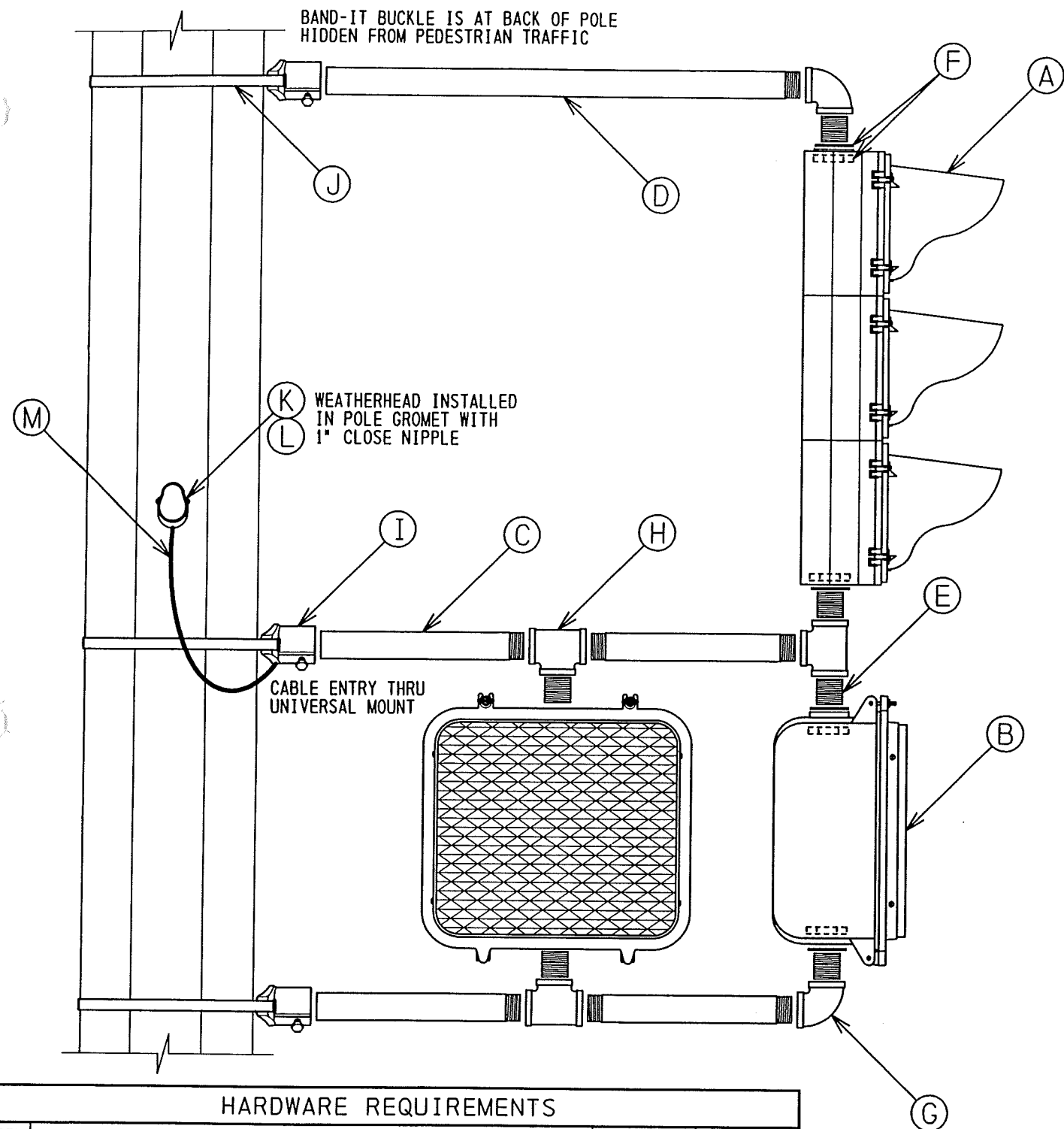
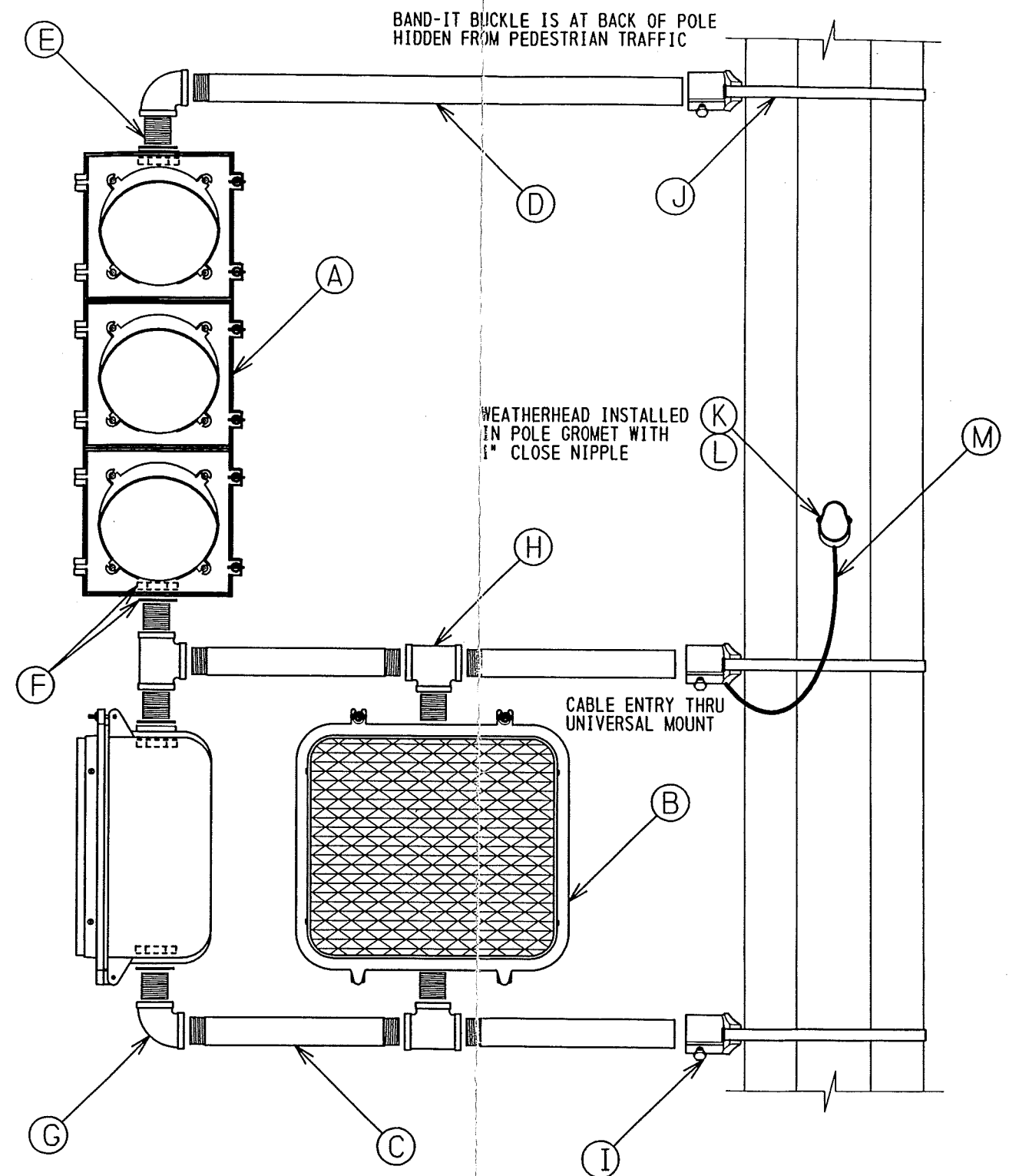




HARDWARE REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY
A	TRAFFIC LIGHTS AS SPECIFIED	1
B	IDC 18" WALK / WAIT LIGHT	2
C	1 1/2" x 14" GALVANIZED RIGID CONDUIT	4
D	1 1/2" x 32" GALVANIZED RIGID CONDUIT	1
E	1 1/2" CLOSE NIPPLE	6
F	1 1/2" LOCK NUT c/w FIBRE WASHER	6
G	1 1/2" RLY - L	2
H	1 1/2" RLY - T	3
I	UNIVERSAL POLE MOUNT	3
J	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	3
K, L	1" WEATHERHEAD, 1" CLOSE NIPPLE	1
M	IMSA SIGNALS CABLE	VARIES



NOTE :

NIPPLE LENGTHS VARY DEPENDING ON POLE ALIGNMENT AND CLEARANCE FROM TRAFFIC.
STANDARD LENGTHS OF NIPPLE FROM END TO END ARE 6, 7 1/2, 12, 14 AND 32 INCHES
PIPE THREAD IS 1" AT EACH END

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

STANDARD POLE MOUNT FIXTURES TRAFFIC AND WALK/WAIT LIGHT

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

Scale:

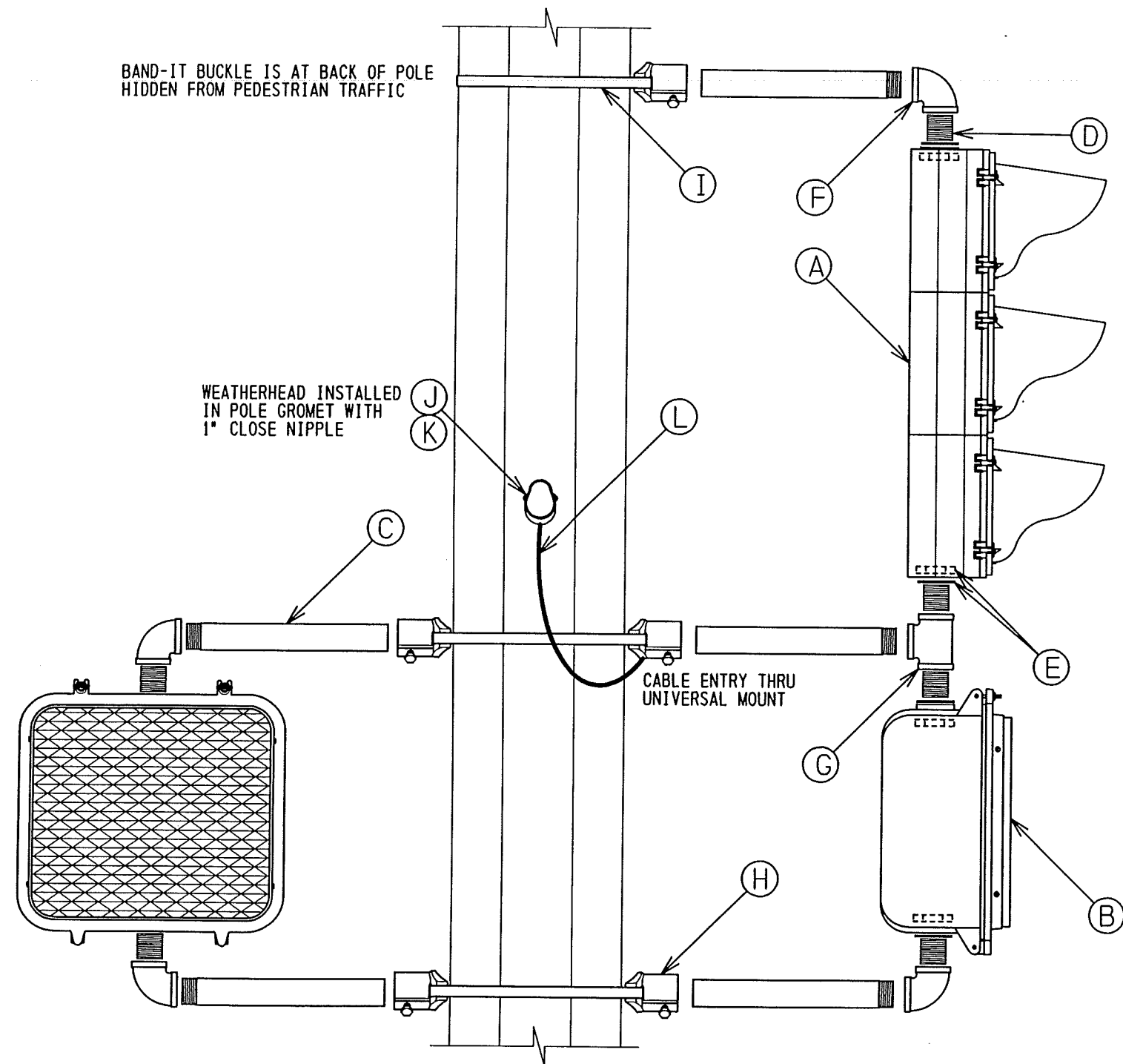
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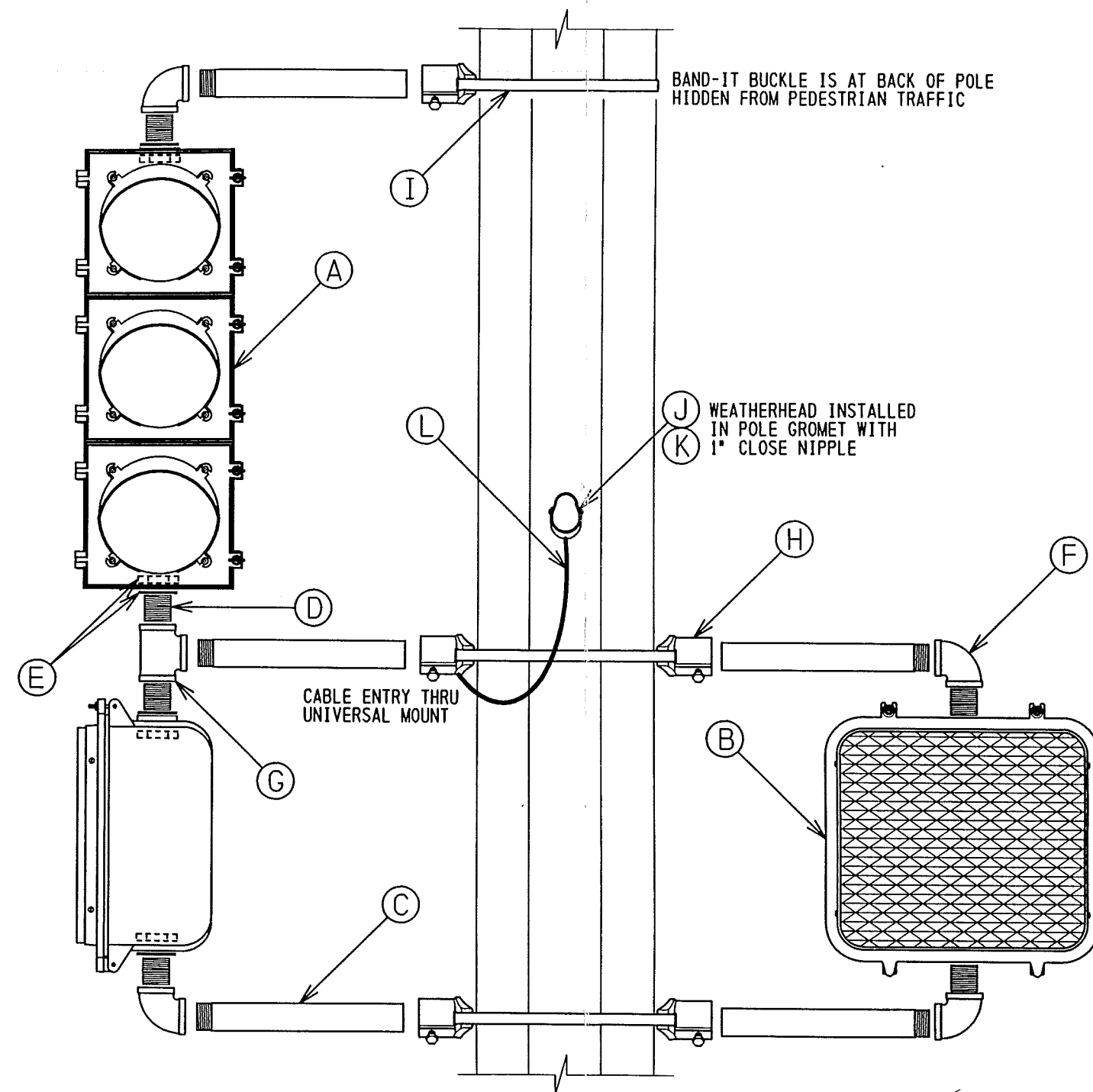
Revision No.

Drawing No.



WEATHERHEAD INSTALLED
IN POLE GROMET WITH
1" CLOSE NIPPLE

CABLE ENTRY THRU
UNIVERSAL MOUNT



WEATHERHEAD INSTALLED
IN POLE GROMET WITH
1" CLOSE NIPPLE

CABLE ENTRY THRU
UNIVERSAL MOUNT

HARDWARE REQUIREMENTS

NOTE :

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED



Scale:

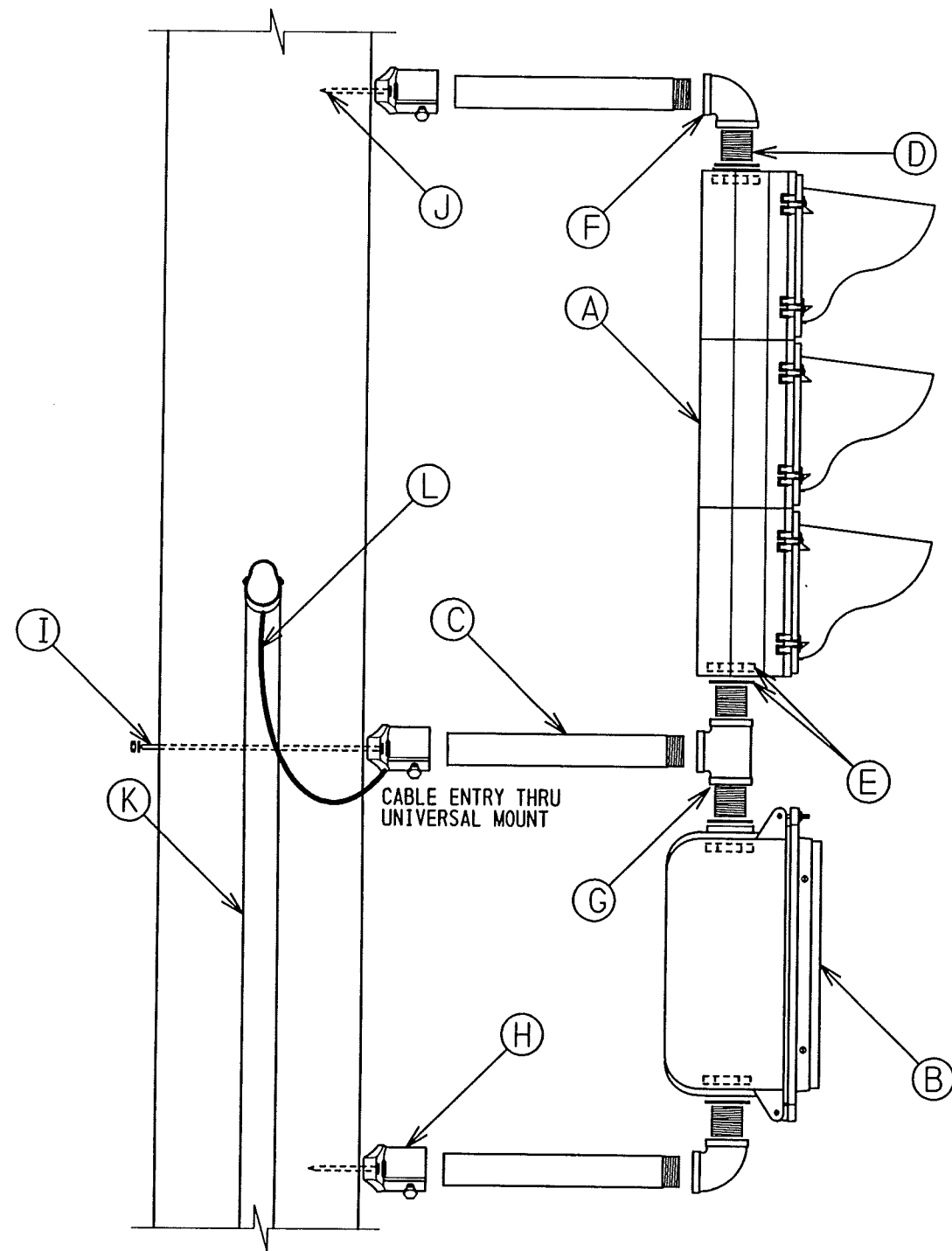
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Date Approved:

Approved

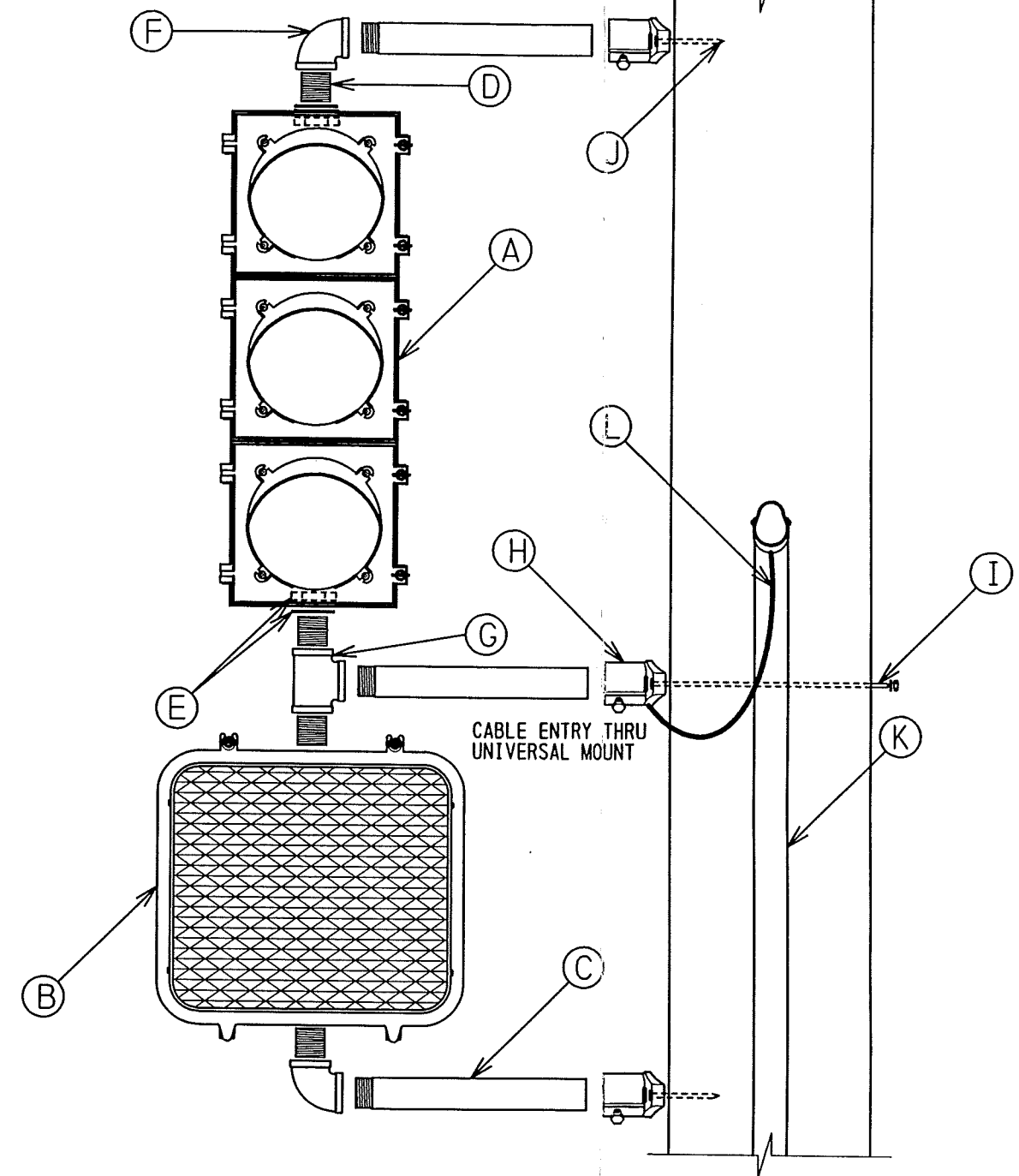
Revision No.

Drawing No.



HARDWARE REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY
A	TRAFFIC LIGHTS AS SPECIFIED	1
B	IDC 18" WALK / WAIT LIGHT	1
C	1 1/2" x 14" GALVANIZED RIGID CONDUIT	3
D	1 1/2" CLOSE NIPPLE	4
E	1 1/2" LOCK NUT c/w FIBRE WASHER	4
F	1 1/2" RLY - L	2
G	1 1/2" RLY - T	1
H	UNIVERSAL POLE MOUNT	3
I	5/8" x 14" (VARIES) BOLT c/w NUT & WASHER	2
J	5/8" x 4" LAG SCREW	4
K	2" LATERAL c/w WEATHERHEAD, ADAPTER & STRAPPING	1
L	IMSA SIGNALS CABLE	VARIES

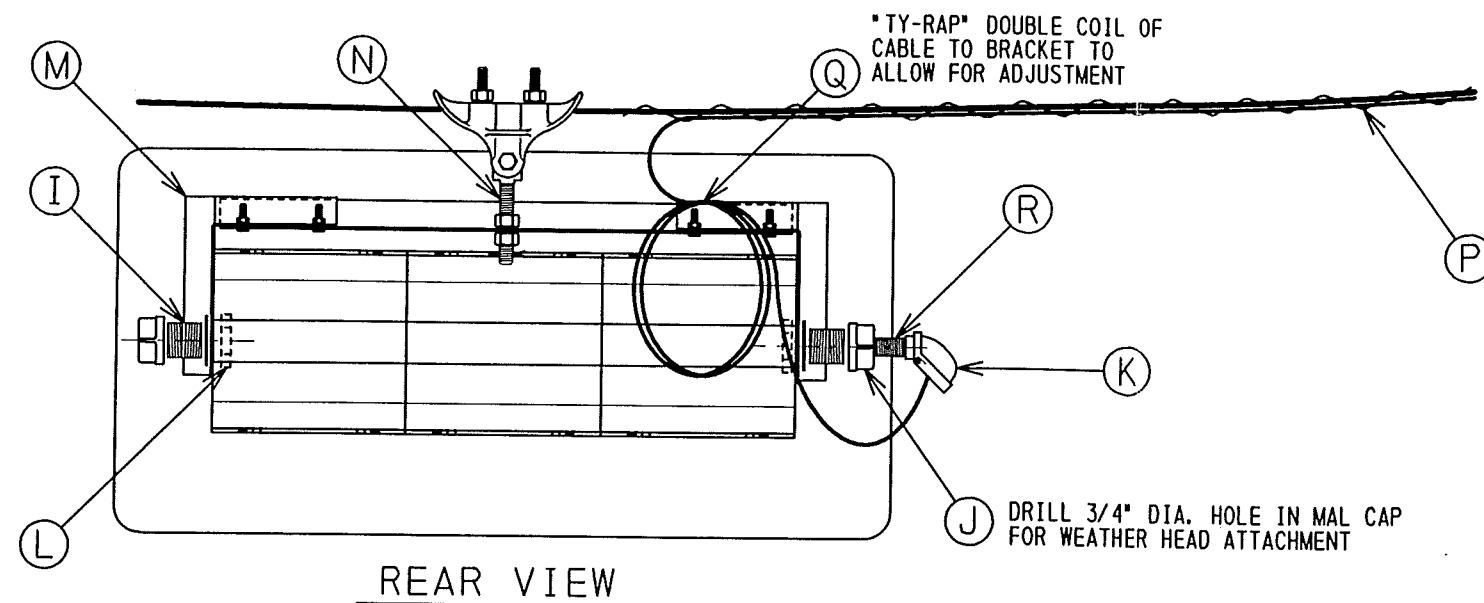


NOTE :

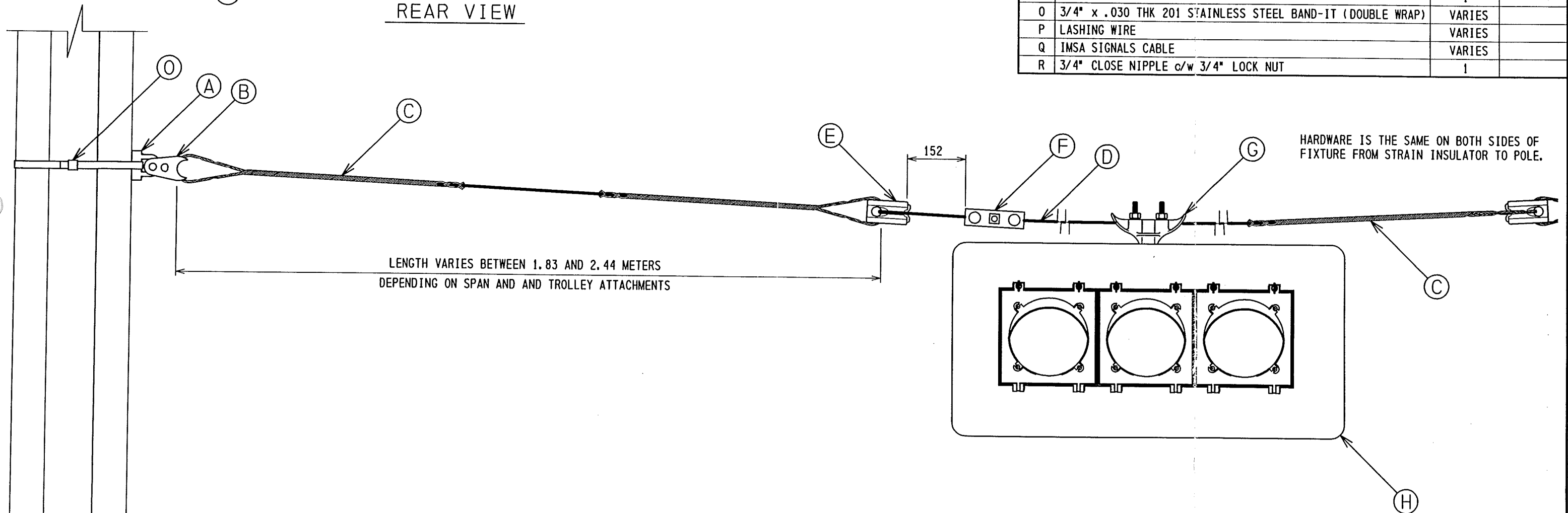
NIPPLE LENGTHS VARY DEPENDING ON POLE ALIGNMENT AND CLEARANCE FROM TRAFFIC.
 STANDARD LENGTHS OF NIPPLE FROM END TO END ARE 6, 7 1/2, 12, 14 AND 32 INCHES
 PIPE THREAD IS 1" AT EACH END.
 LENGTH OF 5/8" BOLT VARIES DEPENDING ON WIDTH OF WOOD POLE

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

WOOD POLE MOUNTED FIXTURES TRAFFIC AND WALK/WAIT LIGHTS			 THE CITY OF Edmonton TRANSPORTATION AND STREETS TRAFFIC OPERATIONS BRANCH	
Scale:	Date Approved:	Approved:	Revision No.	Drawing No.
1 : 10				



HARDWARE REQUIREMENTS			
ITEM	DESCRIPTION	QUANTITY	
A	*D* RING	2	
B	DEAD END CLEVIS	2	
C	5/16" GUY WIRE PREFORM	5	
D	5/16" GUY WIRE	VARIES	
E	502 STRAIN INSULATOR	2	
F	3 BOLT CLAMP	1	
G	GUY WIRE HANGER	1	
H	BACK BOARD (SIZE VARIES WITH NUMBER OF FIXTURES)	1	
I	1 1/2" CLOSE NIPPLE	2	
J	1 1/2" MAL CAP	2	
K	3/4" WEATHERHEAD	1	
L	1 1/2" LOCK NUT c/w FIBER WASHER	2	
M	HANGER BRACKET (SIZE VARIES WITH NUMBER OF FIXTURES)	1	
N	OHBS HANGER BOLT	1	
O	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	VARIES	
P	LASHING WIRE	VARIES	
Q	IMSA SIGNALS CABLE	VARIES	
R	3/4" CLOSE NIPPLE c/w 3/4" LOCK NUT	1	



ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

STANDARD GUYWIRE CONNECTION FOR OVERHEAD FIXTURES

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

Scale:

1 : 10

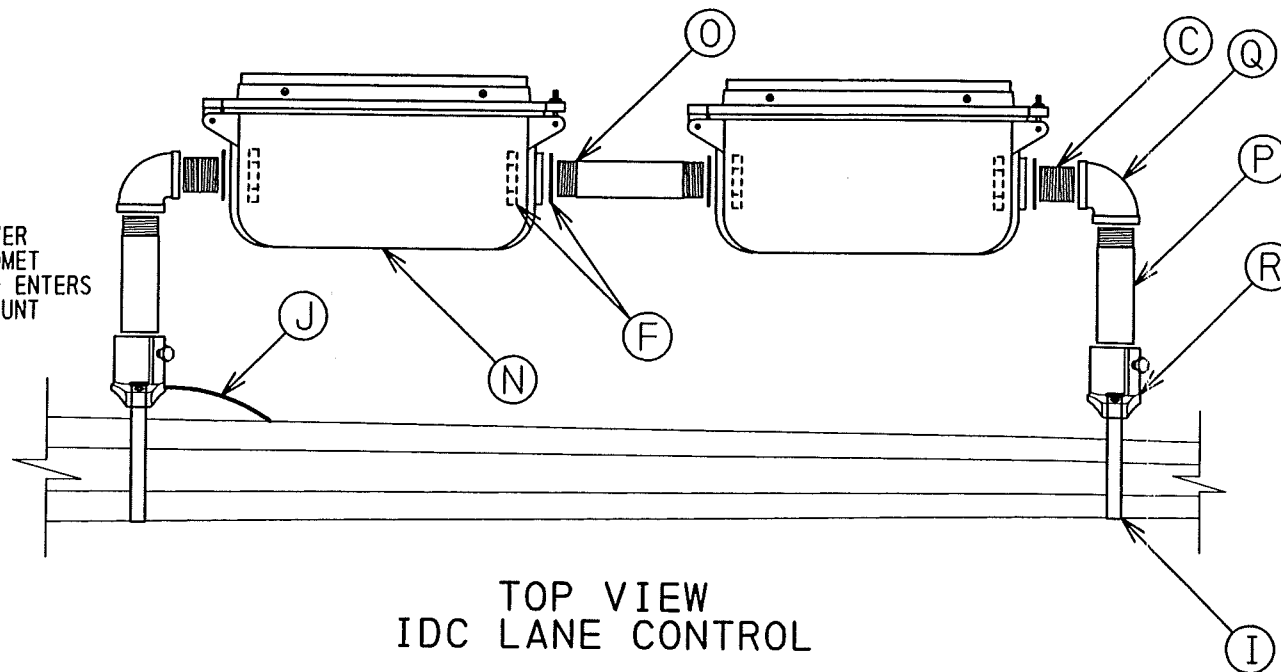
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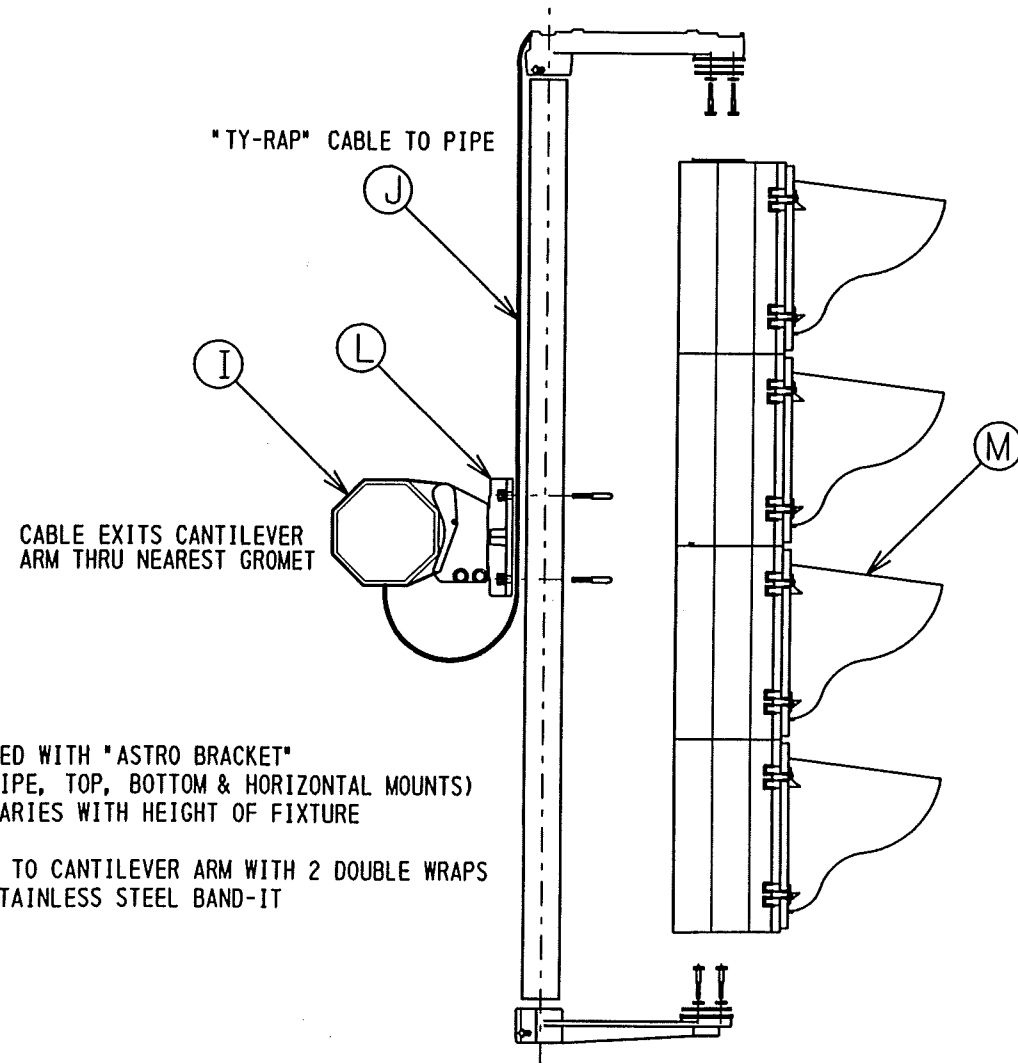
Revision No.

Drawing No.

CABLE EXITS CANTILEVER
ARM THRU NEAREST GROMET
AT BOTTOM OF ARM AND ENTERS
THROUGH UNIVERSAL MOUNT



TOP VIEW
IDC LANE CONTROL



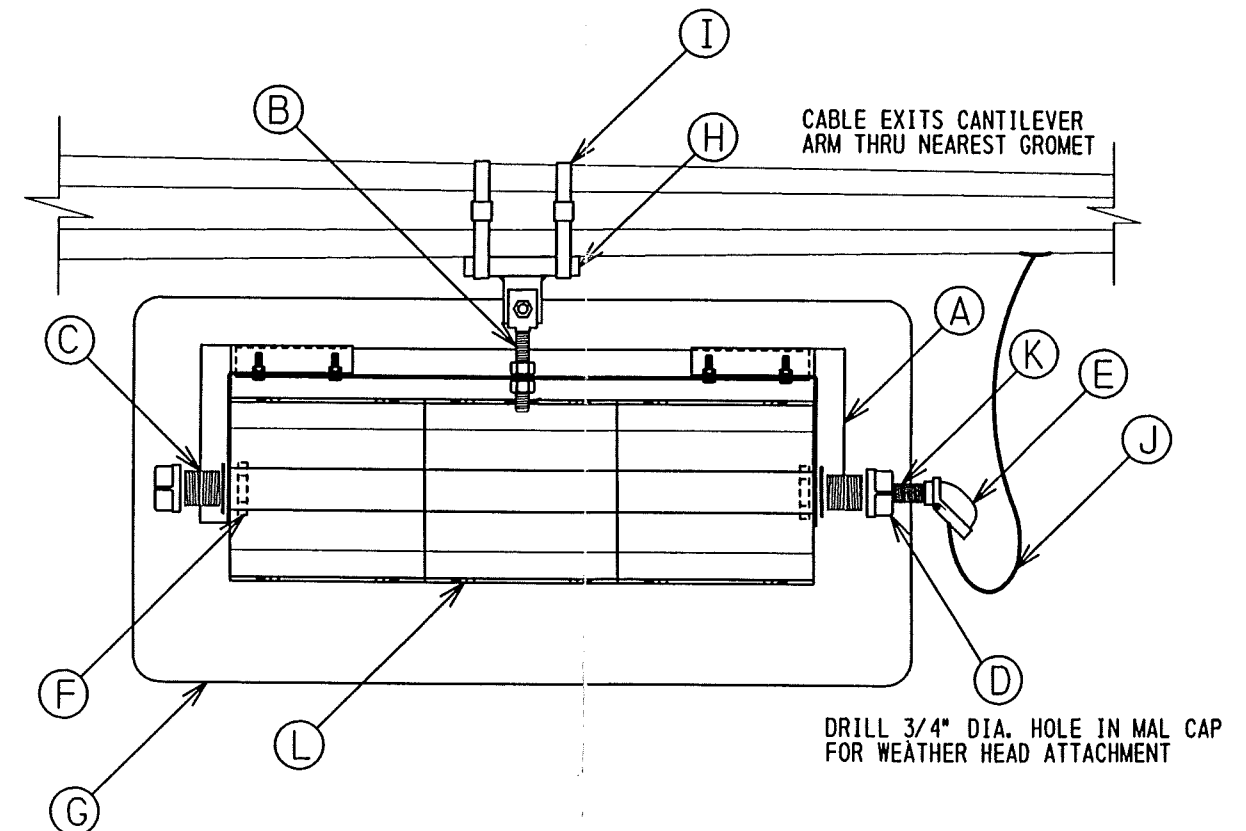
SIDE VIEW
VERTICAL TRAFFIC LIGHTS

NOTE :

- VERTICAL FIXTURES INSTALLED WITH "ASTRO BRACKET" (COMES COMPLETE WITH 2" PIPE, TOP, BOTTOM & HORIZONTAL MOUNTS) LENGTH OF ALUMINUM PIPE VARIES WITH HEIGHT OF FIXTURE
- HORIZONTAL MOUNT FASTENED TO CANTILEVER ARM WITH 2 DOUBLE WRAPS OF 3/4" x .030 THK. 201 STAINLESS STEEL BAND-IT

HARDWARE REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY
A	HANGER BRACKET (SIZE VARIES WITH NUMBER OF FIXTURES)	1
B	OHBS HANGER BOLT	1
C	1 1/2" CLOSE NIPPLE	2
D	1 1/2" MAL CAP	2
E	3/4" WEATHERHEAD	1
F	1 1/2" LOCK NUT c/w FIBRE WASHER	2
G	BACK BOARD (SIZE VARIES WITH NUMBER OF FIXTURES)	1
H	"T" HANGER	1
I	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	2
J	IMSA SIGNALS CABLE	VARIES
K	3/4" CLOSE NIPPLE c/w 3/4" LOCK NUT	1
L	VERTICAL FIXTURE MOUNTING BRACKET (ASTRO BRACKET)	1
M	TRAFFIC LIGHTS AS SPECIFIED	2
N	IDC 18" LANE CONTROL	2
O	1 1/2" x 7 1/2" GALVANIZED RIGID CONDUIT (GRC)	1
P	1 1/2" x 6" GRC	2
Q	1 1/2" RLY - L	2
R	UNIVERSAL POLE MOUNT	2



REAR VIEW
HORIZONTAL TRAFFIC LIGHTS

CANTILEVER MOUNTED
HORIZONTAL & VERTICAL FIXTURES

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

Scale:

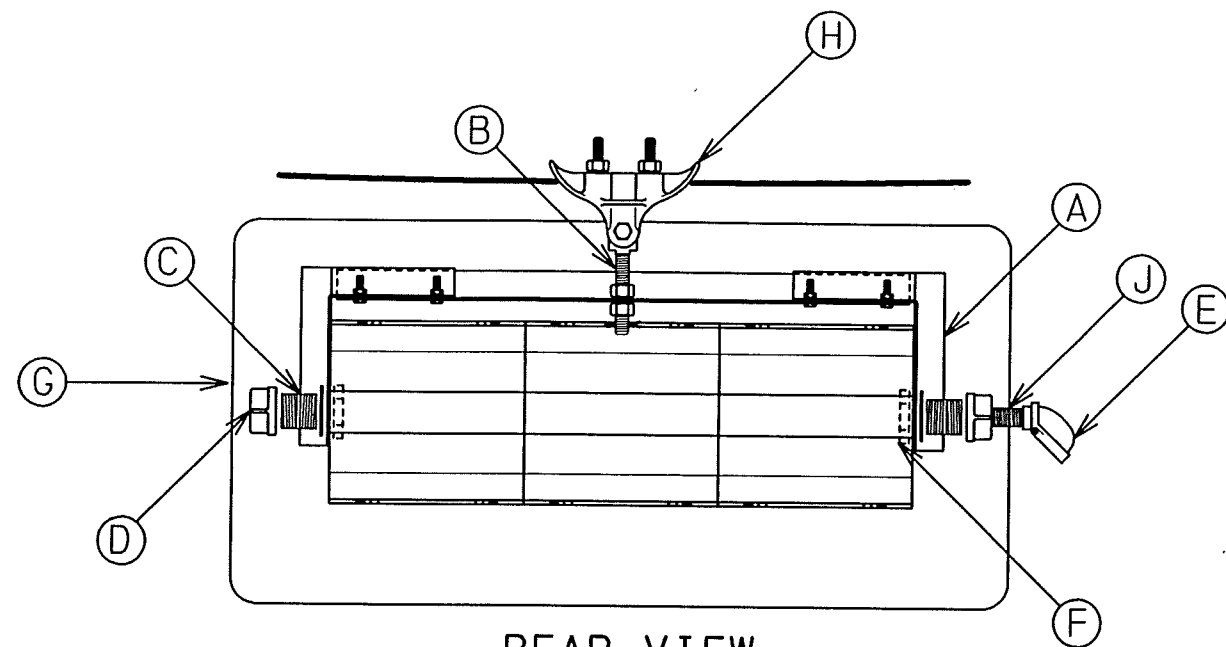
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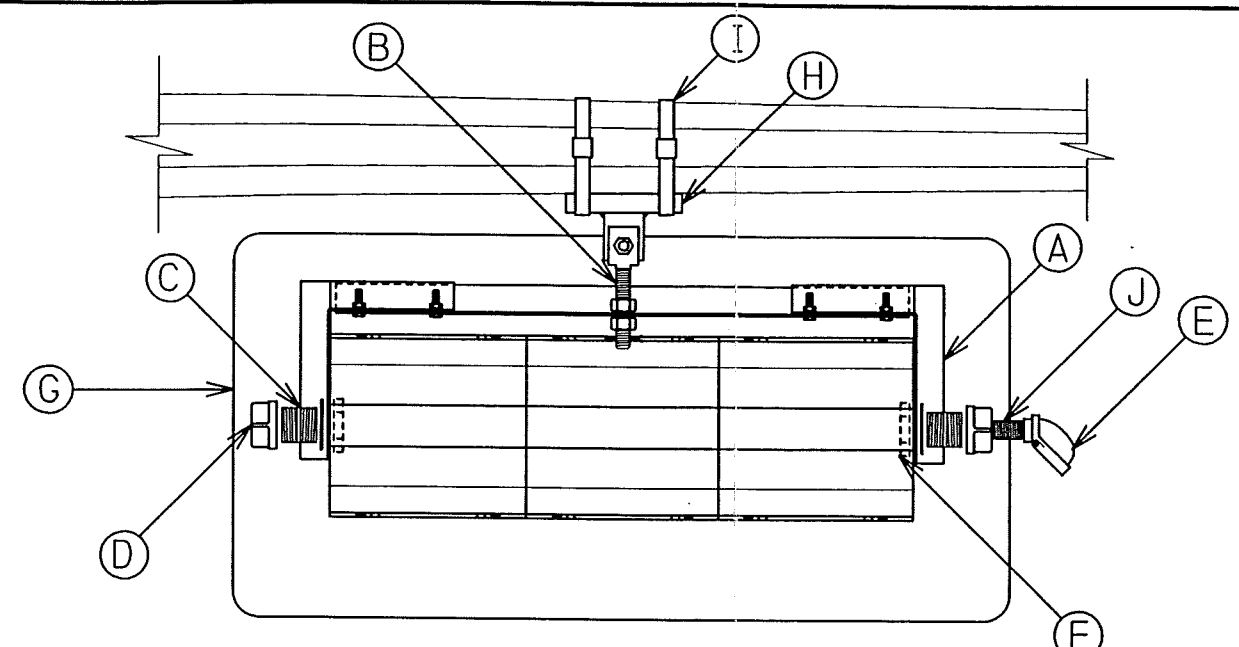
Revision No.

Drawing No.



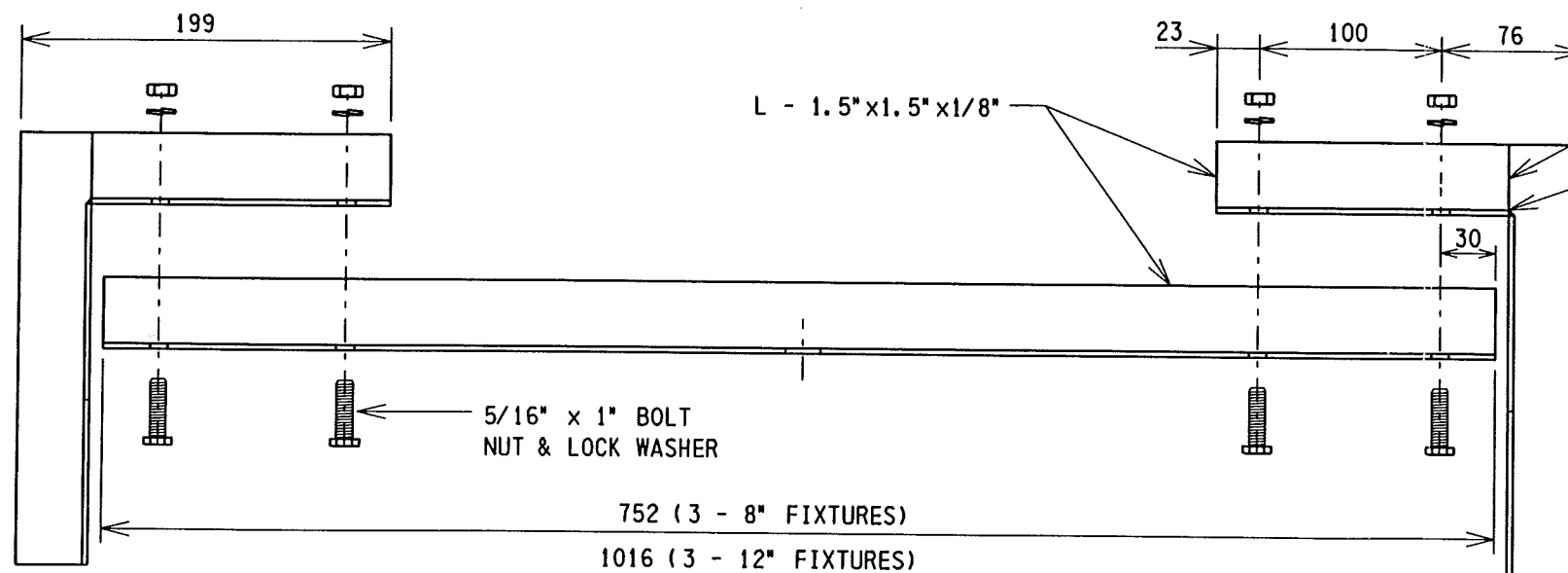
REAR VIEW
GUY WIRE ATTACHMENT

1 : 10

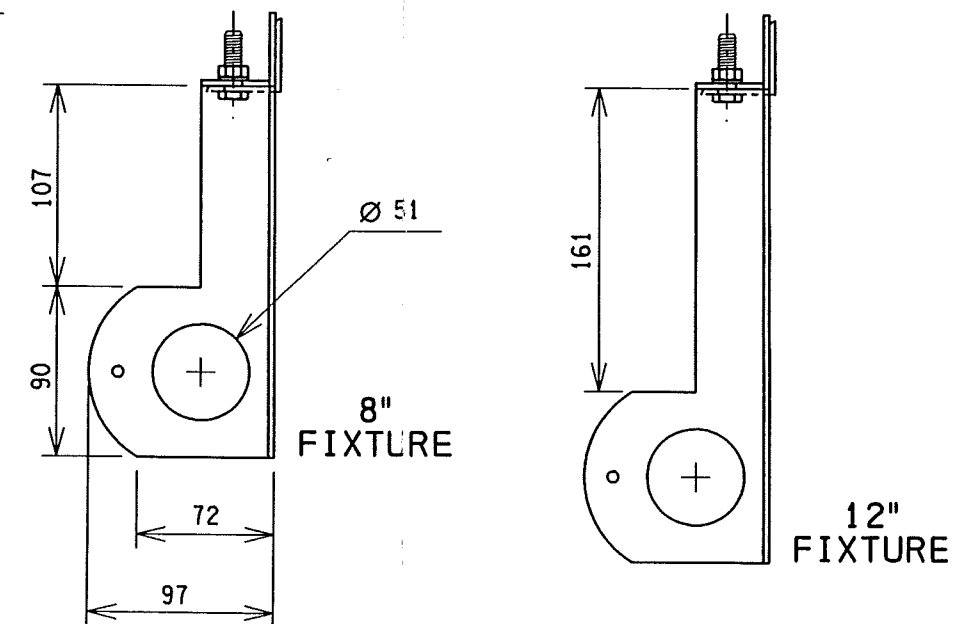


REAR VIEW
CANTILEVER ATTACHMENT

1 : 10



FRONT VIEW



SIDE VIEW (ASSEMBLED)

HEIGHT OF BRACKET VARIES
BETWEEN 8" AND 12" FIXTURES

HARDWARE REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY
A	HANGER BRACKET (SIZE VARIES WITH NUMBER OF FIXTURES)	1
B	OHBS HANGER BOLT	1
C	1 1/2" CLOSE NIPPLE	2
D	1 1/2" MAL CAP	2
E	3/4" WEATHERHEAD	1
F	1 1/2" LOCK NUT c/w FIBRE WASHER	2
G	BACK BOARD (SIZE VARIES WITH NUMBER OF FIXTURES)	1
H	GUY WIRE HANGER (O/H) OR "T" HANGER (CANTILEVER)	1
I	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	2
J	3/4" CLOSE NIPPLE c/w 3/4" LOCK NUT	1

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

BRACKET FOR 3 LIGHT OVERHEAD FIXTURES

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

Scale:

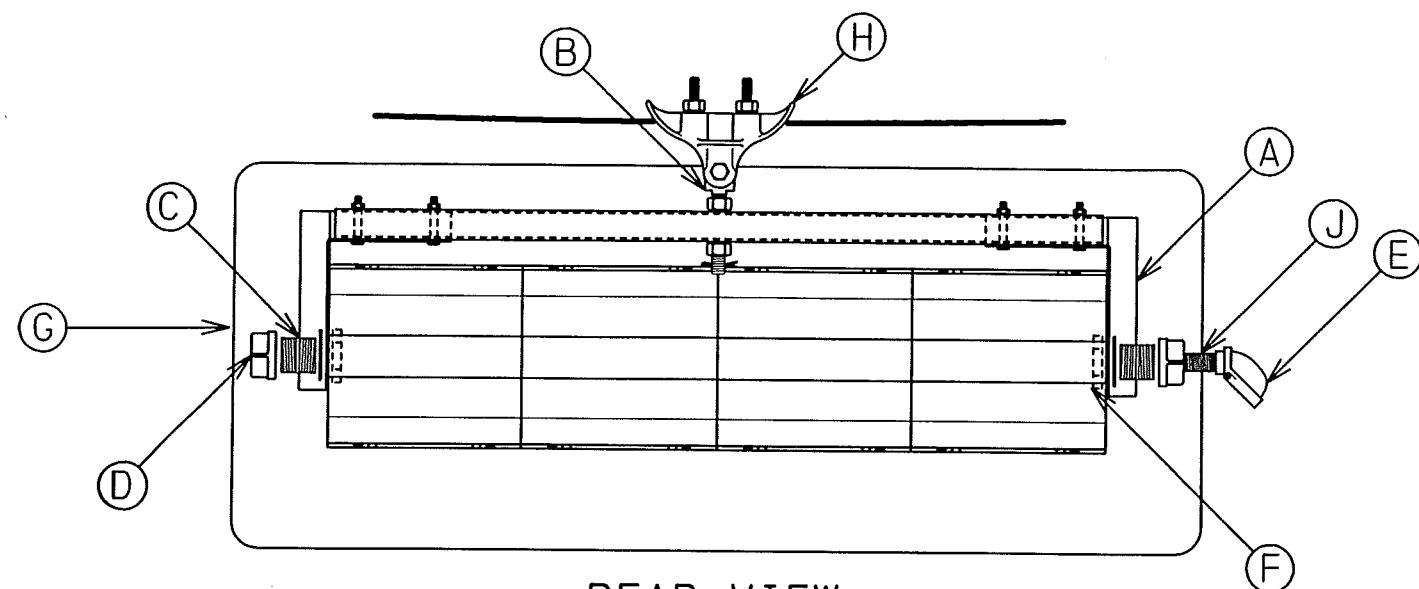
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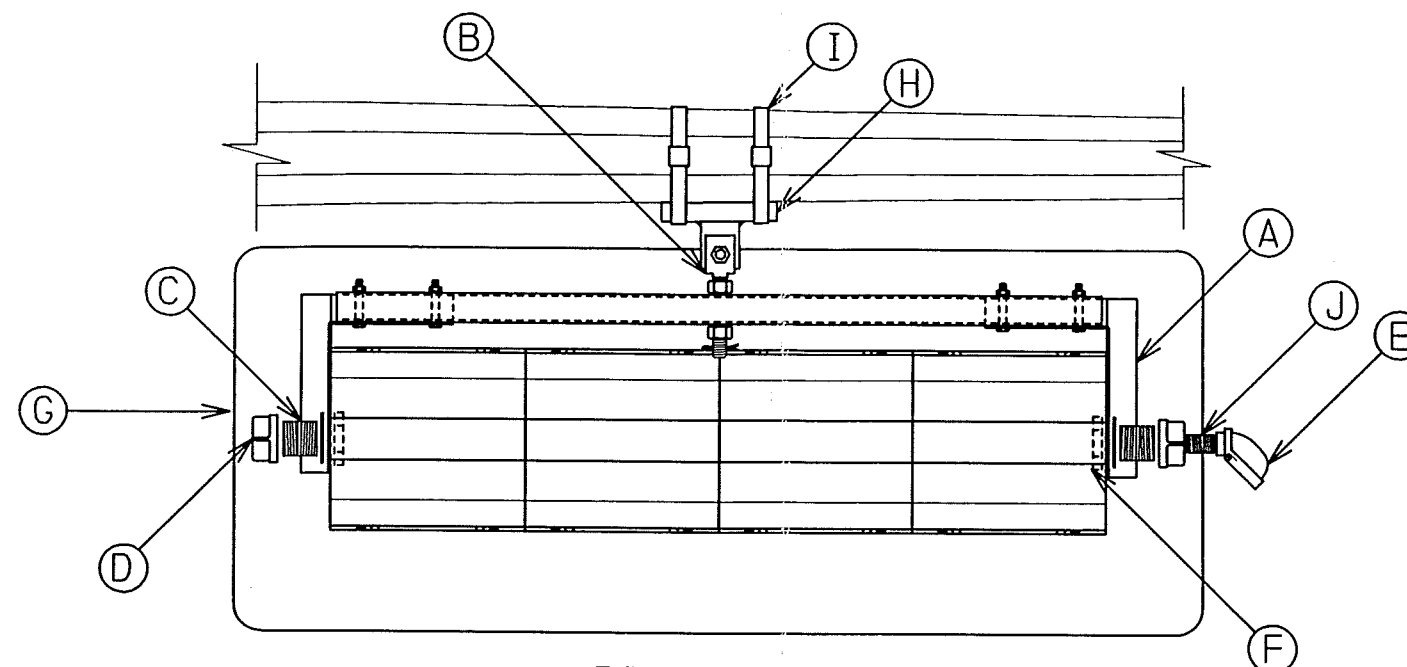
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Drawing No.



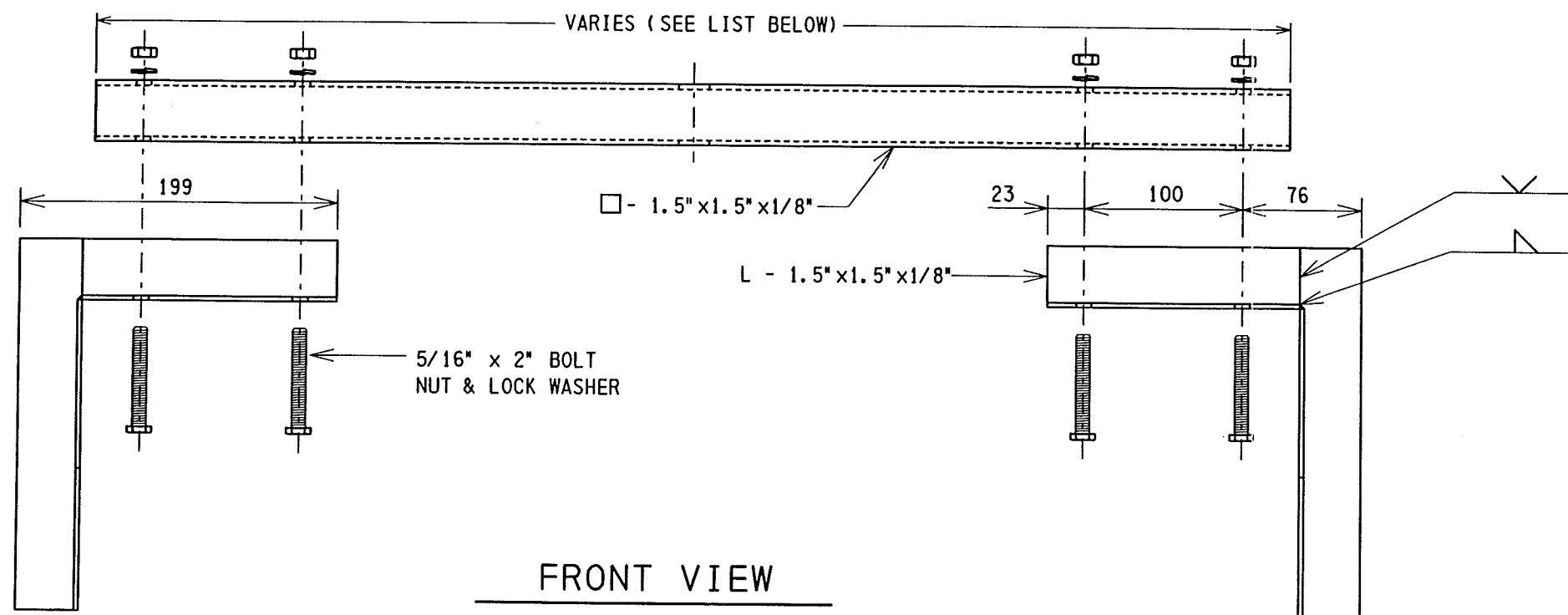
REAR VIEW
GUY WIRE ATTACHMENT

1 : 10

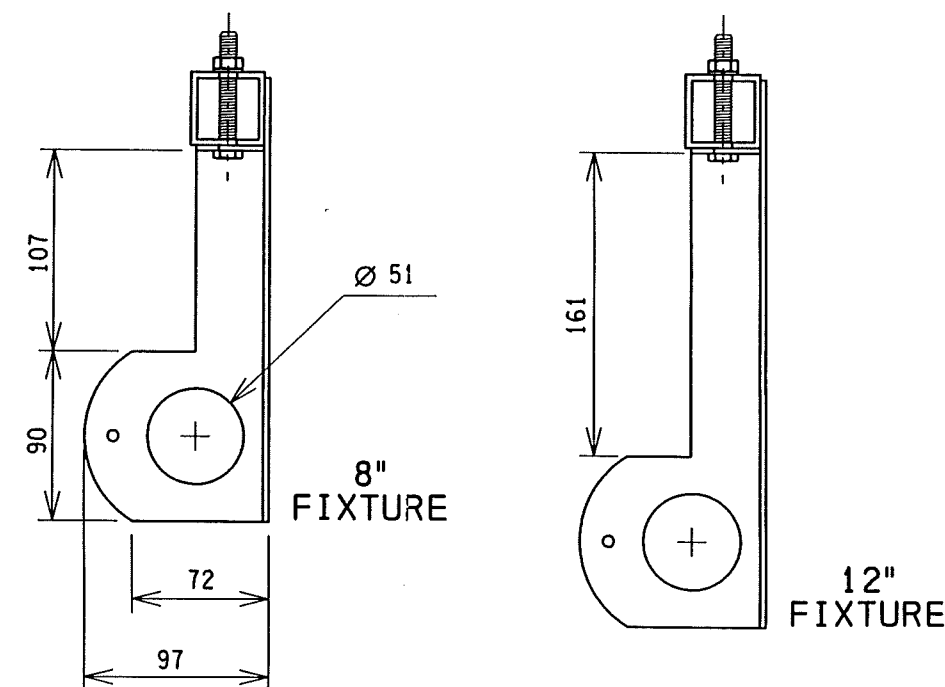


REAR VIEW
CANTILEVER ATTACHMENT

1 : 10



FRONT VIEW



SIDE VIEW (ASSEMBLED)

HEIGHT OF BRACKET VARIES
BETWEEN 8" AND 12" FIXTURES

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

HARDWARE REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY
A	HANGER BRACKET (SIZE VARIES WITH NUMBER OF FIXTURES)	1
B	OHBS HANGER BOLT	1
C	1 1/2" CLOSE NIPPLE	2
D	1 1/2" MAL CAP	2
F	3/4" WEATHERHEAD	1
F	1 1/2" LOCK NUT c/w FIBRE WASHER	2
G	BACK BOARD (SIZE VARIES WITH NUMBER OF FIXTURES)	1
H	GUY WIRE HANGER (O/H) OR "T" HANGER (CANTILEVER)	1
I	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	2
J	3/4" CLOSE NIPPLE c/w 3/4" LOCK NUT	1

LENGTH OF SQUARE TUBING

4 - 8" LIGHTS	= 1006
5 - 8" LIGHTS	= 1262
4 - 12" LIGHTS	= 1368
5 - 12" LIGHTS	= 1756

BRACKET FOR
4 & 5 LIGHT OVERHEAD FIXTURES

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

Scale:

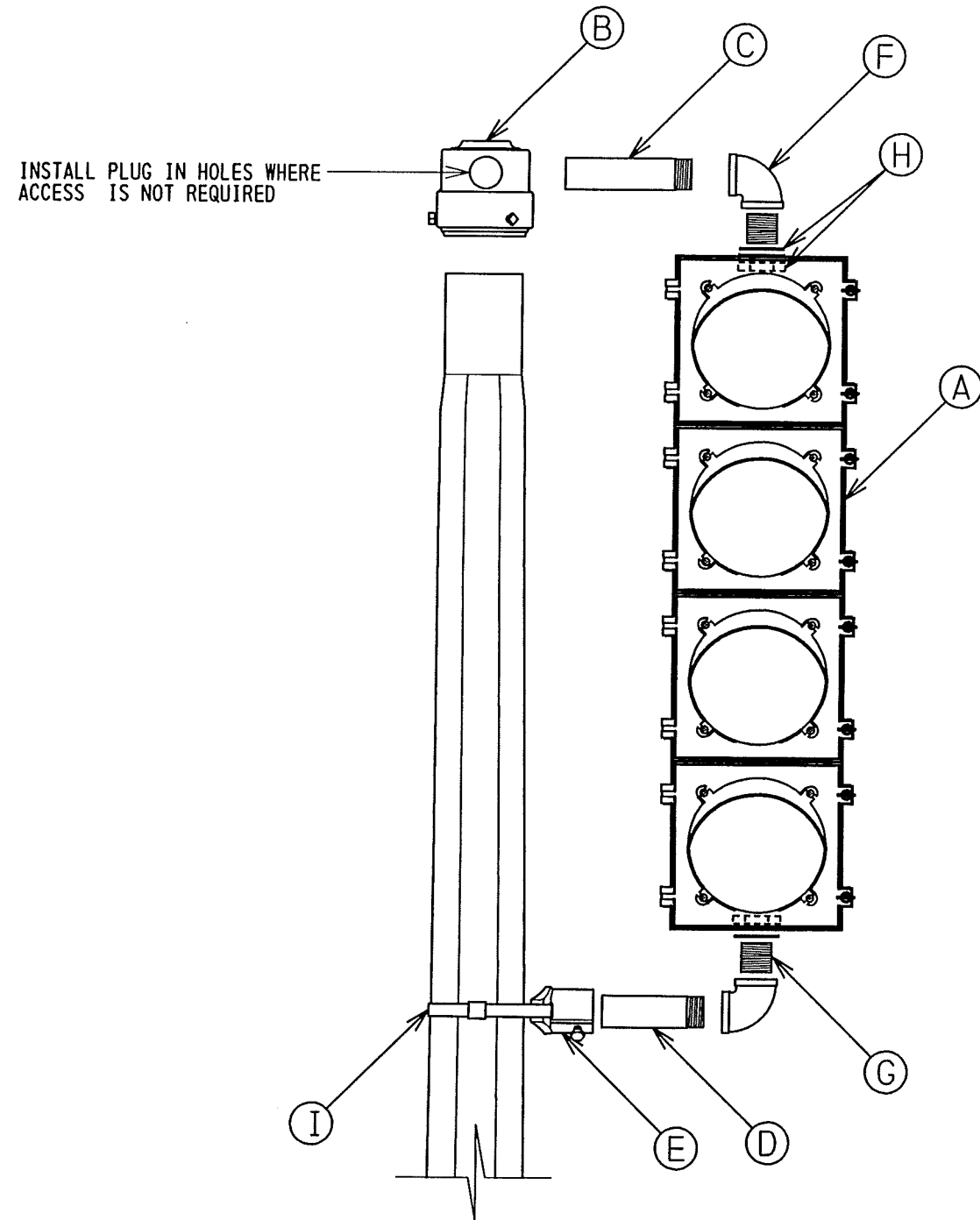
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Date Approved:

Approved

Revision No.

Drawing No.



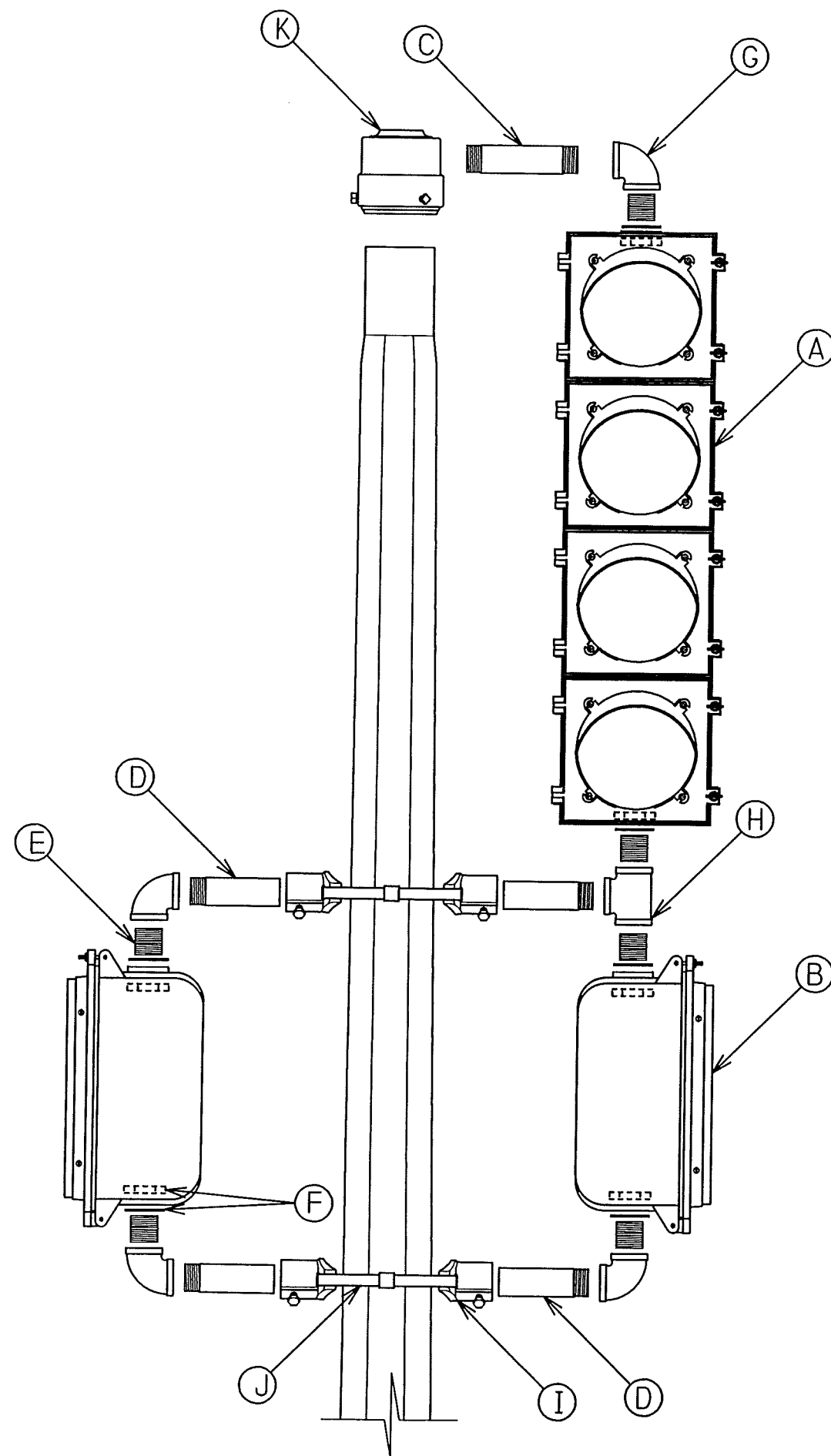
HARDWARE REQUIREMENTS			
ITEM	DESCRIPTION	QUANTITY	
A	TRAFFIC LITE AS SPECIFIED	1	
B	PEDESTAL CAP	1	
C	1 1/2" x 7 1/2" GALVANIZED RIGID CONDUIT (GRC)	1	
D	1 1/2" x 6" GRC	1	
E	UNIVERSAL POLE MOUNT	1	
F	1 1/2" RLY - L	2	
G	1 1/2" CLOSE NIPPLE	2	
H	1 1/2" LOCK NUT c/w FIBRE WASHER	2	
I	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	1	

NOTE :

NIPPLE LENGTHS VARY DEPENDING ON POLE ALIGNMENT AND CLEARANCE FROM TRAFFIC.
 STANDARD LENGTHS OF NIPPLE FROM END TO END ARE 6, 7 1/2, 12, 14 AND 32 INCHES
 PIPE THREAD IS 1" AT EACH END

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

STANDARD PEDESTAL MOUNT FIXTURE			 THE CITY OF Edmonton TRANSPORTATION AND STREETS TRAFFIC OPERATIONS BRANCH	
Scale:	Date Approved:	Approved	Revision No.	Drawing No.
1 : 10				



HARDWARE REQUIREMENTS			
ITEM	DESCRIPTION	QUANTITY	
A	TRAFFIC LITE AS SPECIFIED	1	
B	IDC 18" WALK / WAIT LITE	2	
C	1 1/2" x 7 1/2" GALVANIZED RIGID CONDUIT (GRC)	1	
D	1 1/2" x 6" GRC	4	
E	1 1/2" CLOSE NIPPLE	6	
F	1 1/2" LOCK NUT c/w FIBRE WASHER	6	
G	1 1/2" RLY - L	4	
H	1 1/2" RLY - T	1	
I	UNIVERSAL POLE MOUNT	4	
J	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	1	
K	PEDESTAL CAP	1	

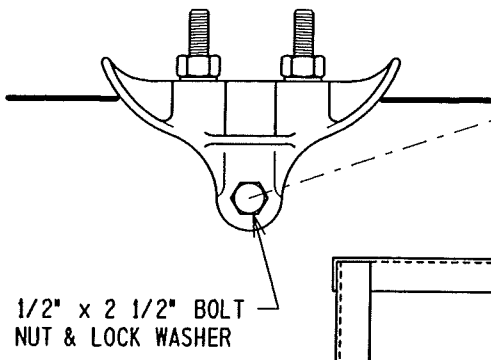
NOTE :

NIPPLE LENGTHS VARY DEPENDING ON POLE ALIGNMENT AND CLEARANCE FROM TRAFFIC.
STANDARD LENGTHS OF NIPPLE FROM END TO END ARE 6, 7 1/2, 12, 14 AND 32 INCHES
PIPE THREAD IS 1" AT EACH END

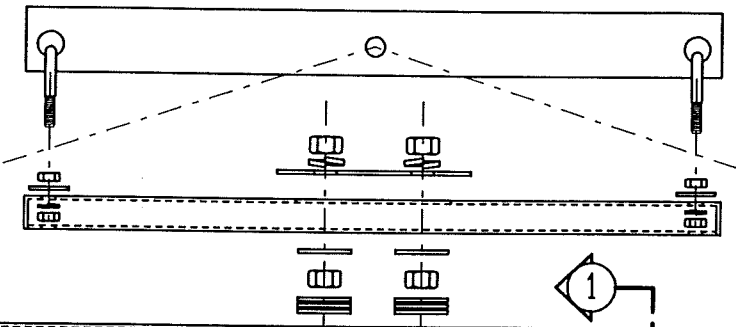
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

PEDESTAL MOUNT FIXTURES TRAFFIC AND WALK/WAIT LIGHTS			 TRANSPORTATION AND STREETS TRAFFIC OPERATIONS BRANCH	
Scale:	Date Approved:	Approved:	Revision No.	Drawing No.
1 : 10				

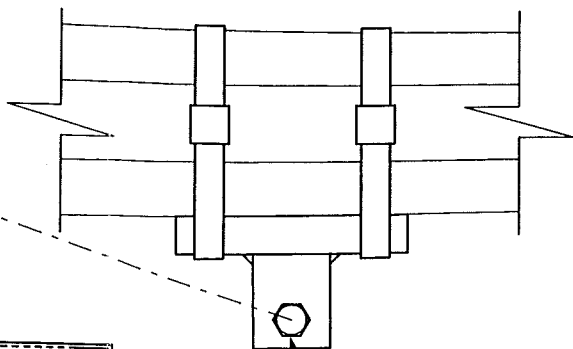
OVERHEAD ATTACHMENT USING GUY WIRE HANGER



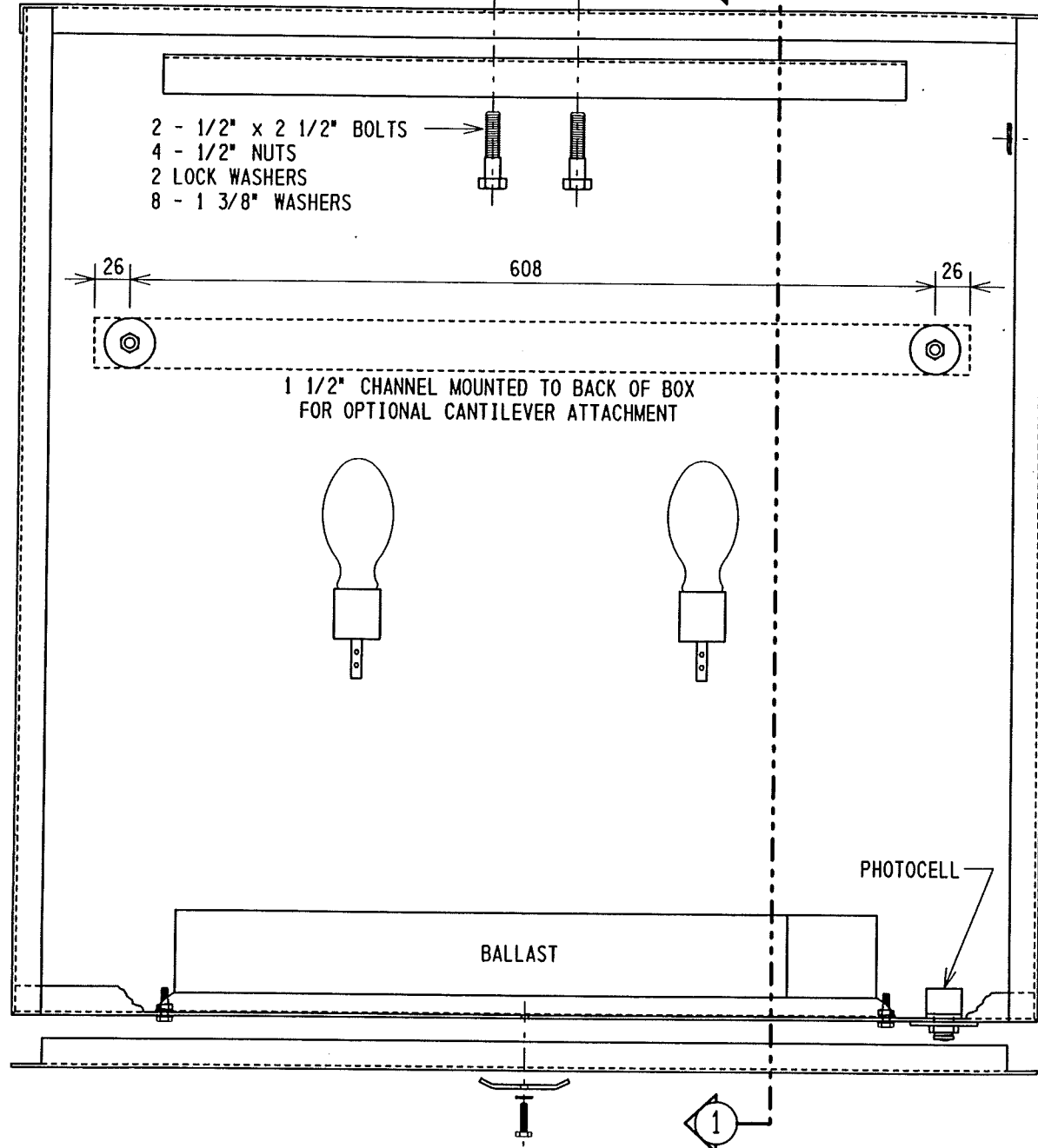
TOP MOUNTING ASSEMBLY C/W SIGN BOX FROM MANUFACTURER



CANTILEVER ATTACHMENT USING "T" HANGER



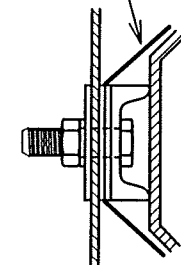
NOTE:
FOR BOTH CANTILEVER ATTACHMENTS
2 DOUBLE WRAPS OF 3/4" x .030 THK
201 STAINLESS STEEL BAND-IT REQ'D.



FRONT VIEW

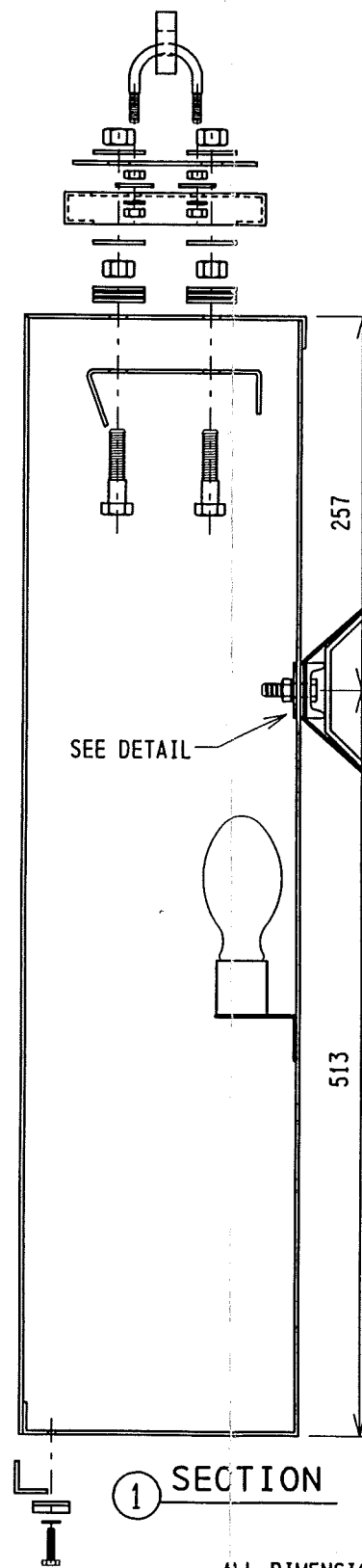
3/4" WEATHERHEAD
3/4" CLOSE NIPPLE
2 MALABLE LOCK NUTS

BAND-IT PASSES THRU GAP
CREATED BY WASHERS
BETWEEN CHANNEL AND BOX



DETAIL

3/8" x 1" BOLT
3/8" NUT & LOCK WASHER
3 - 1 1/2" WASHERS
1 1/2" x 660 CHANNEL



ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

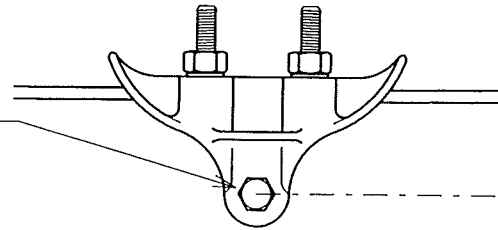
OVERHEAD ATTACHMENT OF ILLUMINATED SIGN BOX

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

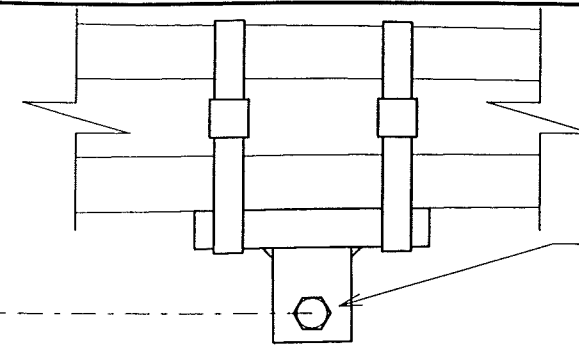
Scale: 1 : 5	Date Approved:	Approved:	Revision No.	Drawing No.
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OVERHEAD ATTACHMENT USING GUY WIRE HANGER

1/2" x 2 1/2" BOLT
NUT & LOCK WASHER



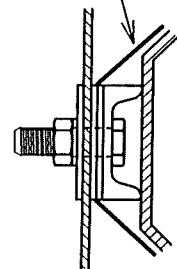
3/4" x 6 1/4" HANGER BOLT
2 - 3/4" NUTS, LOCK WASHER
AND COTTER PIN



1/2" x 2 1/2" BOLT
NUT & LOCK WASHER

CANTILEVER ATTACHMENT USING "I" HANGER

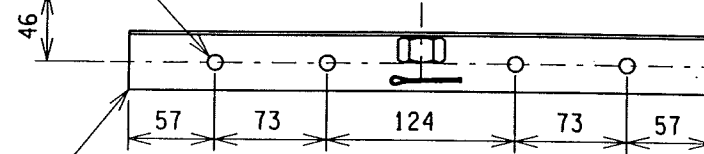
BAND-IT PASSES THRU GAP
CREATED BY WASHERS
BETWEEN CHANNEL AND SIGN



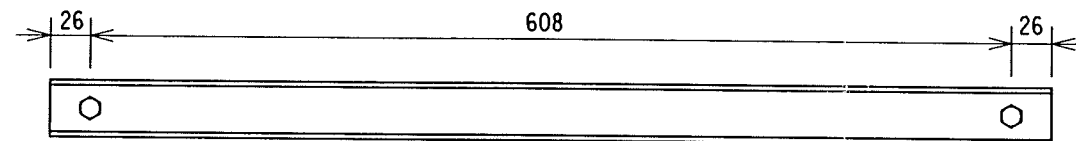
DETAIL

3/8" x 1" BOLT
3/8" NUT & LOCK WASHER
3 - 1 1/2" WASHERS

10 Ø
TYP.



L - 1.5" x 1.5" x 1/8" x 384 LG.



C - 1.5" x 1/8" x 660 LG.

750 x 750
V. I. P.
ALUMINUM SIGN

3/8" x 1 1/2" BOLT
3/8" NUT & LOCK WASHER

257

SEE DETAIL

493

OPTIONAL
CANTILEVER
ATTACHMENT

NOTE:
FOR BOTH CANTILEVER ATTACHMENTS
2 DOUBLE WRAPS OF 3/4" x .030 THK
201 STAINLESS STEEL BAND-IT REQ'D.

BACK VIEW

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

OVERHEAD V. I. P.
ALUMINUM SIGN

THE CITY OF
Edmonton TRANSPORTATION
AND STREETS
TRAFFIC OPERATIONS BRANCH

Scale:

1 : 5

Date Approved:

Approved

Revision No.

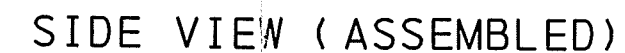
Drawing No.



1 : 10



1 : 10



HEIGHT OF BRACKET VARIES
BETWEEN 8" AND 12" FIXTURES

HARDWARE REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY	
A	HANGER BRACKET (SIZE VARIES WITH NUMBER OF FIXTURES)	1	
B	OHBS HANGER BOLT	1	
C	1 1/2" CLOSE NIPPLE	2	
D	1 1/2" MAL CAP	2	
E	3/4" WEATHERHEAD	1	
F	1 1/2" LOCK NUT c/w FIBRE WASHER	2	
G	BACK BOARD (SIZE VARIES WITH NUMBER OF FIXTURES)	1	
H	GUY WIRE HANGER (O/H) OR "T" HANGER (CANTILEVER)	1	
I	3/4" x .030 THK 201 STAINLESS STEEL BAND-IT (DOUBLE WRAP)	2	
J	3/4" CLOSE NIPPLE c/w 3/4" LOCK NUT	1	

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

BRACKET FOR
3 LIGHT OVERHEAD FIXTURES



Scale:

1 : 4

Date Approved:

Approved

Revision No.

Drawing No.