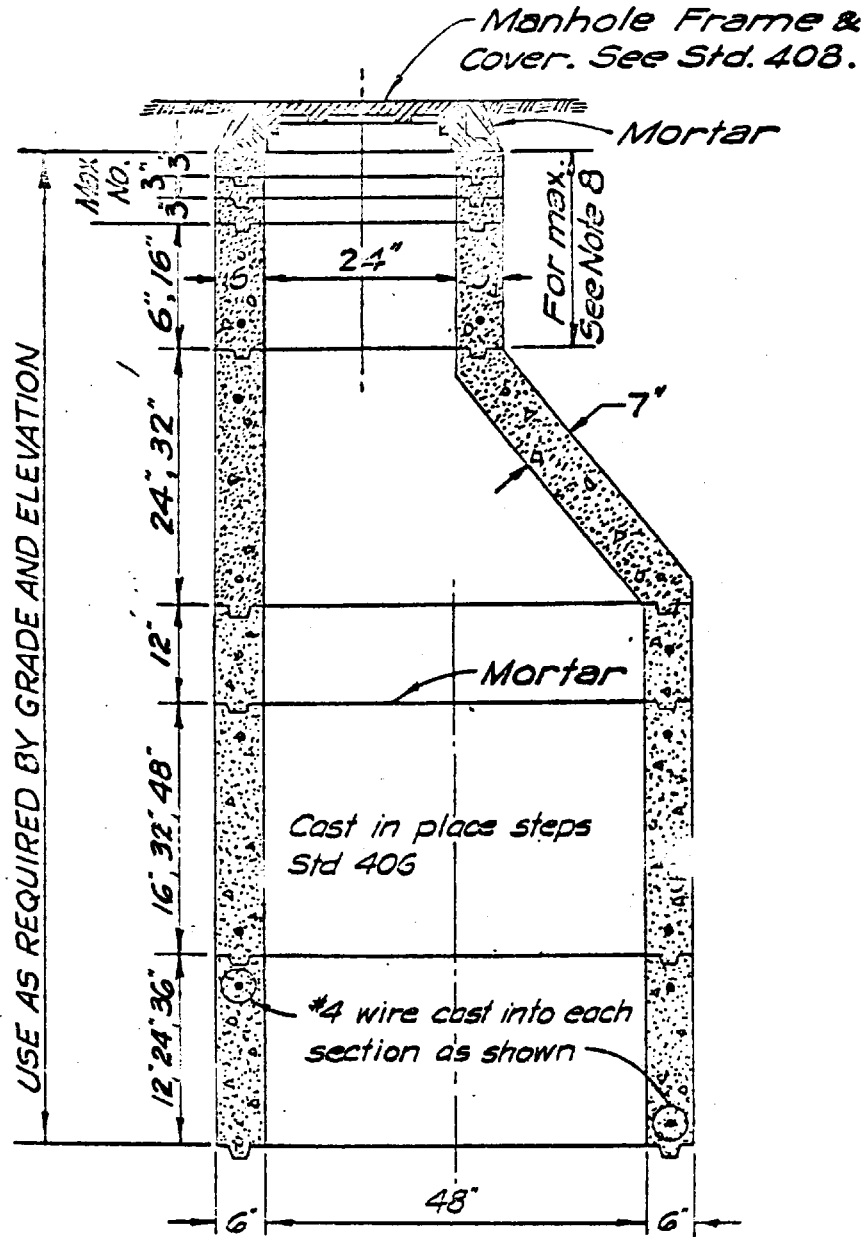


SIMILAR TO EXCEPT AS UNDERLINED
 ORANGE CO NO. 501
 STATE OF CALIF

SUPERSEDES: MS-1
 DATED: 4-23-47

DATE: 4-8-64
 REV: 9-1-68



TYPICAL SECTION
48" ID ECCENTRIC
CONCRETE MANHOLE

UNLESS OTHERWISE SPECIFIED ON PLANS AND SPECIFICATIONS:

1. See STD Plan 407 for manhole base and junction chamber.
2. Stations, of manholes shown on the improvement plans, apply to the centerlines of the manholes. Elevations recorded are at manhole center and refer to the invert grade line prolonged.
3. All mortar and grout shall consist of one part Portland cement and two parts sand.
4. All precast sections shall be either centrifugally spun or vibrated in metal forms.
5. Place the bottom precast section on a ½" thick bed of mortar placed on the manhole base.

CITY OF BREA

CITY ENGINEER

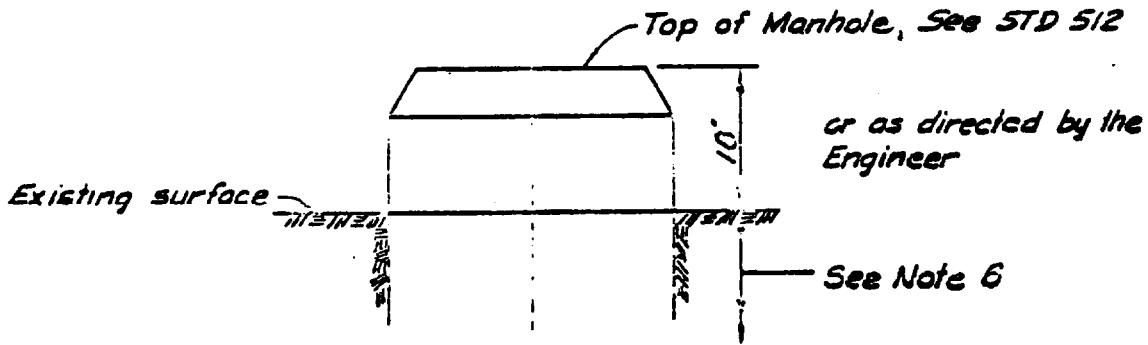
STANDARD
 SHEET 1 OF 2

REINF & NON-REINF CONCRETE CONCENTRIC CONE MANHOLE

402

6. Join all sections with a 1/2" thick bed of mortar.
7. Construct the top of the manhole 18" above existing surface, or as directed by the Engineer, when the man hole is outside the street, traveled way, or in the roadside ditch.
8. There shall be a maximum height of 9 inches for 24 inch ID stations for manholes less than 12 feet in depth. There shall be a maximum height of 21 inches for 24 inch sections for manholes that exceed 12 feet in depth.
9. The manhole frame (STD 408) shall be placed on a 1/2" thick bed of mortar placed on top grade ring. A fillet of mortar shall encase the periphery of the frame from top of grade ring to top of frame.
10. Mortar between sections and grade rings shall be a minimum 1/2" thick.
11. A four inch band of mortar shall be externally plastered of 1/2" minimum thickness over all section joints.

APPROVED SOURCE			
WALL THICK		NAME	ADDRESS
48"	60"		
6"	8"	Associated Concrete Products, Inc	4025 W Talbert Ave, Santa Ana
4 1/2"	5"	American Pipe & Construction Co	4635 Firestone Blvd, South Gate



Manhole installation outside the street or traveled way. See Note 7.