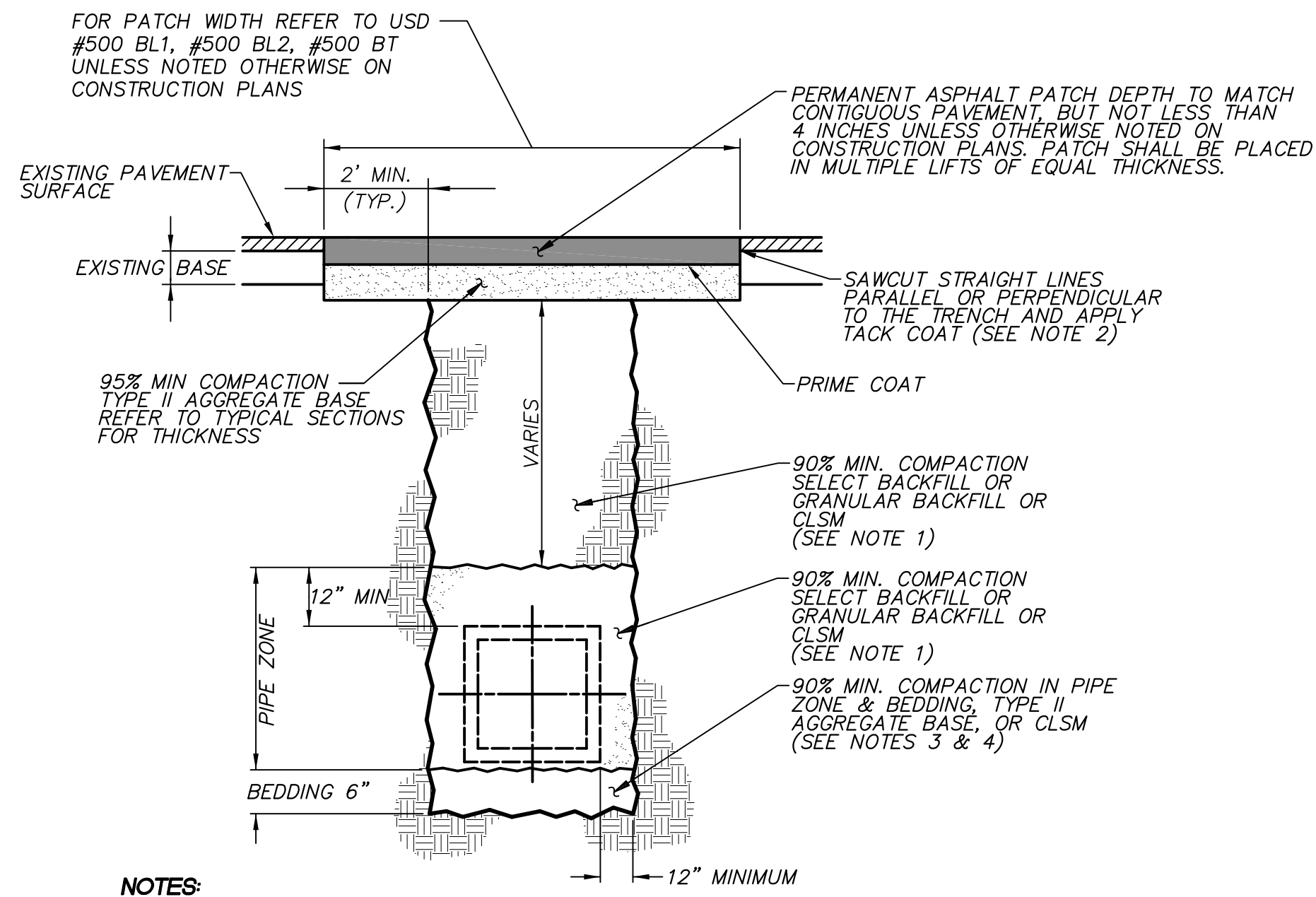


- NOTES:**
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
 2. IF SAWCUT IS WITHIN THREE FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
 3. NATIVE SOILS AT THE BOTTOM OF THE TRENCH SHOULD BE MOISTURE CONDITIONED, AND COMPACTED TO 90% RELATIVE COMPACTION, AS EVALUATED BY ASTM D1557, UNLESS EXPOSED SOILS AT THE BASE OF THE TRENCH ARE LOOSE, SOFT, OR DISTURBED BY EXCAVATION OPERATIONS IN WHICH CASE THESE SOILS SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES, MOISTURE CONDITIONED, AND COMPACTED TO 95 PERCENT RELATIVE COMPACTION, AS EVALUATED BY ASTM D1557.

TYPICAL RCP TRENCH SECTION
N.T.S.

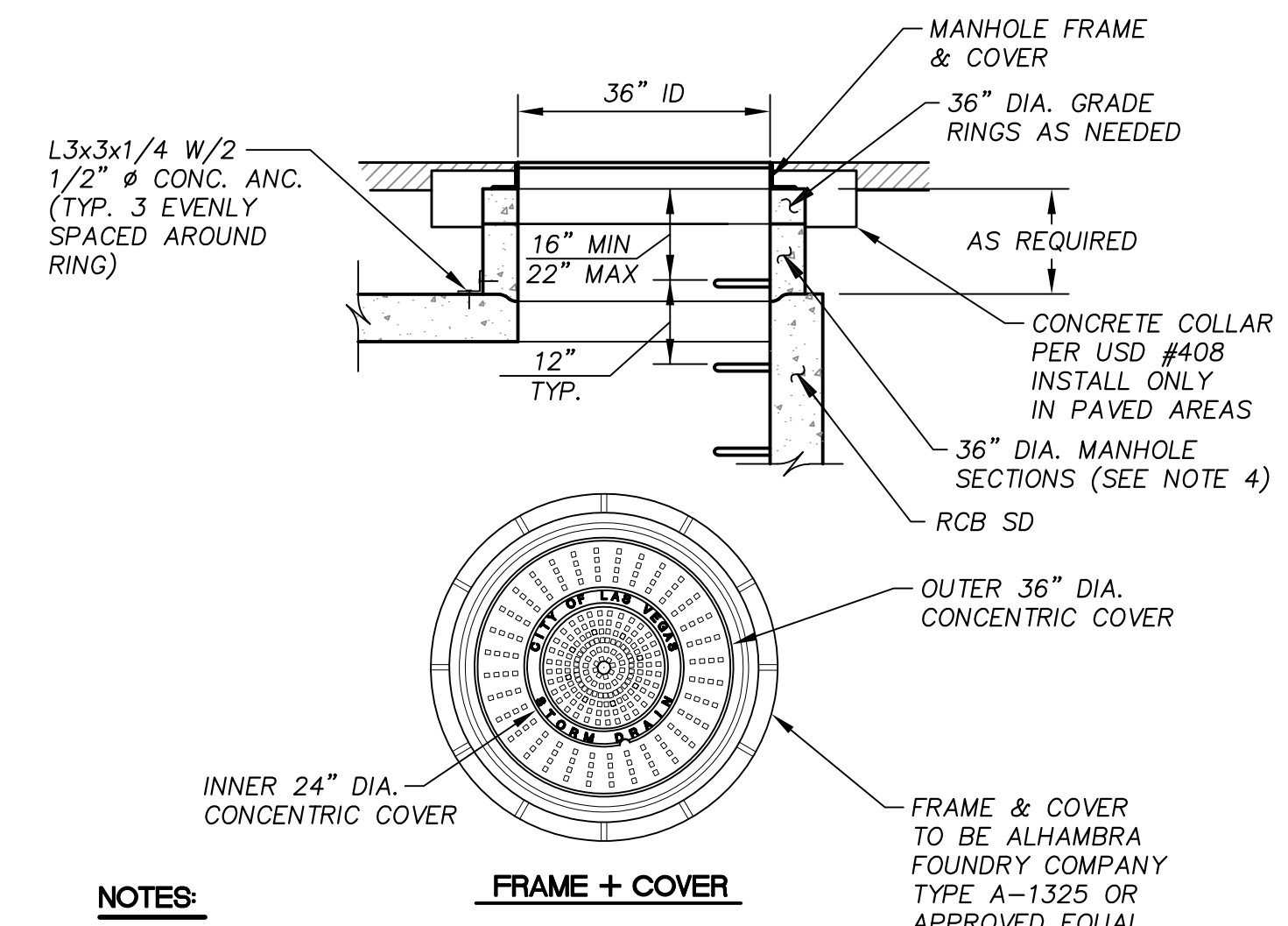
1
SD19



- NOTES:**
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
 2. IF SAWCUT IS WITHIN THREE FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
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TYPICAL RCB TRENCH SECTION
N.T.S.

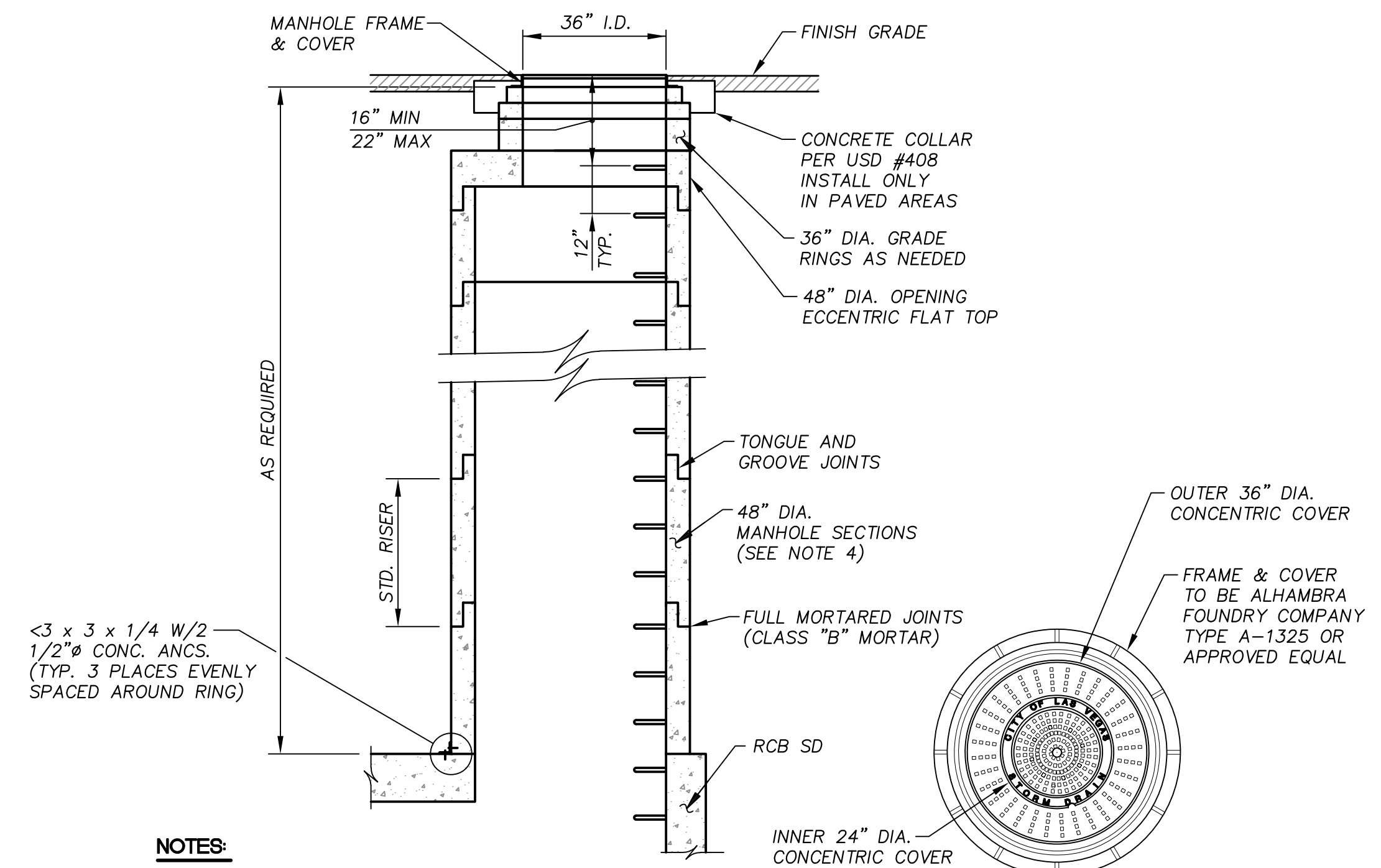
2
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- NOTES:**
1. REFERENCE USD NO. 404.
 2. PRECAST PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.
 3. MANHOLE STEPS PER USD NO. 410.
 4. PRECAST MANHOLE SECTIONS SHALL HAVE LONGITUDINAL REINFORCEMENT GREATER THAN OR EQUAL TO .0018 TIMES THE GROSS AREA OF THE RING.
 5. STEPS SHALL BE EVENLY SPACED FROM 12" TO 16". VERTICAL DISTANCE BETWEEN THE TOP OF MANHOLE AND FIRST STEP SHALL BE A MAXIMUM OF 16". STEPS TO BE INSTALLED DOWN RCB WALL. VERTICAL DISTANCE BETWEEN THE INVERT OF RCB AND LAST STEP SHALL BE A MAXIMUM OF 16".

36" MANHOLE RISER DETAIL
N.T.S.

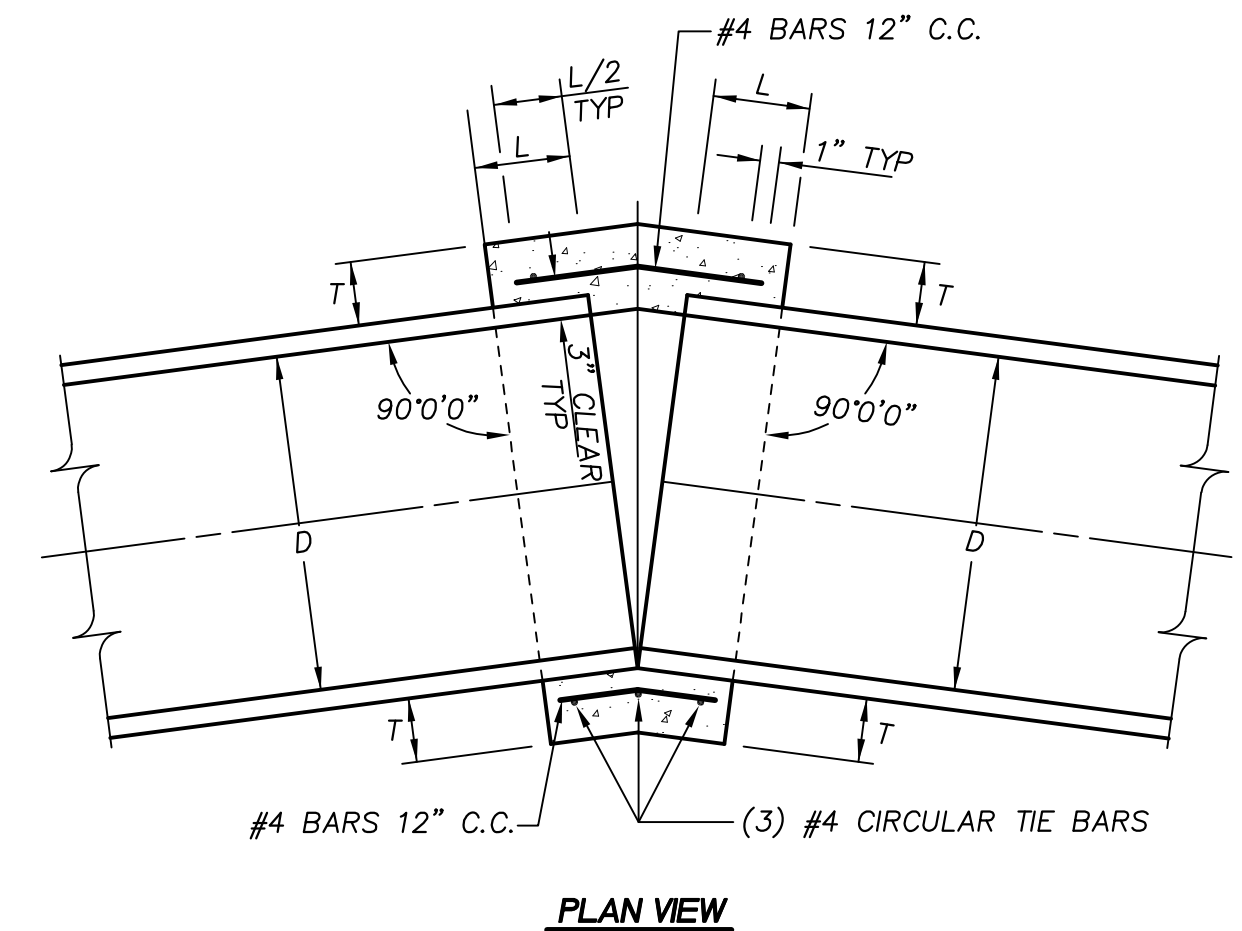
3
SD19



- NOTES:**
1. REFERENCE USD NO. 404.
 2. PRECAST PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.
 3. MANHOLE STEPS PER USD NO. 410.
 4. PRECAST MANHOLE SECTIONS SHALL HAVE LONGITUDINAL REINFORCEMENT GREATER THAN OR EQUAL TO .0018 TIMES THE GROSS AREA OF THE RING.
 5. STEPS SHALL BE EVENLY SPACED FROM 12" TO 16". VERTICAL DISTANCE BETWEEN THE TOP OF MANHOLE AND FIRST STEP SHALL BE A MAXIMUM OF 16". STEPS TO BE INSTALLED DOWN RCB WALL. VERTICAL DISTANCE BETWEEN THE INVERT OF RCB AND LAST STEP SHALL BE A MAXIMUM OF 16".

48" MANHOLE RISER DETAIL
N.T.S.

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SD19



PLAN VIEW

D	18"	24"	30"	36"	42"	48"	60"	72"
T	5"	6"	7"	8"	9"	10"	12"	14"
L	12"	12"	18"	18"	24"	24"	30"	36"

CONCRETE COLLAR DETAIL
N.T.S.

5
SD19

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

TITLE: **FREEWAY CHANNEL - WASHINGTON
MLK BOULEVARD TO RANCHO DRIVE
(WASHINGTON AVE. STORM DRAIN)**

PROFESSIONAL ENGINEER-STATE OF NEVADA
MATHEW S. BAIRD
EXP. 12-31-14
CIVIL
No. 13684

SHEET:
SD19
32 of 63
DRAWING#
731-90

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89074 Telephone:
702/263-7275
Fax: 702/263-7200

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