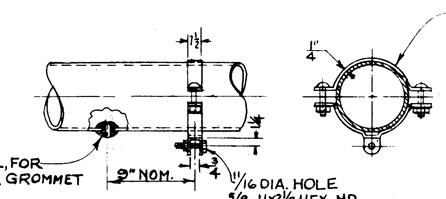
MATERIAL REQUIRED	
Quantity	Description

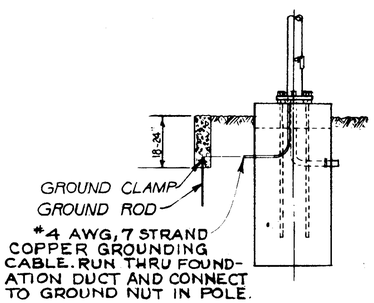
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

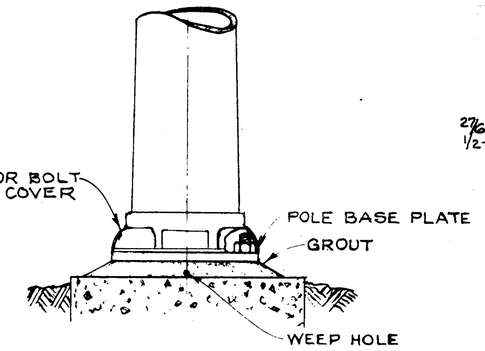
43
46

LAK-20/84/283/306/615

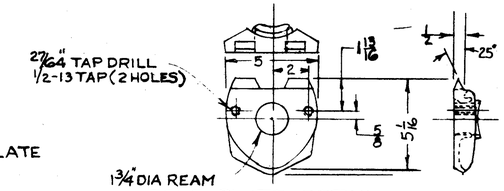


TYPICAL SIGNAL HANGER DETAIL

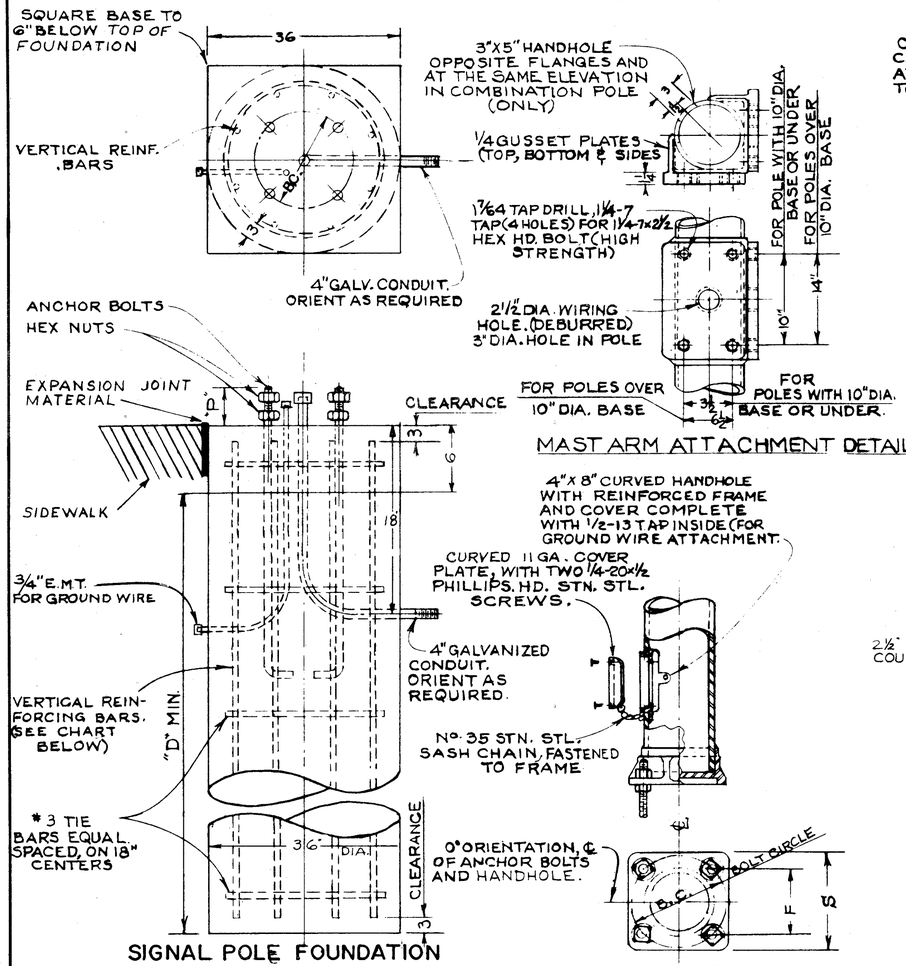




GROUTING DETAIL

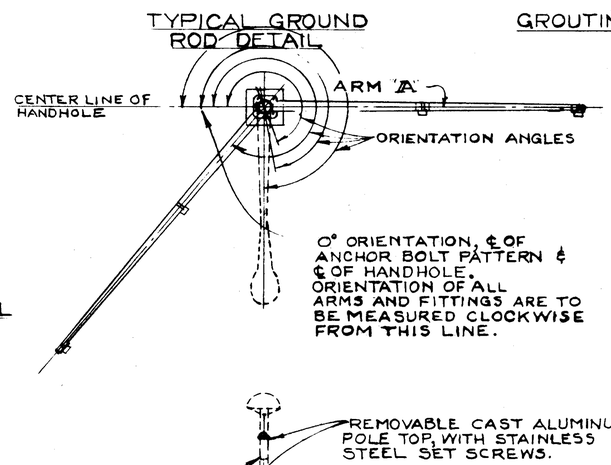


POLE PLATE DETAIL
FOR LIGHT BRACKET ARM ATTACHMENT



SIGNAL POLE FOUNDATION

MAST ARM ATTACHMENT DETAIL



TYPICAL GROUND ROD DETAIL

4" X 8" CURVED HANDHOLE WITH REINFORCED FRAME AND COVER COMPLETE WITH 1/2-13 TAP INSIDE (FOR GROUND WIRE ATTACHMENT.

CURVED 11 GA. COVER PLATE, WITH TWO 1/4-20x1/2 PHILLIPS. HD. STN. STL. SCREWS.

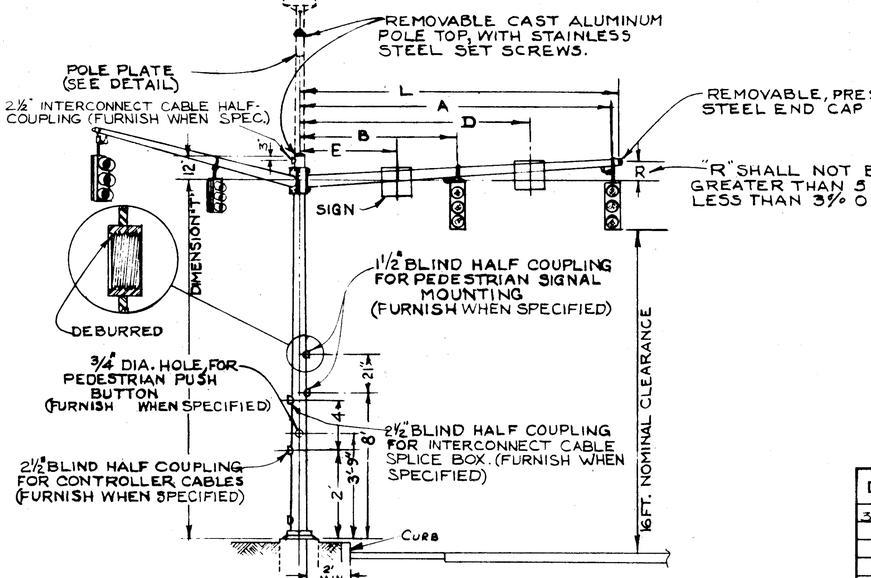
4" GALVANIZED CONDUIT. ORIENT AS REQUIRED.

No. 35 STN. STL. SASH CHAIN, FASTENED TO FRAME

ANCHOR BASE DETAIL

FOUNDATION SCHEDULE

FOUNDATION TYPE	POLE SIZE	"D" MIN.	BOLT CIRCLE	ANCHOR BOLT SIZE DIA.	ANCHOR BOLT SIZE LGTH	VERTICAL REINF. BAR DIA.	VERTICAL REINF. BAR NO REQ	PROJECTION "P"
A	3 GA. 12"	9'-6"	16"	1 3/4	90"	1"	8	6 3/4"
B	7 GA. 12"	8'-6"	16"	1 1/2	60"	3/4"	8	6 1/2"
C	3 GA. 11"	9'-6"	15"	1 3/4	90"	1"	8	6 3/4"
D	7 GA. 11"	8'-6"	15	1 1/2	60"	3/4"	8	6 1/2"
E	3 GA. 10"	8'-6"	13 1/2	1 1/2	60"	3/4"	8	6 1/2"
F	7 GA. 10"	8'-6"	13 1/2	1 1/2	60"	3/4"	8	6 1/2"
G	7 GA. 9"	8'-6"	12 1/2	1"	40"	3/4"	8	6"
H	3 GA. 13"	9'-6"	18"	1 3/4	90"	1"	8	7"
J	3 GA. 14"	9'-6"	20"	1 3/4	80"	1"	8	7 3/4"
K								



TYPICAL COMBINATION LIGHT AND SIGNAL POLE WITH MAST ARM SUSPENSION

Rev. 12-12-69

TRAFFIC SIGNAL POLE FOUNDATIONS

THE CONTRACTOR SHALL STAKE THE LONGITUDINAL AND LATERAL LOCATION, AND THE ELEVATION OF THE TOP OF EACH FOUNDATION SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER ELEVATION, OFFSET, AND LEVEL OF EACH FOUNDATION. THE FOUNDATION LOCATIONS MAY BE CHANGED AS DIRECTED BY THE ENGINEER, IN CASE OF SLOPE OR SUBSURFACE DIFFICULTIES.
EXCAVATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 503. EXCAVATION SHALL BE TO THE DIMENSIONS SHOWN ON THE PLANS, AND SHALL BE PERFORMED BY MEANS OF AN EARTH AUGER OF THE SPECIFIED DIA., UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHERE SUBSURFACE OBSTRUCTIONS ARE ENCOUNTERED, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REMOVE THE OBSTRUCTION OR TO REPLACE THE EXCAVATED MATERIAL AND RELOCATE THE FOUNDATION.
IF CAVING OF THE EXCAVATION OCCURS, THE CONTRACTOR SHALL EXCAVATE THE SPECIFIED DEPTH MAINTAINING THE SIDES AS NEARLY VERTICAL AS POSSIBLE.
CONCRETE, CLASS C, SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 511, AND SHALL BE PLACED AGAINST UNDISTURBED SOIL OR COMPACTED EMBANKMENT.
STEEL REINFORCEMENT BARS, WHERE REQUIRED, SHALL BE POSITIONED AS SHOWN ON THE PLANS AND PLACED IN ACCORDANCE WITH ITEM 509.
CYLINDRICAL ANCHOR BASE TYPE FOUNDATIONS FOR TRAFFIC SIGNAL POLES SHALL HAVE ANCHOR BOLTS AND CONDUIT ACCURATELY HELD IN POSITION WITH A TEMPLET WHILE CONCRETE IS PLACED. FORMS SHALL BE USED FOR THE UPPER PORTIONS OF ALL FOUNDATIONS AND NO BACK-FILLING SHALL BE PERMITTED FROM THE BOTTOM TO SIX INCHES BELOW THE GRADE LEVEL.
AFTER FINAL ADJUSTMENT OF THE POLE BASE HAS BEEN COMPLETED, PLACE CONCRETE GROUTING BETWEEN FOUNDATION TOP AND THE POLE BASE PLATE, AS PER DETAIL SHOWN ON THIS DRAWING.
IN CASES WHERE SOLID ROCK IS ENCOUNTERED FOR SIGNAL POLE FOUNDATIONS, THE DEPTH TO BE EXCAVATED BELOW THE ROCK SURFACE MAY BE DECREASED BY THE ENGINEER TO A MAXIMUM OF 35 PERCENT.
THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY) FOR POOR SOIL CONDITION INCREASE "D" MIN. BY: 50% IN DRY OR
100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT DEPENDING ON QUICK SAND ACTION.

PAINTING

AFTER ERECTION, TWO FIELD COATS OF PAINT SHALL BE APPLIED IN ACCORDANCE WITH 514 OF CONSTRUCTION AND MATERIAL SPECIFICATION.

GROUND ROD

A COPPER-CLAD GROUND ROD 3/4" IN DIAMETER X 10' LONG SHALL BE DRIVEN IN THE BOTTOM OF THE CABLE TRENCH APPROXIMATELY ONE FOOT FROM THE POLE FOUNDATION. THE TOP OF THE ROD SHALL BE DRIVEN TO A DEPTH OF APPROXIMATELY 18" BELOW THE TOP OF THE TRENCH. THE MAXIMUM ACCEPTABLE EARTH RESISTANCE SHALL BE 25 OHMS. THE GROUNDING CONDUCTOR SHALL BE ATTACHED TO THE GROUND ROD BY MEANS OF A COPPER OR A COPPER-CLAD GROUND CLAMP

DATE	REVISIONS
3-28-69	CHANGED HEIGHT OF CONTROLLER HALF-COUPLING FROM 3' TO 2 1/2', ADDED HALF-COUPLING FOR INTERCONNECT SPLICE BOX
4-18-69	CHANGED HEIGHT OF CONTROLLER HALF COUPLING FROM 2 1/2' TO 2'
4-28-69	ADDED INTERCONNECT HALF-COUPLING AT TOP OF POLE
5-20-69	REVISED FOUNDATION SCHEDULE

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

COMBINATION LIGHT AND SIGNAL POLE DETAILS.

Division 12 County Lake 1" = —

APPROVED _____ ENGINEER OF TRAFFIC DATE _____ PRIORITY NO.

DESIGNED	DRAWN	REVISED	CHECKED	REVIEWED
	[illegible]			

SHEET _____ OF _____