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NOTES:

1.

LOOPS TO BE INSTALLED PER METTLER TOLEDO DRAWING KC583,388 [905773R].

2.

THE 2”CONDUIT FROM THE SENSORS TO THE SCALE INTERFACE ENCLOSURE SHOULD BE RUN AS STRAIGHT AS POSSIBLE TO KEEP THE SENSOR CABLES SHORT AND TO ACCOMODATE FUTURE REPLACEMENT OF A SENSOR.

3.

CONDUIT ROUTINGS SHOWN ON THIS DRAWING ARE SUGGESTED ONLY.

4.

BEST ACCURACY AND REPEATABILITY RESULTS ARE ACHIEVED WITH CONCRETE ROADWAY.

5.

IF THE JOB SPECIFICATION REQUIRES A MINIMUM CONDUIT SIZE THAT IS LARGER THAN MINIMUM SIZE SHOWN ON THIS DRAWING THEN THE JOB SPECIFICATION MINIMUM SHALL APPLY.

6.

THE ACCURACY OF A WIM SCALE IS GREATLY AFFECTED BY THE APPROACH TO THE SCALE. ANY VERTICAL MOVEMENT (BOUNCING) OF THE VEHICLE AS IT CROSSSES THE WIM SCALES WILL DEGRADE THE ACCURACY OF THE SCALE. FOR THIS REASON IT IS CRITICAL THAT THE APPROACH BE AS SMOOTH AS POSSIBLE, AND IN ACCORDANCE WITH ASTM SPECIFICATIONS E1318–94.  
  
THE IDEAL WIM INSTALLATION IS ON STRAIGHT ROADWAY THAT IS LEVEL. THE APPROACH AND EXIT ARE CONCRETE AND ARE SMOOTH FOR A DISTANCE OF 200 FEET [60 METERS] IN FRONT OF THE SCALE AND 100 FEET [30 METERS] AFTER THE SCALE.  
  
THE WIM SCALES CAN BE PLACED ON A GRADE BUT THE GRADE SHOULD BE CONSTANT (AVOID VERTICAL CURVES AS THESE ARE DIFFICULT TO MAKE SMOOTH). WIM SCALES SHOULD NOT BE PLACED ON A HORIZONTAL CURVE BECAUSE VEHICLES WILL TEND TO MISS THE SCALE WITH ONE OR MORE AXLES.  
  
THE GRADE FROM SIDE TO SIDE (PERPENDICULAR TO THE DIRECTION OF TRAVEL) MUST BE UNIFORM FOR THE FULL WIDTH OF THE LANE AND MUST BE CONSISTENT FOR THE APPROACH AND EXIT SECTIONS.

NOTES:

1.

LOOP IS 6’x6’, CENTERED IN LANE.

2.

SENSOR WIDTH IS SELECTED BASED ON LANE WIDTH TO COVER AS MUCH OF LANE AS POSSIBLE.

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Drawing No. K-19-000000

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NAME WIM LANE DIMENSIONAL LAYOUTKISTLER SENSORSDSN ROWLANDSDSN ROWLANDSAPPD19-APR-12SCALE1:1PROG. NO./SPEC. NO.SUPERSEDED BYSUPERSEDED BYENG. RELEASE NO.1 OF 1 SHEET64089849

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Diagram showing Loop dimensions and sensor placement:

- Total width: 12.00
- Sensor width: 5.74 [1.75M]
- Loop size: 6.00 x 6.00
- Approach distance: 3.00
- Exit distance: 3.00
- Conduit length from sensors to interface enclosure: 2"

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