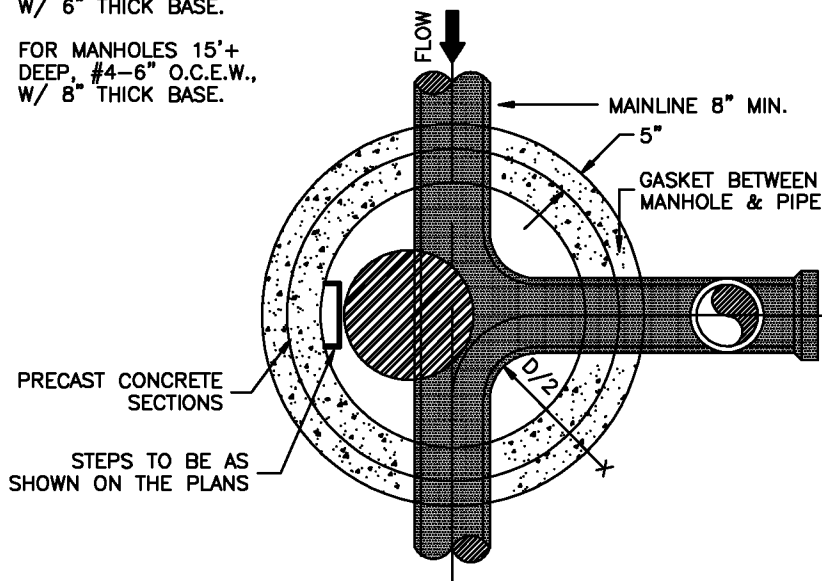


NOTE
USE DROP MANHOLE ONLY
IF THE INVERT ELEVATION
DIFFERENCE IS GREATER
THAN 2 FEET.

MANHOLE BASE:

FOR MANHOLES 6-15'
DEEP, #4-12" O.C.E.W.,
W/ 6" THICK BASE.

FOR MANHOLES 15'+
DEEP, #4-6" O.C.E.W.,
W/ 8" THICK BASE.



NOTES:

1. SEE STANDARD DRAWINGS OF
MANHOLE STEPS, WWS-8
2. SEE STANDARD DRAWINGS OF
MANHOLE RING AND COVER,
WWS-7.
3. ALL CONCRETE CHANNELS
SHALL BE A MIN. OF 3000
PSI RICH-MIX.
4. GROUT ALL LIFTING HOLES.
5. INVERT ELEV., OUTLET ELEV., RIM
ELEV., & DROP ELEV. SHOULD BE
THE SAME SIZE AS SHOWN ON
CONSTRUCTION DRAWINGS.
6. ALL STRUCTURAL CONCRETE
SHALL BE 4000 PSI.

DESIGNED BY:	NTUA
SURVEYED BY:	NTUA
DRAWN BY:	NTUA
APPROVED BY:	NTUA
DATE:	3/08
PROJECT NO.	
SCALE:	NTS
ACAD FILENAME:	Waterwaste Standard
DWG. NO.	WWS-3

NAVAJO TRIBAL UTILITY AUTHORITY
IN THE DISTRICT OF COLUMBIA

**DROPPED MANHOLE
DETAIL**

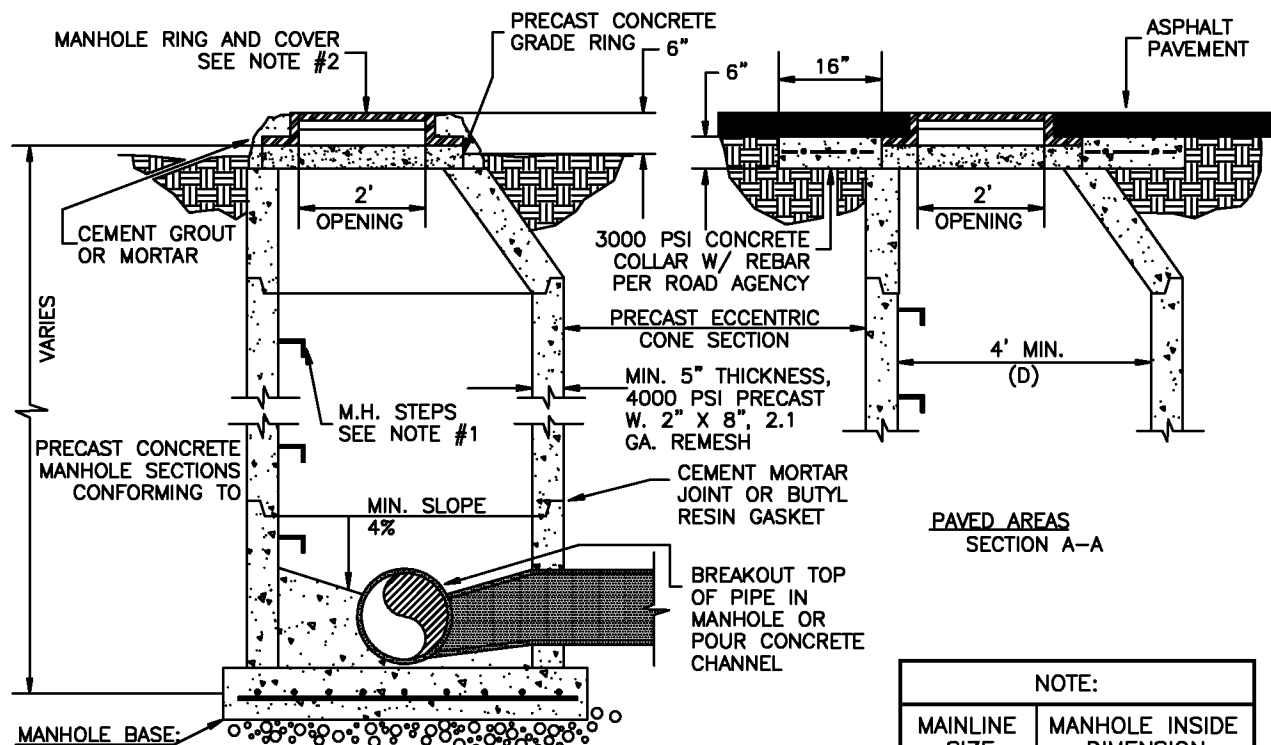
REQ-ENGINEERING

PT.DENVER, CO

REVISIONS

No.	Date	Brief	By
01	3/08	Revised	L.H.
02			
03			
04			
05			
06			





PAVED AREAS
SECTION A-A

FOR MANHOLES 6-15'
DEEP, #4-12" O.C.E.W.,
W/ 6" THICK BASE.

FOR MANHOLES 15'+
DEEP, #4-6" O.C.E.W.,
W/ 8" THICK BASE.

BACKFILL SHALL BE
COMPACTED TO 90%
STANDARD PROCTOR
6" MIN. COMPACTED
GRAVEL BASE

NOTE:

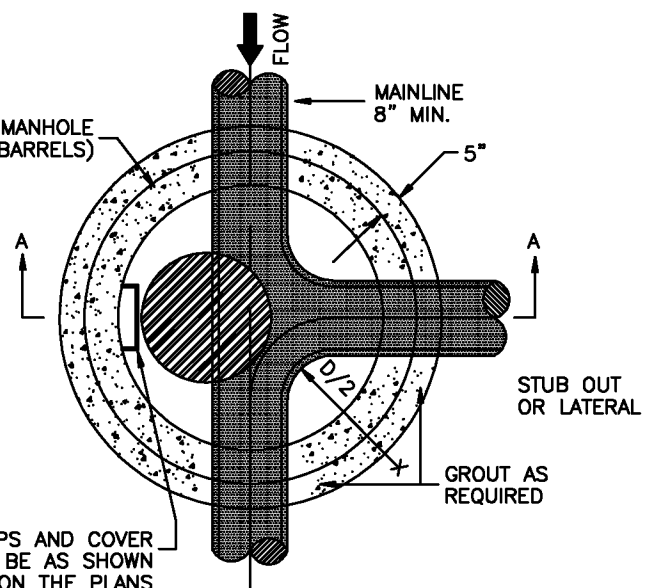
MAINLINE SIZE	MANHOLE INSIDE DIMENSION
8" TO 24"	4'-0"
OVER 24"	6'-0"

RURAL UNPAVED
AREAS
SECTION A-A

NOTES:

1. SEE STANDARD DRAWINGS OF MANHOLE STEPS, WWS-8
2. SEE STANDARD DRAWINGS OF MANHOLE RING AND COVER, WWS-7.
3. ALL CONCRETE CHANNELS SHALL BE A MIN. OF 3000 PSI RICH-MIX.
4. GROUT ALL LIFTING HOLES.
5. INVERT ELEV., OUTLET ELEV., RIM ELEV., & DROP ELEV. SHOULD BE THE SAME AS SHOWN ON CONSTRUCTION DRAWINGS.
6. ALL STRUCTURAL CONCRETE SHALL BE 4000 PSI.

PRECAST MANHOLE
SECTIONS (BARRELS)



STEPS AND COVER
SHALL BE AS SHOWN
ON THE PLANS

DESIGNED BY:	NTUA
SURVEYED BY:	NTUA
DRAWN BY:	NTUA
APPROVED BY:	NTUA
DATE:	3/08
PROJECT NO.	
SCALE:	NTS
ACAD FILENAME:	Waterwaste Standard
DWG. NO.	WWS-4

NAVAJO TRIBAL UTILITY AUTHORITY
IN THE INDIAN DEPARTMENT
STANDARD PRECAST SEWER
MANHOLE DETAIL

REQ-ENGINEERING

PT.DIFFERENCE, AZ

REVISIONS			
No.	Date	Brief	By
01	3/08	Revised	L.H.
02			
03			
04			
05			
06			

