

GENERAL NOTES:

1. JUNCTION STRUCTURE TYPE "E" SHALL BE USED ONLY WHEN SUFFICIENT MEANS OF ACCESS IS AVAILABLE FOR STORM DRAIN MAINTENANCE.
2. JUNCTION STRUCTURE TYPE "E" IS TO BE USED WHEN O.D. OF 'B' IS GREATER THAN 1/2 THE I.D. AT 'D' OR 'B' IS LARGER THAN 24". 'B' SHALL NOT EXCEED 3/4 OF 'D' OR 39". WHERE 'B' IS LESS THAN 24", USE J.S. TYPE "E" OR J.S. TYPE "C". WHERE 'B' EXCEEDS 3/4 'D' OR 39", USE JUNCTION STRUCTURE TYPE "B" WITHOUT MANHOLE.
3. VALUES OF 'A', 'B', 'C', AND 'D' ARE SHOWN ON PROJECT DRAWINGS. ELEVATION 'R' AND ELEVATION 'S' ARE SHOWN WHEN REQUIRED PER NOTE 12.
4. ELEVATION 'S' APPLIES AT INSIDE WALL OF STRUCTURE.
5. BREAKOUT LIMITS SHALL BE DETERMINED AS FOLLOWS:
UPSTREAM LIMIT - THE INTERSECTION OF THE OUTSIDE OF THE SPUR WALL WITH THE MAIN LINE PIPE WALL.
DOWNSTREAM LIMIT - 6" DOWNSTREAM OF THE INTERSECTION OF THE OUTSIDE OF THE SPUR WALL WITH THE MAIN LINE PIPE WALL.
THE OPENING SHALL BE RECTANGULAR AND CUT SQUARE TO THE PIPE SURFACE WITHOUT DAMAGING THE REINFORCING STEEL. PROVIDE A CONCRETE ENCASEMENT 1' ABOVE THE TOP OF THE MAIN LINE PIPE TO THE LIMITS OF THE CONCRETE CRADLE IF A JOINT IN THE MAIN LINE PIPE FALLS WITHIN THE LIMITS OF THE CRADLE.
6. THE TRANSVERSE REINFORCEMENT IN PIPE SHALL BE CUT AT CENTER OF OPENING AND BENT INTO TOP AND BOTTOM SLABS OF SPUR.
7. THE MAIN LINE PIPE SHALL BE CRADLED AND ENCASED IN 1:3:5 MIX CONCRETE, EXTENDING LONGITUDINALLY 12" BEYOND THE LIMITS OF BREAKOUT (SEE NOTE 5); AND TRANSVERSELY A DISTANCE OF H ON EACH SIDE OF THE CENTERLINE OF PIPE. $H = 1/2$ O.D. OF PIPE + 3" MIN. CRADLE MAY BE OMITTED ON SIDE OPPOSITE LATERAL INLET WHEN CONSTRUCTED IN CONNECTION WITH EXISTING STORM DRAIN.
8. REINFORCING STEEL SHALL BE PLACED 1 1/2" CLEAR FROM FACE OF CONCRETE, UNLESS OTHERWISE SHOWN.
9. E AND F BARS SHALL BE CARRIED TO A POINT NOT LESS THAN J DISTANCE FROM CENTERLINE. $J = 7/12 D + 6"$.
10. FLOOR OF STRUCTURE SHALL BE STEEL TROWELED TO SPRING LINE.
11. WHEN JUNCTION STRUCTURE TYPE "E" IS SPECIFIED WITH REINFORCED MONOLITHIC ARCH STORM DRAIN VALUE 'D' SHALL REFER TO THE CLEAR SPAN OF THE ARCH. REINFORCING STEEL SHALL BE CUT AND BENT INTO JUNCTION STRUCTURE IN THE SAME MANNER AS FOR PIPE. CONCRETE CRADLE UNDER REINFORCED MONOLITHIC ARCH IS NOT REQUIRED.
12. SIDE INLET PIPE SHALL ENTER MAIN LINE RADIALLY WHEN ELEVATIONS 'R' AND 'S' ARE NOT SHOWN ON PROJECT DRAWINGS. WHEN SIDE INLET PIPE ENTERS MAIN LINE OTHER THAN RADIALLY, ELEVATION 'S' SHALL BE SHOWN ON PROJECT DRAWINGS AND SIDE INLET PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM ELEVATION 'S' TO CATCH BASIN OR GRADE BREAK IN LINE. ELEVATION 'R' SHALL BE SHOWN ON PROJECT DRAWINGS ONLY WHEN STUB IS TO BE PROVIDED IN MAIN LINE FOR FUTURE SIDE INLET PIPE.
13. STATIONS SPECIFIED ON DRAWINGS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERALS, EXCEPT THAT STATIONS FOR CATCH BASIN CONNECTOR PIPE APPLY AT INSIDE OF STRUCTURE.
14. CONCRETE SHALL BE 560-C-3250.

APPROVED:

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CITY ENGINEER

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CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



JUNCTION STRUCTURE
TYPE "E"

STANDARD PLAN
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