GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED ON STRUCTURAL DRAWINGS. IN CASE OF CONFLICT BETWEEN GSN, DETAILS AND PLANS, THE GREATER REQUIREMENTS GOVERN.

CODE:

COMPLY WITH 2012 INTERNATIONAL BUILDING CODE.

FOOTINGS:

FOOTINGS SHALL BEAR ON ADEQUATELY PLACED AND COMPACTED STRUCTURAL FILL AT 24" MINIMUM BELOW FINISH GRADE. SOIL BENEATH FOOTINGS SHALL BE SCARIFIED TO A DEPTH OF 36 INCHES, MOISTURE CONDITIONED TO OPTIMUM MOISTURE CONTENT OR ABOVE AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-D-698. ALL STRUCTURAL FILL SHALL BE FREE OF VEGETATION, DEBRIS AND CONTAIN NO ROCK LARGER THAN 3 INCHES. GRADATION OF THE FILL SHALL BE AS FOLLOWS.

SIEVE SIZE	% PASSING
3"	15-45
NO. 4	60-100
NO. 40	100

CONCRETE:

SHALL MEET ALL THE REQUIREMENTS OF THE CURRENT ISSUE OF THE ACI MANUAL OF CONCRETE PRACTICE, WITH TYPE I-II CEMENT. MINIMUM 28 DAY STRENGTH, 3000 PSI, EXCEPT AS FOLLOWS:

FOUNDATIONS OR ANY OTHER CONCRETE
IN CONTACT WITH EARTH.....3000 PSI (MAX W/C = 0.45)
WALLS.....4000 PSI (MAX W/C = 0.45)

6% AIR

MAXIMUM SLUMP:
FOR ALL CONCRETE.....5"

CONTRACTOR SHALL SUBMIT FOR APPROVAL CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE. THE MIX SUBMITTAL SHALL INDICATE WHICH OF THE FOLLOWING ACI 318 METHODS THE CONCRETE SUPPLIER ALONG WITH HIS TESTING LAB INTENDS TO USE FOR CONCRETE PROPORTIONING - THE FIELD EXPERIENCE METHOD, THE LABORATORY TRIAL MIXTURE METHOD OR A COMBINATION OR BOTH. IF CONSECUTIVE TESTS (15 TO 30) ARE BEING RELIED UPON PER ACI 318, SECTION 5.3 THOSE TESTS SHALL BE SUBMITTED ALONG WITH THE MIX DESIGNS. MIX DESIGNS SHALL BEAR THE STAMP OF AN ENGINEER LICENSED IN THE STATE OF NEW MEXICO.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND EMBEDDED ITEMS. DO NOT TAMP SLABS. USE ROLLER BUG, VIBRATING SCREED OR BULL FLOAT TO FINISH. SEE SPECIFICATIONS FOR CURING.

MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 75% OF SPECIFIED STRENGTH AT 28 DAYS.

CHANNEL CONSTRUCTION

CAST-IN-PLACE CONCRETE: CONCRETE SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. (f'c = 3000 psi MINIMUM). ¾" CHAMFER ON ALL EXPOSED FORMED EDGES UNLESS OTHERWISE NOTED.

REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED.

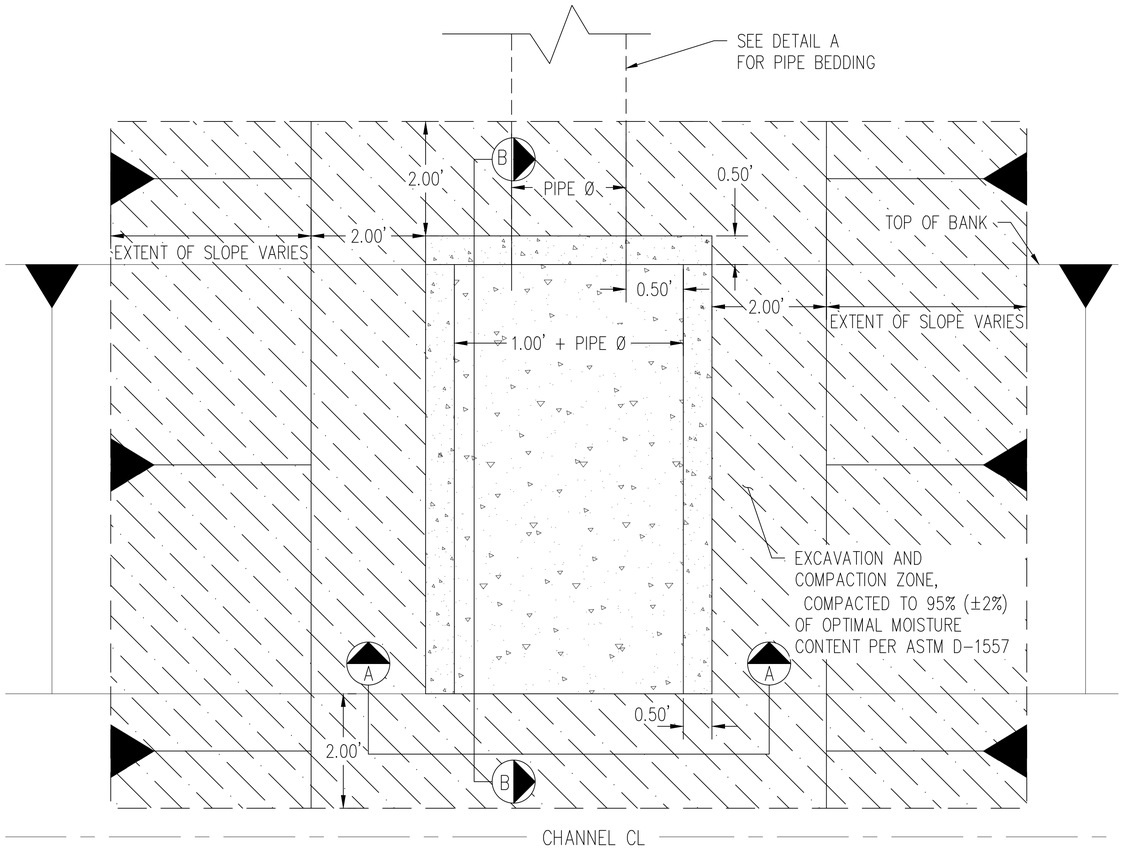
MINIMUM REBAR LAP LENGTH (CLASS "B" LAPS): #4 = 24".

CONTROL JOINTS SHALL BE NO MORE THAN 10' APART.

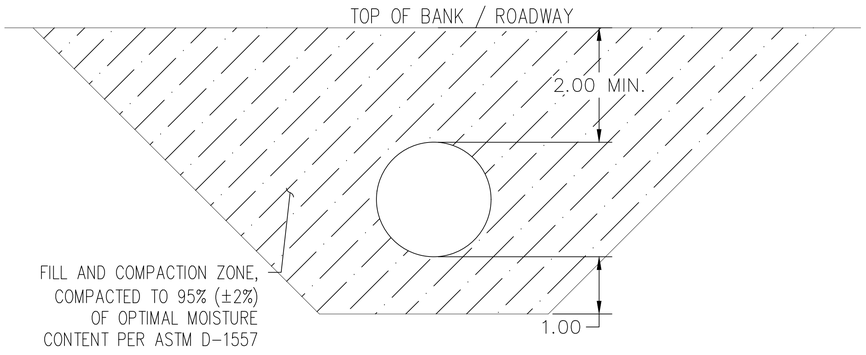
LAP SPLICES IN CONCRETE SHALL BE CLASS B TENSION LAPS, AND SHALL NOT BE LESS THAN 24".

REBAR SPACING GIVEN IS MAXIMUM ON CENTER AND ALL REBAR IS CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE BENT CORNER REBAR TO MATCH AND LAP WITH HORIZONTAL REBAR AT CORNERS AND INTERSECTIONS OF WALLS. DOWEL ALL VERTICAL WALL REBAR TO FOUNDATIONS. SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING CONCRETE.

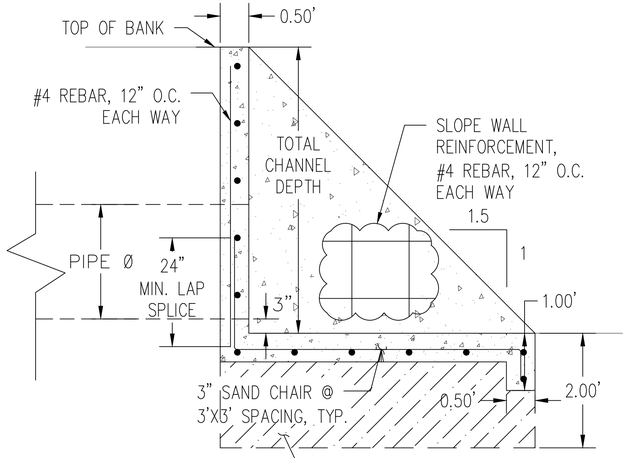
CLEARANCE FROM EDGE OD CONCRETE TO REBAR IS 2".



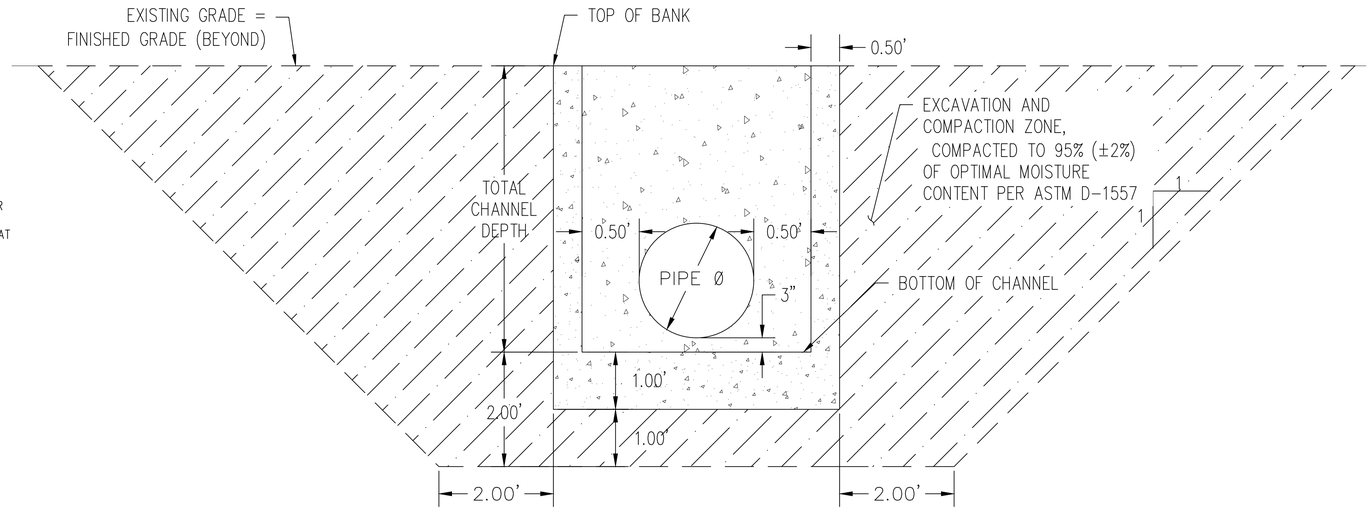
PLAN VIEW
1"=1.25'



DETAIL A: PIPE BEDDING
1"=1.25'



SECTION B-B
1"=1.25'



SECTION A-A
1"=1.25'

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

MRGCD STANDARD DETAIL
CONCRETE TURNOUT
CAST IN PLACE

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

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