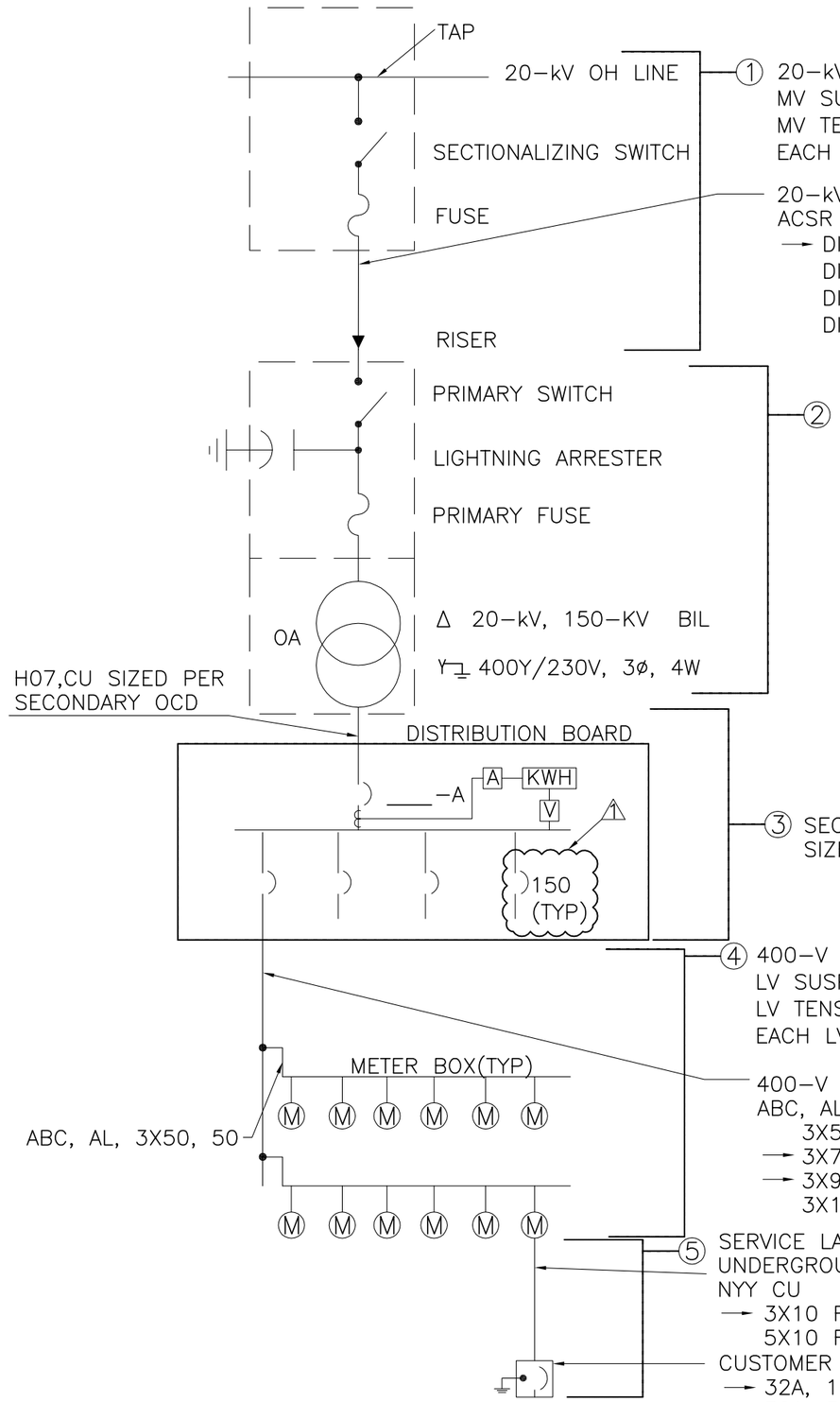

① 20–kV OHL
MV SUSPENSION (TANGENT) POLES, SINGLE 2,000–MM CROSS ARM, DABS AS–01, 2XAS–05, AS–07, MV–301C
MV TENSION (ANGLE) POLES, DOUBLE 2,000–MM CROSS ARMS, DABS AS–03, 1XAS–05, 6XAS–09, MV–308C
EACH MV TENSION (ANGLE) POLE IS GUYED. MV GUY, DABS AN–S1, GU–S1, GU–102C

20–kV OH LINE
ACSR
→ DIN 70/12
DIN 95/15
DIN 120/20
DIN 185/30

② 2

SECONDARY TRANSFORMER SUBSTATION & DISTRIBUTION BOARD

TRANSFORMER kVA	MCB (A)	TAP C/ø, 3P+N (mm^2)	BCB (A)
25	50	1 X 50	NONE
40	80	1 X 50	NONE
63	120	1 X 50	NONE
100	200	1 X 120	2 X 150
160	300	1 X 240	3 X 150
250	500	2 X 150	5 X 150
400	800	3 X 185	7 X 150
630	1200	5 X 185	12 X 150
1000	2000	8 X 240	10 X 250

③ SECONDARY 400–V DISTRIBUTION
SIZE TRANSFORMER SECONDARY OCD PER TRANSFORMER SIZE

④ 400–V OH TO METER BOXES
LV SUSPENSION (TANGENT) POLES, DABS AS–11, LV–101
LV TENSION (ANGLE) POLES, DABS AS–12, AS–13, LV–102
EACH LV TENSION (ANGLE) POLE IS GUYED. LV GUY, DABS AN–S1, GU–S1, GU–101C

400–V OH LINE
ABC, AL
3X50, 50
→ 3X70, 50
→ 3X95, 70
3X120, 70

⑤ SERVICE LATERALS AND SE DISCONNECTS
UNDERGROUND SERVICE LATERAL
NYY CU
→ 3X10 RE
5X10 RE
CUSTOMER SERVICE DISCONNECT
→ 32A, 1P
32A, 3P

NOTE:
MATERIALS SHALL CONFORM TO DABS DISTRIBUTION STANDARDS, CHAPTER U DABS STANDARD TECHNICAL DATA SHEETS, CHAPTER Y, DABS TECHNICAL SPECIFICATIONS, CHAPTERS A THROUGH S, AND DABS CHAPTER Z–3 INFORMATION ON SPECIFIC ITEMS OF SUPPLY, CHAPTERS D,H,I,N,O,S.

NOT FOR CONSTRUCTION

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS.

CONCEPT DESIGN

NO.	DESCRIPTION	DATE	APR
2	ADDED SECONDARY TABLE	12/20/2010	
1	CHANGED SIZE OF OCD	12/18/2010	
	SYMB		

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DWN BY: AS
CHK BY: MAL
DATE: 12/31/2010
SUBMITTED BY: TETRA TECH
FILE NO.: LT0025–E–100

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42 VILLAGES ELECTRIFICATION
ELECTRICAL
ONE–LINE DIAGRAM

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SHEET REFERENCE NUMBER:
LT0025 E–100

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AERIAL IMAGE

SHEET REFERENCE NUMBER:
LT0025
E-129W

50 0 50 100 150 200
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DATE: 01/04/2011
SUBMITTED BY: TETRA TECH
FILE NO.: LT0025-E-129E

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KHOJIKHIL
AERIAL IMAGE

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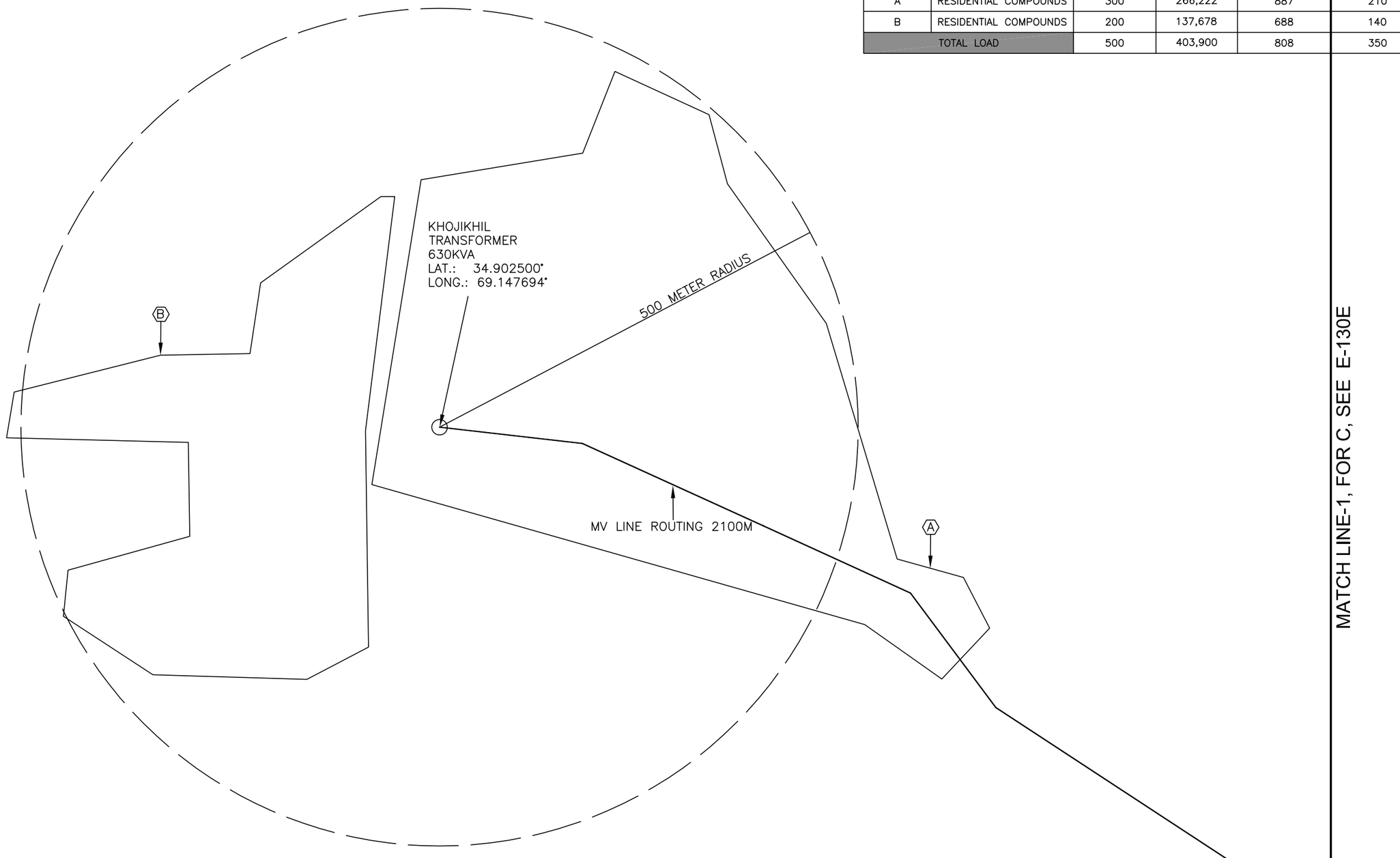
SUMMARY TABLE					
FIGURE	TYPE OF CUSTOMER	NUMBER OF CUSTOMER	AREA M^2	DENSITY M^2/CUSTOMER	ESTIMATED PEAK COINCIDENTAL KW
A	RESIDENTIAL COMPOUNDS	300	266,222	887	210
B	RESIDENTIAL COMPOUNDS	200	137,678	688	140
TOTAL LOAD		500	403,900	808	350



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NO.	DESCRIPTION	DATE
SYMB		APR

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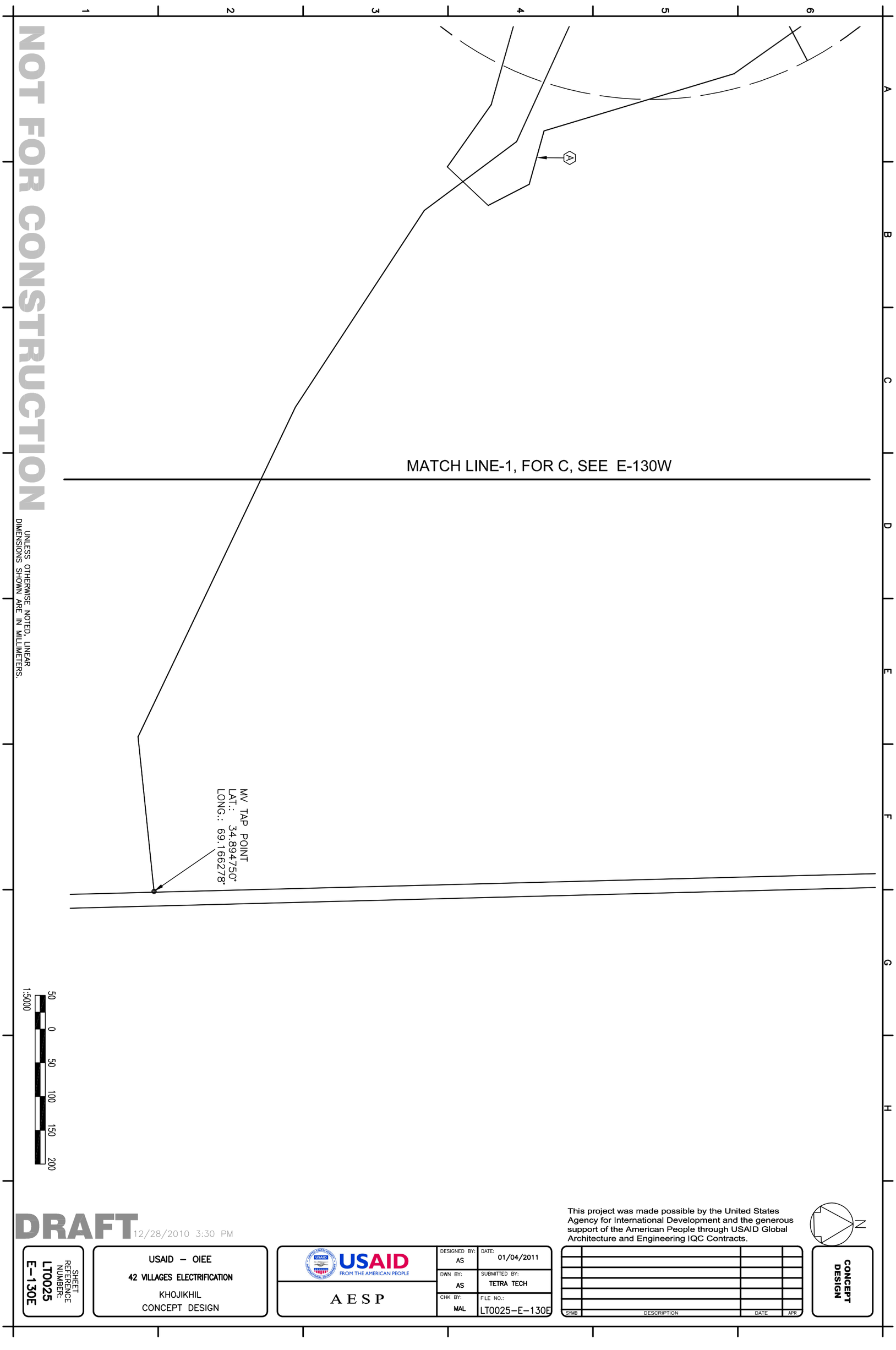

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SYMB	DESCRIPTION	DATE	APR

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