

NOTES:

1. PORTLAND CEMENT CONCRETE (PCC) FOR CAST-IN-PLACE CATCH BASIN AND 4'x4' CONCRETE PAD SHALL BE A MINIMUM 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS WITH MINIMUM 6.25 SACKS OF TYPE II CEMENT (588 LBS) PER CUBIC YARD OF CONCRETE, A MAXIMUM WATER/CEMENT RATIO OF 0.45, 4.5-7.5% AIR ENTRAINMENT, AND SLUMP SHALL RANGE FROM A MINIMUM OF 1" TO A MAXIMUM OF 4".
2. REINFORCING SHALL CONSIST OF COLLATED, FIBRILLATED, POLYPROPYLENE FIBERS AS MANUFACTURED BY FIBERMESH, OR APPROVED EQUAL, AND SHALL BE ADDED AT A RATE OF 1.5 LBS PER CUBIC YARD OF CONCRETE.
3. CONCRETE STRUCTURE MAY BE A PRE-CAST CONCRETE UNIT UPON APPROVAL OF THE WASHOE COUNTY ENGINEER.
4. FRAME AND GRATE SHALL BE D&L FOUNDRY 2436-4R-L (VANE GRATE), NEENAH R3067-L (VANE GRATE), OR APPROVED EQUAL.
5. 8" THICK CONCRETE PAD SHALL BE CONSTRUCTED AS SHOWN WHEN NOT LOCATED IN SIDEWALK. 6" OF TYPE 2 CLASS B AGGREGATE BASE SHALL BE PLACED AND COMPACTED BENEATH 4'x4' PAD TO 90% RELATIVE COMPACTION. EXTEND CONCRETE TO TOP OF BOX.
6. TYPE 4R CATCH BASINS SHALL BE USED ON ALL GRADES IN ALL SUMP LOCATIONS WITHIN ROADWAY SECTION.
7. OUTLET PIPE SHALL BE MINIMUM 12" DIAMETER RCP, PVC OR HDPE.
8. IN AREAS OF FINE GRAINED OR EXPANSIVE SOILS, CLASS C BACKFILL DEPTH BELOW THE BOTTOM OF THE BOX SHALL BE 24 INCHES.
9. CATCH BASIN OUTLET PIPE SHALL BE BEDDED IN CLASS C BACKFILL.

DATE	REVISIONS		STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION CATCH BASIN TYPE 4R NOTES	SECTION NUMBER:
				200
				DRAWING NUMBER:
				W-212B
				DATE:
				2/21/2022