PREFERRED METHOD 2-WAY T.S./CASE SIGN COMBINATION BELOW HUB

1 1/2" close nipple
12"x27" case sign
Yoke with 6" nipple, nut,
1-Way, 3-section 12" T.S.
24"x30" case sign with aluminum blank & two 1 1/2 " hubs

(ALTERNATE) 2-WAY T.S./CASE SIGN COMBINATION ABOVE HUB

Balance adjuster (if needed)
Entrance fitting
2-Way, 12" span wire
t.s. top bracket
1 1/2" close nipple
24"x30" case sign with aluminum blank & two 1 1/2 " hubs
1 1/2" pipe nipple (length as needed)
2-Way, 12" span wire
t.s. pipe bottom bracket

1-WAY T.S./CASE SIGN COMBINATION ABOVE HUB

Use short entrance fitting with close nipple.
1 1/2" blank aluminum insert in backside of hub
Install weatherproof gasket under plate
12"x27" case sign
Yoke with 6" nipple, nut.
1-Way, 3-section 12" T.S.
24"x30" case sign with aluminum blank & two 1 1/2 " hubs

NOT TO SCALE
1-WAY T.S./CASE SIGN COMBINATION BELOW HUB

Balance adjuster (if needed)
2-Way, 12" span wire T.S. top bracket
1 1/2" pipe (length as needed)
24"x30" case sign with aluminum block & two 1 1/2" hubs
1 1/2" pipe nipple (length as needed)
2-Way, 12" span wire T.S. pipe bottom bracket

1-WAY (ALUMINUM) & 1-WAY T.S./CASE SIGN COMBINATION ABOVE HUB

Balance adjuster (if needed)
Entrance fitting
2-Way, 12" span wire T.S. top bracket
1 1/2" pipe (length as needed)
1-Way, 3-section, 12" T.S. (aluminum) See Aluminum Head Notes
2-Way, 12" span wire T.S. pipe bottom bracket

1-WAY (ALUMINUM) & 1-WAY T.S./CASE SIGN COMBINATION BELOW HUB

Balance adjuster (if needed)
Entrance fitting
2-Way, 12" span wire T.S. top bracket
1 1/2" pipe (length as needed)
1-Way, 3-section, 12" T.S. (aluminum) See Aluminum Head Notes
2-Way, 12" span wire T.S. pipe bottom bracket

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN
(SPECIAL DETAIL)
FHWA APPROVAL DATE

SIG-311-A

Plan Date

Sheet 2 of 5
SPAN WIRE MOUNTED T.S. BRACKET ASSEMBLY
WITH 4-WAY CASE SIGN COMBINATION BELOW HUB

NOTES for all details:
1) All pipe sizes include thread.
2) Install pinnacles in all unused openings in hubs, crosses & tees.
3) 4-Way case sign legend to be as shown on plans.
4) Denotes 1/4" stainless steel set screw (typical).
5) Apply silicon sealant to the fittings on the top of case signs, and the top and bottom connections of signal heads.
1/8" Thick Stainless Steel Plates

1/4-20 x 2" Stainless Steel Carriage Bolt with nut and serrated washer (3 required)

0.234" (7/30") square holes typical (3 required)

0.234" (7/30") radius lobes typical

1.8756" (1 7/8") diameter Plate

J/8" Thick Steel Plate

SIGNAL JOINER

NOT TO SCALE