

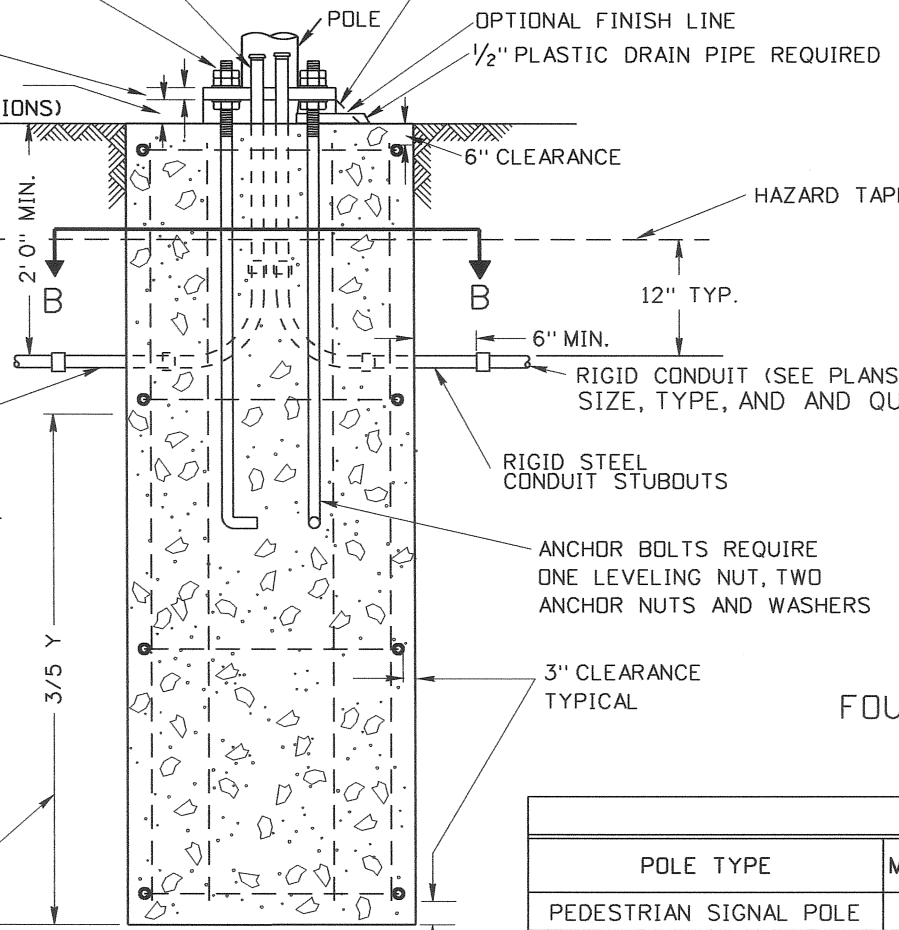
4" TO 6" STUBS AND INSULATED BONDING BUSHING REQ'D ON METALLIC CONDUIT

SEE NOTE NO. 10

PER MANUFACTURERS' SPECIFICATIONS

2 1/2" MIN. 3" MAX. (NON-BREAKAWAY FOUNDATIONS)

SIDEWALK OR GRADE LINE

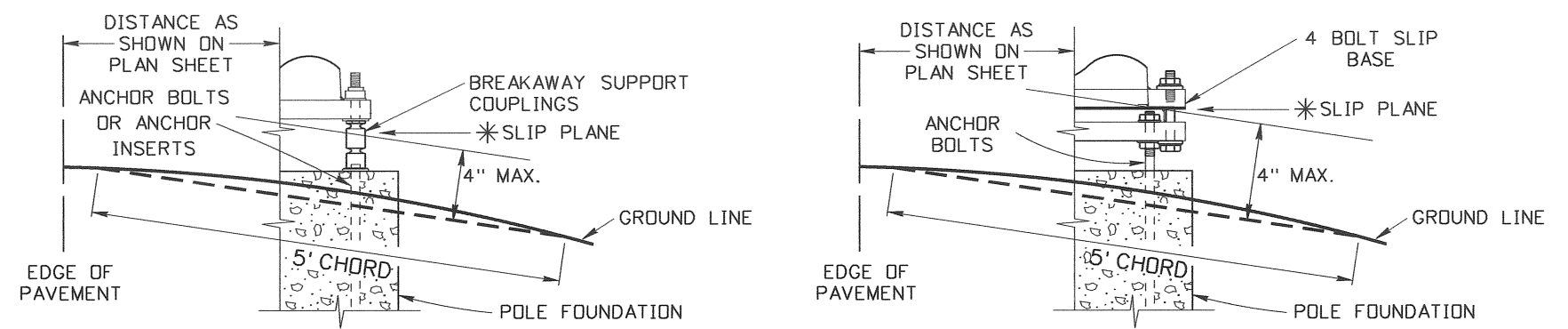


TYPICAL POLE FOUNDATION SECTION AA

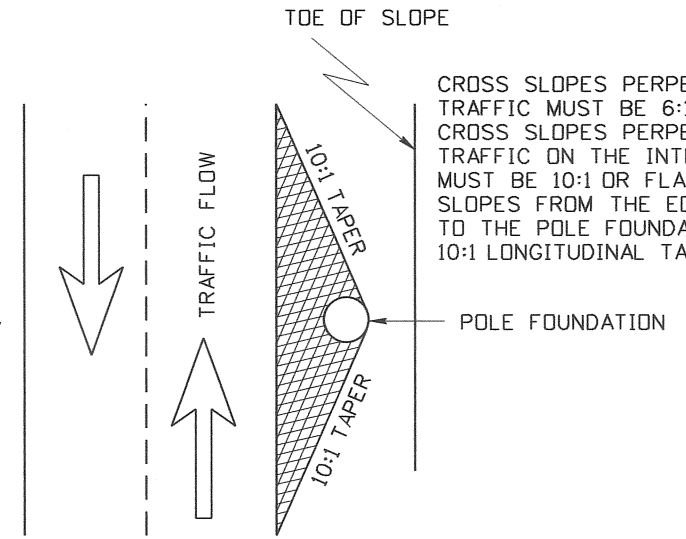
THE LOWER 3/5 OF THE FOUNDATION TO BE PLACED AGAINST UNDISTURBED SOIL UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE UPPER 2/5 OF THE FOUNDATION MAY BE FORMED AS NEEDED.

NOTE:
GROUT AFTER POLE HAS BEEN PLUMBED. LEAVE CAVITY UNDER CENTER OF BASE PLATE.
DO NOT GROUT IF BREAKAWAY DEVICES ARE USED.
OPTIONAL FINISH LINE
1/2" PLASTIC DRAIN PIPE REQUIRED

* THE SLIP PLANE OF A BREAK AWAY POLE FOUNDATION SHALL NOT BE MORE THAN 4 INCHES FROM A 5.0 FOOT CHORD PERPENDICULAR TO THE CONTROL LINE OF THE ROADWAY. THE CHORD SHALL INTERSECT THE SIDE SLOPE ON EACH SIDE OF THE FOUNDATION.



BREAKAWAY SUPPORT CLEARANCE DIAGRAMS



CROSS SLOPES PERPENDICULAR TO THE FLOW OF TRAFFIC MUST BE 6:1 OR FLATTER. CROSS SLOPES PERPENDICULAR TO THE FLOW OF TRAFFIC ON THE INTERSTATE SYSTEM MUST BE 10:1 OR FLATTER. SLOPES FROM THE EDGE OF THE ROADWAY TO THE POLE FOUNDATION SHOULD HAVE A 10:1 LONGITUDINAL TAPER

NOTES:

1. THE FOUNDATIONS SHALL BE LOCATED AS INDICATED ON THE PROJECT PLAN SHEETS.
2. FOUNDATION REBAR CAGES MAY BE WELDED IF THE STEEL REBAR CONFORMS TO ASTM A706/A706M AND ALL WELDING CONFORMS TO ANSI/AWS D1.4 (STRUCTURAL WELDING CODE - REINFORCING STEEL).
3. REBAR IN POLE FOUNDATIONS SHALL BE 60 KSI STEEL.
4. STEEL TEMPLATE REQUIRED FOR ANCHOR BOLT PLACEMENT.
5. SPARE STUBOUTS WHEN SHOWN ON PLAN SHEETS SHALL BE TERMINATED WITH A STEEL COUPLING AND FOAM PLUG AT BOTH ENDS.
6. CLASS 40B CONCRETE SHALL BE USED IN POLE FOUNDATIONS.
7. CONCRETE FOUNDATIONS SHALL ACHIEVE 100% STRENGTH AND CURE FOR A MINIMUM OF 7 DAYS BEFORE ANY LOADING IS APPLIED.
8. FIBER JOINT MATERIAL WILL BE PLACED AROUND POLE FOUNDATION WHEN POLE FOUNDATION IS IN CONTACT WITH SIDEWALK.
9. ELEVATION OF POLE FOUNDATION SHALL MATCH THE ADJACENT PAVEMENT EDGE OR SIDEWALK ELEVATION.
10. ANCHOR BASE ASSEMBLIES SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SUBSECTION 619.03 OF THE ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE SUPPLEMENTAL SPECIFICATIONS.

POLE FOUNDATION SCHEDULE

| POLE TYPE | MT.HT. | MASTARM LENGTH | FOUNDATION TYPE | X | Y | HOOPS | | | VERTICAL RODS | | | CU. YDS. CONCRETE |
|----------------------------|---------|----------------|-----------------|-------|--------|-------|------|---------|---------------|------|---------|-------------------|
| | | | | | | NO. | SIZE | LIN.FT. | NO. | SIZE | LIN.FT. | |
| PEDESTRIAN SIGNAL POLE | - | - | A | 2'-0" | 5'-0" | 4 | *4 | 20'-10" | 6 | *4 | 25'-6" | .6 |
| LIGHT POLE | 30' | ALL | A | 2'-0" | 5'-0" | 4 | *4 | 20'-10" | 6 | *4 | 25'-6" | .6 |
| LIGHT POLE | 35' | ALL | B | 2'-6" | 7'-0" | 4 | *4 | 27'-2" | 6 | *6 | 37'-6" | 1.3 |
| LIGHT POLE | 40'-50' | ALL | C | 3'-0" | 8'-0" | 5 | *4 | 41'-10" | 8 | *6 | 58'-0" | 2.1 |
| SIGNAL POLE | | 20' - 45' | D | 3'-0" | 9'-0" | 5 | *4 | 41'-10" | 8 | *6 | 66'-0" | 2.4 |
| PEDESTRIAN PUSHBUTTON POLE | 4'-0" | - | E | 1'-6" | 2'-6" | - | - | - | - | - | - | .2 |
| DUAL MASTARM SIGNAL POLE | - | ALL | F | 3'-0" | 12'-0" | 8 | *5 | 66'-10" | 12 | *6 | 135'-0" | 3.1 |
| SIGNAL POLE | - | 50' - 55' | F | 3'-0" | 12'-0" | 8 | *5 | 66'-10" | 12 | *6 | 135'-0" | 3.1 |

| REVISIONS | | | | | | | | |
|-----------|-------|-----|-----|------|----|-----|------|----|
| NO. | DATE | BY | NO. | DATE | BY | NO. | DATE | BY |
| 1 | 08-96 | HEB | | | | | | |
| 2 | 07-03 | HEB | | | | | | |
| 3 | 05-05 | HEB | | | | | | |
| 4 | 07-10 | EBG | | | | | | |

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: i7c_0710.std
DRAWING DATE: DECEMBER, 1994

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

Thomas
ASSISTANT CHIEF ENGINEER (DEVELOPMENT)
CHIEF ENGINEER

STANDARD DRAWING
MASTARM SIGNAL POLE, LIGHTING POLE AND PEDESTRIAN POLE FOUNDATION DETAILS

English
STANDARD DRAWING NO. I-7-C
SHEET 1 OF 1

