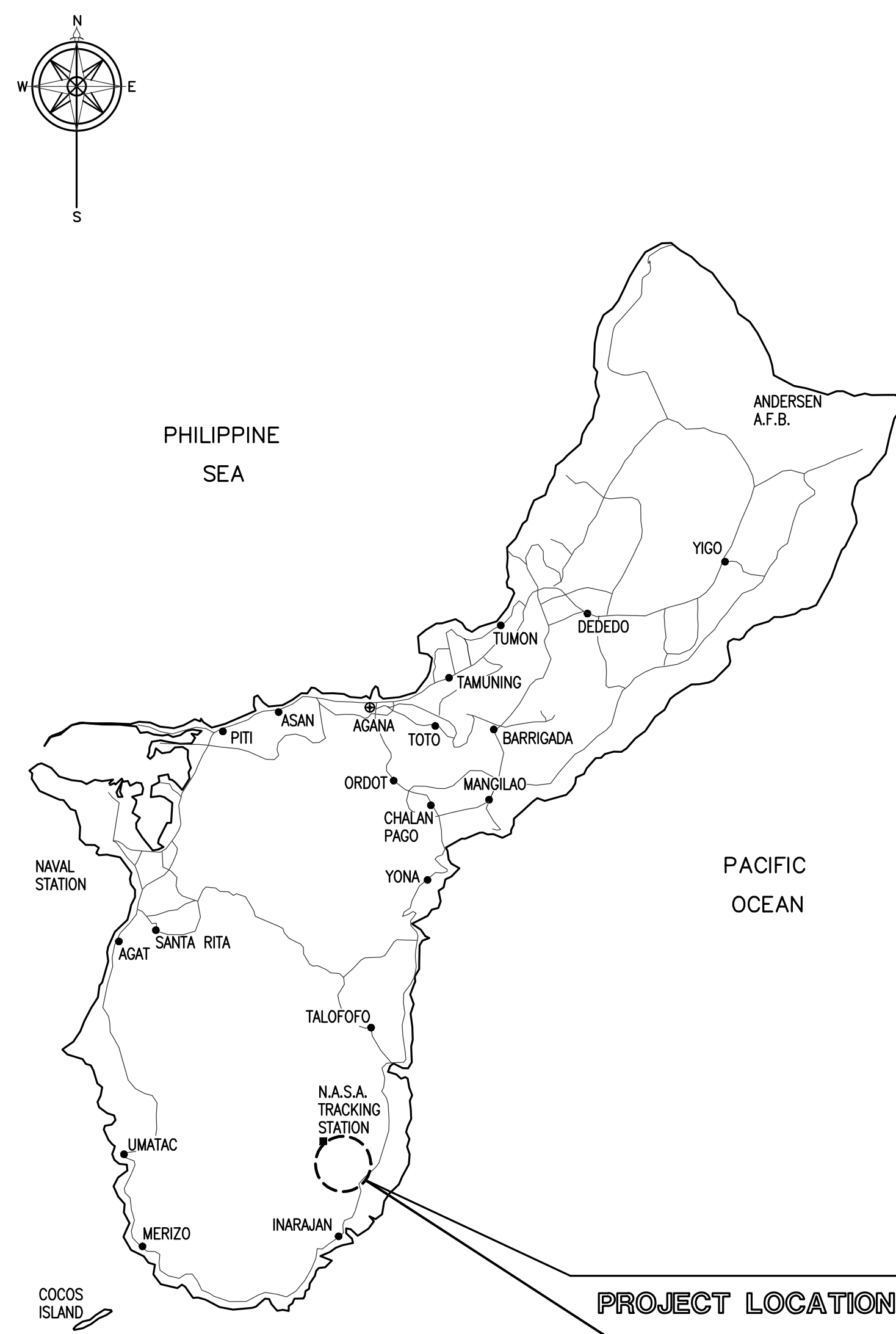


# 34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN, TALOFOFO, GUAM

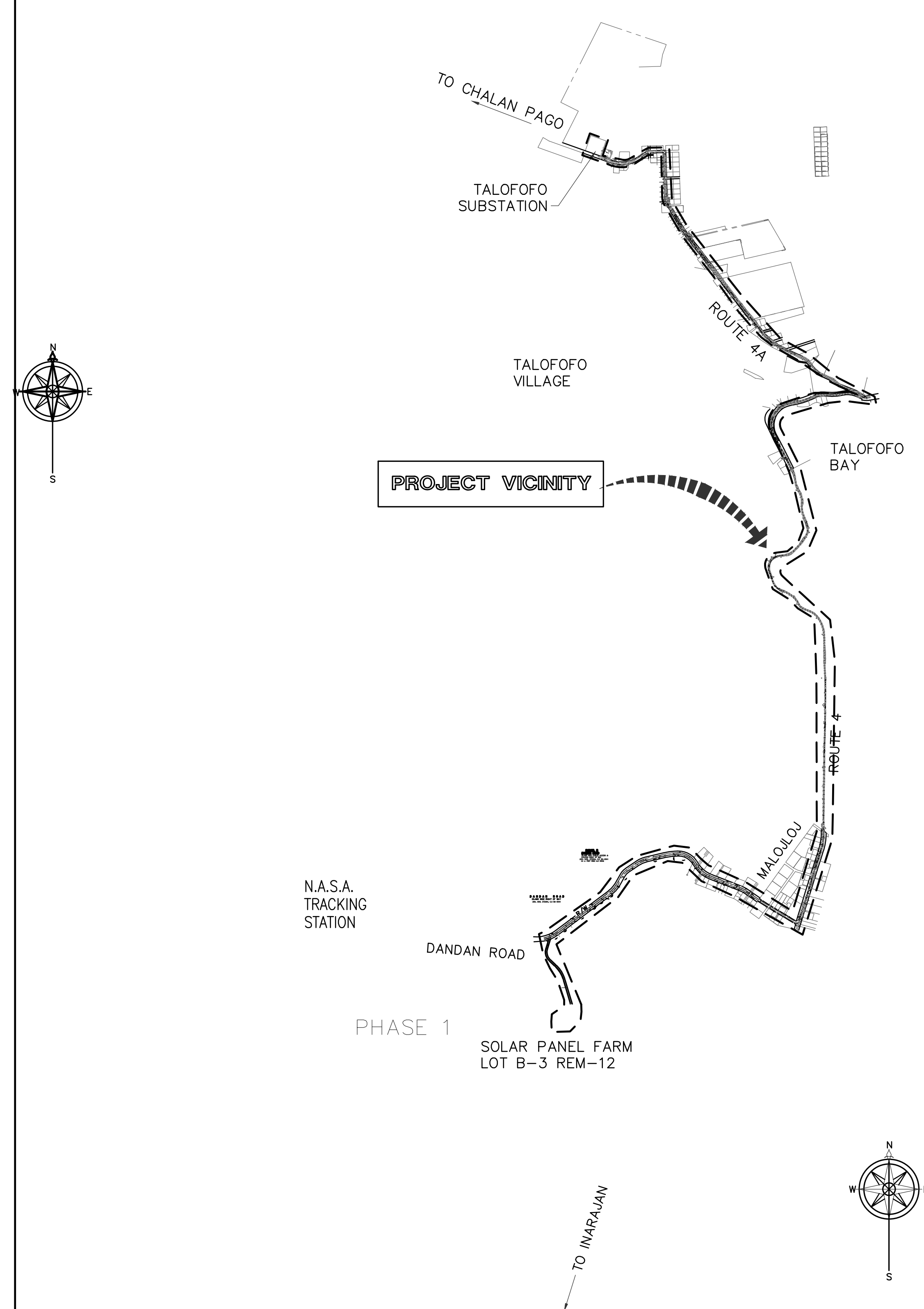
AS-BUILT MARKUPS PREPARED BY NRC/ICC ON 8/22/15 AND SUPPLEMENTED BY TG ENGINEERS, PC DURING SEPTEMBER AND OCTOBER 2015 BASED ON FIELD VERIFICATION AND TOPOGRAPHIC AS-BUILT SURVEY OF SURFACE IMPROVEMENTS (PAVEMENT RESTORATION AND MANHOLE AND HANDHOLE LOCATIONS).

## LOCATION MAP



ISLAND of GUAM

## VICINITY MAP

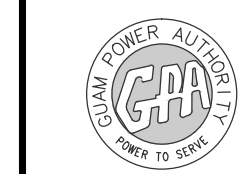


## DRAWING INDEX

SHEET. NO.	DWG. NO.	DESCRIPTION	SHEET. NO.	DWG. NO.	DESCRIPTION
1 OF 47	T100	TITLE SHEET, LOCATION MAP, VICINITY MAP AND DRAWING INDEX	29 OF 47	C300	GENERAL EROSION CONTROL NOTES AND DETAILS
2 OF 47	T101	GENERAL NOTES, ABBREVIATIONS, LEGEND AND SYMBOLS	30 OF 47	C400	TRAFFIC CONTROL DETAILS
3 OF 47	C001	OVERALL SITE PLAN	31 OF 47	C401	TRAFFIC CONTROL DETAILS
4 OF 47	C100	ROAD/BRIDGE SECTIONS	32 OF 47	C500	DUCT & TRENCH DETAILS
5 OF 47	C110	TRANSMISSION LINE ALIGNMENT TABLE AND MANHOLE DATA	33 OF 47	C501	MANHOLE DETAILS
6 OF 47	C200	T-LINE PLAN AND PROFILE (MH1 TO MH2)	34 OF 47	C502	MANHOLE DETAILS
7 OF 47	C201	T-LINE PLAN AND PROFILE (MH3 TO MH4)	35 OF 47	C600	ROAD RESTORATION DETAILS
8 OF 47	C202	T-LINE PLAN AND PROFILE (MH5)	36 OF 47	C601	TELEPHONE DETAILS
9 OF 47	C203	T-LINE PLAN AND PROFILE (MH6)	37 OF 47	E100	MANHOLE AND DUCT SYSTEM DIAGRAM AND SPLICE DETAIL
10 OF 47	C204	T-LINE PLAN AND PROFILE (MH7 TO MH8)	38 OF 47	E101	MANHOLE AND DUCT SYSTEM DIAGRAM
11 OF 47	C205	T-LINE PLAN AND PROFILE (MH9 TO MH10)	SHOP DRAWINGS		
12 OF 47	C206	T-LINE PLAN AND PROFILE (MH11)	39 OF 47	SD-1	BRIDGE PLAN AND PROFILE
13 OF 47	C207	T-LINE PLAN AND PROFILE (MH12)	40 OF 47	SD-2	ENLARGED PLAN AND PROFILE
14 OF 47	C208	T-LINE PLAN AND PROFILE (MH13 TO MH14)	41 OF 47	SD-3	ENLARGED PLAN AND PROFILE
15 OF 47	C209	T-LINE PLAN AND PROFILE (MH15)	42 OF 47	SD-4	BRIDGE ATTACHMENT DETAILS
16 OF 47	C210	T-LINE PLAN AND PROFILE (MH16 TO MH17)	43 OF 47	P-1.0	TITLE, GENERAL NOTE
17 OF 47	C211	T-LINE PLAN AND PROFILE (MH18)	44 OF 47	P-2.0	6W X 11L X 9D PRECAST MANHOLE
18 OF 47	C212	T-LINE PLAN AND PROFILE (MH19 TO MH20)	45 OF 47	P-3.0	6W X 11L X 9D PRECAST MANHOLE
19 OF 47	C213	T-LINE PLAN AND PROFILE (MH21)	46 OF 47	P-4.0	6W X 11L X 9D PRECAST MANHOLE
20 OF 47	C214	T-LINE PLAN AND PROFILE (MH22 TO MH23)	47 OF 47	X1.0	MANHOLE 6W X 11L X 9D CABLE ROUTE SCHEMATIC
21 OF 47	C215	T-LINE PLAN AND PROFILE (MH24)			
22 OF 47	C216	T-LINE PLAN AND PROFILE (MH25 TO MH26)			
23 OF 47	C217	T-LINE PLAN AND PROFILE (MH27)			
24 OF 47	C218	T-LINE PLAN AND PROFILE (MH28)			
25 OF 47	C219	T-LINE PLAN AND PROFILE (MH29 TO MH30)			
26 OF 47	C220	T-LINE PLAN AND PROFILE (MH31 TO MH32)			
27 OF 47	C221	T-LINE PLAN AND PROFILE (MH33)			
28 OF 47	C222	T-LINE PLAN AND PROFILE (MH34 TO MH35)			

AS-BUILT  
NOVEMBER 04, 2015

**TG ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tamuning, Agaña, Guam 96913-3023  
Tel: (671) 941-0808 Fax: (671) 941-0888



**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

DRAWING NO: 001-14-001		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE	CHECKED BY: JA/RJ	DATE: 11/04/2015	SCALE: AS NOTED
SHEET TITLE: TITLE SHEET, LOCATION & VICINITY MAP AND SHEET INDEX		JOB ORDER NO: 100143	SHEET NO: 1 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	

T100

**GENERAL NOTES**

1. SURVEY NOTES:
  - 1.1 THE TOPOGRAPHIC SURVEY WAS PERFORMED BY TG ENGINEERS, PC FROM NOVEMBER TO JANUARY 2014.
    - SURVEY WAS BASED ON GON 2205, NS87195.02 E 332811.62 EL=344.39 & GON 2216, NS85755.95 E330882.54 EL=0.00
    - SURVEY BEARINGS ARE IN 1983 GRID AND FIELD CONDITIONS.
    - ALL DISTANCES, DIMENSIONS, COORDINATES, AND ELEVATIONS ARE IN FEET AND DECIMALS THEREOF.
2. CONSTRUCTION STAKING SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL SURVEYOR ON GUAM.
3. THE CONTRACTOR SHALL REVIEW TO ENSURE ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ADDITIONAL PERMITS AS NECESSARY.
4. CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE FEDERAL AND LOCAL LAWS, CODES, ORDINANCES AND OTHER REGULATIONS OF THE GOVERNMENT OF GUAM AND APPROPRIATE AGENCIES.
5. ELECTRICAL WORK AND MATERIALS IN ACCORDANCE WITH NEC & NESC LATEST EDITION.
6. COPY OF THE APPROVED CONSTRUCTION PLANS SHALL BE ON THE JOB SITE WHEN CONSTRUCTION IS IN PROGRESS.
7. A DRAFT GEOTECHNICAL REPORT WAS COMPLETED BY GEO-ENGINEERING & TESTING INC., TITLED "GEOTECHNICAL INVESTIGATION NRG DANDAN SOLAR POWER GENERATING PLANT", AND DATED MARCH 31, 2014.
8. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BRING ANY DISCREPANCIES ON THE DRAWINGS AND DOCUMENTS TO THE ATTENTION OF THE ENGINEER (OWNER'S ENGINEER & GPA) PRIOR TO UNDERTAKING THE AFFECTED WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING WORK ON, ABOVE, OR BELOW CUT SLOPES.
10. CONTRACTOR TO REFER TO THE PROJECT TECHNICAL SPECIFICATIONS, ENVIRONMENTAL PROTECTION AND EROSION AND SEDIMENT CONTROL PLAN (EPP/ECP) FOR ADDITIONAL EROSION CONTROL DETAILS.
11. THE CONTRACTOR SHALL PRESERVE THE STREETS AND OTHER PUBLIC RIGHT OF WAY IN A CLEAN, SAFE, AND USABLE CONDITION. SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DAILY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. DAMAGE TO PUBLIC FACILITIES AND/OR PRIVATE PROPERTY DUE TO CONTRACTUAL WORK SHALL BE REPAIRED AT NO COST TO THE OWNER OR GPA.
12. REFER TO SHEET CO.1 OF NRG SOLAR DANDAN PHASE 1 AND 2 PACKAGE FOR WETLANDS IN THE VICINITY OF THE PROJECT.
13. FOR THE TRANSMISSION LINE ONE LINE DIAGRAM SEE SHEET E100
14. FOR DANDAN AND TALOFOFO SUBSTATION DRAWINGS, REFER TO NEW DANDAN SUBSTATION AND TALOFOFO SUBSTATION SITE EXPANSION PLANS.
15. CONTRACTOR SHALL COORDINATE WITH GPA, GTA, GWA AND OTHER ENTITIES REGARDING EXISTING UNDERGROUND LINES ALONG THE NEW UNDERGROUND ROUTING PRIOR TO EXCAVATION. ANY DAMAGE DONE DURING THE CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER OR GPA.
16. UPON COMPLETION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS DEPICTING ACTUAL CONSTRUCTION DETAILS SUCH AS MANHOLE COORDINATES AND SPAN LENGTHS.
17. CERTAIN AREAS ALONG THE PROJECT ROUTE HAVE LIMITED WORK SPACE CRANE SETUP AND SETTING OF MANHOLES WILL REQUIRE POWER OUTAGES. CONTRACTOR SHALL COORDINATE, SCHEDULE AND OBTAIN WRITTEN PERMISSION FROM GPA, AT LEAST TWO (2) WEEKS IN ADVANCE PRIOR TO ALL REQUESTED POWER SUBSTATION WORK AND/OR OUTAGES.

**LEGEND AND SYMBOLS**

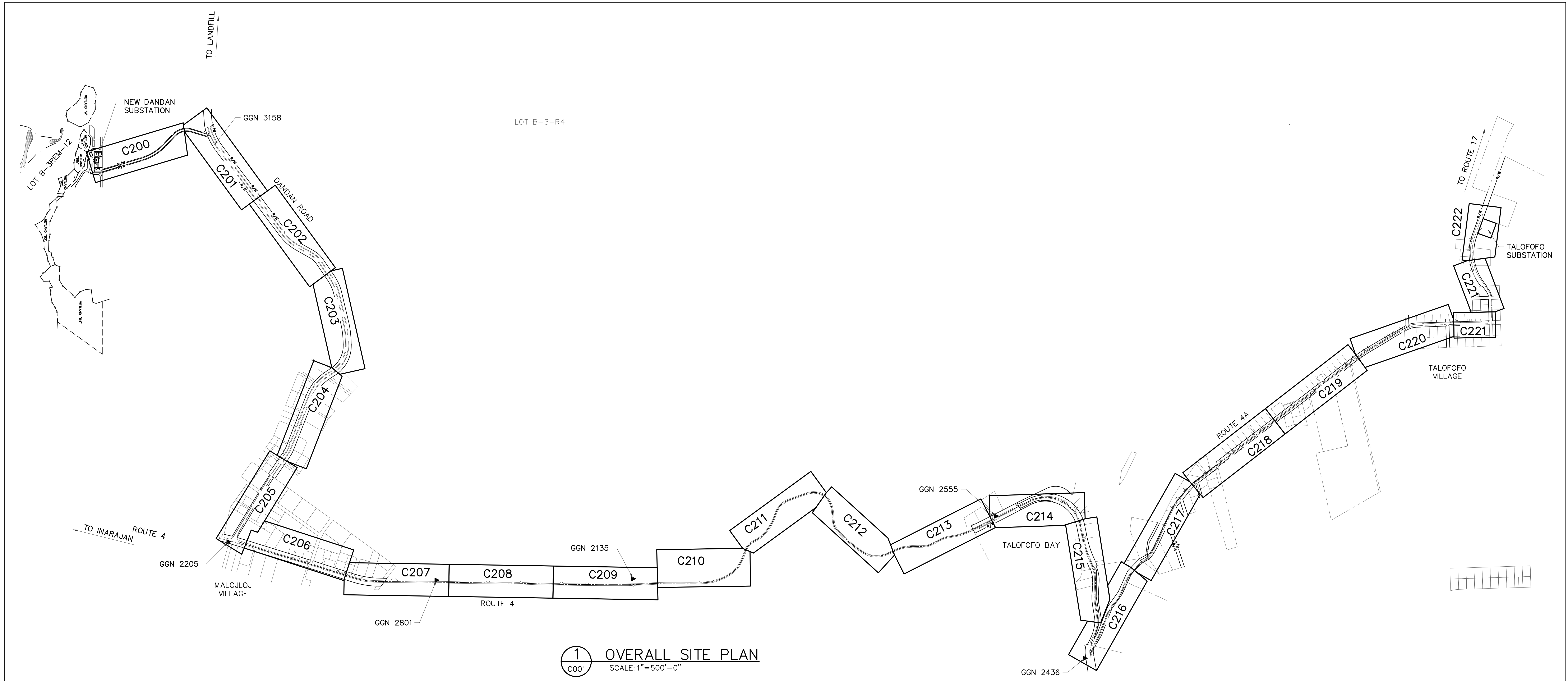
EXISTING		NEW	
	RIGHTS OF WAY		SILTS FENCE
	CONTOUR LINE		UNDERGROUND TRANSMISSION LINE - TRENCHLESS BORE
	COMMUNICATION LINE		UNDERGROUND TRANSMISSION LINE - OPEN TRENCH
	SEWERLINE		PROPOSED R/W PER MASTER PLAN
	WATERLINE		PRIMARY MANHOLE
	FORCE MAIN LINE		TOP - DETAIL NUMBER
	U/G POWER LINE		BOTTOM - SHEET NUMBER
	CHAINLINK FENCE		RACEWAY SECTION
	GUARD RAIL		BRIDGE ATTACHMENT
	PROPERTY LINE		
	CONCRETE POWER POLE		
	LIGHT POLE		
	TELEPHONE PEDESTAL		
	ROAD SIGN		
	SEWER MANHOLE		
	SPOT ELEVATION		
	WATER GATE VALVE		
	FIRE HYDRANT		
	WATER METER		
	SANITARY CLEAN OUT		
	PRIMARY ELECTRICAL MANHOLE		
	SECONDARY ELECTRICAL MANHOLE		
	COMMUNICATION BURIED MARKER		
	CONTROL POINT		
	GGN TRIANGULATION STATION		
	PALM TREE		
	COCONUT TREE		
	TREE		

**ABBREVIATIONS**

@	AT	MH	MANHOLE
&	AND	MAX	MAXIMUM
ADA	AMERICAN DISABILITIES ACT	MDD	MAXIMUM DRY DENSITY
AC	ASPHALT CONCRETE	MIN	MINIMUM
ALUM	ALUMINUM	N	NORTH/NORTHING
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ARCH'L	ARCHITECTURAL	NPS	NOMINAL PIPE SIZE
BLDG	BUILDING	NTS	NOT TO SCALE
BMP	BEST MANAGEMENT PRACTICE	OC	ON CENTER
BOT	BOTTOM	PC	POINT OF CURVATURE
CL	CENTER LINE	PERC	PERCOLATION
CONC	CONCRETE	PI	POINT OF INTERSECTION
CP	CONTROL POINT	POB	POINT OF BEGINNING
CPP	CONCRETE POWER POLE	PSI	POUND PER SQUARE INCH
CY	CUBIC YARD	PVI	POINT OF VERTICAL INTERSECTION
Ø	DIAMETER	PVMT	PAVEMENT
DWGS	DRAWINGS	PT	POINT/POINT OF TANGENCY
E	EASTING/EAST	#, NO.	NUMBER
(E)	EXISTING	R	RADIUS
EG	EXISTING GRADE	RD	ROAD
EL, ELEV	ELEVATION	RT	RIGHT
EOP	EDGE OF PAVEMENT	R/W, ROW	RIGHTS OF WAY
FFE	FINISH FLOOR ELEVATION	S	SOUTH
FL	FLOW LINE	SCO	SANITARY CLEAN OUT
FM	FORCE MAIN	SF	SILTS FENCE
FH	FIRE HYDRANT	SL	SEWER LINE
FG	FINISH GRADE	SS	SANITARY SEWER
' OR FT	FOOT, FEET	SSFM	SANITARY SEWER FORCE MAIN
GALV	GALVANIZE	STD	STANDARD
GB	GRADE BREAK	SQ	SQUARE
GGN	GUAM GEODETIC NETWORK	TEL	TELEPHONE
GV	GATE VALVE	THK	THICK
HB	HOSE BIB	TOPO	TOPOGRAPHIC
HORIZ., HOR.	HORIZONTAL	TYP	TYPICAL
HP	HIGH POINT	U/G	TYPICAL
"	INCH	UNO	UNLESS NOTED OTHERWISE
INV	INVERT	VERT, VER	VERTICAL
INT	INTERSECTION	WWF	WELDED WIRE FABRIC
LP	LOW POINT, LIGHT POLE	W/	WITH
L	LEFT	WM	WATER METER
K	RATE OF VERTICAL CURVATURE	WV	WATER VALVE
M	METER	XFMR	TRANSFORMER

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TG ENGINEERS, PC</b> <small>CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT &amp; LAND SURVEYING</small> <small>125 Tula Hevia Circle, Suite 300 Tupelo, MS 38801-5023 email: t.berg@tg-engr.com tel: (677)943-0800 fax: (677)943-0886</small>		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	<b>GRAPHIC SCALE</b>		DRAWING NO: 001-14-002 34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE		SHEET TITLE: GENERAL NOTES, ABBREVIATIONS, LEGEND AND SYMBOLS		
DRAWN: JA/RJ		CHECKED BY: TG/JE		
DATE: 11/04/2015		JOB ORDER NO: 100143	SCALE: AS NOTED	SHEET NO: 2 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		DATE:		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		DATE:		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.

**T101**

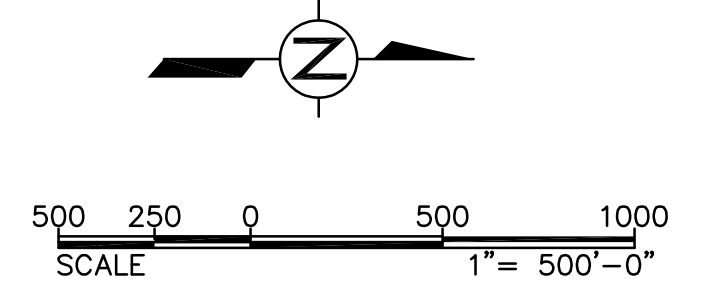


1 OVERALL SITE PLAN  
 C001 SCALE: 1"=500'-0"

NOTES:

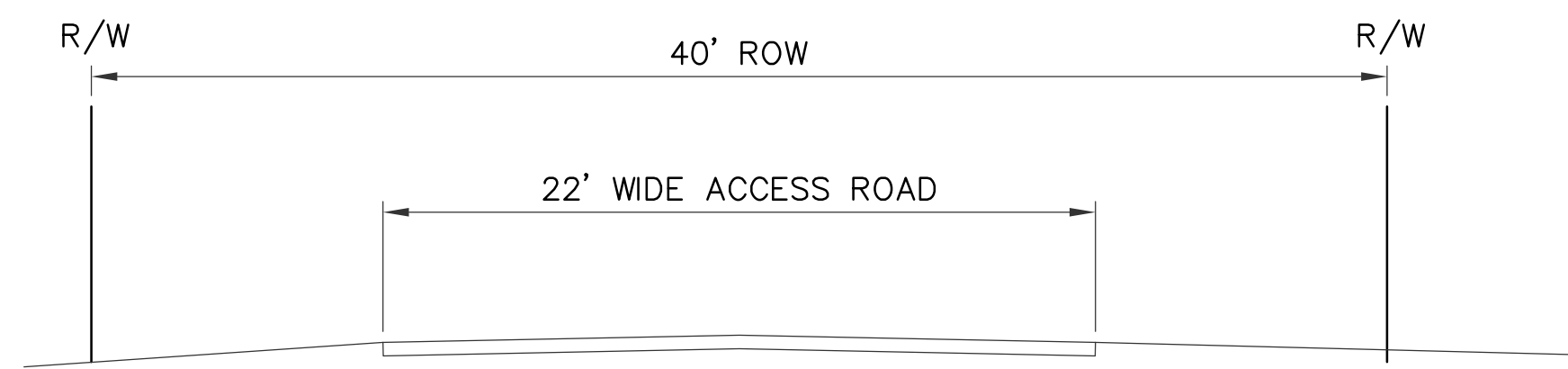
- SURVEY WAS BASED ON GGNS WITH NGS GUV04 ELEVATION
- ALL DISTANCES ARE IN FEET UNLESS OTHERWISE NOTED.
- SURVEY ARE 1993 GRID AND FIELD CONDITIONS.
- BEARINGS & DISTANCES IN PARENTHESIS ARE 1963 RECORD DATA  
 BEARINGS & DISTANCES IN BRACKET ARE 1945 RECORD DATA  
 ALL OTHER ARE 1993 RECORD DATA, UNLESS OTHERWISE NOTED.
- GGN 3158 FIELD ADJUSTED N 587033.411 E 327877.597  
 ELEVATION = 325.30.

GGN	NORTHING	EASTING	ELEVATION	(GUV04)
2135	592236.463	333272.874	242.69	(TW0367)
2205	587195.019	332811.620	344.39	(DH3017)
2436	597863.302	334263.602	143.98	(DH3061)
2555	596753.200	332492.303	8.69	(DH3034)
2801	589786.642	333289.904	313.82	(DH3053)
3158 DLM	587027.451	327881.220	325.30	SEE
3158 FIELD	587033.411	327877.597	325.30	NOTE 5



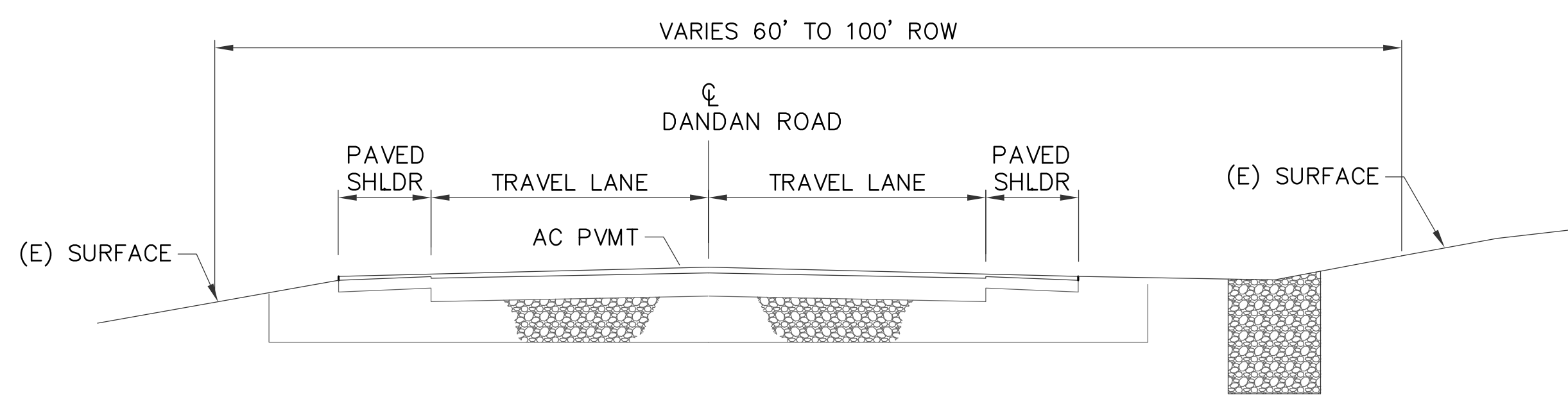
C001

AS-BUILT NOVEMBER 04, 2015	<b>TG ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING <small>125 Tui Avea, Suite 501          Agaña, Guam 96913-3023          email: tge@tg-engr.com          Tel: (671)847-0800 Fax: (671)847-0886</small>	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910			
		DRAWING NO: 001-14-003 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE	34.5-kV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.		DATE:	
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.		DATE:	



T-LINE INSIDE 22' WIDE ROAD (RT)

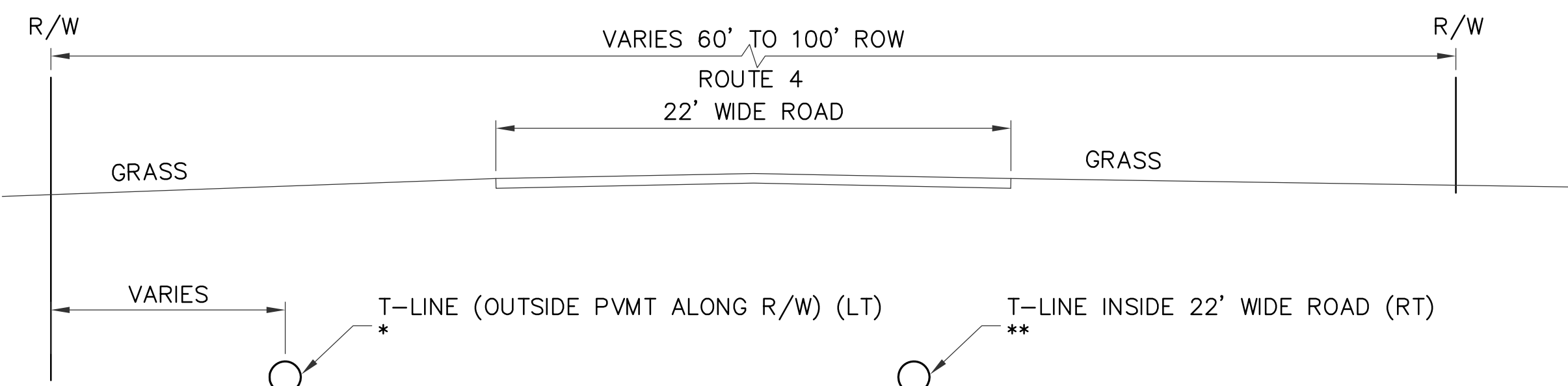
**1 MH1 TO MH3**  
C100 NTS 9+77 TO 25+64



(E) 12" WATERLINE  
(E) SEWER LINE  
(E) COM, SECONDARY, STREETLIGHT DUCT BANK  
(E) POWER DUCT BANK

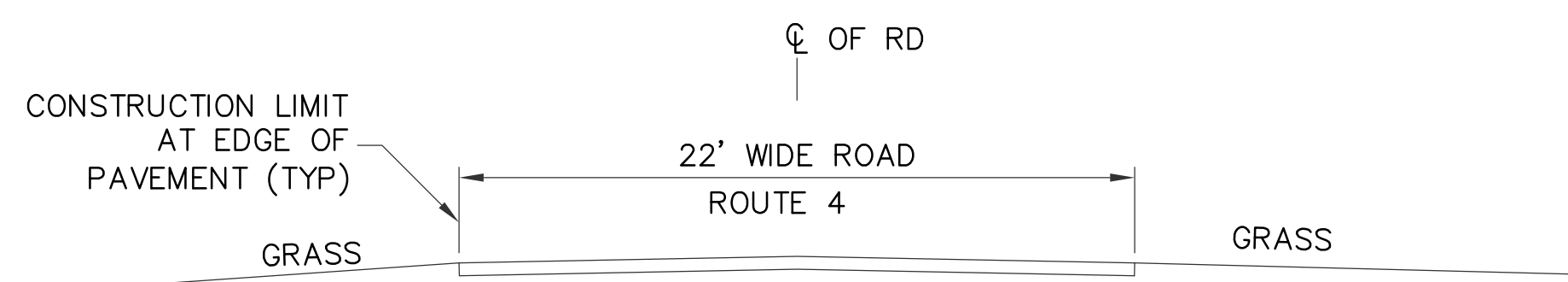
T-LINE OUTSIDE PAVEMENT (LT)

**2 MH3 TO MH10**  
C100 NTS 25+64 TO 86+65



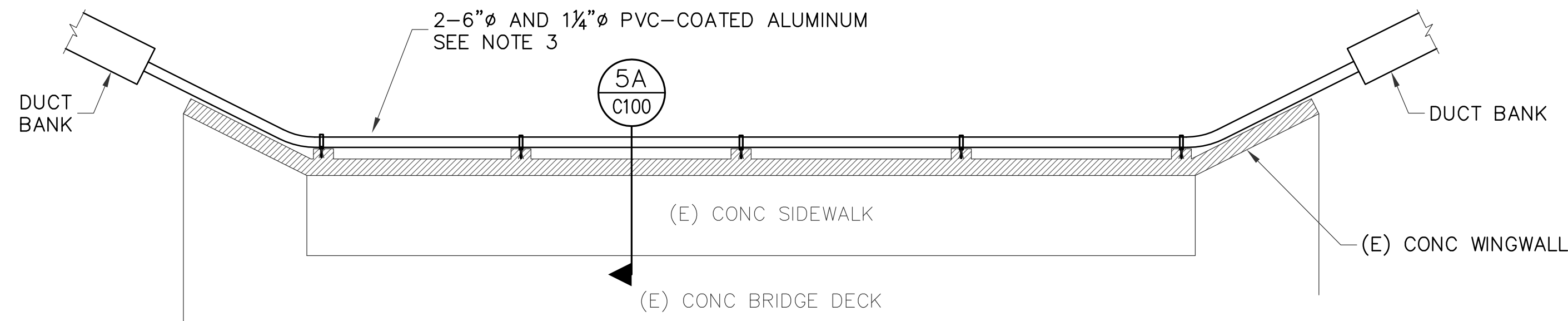
T-LINE (OUTSIDE PVMT ALONG R/W) (LT)  
T-LINE INSIDE 22' WIDE ROAD (RT)

**3 MH10 TO MH12**  
C100 NTS \* 86+65 TO 103+79  
\*\* 103+79 TO 106+14

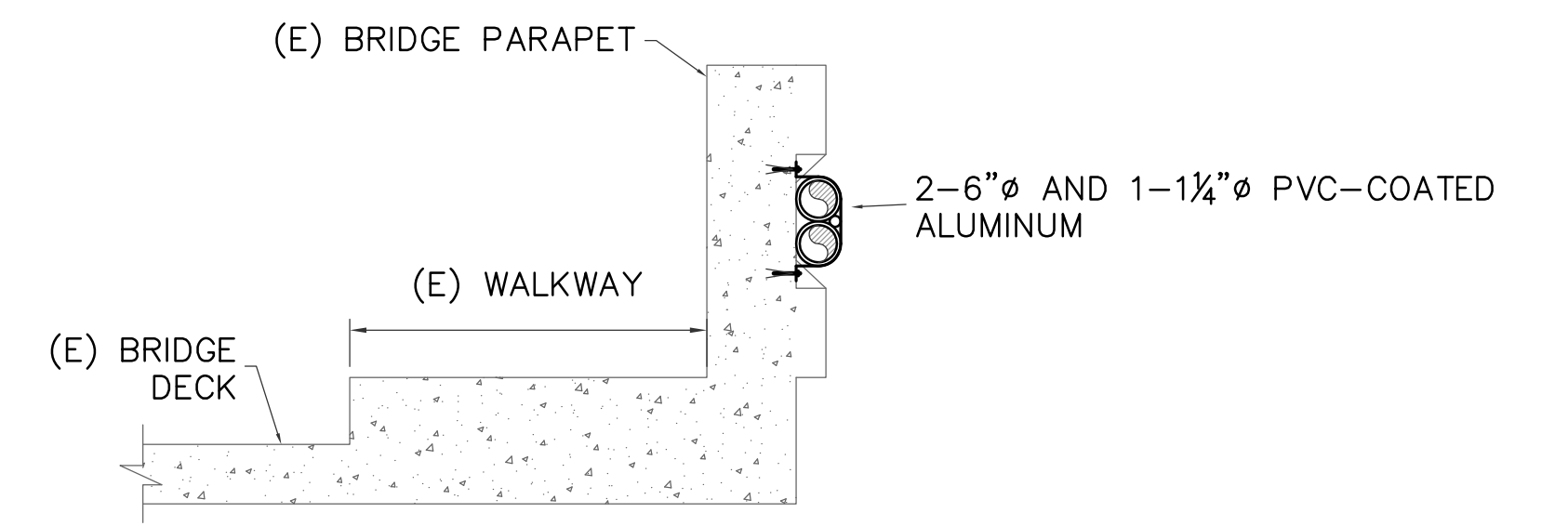


T-LINE INSIDE 22' WIDE ROAD (LT)  
T-LINE INSIDE 22' WIDE ROAD (RT)

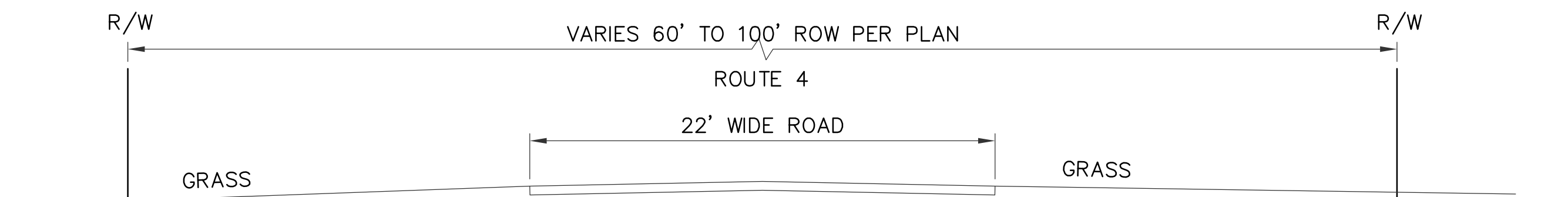
**4 MH12 TO MH21**  
C100 NTS \* 106+14 TO 167+00, 177+22 TO 187+29  
\*\* 167+00 TO 177+22



**5 CROSSING AT TALOFOFO BRIDGE**  
C100 NTS 201+55 TO 203+52



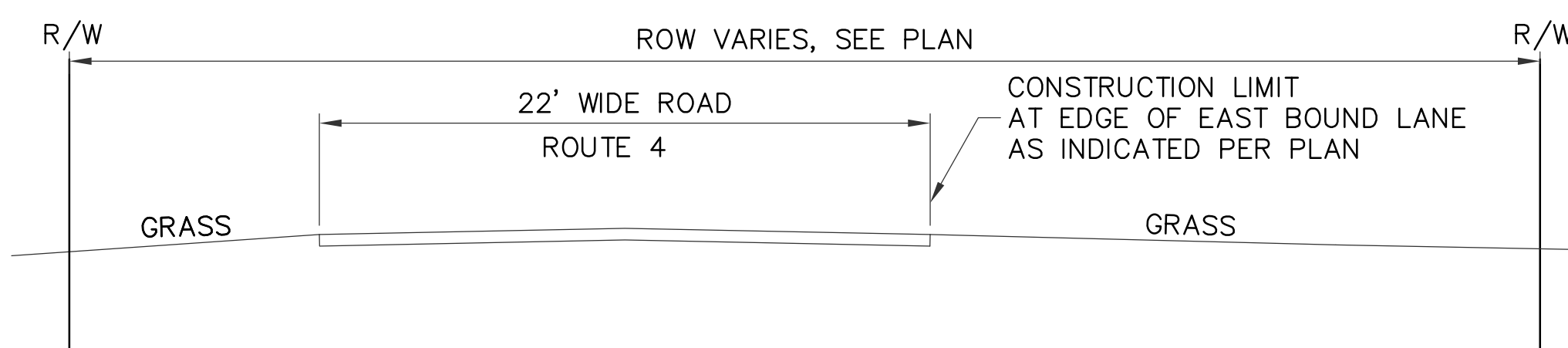
**5A PIPE SLEEVE BRIDGE CROSSING**  
C100 NTS SEE NOTE 3



T-LINE OUTSIDE PVMT  
T-LINE INSIDE PVMT  
T-LINE OUTSIDE PVMT (RT)

**6 ROUTE 4 MH21 TO MH23**  
C100 NTS

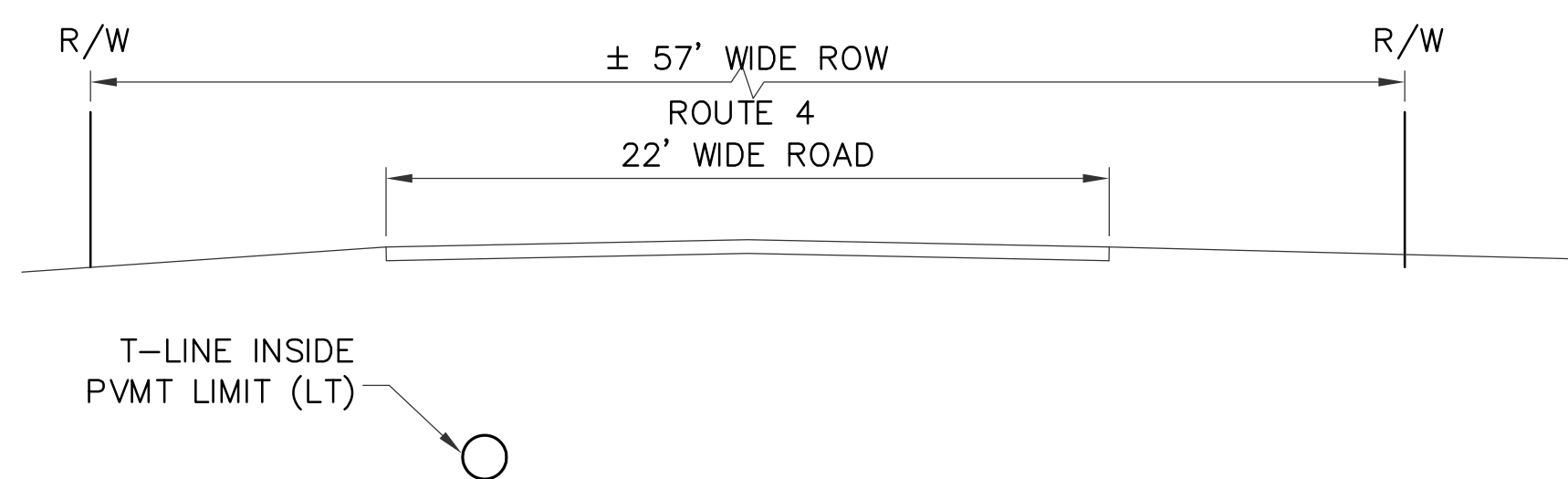
\* 187+29 TO 190+00, 199+40  
\*\* 190+00 TO 199+40  
\*\*\* 199+40 TO 204+56



T-LINE INSIDE PVMT LIMIT (LT)  
T-LINE INSIDE PVMT LIMIT (RT)

**7 ROUTE 4 MH23 TO MH25**  
C100 NTS

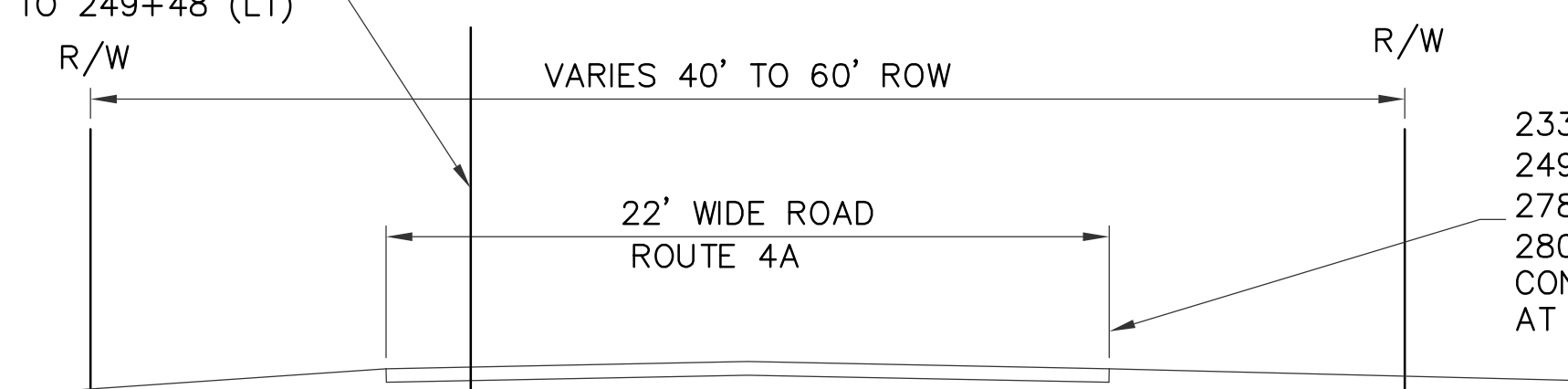
\* 205+80 TO 220+35  
\*\* 204+56 TO 205+80, 220+35 TO 222+85



T-LINE INSIDE PVMT LIMIT (LT)

**8 MH25 - MH26**  
C100 NTS 222+85 TO 230+80

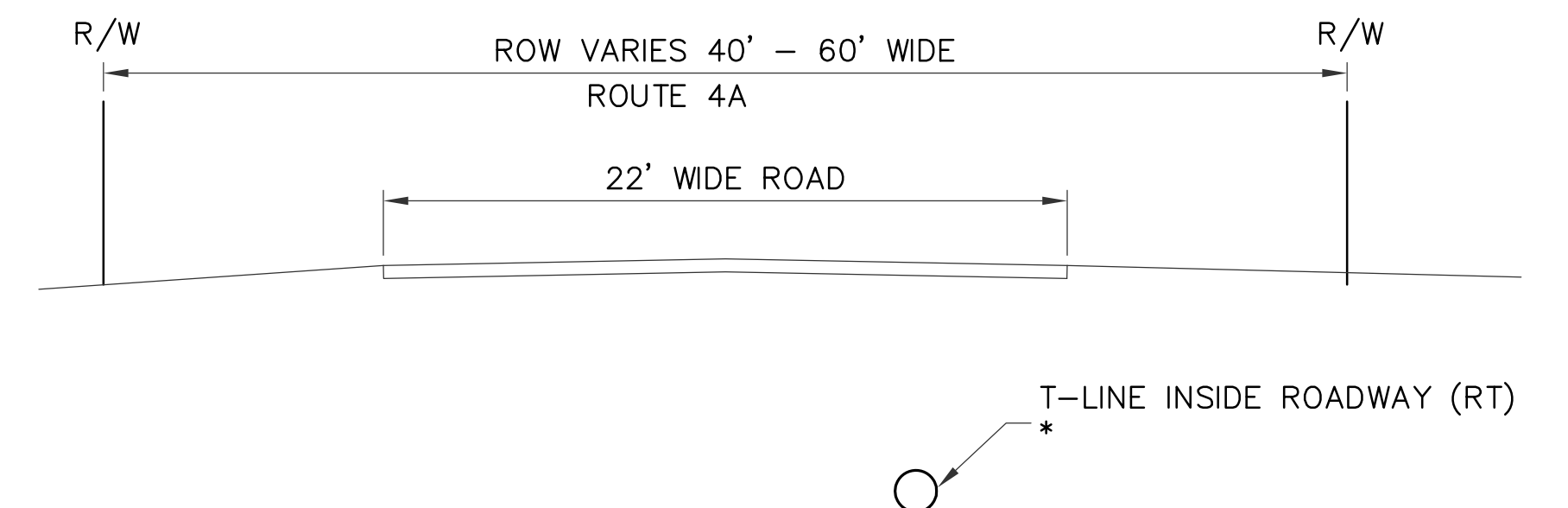
LEFT ROW BOUNDARY VARIES INSIDE 22' WIDE ROADWAY 234+68 TO 249+48 (LT)



T-LINE VARIES INSIDE ROW AND CONSTRUCTION LIMIT (LT)  
T-LINE VARIES INSIDE ROW AND CONSTRUCTION LIMIT (RT)

233+85 TO 244+97 (RT)  
249+04 TO 249+65 (RT)  
278+32 TO 278+80 (RT)  
280+32 TO 280+69 (RT)  
CONSTRUCTION LIMIT AT WEST BOUND EOP

**9 MH26 - MH33**  
C100 NTS \* 233+82 TO 250+15, 278+32 TO 289+76  
\*\* 230+80 TO 233+82, 250+15 TO 278+32



T-LINE INSIDE ROADWAY (RT)

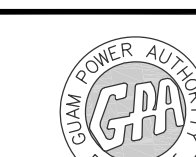
**10 MH33 TO MH35**  
C100 NTS \* 289+76 TO 305+62

**NOTES:**

- SEE SHEET C110 FOR T-LINE ALIGNMENT DATA
- SEE SHEETS C200 - C222 FOR T-LINE PLAN AND PROFILE
- SEE SHEETS SD-1 TO SD-4 FOR BRIDGE ATTACHMENT SHOP DRAWINGS.

AS-BUILT  
NOVEMBER 04, 2015

**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tet. Ave. Suite 302  
Sanford, GA 30733-3023  
email: tce@tc-engr.com  
Tel: (878)451-0888 Fax: (878)447-0888



**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

DRAWING NO: 001-14-004	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED: JE	ROAD/BRIDGE SECTIONS		
DRAWN: JA/RJ	SHEET TITLE:	SCALE:	SHEET NO: 4 OF 47
CHECKED BY: TG/JE	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE:	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:

C100





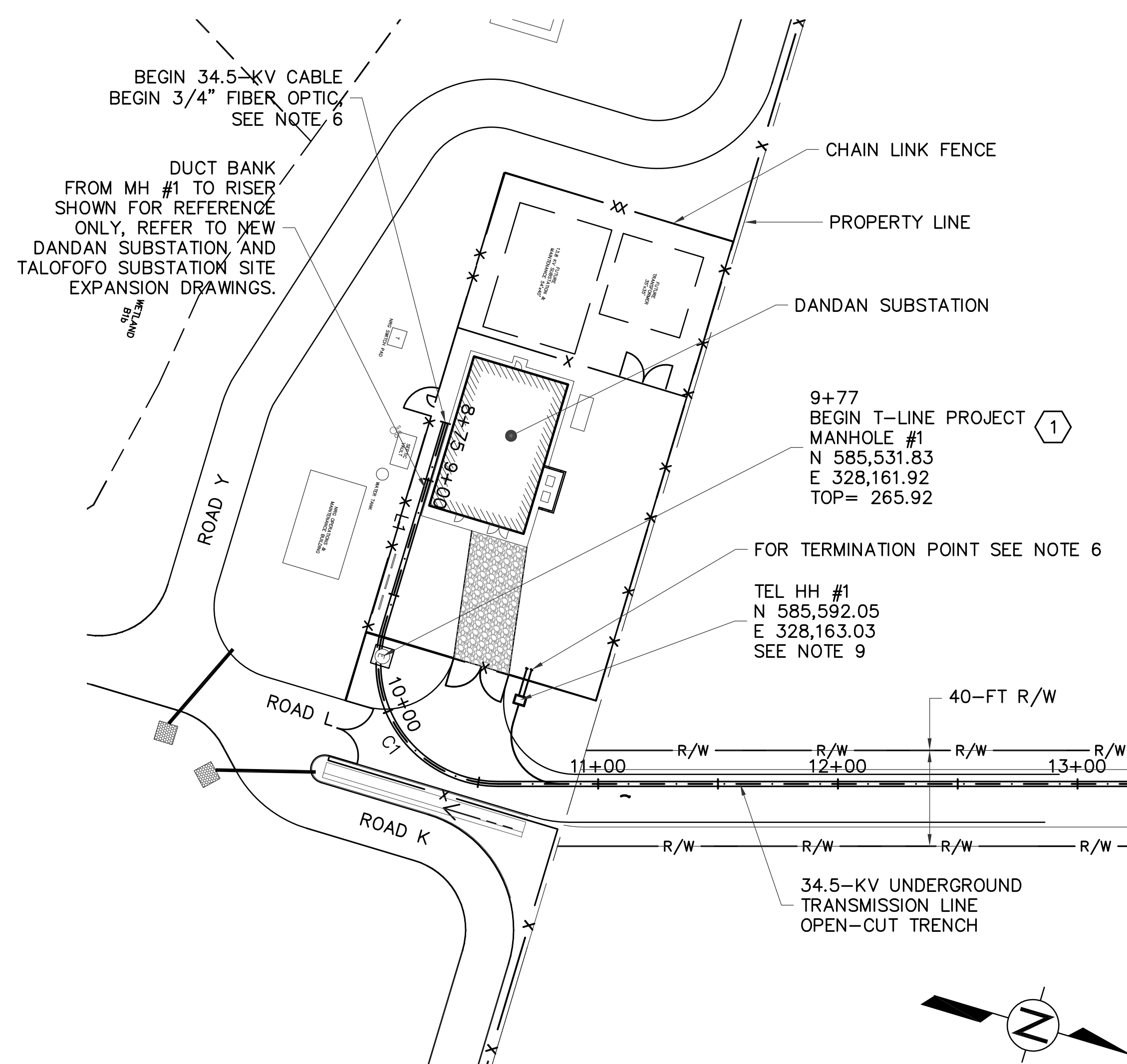
**CONSTRUCTION NOTES:**

- RESTORE ROADWAY IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS STANDARDS. SEE SHEET C600.
- SEE SHEETS C300 FOR EROSION CONTROL REQUIREMENTS.
- THE SUBGRADE UNDER NEW FACILITIES MUST BE SCARIFIED TO A MINIMUM OF 6-INCHES DEPTH, MOISTURE CONDITIONED AND COMPACTED TO 95% MDD.
- THE TRANSMISSION LINE ALIGNMENT IS APPROXIMATELY SHOWN BASED ON AS-BUILT MARKUP BY THE CONTRACTOR. THE LOCATION OF MANHOLES AND HANDHOLES ARE BASED ON TOPOGRAPHIC AS-BUILT SURVEY COMPLETED BY TG ENGINEERS, PC DURING THE MONTHS OF SEPTEMBER & OCTOBER 2015.
- CONTRACTOR TO KEEP EXISTING DRIVEWAYS UNOBSTRUCTED AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH EACH LAND OWNER IF PARTIAL CLOSURE IS REQUIRED TO COMPLETE THE WORK.
- REFER TO NEW DANDAN SUBSTATION AND TALOFOFO SUBSTATION SITE EXPANSION FOR TERMINATION LOCATION FOR 34.5-KV CABLE, FIBER OPTIC, AND TELEPHONE CABLE.
- FOR 34.5-KV UNDERGROUND TRANSMISSION ONE-LINE DIAGRAM, SEE SHEET E100.
- SEE SHEET C110 FOR T-LINE ALIGNMENT DATA.
- TELEPHONE HANDHOLES FROM DANDAN SUBSTATION TO DANDAN ROAD ARE BASED ON TOPOGRAPHIC SURVEY.
- CONTRACTOR SHALL MAINTAIN A 10' MINIMUM CLEARANCE FROM ALL EXISTING POLES, O/H WIRES AND OTHER GPA FACILITIES. WHERE TRENCH REQUIRES CLEARANCE LESS THAN 10' FROM EXISTING POLES, FOUNDATIONS, AND FACILITIES, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING PRIOR TO EXCAVATION, AND MAINTAIN A CLEARANCE OF NO LESS THAN 4'.

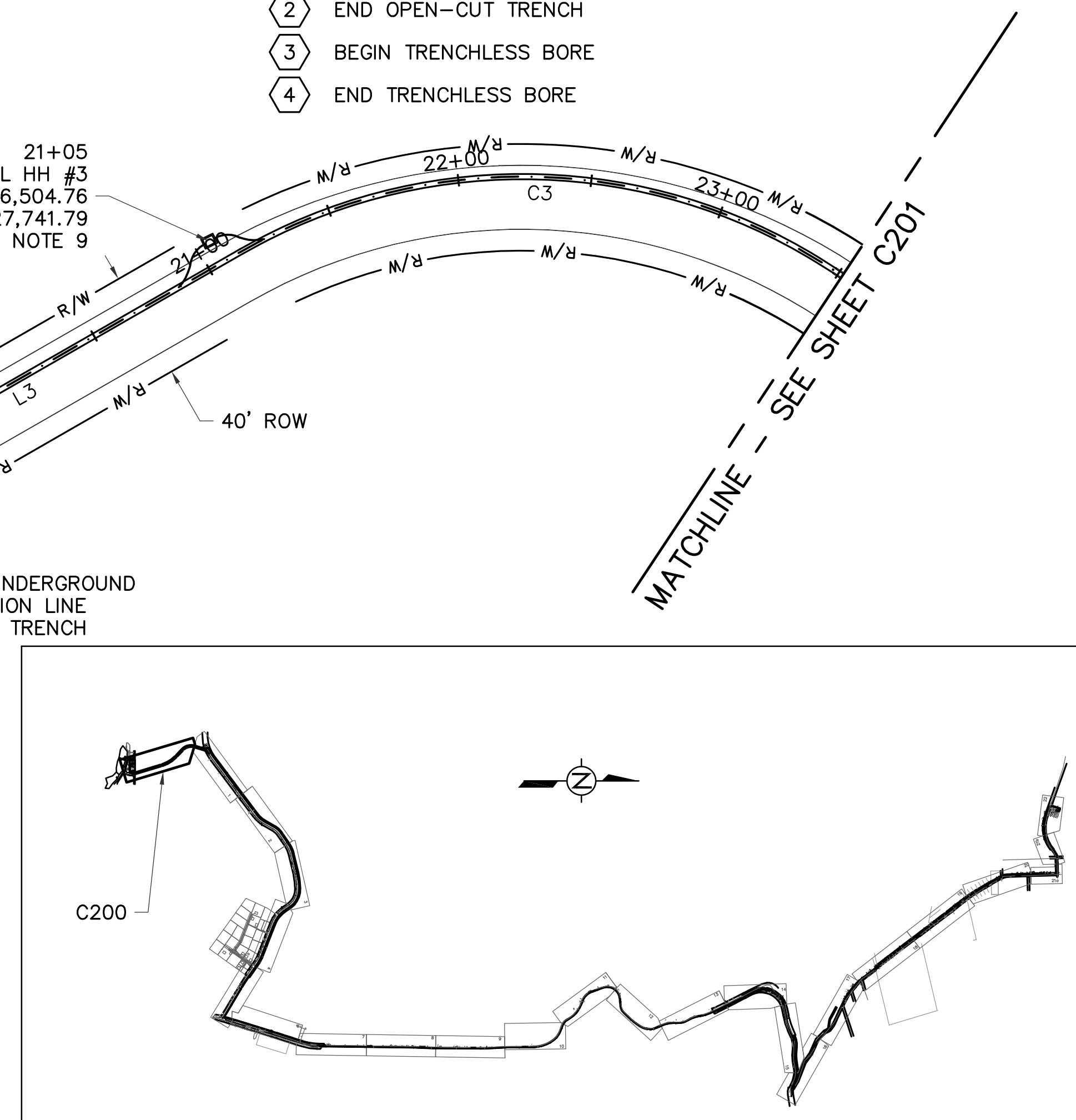
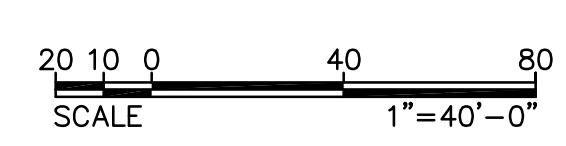
- TRANSITION OF U/G TRANSMISSION DUCT SHALL BE CONSTRUCTED TO MINIMIZE THE NUMBER OF BENDS THE U/G CABLE WILL ENCOUNTER.
- CLEARANCE REQUIREMENT; DUCT CROSSING IS 12" MINIMUM, ALL UTILITIES SHALL BE RESTORED WITH APPROVED BEDDING MATERIAL.

**LEGEND:**

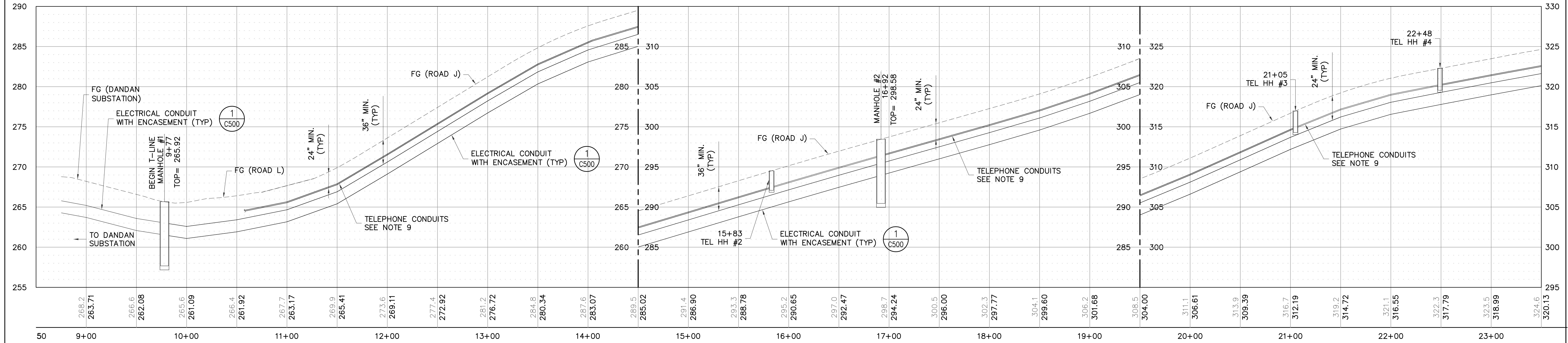
- ① BEGIN OPEN-CUT TRENCH
- ② END OPEN-CUT TRENCH
- ③ BEGIN TRENCHLESS BORE
- ④ END TRENCHLESS BORE



**1 PLAN**  
SCALE: 1"=40'-0"



**KEYMAP**

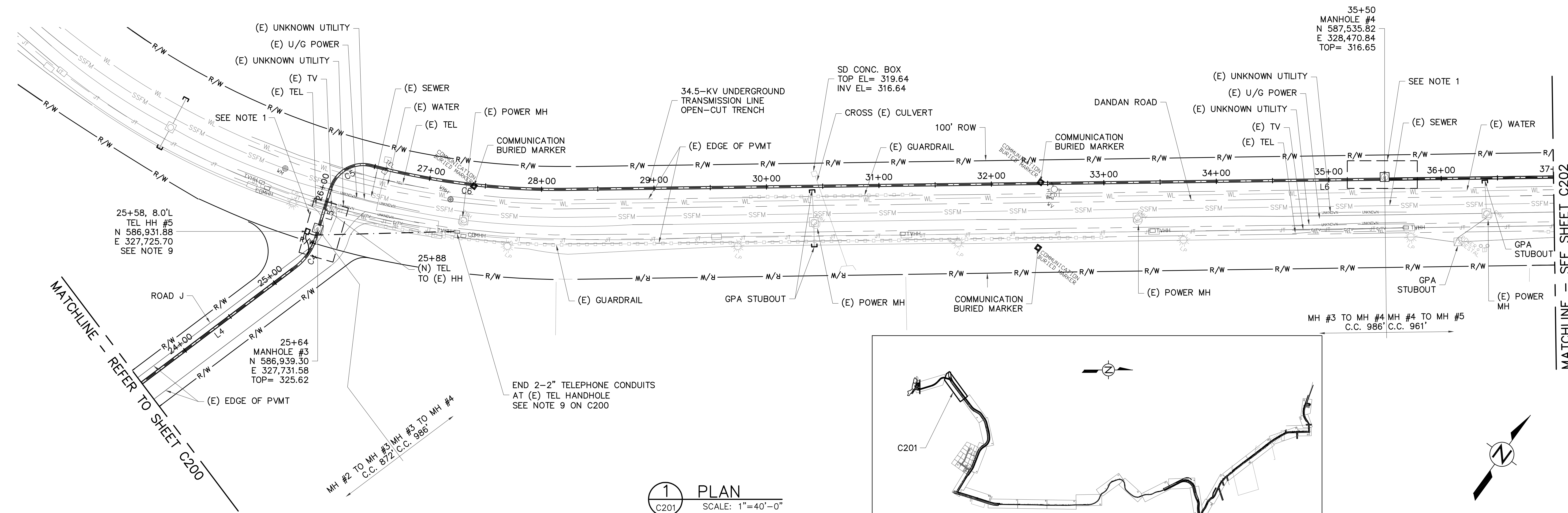


**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

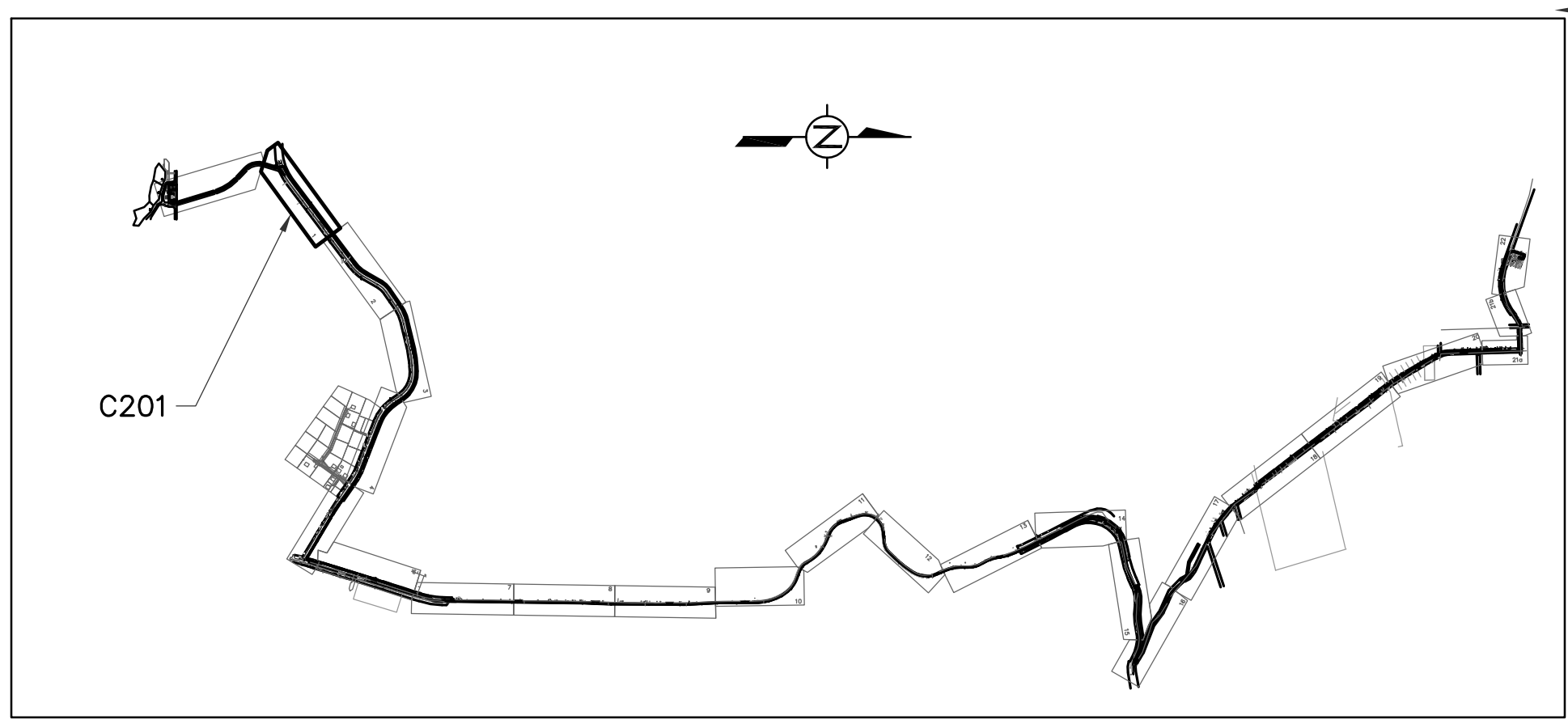
**C200**

<p><b>AS-BUILT</b> NOVEMBER 04, 2015</p>	<p><b>TG ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT &amp; LAND SURVEYING 125 Tula Plaza, Suite 300 Agaña, Guam 96913-9202 email: tge@tg-engr.com tel: (671)843-0888 fax: (671)843-0886</p>		<p><b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910</p>	
	<p>DRAWING NO: 001-14-006</p>	<p>34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM</p>		
<p>DESIGNED: JE</p>	<p>CHECKED BY: TO/JE</p>	<p>DATE: 11/04/2015</p>	<p>JOB ORDER NO: 100143</p>	<p>SCALE: AS NOTED</p>
<p>ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.</p>	<p>MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.</p>	<p>ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.</p>	<p>GENERAL MANAGER: JOHN M. BENAVENTE, P.E.</p>	<p>SHEET NO: 6 OF 47</p>

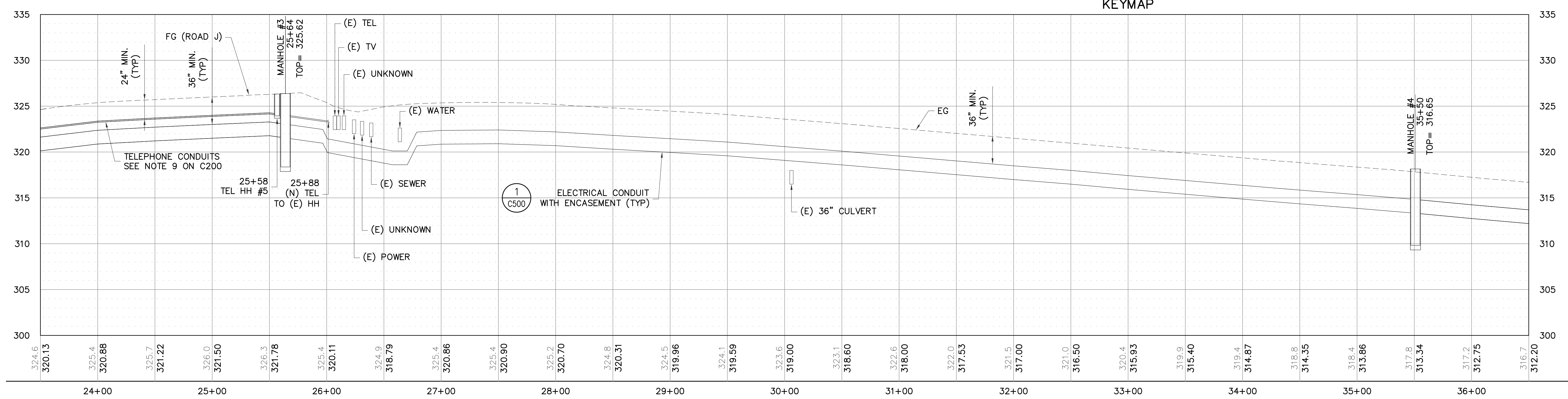
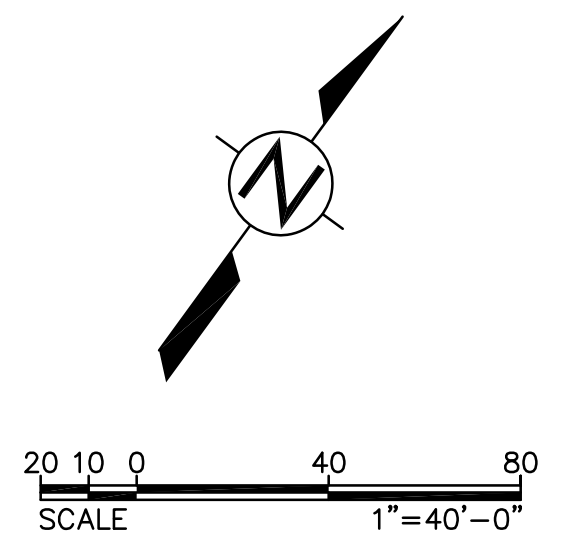




1 PLAN  
C201 SCALE: 1"=40'-0"



KEYMAP



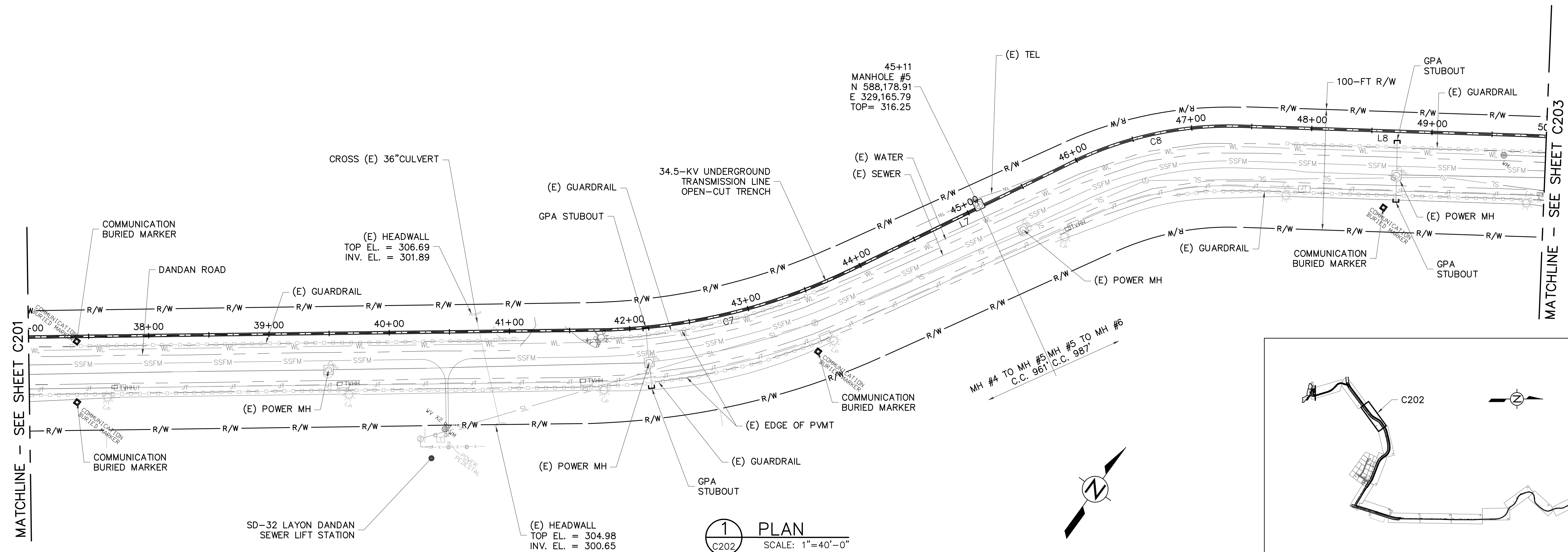
2 PROFILE  
C201 SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:**
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

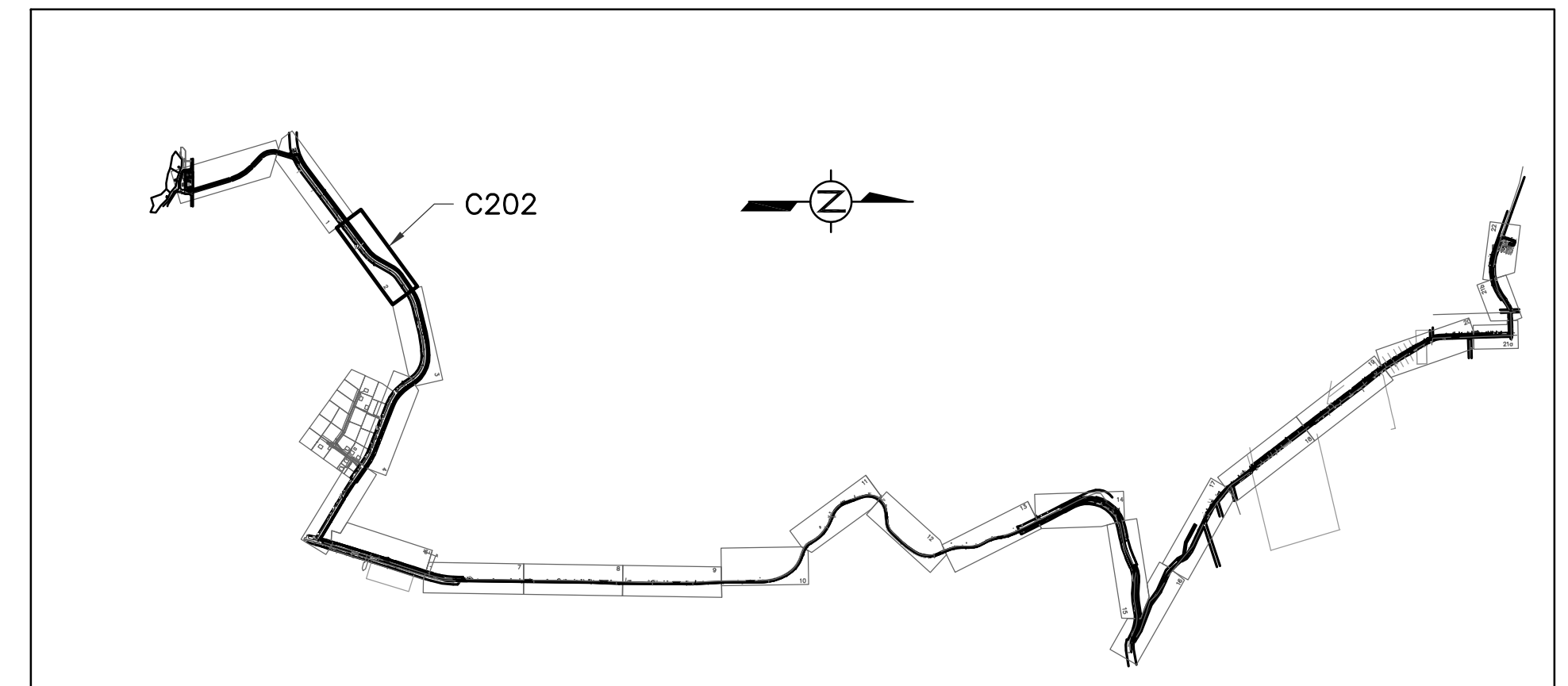
**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

C201

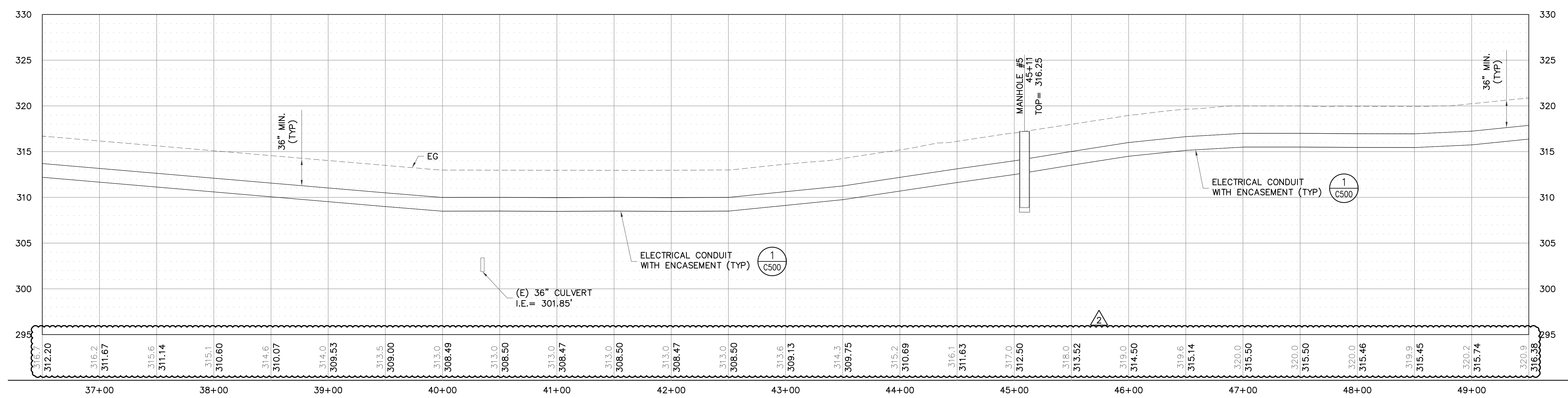
<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TG ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Plaza, Suite 300 Hagatna, Guam 96913-3001 email: tge@tg-engr.com Tel: (671) 943-0888 Fax: (671) 943-0886	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
		DRAWING NO: 001-14-007 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE ENGINEERING SUPERVISOR: IRWIN E. LOYOLA, P.E. MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	SHEET TITLE: T-LINE PLAN AND PROFILE (MH3 TO MH4) DATE: 11/04/2015 DATE: 11/04/2015 DATE:



1 PLAN  
SCALE: 1"=40'-0"



KEYMAP



2 PROFILE  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

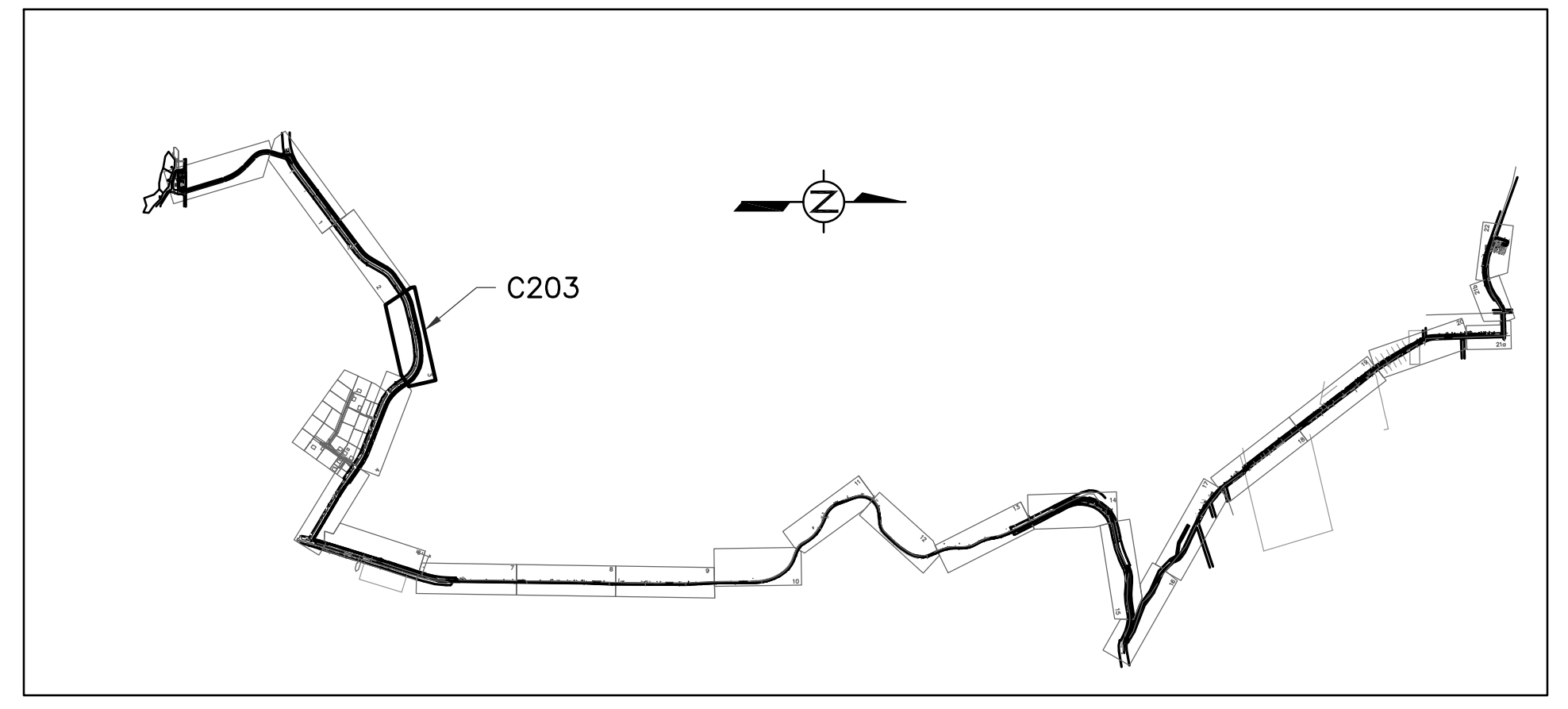
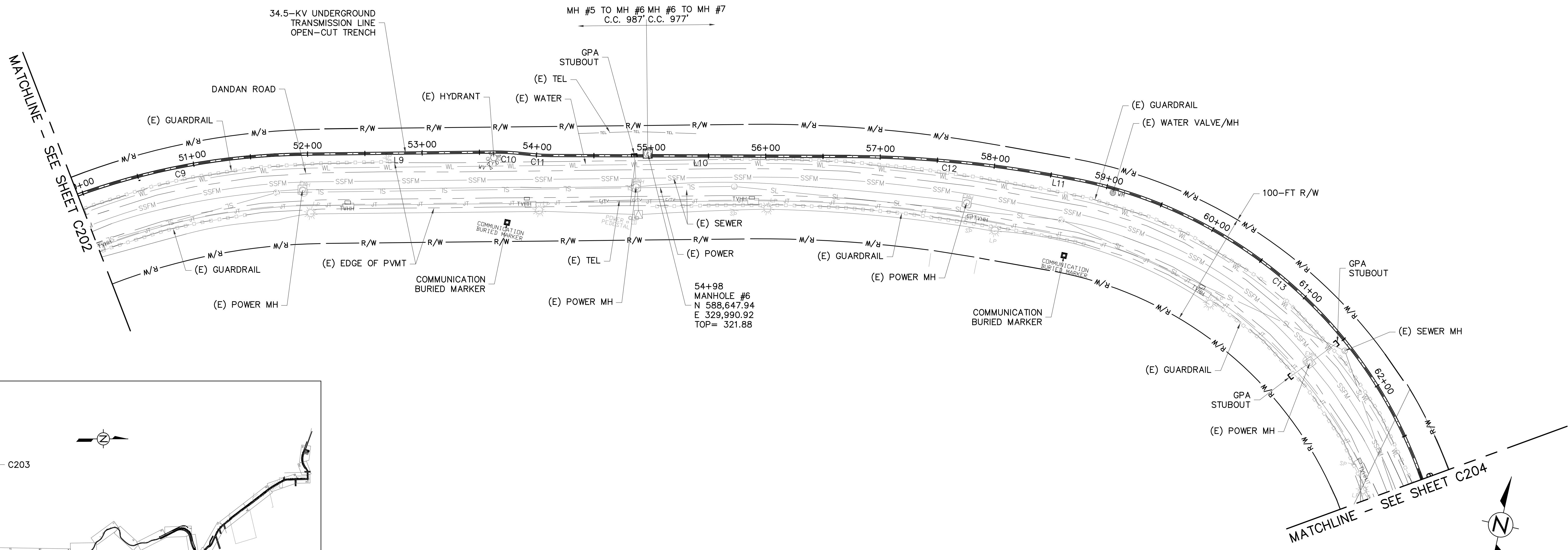
- LEGEND:**
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

C202

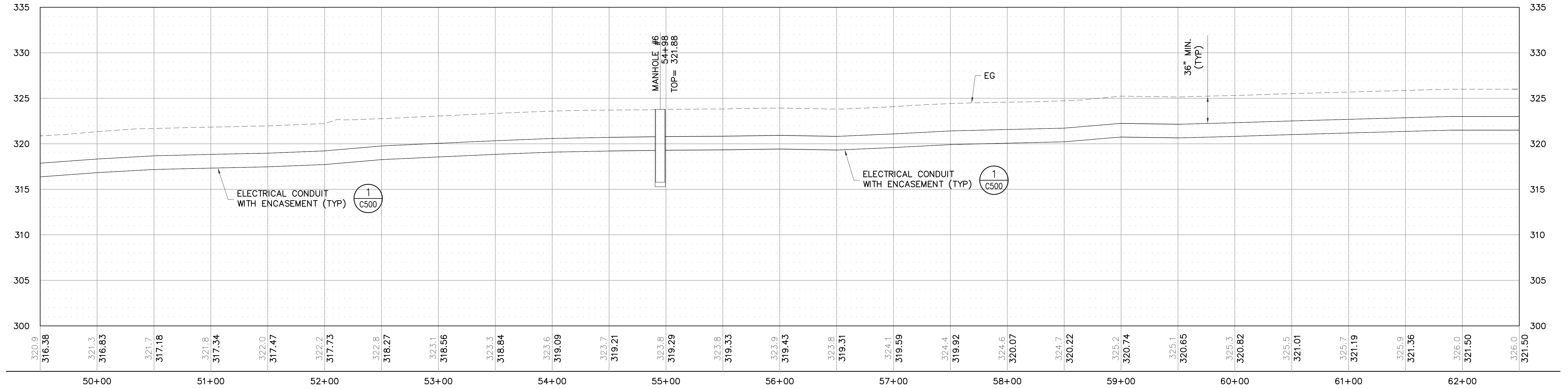
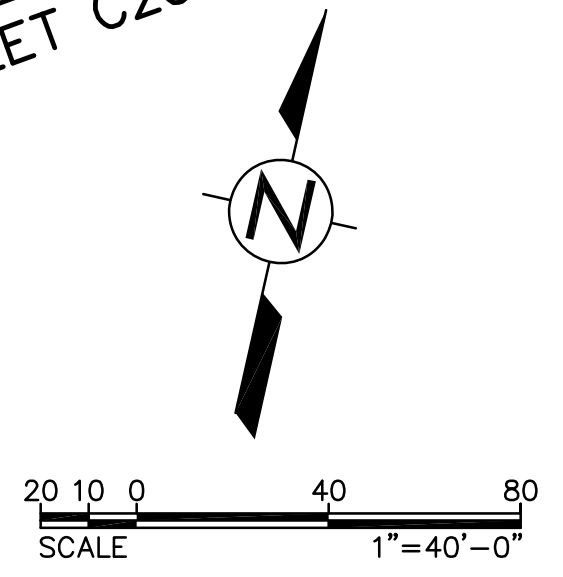
<b>AS-BUILT</b> NOVEMBER 04, 2015		<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Heza Circle, Suite 300 Agaña, Guam 96913-3003 email: tce@tc-engr.com Tel: (671) 943-8888 Fax: (671) 943-8886		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
DRAWING NO: 001-14-008		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		SHEET NO: 8 OF 47	
DESIGNED: JE		SHEET TITLE: T-LINE PLAN AND PROFILE (MHS)		JOB ORDER NO: 100143	
DRAWN: JA/RJ		DATE: 11/04/2015		SCALE: AS NOTED	
CHECKED BY: TG/JE		DATE: 11/04/2015		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		DATE: 11/04/2015		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		DATE: 11/04/2015		DATE:	





KEYMAP

1 PLAN  
SCALE: 1"=40'-0"



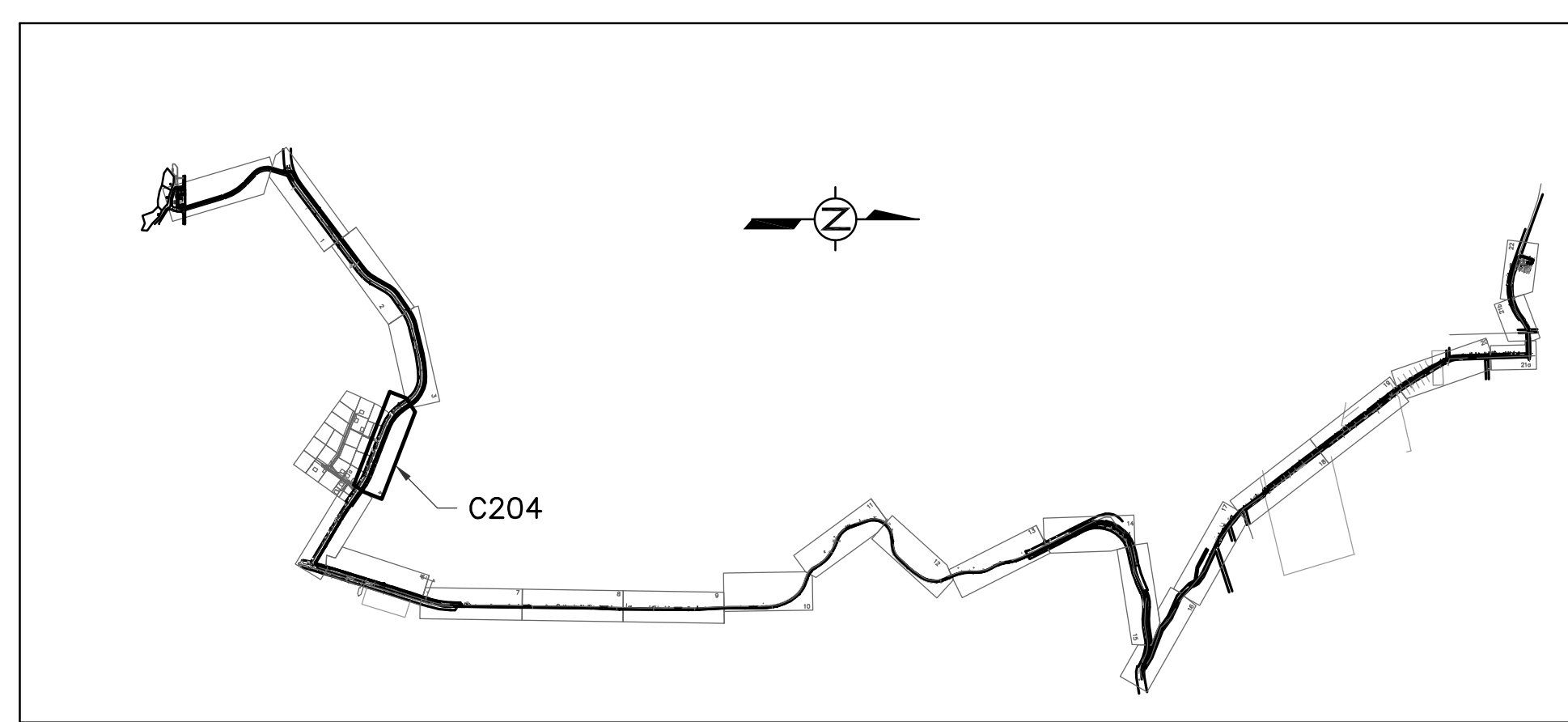
2 PROFILE  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:**
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

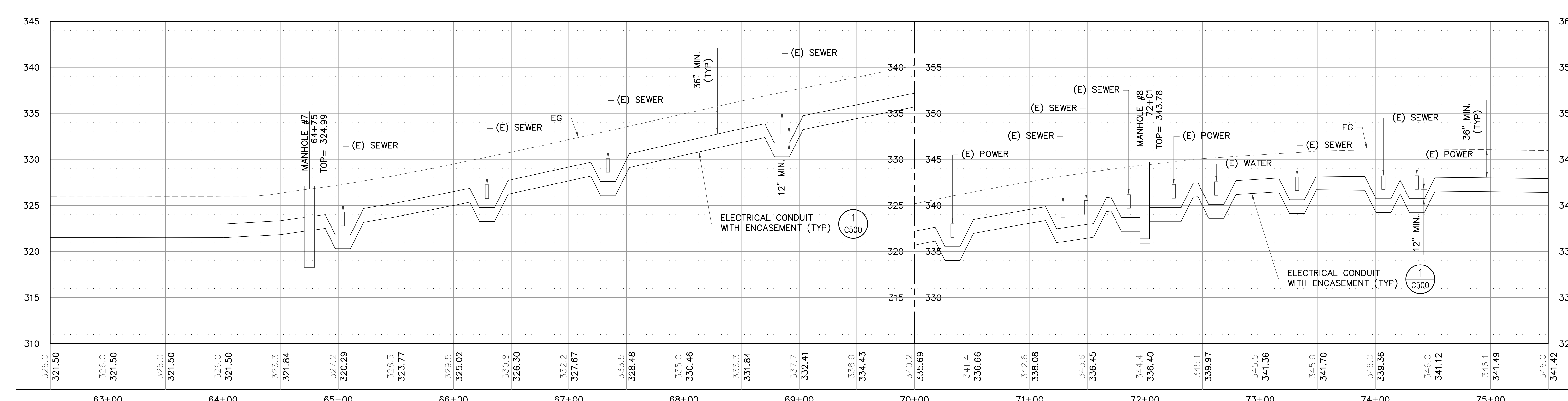
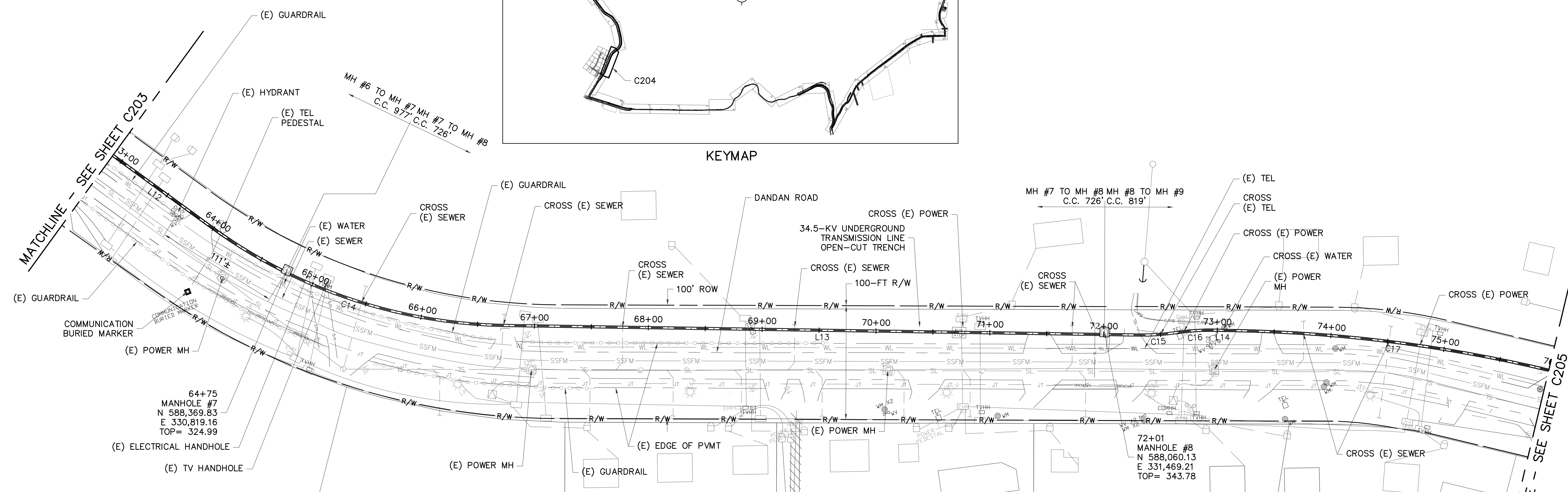
**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

C203

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> <small>CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT &amp; LAND SURVEYING</small> <small>125 Tula Plaza, Suite 500, Agaña, Guam 96913-3001</small> <small>email: tce@tc-engr.com</small> <small>tel: (671)947-8888 fax: (671)947-8886</small>	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-009 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E. MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	SHEET TITLE: T-LINE PLAN AND PROFILE (MH6) JOB ORDER NO: 100143 DATE: 11/04/2015 SCALE: AS NOTED SHEET NO: 9 OF 47	



KEYMAP



- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE

**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

**C204**

**AS-BUILT**  
NOVEMBER 04, 2015

**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Teti Hea, Gaisi, Agaña, GUAM  
Tel: (671) 943-0888 Fax: (671) 943-0886

**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

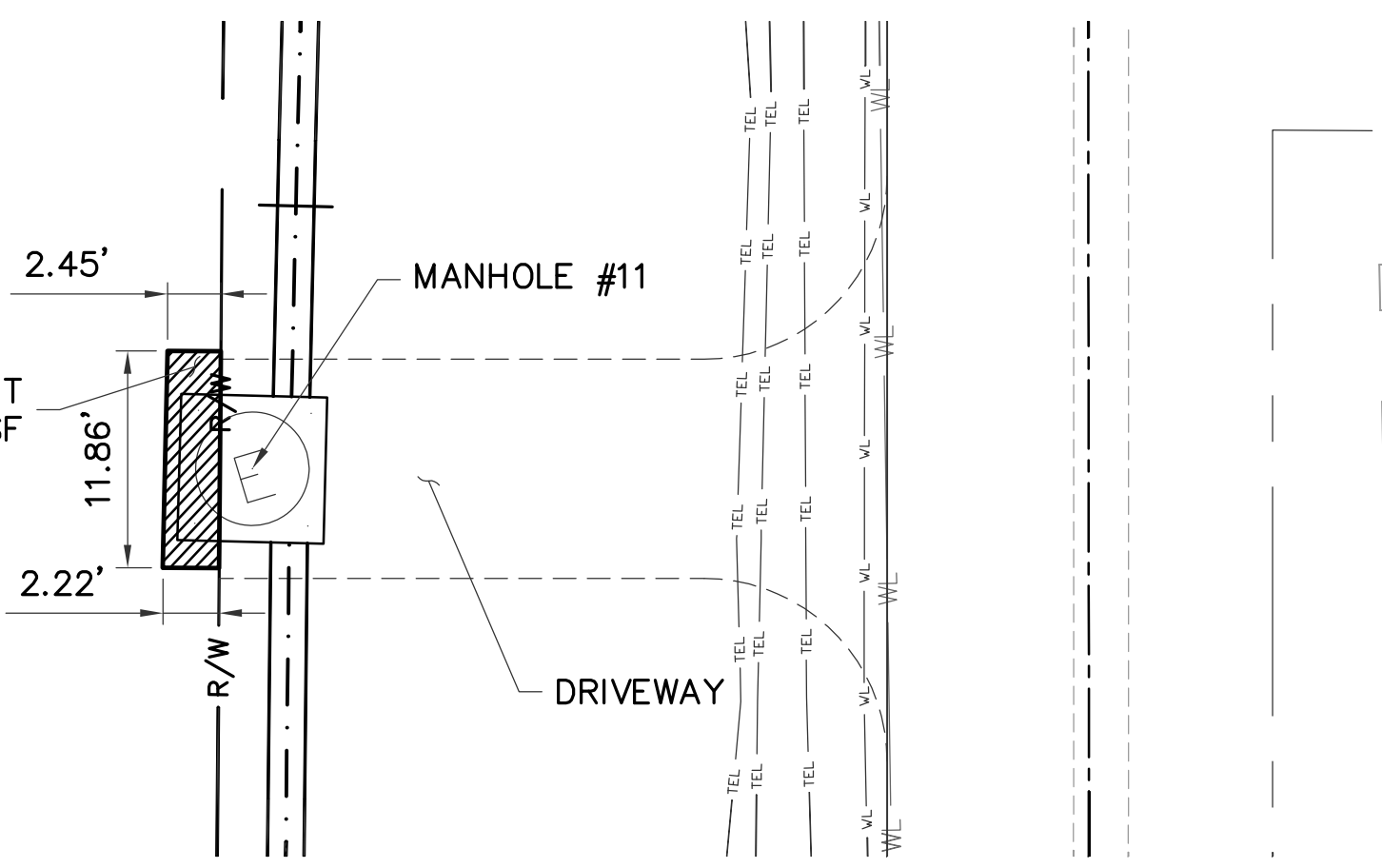
DRAWING NO: 001-14-010	34.5-kV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH7 TO MH8)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 10 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE: 11/04/2015	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:



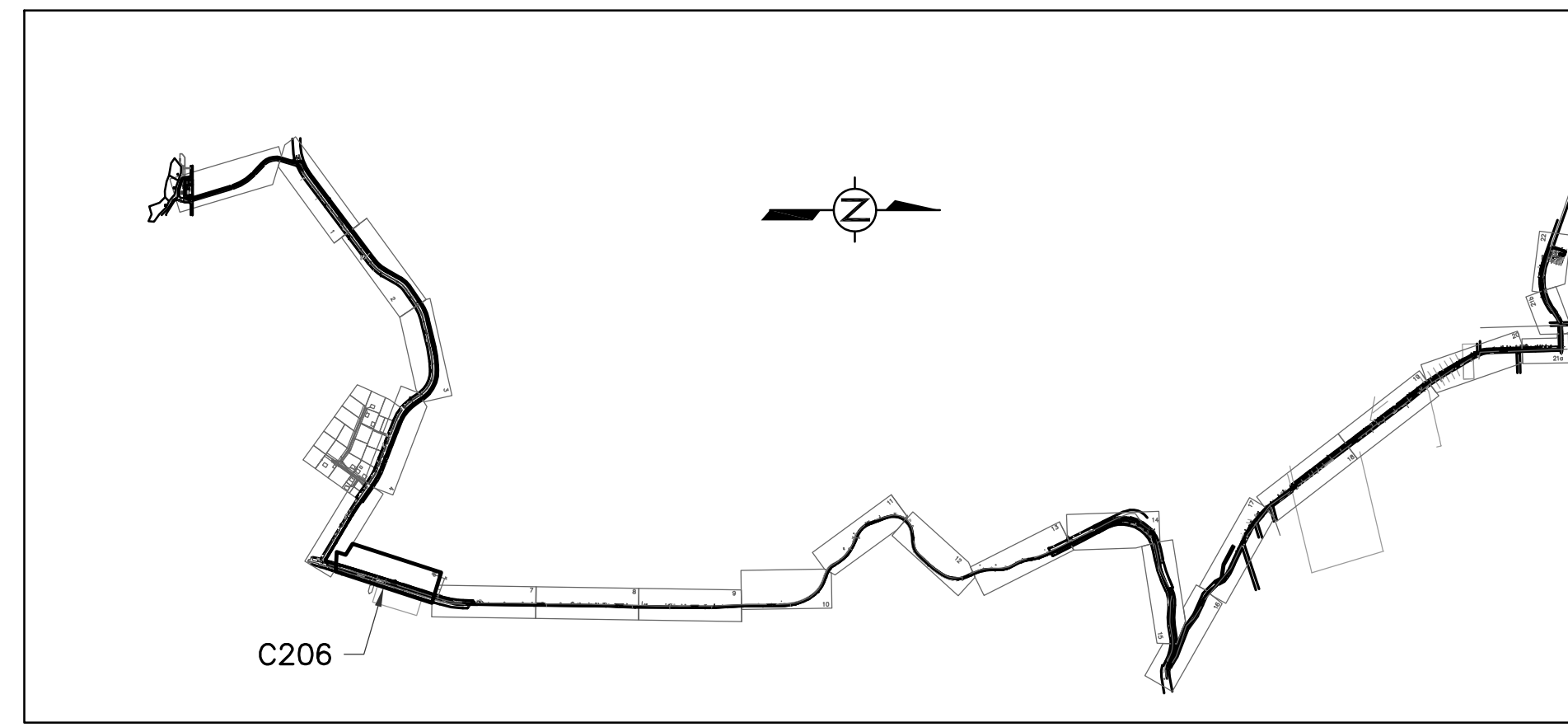


LOT 7-2, BLOCK 5  
TRACT 212

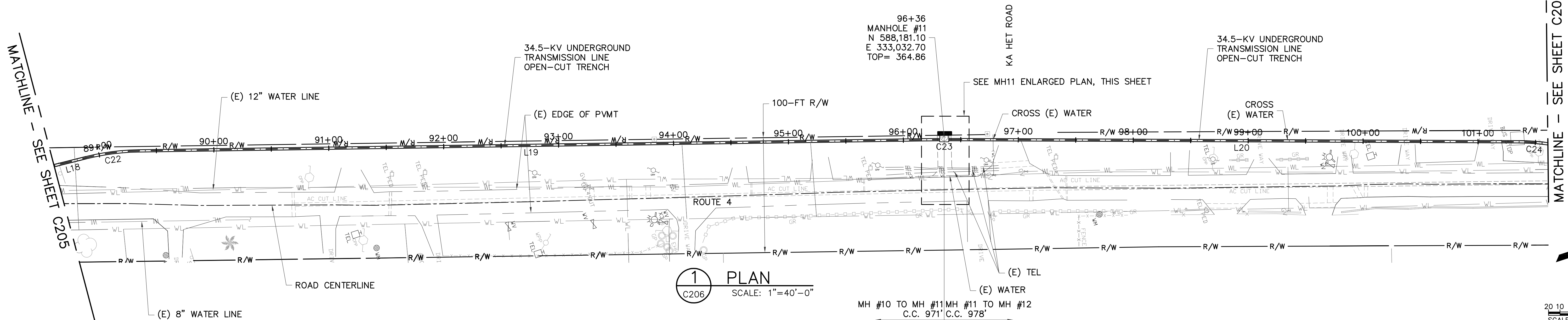
GPA EASEMENT  
COMP. AREA= 27.8 SF



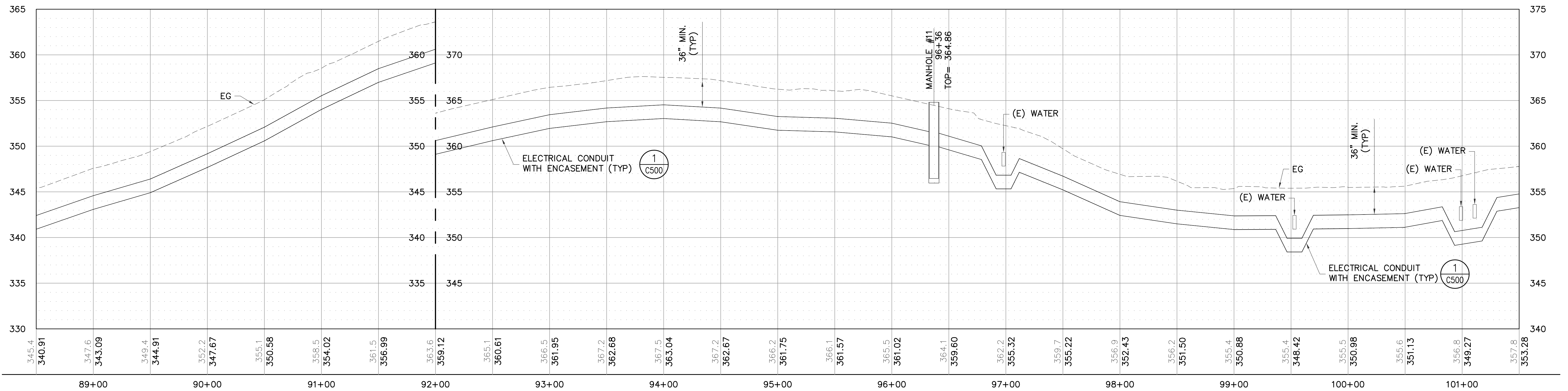
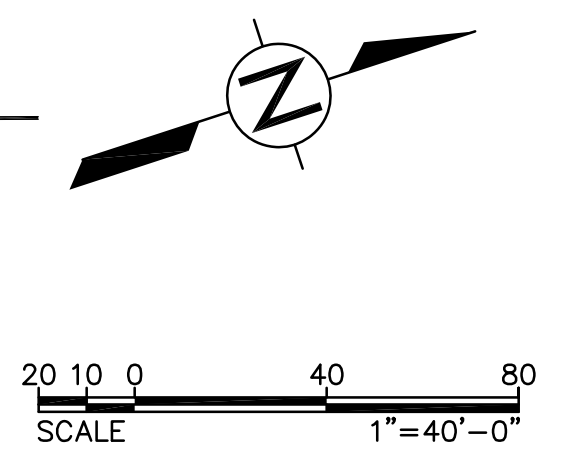
**MH11 ENLARGED PLAN**



**KEYMAP**



**1 PLAN**  
SCALE: 1"=40'-0"



**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

**LEGEND:**

- 1 BEGIN OPEN-CUT TRENCH
- 2 END OPEN-CUT TRENCH
- 3 BEGIN TRENCHLESS BORE
- 4 END TRENCHLESS BORE

**NOTE:**

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

**AS-BUILT**  
NOVEMBER 04, 2015

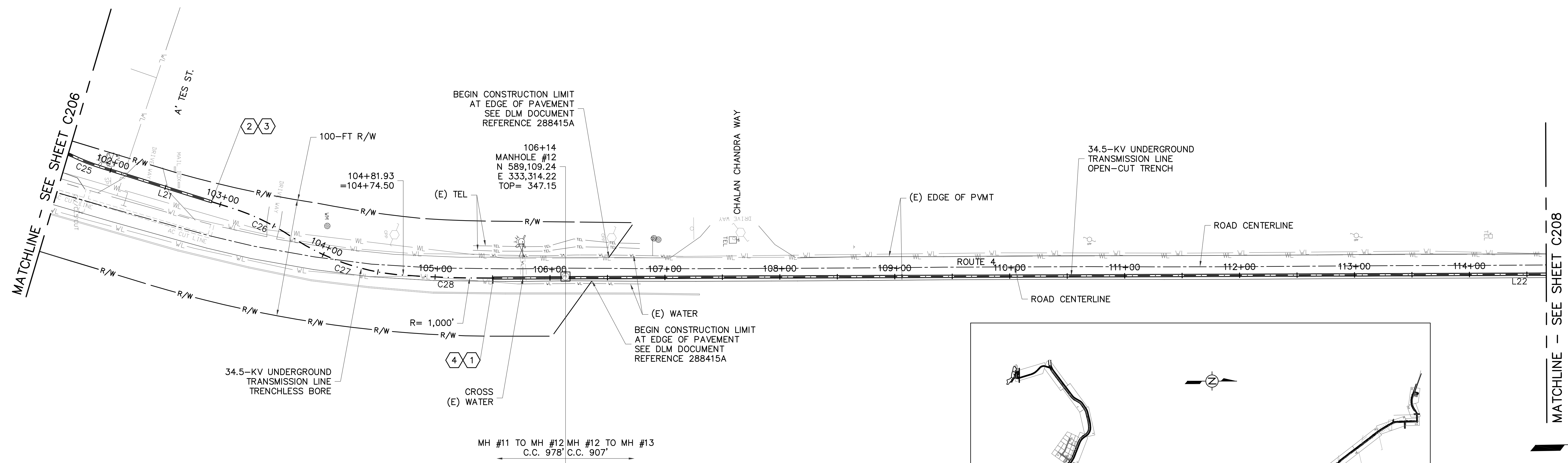
**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tola Heva Circle, Suite 304  
Tapanahiki, Guam 96913-3003  
email: tc\_eng@tc-eng.com  
Tel: (671)943-8888 Fax: (671)943-8886



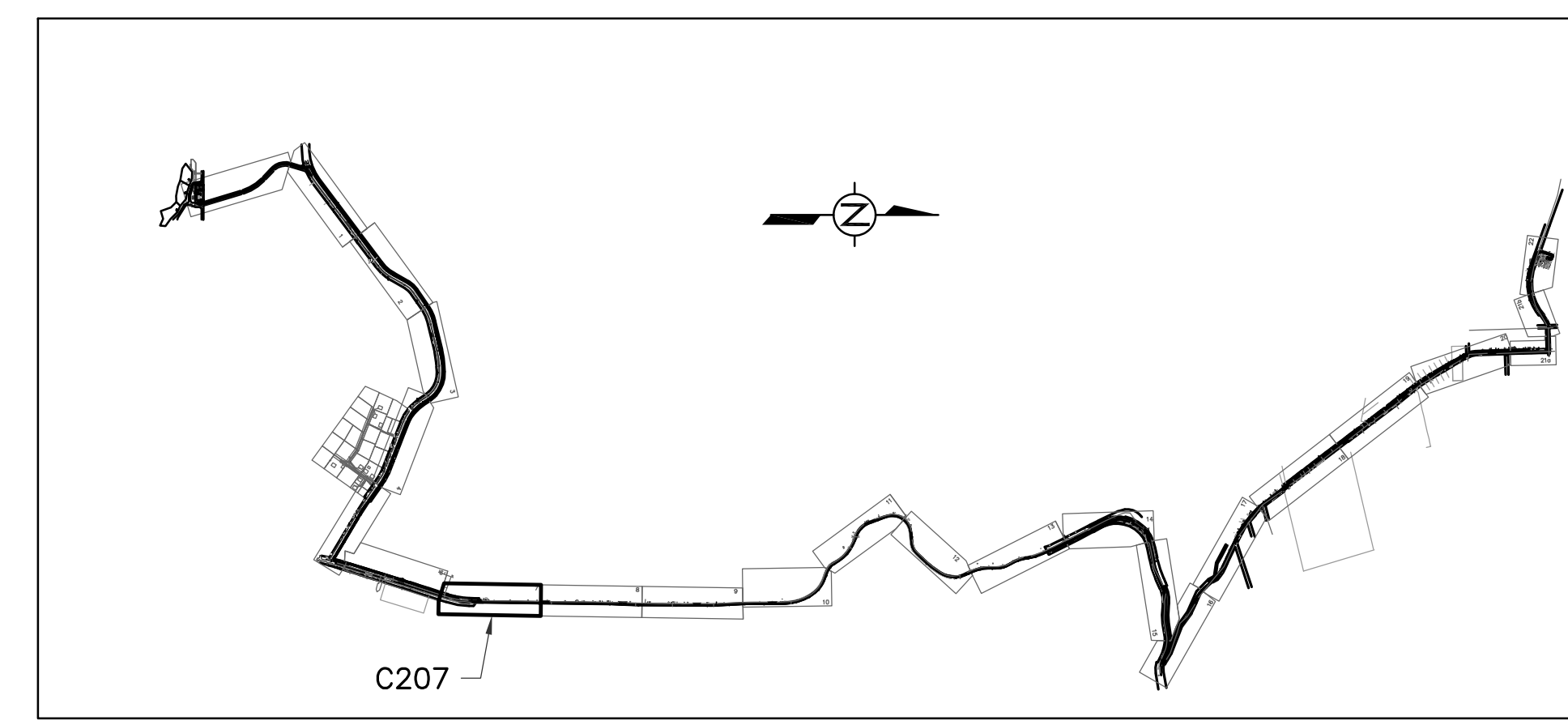
**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

**C206**

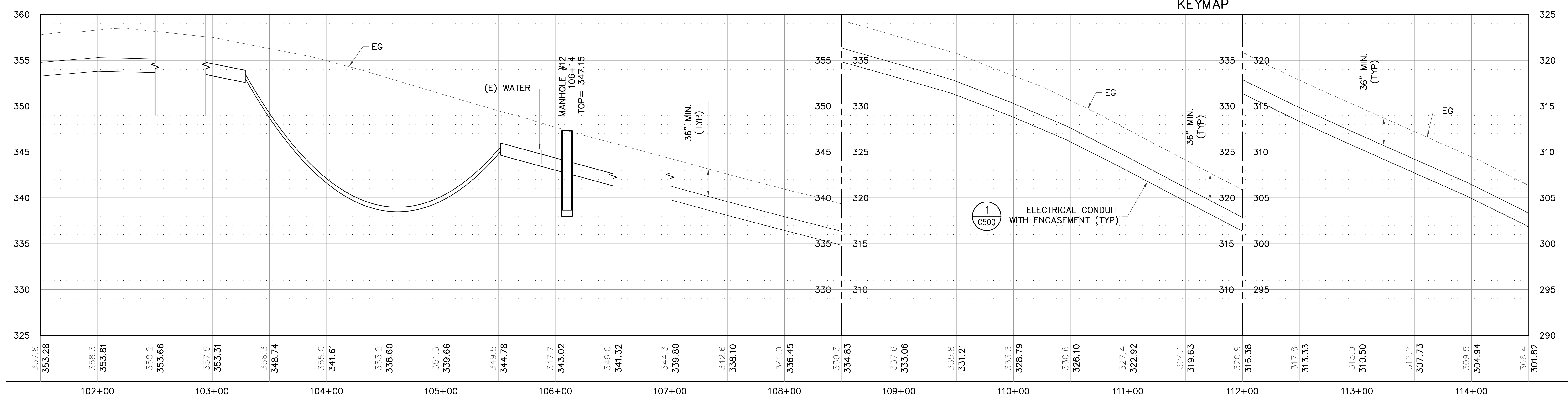
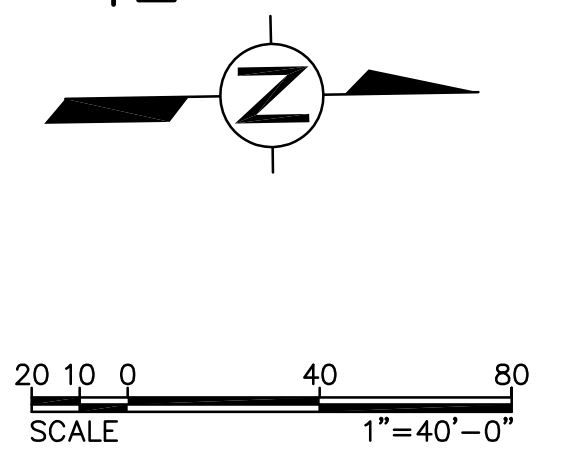
DRAWING NO: 001-14-012		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED BY: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH11)		
DRAWN BY: JA/RJ	CHECKED BY: TG/JE	DATE: 11/04/2015	JOB ORDER NO: 100143
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:



**1 PLAN**  
SCALE: 1"=40'-0"



KEYMAP



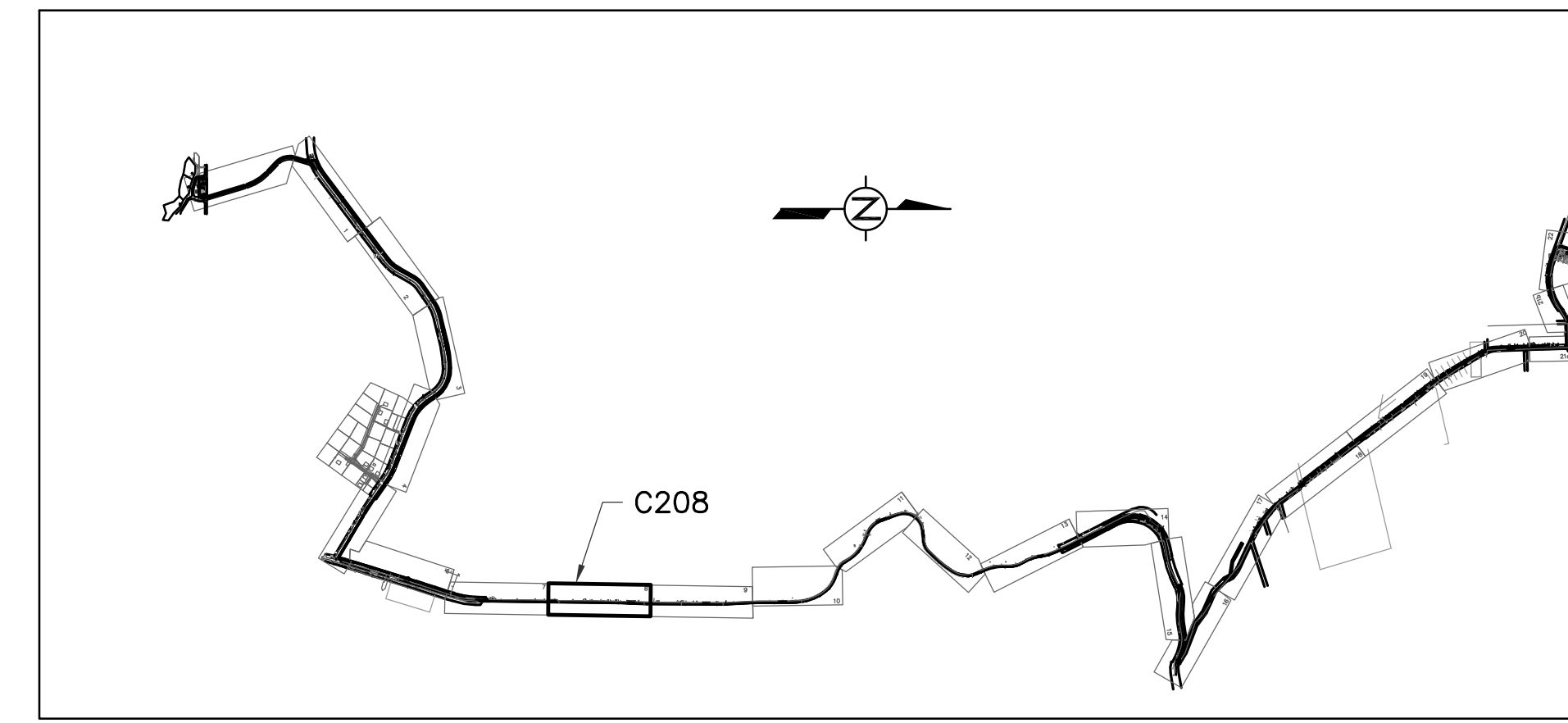
**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE

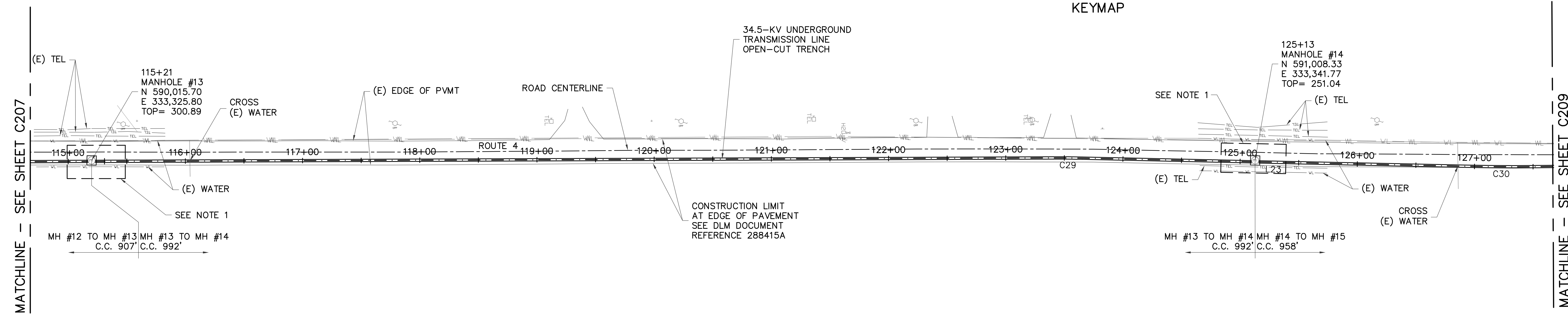
**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

**C207**

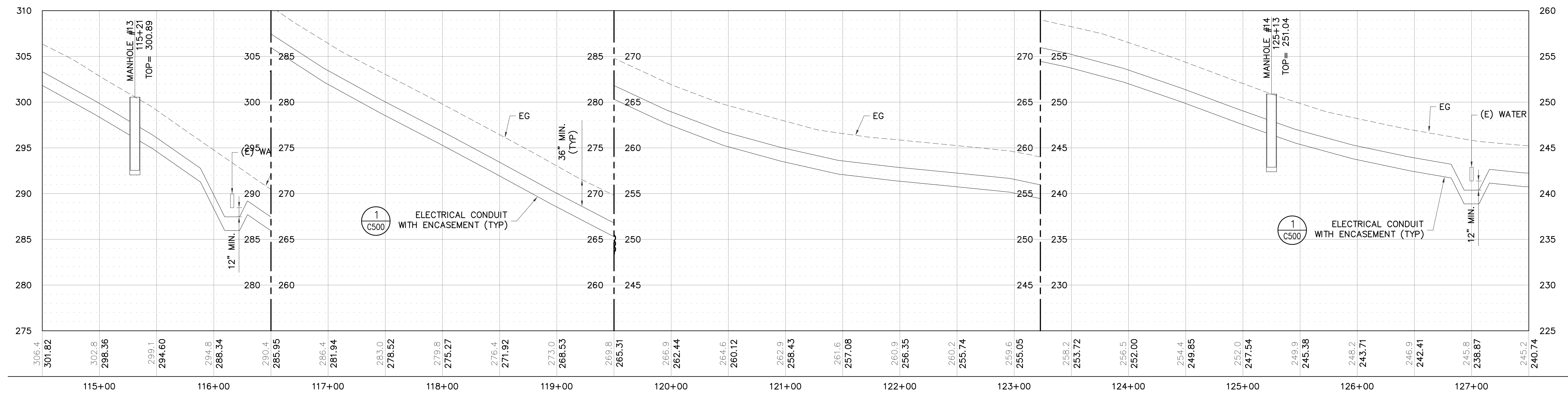
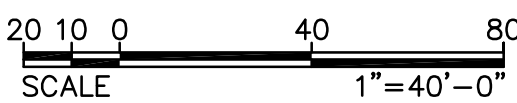
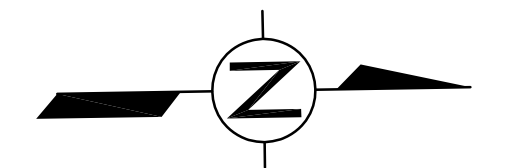
<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Plaza, Suite 500 Agaña, Guam 96913-3023 email: tce@tc-engr.com tel: (671) 943-0888 fax: (671) 943-0886		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-013		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE		SHEET TITLE: T-LINE PLAN AND PROFILE (MH12)		
DRAWN: JA/RJ		JOB ORDER NO: 100143		
CHECKED BY: TG/JE		DATE: 11/04/2015		SCALE: AS NOTED
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		DATE:		SHEET NO: 13 OF 47
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		DATE:		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.
		DATE:		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.



KEYMAP



1 PLAN  
C208 SCALE: 1"=40'-0"



2 PROFILE  
C208 SCALE: HOR 1"=40'-0" VER 1"=5'-0"

LEGEND:

- 1 BEGIN OPEN-CUT TRENCH
- 2 END OPEN-CUT TRENCH
- 3 BEGIN TRENCHLESS BORE
- 4 END TRENCHLESS BORE

NOTE:

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

AS-BUILT  
NOVEMBER 04, 2015

**TG ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tot. Area, Suite 300  
San Juan, Guam 96913-3003  
email: tge@tg-engr.com  
Tel: (671)843-0888 Fax: (671)843-0886

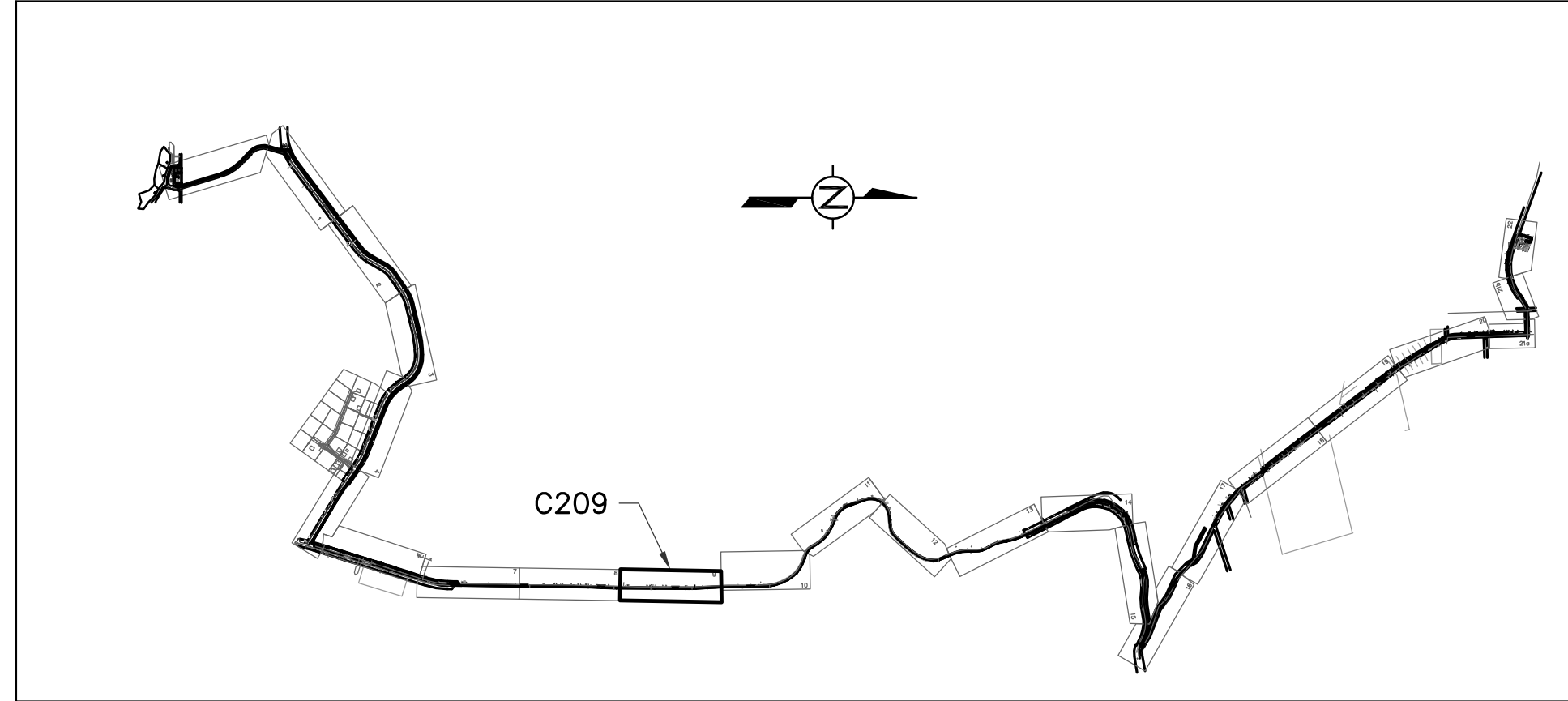


**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

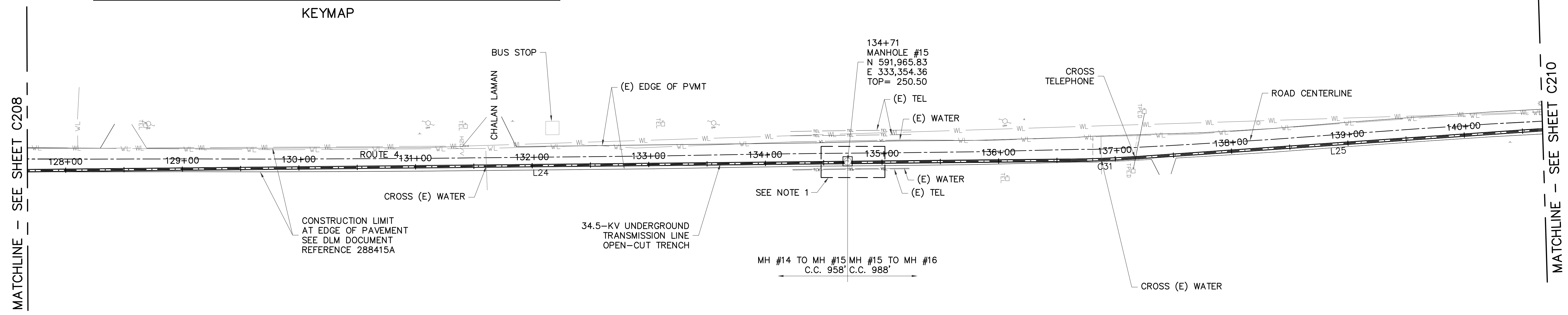
DRAWING NO: 001-14-014	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH13 TO MH14)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 14 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:

C208

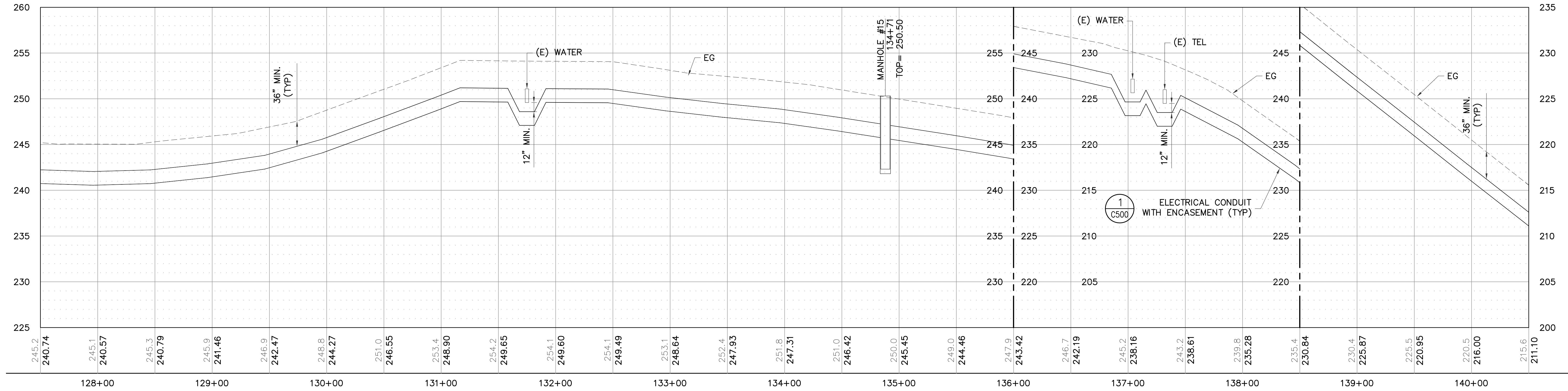
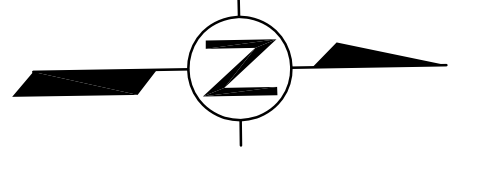




KEYMAP



1 PLAN  
C209 SCALE: 1"=40'-0"



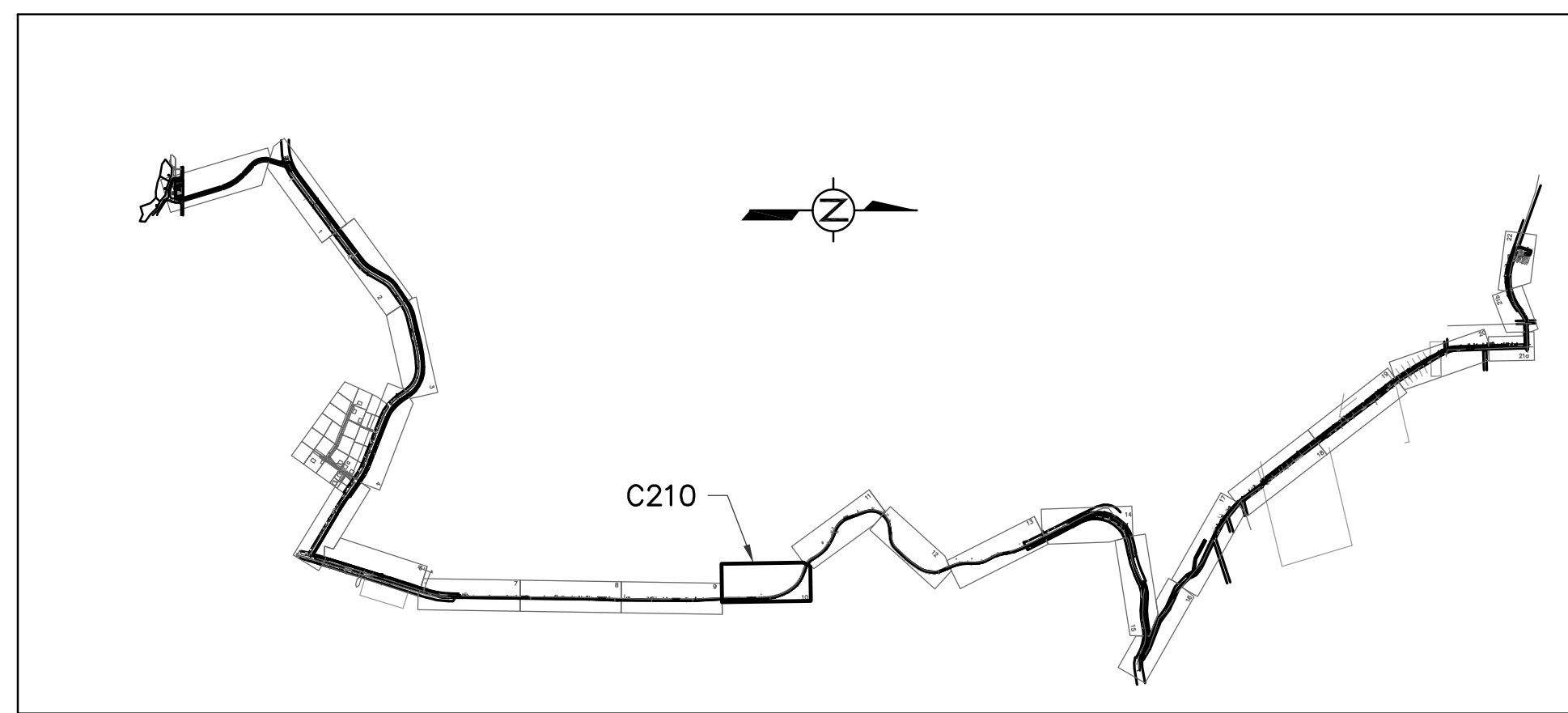
2 PROFILE  
C209 SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:**
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

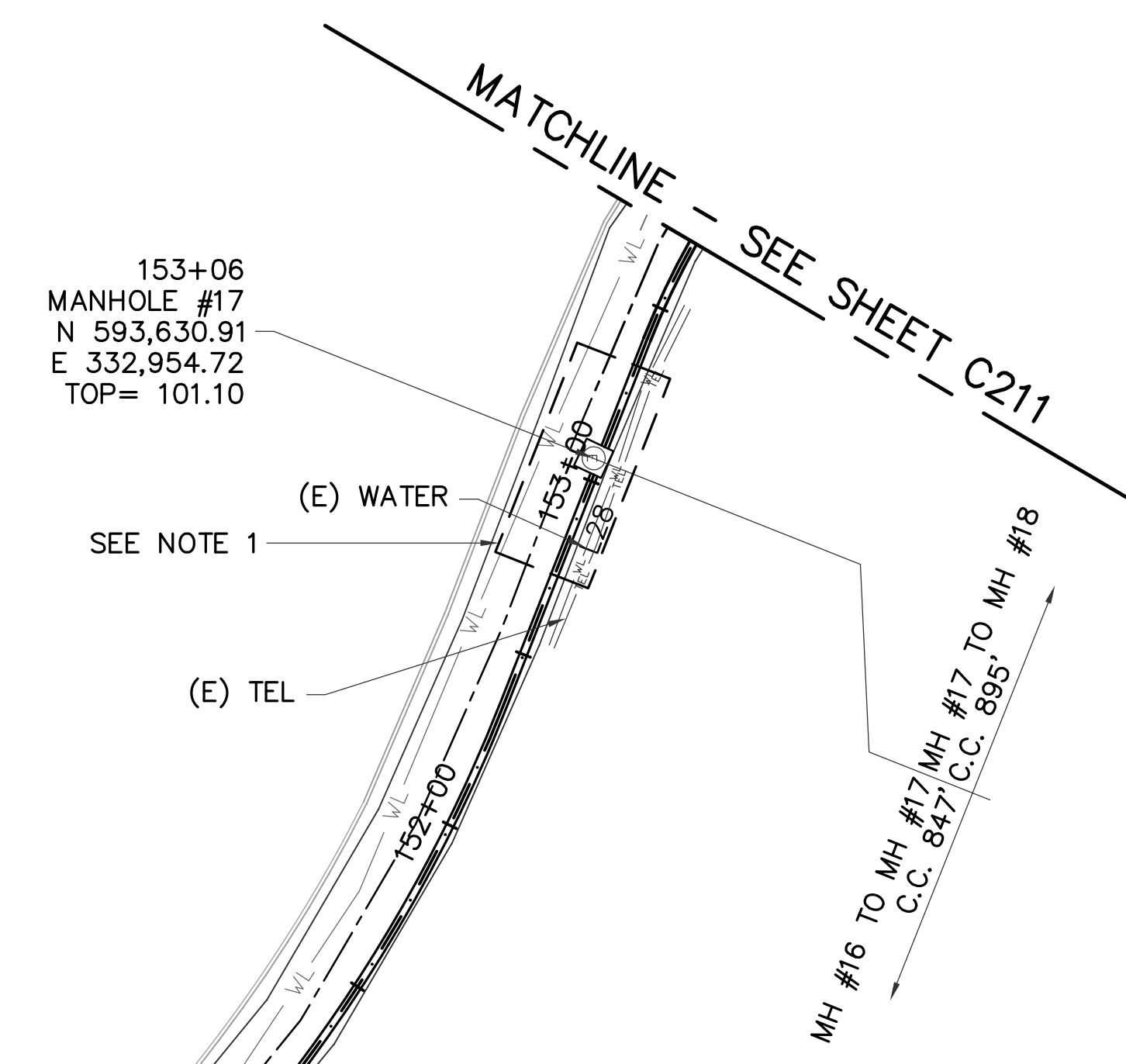
**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

C209

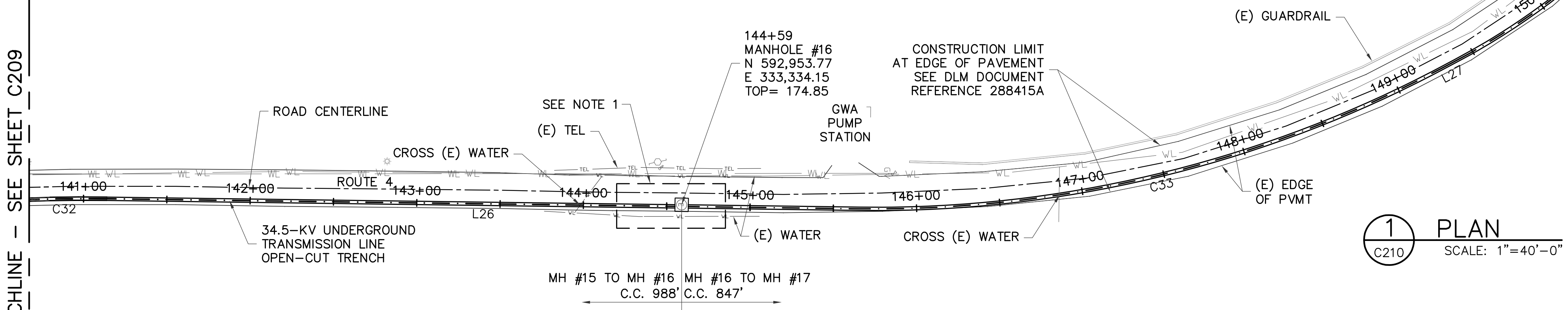
<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> <small>CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT &amp; LAND SURVEYING</small> <small>125 Tula Hevia Circle, Suite 300, Agaña, Guam 96913-3003</small> <small>email: tce@tc-engr.com</small> <small>tel: (671) 947-0888 fax: (671) 947-0886</small>		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-015 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM SHEET TITLE: T-LINE PLAN AND PROFILE (MH15)	JOB ORDER NO: 100143 SCALE: AS NOTED SHEET NO: 15 OF 47	DATE: 11/04/2015
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.		
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.		



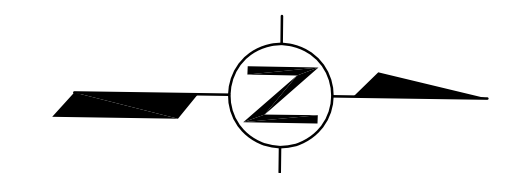
KEYMAP



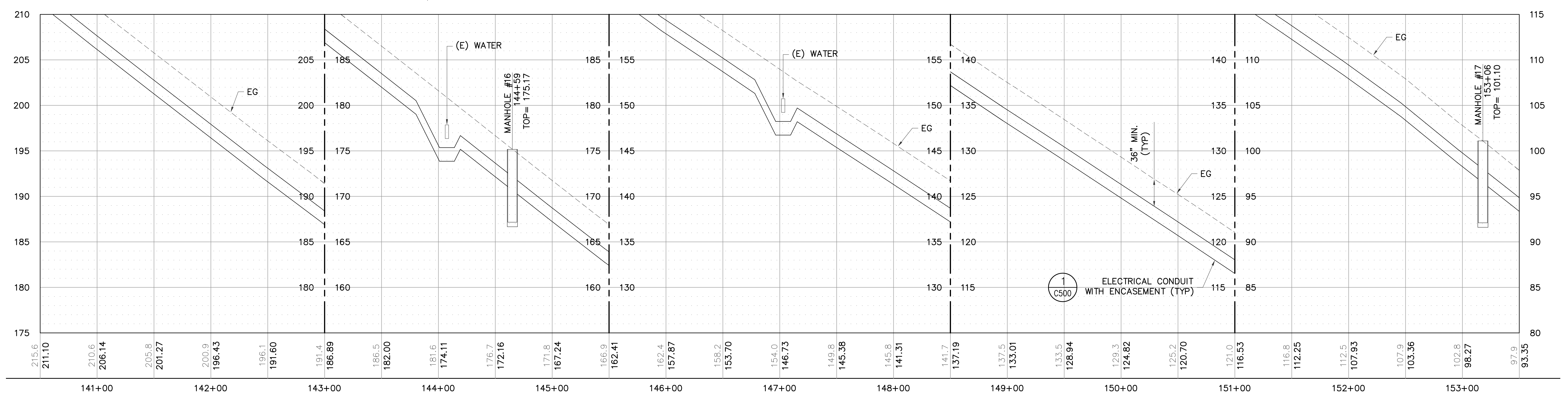
MATCHLINE - SEE SHEET C209



1 PLAN  
C210 SCALE: 1"=40'-0"



20 10 0 40 80  
SCALE 1"=40'-0"



2 PROFILE  
C210 SCALE: HOR 1"=40'-0" VER 1"=5'-0"

**LEGEND:**

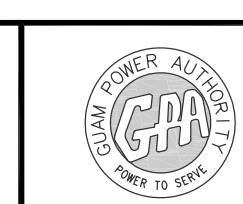
- 1 BEGIN OPEN-CUT TRENCH
- 2 END OPEN-CUT TRENCH
- 3 BEGIN TRENCHLESS BORE
- 4 END TRENCHLESS BORE

**NOTE:**

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

**AS-BUILT**  
NOVEMBER 04, 2015

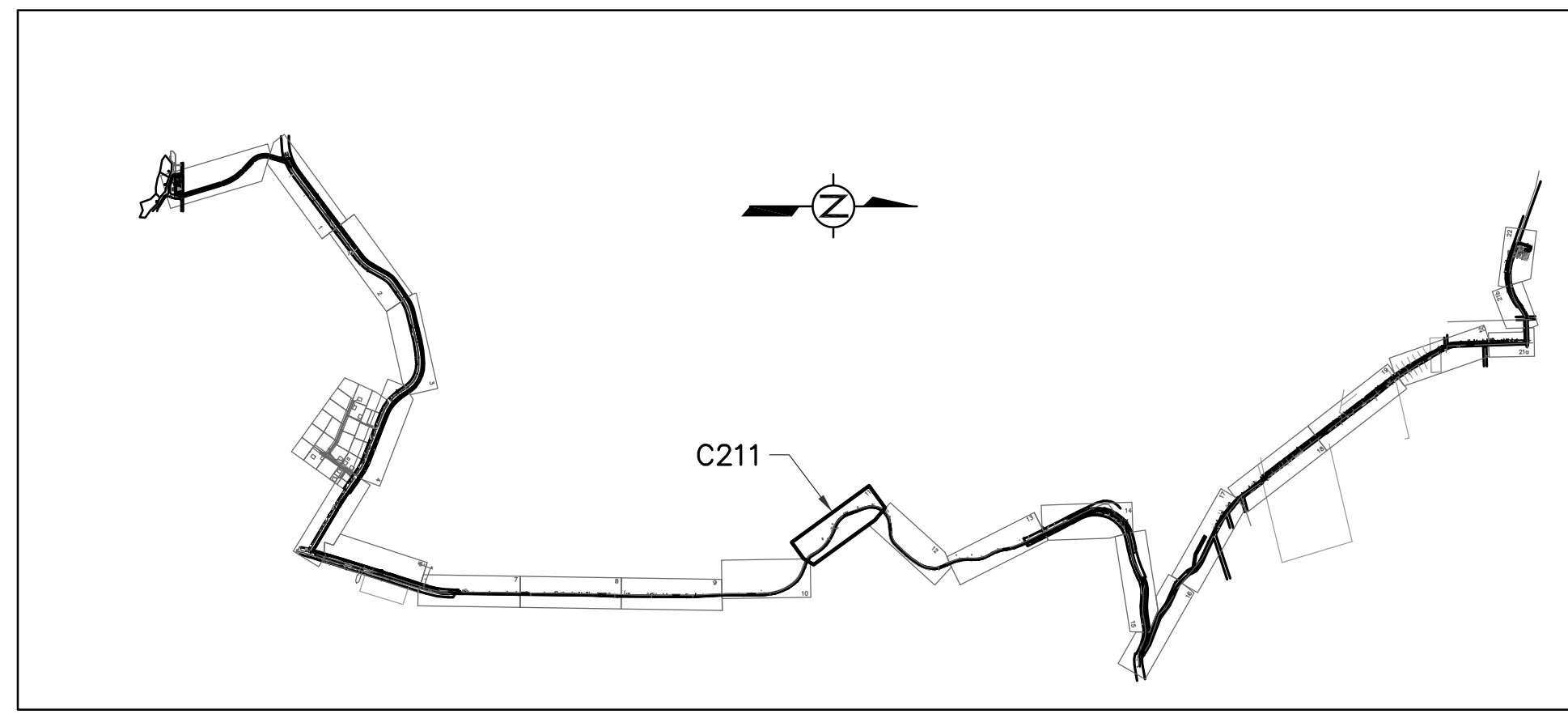
**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tula Heza Circle, Suite 300  
Agaña, Guam 96913-3003  
email: tce@tc-engr.com  
tel: (671)943-0888 fax: (671)943-0886



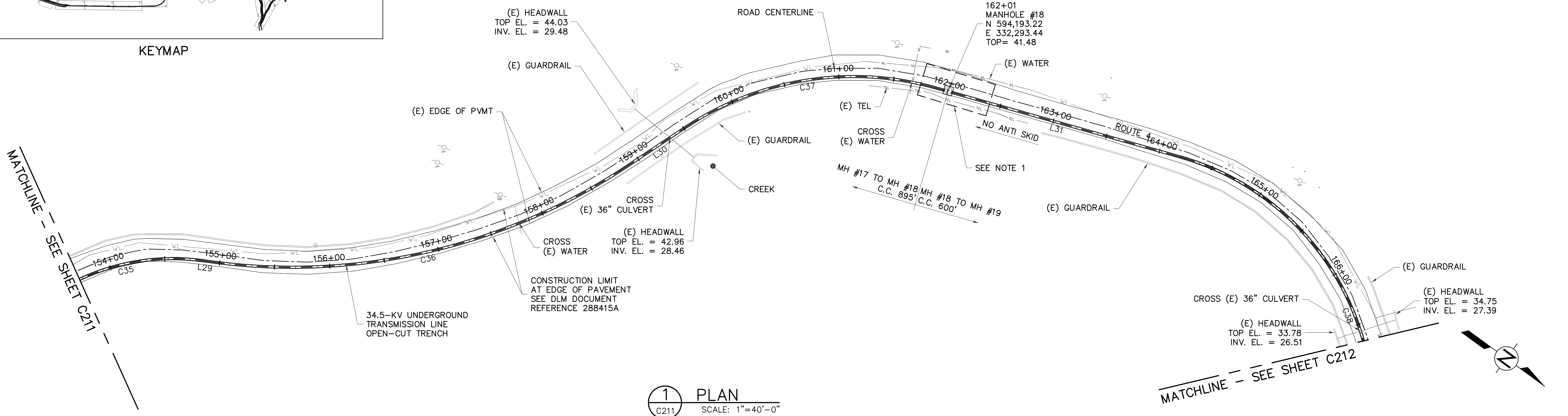
**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

**C210**

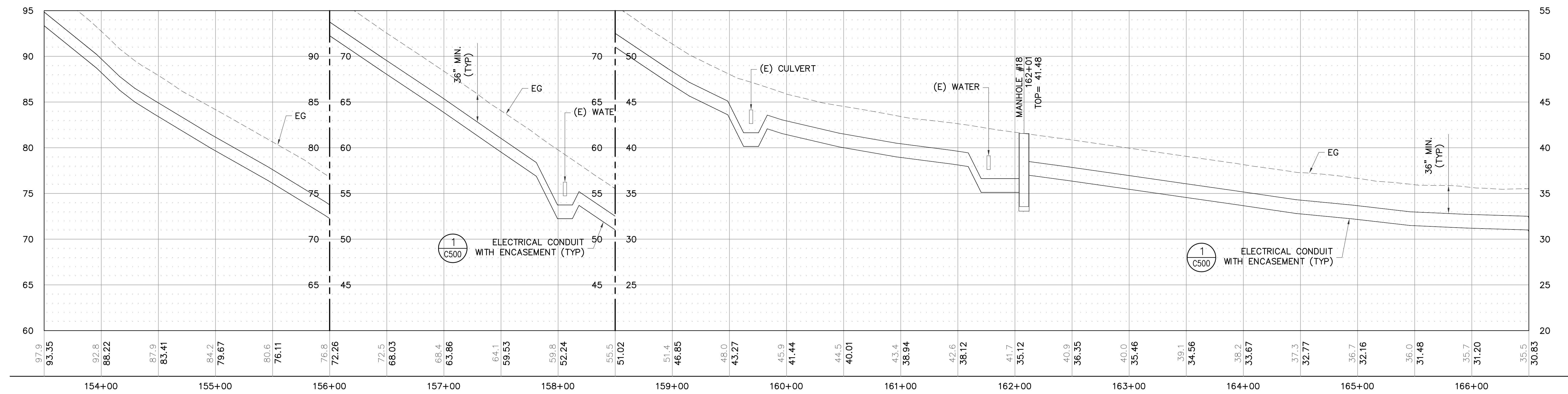
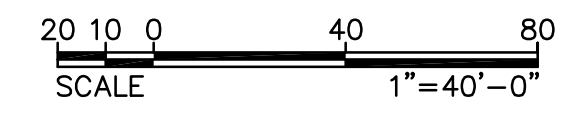
DRAWING NO: 001-14-016		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH16 TO MH17)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 16 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE: 11/04/2015	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:



KEYMAP



1 PLAN SCALE: 1"=40'-0"



2 PROFILE SCALE: HOR 1"=40'-0" VER 1"=5'-0"

LEGEND:

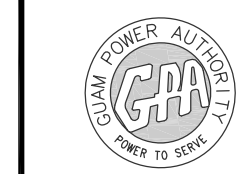
- 1 BEGIN OPEN-CUT TRENCH
- 2 END OPEN-CUT TRENCH
- 3 BEGIN TRENCHLESS BORE
- 4 END TRENCHLESS BORE

NOTE:

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

AS-BUILT  
NOVEMBER 04, 2015

**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tot. Area, Gaisano St.  
Tampara, Agaña 96913-3023  
email: tce@tc-engr.com  
Tel: (671)943-0888 Fax: (671)943-0886

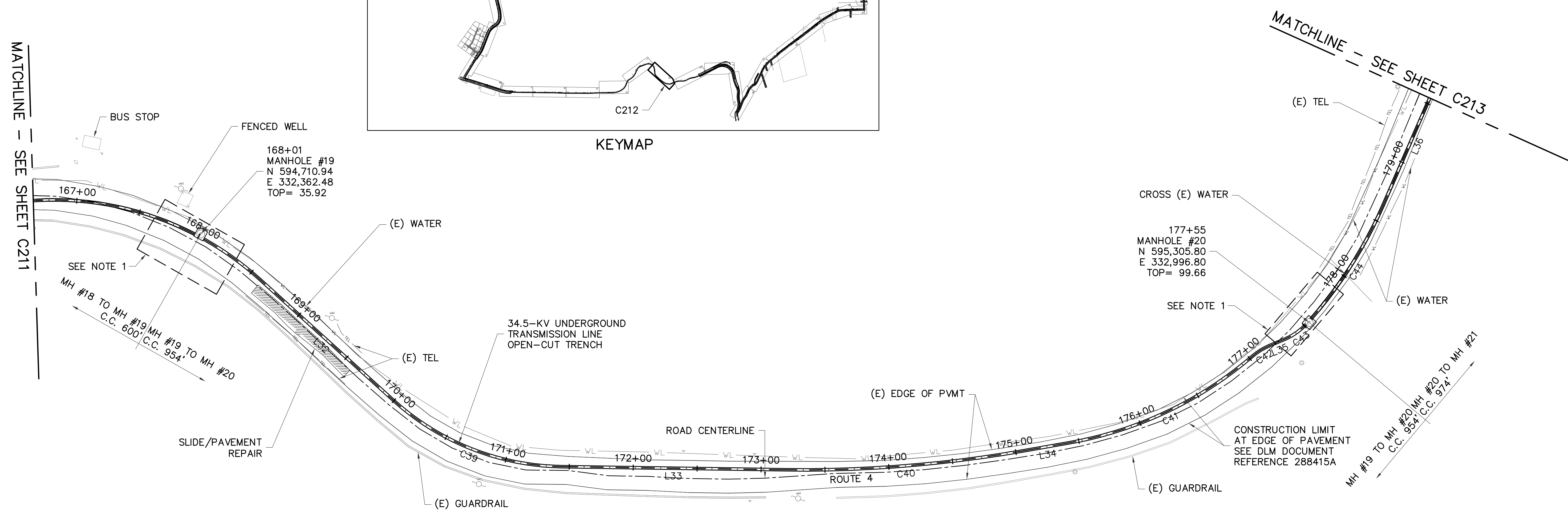
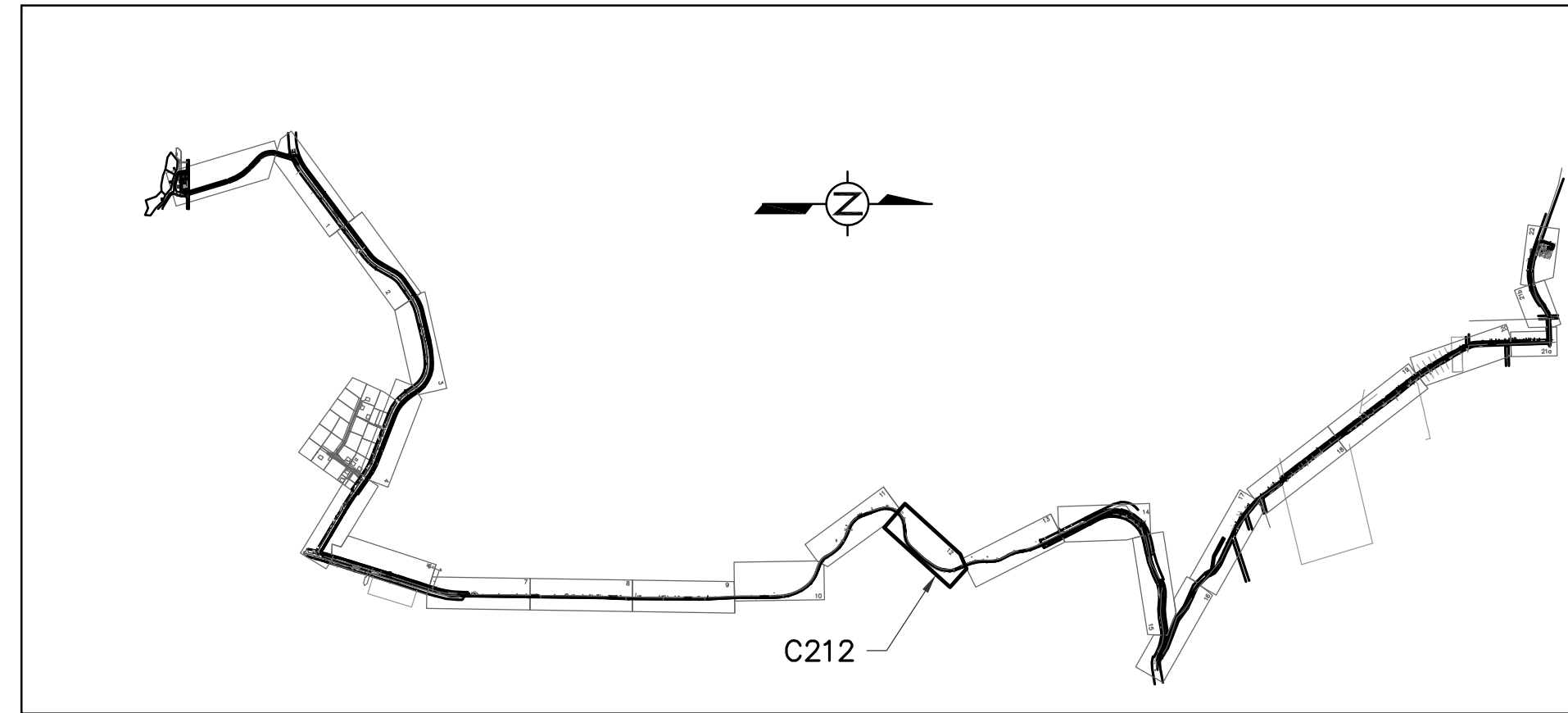


**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

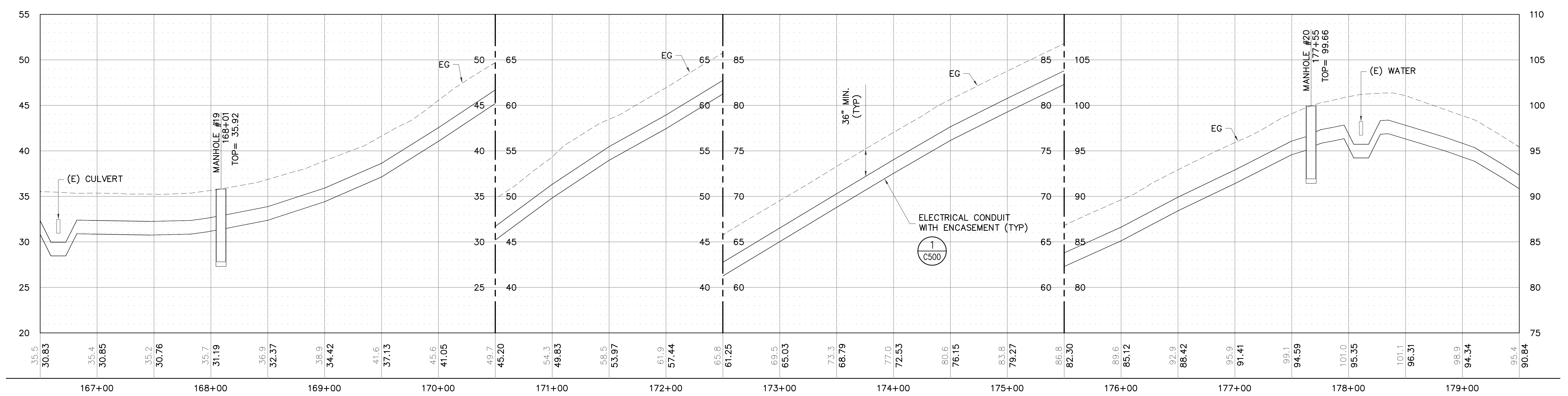
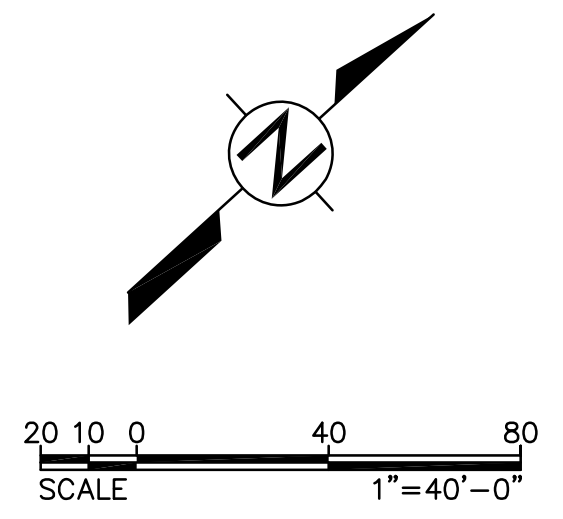
C211

DRAWING NO: 001-14-017		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH18)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 17 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:





**1 PLAN**  
SCALE: 1"=40'-0"

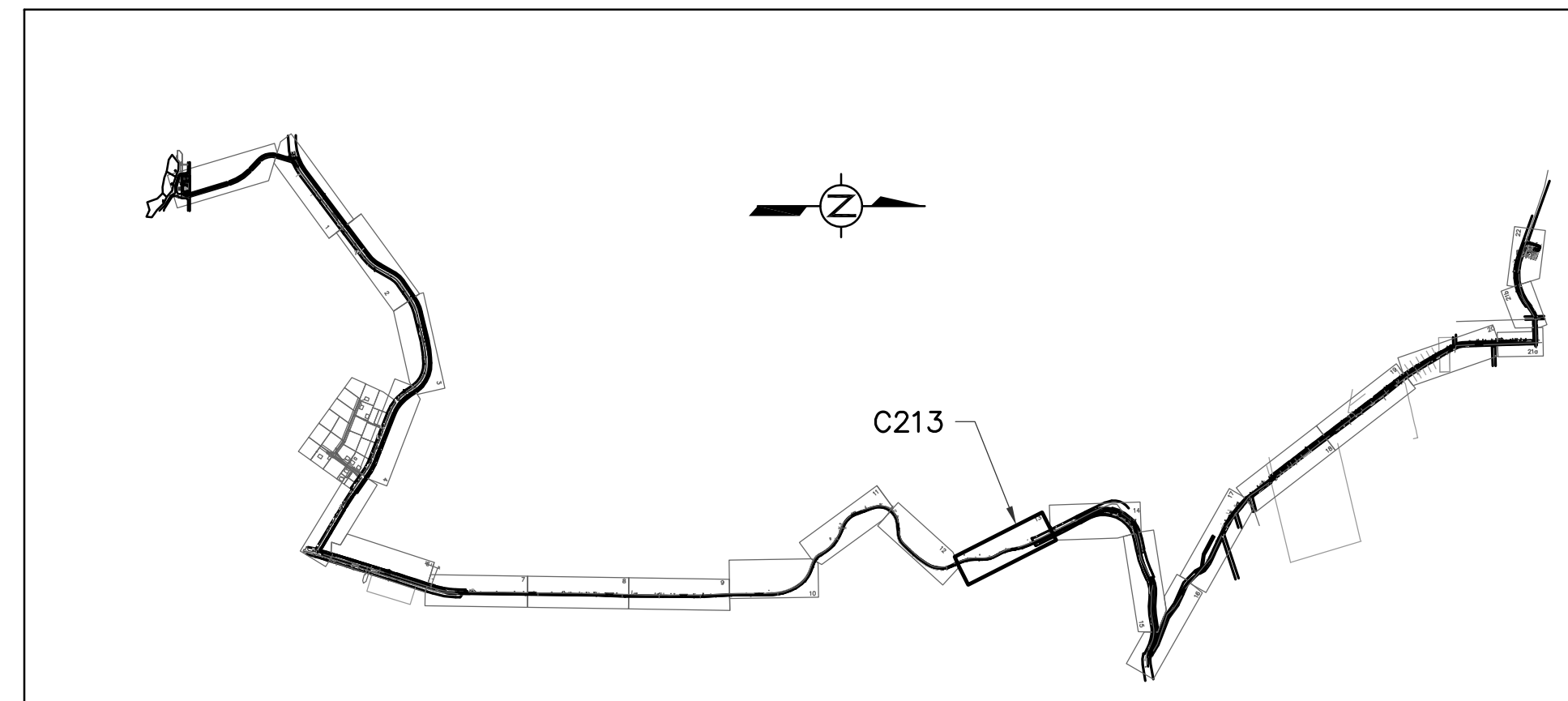
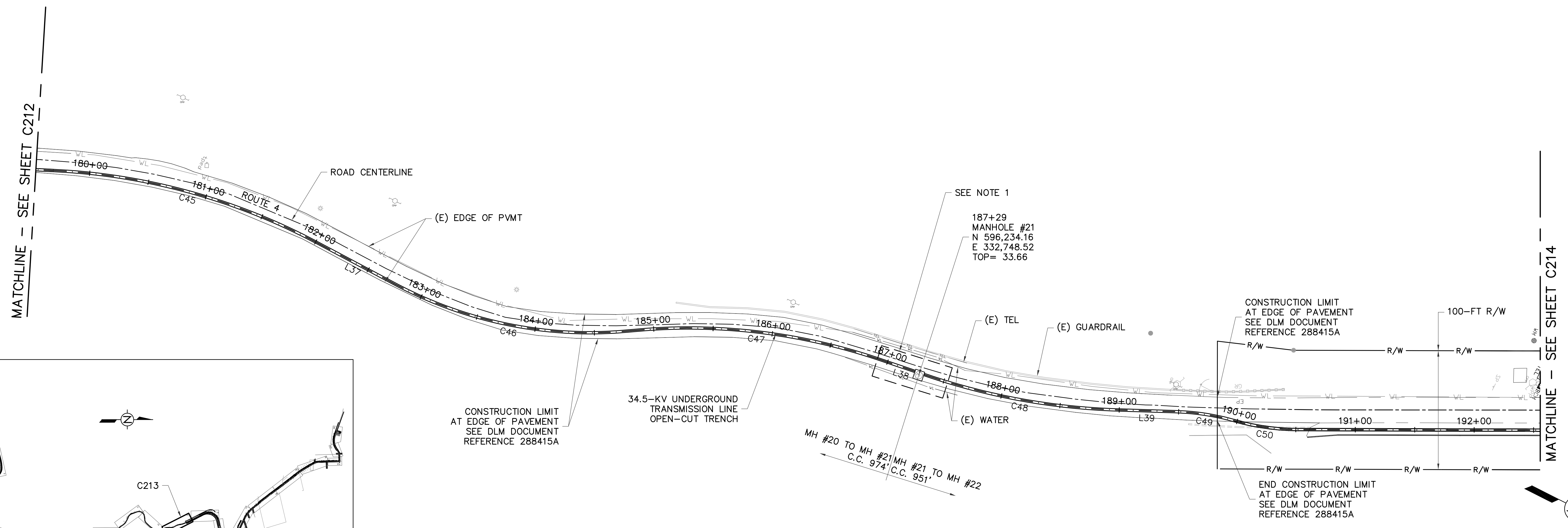


**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

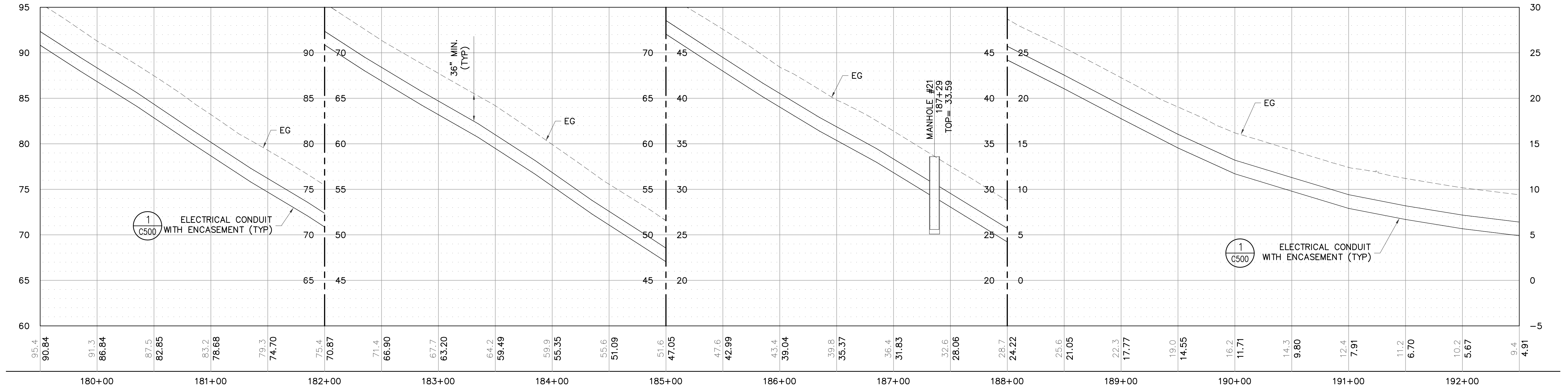
- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE
- NOTE:**
- 1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

**C212**

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> <small>CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT &amp; LAND SURVEYING</small> <small>125 Tula Plaza, Suite 300, Agaña, Guam 96913-3003</small> <small>email: tce@tc-engr.com</small> <small>tel: (671)943-0888 fax: (671)943-0886</small>	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-018 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH19 TO MH20) JOB ORDER NO: 100143 SCALE: AS NOTED SHEET NO: 18 OF 47	
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	



1 PLAN  
SCALE: 1"=40'-0"



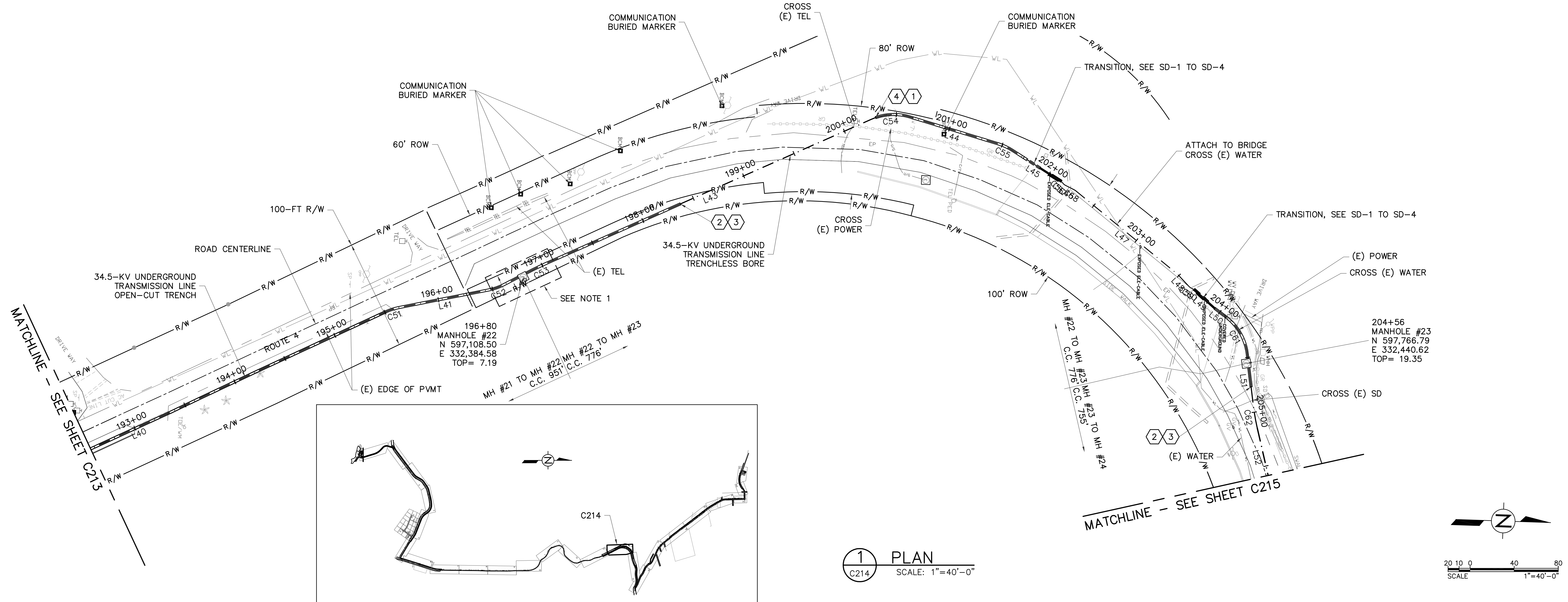
2 PROFILE  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

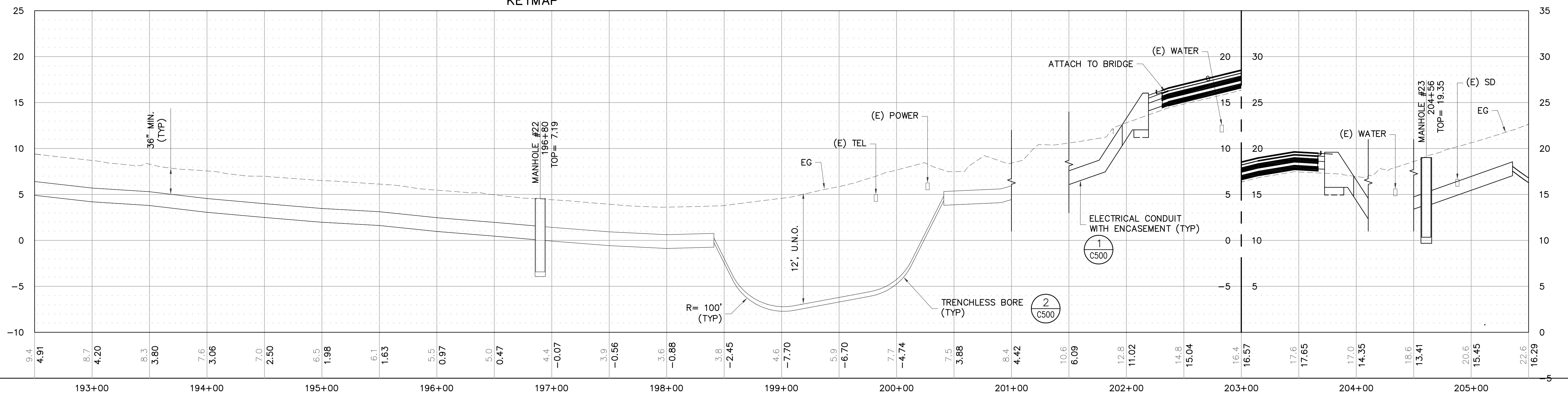
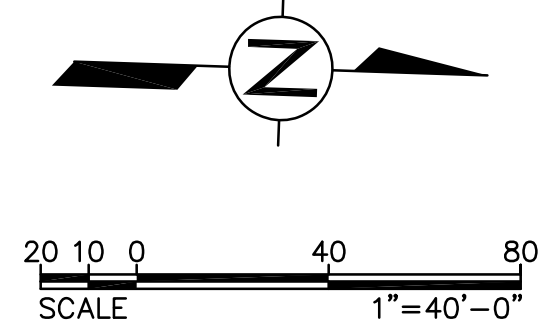
NOTE:  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

C213

AS-BUILT NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> <small>CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT &amp; LAND SURVEYING</small> <small>125 Tula Ave. Suite 302, Agaña, Guam 96913-3023</small> <small>email: torg@tc-engr.com</small> <small>tel: (671)943-0888 fax: (671)943-0886</small>		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-019 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH21) DATE: 11/04/2015 ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E. MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	JOB ORDER NO: 100143 SCALE: AS NOTED SHEET NO: 19 OF 47 ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E. GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:



1 PLAN  
SCALE: 1"=40'-0"



2 PROFILE  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

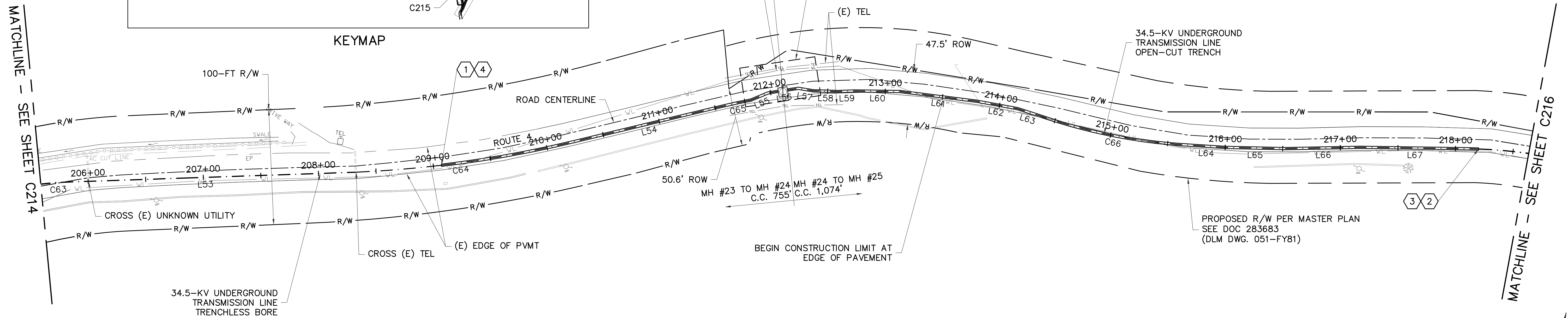
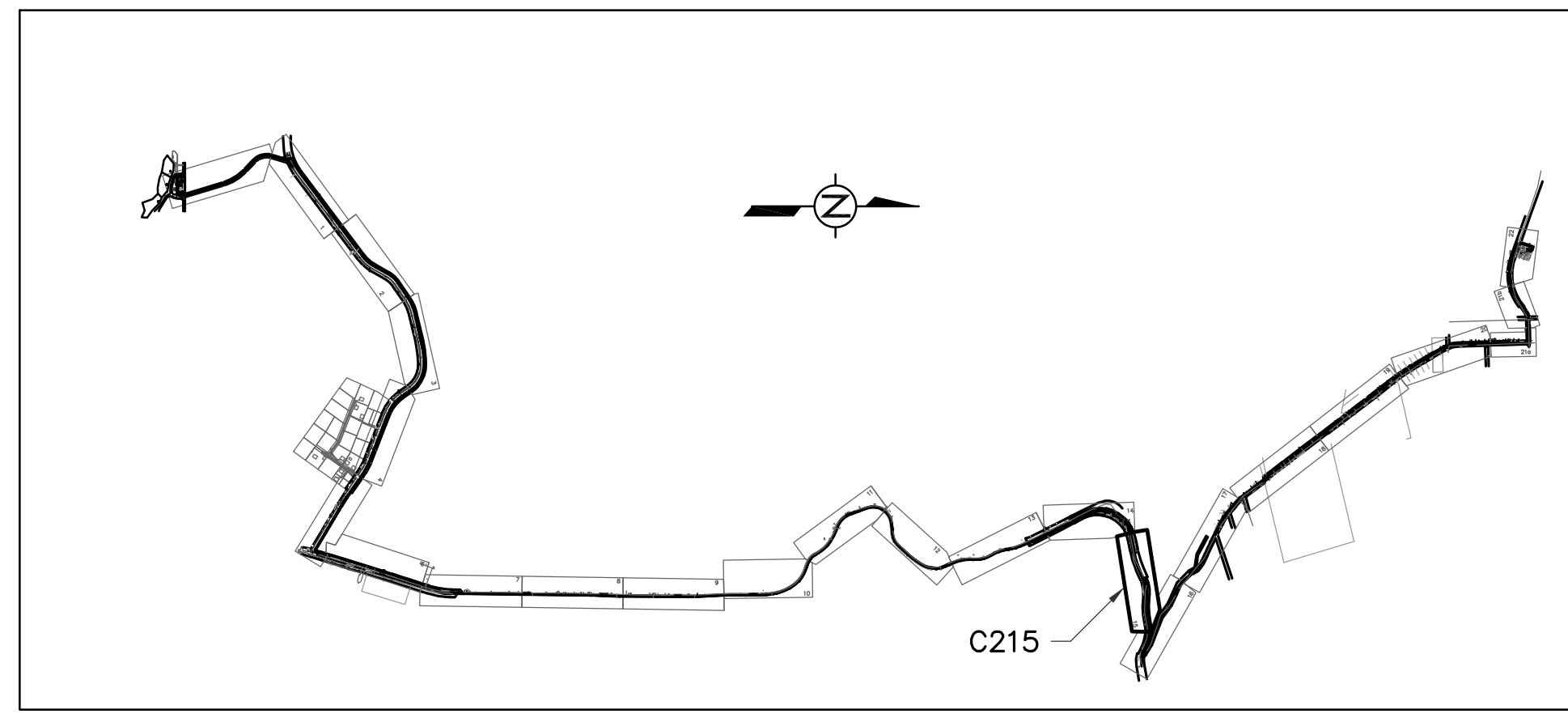
- LEGEND:**
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

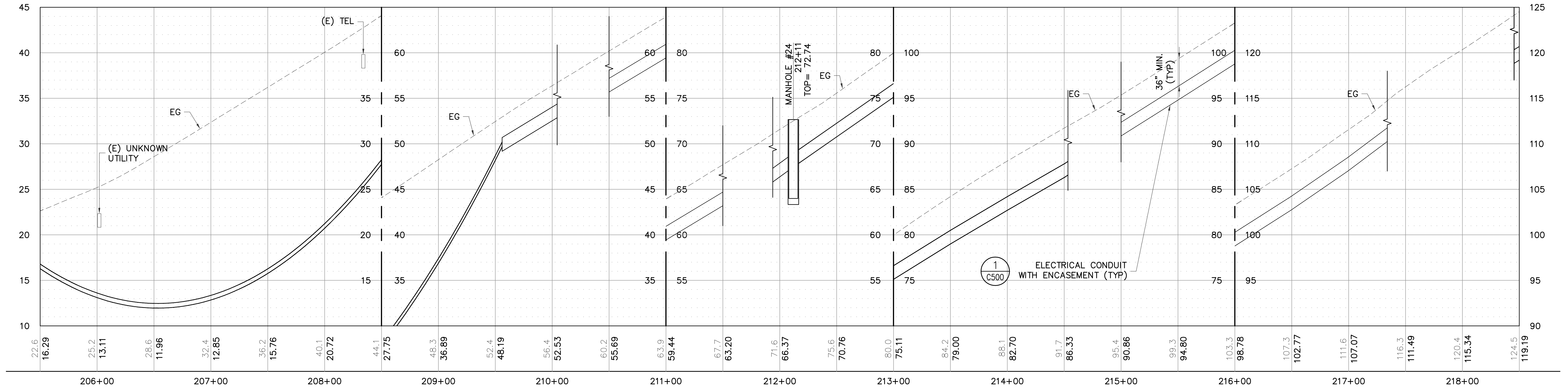
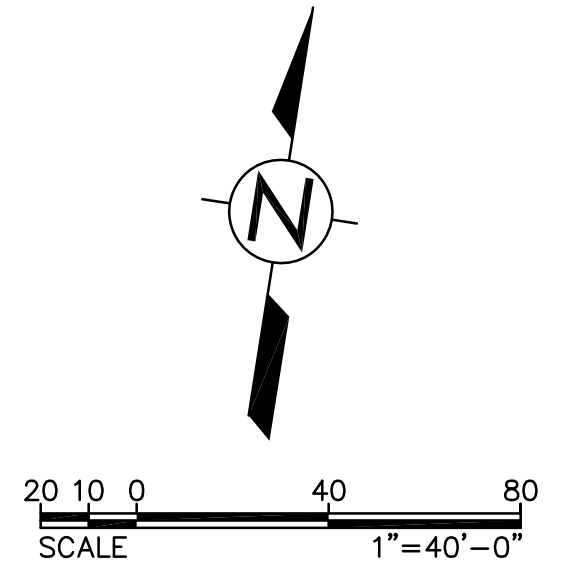
C214

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Road, Agaña, GUAM Tel: (671) 943-0888 Fax: (671) 943-0886	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-020 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E. MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	SHEET TITLE: T-LINE PLAN AND PROFILE (MH22 TO MH23) SCALE: AS NOTED SHEET NO: 20 OF 47	





**1 PLAN**  
SCALE: 1"=40'-0"



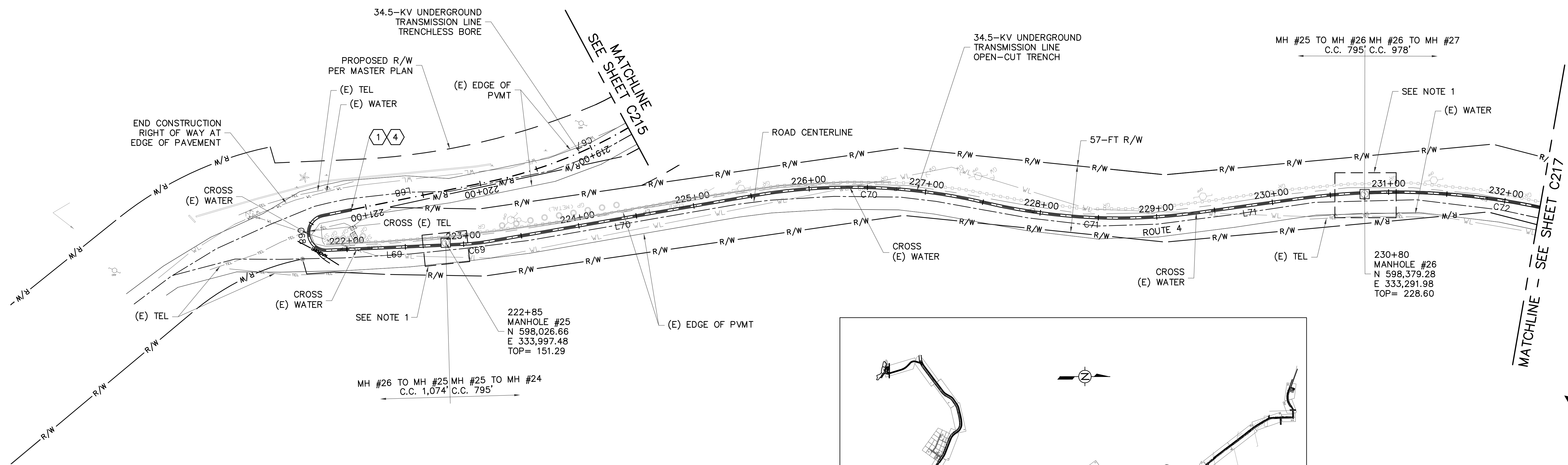
**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE

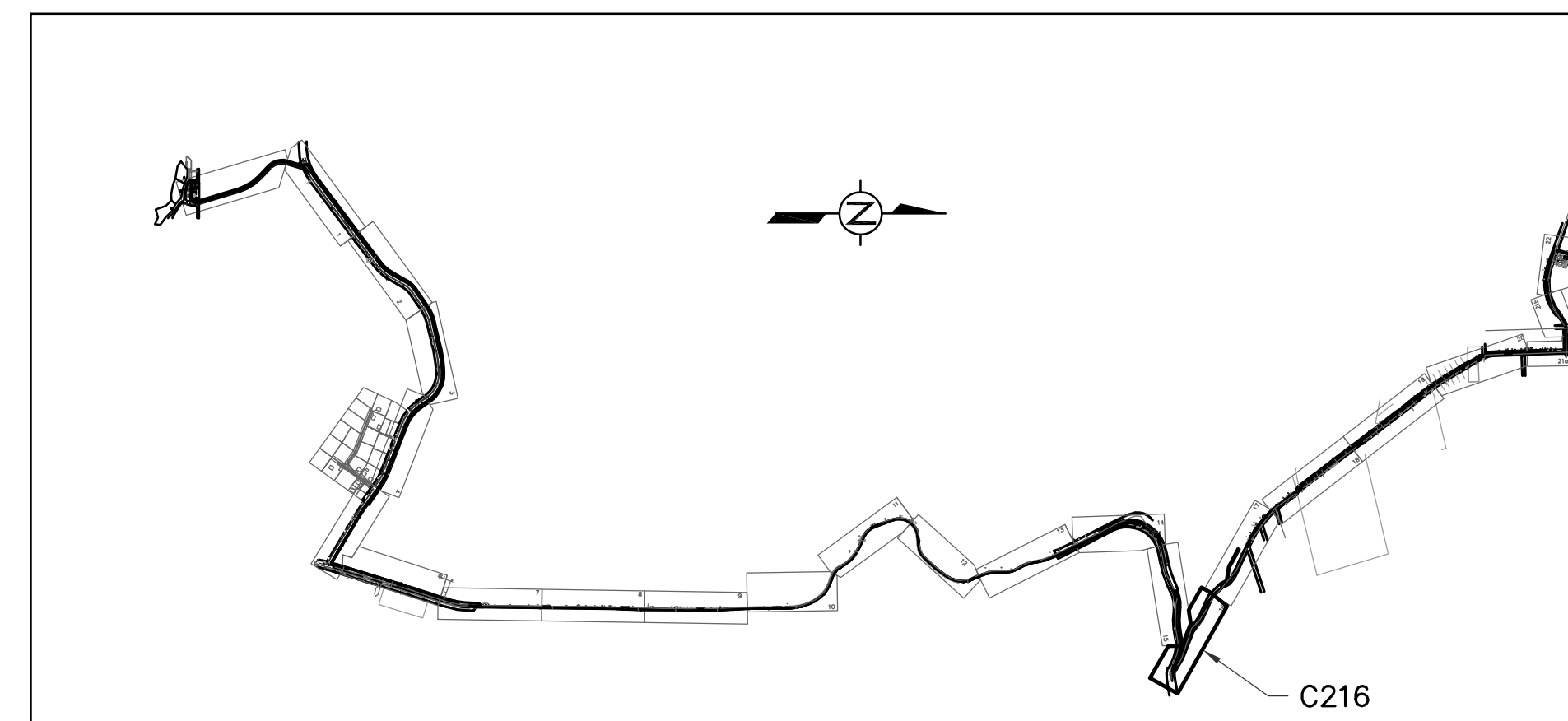
**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING <small>125 Tula Ave. Suite 300 Agaña, Guam 96913-3003 email: tce@tc-engr.com tel: (671)943-0808 fax: (671)943-0886</small>		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-021		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE		SHEET TITLE: T-LINE PLAN AND PROFILE (MH24)		
DRAWN: JA/RJ		JOB ORDER NO: 100143		
CHECKED BY: TG/JE		DATE: 11/04/2015		
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		SCALE: AS NOTED		
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		SHEET NO: 21 OF 47		
		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.		
		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.		

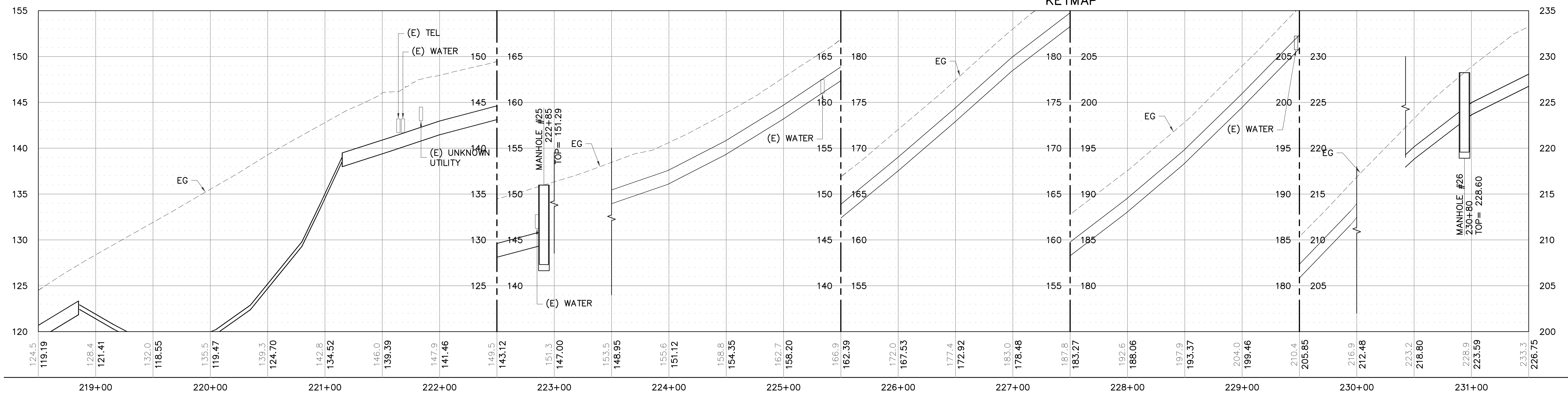
**C215**



1 PLAN  
SCALE: 1"=40'-0"



KEYMAP



2 PROFILE  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

LEGEND:

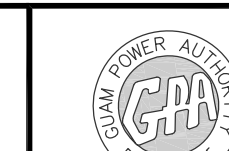
- 1 BEGIN OPEN-CUT TRENCH
- 2 END OPEN-CUT TRENCH
- 3 BEGIN TRENCHLESS BORE
- 4 END TRENCHLESS BORE

NOTE:

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

AS-BUILT  
NOVEMBER 04, 2015

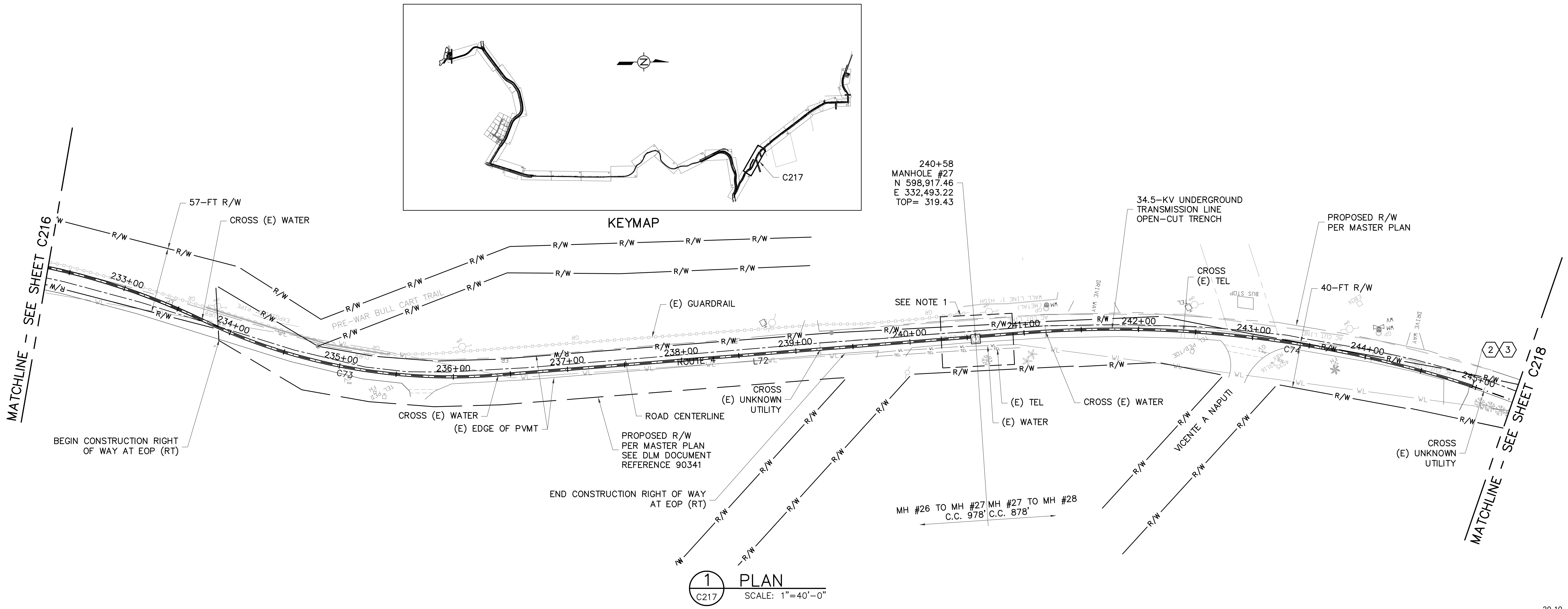
**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tula Heza Circle, Suite 301  
Agaña, Guam 96913-3023  
email: tce@tc-engr.com  
tel: (671) 943-0888 fax: (671) 943-0886



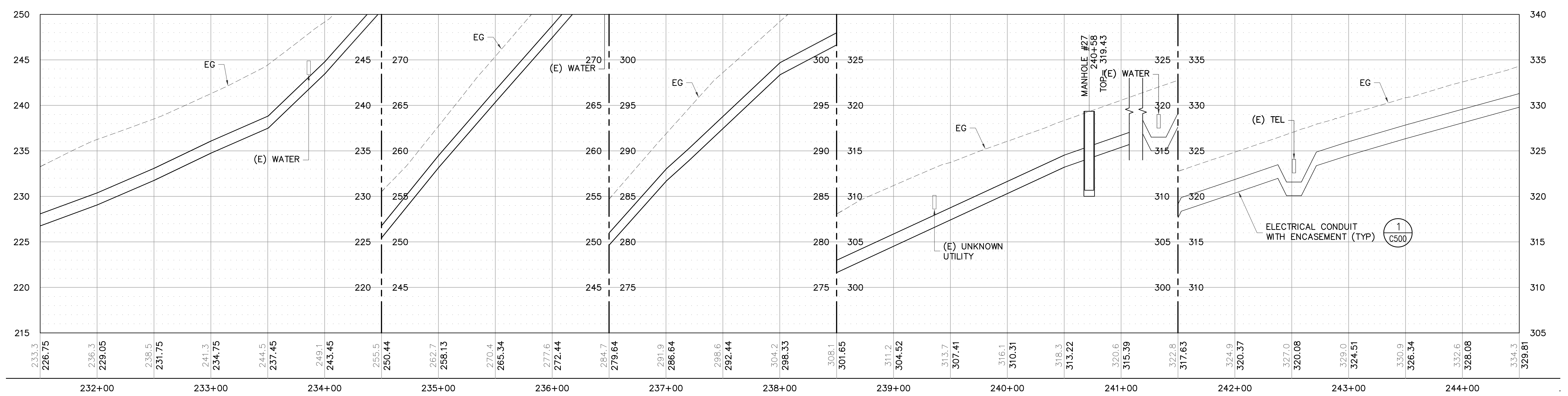
**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

DRAWING NO: 001-14-022	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH25 TO MH26)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 22 OF 47
ENGINEERING SUPERVISOR: IRWIN E. LOYOLA, P.E.	DATE: 11/04/2015	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:

C216



**1 PLAN**  
SCALE: 1"=40'-0"



**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

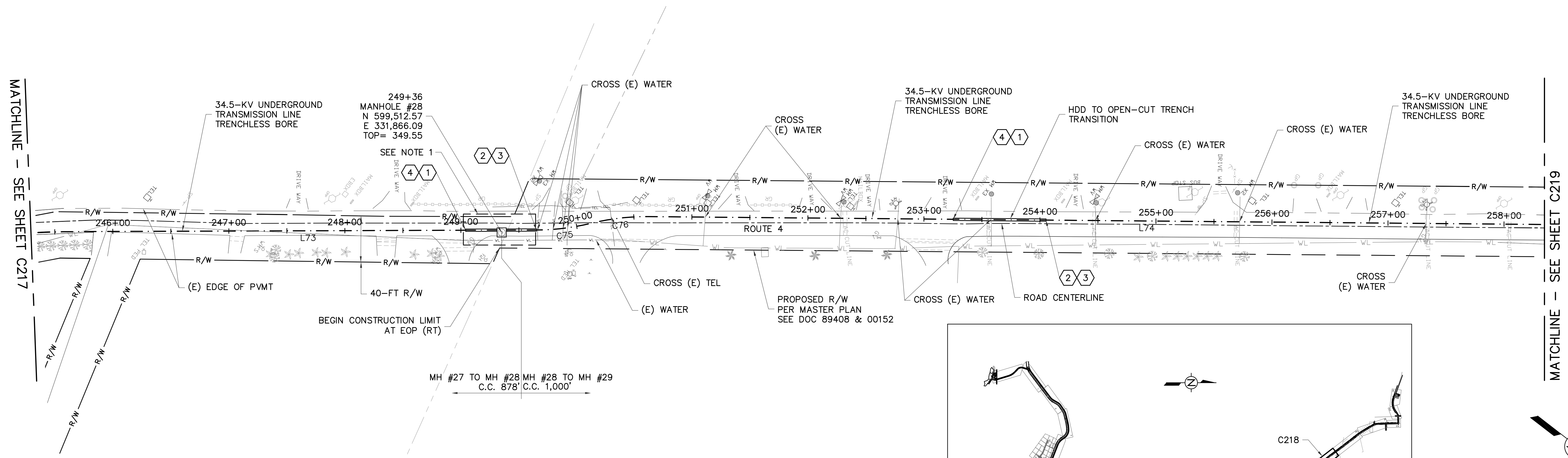
- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE

**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

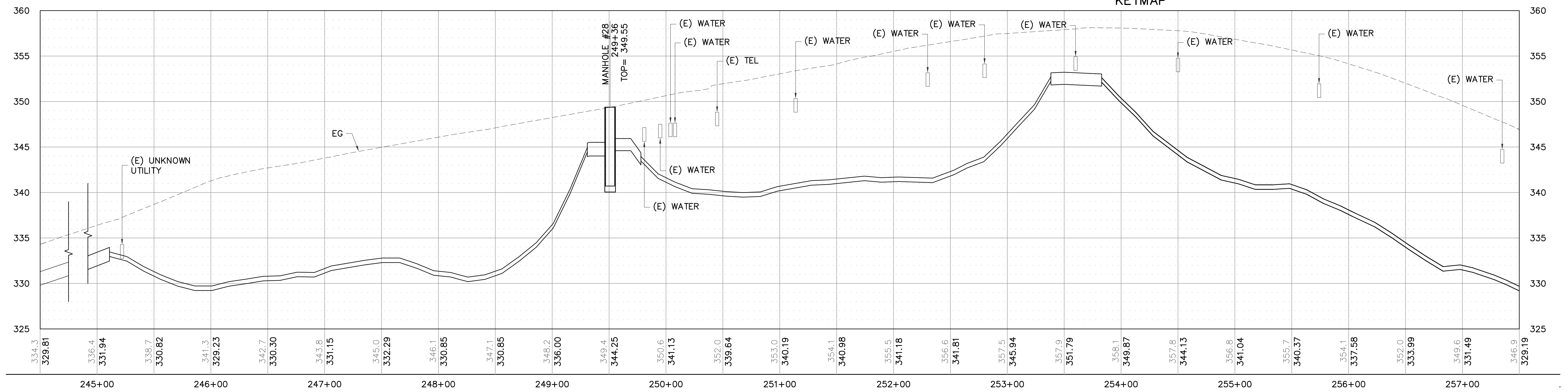
**C217**

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Ave., Suite 202 Tongareva, Guam 96913-3023 email: tce@tc-engr.com tel: (671)943-0888 fax: (671)943-0886		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-023		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE		SHEET TITLE: T-LINE PLAN AND PROFILE (MH27)		
DRAWN: JA/RJ		JOB ORDER NO: 100143		
CHECKED BY: TG/JE		DATE: 11/04/2015		SCALE: AS NOTED
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		DATE:		SHEET NO: 23 OF 47
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		DATE:		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.
		DATE:		GENERAL MANAGER: JOHN M. BENAVENTE, P.E.





**1 PLAN**  
SCALE: 1"=40'-0"



**2 PROFILE**  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

**LEGEND:**

- ① BEGIN OPEN-CUT TRENCH
- ② END OPEN-CUT TRENCH
- ③ BEGIN TRENCHLESS BORE
- ④ END TRENCHLESS BORE

**NOTE:**

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

**AS-BUILT**  
NOVEMBER 04, 2015

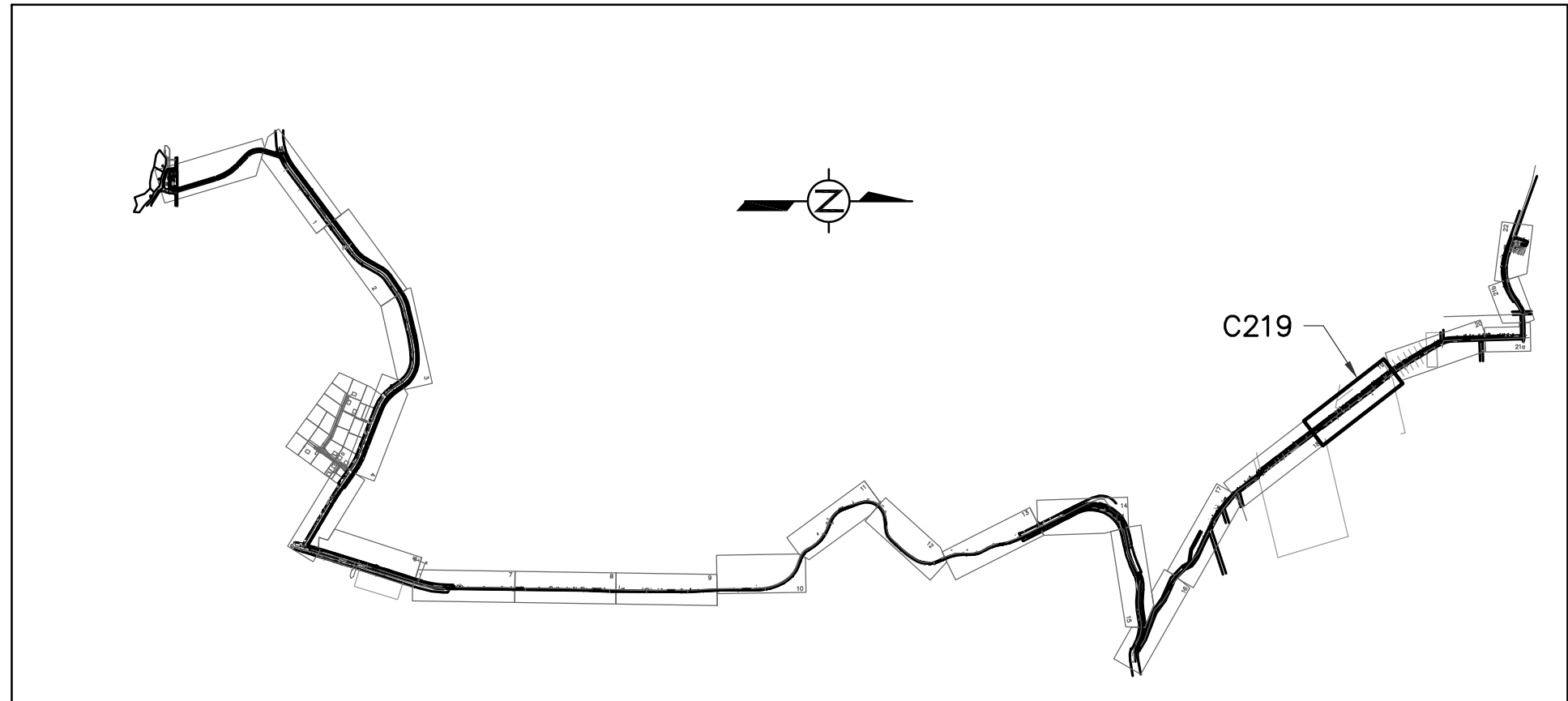
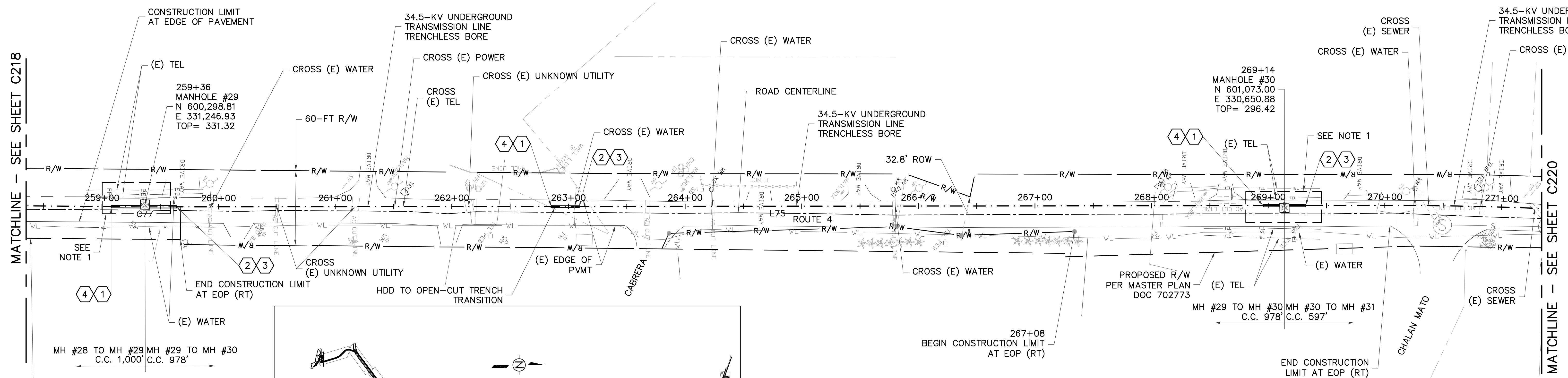
**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tula Road, Agaña, Guam 96910  
Tel: (671) 944-8888 Fax: (671) 944-8886



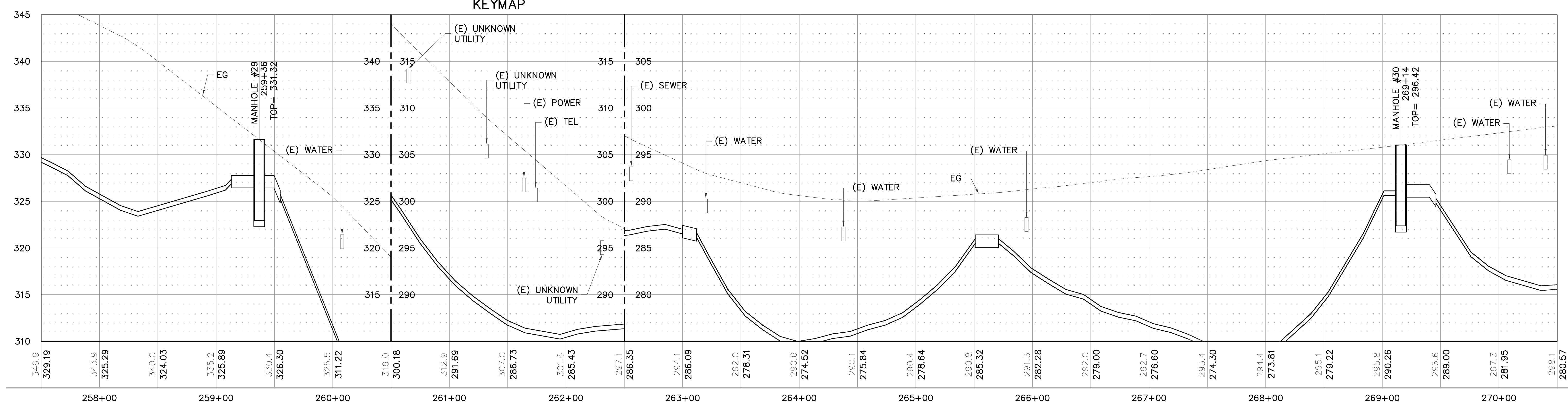
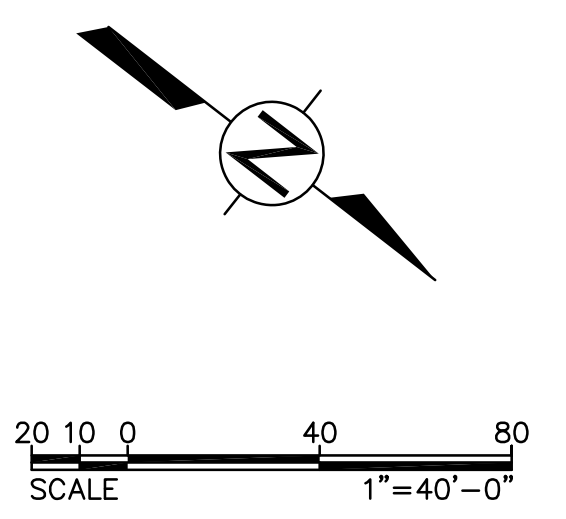
**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

**C218**

DRAWING NO: 001-14-024		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH28)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 24 OF 47
ENGINEERING SUPERVISOR: IRWIN E. LOYOLA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:



1 PLAN  
SCALE: 1"=40'-0"



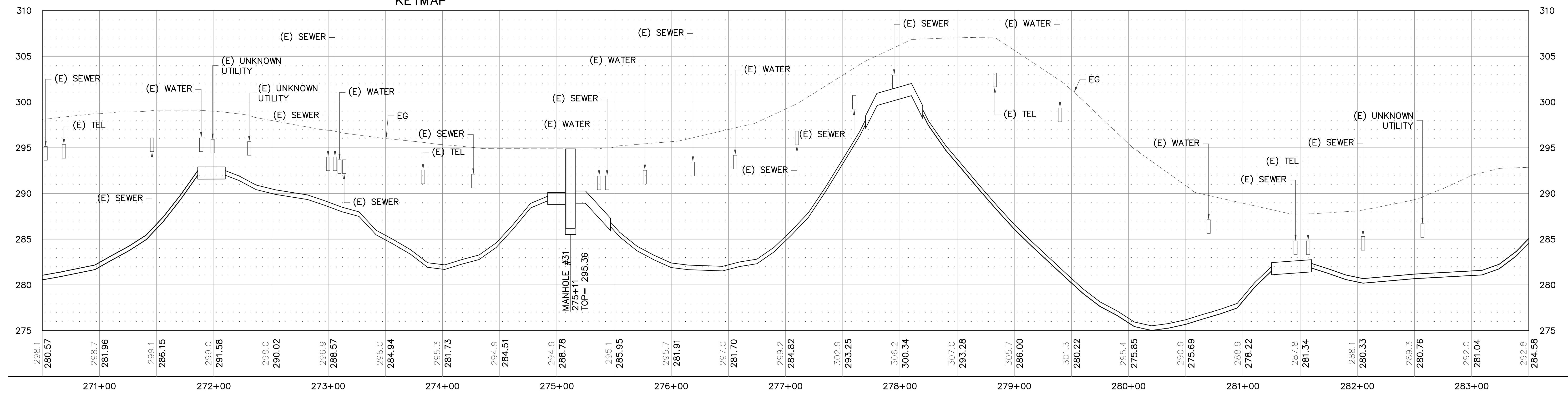
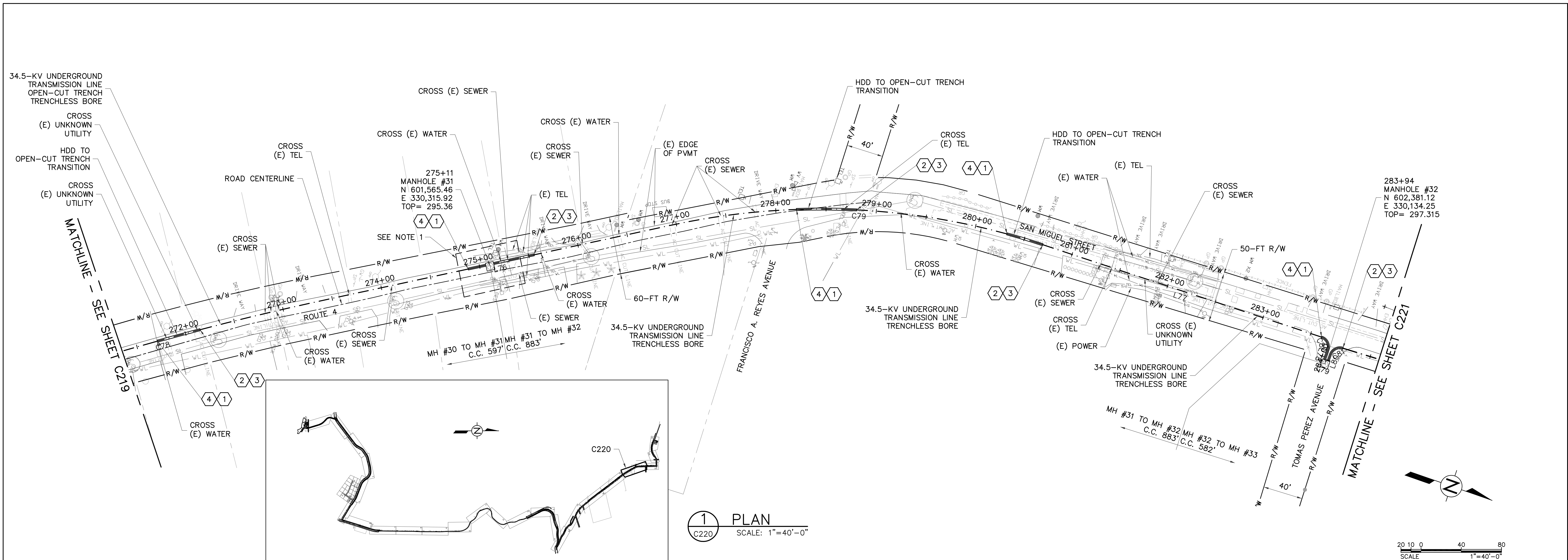
2 PROFILE  
SCALE: HOR 1"=40'-0" VER 1"=5'-0"

- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE

**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

C219

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tet. Ave. Suite 302 Agaña, Guam 96913-3023 email: tce@tc-engr.com tel: (671)843-0888 fax: (671)843-0886	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-025 DESIGNED: JE DRAWN: JA/RJ CHECKED BY: TG/JE ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E. MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	SHEET TITLE: T-LINE PLAN AND PROFILE (MH29 TO MH30) JOB ORDER NO: 100143 DATE: 11/04/2015 SCALE: AS NOTED SHEET NO: 25 OF 47	



**LEGEND:**

- ① BEGIN OPEN-CUT TRENCH
- ② END OPEN-CUT TRENCH
- ③ BEGIN TRENCHLESS BORE
- ④ END TRENCHLESS BORE

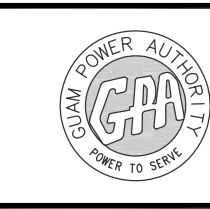
**NOTE:**

1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

② PROFILE  
C220 SCALE: HOR 1"=40'-0" VER 1"=5'-0"

**AS-BUILT**  
NOVEMBER 04, 2015

**TC ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tet Area, Guadalupe St.,  
Tampabay, Guam 96913-3023  
email: tce@tc-engr.com  
Tel: (671)943-0888 Fax: (671)943-0886

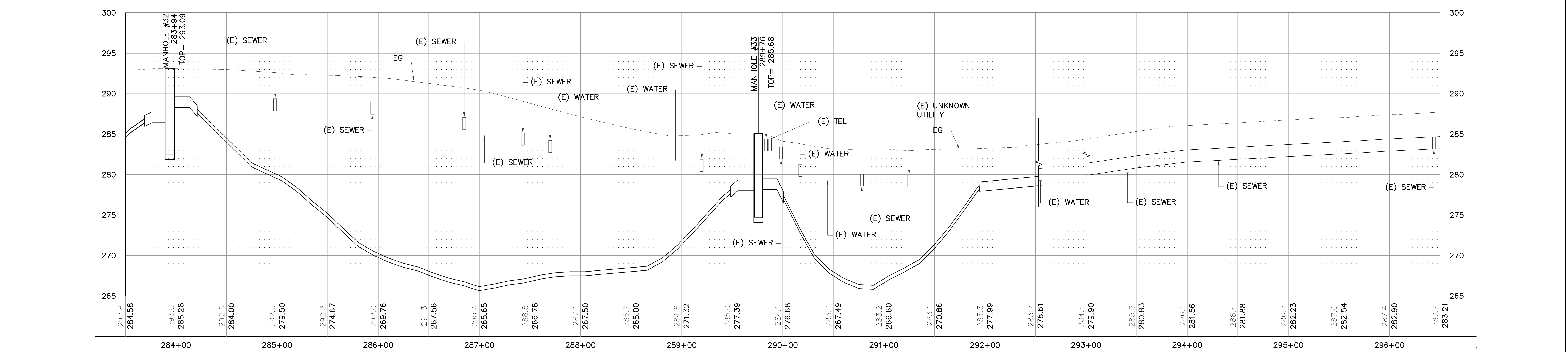
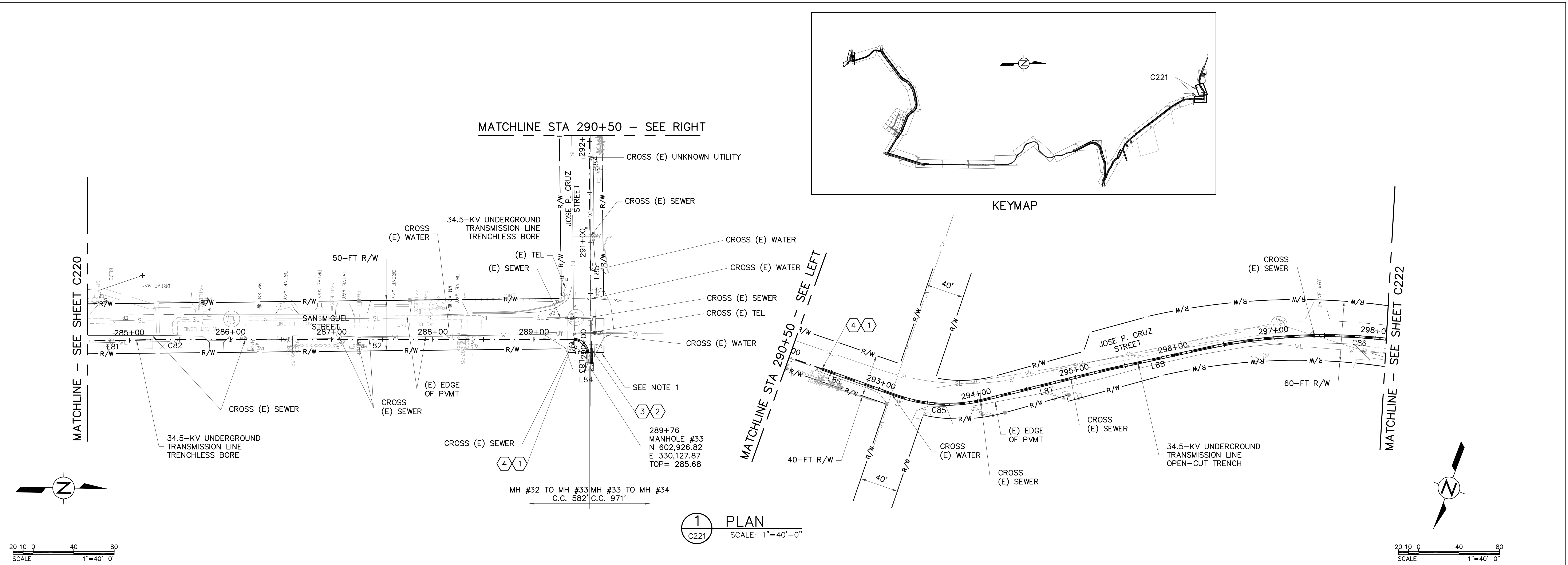


**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

DRAWING NO: 001-14-026	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH31 TO MH32)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE: 11/04/2015	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	SHEET NO: 26 OF 47
ENGINEERING SUPERVISOR: IRWIN E. LOYOLA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	DATE:	DATE:

**C220**

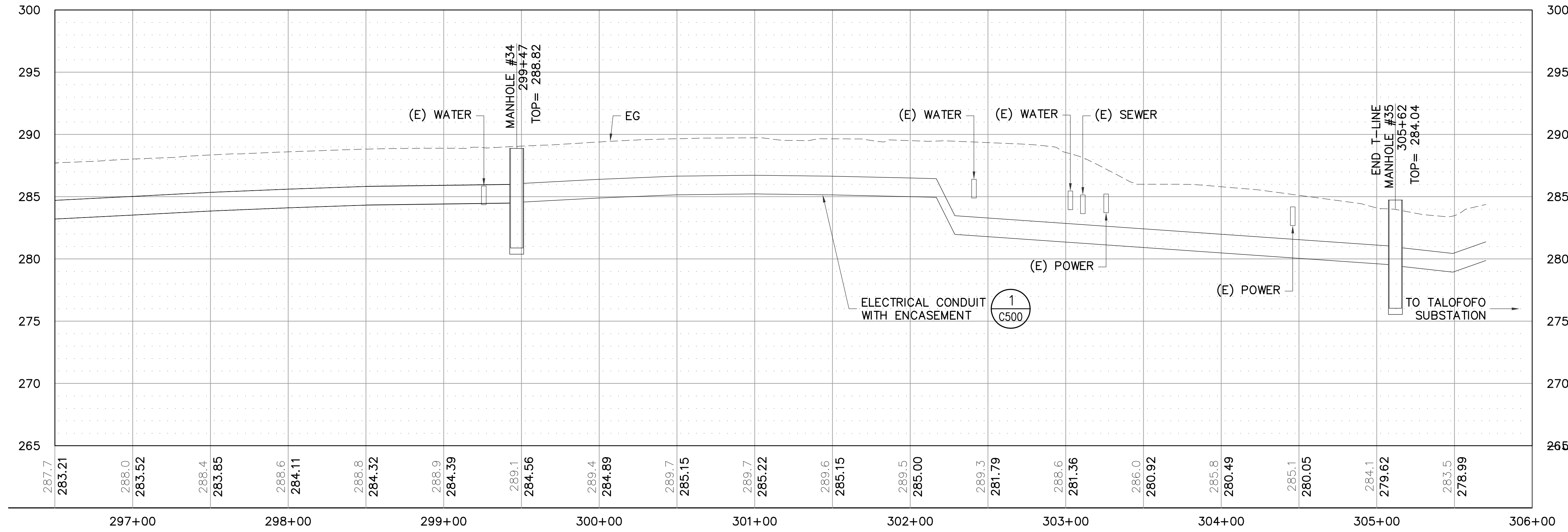
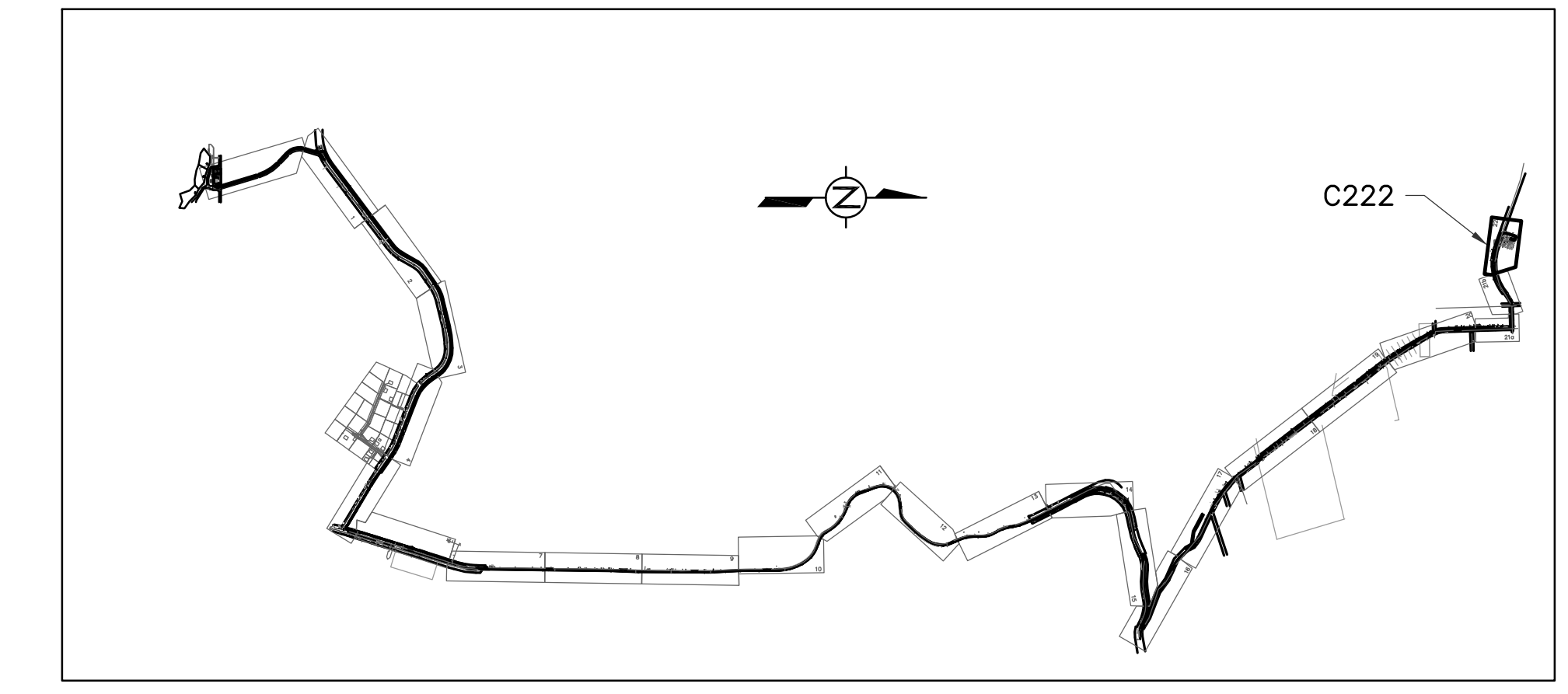
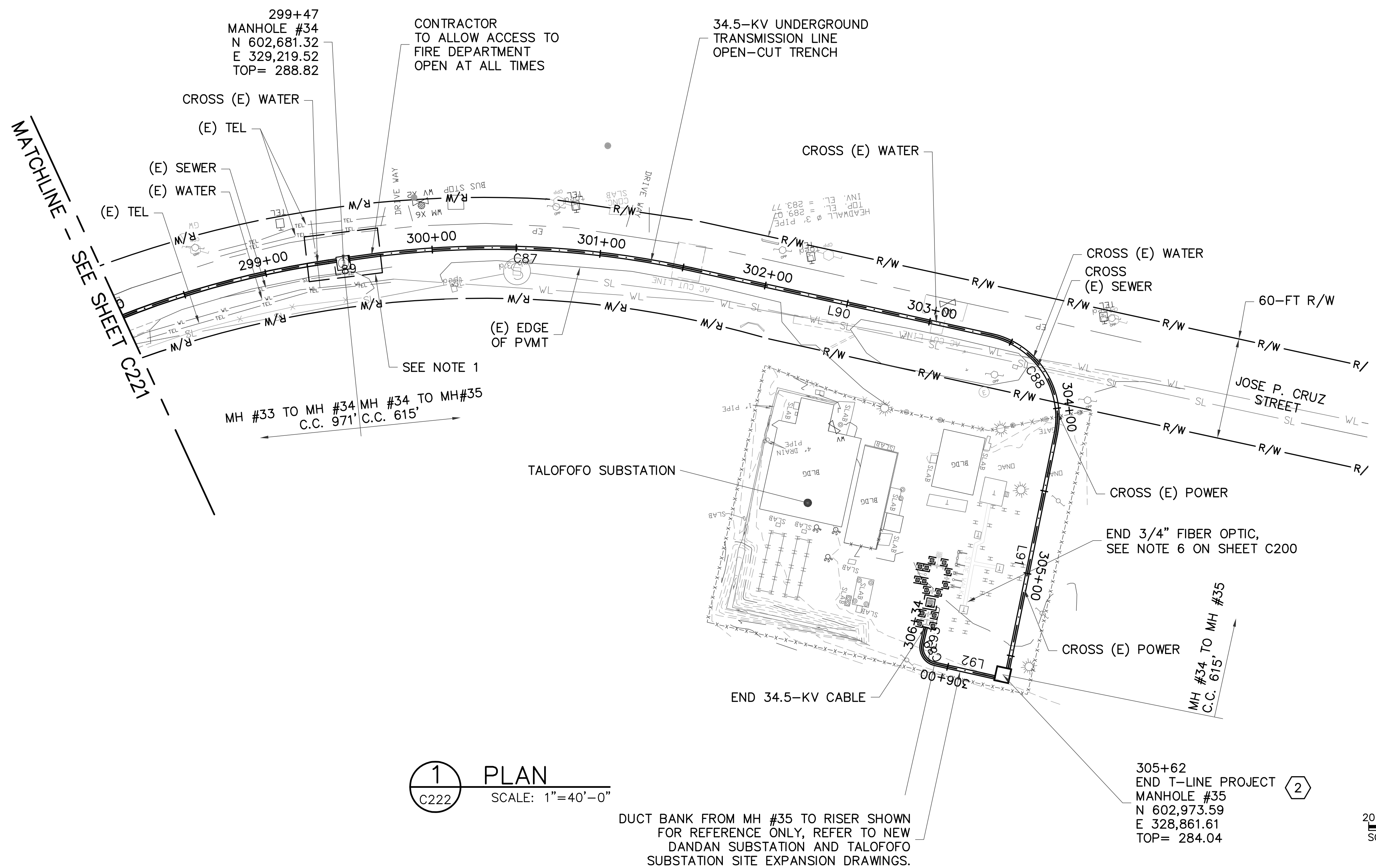




- LEGEND:**
- ① BEGIN OPEN-CUT TRENCH
  - ② END OPEN-CUT TRENCH
  - ③ BEGIN TRENCHLESS BORE
  - ④ END TRENCHLESS BORE
- NOTE:**
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

<b>AS-BUILT</b> NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Plaza, Suite 500 San Jose, Costa Rica 3000 Tel: (506) 221-1000 Fax: (506) 221-1001 Email: tc@tc-engineers.com		<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
	DRAWING NO: 001-14-027		34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM	
DESIGNED: JE		SHEET TITLE: T-LINE PLAN AND PROFILE (MH33)		
DRAWN: JA/RJ		JOB ORDER NO: 100143		
CHECKED BY: TG/JE		DATE: 11/04/2015		SCALE: AS NOTED
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.		DATE: 11/04/2015		SHEET NO: 27 OF 47
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.		DATE: 11/04/2015		ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.
				GENERAL MANAGER: JOHN M. BENAVENTE, P.E.

**C221**



- LEGEND:**
- 1 BEGIN OPEN-CUT TRENCH
  - 2 END OPEN-CUT TRENCH
  - 3 BEGIN TRENCHLESS BORE
  - 4 END TRENCHLESS BORE

**NOTE:**  
1. REFER TO SHEET C200 FOR CONSTRUCTION NOTES.

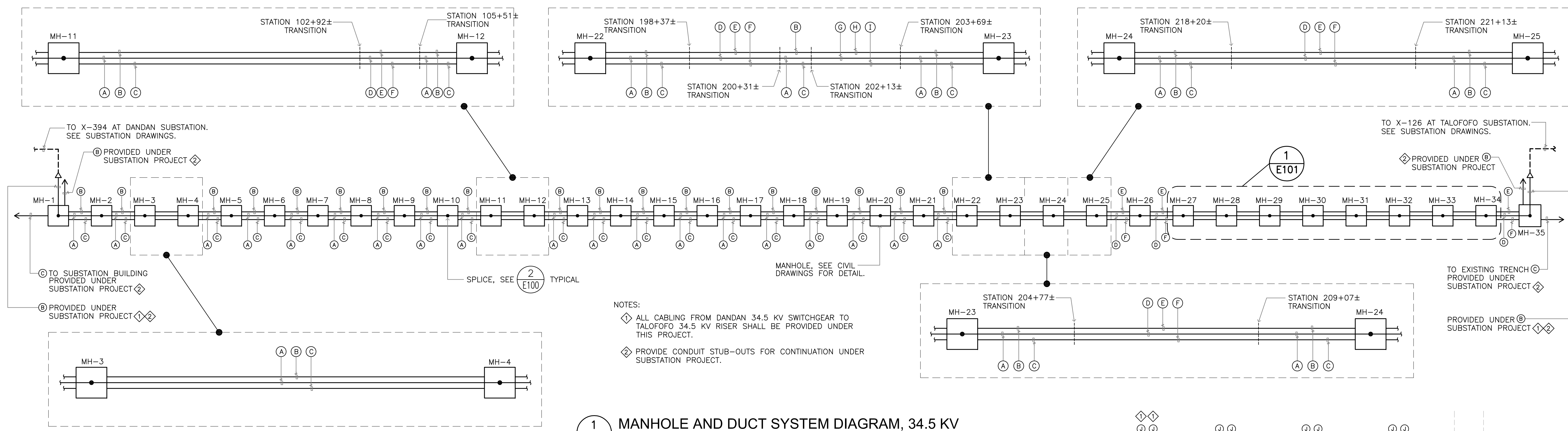
**AS-BUILT**  
NOVEMBER 04, 2015

**TG ENGINEERS, PC**  
CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
MANAGEMENT & LAND SURVEYING  
125 Tula Ave. Suite 301  
Agaña, Guam 96913-3021  
email: tge@tg-engr.com  
Tel: (671)843-0888 Fax: (671)843-0886

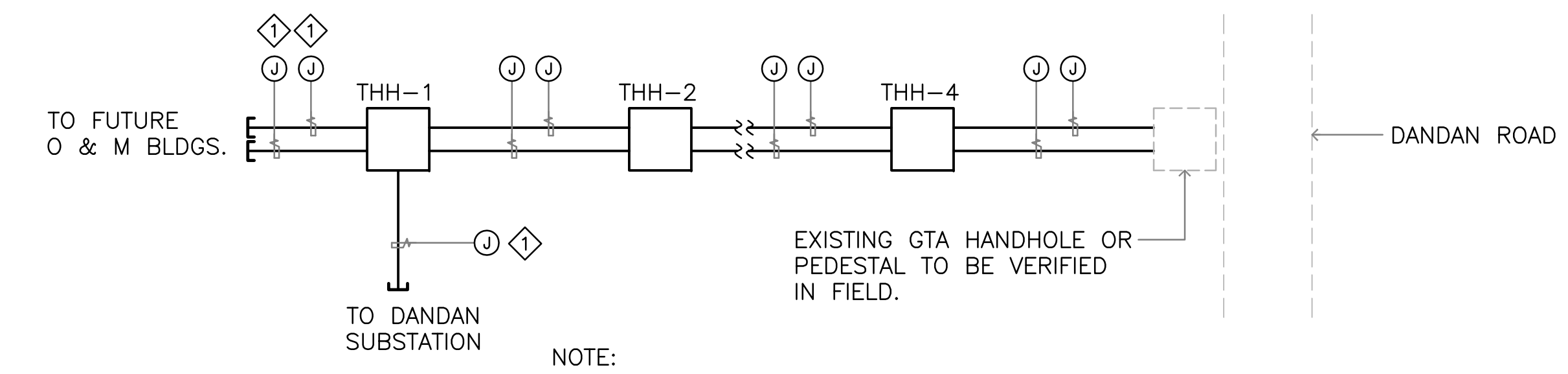
**GUAM POWER AUTHORITY**  
P.O. BOX 2977, AGANA, GUAM, USA 96910

DRAWING NO: 001-14-028	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED: JE	SHEET TITLE: T-LINE PLAN AND PROFILE (MH34 TO MH35)		
DRAWN: JA/RJ	DATE: 11/04/2015	JOB ORDER NO: 100143	SCALE: AS NOTED
CHECKED BY: TG/JE	DATE:	GENERAL MANAGER:	SHEET NO: 28 OF 47
ENGINEERING SUPERVISOR: IRWIN B. LOYOLA, P.E.	DATE:	ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.	DATE:
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.	DATE:	GENERAL MANAGER: JOHN M. BENAVENTE, P.E.	DATE:

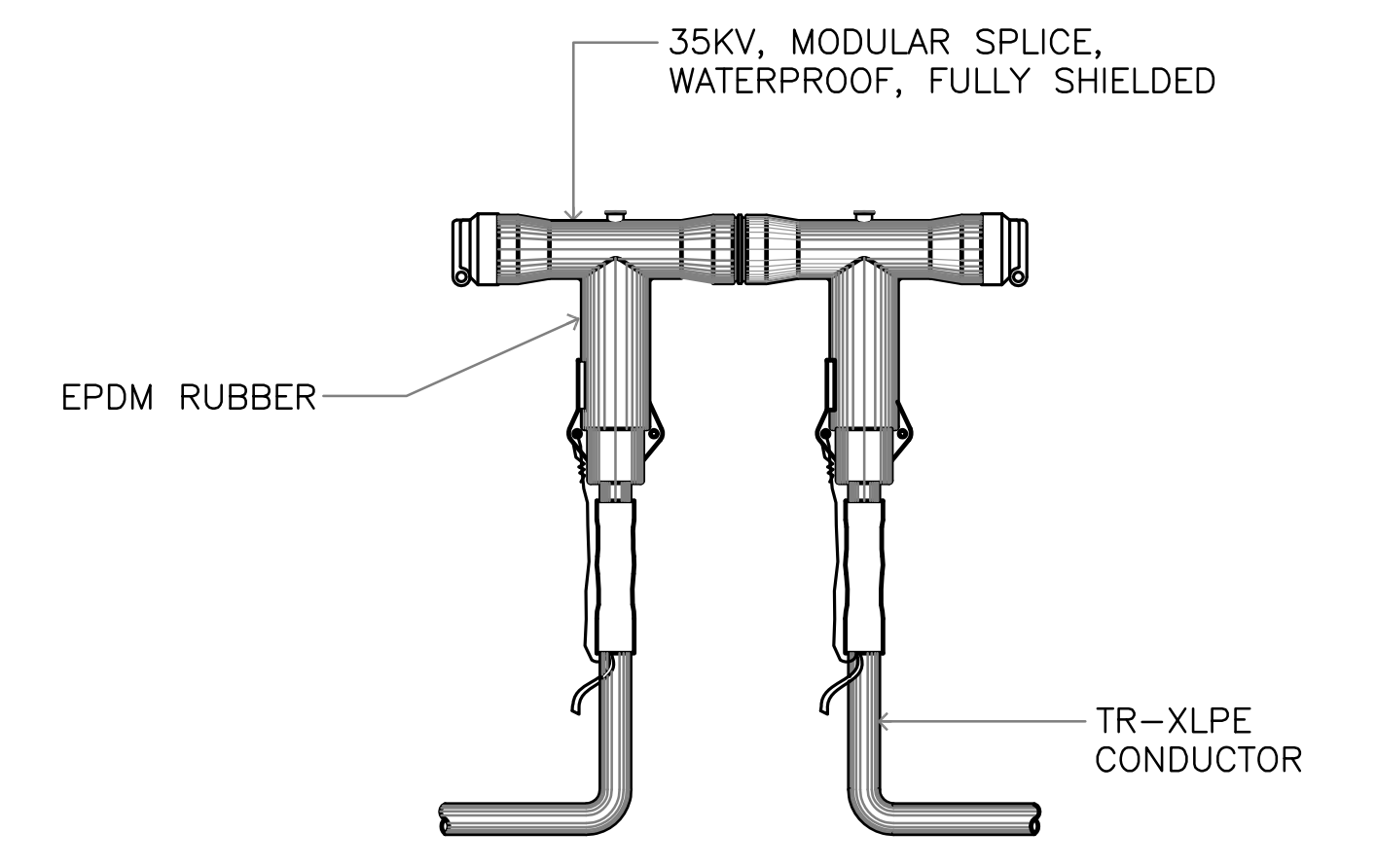
**C222**



**1** MANHOLE AND DUCT SYSTEM DIAGRAM, 34.5 KV  
 E100 NOT TO SCALE



**2** TELEPHONE CONDUIT AND HANDHOLE DIAGRAM  
 E100 NOT TO SCALE



**3** MODULAR SPLICE DETAIL, 35 KV  
 E100 NOT TO SCALE

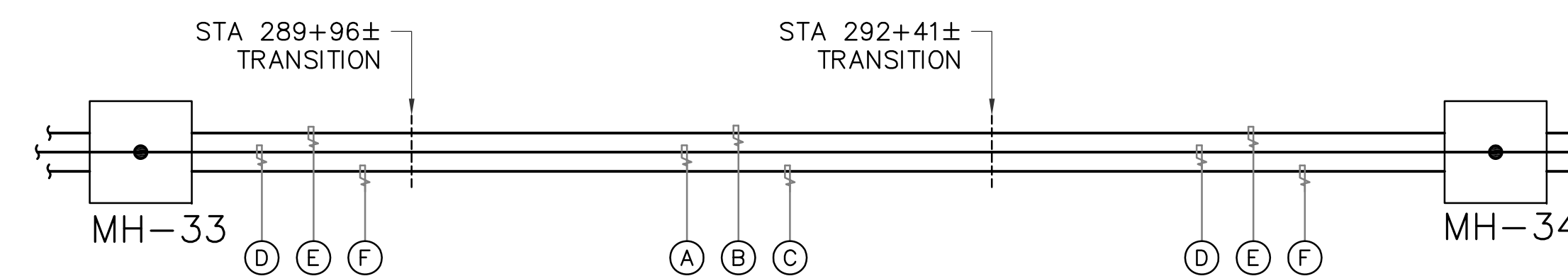
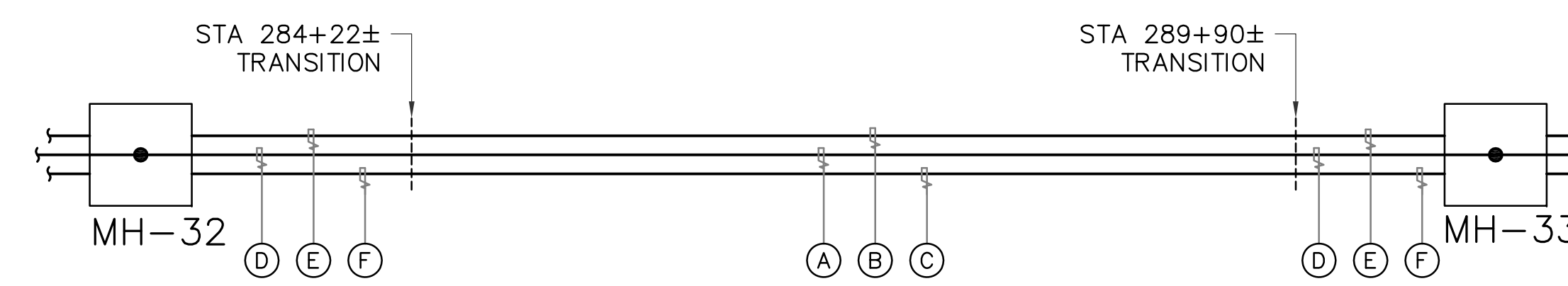
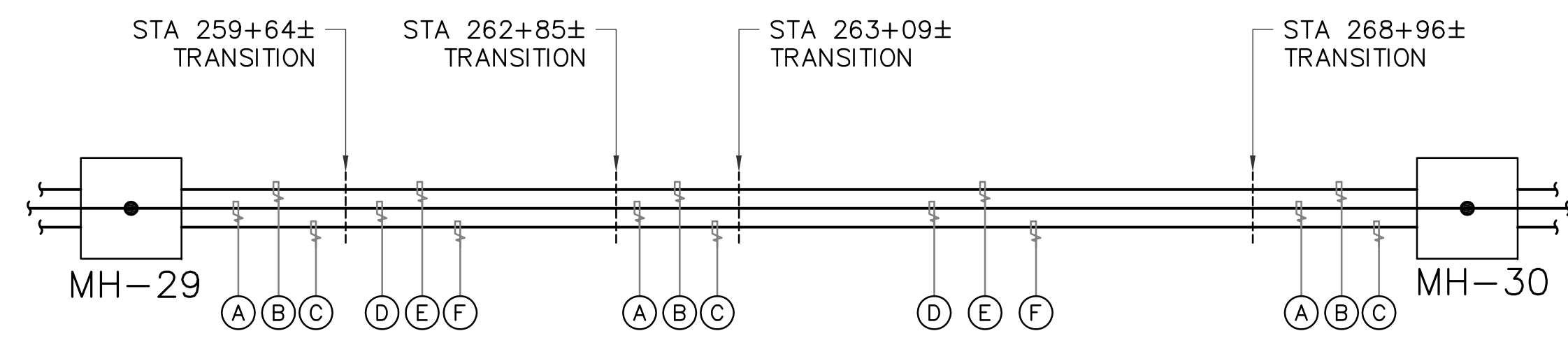
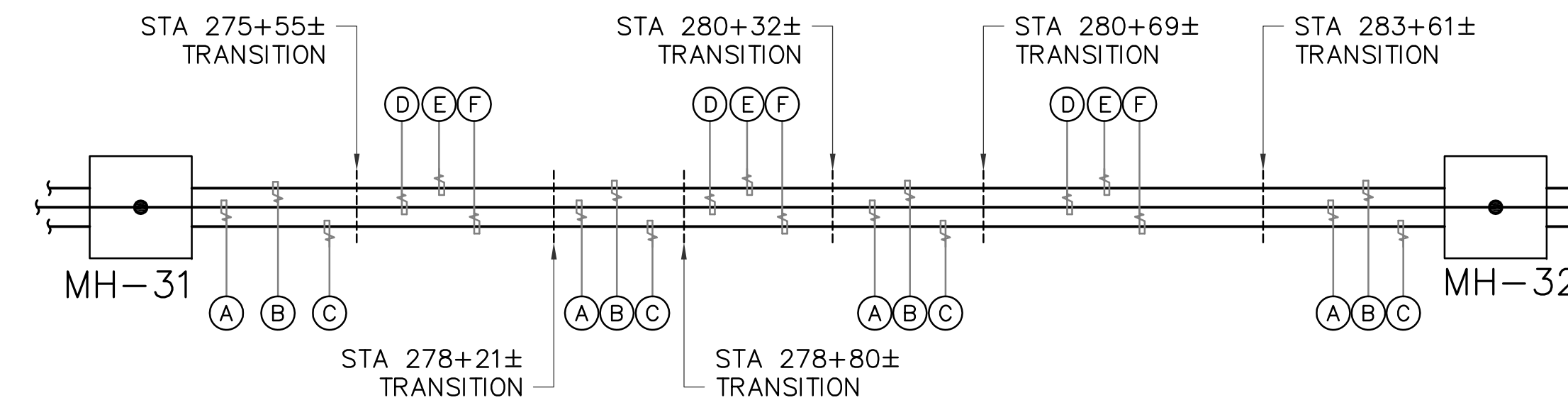
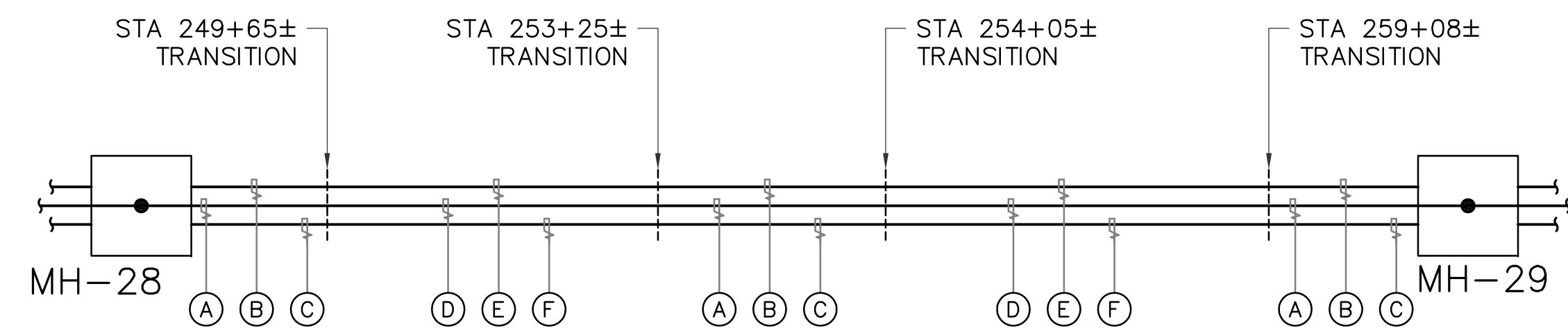
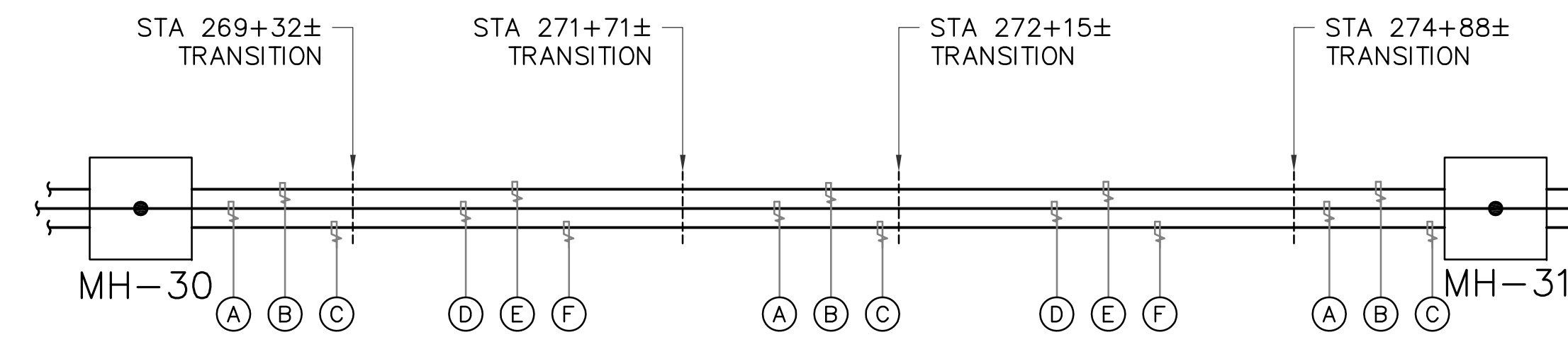
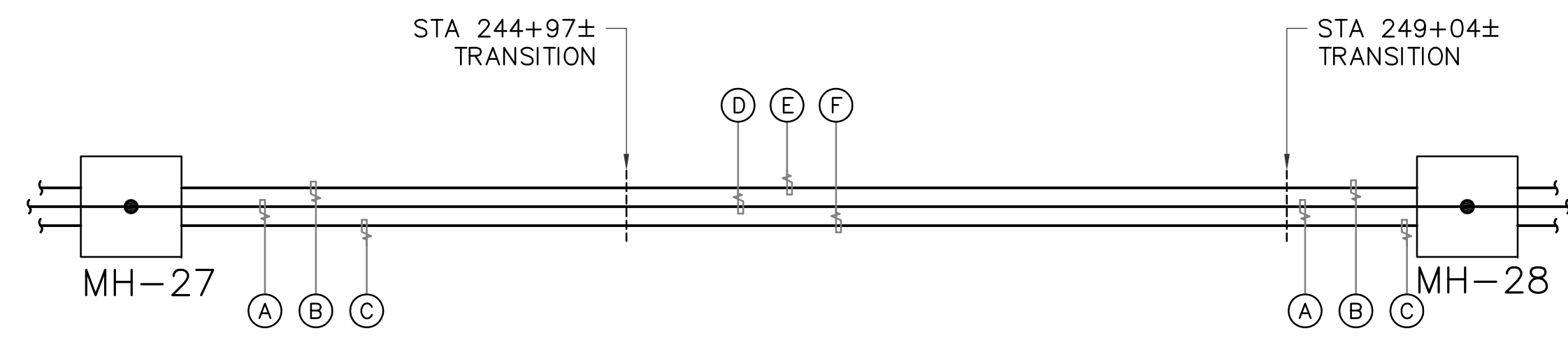
MANHOLE SCHEDULE								
LEGEND: MANHOLE  PENETRATE POINT  PULLING IRON								
MANHOLE DESIGNATION	PENETRATION LOCATION		MANHOLE DESIGNATION	PENETRATION LOCATION		MANHOLE DESIGNATION	PENETRATION LOCATION	
MH-1		8x8x8	MH-13		6x11x9	MH-25		8x8x8
MH-2		8x8x8	MH-14		6x11x9	MH-26		8x8x8
MH-3		8x8x8	MH-15		6x11x9	MH-27		8x8x8
MH-4		8x8x8	MH-16		6x11x9	MH-28		8x8x8
MH-5		8x8x8	MH-17		6x11x9	MH-29		8x8x8
MH-6		8x8x8	MH-18		6x11x9	MH-30		8x8x8
MH-7		8x8x8	MH-19		6x11x9	MH-31		8x8x8
MH-8		8x8x8	MH-20		6x11x9	MH-32		8x8x8
MH-9		8x8x8	MH-21		8x8x8	MH-33		8x8x8
MH-10		8x8x8	MH-22		8x8x8	MH-34		8x8x8
MH-11		8x8x8	MH-23		8x8x8	MH-35		8x8x8
MH-12		6x11x9	MH-24		8x8x8			

CONDUIT/CABLE SCHEDULE	
(A)	6" C, PVC SCHEDULE 40, WITH 3-1/C #500 KCML, CU, TR-XLPE, 35KV, 133% INSULATION, HDPE JACKET
(B)	6" C, PVC SCHEDULE 40, SPARE
(C)	1 1/4" C, PVC SCHEDULE 40 (FOR FUTURE FIBER OPTIC CABLE)
(D)	6" C, HDPE WITH 3-1/C #500 KCML, CU, TR-XLPE, 35KV, 133% INSULATION, HDPE JACKET
(E)	6" C, HDPE, SPARE
(F)	1 1/4" C, HDPE (FOR FUTURE FIBER OPTIC CABLE)
(G)	6" C, PVC COATED ALUMINUM, WITH 3-1/C #500 KCML, CU, TR-XLPE, 35KV, 133% INSULATION, HDPE JACKET
(H)	6" C, PVC COATED ALUMINUM, SPARE
(I)	1 1/4" C, PVC COATED ALUMINUM (FOR FUTURE FIBER OPTIC CABLE)
(J)	2" C, PVC, SCHEDULE 40 (FOR TELEPHONE)

NOTES: (MANHOLE SCHEDULE)  
 (1) PULLING IRON LOCATION IS ALWAYS OPPOSITE TO CONDUIT ENTRANCES.  
 (2) PENETRATION POINT DESIGNATIONS ARE BASED ON THE MANHOLE LOCATION AS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH MANHOLE TO GPA FOR APPROVAL PRIOR TO FABRICATION.

AS-BUILT NOVEMBER 04, 2015	<b>TC ENGINEERS, PC</b> CIVIL ENGINEERING, PLANNING, CONSTRUCTION MANAGEMENT & LAND SURVEYING 125 Tula Plaza, Suite 501, Agaña, Guam 96913-3023 email: tce@tc-engr.com Tel: (671)843-0888 Fax: (671)843-0886	<b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
		DRAWING NO: 001-14-037 DESIGNED: <b>AS</b>	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM
GRAPHIC SCALE		DRAWN: <b>JR/BJ</b> CHECKED BY: <b>TO/AE</b> ENGINEERING SUPERVISOR: <b>IRWIN B. LOYOLA, P.E.</b> MANAGER OF ENGINEERING: <b>JOVEN G. ACOSTA, P.E.</b>	SHEET TITLE: MANHOLE AND DUCT SYSTEM DIAGRAM AND SPLICE DETAIL DATE: 11/04/2015 ASSISTANT GENERAL MANAGER: <b>MELINDA R. CAMACHO, P.E.</b> GENERAL MANAGER: <b>JOHN M. BENAVENTE, P.E.</b>
<b>E100</b>		JOB ORDER NO: 100143 SCALE: AS NOTED SHEET NO: 37 OF 47	DATE:





**1** MANHOLE AND DUCT SYSTEM DIAGRAM  
 E101 NOT TO SCALE

NOTES:

- ◇ ALL CABLING FROM DANDAN 34.5 KV SWITCHGEAR TO TALOFOFO 34.5 KV RISER SHALL BE PROVIDED UNDER THIS PROJECT.
- ◇ PROVIDE CONDUIT STUB-OUTS FOR CONTINUATION UNDER SUBSTATION PROJECT.

AS-BUILT  
 NOVEMBER 04, 2015

**TC ENGINEERS, PC**  
 CIVIL ENGINEERING, PLANNING, CONSTRUCTION  
 MANAGEMENT & LAND SURVEYING  
 125 Tula Heja Circle, Suite 301  
 Agaña, Guam 96913-3021  
 Email: tce@tc-engr.com  
 Tel: (671)843-0800 Fax: (671)843-0886



**GUAM POWER AUTHORITY**  
 P.O. BOX 2977, AGANA, GUAM, USA 96910

DRAWING NO:	001-14-038	34.5-KV UNDERGROUND TRANSMISSION LINE DANDAN TALOFOFO, GUAM		
DESIGNED BY:	AK	SHEET TITLE: MANHOLE AND DUCT SYSTEM DIAGRAM AND SPLICE DETAIL		
DRAWN BY:	JR/BJ	CHECKED BY:	TO/AJE	DATE: 11/04/2015
ENGINEERING SUPERVISOR:	IRWIN B. LOYOLA, P.E.	ASSISTANT GENERAL MANAGER:	MELINDA R. CAMACHO, P.E.	DATE:
MANAGER OF ENGINEERING:	JOVEN G. ACOSTA, P.E.	GENERAL MANAGER:	JOHN M. BENAVENTE, P.E.	DATE:

**E101**