

REFERENCE DRAWINGS

- C-39195-C (SH.1-10)--- SCRIBA-VOLNEY #21, 34.5 KV MOSAIC DRAWINGS - SHOWING ACCESS ROADS, LAYDOWN AREAS, PULLING SITES & CLEARING DATA.
- C-31245-C (SH.1-2)--- RIGHT-OF-WAY IMPROVEMENT DETAILS.
- C-39202-C NINE MILE - SCRIBA #23, 34.5 KV MOSAIC DRAWING - SHOWING ACCESS ROADS, LAYDOWN AREAS, PULLING SITES & CLEARING DATA.
- 34.5KV ST 1.4 DE-TS-3P DEAD END 5/8" 0° to 60° DETAIL DWGS.
- 34.5KV ST 1.4 DE-TS-3P DEAD END 5/8" 0° to 60° ERECTION DWGS.
- 34.5KV ST 1.6 DE-TS-3P DEAD END 5/8" 75° to 90° DETAIL DWGS.
- 34.5KV ST 1.6 DE-TS-3P DEAD END 5/8" 75° to 90° ERECTION DWGS.
- 34.5KV ST 1.4 DE-TS DEAD END 5/8" 0° to 60° DETAIL DWGS.
- 34.5KV ST 1.4 DE-TS DEAD END 5/8" 0° to 60° ERECTION DWGS.
- C-30640-C (1A-10) SCRIBA-VOLNEY #21 - PLAN & PROFILE DRAWINGS

CONSTRUCTION DATA

- VOLTAGE 34.5KV
- LENGTH 8.9 MILES (CKT #21) .43 MILES (CKT #23)
- CONFIGURATION HORIZONTAL & VERTICAL
- POWER CONDUCTORS 3 PHASE, BUNDLED (2 PER BUNDLE) NON-SPECULAR 1192.5 MCM ACSR (45/7) BUNTING MAX. TENSION 10,000 LBS. CONDUCTOR OR 20,000#/PHASE (EXCEPT WHERE NOTED)
- GROUND WIRES 2-7/16" 7 STRAND EHS STEEL BETHANIZED "B" MAX. TENSION 4750 LBS. (EXCEPT AS NOTED)
- COUNTERPOISE NONE
- STRUCTURES SEE REFERENCE DRAWINGS (ALL WOOD POLES ARE CLASS I, UNLESS OTHERWISE NOTED)
- LINES DESIGNED TO MEET OR EXCEED NESC HEAVY LOADING REQUIREMENTS
- STEEL POLE STAKING DIAGRAMS REFER TO HARDWARE BOOKLET FOR STAKING DIAGRAM OF INDIVIDUAL STRUCTURES

LEGEND:

- - 1 POLE STEEL STRUCTURE
- - 3 POLE STEEL STRUCTURE
- ✕ - 3 POLE WOOD POLE ANGLE STRUCTURE
- ✕ - 2 POLE WOOD "H" FRAME

NOTES

- THE PROFILE SHOWN REPRESENTS THE CENTER PHASE PROFILE.
- REFER TO N.M.P.C. OVERHEAD TRANSMISSION STANDARDS FOR INFORMATION NOT SHOWN ON THIS DRAWING.
- ALL PHASING TO BE FIELD CHECKED.
- ALL CONDUCTOR SAGS SHOWN ARE THOSE WHICH WOULD EXIST @ 60°F TEMP. AFTER FINAL CONSTRUCTION, UNLESS OTHERWISE NOTED ON DRAWINGS.
- STEEL POLE INFORMATION: FOR SCRIBA-VOLNEY #21
A. STRUCTURES #1 & 2 - COLOR GRAY (FEDERAL STANDARD 6231) - INSULATORS GRAY GLAZED, PORCELAIN.
B. STRUCTURES #31, 70 & 71 - COLOR PARCHMENT (FEDERAL STANDARD 3617) - INSULATORS BROWN GLAZED, PORCELAIN.
- WOOD POLES - INSULATORS BROWN GLAZED, PORCELAIN
- THE PRESRAY FIELD RESEARCH METHOD WILL BE CONDUCTED ON THE R.O.W. BETWEEN SCRIBA STATION AND BURT MINER ROAD. REFER TO #I.E. OF THE EM & CP DOCUMENT FOR PRESRAY PROCEDURE. NORMAL STUMP TREATMENT OF HERBICIDES WILL BE APPLIED TO REMAINDER OF R.O.W.
- STEEL POLE INFORMATION: FOR NINE MILE - SCRIBA #23
A. STRUCTURES #1, 2 & 3 - COLOR GRAY (FEDERAL STANDARD 6231) - INSULATORS GRAY GLAZED, PORCELAIN
- STEEL POLE INFORMATION: FOR NINE MILE - SCRIBA #9
A. STRUCTURE #3 - COLOR GRAY (FEDERAL STANDARD 6231) - INSULATORS GRAY GLAZED, PORCELAIN
- STEEL POLE INFORMATION: FOR SCRIBA-VOLNEY #20
A. STRUCTURES #4 & #5 - COLOR GRAY (FEDERAL STANDARD 6231) - INSULATORS GRAY GLAZED, PORCELAIN

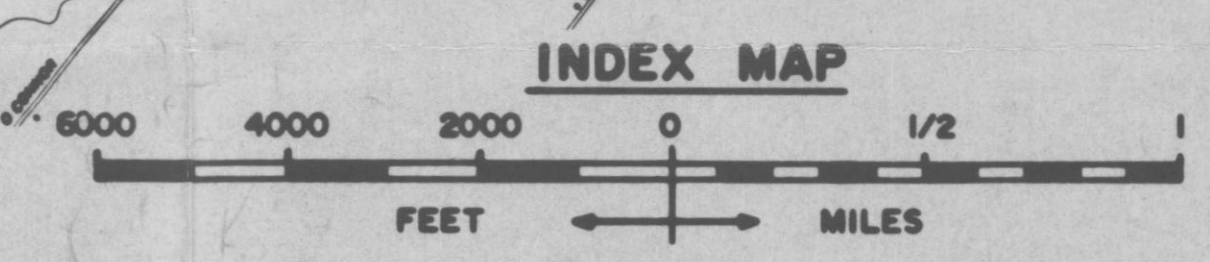
34.5KV STEEL D.E.; 2-20 UNIT STRINGS 5 3/4" x 10", 40,000# UNITS USED ON STEEL D.E. & STRAIN ANGLE STRUCTURES AS DESCRIBED IN N.M.P.C. OVERHEAD TRANSMISSION STANDARD DIST.1 ITEM TA 17.

SUSPENSION WOOD: 1-18 UNIT STRING 5 3/4" x 10", 15,000# USED ON TANGENT STRUCTURES AS DESCRIBED IN N.M.P.C. OVERHEAD TRANSMISSION STANDARD DIST.10 ITEM TA 6.

HORIZONTAL LINE POST: INSULATOR 1500# UNIT AS DESCRIBED IN N.M.P.C. OVERHEAD TRANSMISSION STANDARD, ITEM TI-75.

RUNNING ANGLE WOOD: 1-20 UNIT STRING 5 3/4" x 10", 25,000# UNITS USED ON 11-15° ANGLE STRUCTURES AS DESCRIBED IN N.M.P.C. OVERHEAD TRANSMISSION STANDARD DIST.14 ITEM TA 18.

DOUBLE SUSPENSION INSULATOR: 2-18 UNIT STRINGS 5 3/4" x 10", 15,000# UNITS USED ON TANGENT STRUCTURES AS DESCRIBED IN N.M.P.C. OVERHEAD TRANSMISSION STANDARD DIST.15 ITEM TA 21 (USED ON STRUCTURES #26 & #27)



SAG INCREASE DATA				
LOCATION	R/S	SAG @ 60°	SAG @ 257°	SAG INC.
SCRIBA-VOLNEY #21, 1192.5 45/7 ACSR				
SCRIBA TAKEOFF TO STR #1	325'	FINAL 10'-6"	FINAL 13'-3"	2'-9"
STR #1 TO STR #2	455'	FINAL 8'-0"	FINAL 13'-9"	5'-9"
STR #2 TO STR #31	684'	FINAL 17'-6"	FINAL 25'-4"	7'-10"
STR #31 TO STR #70	660'	FINAL 16'-4"	FINAL 24'-0"	7'-8"
STR #70 TO STR #71	1010'	FINAL 37'-9"	FINAL 47'-7"	9'-10"
STR #71 TO VOLNEY TAKEOFF	600'	FINAL 34'-0"	FINAL 37'-5"	3'-5"
SCRIBA-VOLNEY #20, 2167 MCM 74/7 ACSR				
SCRIBA TAKEOFF TO STR #4	275'	FINAL 10'-7"	FINAL 12'-8"	2'-1"
STR #4 TO STR #5	458'	FINAL 7'-1"	FINAL 14'-3"	7'-2"
NINE MILE-SCRIBA #9, 2167 MCM 74/7 ACSR				
STR #3 TO SCRIBA TAKEOFF	385'	FINAL 20'-1"	FINAL 22'-6"	2'-5"

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APERTURE
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PR 2063 (CKT. #23)
PR 2064 (CKT. #21)

NIAGARA MOHAWK	
NIAGARA MOHAWK POWER CORPORATION SYRACUSE, N.Y.	
NINE MILE TRANSMISSION COMPLEX 34.5KV	
SCRIBA - VOLNEY #21	
NINE MILE - SCRIBA #23	
REFERENCE SHEET	
34.5KV-3#-60~	SINGLE CIRCUIT
B. Thorpe DES. DATE 8-29-83	SCALE AS SHOWN
INDEX 6.2-S18-M5	C-30640-C
SHEET 1A OF 10	