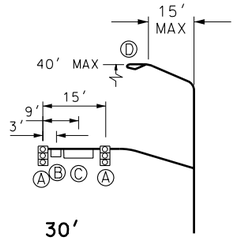
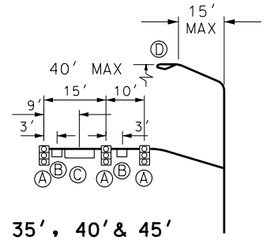
DESIGN INFORMATION

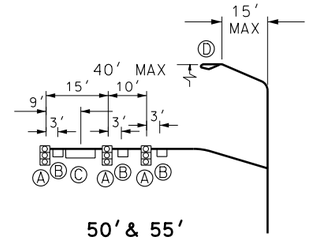


30′ MAST ARM

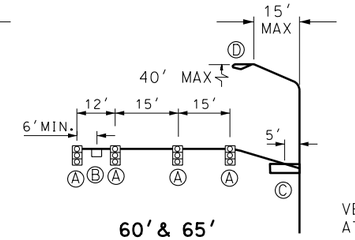
FIELD CUT END OF MAST ARM IF 25′ MAST ARM LENGTH IS REQUIRED. REQUISITION 35′/ 40′ MAST ARM HARDWARE KIT FOR CORRECT SIZE END CAP.



35′, 40′ & 45′ MAST ARMS



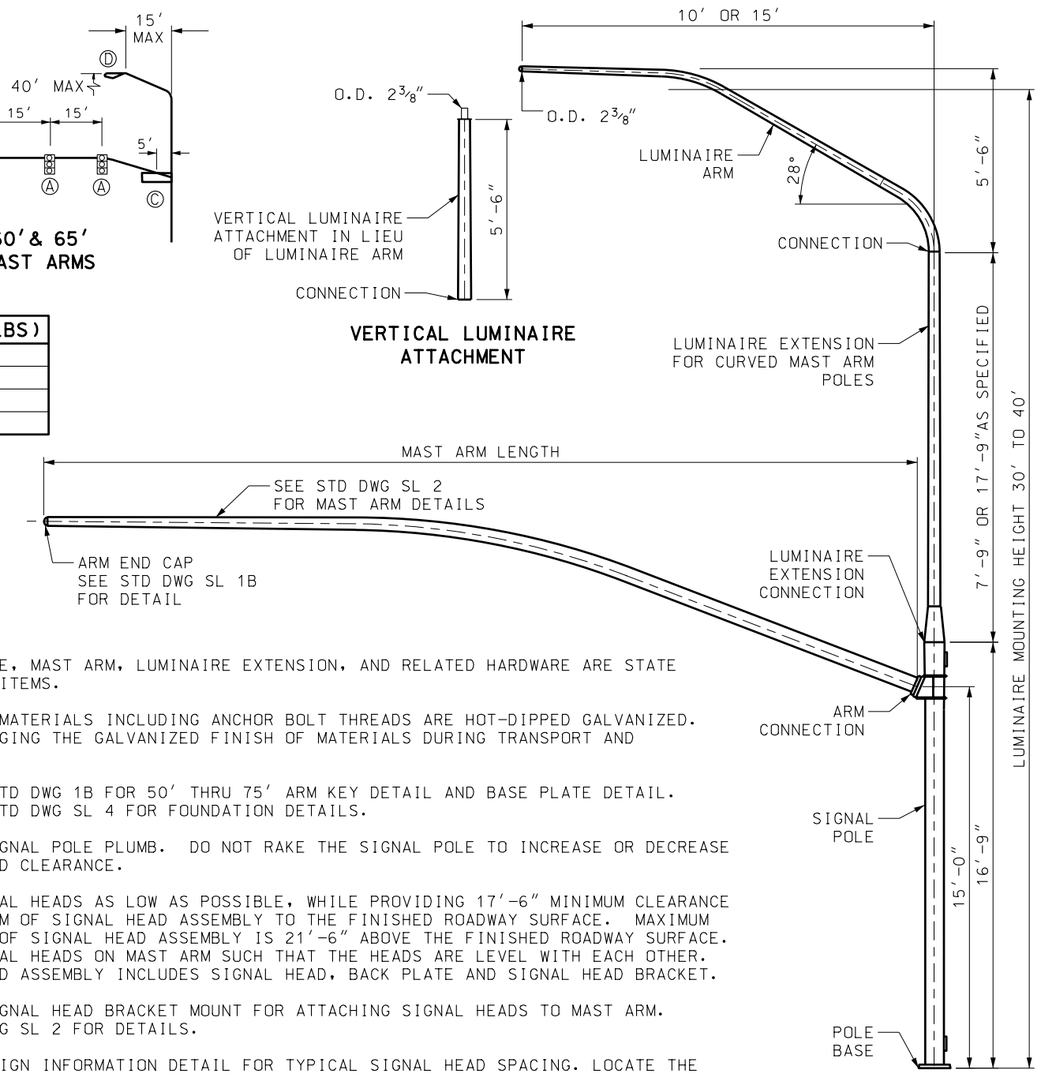
50′ & 55′ MAST ARMS



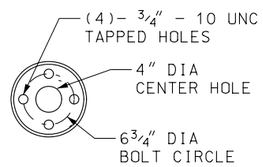
60′ & 65′ MAST ARMS

DEVICE	DESCRIPTION/SIZE	PROJECTED AREA (SF)	WEIGHT(LBS)
Ⓐ SIGNAL	12″, 3-SECTION WITH BACK PLATE	8.7	55
Ⓑ SIGN	REGULATORY 24″ x 30″	5.0	20
Ⓒ SIGN	STREET NAME 22″ x 96″ (MAX)	10.7	43
Ⓓ LUMINAIRE	ROADWAY LUMINAIRE	3.3	65

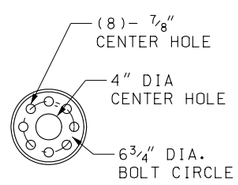
VERTICAL LUMINAIRE ATTACHMENT



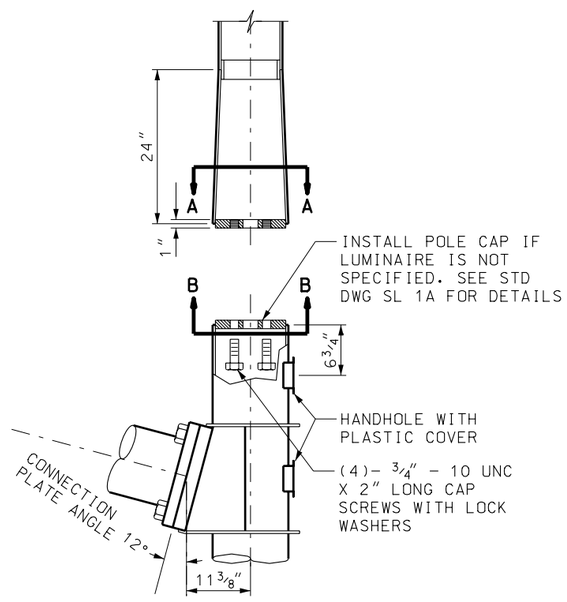
SEE STD DWG SL 4 FOR FOUNDATION REQUIREMENTS



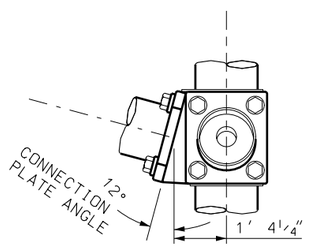
SECTION A-A



SECTION B-B



30′ THRU 65′ ARM POLE EXTENSION AND CONNECTION DETAIL



30′ THRU 45′ DUAL ARM POLE CONNECTION DETAIL

NOTES:

1. SIGNAL POLE, MAST ARM, LUMINAIRE EXTENSION, AND RELATED HARDWARE ARE STATE FURNISHED ITEMS.
2. ALL STEEL MATERIALS INCLUDING ANCHOR BOLT THREADS ARE HOT-DIPPED GALVANIZED. AVOID DAMAGING THE GALVANIZED FINISH OF MATERIALS DURING TRANSPORT AND PLACEMENT.
3. REFER TO STD DWG 1B FOR 50′ THRU 75′ ARM KEY DETAIL AND BASE PLATE DETAIL. REFER TO STD DWG SL 4 FOR FOUNDATION DETAILS.
4. INSTALL SIGNAL POLE PLUMB. DO NOT RAKE THE SIGNAL POLE TO INCREASE OR DECREASE SIGNAL HEAD CLEARANCE.
5. PLACE SIGNAL HEADS AS LOW AS POSSIBLE, WHILE PROVIDING 17′-6″ MINIMUM CLEARANCE FROM BOTTOM OF SIGNAL HEAD ASSEMBLY TO THE FINISHED ROADWAY SURFACE. MAXIMUM ELEVATION OF SIGNAL HEAD ASSEMBLY IS 21′-6″ ABOVE THE FINISHED ROADWAY SURFACE. PLACE SIGNAL HEADS ON MAST ARM SUCH THAT THE HEADS ARE LEVEL WITH EACH OTHER. SIGNAL HEAD ASSEMBLY INCLUDES SIGNAL HEAD, BACK PLATE AND SIGNAL HEAD BRACKET.
6. PROVIDE SIGNAL HEAD BRACKET MOUNT FOR ATTACHING SIGNAL HEADS TO MAST ARM. SEE STD DWG SL 2 FOR DETAILS.
7. FOLLOW DESIGN INFORMATION DETAIL FOR TYPICAL SIGNAL HEAD SPACING. LOCATE THE CENTER OF END SIGNAL HEAD 1′ FROM THE END OF MAST ARM. FOR NON-TYPICAL INSTALLATIONS PROVIDE NO LESS THAN 8′- 0″ MINIMUM SPACING BETWEEN SIGNAL HEADS. DO NOT LOAD MAST ARM MORE AGGRESSIVELY THAN SHOWN WITHOUT CHECKING WITH MANUFACTURER.
8. INSTALL POLE CAP ON TOP OF SIGNAL POLE IF LUMINAIRE EXTENSION IS NOT USED. SEE STD DWG SL 1B FOR DETAIL.

STATE FURNISHED ITEMS	
ITEM	**CONTENTS**
MAST ARM SIGNAL POLE WITH HARDWARE KIT	MAST ARM SIGNAL POLE, CONNECTION BOLTS, PLASTIC HANDHOLE COVERS, POLE CAP, AND SCREWS
DUAL MAST ARM SIGNAL POLE WITH HARDWARE KIT	MAST ARM SIGNAL POLE, CONNECTION BOLTS, PLASTIC HANDHOLE COVERS, POLE CAP, AND SCREWS
MAST ARM WITH HARDWARE KIT	MAST ARM, END CAP AND SCREWS, AND THRU BOLT (FOR TWO-PIECE ARMS)
LUMINAIRE EXTENSION WITH HARDWARE KIT	LUMINAIRE EXTENSION, CONNECTION BOLTS, WASHERS, AND NUTS
LUMINAIRE ARM OR VERTICAL ATTACHMENT	LUMINAIRE ARM OR VERTICAL ATTACHMENT

REVISIONS

NO.	DATE	APPR.	REMARKS
1	02/23/06	L.M.	ENTIRE DRAWING REVISED.

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — FEB.23.2006 DATE
CHAIRMAN STANDARDS COMMITTEE APPROVED — FEB.23.2006 DATE
DEPUTY DIRECTOR

TRAFFIC SIGNAL MAST ARM POLE AND LUMINAIRE EXTENSION

STANDARD DRAWING TITLE

STD DWG
SL 1A

DGN File: L:\Standard Drawings\Imperial\2005\approved\xChange6\approved\sl01A.dgn
01-MAR-2006