

- | | | | |
|-----------------------|---|----------------------------|-------|
| REMOVAL | ✓ | TLINE CENTERLINE | --- |
| REPLACE EXISTING POLE | ● | TLINE CENTERLINE ALTERNATE | - - - |
| EXISTING WOOD POLE | ● | ROW | --- |
| NEW WOOD POLE | ⊗ | TEMPORARY EASEMENT | - - - |
| EXISTING METAL POLE | ○ | PROPOSED IMU EASEMENT | --- |
| NEW METAL POLE | ⊠ | | |
| EXISTING SPAN GUY | < | | |
| INSTALL SPAN GUY | < | | |
| DOUBLE DEADEND | | | |
| DEADEND | | | |
| EXISTING GUY | ├ | | |
| INSTALL GUY | ├ | | |



**PRELIMINARY
NOT FOR CONSTRUCTION**

REV	DATE	DESG	DFTR	APP	DESCRIPTION
A	03-13-13	P&E	RMB	ARP	ORIGINAL ISSUE

P & E ENGINEERING CO.
POWER SYSTEM ANALYSIS AND DESIGN
245 S. 5th
P.O. Box 620
Carlisle, IA 50047
Office: 515-989-3083
FAX: 515-989-3138
pe@pe-engineer.com

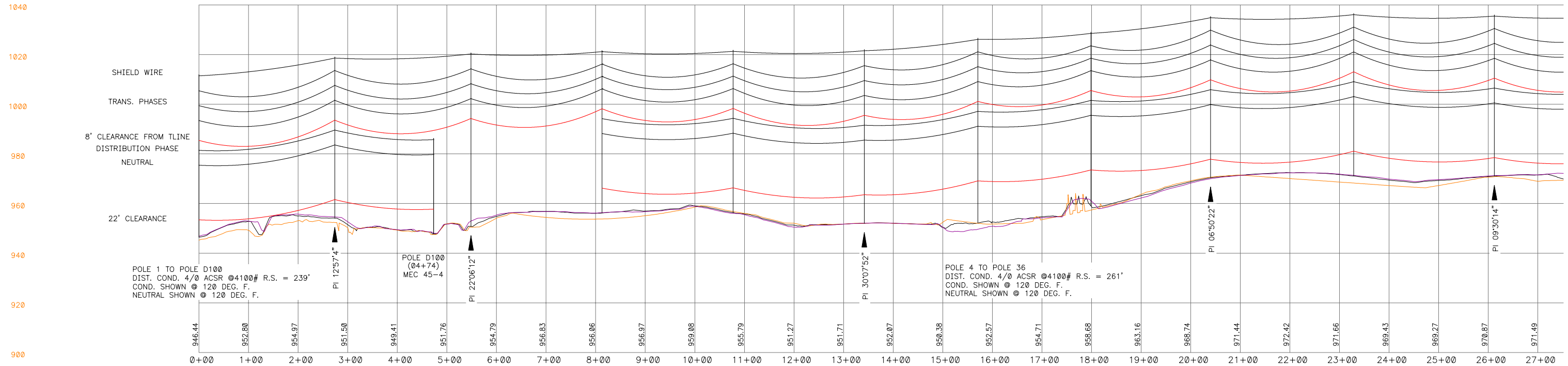


DATE 01-08-12
DESIGNED P&E
DRAWN RMB
APPROVED JWE
APPROVED ARP

INDIANOLA MUNICIPAL UTILITIES
HIGHWAY 92 DOT PROJECT
TRANSMISSION PLAN & PROFILE

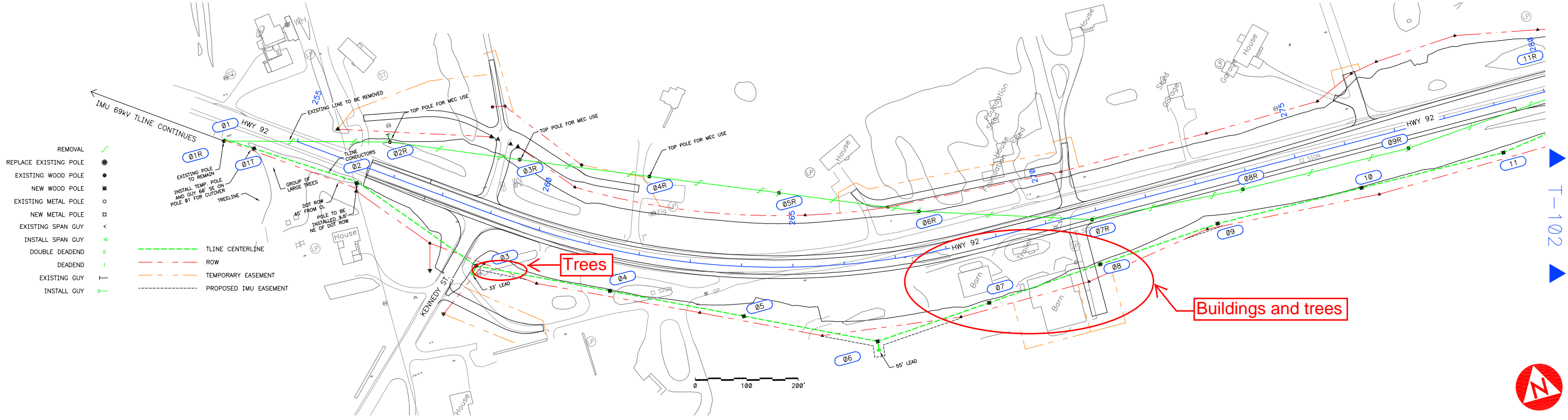
SCALE: AS NOTED
REV **A**
DWG. NO. **E8958-T100**

POLE 1 TO POLE 36
 TLINE COND. 2-336 KCMIL ACSR @7100# R.S. = 261'
 SHIELD, 3/8 EHS @3000# R.S. = 261'
 COND. SHOWN @ 212 DEG. F.
 SHIELD SHOWN @ -20 DEG F.



STRUCTURE NUMBER (STRUCTURE STATIONING)	POLE 01 (00+00)	POLE 02 (02+74)	POLE 03 (05+49)	POLE 04 (08+13)	POLE 05 (10+77)	POLE 06 (13+41)	POLE 07 (15+70)	POLE 08 (17+99)	POLE 09 (20+40)	POLE 10 (23+29)	POLE 11 (26+13)
GRID STATIONING	00+00		05+00	10+00	15+00	20+00	25+00	30+00	35+00	40+00	45+00
SPAN LENGTH		274'	275'	265'	265'	229'	228'	241'	289'	284'	284'
POLE HEIGHT - CLASS	75-1	LW-65' AGL	80-1	75-1	75-1	80-1	80-1	80-1	LW 65' AGL	75-1	LW 65' AGL
NOTES	RE-USE EXISTING POLE										

SEE STAKING SHEETS
 FOR FRAMING DATA



PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	DESG	DFTR	APP	DESCRIPTION
A	03-13-13	P&E	RMB	ARP	ORIGINAL DESIGN

P & E ENGINEERING CO.
 POWER SYSTEM ANALYSIS AND DESIGN
 245 S. 5th
 P.O. Box 620
 Carlisle, IA 50047
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 FAX: 515-989-3138
 peneer@peneer.com

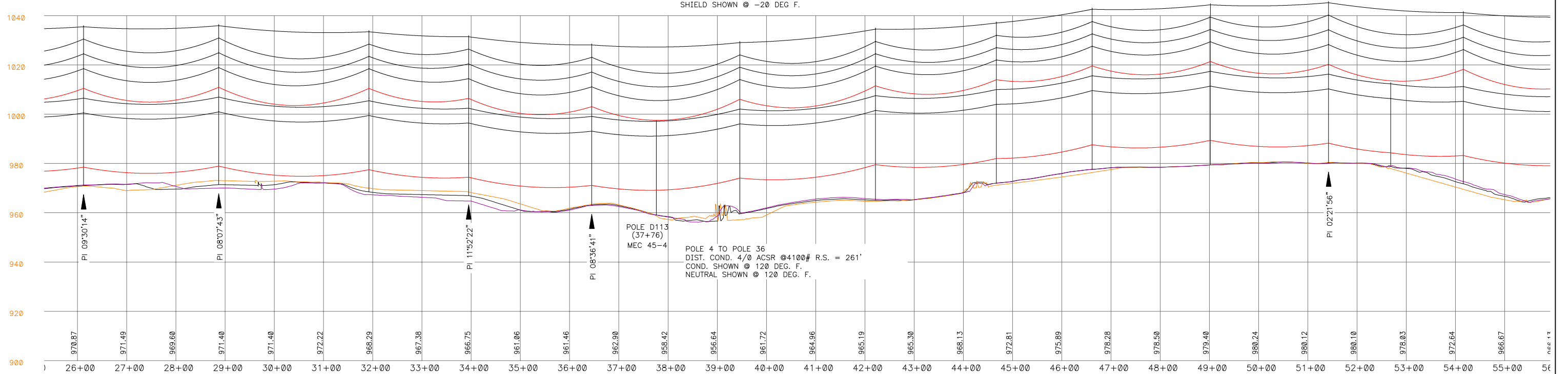


DATE 01-08-12
 DESIGNED P&E
 DRAWN RMB
 APPROVED JWE
 APPROVED ARP

INDIANOLA MUNICIPAL UTILITIES
 HIGHWAY 92 DOT PROJECT
 TRANSMISSION PLAN & PROFILE

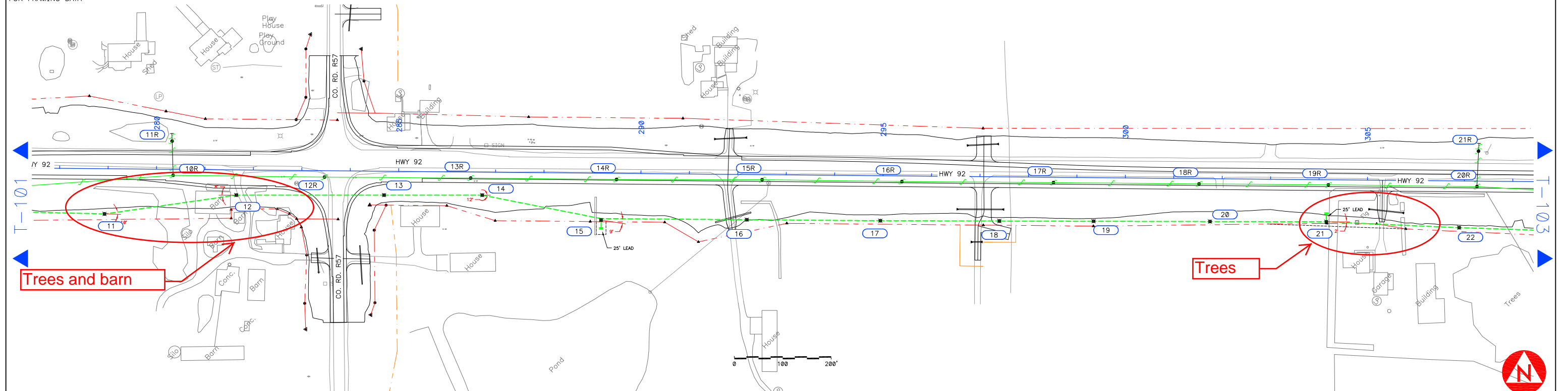
SCALE: AS NOTED
 REV A
 DWG NO E8958-T101

POLE 1 TO POLE 36
 TLINE COND. 2-336 KCMIL ACSR @7100# R.S. = 261'
 SHIELD. 3/8 EHS @3000# R.S. = 261'
 COND. SHOWN @ 212 DEG. F.
 SHIELD SHOWN @ -20 DEG F.



STRUCTURE NUMBER	POLE 11	POLE 12	POLE 13	POLE 14	POLE 15	POLE 16	POLE 17	POLE 18	POLE 19	POLE 20	POLE 21	POLE 22	
(STRUCTURE STATIONING)	(26+13)	(28+88)	(31+93)	(33+95)	(36+45)	(39+46)	(42+22)	(44+67)	(46+22)	(49+02)	(51+42)	(54+16)	
GRID STATIONING													
SPAN LENGTH		275'	30+00	305'	75-1	202'	35+00	250'	80-1	301'	80-H1	276'	
POLE HEIGHT - CLASS	LW 65' AGL	LW 65' AGL											
NOTES			13' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION									15' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	

SEE STAKING SHEETS FOR FRAMING DATA



PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	DESG	DFTD	APP	DESCRIPTION
B	03-28-13	P&E	RMB	ARP	CHANGED TYPE OF POLE 25
A	03-13-13	P&E	RMB	ARP	ISSUED FOR BIDDING

P & E ENGINEERING CO.
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 pengine@pe-engineer.com



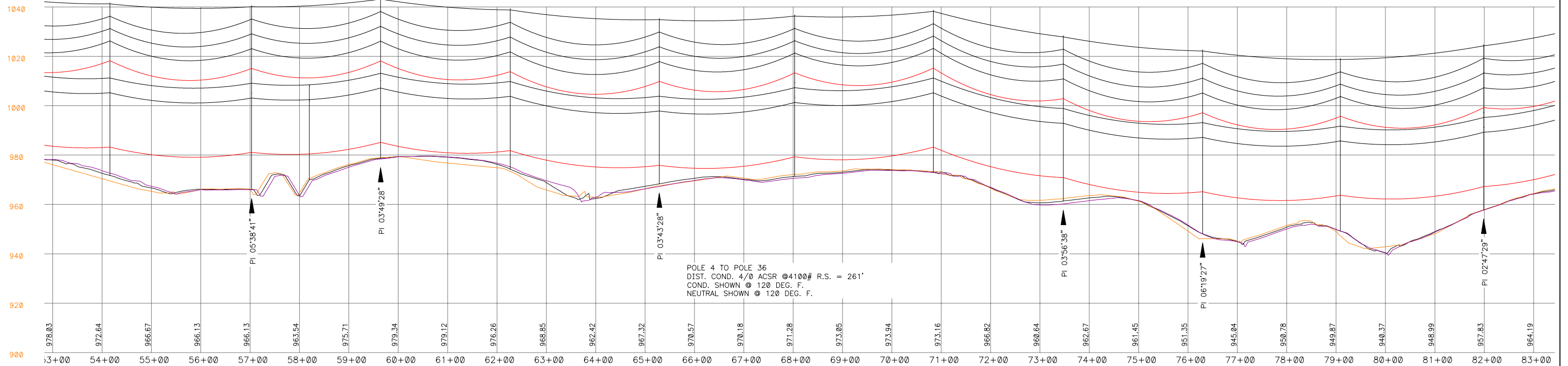
DATE 01-08-12
 DESIGNED P&E
 DRAWN RMB
 APPROVED JWE
 APPROVED ARP

INDIANOLA MUNICIPAL UTILITIES
 HIGHWAY 92 DOT PROJECT
 TRANSMISSION PLAN & PROFILE

SCALE: AS NOTED
 REV A
 DWG NO E8958-T102

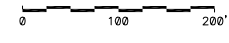
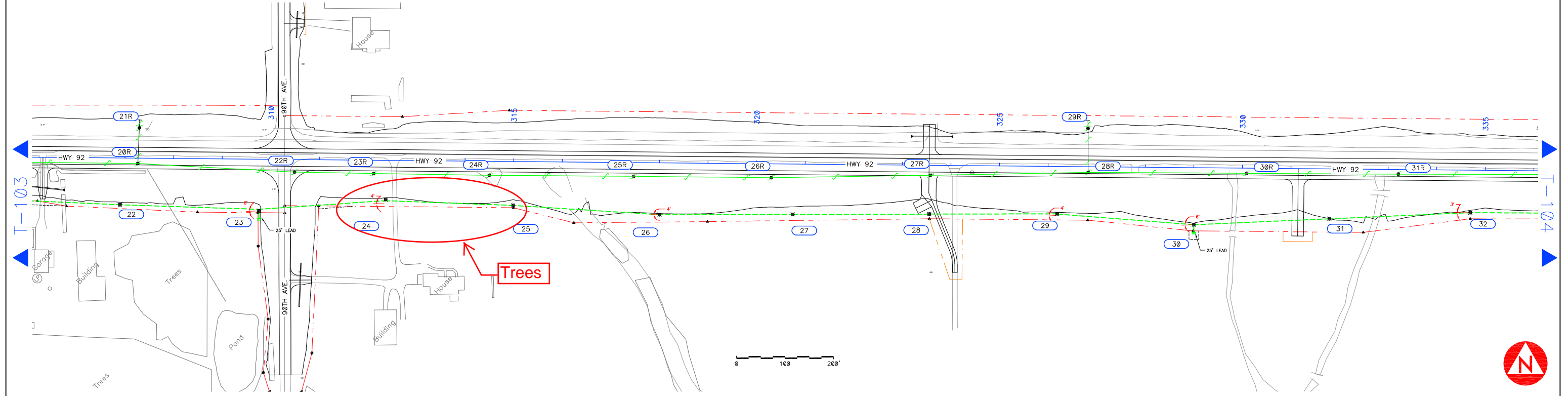
POLE 1 TO POLE 36
 TLINE COND. 2-336 KCMIL ACSR @7100# R.S. = 261'
 SHIELD. 3/8 EHS @3000# R.S. = 261'
 COND. SHOWN @ 212 DEG. F.
 SHIELD SHOWN @ -20 DEG F.

POLE 4 TO POLE 36
 DIST. COND. 4/0 ACSR @4100# R.S. = 261'
 COND. SHOWN @ 120 DEG. F.
 NEUTRAL SHOWN @ 120 DEG. F.



STRUCTURE NUMBER (STRUCTURE STATIONING)	POLE 22 (54+16)	POLE 23 (57+03)	POLE 24 (59+64)	POLE 25 (62+27)	POLE 26 (65+29)	POLE 27 (68+03)	POLE 28 (70+84)	POLE 29 (73+47)	POLE 30 (76+30)	POLE 31 (79+09)	POLE 32 (81+99)
GRID STATIONING	55+00	57+00	60+00	63+00	65+00	70+00	73+00	75+00	76+00	80+00	83+00
SPAN LENGTH	274'	261'	263'	302'	274'	281'	263'	283'	279'	290'	
POLE HEIGHT - CLASS	80-1	80-1	LW 65' AGL	75-1	LW 67' AGL	75-1	LW 67' AGL	85-1	80-1	LW 67' AGL	
NOTES	15' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	14' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	13' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION		14' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	14' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION				13' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	

SEE STAKING SHEETS
FOR FRAMING DATA



PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	DESG	DFTD	APP	DESCRIPTION
B	03-28-13	P&E	RMB	ARP	CHANGED TYPE OF POLE 25
A	03-13-13	P&E	RMB	ARP	ISSUED FOR BIDDING

P & E ENGINEERING CO.
 POWER SYSTEM ANALYSIS AND DESIGN
 245 S. 9th
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 Carlisle, IA 50047
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 FAX: 515-989-3138
 pengine@pengine.com



DATE 01-08-12
 DESIGNED P&E
 DRAWN RMB
 APPROVED JWE
 APPROVED ARP

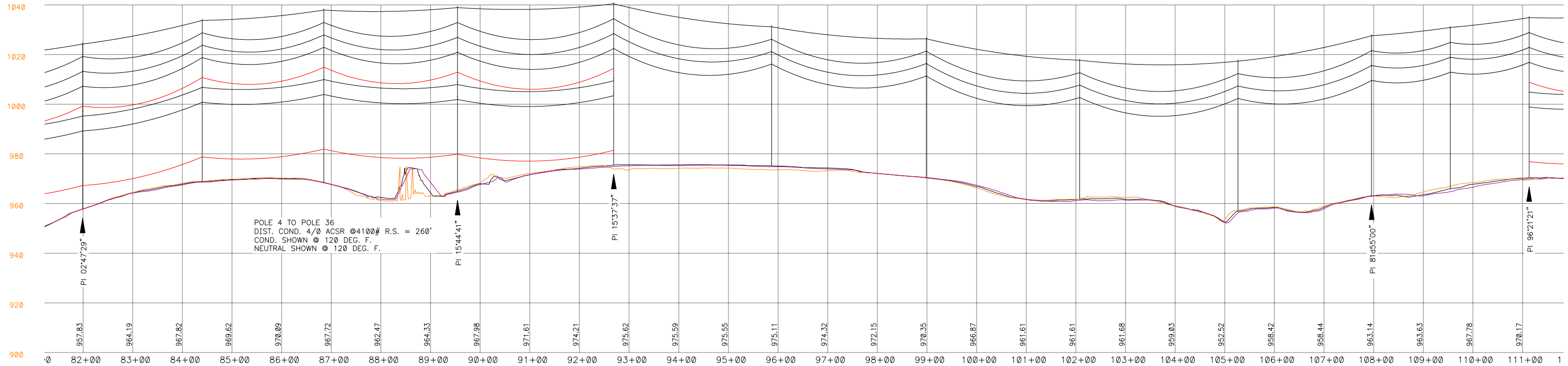
INDIANOLA MUNICIPAL UTILITIES
 HIGHWAY 92 DOT PROJECT
 TRANSMISSION PLAN & PROFILE

SCALE: AS NOTED
 REV A
 DWG NO E8958-T103

POLE 1 TO POLE 36
 TLINE COND. 2-336 KCMIL ACSR @7100# R.S. = 261'
 SHIELD. 3/8 EHS @3000# R.S. = 261'
 COND. SHOWN @ 212 DEG. F.
 SHIELD SHOWN @ -20 DEG F.

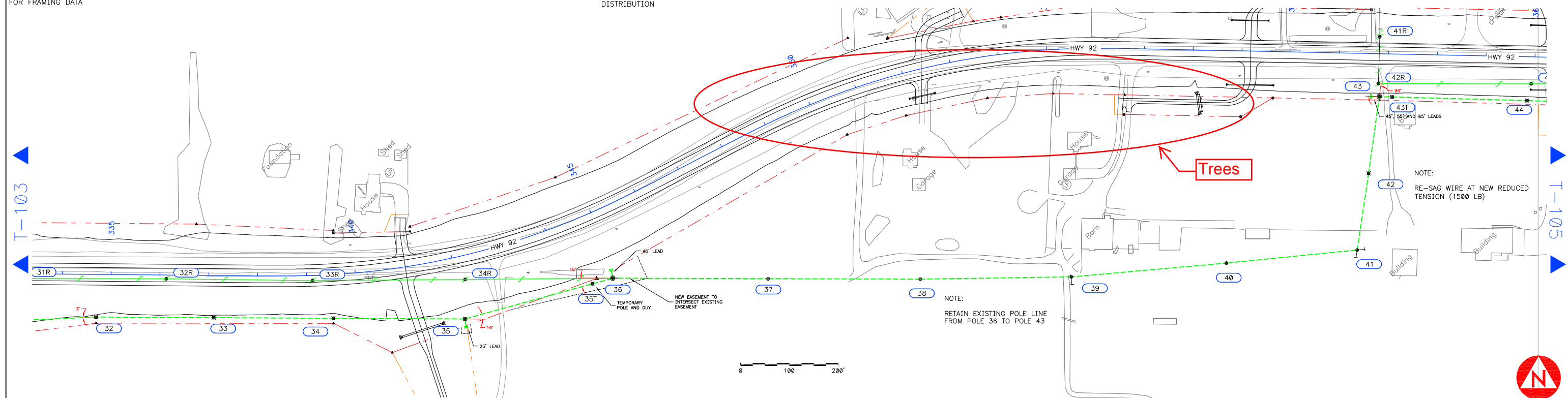
POLE 36 TO POLE 41
 TLINE COND. 2-336 KCMIL ACSR @7100# R.S. = 307'
 SHIELD. 3/8 EHS @3000# R.S. = 307'
 COND. SHOWN @ 212 DEG. F. FINAL
 SHIELD SHOWN @ -20 DEG F. FINAL

POLE 41 TO POLE 43
 TLINE COND. 2-336 KCMIL ACSR @1500# R.S. = 159'
 SHIELD. 3/8 EHS @3000# R.S. = 159'
 COND. SHOWN @ 212 DEG. F. FINAL
 SHIELD SHOWN @ -20 DEG F. FINAL



STRUCTURE NUMBER	POLE 32	POLE 33	POLE 34	POLE 35	POLE 36	POLE 37	POLE 38	POLE 39	POLE 40	POLE 41	POLE 42	POLE 43
(STRUCTURE STATIONING)	(81+99)	(84+40)	(86+85)	(89+54)	(92+69)	(95+87)	(99+98)	(102+08)	(105+26)	(107+96)	(109+54)	(111+13)
GRID STATIONING		85+00		90+00		95+00	100+00		105+00		110+00	
SPAN LENGTH	241'	245'	269'	315'	318'	311'	310'	318'	270'	158'	159'	
POLE HEIGHT-CLASS	LW 67' AGL	75-1	80-1	85-1	75-1	65-2	65-2	65-2	70-2	75-2	75-1	LW 65' AGL
NOTES			13' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	13' SPACING BETWEEN BOTTOM TLINE PHASE AND DISTRIBUTION	RE-USE EXISTING WIRE FROM LOCATION 36 TO 43	EXISTING POLE TO BE RE-USED	EXISTING POLE TO BE RE-USED	EXISTING POLE TO BE RE-USED	EXISTING POLE TO BE RE-USED	EXISTING POLE TO BE RE-USED	EXISTING POLE TO BE RE-USED	

SEE STAKING SHEETS FOR FRAMING DATA



**PRELIMINARY
 NOT FOR CONSTRUCTION**

REV	DATE	DESG	DFTR	APP	DESCRIPTION
A	03-04-13	P&E	RMB	ARP	ORIGINAL DESIGN

P & E ENGINEERING CO.
 POWER SYSTEM ANALYSIS AND DESIGN
 245 S. 5th
 P.O. Box 620
 Carlisle, IA 50047
 Office: 515-989-3083
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 pengineer@pe-engineer.com

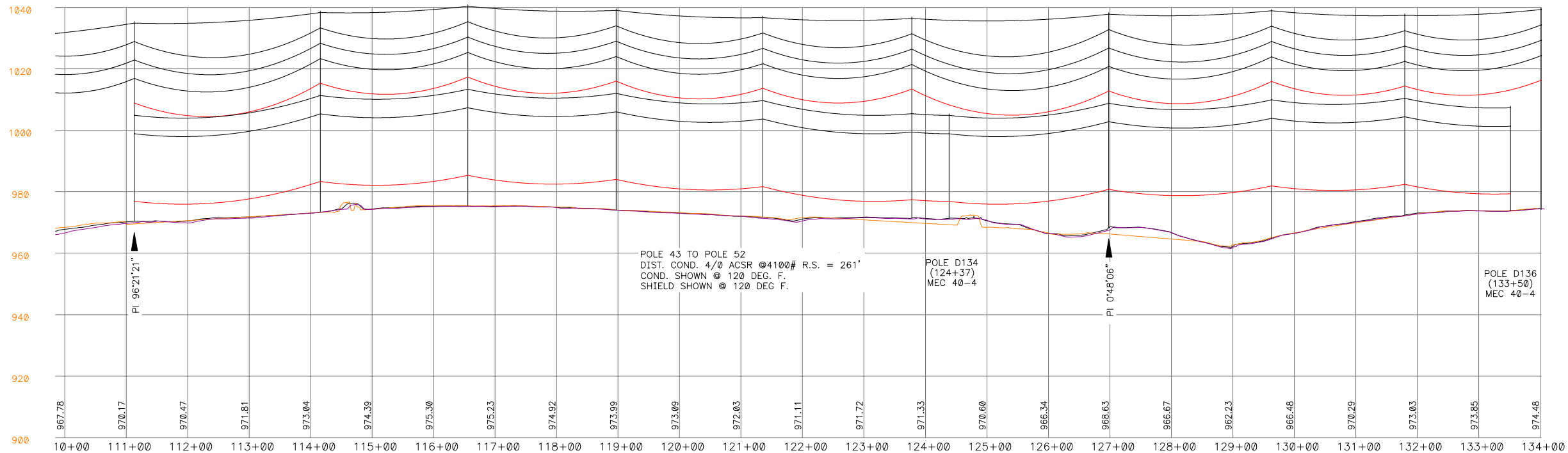


DATE 01-08-12
 DESIGNED P&E
 DRAWN RMB
 APPROVED JWE
 APPROVED ARP

INDIANOLA MUNICIPAL UTILITIES
 HIGHWAY 92 DOT PROJECT
 TRANSMISSION PLAN & PROFILE

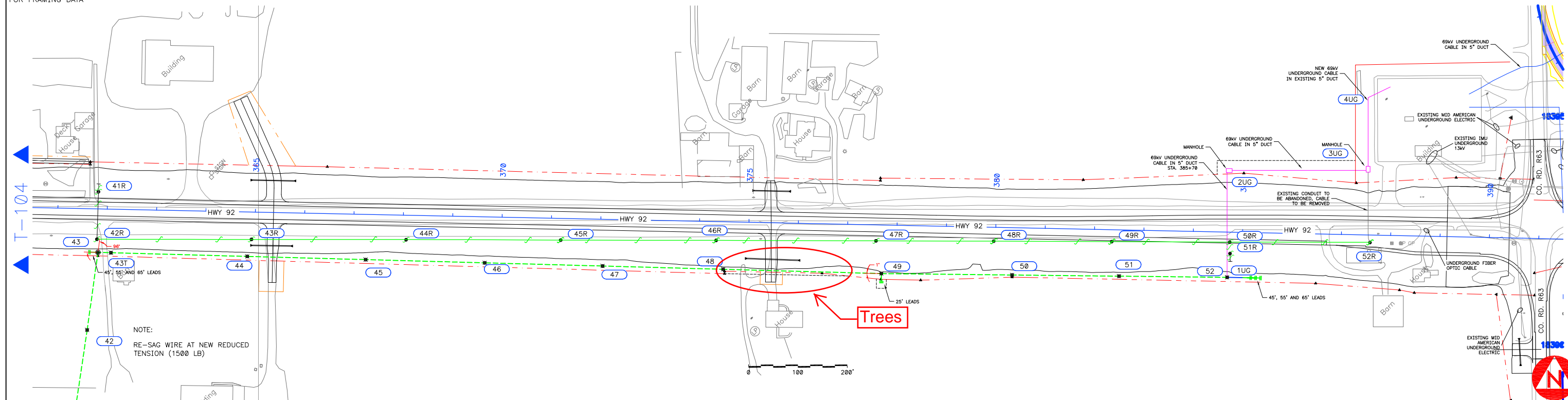
SCALE: AS NOTED
 REV A
 DWG NO E8958-T104

POLE 43 TO POLE 52
 TLIN COND. 2-336 KCMIL ACSR @7100# R.S. = 261'
 SHIELD 3/8 EHS @3000# R.S. = 261'
 COND. SHOWN @ 212 DEG. F.
 SHIELD SHOWN @ -20 DEG F.



STRUCTURE NUMBER (STRUCTURE STATIONING)	POLE 43 (111+13)	POLE 44 (114+16)	POLE 45 (116+56)	POLE 46 (118+97)	POLE 47 (121+36)	POLE 48 (123+78)	POLE 49 (127+98)	POLE 50 (129+63)	POLE 51 (131+80)	POLE 52 (134+02)
GRID STATIONING		115+00			120+00		125+00	130+00		
SPAN LENGTH		303'	240'		239'		320'		217'	222'
POLE HEIGHT - CLASS	LW 65' AGL		75-1		75-1		75-1		75-1	75-1
NOTES						16' SPACING BETWEEN BOTTOM TLIN PHASE AND DISTRIBUTION		14' SPACING BETWEEN BOTTOM TLIN PHASE AND DISTRIBUTION		

SEE STAKING SHEETS
FOR FRAMING DATA



**PRELIMINARY
NOT FOR CONSTRUCTION**

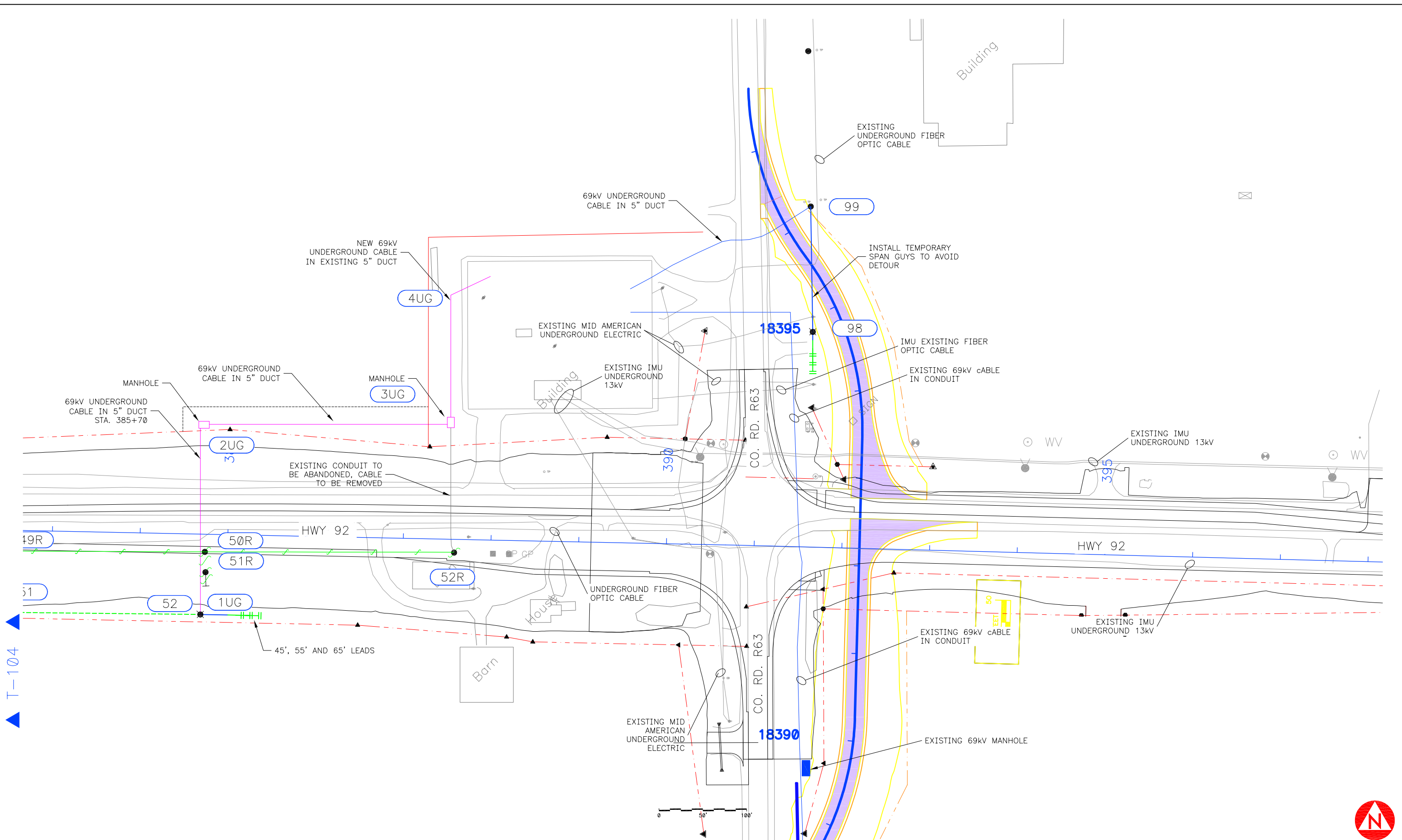
REV	DATE	DESG	DFTD	APP	DESCRIPTION
A	03-13-13	P&E	RMB	ARP	ISSUED FOR BIDDING

P & E ENGINEERING CO.
 POWER SYSTEM ANALYSIS AND DESIGN
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 FAX: 515-989-3138
 pengineer@pe-engineer.com

INDIANOLA MUNICIPAL UTILITIES
IMU
 Electric • Network Services • Water

DATE 01-08-12
 DESIGNED P&E
 DRAWN RMB
 APPROVED JWE
 APPROVED ARP

INDIANOLA MUNICIPAL UTILITIES
 HIGHWAY 92 DOT PROJECT
 TRANSMISSION PLAN & PROFILE
 SCALE: AS NOTED
 REV A
 DWG NO E8958-T105



T-104

**PRELIMINARY
NOT FOR CONSTRUCTION**

REV	DATE	DESG	DFTR	APP	DESCRIPTION
A	03-13-13	P&E	RMB	ARP	ISSUED FOR BIDDING

P & E ENGINEERING CO.
POWER SYSTEM ANALYSIS AND DESIGN
245 S. 5th
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Carlsle, IA 50047
Office: 515-989-3083
FAX: 515-989-3138
pe@pe-engineer.com



DATE 01-08-12
DESIGNED P&E
DRAWN RMB
APPROVED JWE
APPROVED ARP

INDIANOLA MUNICIPAL UTILITIES
HIGHWAY 92 DOT PROJECT
TRANSMISSION PLAN
TEMPORARY WORK EAST OF SUBSTATION

SCALE: AS NOTED
REV A
DWG NO E8958-T106

