

POWER POLE DETAILS

K&B E. POWER LINE(S) STD. HGT @ 27'1"

12" MIN.

24" MIN. (WHERE APPLICABLE)

K&B E. POWER CONNECTION TO BE MADE BY K&B E. (CONTRACTOR TO INSURE SUFFICIENT WIRE IS LEFT AT WEATHERHEAD TO RUN UP TO AND WIRE CONNECTION AT SECONDARY.)

MOULDING (INSTALLED BY K&B E.)

120 VAC SERVICE ENTRANCE AT EDGER (WEATHERHEAD)

BELL TELEPHONE LINE(S) STD HGT @ 22'6"

6'0"

3' MAX

20' - SD MAX DEPTH

TO CONTROLLER

3/4" ENT

METER BOX (TO BE OBTAINED FROM A.E. INSTALLED BY CONTRACTOR)

WEATHER PROOF FUSEBOX (W/CONNECT 3/4" HUB - 70 AMP MAX 1/1/2 W/BREAKER ACCORDING TO N.E.C.)

CONDUIT (1" - SEE NOTE & DETAILS)

CONDUIT CLAMPS (MAX SPACING - 5')

GROUND CLAMP (WIRE AT STAPLE FASTEN (WIRE - NO BARE - SOLID))

GROUND ROD (5/8" x 8')

REV. DATE	COMMENTS	INT.
Aug. 87	DETAILS A-C - REDO CIRCLES, REMOVE END GUY	JD
Aug. 88	CLAMPS - ADD SHORTER LABEL, WIRE COLOR	JD
Aug. 89	CHANGE WIRING NOTES ON SHEET DISCONNECT	JD
Aug. 90	ADD N. BREAKER NOTE	JD
Aug. 91	ADD BATTERY A/C NOTE (REVISED)	JD
Aug. 92	CHANGE POWER DISCONNECT AND (TO MAIN)	JD
Aug. 93	ADD REMOTE FUSE CONTROLLER BOX	JD
Aug. 94	Change Pole Line Height	JD

1. DROP MAX. AT 5% OF SPAN. (1% SAG)
2. STD. RAKE AT 3%
3. HEIGHT OF STRAIN WIRE HOOK UP TO BE DETERMINED BY FIELD ENGINEER. TRAFFIC SIGNAL CABLE TO BE SECURED TO STRAIN (SPAN) WIRE w/ NON-CORR. NYLON CABLE HANGERS (1/2" CTRS.) DETAIL 'B'
4. TETHER CLAMP TO BE DESIGNED TO RELEASE UNDER 'HIGH WIND LOAD' TO PERMIT SIGNAL 'FREE SWING'.
5. CONTRACTOR TO GIVE 24 HR. NOTICE TO ENGINEER PRIOR TO POURING ANY SIGNAL BASE OR CONTROLLER PAD.

METER BOX ASSEMBLY DETAILS

WEATHERPROOF POWER DISCONNECT ASSEMBLY DETAILS

NOTE:
 FROM WIRE TO CONTROLLER USE:
 1" RIGID STEEL GALV CONDUIT WITH 1/2" TYPE THIN STRANDED WIRE.

**POWER - #6 AWG BLACK
 NEUTRAL - #6 AWG WHITE
 GROUND - #8 AWG GREEN**

DETAILS:
 STEEL STRAIN POLE
 SIMPLEX FITTING (FOR LIGHTING) TYPICAL ON 35' JOINT USE POLE
 SEC. DETAIL "A"
 PROPER SIZED SERVING SLEEVE TO BE INSTALLED AT CABLE END.
 STRAIN WIRE
 SEE NOTE #1
 TETHER WIRE
 SLOPE
 SEE NOTE #2
 GROUND LUG
 ALL THREAD NUT
 LOCK NUT
 2 POLE ARRESTER 120/240 VAC
 #8 AWG (GREEN) GROUND WIRE TO CONTROLLER GND.
 A SINGLE CONDUCTOR STRANDED 1/2" GREEN WIRE SHALL CARRY THE EQUIP. GROUND FROM THE GND. LUG OF ALL SIGNAL POLES TO CONTROLLER (ARREST AND THE POWER DISCONNECT BOX).
 GROUND WIRE (#6 BARE SOLID)
 CONDUIT (FROM TO CONTROLLER)

A

STRAIN POLE ASSEMBLY DETAILS

NOTE: SEE STEEL MULE ASSY DETAIL SMT FOR STRAIN POLE BASE DETAILS.

STRAIN AND TETHER WIRE, GUY, GUY STRAND (1/2" WIRE), SIG* SML (\$350*TEST) NGHT. PER 1020 @ 205

STRAIN CLAMP

STRAIN WIRE HOOK-UP ASS'Y.

CABLE EXIT
MULTI-CONDUCTOR SIGNAL CABLE

THIMBLE EYE NUT (GALV.) ASSEMBLY

STRAIN WIRE (SIG* DIA.)

5 VOLT GUY CLAMP

B

SIGNAL BRACKET ASSEMBLY DETAILS

BLACK WEATHERABLE NYLON TIE
WRAP CABLE TIES (CLIP EXCESS STRAP)

SIG* STRAIN WIRE
CABLE SADDLE CLAMP
MULTI-CONDUCTOR SIGNAL CABLE
WIRE ENTRANCE / BALANCE ADJUST.
CIRCUIT QUICK DISCONNECT
HANGER
TOP BRACKET (FOR SIGNAL ASSY.)
BOTTOM BRACKET
SIG* TETHER WIRE
5 VOLT GUY CLAMP (NOTE NTO. TO BOTTOM BRACKET)

SIGNAL PASTER ASSY.

DRILL: 1/2" HOLE
EXTRA LENGTH BOLT

The diagram illustrates a vertical steel pole assembly with various components and their connections. The components are labeled as follows:

- BACK PLATE
- JAM NUT
- GALV THIMBLE EYE NUT
- GUY WIRE (5/16")
- 3 BOLT GUY CLAMP
- FEEDUT PLATE
- STRAIN WIRE
- POWER LINES (20VAC)
- WEATHERHEAD ENT (FOR POWER LINES)
- 2 HOLE (METAL) CLAMP (5" MAX. ETS.)
- WEATHERHEAD ENT (FOR MULTI CONDUCTOR SIGNAL CABLE)
- 2 HOLE (METAL) CLAMP (5" MAX. ETS.)
- GALV THIMBLE EYE BOLT
- FEEDUT PLATE
- STRAIN WIRE
- POWER LINES (20VAC)
- WEATHERHEAD ENT (FOR POWER LINES)
- 2 HOLE (METAL) CLAMP (5" MAX. ETS.)
- WEATHERHEAD ENT (FOR MULTI CONDUCTOR SIGNAL CABLE)
- 2 HOLE (METAL) CLAMP (5" MAX. ETS.)

NOTE: GALV THIMBLE EYE ANCHOR BOLT AND EXPANDING ANCHOR (NOT SHOWN) TO STABILIZE MOOD POLE (WHERE APPLICABLE)

2. ANY COMBINATION OF ROUND THIMBLE EYE BOLTS AND NUTS MAY BE UTILIZED AS APPLICATION MAY VARY. FIELD ENGINEER TO DETERMINE TYPE OF HARDWARE USED.

3. HARDWARE SHOWN IS TRANSFERABLE TO STEEL POLE IN WHOLE OR PART WHERE STEEL STRAIN POLE IS USED. POWER, SIGNAL CABLE, WIRE (ETC.) FIELD ENGINEER TO MAKE DETERMINATION. STEEL STRAIN POLE APPLICATIONS MAY VARY AS TO MOUNTINGS ON POLE USE OF CLAMPS, BANDS, BRACKETS, ETC. ARE STD. - FIELD ENGINEER TO DETERMINE. BEST TYPE APPLICATIONS.

PROJECT DESCRIPTION		
POWER POLE AND SPAN POLE ASSEMBLY DETAILS		
- STANDARD APPLICATIONS -		
PROJECT NUMBER		
BOOK NO.	APPROVED BY	DATE SEPT. 03
DRAWN BY SCAL		REVISED 1-85 (SCAL) (SCAL)
CITY OF WICHITA		
DEPARTMENT OF PUBLIC WORKS		
TRAFFIC ENGINEERING		SCALE DO NOT SCALE: INFO ONLY
WM. G. MCKINLEY TRAFFIC ENGINEER		33 of 58