
MT-2810-E2
MT-2810-F1
MT-2810-D3
MT-2810-C4
MT-2810-D1
MT-2810-C2

FINAL DESIGN  
APPROVED FOR CONSTRUCTION

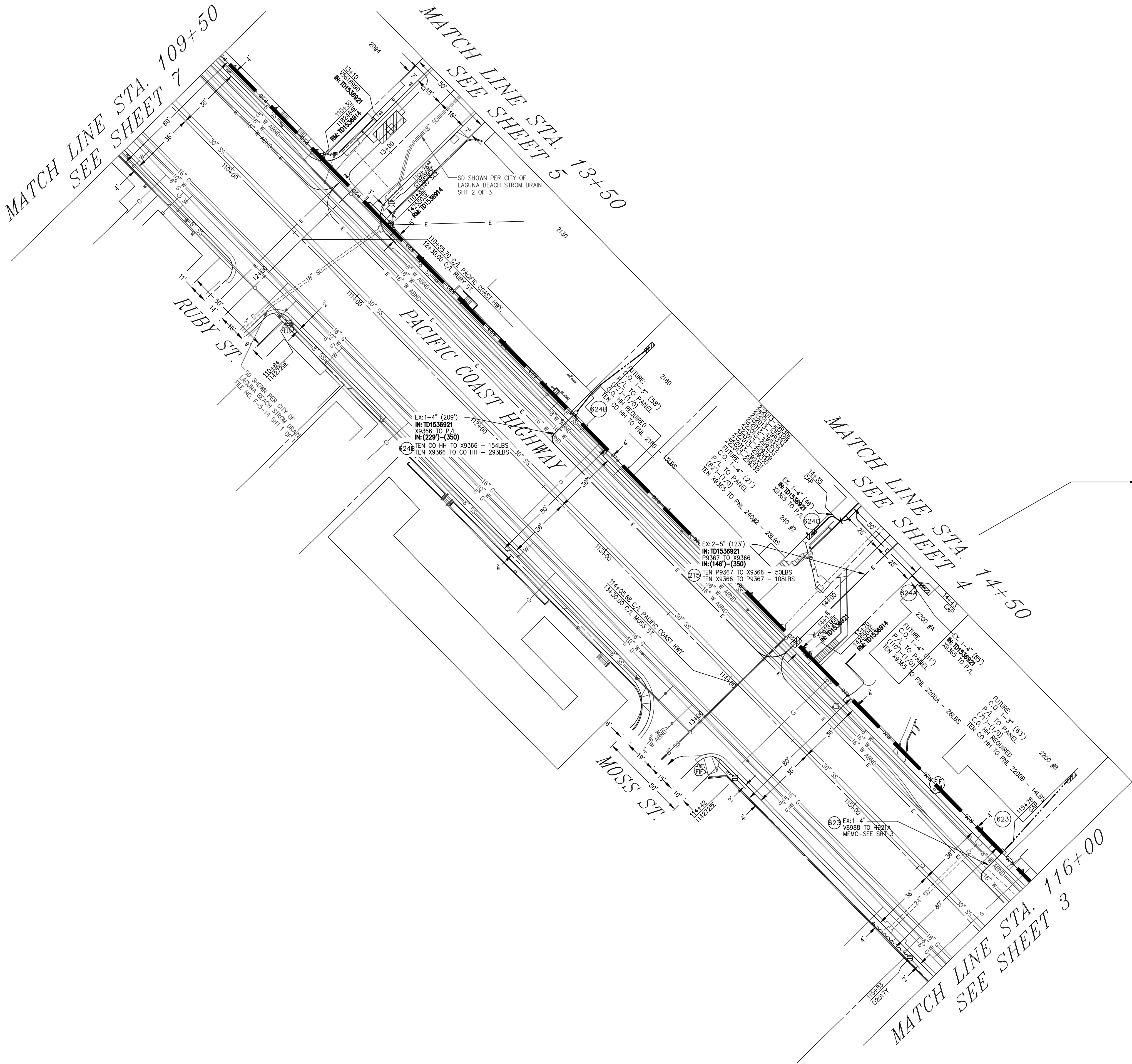
DISTRICT 43 - SADDLEBACK		PROJ. MGR. TODD PEARCE PHONE 714-973-5637	PLANNER EDWARD ZIEMAN PHONE 714-973-5690	DESIGNER JESSICA LOW
PROJECT NO. 1890387 SERVICE REQUEST 2792297		MSR NO. N/A	PRODUCT-1 1631311-RULE 20B (UG INSTALL)	ASSOC DESIGN 1218843
CIRCUIT / VOLTAGE AGATE 12KV		GPS	PRODUCT-2 1846105-RULE 20B (OH REMOVAL)	ASSOC DESIGN 1395250
SUB / PG NO. MORRO SUB / B1 & B2		CIRCUIT CODE 00115	PRODUCT-3	ASSOC DESIGN
INVENTORY MAP (SEE ABOVE)		J.P.A. NO. N/A	PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651	
F	10/18/22	SLS	EJZ	JLW 52690
P	7/15/22	---	EJZ	JLW 52690
B	5/22/20	---	S. GOMSA	TY/JT/QUES 52823
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY
Southern California Edison Company				
5 of 20				DESIGN/DWG NO. 1218843_2.01

SURVEYED  
DATE: 07/30/15

WARNING:  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



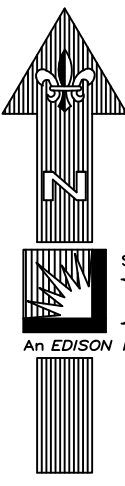




TD1631311  
EX: X5619366  
PULL BOX 12  
3'X5'X4' CONCRETE LT TRAFFIC  
IN: 2 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
IN: 212' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

SURVEYED  
DATE: 07/30/15

**WARNING:**  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



SCALE: 1" = 30'  
0 30 60

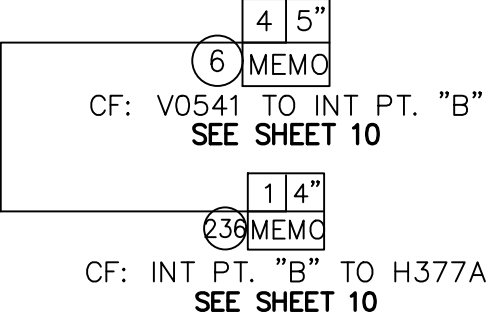
INVENTORY MAPS:	
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MT-2810-H2	
MT-2810-F4	
MT-2810-F3	
MT-2810-E4	
MT-2810-E2	
MT-2810-F1	
MT-2810-D3	
MT-2810-C4	
MT-2810-D1	
MT-2810-C2	

# FINAL DESIGN

APPROVED FOR CONSTRUCTION

DISTRICT 43 - SADDLEBACK			PROJ. MGR. TODD PEARCE PHONE 714-973-5637		PLANNER EDWARD ZIEMAN PHONE 714-973-5690		DESIGNER JESSICA LOW		
PROJECT NO. 1890387			SERVICE REQUEST 2792297		MSR NO. N/A		PRODUCT-1 1631311-RULE 20B (UG INSTALL)		ASSOC DESIGN 1218843
CIRCUIT / VOLTAGE AGATE 12kV			GPS		PRODUCT-2		1846105-RULE 20B (OH REMOVAL)		ASSOC DESIGN 1395250
SUB / PG NO. MORRO SUB / B1 & B2			CIRCUIT CODE 00115		PRODUCT-3				ASSOC DESIGN
INVENTORY MAP (SEE ABOVE)			J.P.A. NO. N/A		PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651				
F	10/18/22	SLS	E.I.Z	JLOW	52690				
P	7/15/22	---	E.I.Z	JLOW	52690				
B	5/22/20	---	S. GOMUSA	TY/AT/QUES	52823				
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN/DWG. NO.		
Southern California Edison Company						6	of 20		1218843_2.01





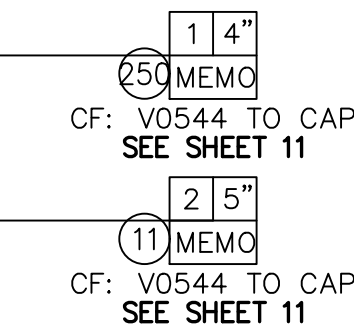
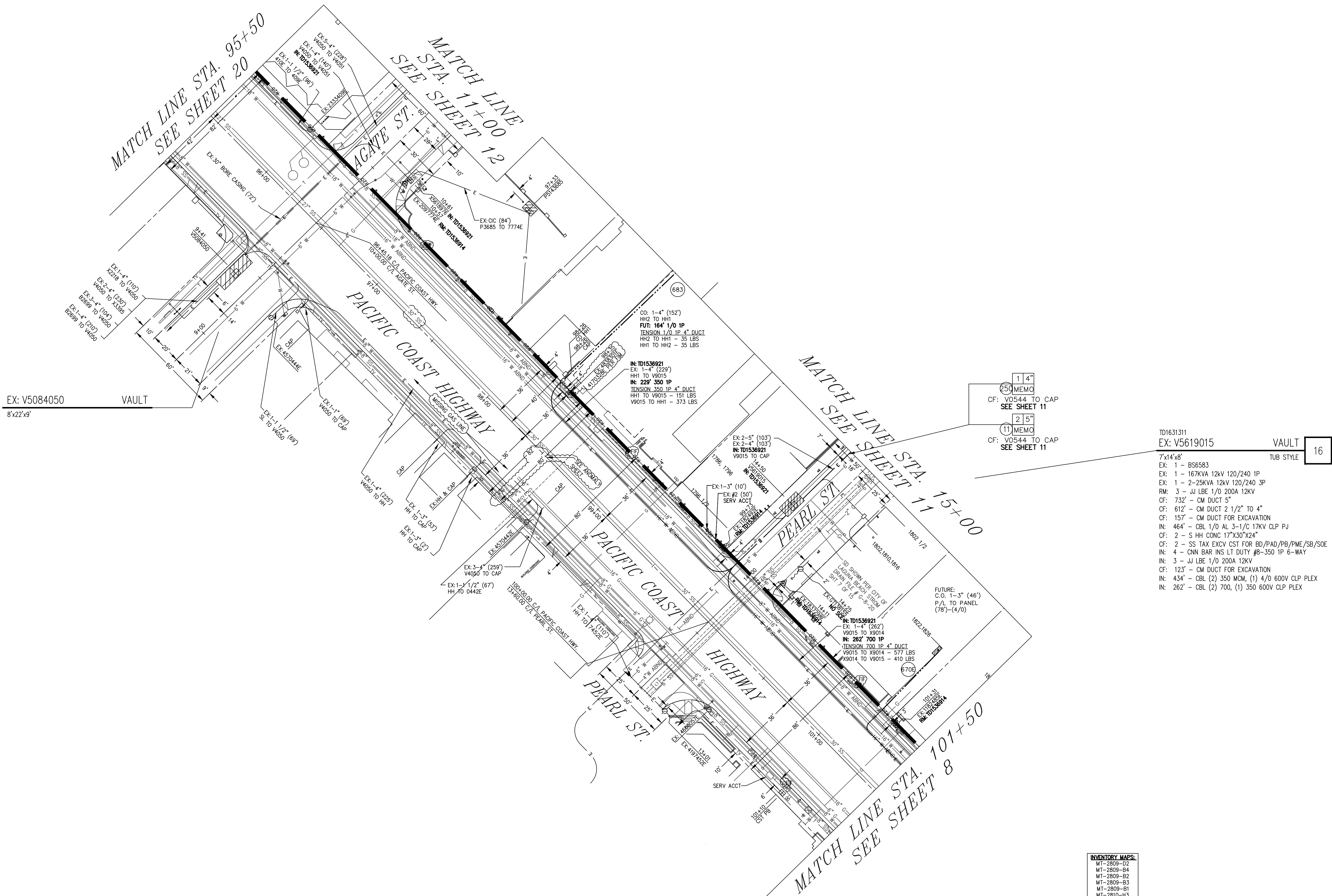
T.L.M. DATA: V5619377				
	SIZE	KVA	CUST	% LOAD
EXIST.	<u>25</u>	18.16	<u>6</u>	72.62%
PROP.	<u>50</u>	58.71	<u>12</u>	117.43%
VOLTAGE DROP: <u>SEE MAP</u>				
FLICKER FACTOR: <u>SEE MAP</u>				
PRI. CIRCUIT: AGATE 12kV				

PROJECT: SADDLEBACK		PROJ. MGR. TODD PEARCE PHONE 714-973-5562		PLANNER PHILIP EDWARDS PHONE 714-974-5660		DESIGNER JESSICA LOW	
SUB CONTRACT: SERVICE REQUEST 18903837 2792297		MSR NO. N/A		PRODUCT- 161311--RULE 20B (UG INSTAL)		ASSOC DESIGN 1218843	
SUB CONTRACT: 12VOLT AGATE 12KV		GFCI CODE		PRODUCT- 1846105--RULE 20B (UG REMOVAL)		ASSOC DESIGN 1395250	
SUB / PG NO. MORRO SLUB / B1 & B2		CIRCUIT CODE 001113		PRODUCT- 3		ASSOC DESIGN	
INVENTORY MAP (SEE ABOVE)		J.P.A. CODE N/A		PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST -- WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
DATE		APPROVED BY		CHECKED BY		DRAWN BY	
10/18/22		SLS		EJT		JLOW	
7/15/22		---		S. GOWSA		TJ/TJ/JUES	
5/22/20		---		S. GOWSA		TJ/TJ/JUES	
TYPE		DATE		APPROVED BY		CHECKED BY	
P		7/15/22		SLS		EJT	
B		5/22/20		---		S. GOWSA	
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E		5/22/20		---		S. GOWSA	
J		5/22/20		---		S. GOWSA	
S		5/22/20		---		S. GOWSA	
E		5/22/20		---		S. GOWSA	
J		5/22/20		---		S. GOWSA	
S		5/22/20		---		S. GOWSA	
E		5/22/20		---		S. GOWSA	
J		5/22/20		---		S. GOWSA	
S		5/22/20		---		S. GOWSA	
E		5/22/20		---		S. GOWSA	
J		5/22/20		---		S. GOWSA	
S		5/22/20					









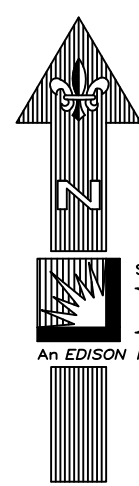
TD1631311  
EX: V5619015  
VAULT  
TUB STYLE 16

7'x14'x8'  
EX: 1 - BS6583  
EX: 1 - 167KVA 12KV 120/240 1P  
EX: 1 - 2-25KVA 12KV 120/240 3P  
RM: 3 - JJ LBE 1/0 200A 12KV  
CF: 732' - CM DUCT 5"  
CF: 612' - CM DUCT 2 1/2" TO 4"  
CF: 157' - CM DUCT FOR EXCAVATION  
IN: 464' - CBL 1/0 AL 3-1/C 17KV CLP PJ  
CF: 2 - S HH CONC 17"x30"x24"  
IN: 4 - CWN BAR INS LT DUTY #8-350 1P 6-WAY  
IN: 3 - JJ LBE 1/0 200A 12KV  
CF: 123' - CM DUCT FOR EXCAVATION  
IN: 434' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX  
IN: 262' - CBL (2) 700, (1) 350 600V CLP PLEX

SURVEYED  
DATE:10/21/13

SURVEYED  
DATE:07/30/15

**WARNING:**  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



SCALE: 1" = 30'  
0 30 60

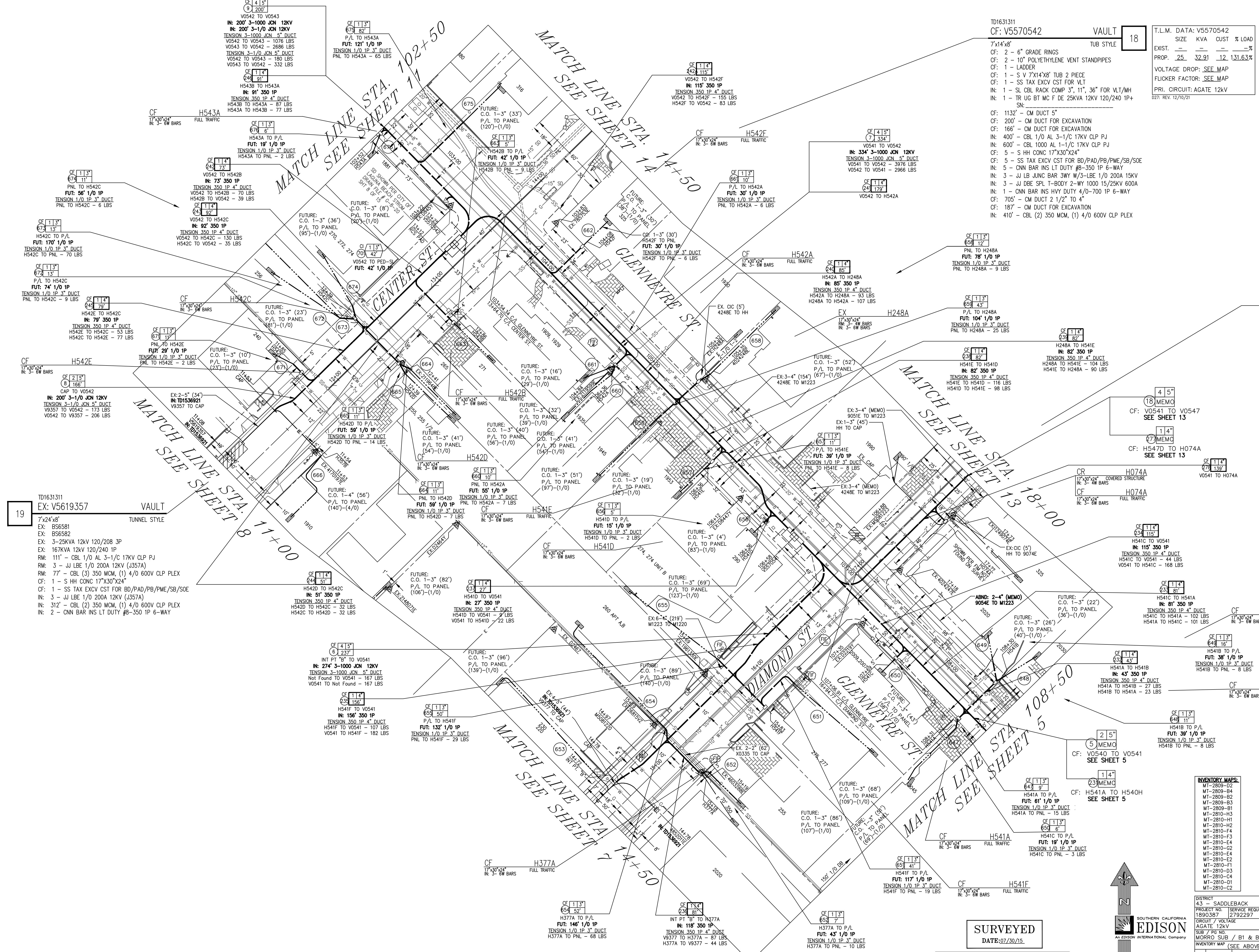
INVENTORY MAPS:	
MT-2809-D2	
MT-2809-B4	
MT-2809-B2	
MT-2809-B3	
MT-2809-B1	
MT-2810-H3	
MT-2810-H1	
MT-2810-H2	
MT-2810-F4	
MT-2810-F3	
MT-2810-E4	
MT-2810-E2	
MT-2810-F1	
MT-2810-D3	
MT-2810-C4	
MT-2810-D1	
MT-2810-C2	

## FINAL DESIGN

### APPROVED FOR CONSTRUCTION

DISTRICT PROJECT NO.		PROJ. MGR. TODD PEARCE PHONE 714-973-5637		PLANNER EDWARD ZIEMAN PHONE 714-973-5690		DESIGNER JESSICA LOW	
SERVICE REQUEST 1890387 2792297		MSR NO. N/A		PRODUCT-1 1631311-RULE 20B (UG INSTALL)		ASSOC DESIGN 1218843	
CIRCUIT / VOLTAGE AGATE 12KV		GPS		PRODUCT-2 1846105-RULE 20B (OH REMOVAL)		ASSOC DESIGN 1395250	
SUB / PG NO. MORRO SUB / B1 & B2		CIRCUIT CODE 00115		PRODUCT-3		ASSOC DESIGN 1395250	
INVENTORY MAP (SEE ABOVE)		J.P.A. NO. N/A		PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			
F	10/18/22	SLS	EIZ	JLW	52690		
P	7/15/22	---	EIZ	JLW	52690		
B	5/22/20	---	S. GOMUSA	TY/JT/QUES	52823		
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN/DWG NO.
Southern California Edison Company						9 OF 20	1218843_2.01





TD1631311

CF: V5570542

VAULT

18

7'x14'x8"  
CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE VENT STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S V 7'x14'x8" TUB 2 PIECE  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F DE 25KVA 12KV 120/240 1P+  
SN:  
CF: 1132' - CM DUCT 5"  
CF: 200' - CM DUCT FOR EXCAVATION  
CF: 166' - CM DUCT FOR EXCAVATION  
IN: 400' - CBL 1/0 AL 3-1/C 17KV CLP PJ  
IN: 600' - CBL 1000 AL 1-1/C 17KV CLP PJ  
CF: 5 - SS HH CONC 17"x30"x24"  
CF: 5 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 5 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
IN: 3 - JJ LB JUNG BAR 3WY W/3-LBE 1/0 200A 15KV  
IN: 3 - JJ DBE SPL T-BODY 2-WY 1000 15/25KV 600A  
IN: 1 - CNN BAR INS HVY DUTY 4/0-700 1P 6-WAY  
CF: 705' - CM DUCT 2 1/2" TO 4"  
CF: 187' - CM DUCT FOR EXCAVATION  
IN: 410' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

T.L.M. DATA: V5570542				
SIZE	KVA	CUST	%	LOAD
EXIST.	—	—	—	—
PROP.	25	32.91	12	131.63%
VOLTAGE DROP: SEE MAP				
FLICKER FACTOR: SEE MAP				
PRI. CIRCUIT: AGATE 12KV				
027: REV. 12/10/21				

CF: V5570541

VAULT

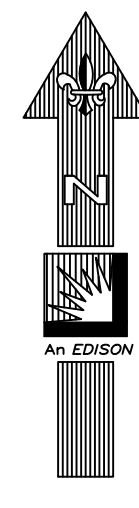
17

7'x14'x8"  
CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE VENT STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S V 7'x14'x8" TUB 2 PIECE  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - SW UG SF6 LB RAG 5-WY 600A 17.5KV (GS7191)  
SN:  
IN: 3 - JJ 3-DBE 1000 600A (POS. 1,2,5)  
IN: 5 - JJ LBE 1/0 600A 15KV (POS. 3,4)  
IN: 1 - JJ DE DB RCPT INS W/TST PNT 600A (POS. 3)  
IN: 1 - TR UG BT MC F DE 50KVA 12KV 120/240 1P+  
SN:  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
CF: 2284' - CM DUCT 5"  
CF: 567' - CM DUCT FOR EXCAVATION  
IN: 1824' - CBL 1000 AL 1-1/C 17KV CLP PJ  
CF: 7 - SS HH CONC 17"x30"x24"  
CF: 7 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 8 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 804' - CM DUCT 2 1/2" TO 4"  
CF: 257' - CM DUCT FOR EXCAVATION  
IN: 628' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

T.L.M. DATA: V5570541				
SIZE	KVA	CUST	%	LOAD
EXIST.	—	—	—	—
PROP.	50	64.68	17	129.35%
VOLTAGE DROP: SEE MAP				
FLICKER FACTOR: SEE MAP				
PRI. CIRCUIT: AGATE 12KV				
027: REV. 12/10/21				

SURVEYED  
DATE: 07/30/15

WARNING:  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POTHOLES FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POTHOLES FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



SCALE: 1" = 30'

## FINAL DESIGN

### APPROVED FOR CONSTRUCTION

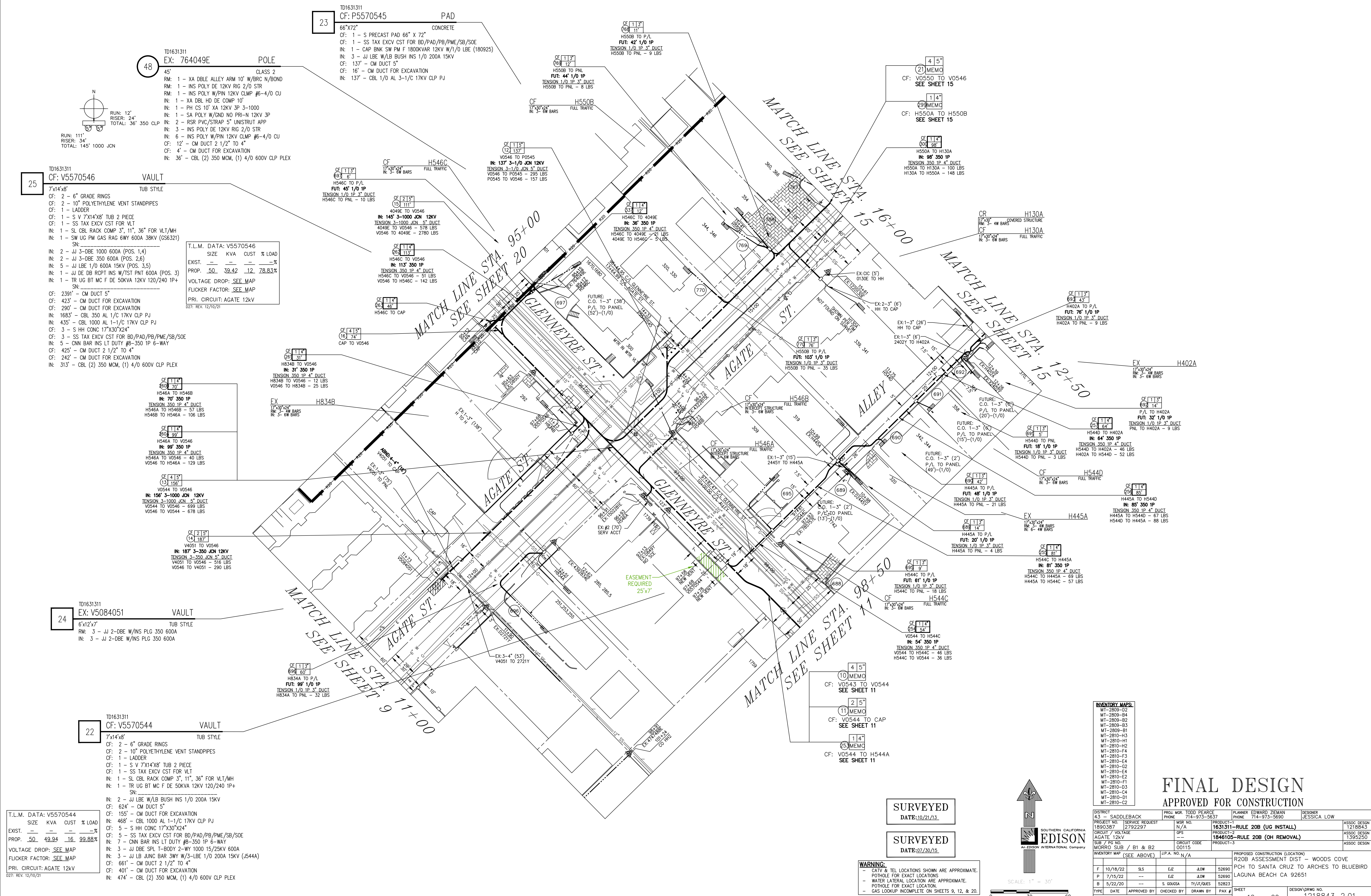
INVENTORY MAPS:				
MT-2809-B2	MT-2809-B4	MT-2809-B2	MT-2809-B3	MT-2809-B1
MT-2810-H3	MT-2810-H1	MT-2810-H2	MT-2810-F4	MT-2810-F3
MT-2810-E4	MT-2810-G2	MT-2810-E4	MT-2810-E2	MT-2810-F1
MT-2810-D3	MT-2810-C4	MT-2810-D1	MT-2810-C2	

DISTRICT		PROJ. MGR.		PLANNER		DESIGNER	
4.3 - SADDLEBACK		TODD PEARCE		EDWARD ZIEMAN		JESSICA LOW	
PROJECT NO.		MSR NO.		PRODUCT-1		ASSOC DESIGN	
1890387		N/A		1631311-RULE 20B (UG INSTALL)		1218843	
SERVICE REQUEST		GPS		1846105-RULE 20B (OH REMOVAL)		ASSOC DESIGN	
2792297		PRODUCT-3				1395260	
CIRCUIT / VOLTAGE		CIRCUIT CODE		ASSOC DESIGN			
AGATE 12KV		00115					
SUB / PG NO.		INVENTORY MAP					
MORRO SUB / B1 & B2		(SEE ABOVE)					
J.P.A. NO.		N/A		PROPOSED CONSTRUCTION (LOCATION)			
				R20B ASSESSMENT DIST - WOODS COVE			
				PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD			
				LAGUNA BEACH CA 92651			
F	10/18/22	SLS	EZ	JOW	52690		
P	7/15/22	--	EZ	JOW	52690		
B	5/22/20	--	S. GOMUSA	TY/TJ/QDS	52823		
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN/DWG NO.
Southern California Edison Company						10 of 20	1218843_2.01











AUTOMATION EQUIPMENT  
INSTALLATION/RELOCATION/REMOVAL  
DISTRIBUTION CONSTRUCTION  
CONTACT DISTRIBUTION AUTOMATION  
714-285-4325

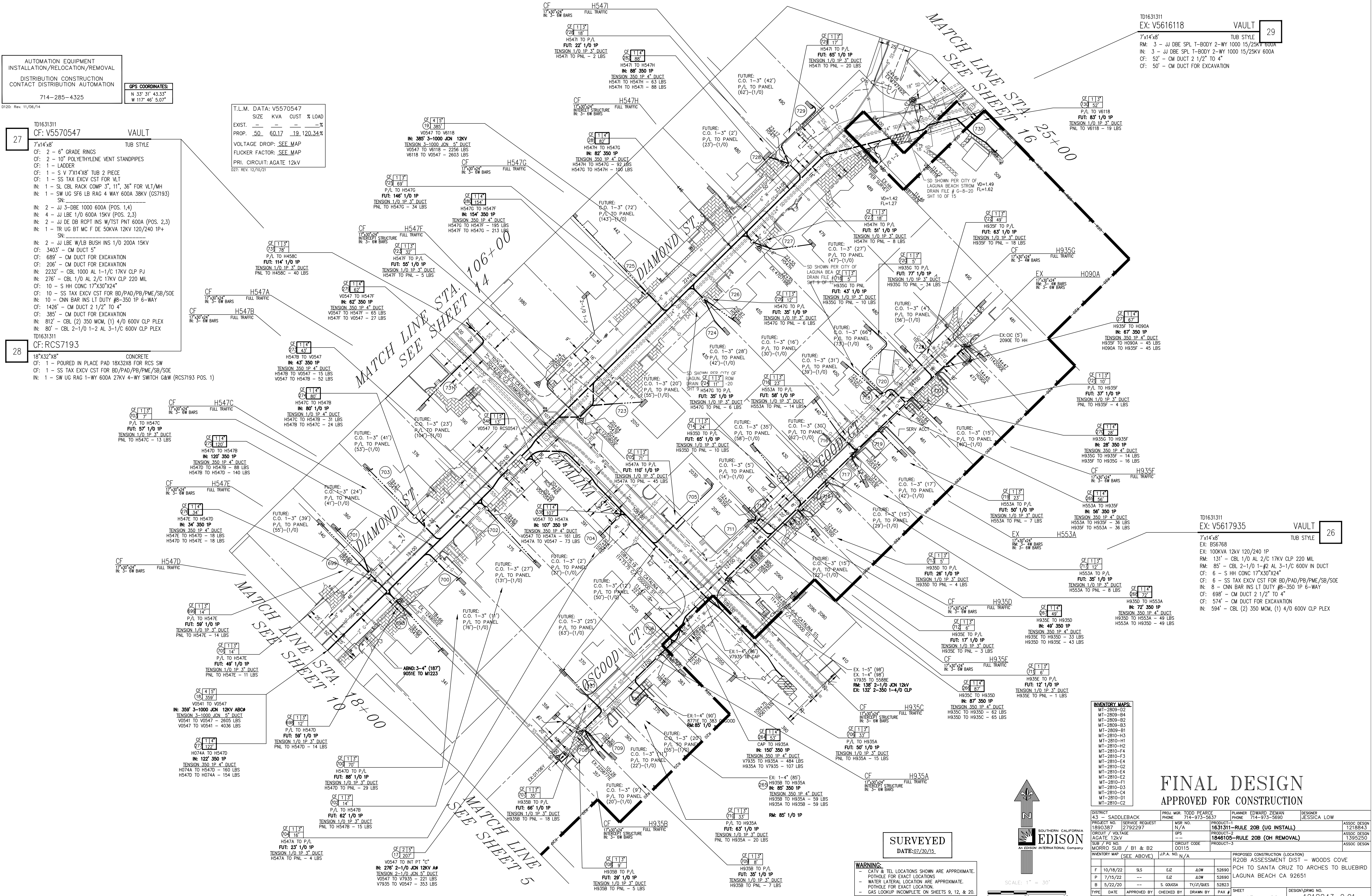
GPS COORDINATES:  
N 33° 31' 43.33"  
W 117° 46' 5.07"

D120: Rev. 11/06/14

T.L.M. DATA: V5570547  
SIZE KVA CUST % LOAD  
EXIST. — — — — —  
PROP. 50 60.17 19 120.34%  
VOLTAGE DROP: SEE MAP  
FLUCKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
D27: REV. 12/10/21

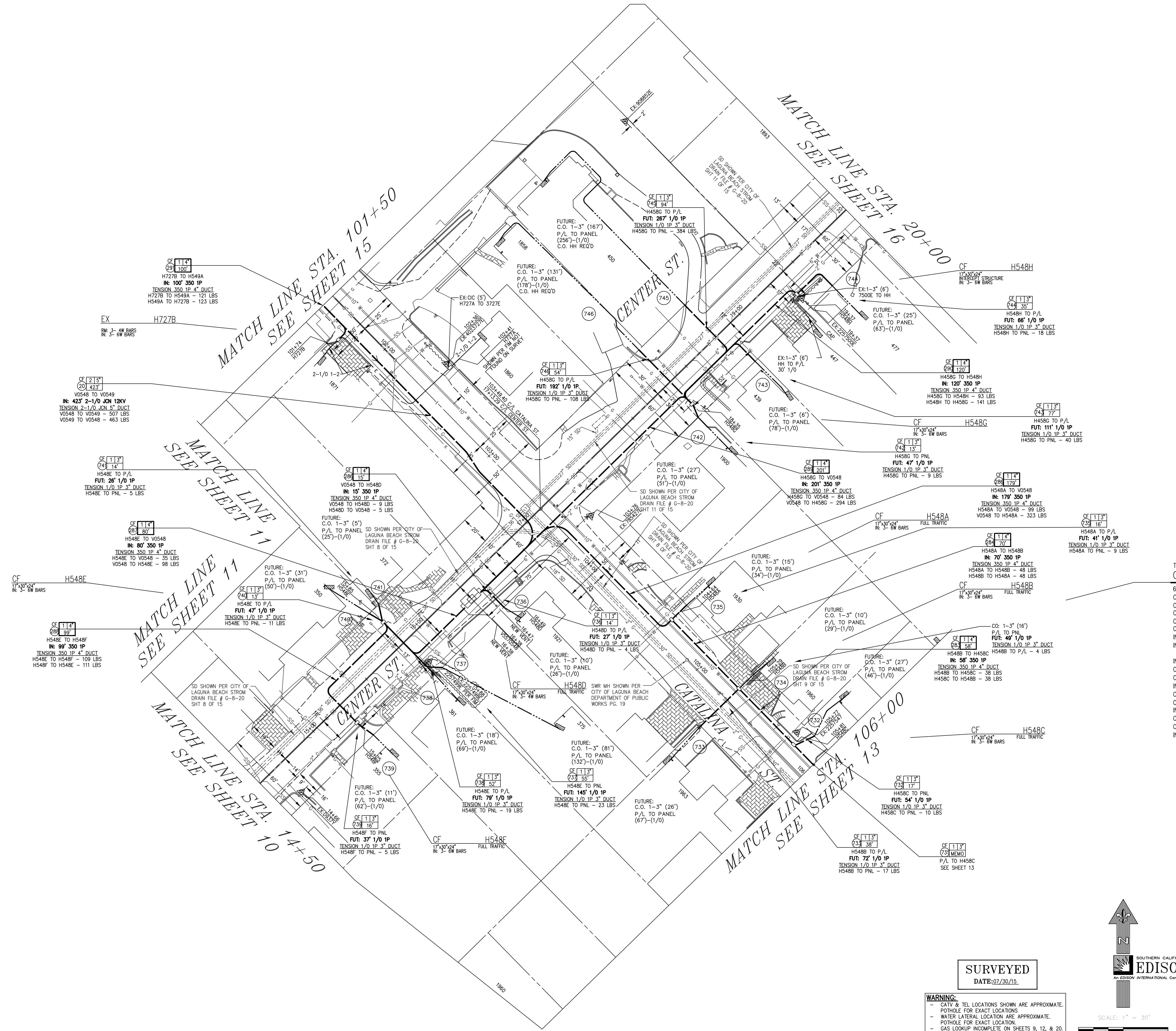
27  
TD1631311  
CF: V5570547  
7'x14'x8'  
TUB STYLE  
CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE VENT STANDPIPES  
CF: 1 - LADDER  
CF: 1 - S V 7'x14'x8' TUB 2 PIECE  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - SW UG SF6 LB RAG 4 WAY 600A 38KV (GS7193)  
SN:  
IN: 2 - JJ 3-DBE 1000 600A (POS. 1,4)  
IN: 4 - JJ LBE 1/0 600A 15KV (POS. 2,3)  
IN: 2 - JJ DE DB RCT INS W/TST PNT 600A (POS. 2,3)  
IN: 1 - TR UG BT MC F DE 50KVA 12KV 120/240 1P+  
SN:  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
CF: 3403' - CM DUCT 5"  
CF: 689' - CM DUCT FOR EXCAVATION  
CF: 206' - CM DUCT FOR EXCAVATION  
IN: 2232' - CBL 1000 AL 1-1/C 17KV CLP PJ  
IN: 276' - CBL 1/0 AL 2/C 17KV CLP 220 MIL  
CF: 10 - S HH CONC 17"x30"x24"  
CF: 10 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 10 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 1426' - CM DUCT 2 1/2" TO 4"  
CF: 385' - CM DUCT FOR EXCAVATION  
IN: 812' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX  
IN: 80' - CBL 2-1/0 1-2 AL 3-1/C 600V CLP PLEX  
TD1631311  
CF: RCS7193  
18"x32"x8"  
CONCRETE  
CF: 1 - POURED IN PLACE PAD 18X32X8 FOR RCS SW  
CF: 1 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 1 - SW UG RAG 1-WY 600A 27KV 4-WY SWITCH G&W (RCS7193 POS. 1)

28  
TD1631311  
CF: RCS7193  
18"x32"x8"  
CONCRETE  
CF: 1 - POURED IN PLACE PAD 18X32X8 FOR RCS SW  
CF: 1 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 1 - SW UG RAG 1-WY 600A 27KV 4-WY SWITCH G&W (RCS7193 POS. 1)



INVENTORY MAPS:	
MT-2809-02	MT-2809-04
MT-2809-03	MT-2809-05
MT-2809-06	MT-2809-07
MT-2809-08	MT-2809-09
MT-2809-10	MT-2809-11
MT-2809-12	MT-2809-13
MT-2809-14	MT-2809-15
MT-2809-16	MT-2809-17
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MT-2809-460	MT-2809-461
MT-2809-462	MT-2809-463
MT-2809-464	MT-2809-465
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MT-2809-472	MT-2809-473
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MT-2809-624	MT-2809-625
MT-2809-626	MT-2809-627
MT-2809-628	MT-2809-629
MT-2809-630	MT-2809-631
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MT-2809-634	MT-2809-635
MT-2809-636	MT-2809-637
MT-2809-638	MT-2809-639
MT-2809-640	MT-2809-641
MT-2809-642	MT-2809-643
MT-2809-644	MT-2809-645





TD1631311  
CF: V5570548

VAULT 30

T.T.M. DATA: V5570548

EXIST.	SIZE	KVA	CUST	% LOAD
50	44.83	17	89.66%	

VOLTAGE DROP: SEE MAP  
FLUCKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
027: REV. 12/10/21

IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
CF: 846' - CM DUCT 5"  
CF: 409' - CM DUCT FOR EXCAVATION  
IN: 423' - CBL 1/0 AL 2/C 17KV CLP 220 MIL  
CF: 8 - S HH CONC 17"x30"x24"  
CF: 8 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 8 - CNN BAR INS LT DUTY #8-350 IP 6-WAY  
CF: 1408' - CM DUCT 2 1/2" TO 4"  
CF: 1056' - CM DUCT FOR EXCAVATION  
IN: 822' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

INVENTORY MAPS:

MT-2809-B2
MT-2809-B4
MT-2809-B2
MT-2809-B3
MT-2809-B1
MT-2810-H3
MT-2810-H1
MT-2810-H2
MT-2810-F4
MT-2810-F3
MT-2810-E4
MT-2810-G2
MT-2810-E4
MT-2810-E2
MT-2810-F1
MT-2810-D3
MT-2810-C4
MT-2810-D1
MT-2810-C2

# FINAL DESIGN

## APPROVED FOR CONSTRUCTION

DISTRICT 43 - SADDLEBACK	PROJ. MGR. TODD PEARCE PHONE 714-973-5637	PLANNER EDWARD ZIEMAN PHONE 714-973-5690	DESIGNER JESSICA LOW
PROJECT NO. 1890387	SERVICE REQUEST 2792297	MSR NO. N/A	PRODUCT-1 1631311-RULE 20B (UG INSTALL)
CIRCUIT / VOLTAGE AGATE 12KV		GPS	PRODUCT-2 1846105-RULE 20B (OH REMOVAL)
SUB / PG NO. MORRO SUB / B1 & B2	CIRCUIT CODE 00115		PRODUCT-3
INVENTORY MAP (SEE ABOVE)	J.P.A. NO. N/A		
F 10/18/22	SLS	EZ	JLW 52690
P 7/15/22	--	EZ	JLW 52690
B 5/22/20	--	S. GOMSA	TY/JT/QUES 52823
TYPE	DATE	APPROVED BY	CHECKED BY
Southern California Edison Company			
PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651			SHEET 14 OF 20
			DESIGN/DRAW NO. 1218843_2.01

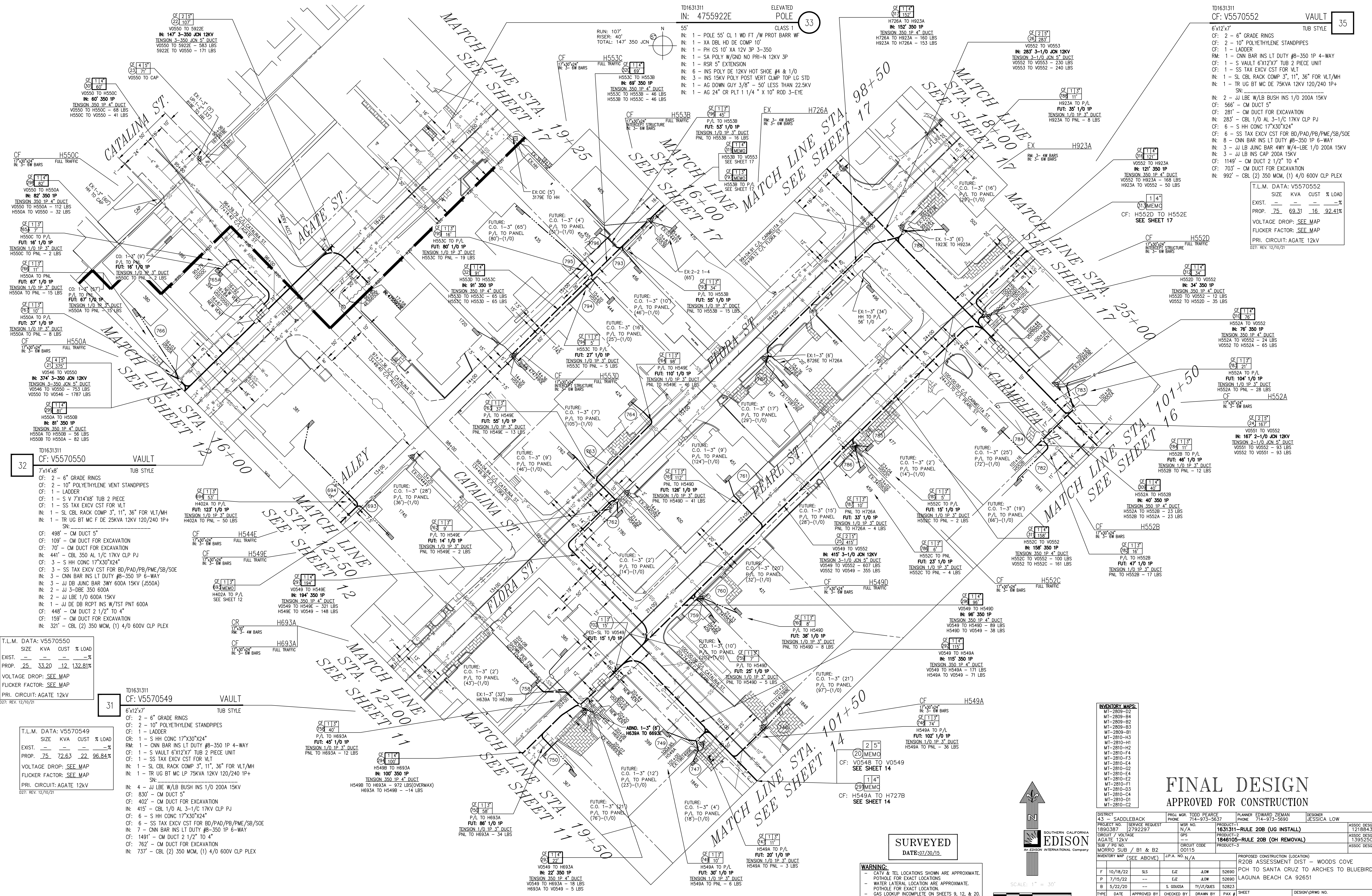
SURVEYED  
DATE: 07/30/15

WARNING:  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



SCALE: 1" = 30'





T.L.M. DATA: V5570550

SIZE	KVA	CUST	% LOAD
EXIST.	—	—	—
PROP.	25	33.20	12 132.81%

VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12kV  
D27: REV. 12/10/21

T.L.M. DATA: V5570549

SIZE	KVA	CUST	% LOAD
EXIST.	—	—	—
PROP.	75	72.63	22 96.84%

VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12kV  
D27: REV. 12/10/21

INVENTORY MAPS:

MT-2809-B2	MT-2809-B4	MT-2809-B2	MT-2809-B3	MT-2809-B1	MT-2810-H3	MT-2810-H1	MT-2810-H2	MT-2810-F4	MT-2810-F3	MT-2810-E4	MT-2810-E2	MT-2810-F1	MT-2810-D3	MT-2810-C4	MT-2810-D1	MT-2810-C2
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DISTRICT 43 - SADDLEBACK		PROJ. MGR. TODD PEARCE PHONE 714-973-5637	PLANNER EDWARD ZIEMAN PHONE 714-973-5690	DESIGNER JESSICA LOW	
PROJECT NO. 1890387	SERVICE REQUEST 27929297	MSR NO. N/A	PRODUCT-1 1631311-RULE 20B (UG INSTALL)	ASSOC DESIGN 1218843	
CIRCUIT / VOLTAGE AGATE 12KV		GPS	PRODUCT-2 1846105-RULE 20B (OH REMOVAL)	ASSOC DESIGN 1395260	
SUB / PG NO. MORRO SUB / B1 & B2		CIRCUIT CODE 00115	PRODUCT-3	ASSOC DESIGN	
INVENTORY MAP (SEE ABOVE)		I.P.A. NO. N/A	PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651		
F	10/18/22	SLS	EJZ	JLOW	52690
P	7/15/22	---	EJZ	JLOW	52690
B	5/22/20	---	S. OQUISA	TY/TI/QUES	52823
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
Southern California Edison Company					
SHEET 15 OF 20					DESIGN/DRWG NO. 1218843_2.01

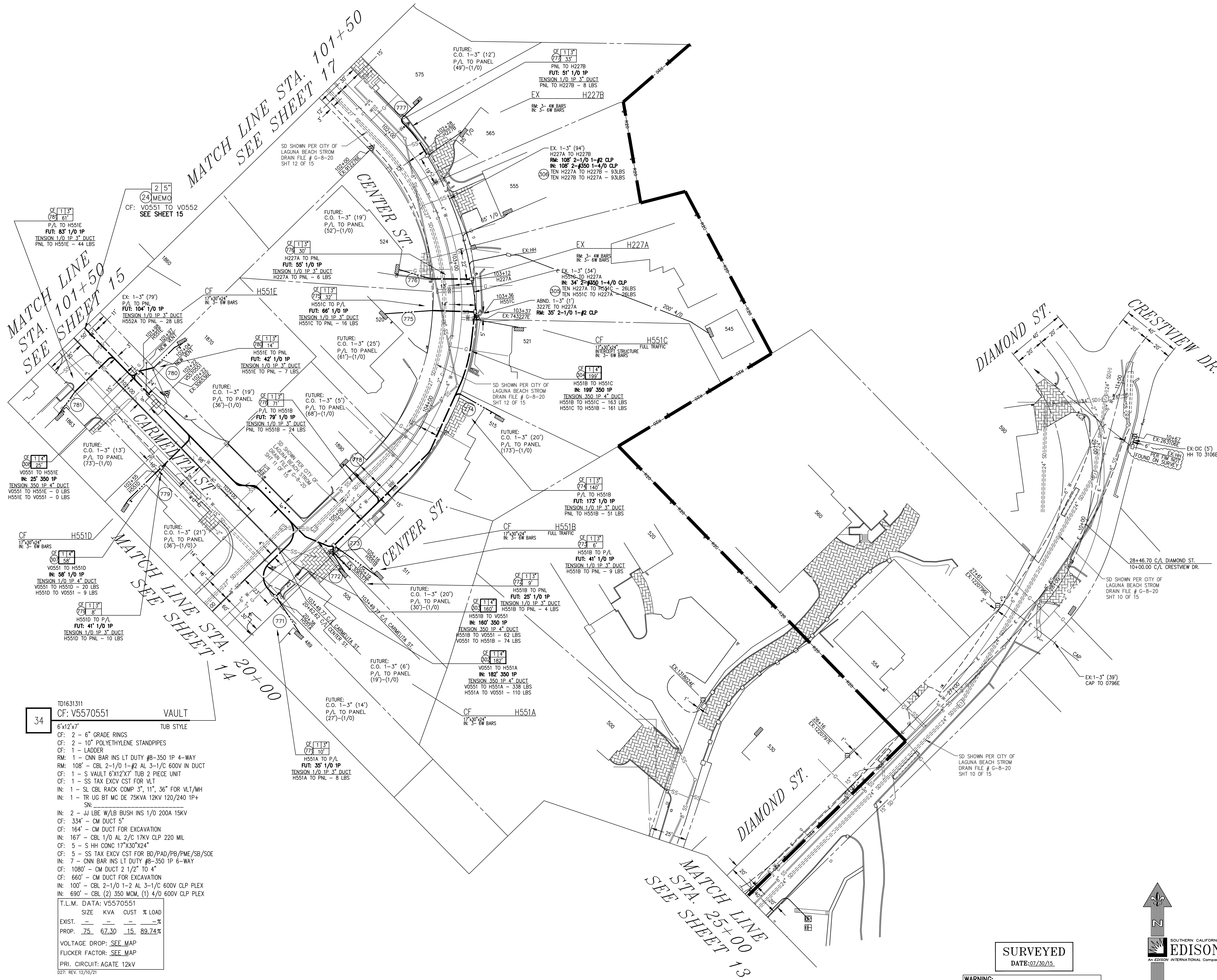
**SURVEYED**  
DATE: 07/30/15

**WARNING:**  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POTHOLES FOR EXACT LOCATIONS.  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POTHOLES FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.

SCALE: 1" = 30'

0 30 60





TD163131  
CF: V5570551 VAULT  
6'x12'x7'  
TUB STYLE

- CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE STANDPIPES  
CF: 1 - LADDER  
RM: 1 - CNN BAR INS LT DUTY #8-350 1P 4-WAY  
RM: 108' - CBL 2-1/0 1-#2 AL 3-1/C 600V IN DUCT  
CF: 1 - S VAULT 6'x12'x7" TUB 2 PIECE UNIT  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC DE 75KVA 12KV 120/240 1P+3N  
IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
CF: 334' - CM DUCT 5"  
CF: 164' - CM DUCT FOR EXCAVATION  
IN: 167' - CBL 1/0 AL 2/C 17KV CLP 220 MIL  
CF: 5 - S HH CONC 17"x30"x24"  
CF: 5 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 7 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 1080' - CM DUCT 2 1/2" TO 4"  
CF: 660' - CM DUCT FOR EXCAVATION  
IN: 100' - CBL 2-1/0 1-2 AL 3-1/C 600V CLP PLEX  
IN: 690' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

T.L.M. DATA: V5570551			
EXIST.	SIZE	KVA	CUST % LOAD
PROF.	75	67.30	15 89.74%
VOLTAGE DROP: SEE MAP			
FLICKER FACTOR: SEE MAP			
PRI. CIRCUIT: AGATE 12kV			
D27: REV. 12/10/21			

SURVEYED  
DATE: 07/30/15

**WARNING:**  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATION.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.



INVENTORY MAPS:	
MT-2809-D2	
MT-2809-B4	
MT-2809-B2	
MT-2809-B3	
MT-2809-B1	
MT-2810-H3	
MT-2810-H1	
MT-2810-H2	
MT-2810-F4	
MT-2810-F3	
MT-2810-E4	
MT-2810-G2	
MT-2810-E4	
MT-2810-F1	
MT-2810-D3	
MT-2810-C4	
MT-2810-D1	
MT-2810-C2	

## FINAL DESIGN

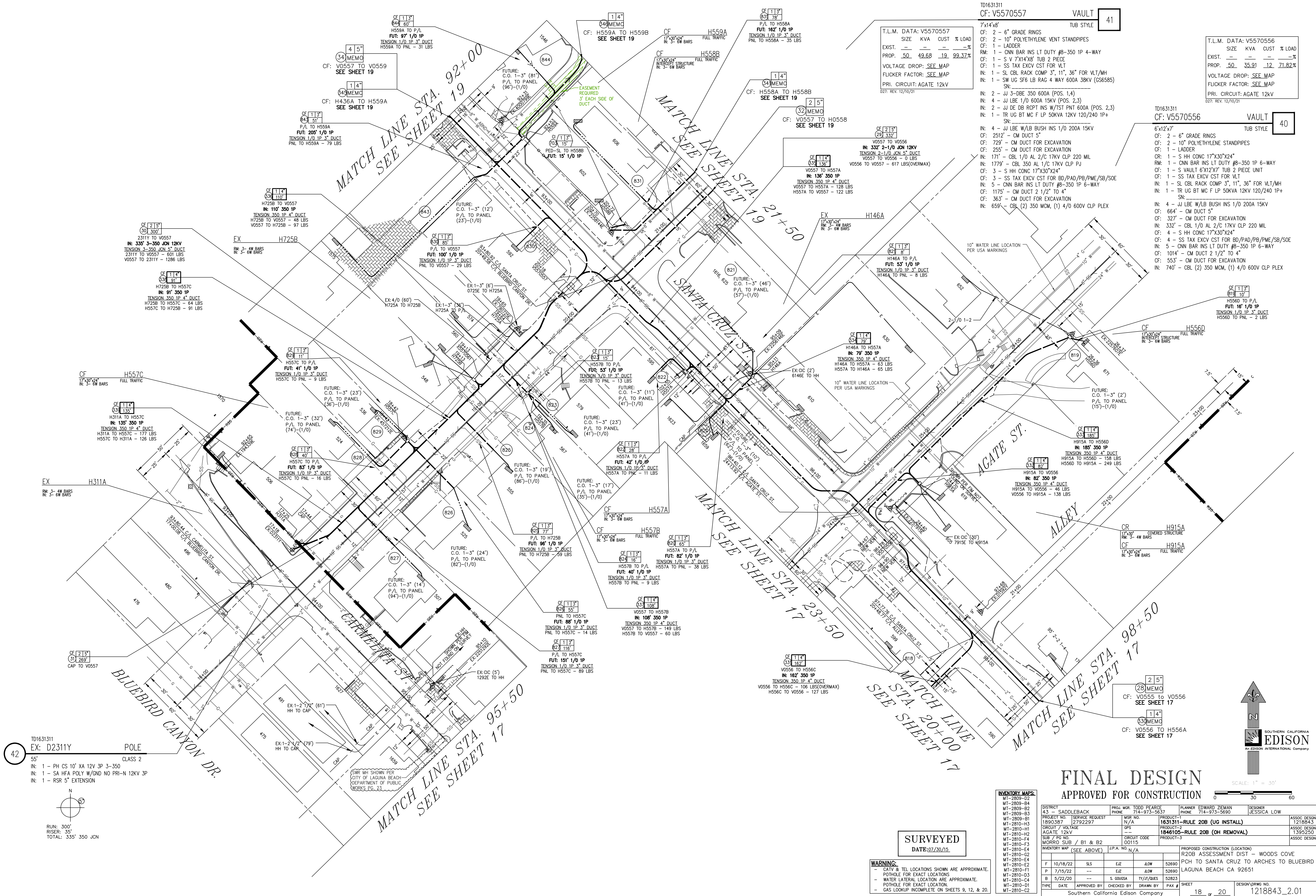
### APPROVED FOR CONSTRUCTION

DISTRICT 4.3 - SADDLEBACK		PROJ. MGR. TODD PEARCE PHONE 714-973-5637		PLANNER EDWARD ZIEMAN PHONE 714-973-5690		DESIGNER JESSICA LOW	
PROJECT NO. 1890387		SERVICE REQUEST 2792297		MSR NO. N/A		PRODUCT-1 1631311-RULE 20B (UG INSTALL)	
CIRCUIT / VOLTAGE AGATE 12kV		GPS		PRODUCT-2		1846105-RULE 20B (OH REMOVAL)	
SUB / PG NO. MORRO SUB / B1 & B2		CIRCUIT CODE 00115		PRODUCT-3			
INVENTORY MAP (SEE ABOVE)		J.P.A. NO. N/A		PROPOSED CONSTRUCTION (LOCATION)		R20B ASSESSMENT DIST - WOODS COVE	
F 10/18/22		SLS		E&Z		JLOW 52690	
P 7/15/22		--		E&Z		JLOW 52690	
B 5/22/20		--		S. GOMSA		TH/JT/QUES 52823	
TYPE		DATE		APPROVED BY		CHECKED BY	

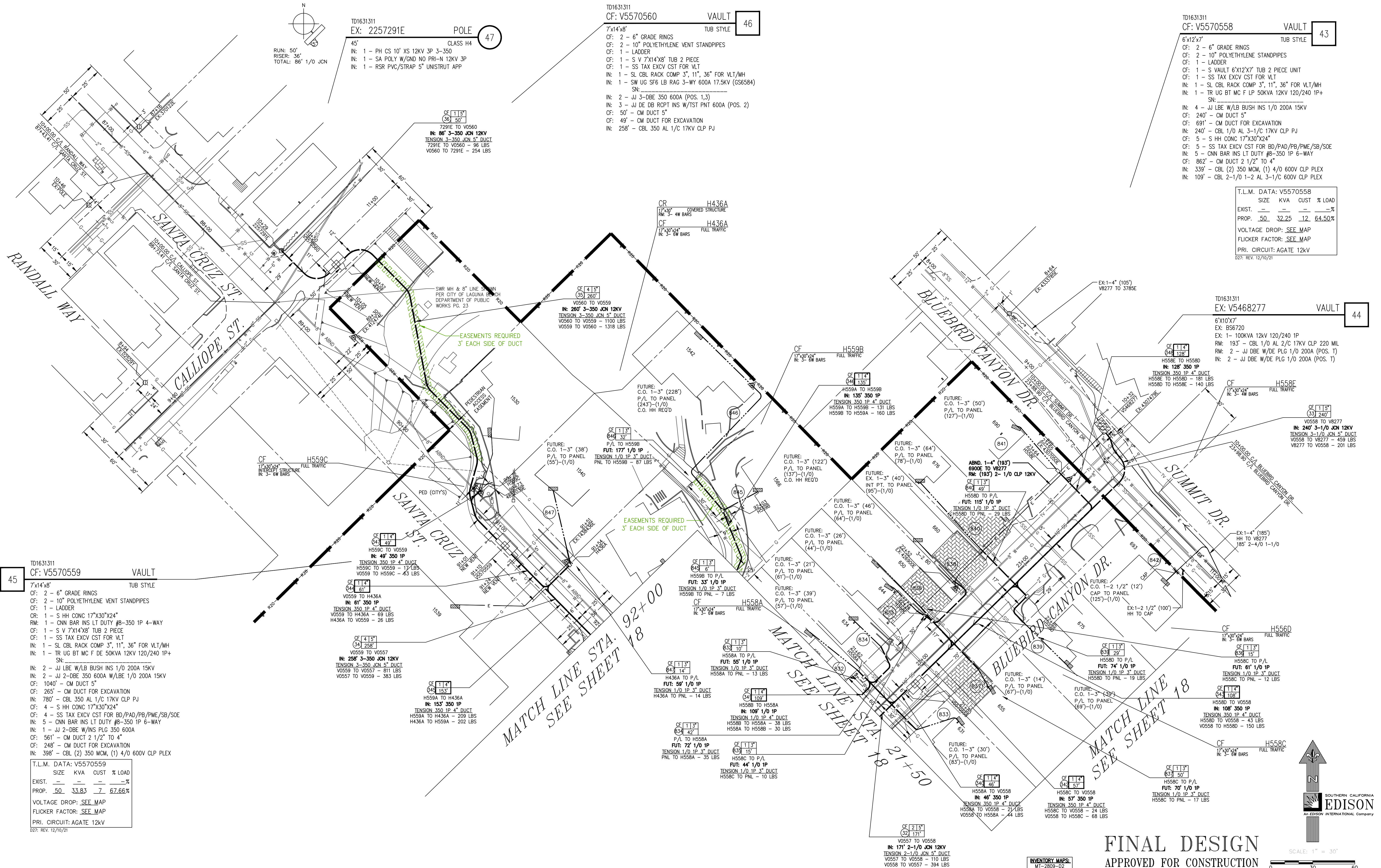












TD1631311  
CF: V5570559  
TUB STYLE  
7x14x8'  
CLASS H4  
POLE 45

CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE VENT STANDPIPES  
CF: 1 - LADDER  
CR: 1 - S HH CONC 17"x30"x24"  
RM: 1 - CNN BAR INS LT DUTY #8-350 1P 4-WAY  
CF: 1 - S V 7x14x8' TUB 2 PIECE  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F DE 50KVA 12KV 120/240 1P+  
SN:

IN: 2 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
IN: 2 - JJ 2-DBE 350 600A W/LBE 1/0 200A 15KV  
CF: 1040' - CM DUCT 5"  
CF: 265' - CM DUCT FOR EXCAVATION  
IN: 780' - CBL 350 AL 1/C 17KV CLP PJ  
CF: 4 - S HH CONC 17"x30"x24"  
CF: 4 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 5 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
IN: 1 - JJ 2-DBE W/INS PLG 350 600A  
CF: 561' - CM DUCT 2 1/2" TO 4"  
CF: 248' - CM DUCT FOR EXCAVATION  
IN: 398' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX

T.L.M. DATA: V5570559				
SIZE	KVA	CUST	%	LOAD
EXIST.	-	-	-	-
PROP.	50	33.83	7	67.66%

VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
D27: REV. 12/10/21

TD1631311  
CF: V5570560  
TUB STYLE  
7x14x8'  
CLASS H4  
POLE 46

CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE VENT STANDPIPES  
CF: 1 - LADDER  
CR: 1 - S V 7x14x8' TUB 2 PIECE  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - SW UG SF6 LB RAG 3-WY 600A 17.5KV (GS6584)  
SN:

IN: 2 - JJ 3-DBE 350 600A (POS. 1,3)  
IN: 3 - JJ DE DB RCPT INS W/TST PNT 600A (POS. 2)  
CF: 50' - CM DUCT 5"  
CF: 49' - CM DUCT FOR EXCAVATION  
IN: 258' - CBL 350 AL 1/C 17KV CLP PJ

TD1631311  
CF: V5570558  
TUB STYLE  
6x12x7'  
CLASS H4  
POLE 43

CF: 2 - 6" GRADE RINGS  
CF: 2 - 10" POLYETHYLENE STANDPIPES  
CF: 1 - LADDER  
CR: 1 - S VAULT 6x12x7' TUB 2 PIECE UNIT  
CF: 1 - SS TAX EXCV CST FOR VLT  
IN: 1 - SL CBL RACK COMP 3", 11", 36" FOR VLT/MH  
IN: 1 - TR UG BT MC F LP 50KVA 12KV 120/240 1P+  
SN:

IN: 4 - JJ LBE W/LB BUSH INS 1/0 200A 15KV  
CF: 240' - CM DUCT 5"  
CF: 691' - CM DUCT FOR EXCAVATION  
IN: 240' - CBL 1/0 AL 3-1/C 17KV CLP PJ  
CF: 5 - S HH CONC 17"x30"x24"  
CF: 5 - SS TAX EXCV CST FOR BD/PAD/PB/PME/SB/SOE  
IN: 5 - CNN BAR INS LT DUTY #8-350 1P 6-WAY  
CF: 862' - CM DUCT 2 1/2" TO 4"  
IN: 339' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX  
IN: 109' - CBL 2-1/0 1-2 AL 3-1/C 600V CLP PLEX

T.L.M. DATA: V5570558				
SIZE	KVA	CUST	%	LOAD
EXIST.	-	-	-	-
PROP.	50	32.25	12	64.50%

VOLTAGE DROP: SEE MAP  
FLICKER FACTOR: SEE MAP  
PRI. CIRCUIT: AGATE 12KV  
D27: REV. 12/10/21

TD1631311  
EX: V5468277  
TUB STYLE  
6x10x7'  
CLASS H4  
POLE 44

EX: B56720  
RM: 1- 100KVA 12KV 120/240 1P  
RM: 193' - CBL 1/0 AL 2/C 17KV CLP 220 MIL  
RM: 2 - JJ DBE W/DE PLG 1/0 200A (POS. T)  
IN: 2 - JJ DBE W/DE PLG 1/0 200A (POS. T)

MATCH LINE STA. 92+00  
SEE SHEET 18

MATCH LINE STA. 21+50  
SEE SHEET 18

MATCH LINE STA. 18  
SEE SHEET 18

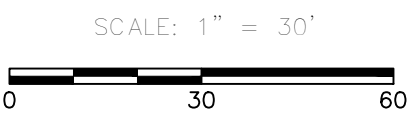
SURVEYED  
DATE: 07/30/15

WARNING:  
- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE.  
- POT HOLE FOR EXACT LOCATIONS  
- WATER LATERAL LOCATION ARE APPROXIMATE.  
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20.

INVENTORY MAPS:	
MT-2809-D2	MT-2809-B4
MT-2809-B2	MT-2809-B3
MT-2809-B1	MT-2810-H3
MT-2810-H1	MT-2810-H2
MT-2810-F4	MT-2810-F3
MT-2810-E4	MT-2810-E2
MT-2810-E1	MT-2810-D3
MT-2810-D1	MT-2810-C4
MT-2810-C1	MT-2810-C2

## FINAL DESIGN APPROVED FOR CONSTRUCTION

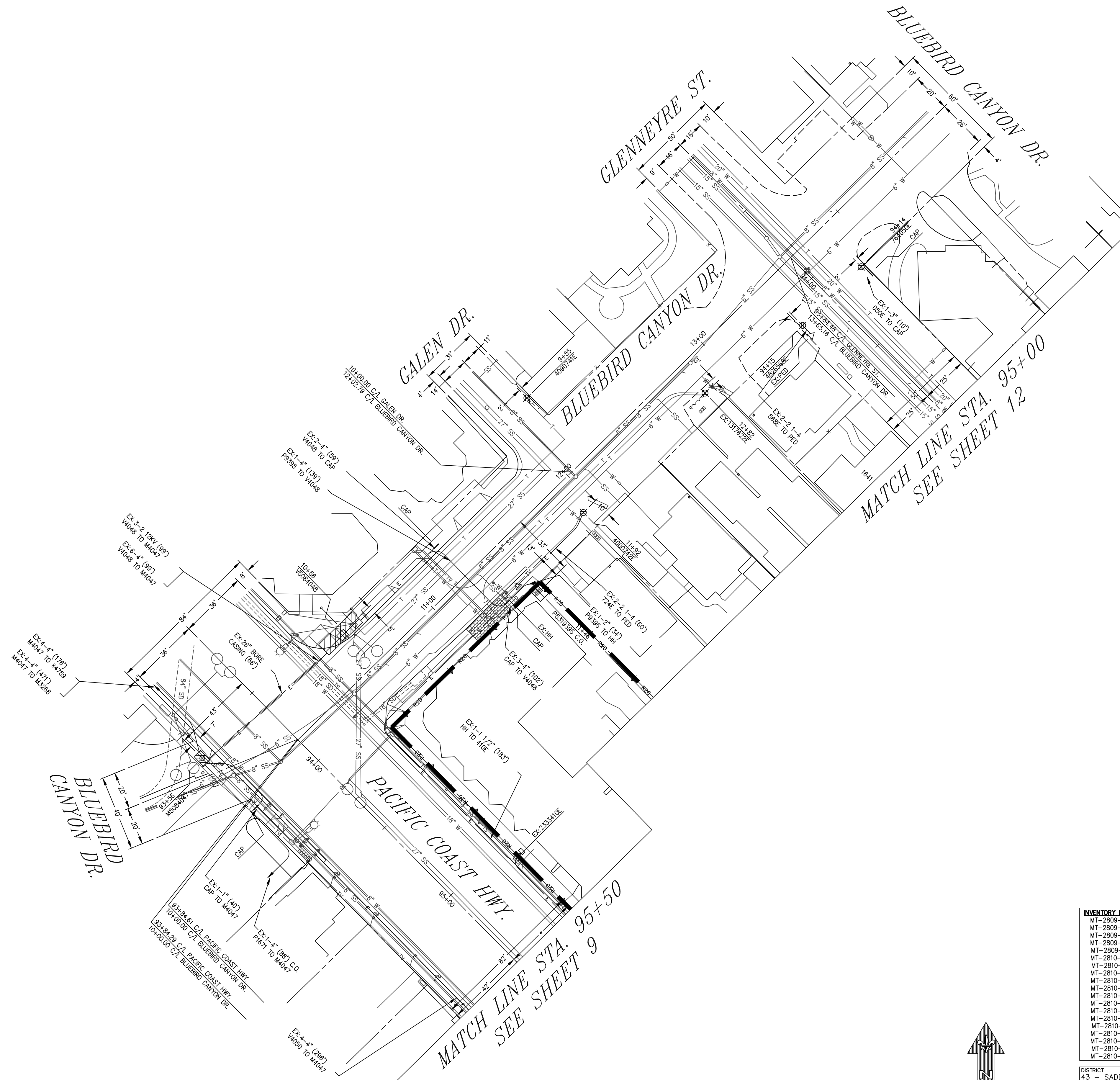
DISTRICT 4.3 - SADDLEBACK	PROJ. MGR. TODD PEARCE PHONE 714-973-5637	PLANNER EDWARD ZIEMAN PHONE 714-973-5690	DESIGNER JESSICA LOW
PROJECT NO. 1890387	SERVICE REQUEST 2792297	MSR NO. N/A	PRODUCT-1 1631311-RULE 20B (UG INSTALL)
CIRCUIT / VOLTAGE AGATE 12KV	PRODUCT-2 1846105-RULE 20B (OH REMOVAL)	GPS N/A	ASSOC DESIGN 1218843
SUB / PG NO. MORRO SUB / B1 & B2	CIRCUIT CODE 00115	PRODUCT-3 N/A	ASSOC DESIGN 1395260
INVENTORY MAP (SEE ABOVE)	J.P.A. NO. N/A	PROPOSED CONSTRUCTION (LOCATION) R20B ASSESSMENT DIST - WOODS COVE	ASSOC DESIGN 1395260
F 10/18/22	SLS	E&Z	JOW 52690
P 7/15/22	--	E&Z	JOW 52690
B 5/22/20	--	S. GOMAS	TY/JT/QDS 52823
TYPE	DATE	APPROVED BY	CHECKED BY
Southern California Edison Company		19	20
		DESIGN/DRWG NO. 1218843_2.01	





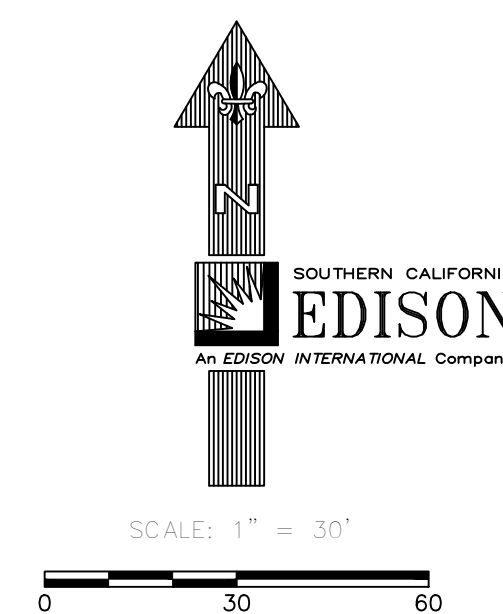
FOR REFERENCE ONLY

**SURVEYED**  
**DATE:** 10/21/13



**WARNING:**

- CATV & TEL LOCATIONS SHOWN ARE APPROXIMATE. POTHOLE FOR EXACT LOCATIONS
- WATER LATERAL LOCATION ARE APPROXIMATE. POTHOLE FOR EXACT LOCATION.
- GAS LOOKUP INCOMPLETE ON SHEETS 9, 12, & 20



**INVENTORY MAINTENANCE**  
MT-2809-D2  
MT-2809-B4  
MT-2809-B3  
MT-2809-B3  
MT-2810-H3  
MT-2810-H3  
MT-2810-H2  
MT-2810-F4  
MT-2810-F3  
MT-2810-E4  
MT-2810-G2  
MT-2810-E4  
MT-2810-E2  
MT-2810-F2  
MT-2810-D3  
MT-2810-C4  
MT-2810-D1  
MT-2810-C2

FINAL DESIGN  
APPROVED FOR CONSTRUCTION

DISTRICT 43 - SADDLEBACK		PHOL MFR: TODD PEARCE 174-973-5637		PLANNER EDWARD JEWAN 721-737-5690		DESSNER JESSICA LOW	
PROJECT NO. SERVICE REQUEST 1890387 2792927		MFR NO. N/A		PRODUCT-1 16331--RULE 20B (UG INSTALL)		ASSOC DESIGN 1218843	
CREDIT / VOLTAGE AGATE 12KV		MFR GPS		PRODUCT-3 1846105--RULE 20B (OH REMOVAL)		ASSOC DESIGN 1395250	
SUB / PG NO. MORRO SUB / B1 & B2		CIRCUIT CODE 00115		PRODUCT-3		ASSOC DESIGN	
INVENTORY MAP (SEE ABOVE)		U.P.A. NO. N/A					
PROPOSED CONSTRUCTION (LOCATION) 2080B ASSESSMENT DIST - WOODS COVE PCH TO SANTA CRUZ TO ARCHES TO BLUEBIRD LAGUNA BEACH CA 92651							
F	10/18/22	SLS	EJZ	JLOW	52690		
P	7/15/22	--	EJZ	JLOW	52690		
B	5/22/20	--	S. GOUSSA	TY/TJ/QUES	52823		
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN/VRWG NO.
Southern California Edison Company						20 of 20	1218843_2.01