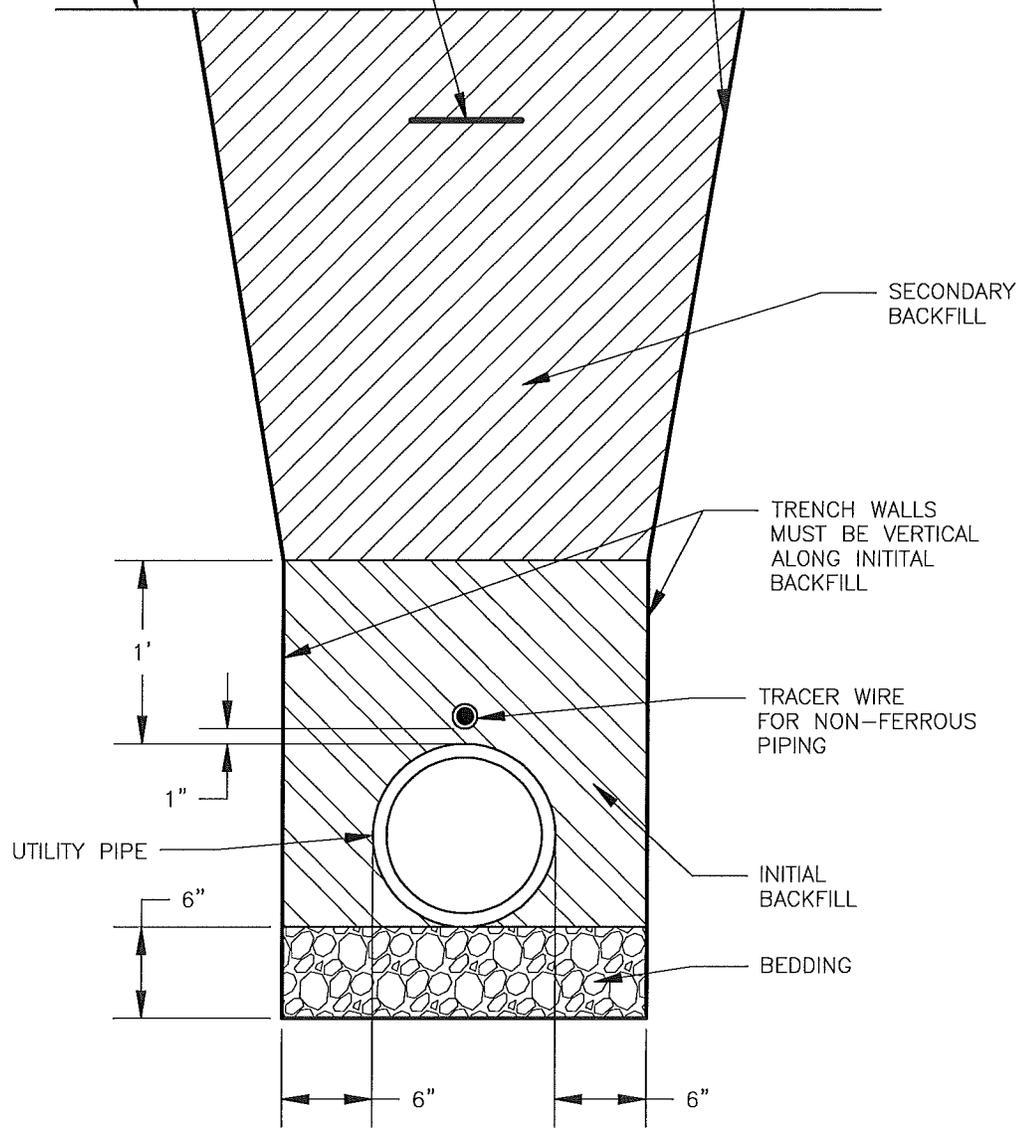


DETECTABLE WARNING TAPE, 12" BELOW
FINISHED GRADE IN UNPAVED AREAS,
6" BELOW SUBGRADE IN PAVED AREAS

FINISHED
GRADE

FACE OF
EXCAVATION



SECONDARY
BACKFILL

TRENCH WALLS
MUST BE VERTICAL
ALONG INITIAL
BACKFILL

TRACER WIRE
FOR NON-FERROUS
PIPING

INITIAL
BACKFILL

BEDDING

UTILITY PIPE

1'

1"

6"

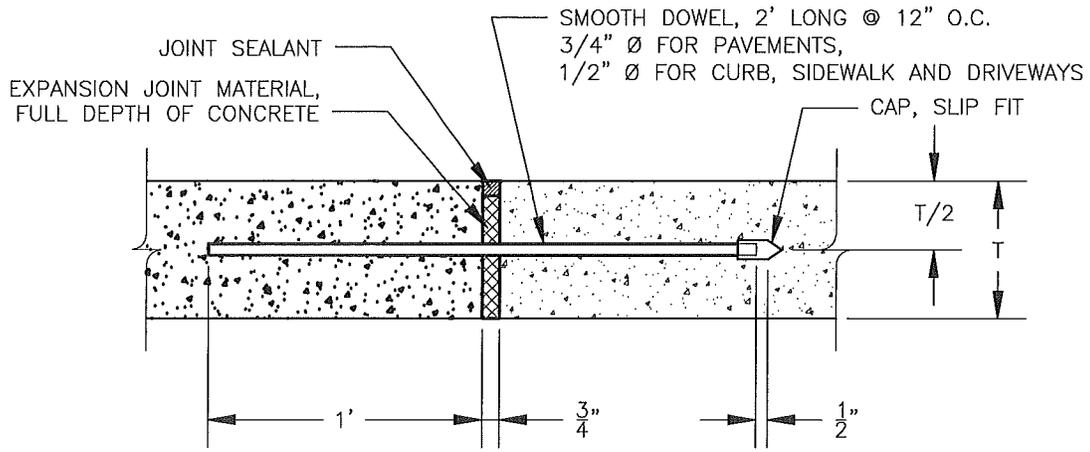
6"

6"

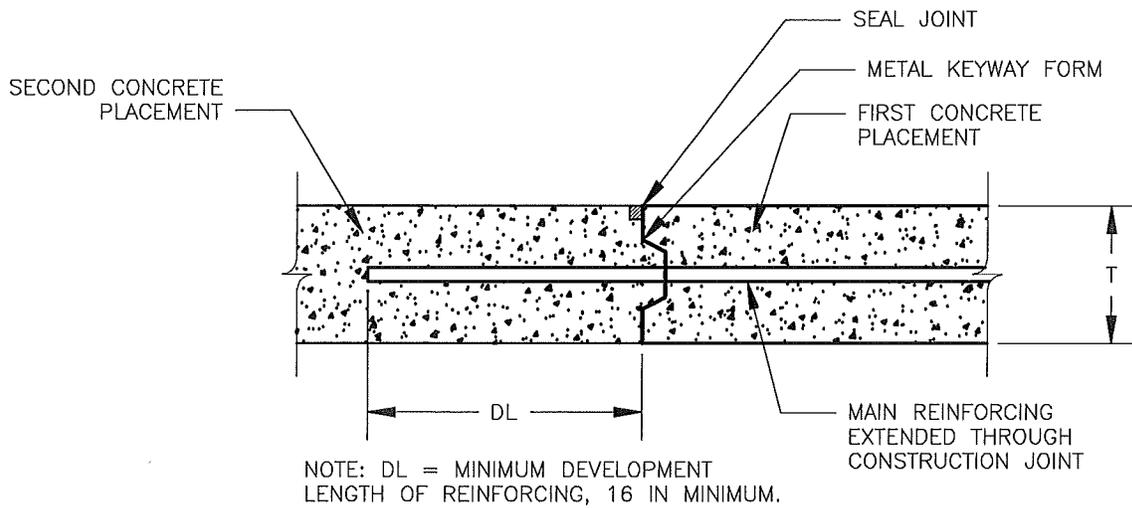
CITY OF BOERNE

UTILITY PIPE TRENCH

SCALE: N.T.S.	DRAWING No. 02221-1.0	DATE: JULY 2015
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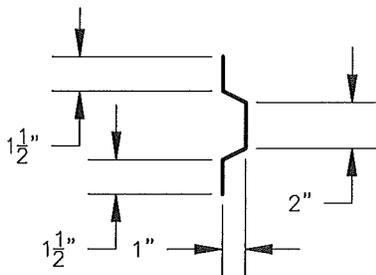


EXPANSION JOINT



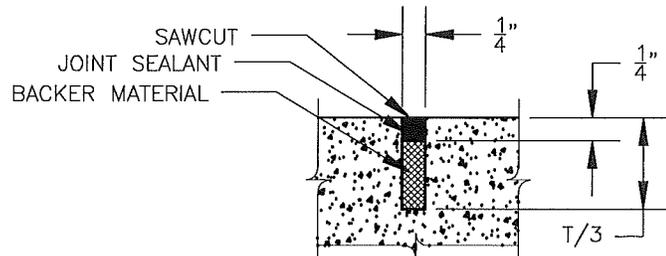
CONSTRUCTION JOINT

NOTE: USE KEYED JOINTS WITH METAL KEYWAY FORM FOR CONSTRUCTION JOINTS. FOR SIDEWALKS, DRIVEWAYS AND CURBS ONLY: AS AN ALTERNATE TO THE METAL KEYWAY FORM, ROUGHEN CONCRETE OF ADJOINING FIRST POUR AND APPLY AN ADHESIVE BONDING AGENT TO ROUGHENED CONCRETE.



NOTE: DIMENSIONS ARE NOMINAL, ±1/8".

METAL KEYWAY FORM SECTION



SAWED CONTRACTION JOINT

NOTE: SAWED CONTRACTION JOINTS MUST BE USED ON CONCRETE PAVING. ON DRIVEWAYS, SIDEWALKS AND CURB, TOOLED CONTRACTION JOINTS MAY BE USED. THE TOOLED JOINT MUST BE 1/2 INCH DEEP AND 1/2 INCH WIDE WITH A 1/4 INCH RADIUS ALONG THE EDGE.

CITY OF BOERNE

CONCRETE JOINTS

SCALE:

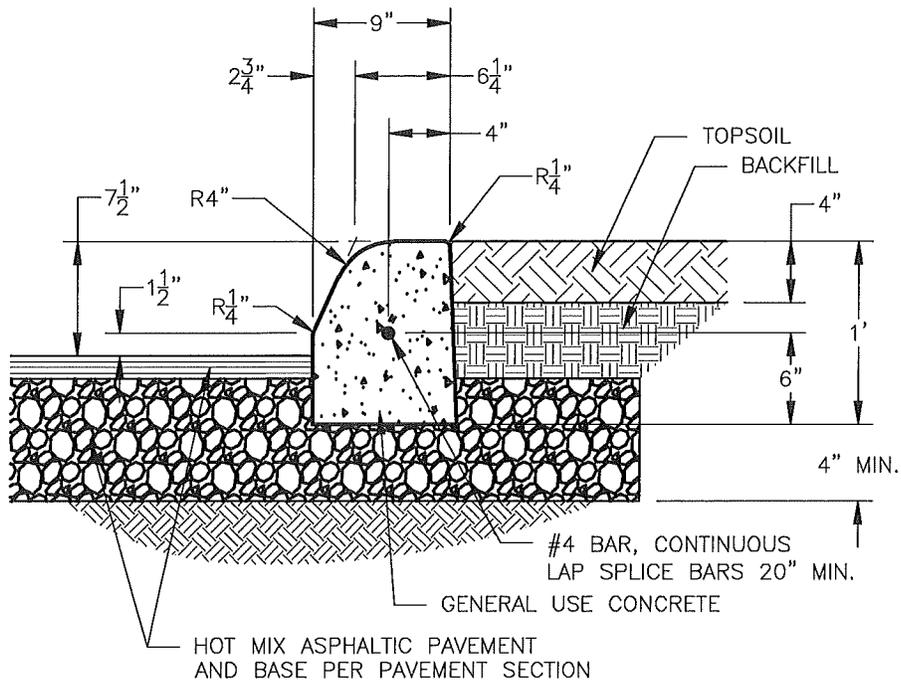
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DRAWING No.

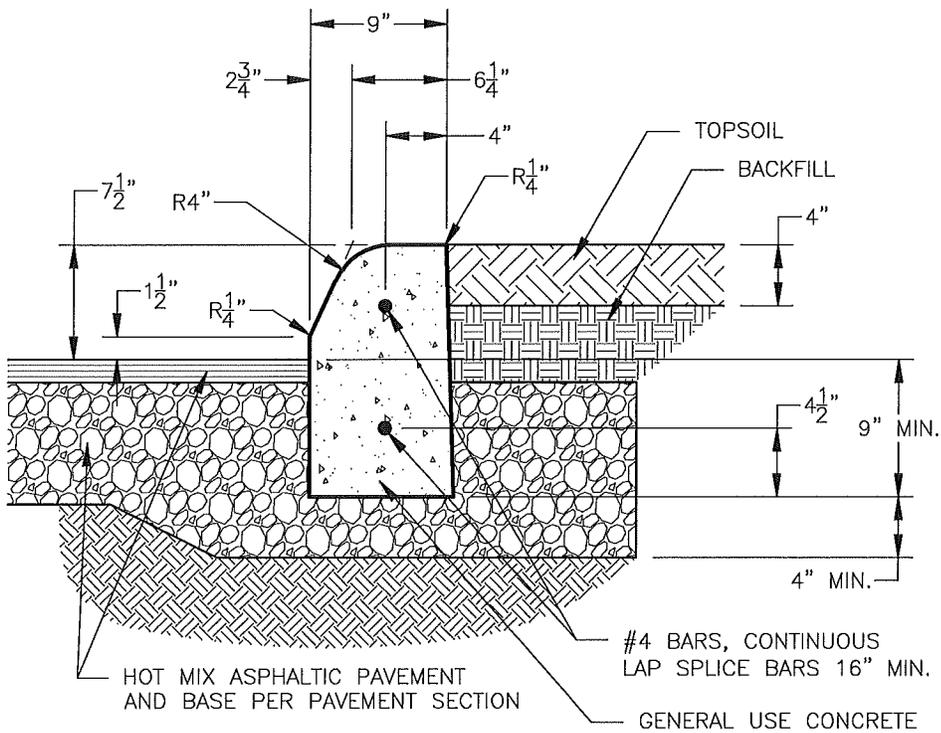
02502-1.2

DATE:

JULY 2015



STANDARD CONCRETE CURB



ALTERNATE DEEP CONCRETE CURB

NOTE:

STANDARD CURB MUST BE REMOVED AND REPLACED WITH A HEADER CURB TO ACCOMMODATE DRIVEWAYS.

THE ALTERNATE DEEP CURB MAY BE SAW CUT HORIZONTALLY TO ACHIEVE A HEADER CURB SECTION FOR DRIVEWAYS.

CITY OF BOERNE

CONCRETE CURB

SCALE:

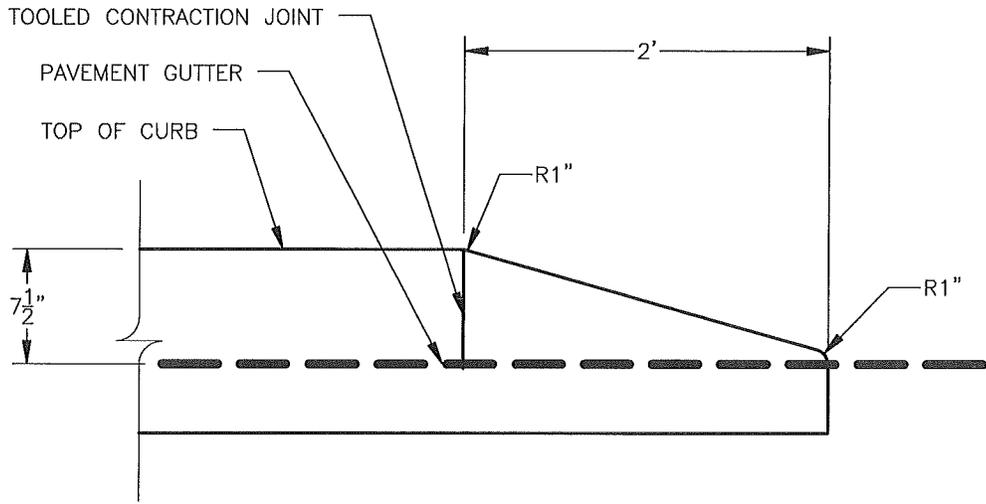
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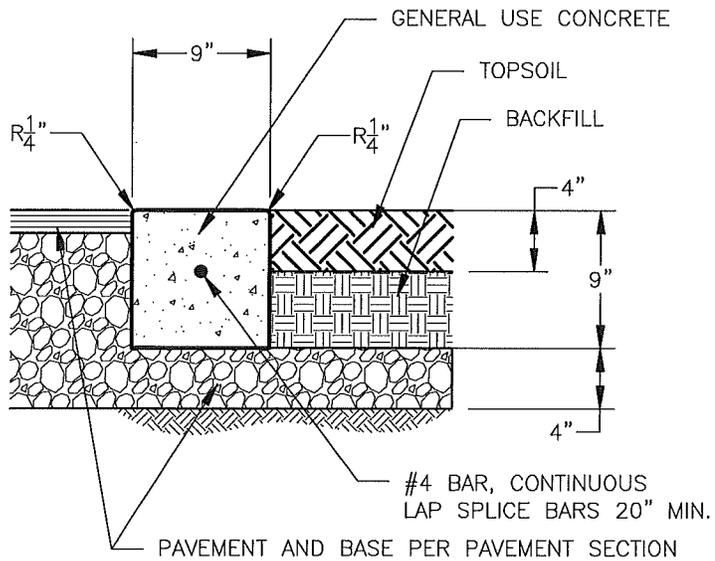
02502-2.0

DATE:

JULY 2015



CURB TERMINATION ELEVATION



HEADER CURB SECTION

CITY OF BOERNE

**CONCRETE CURB TERMINATION AND
HEADER CURB**

SCALE:

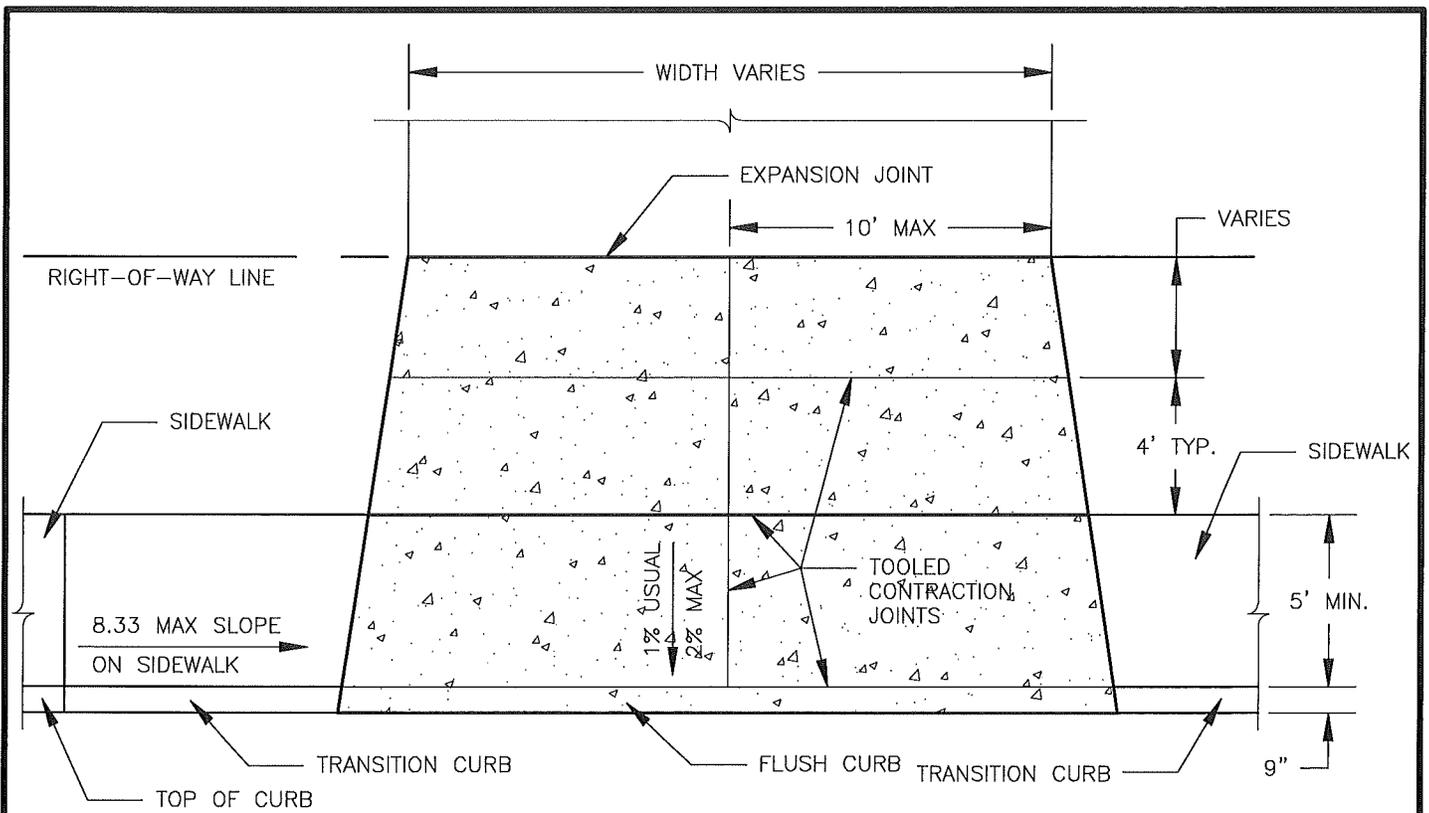
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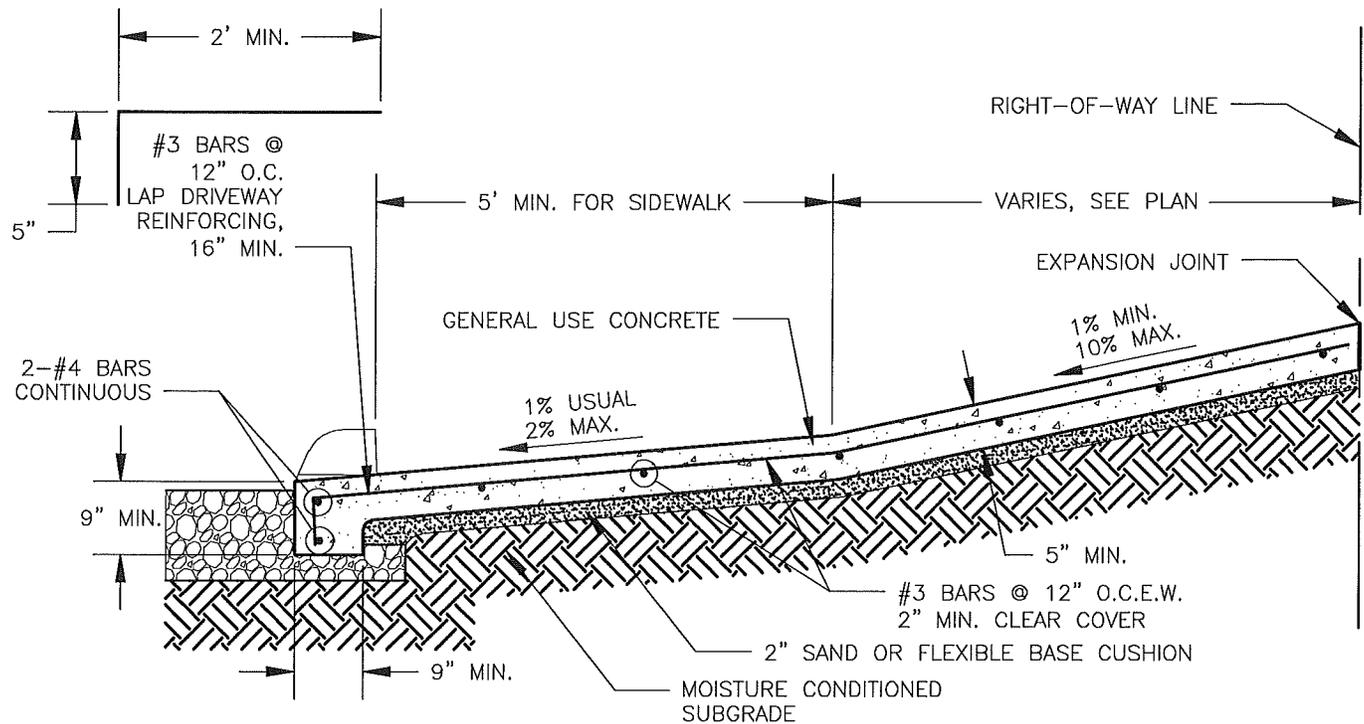
02502-2.1

DATE:

JULY 2015



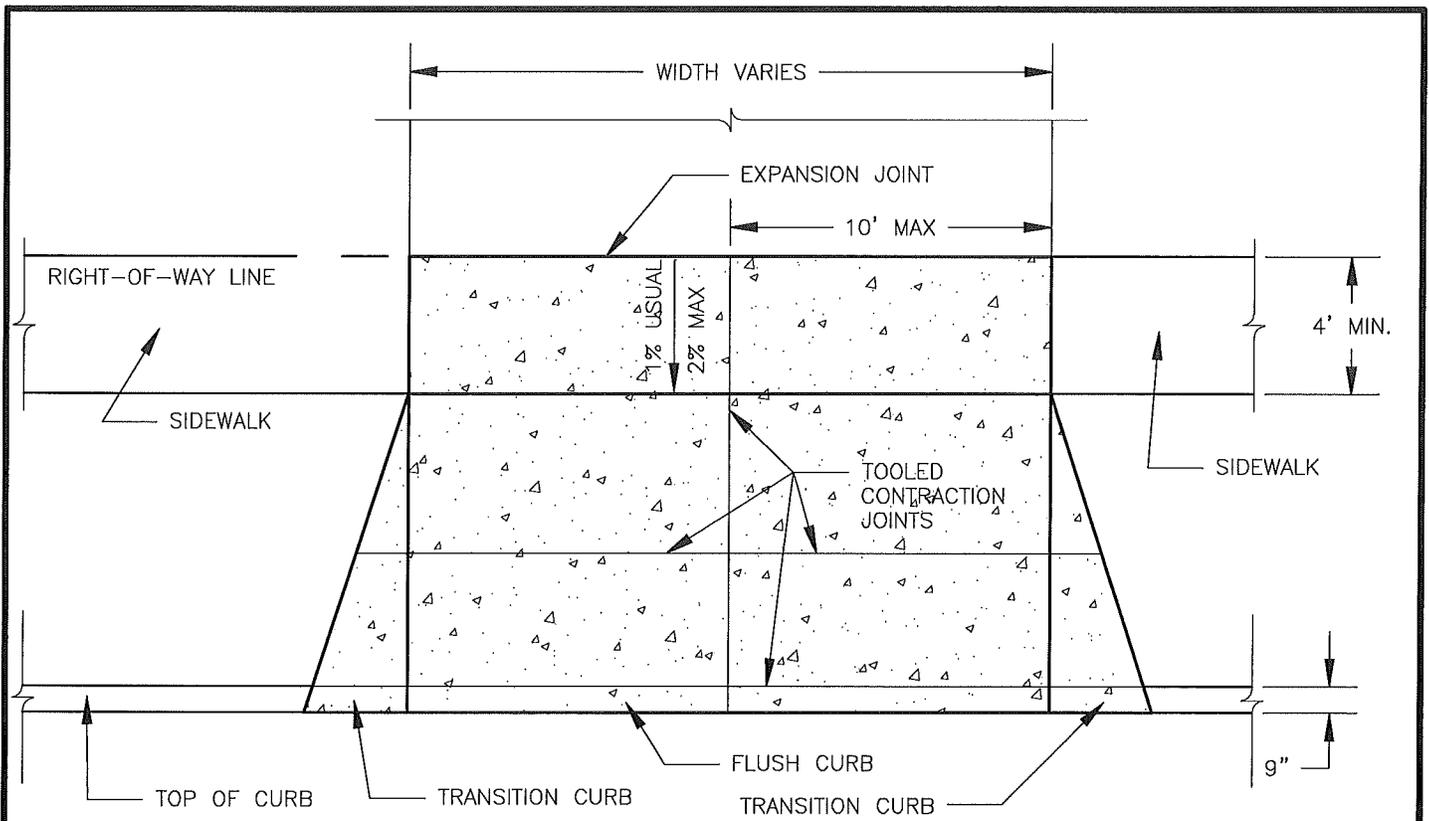
PLAN



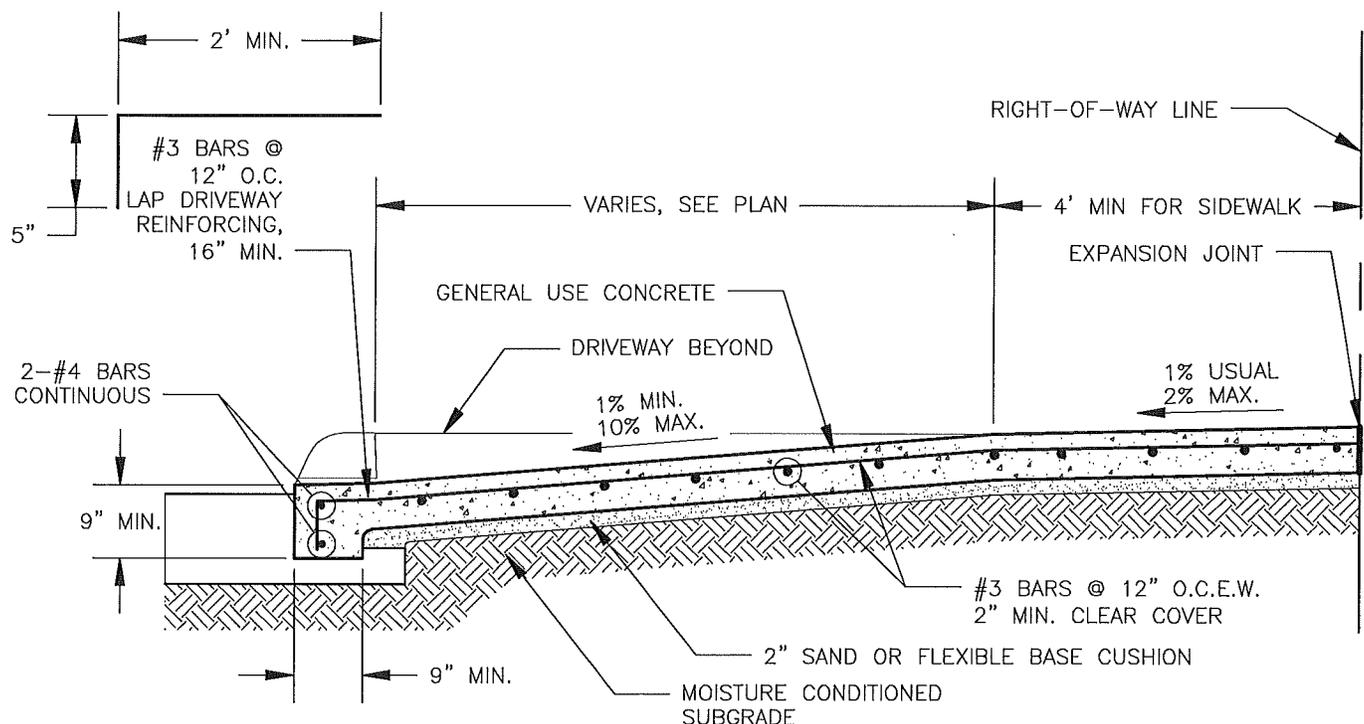
SECTION

NOTE: THE HEADER CURB CONSTRUCTION MAY BE DELETED WHEN CONSTRUCTING DRIVEWAY ADJACENT TO AN EXISTING HEADER CURB THAT IS A MINIMUM OF 9" DEEP WITH AT LEAST ONE HORIZONTAL BAR. INSTALL AN EXPANSION JOINT BETWEEN THE EXISTING HEADER CURB AND DRIVEWAY.

CITY OF BOERNE		
CONCRETE DRIVEWAY APPROACH SIDEWALK AT CURB		
SCALE: N.T.S.	DRAWING No. 02502-3.0	DATE: JULY 2015



PLAN

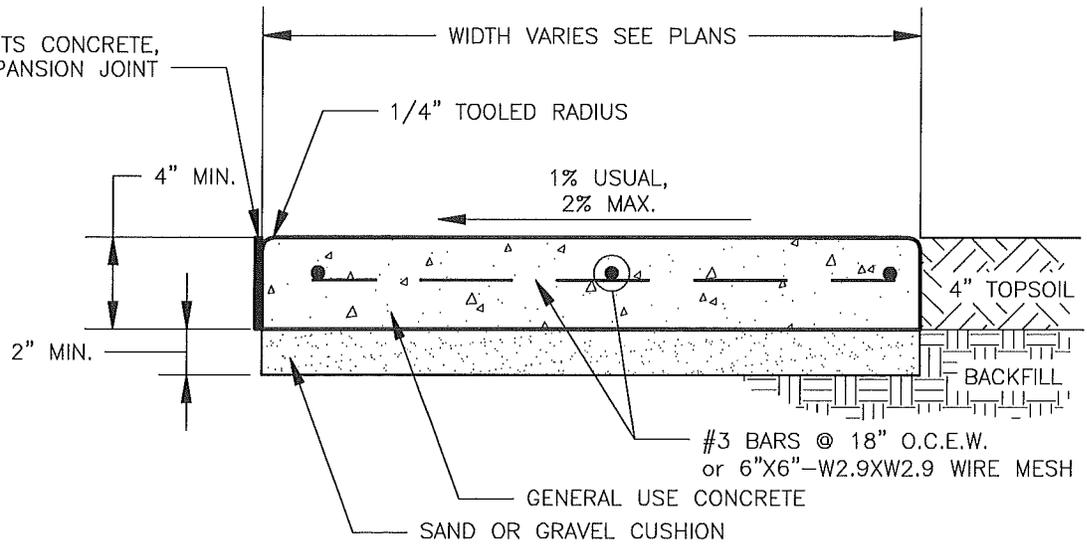


SECTION

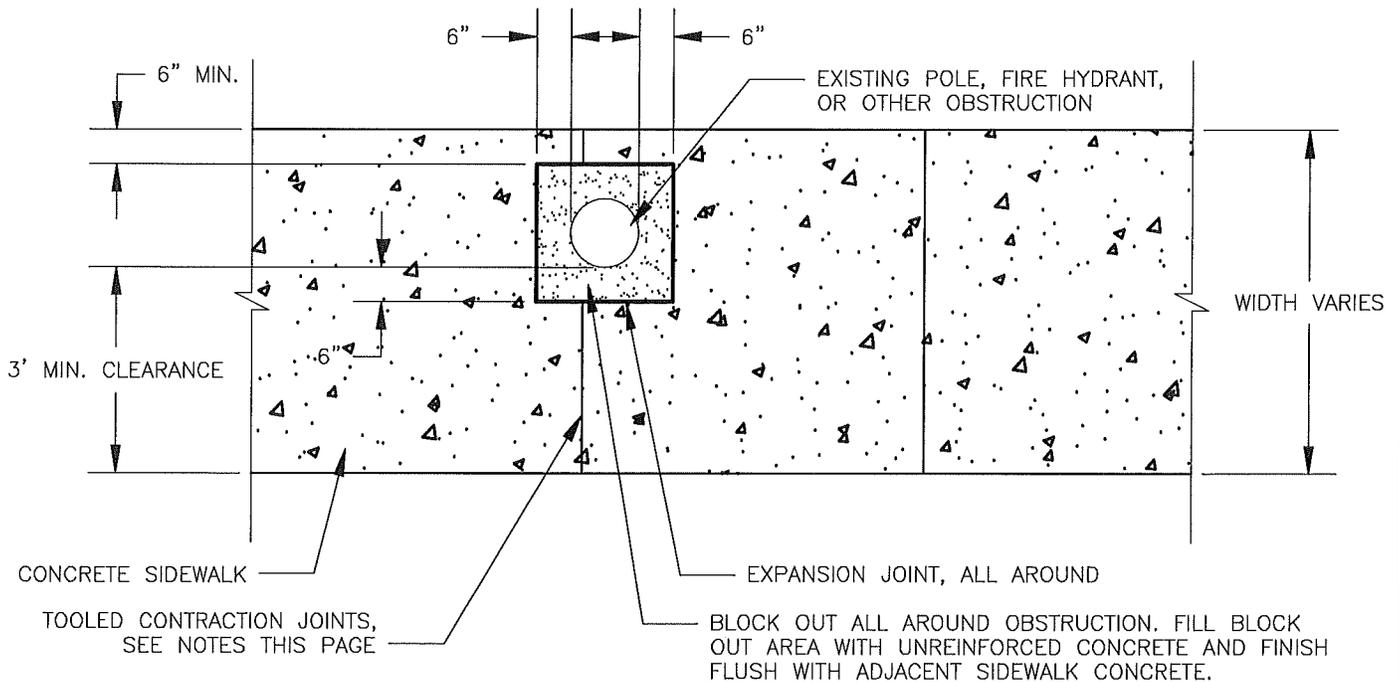
NOTE: THE HEADER CURB CONSTRUCTION MAY BE DELETED WHEN CONSTRUCTING DRIVEWAY ADJACENT TO AN EXISTING HEADER CURB THAT IS A MINIMUM OF 9" DEEP WITH AT LEAST ONE HORIZONTAL BAR. INSTALL AN EXPANSION JOINT BETWEEN THE EXISTING HEADER CURB AND DRIVEWAY.

CITY OF BOERNE		
CONCRETE DRIVEWAY APPROACH SIDEWALK AT ROW LINE		
SCALE: N.T.S.	DRAWING No. 02502-3.1	DATE: JULY 2015

WHERE SIDEWALK ABUTS CONCRETE,
INSTALL FULL DEPTH EXPANSION JOINT



TYPICAL SIDEWALK SECTION



SIDEWALK PLAN WITH BLOCK OUT FOR OBSTRUCTION

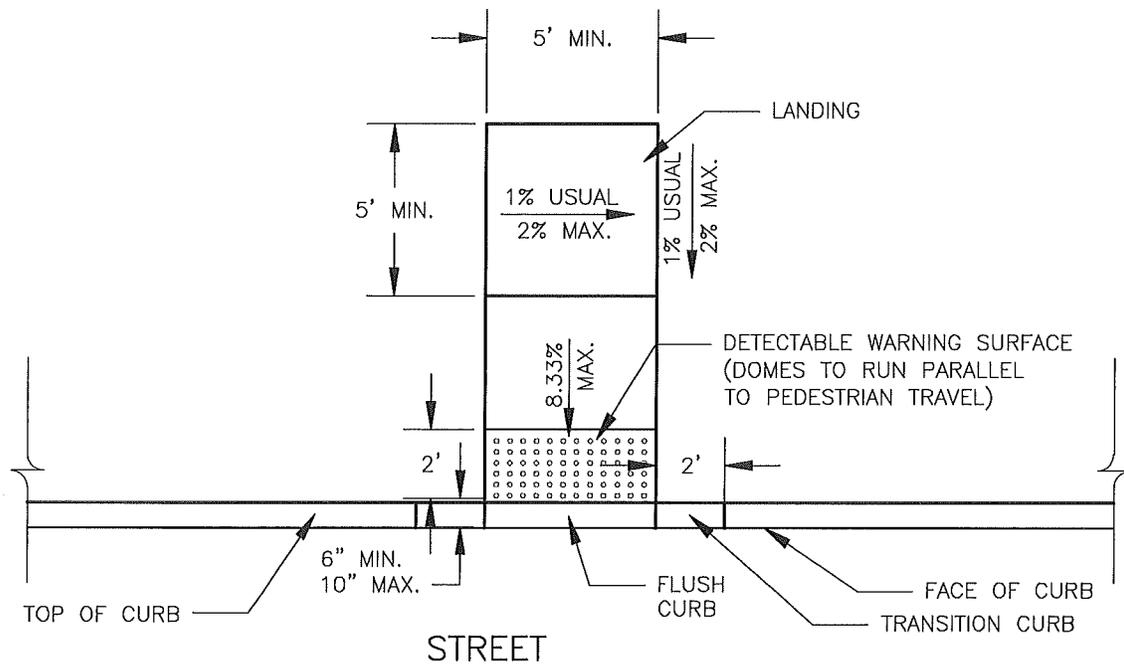
NOTES:

1. WIDEN SIDEWALK AS NECESSARY TO MAINTAIN A CLEAR PATH 3' WIDE PAST OBSTRUCTIONS INCLUDING UTILITY POLES, STREET SIGNS, MAIL BOXES, ETC.
2. PROVIDE CONTRACTION AND EXPANSION JOINTS AS FOLLOWS:
 - 4 FT WIDE SIDEWALK: TOOLED CONTRACTION JOINTS AT 4 FT INTERVALS, EXPANSION JOINTS AT 48 FT INTERVALS.
 - 5 FT WIDE SIDEWALK: TOOLED CONTRACTION JOINTS AT 5 FT INTERVALS, EXPANSION JOINTS AT 50 FT INTERVALS.
 - 6 FT AND WIDER SIDEWALKS: TOOLED CONTRACTION JOINTS AT 6 FT INTERVALS AND EXPANSION JOINTS AT 48 FT INTERVALS.

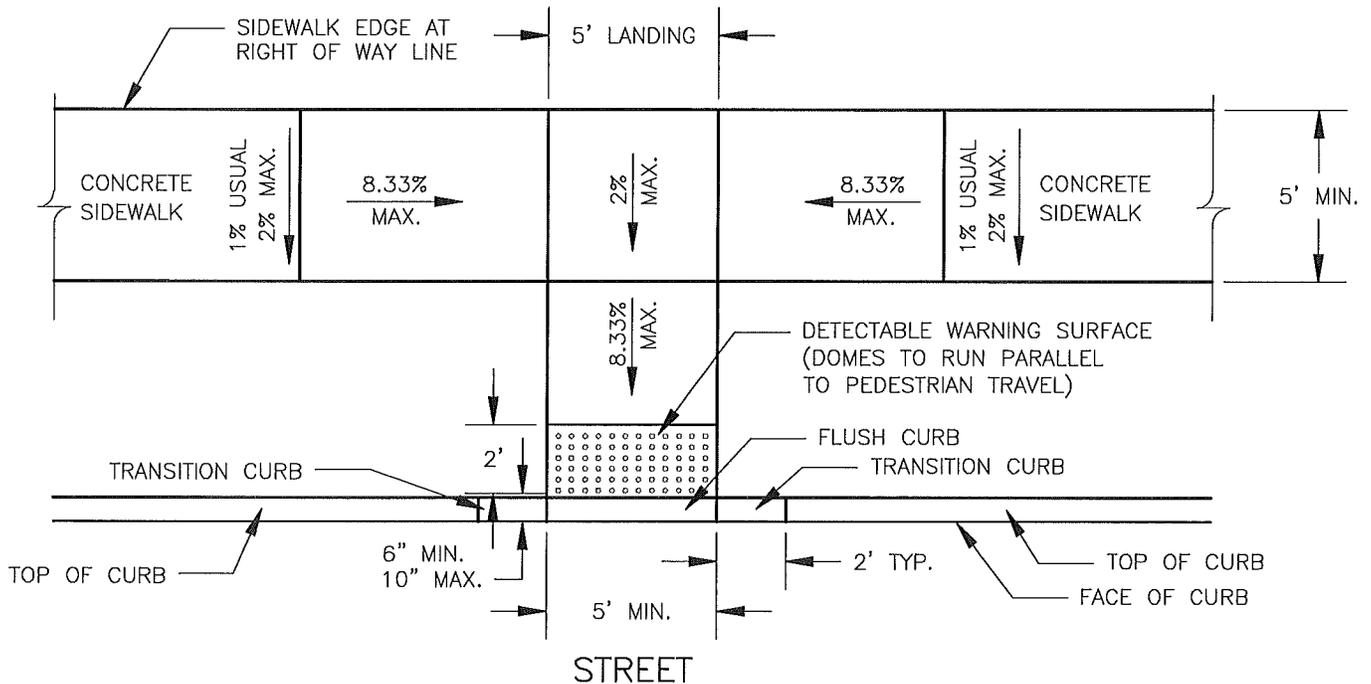
CITY OF BOERNE

CONCRETE SIDEWALK

SCALE: N.T.S.	DRAWING No. 02502-4.0	DATE: JULY 2015
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CURB RAMP IN PERPENDICULAR SIDEWALK



RAMP IN PARALLEL SIDEWALK WITH PERPENDICULAR CURB RAMP

NOTE: LONGITUDINAL SLOPE OF SIDEWALK CANNOT EXCEED 5% WITHOUT A RAMP UNLESS THE SLOPE OF THE CURB AND ROADWAY EXCEEDS 5% AND THE SIDEWALK MATCHES THE CURB AND ROADWAY SLOPE. RAMP CANNOT EXCEED A LONGITUDINAL SLOPE OF 8.33% AND MUST HAVE A FIVE FOOT SQUARE LANDING AT EACH END.

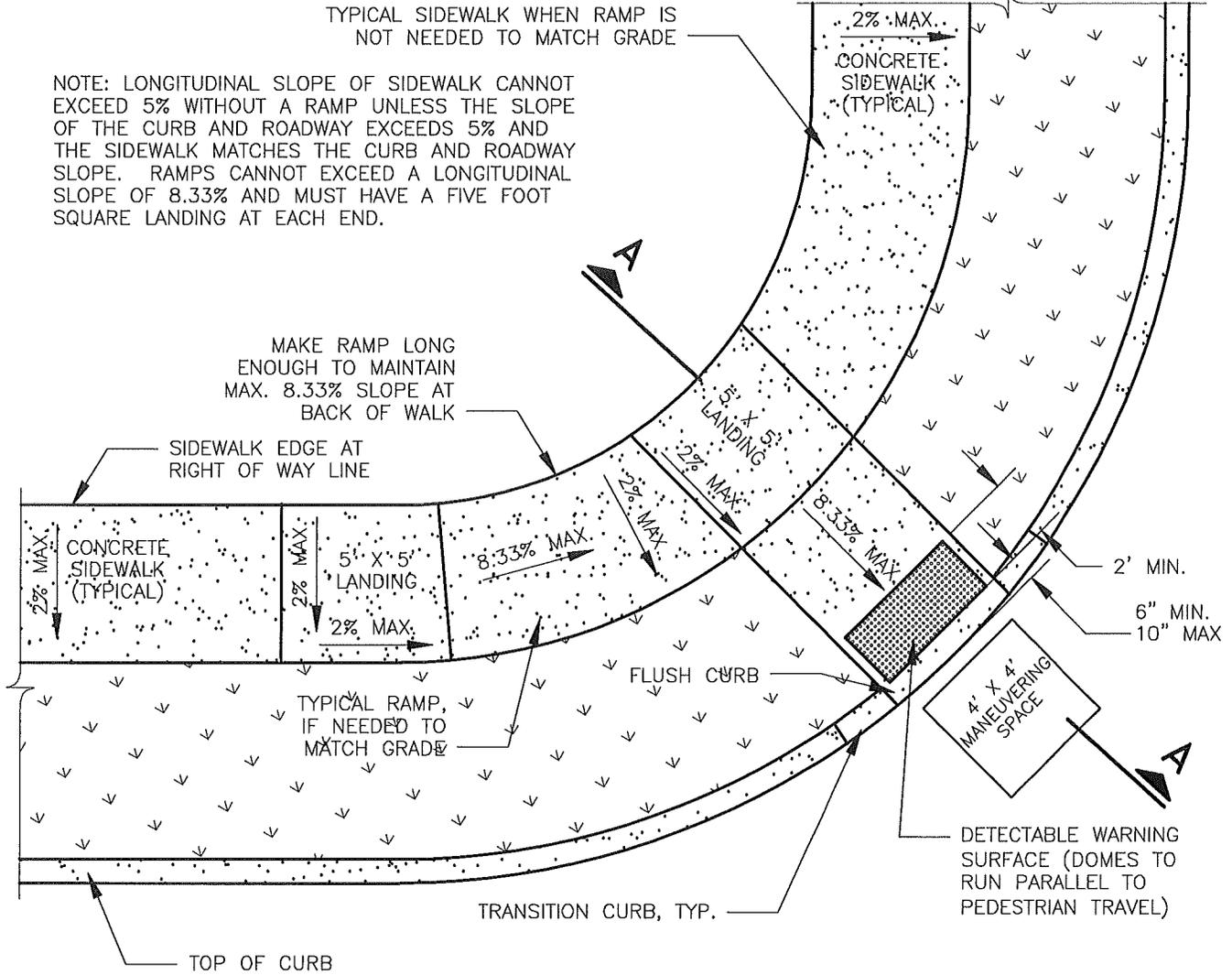
CITY OF BOERNE

SIDEWALK CURB RAMPS SIDEWALK AT ROW LINE

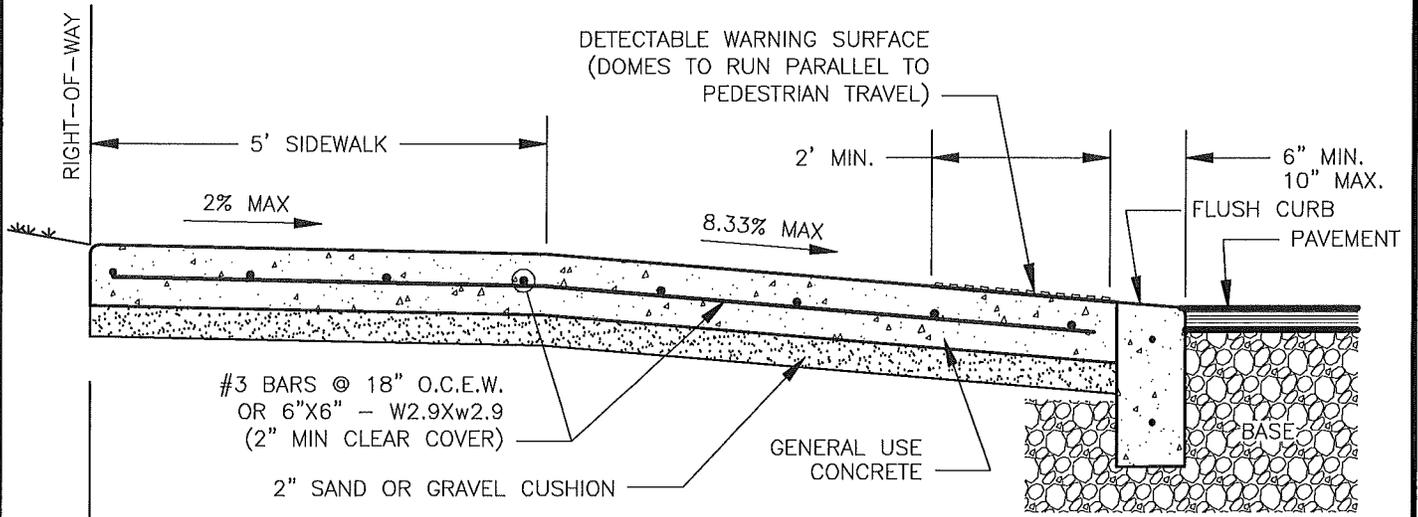
SCALE: N.T.S. DRAWING No. 02502-4.1 DATE: JULY 2015

TYPICAL SIDEWALK WHEN RAMP IS NOT NEEDED TO MATCH GRADE

NOTE: LONGITUDINAL SLOPE OF SIDEWALK CANNOT EXCEED 5% WITHOUT A RAMP UNLESS THE SLOPE OF THE CURB AND ROADWAY EXCEEDS 5% AND THE SIDEWALK MATCHES THE CURB AND ROADWAY SLOPE. RAMP CANNOT EXCEED A LONGITUDINAL SLOPE OF 8.33% AND MUST HAVE A FIVE FOOT SQUARE LANDING AT EACH END.



PLAN

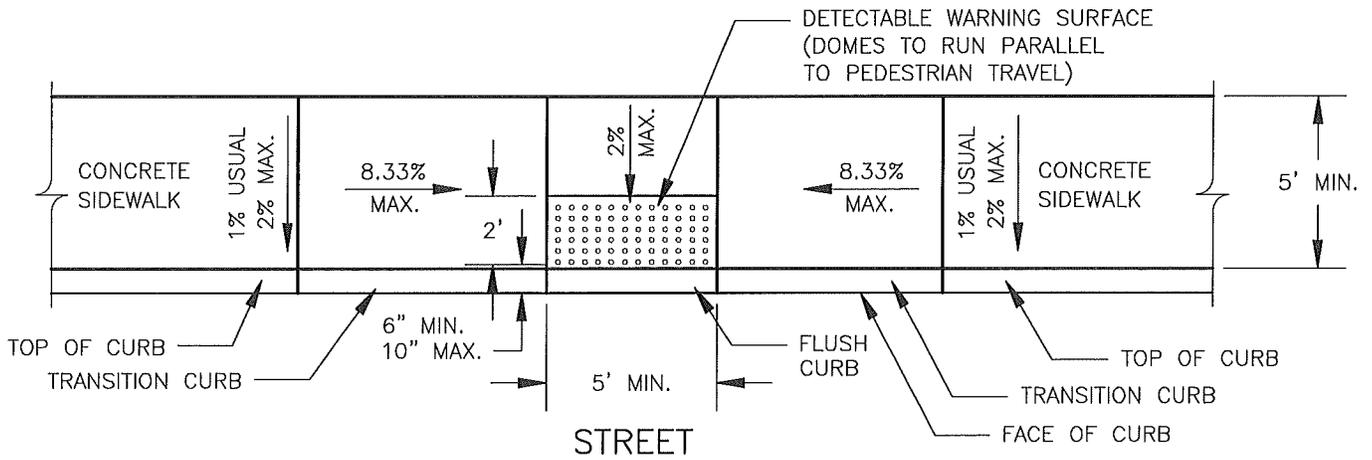


SECTION A-A

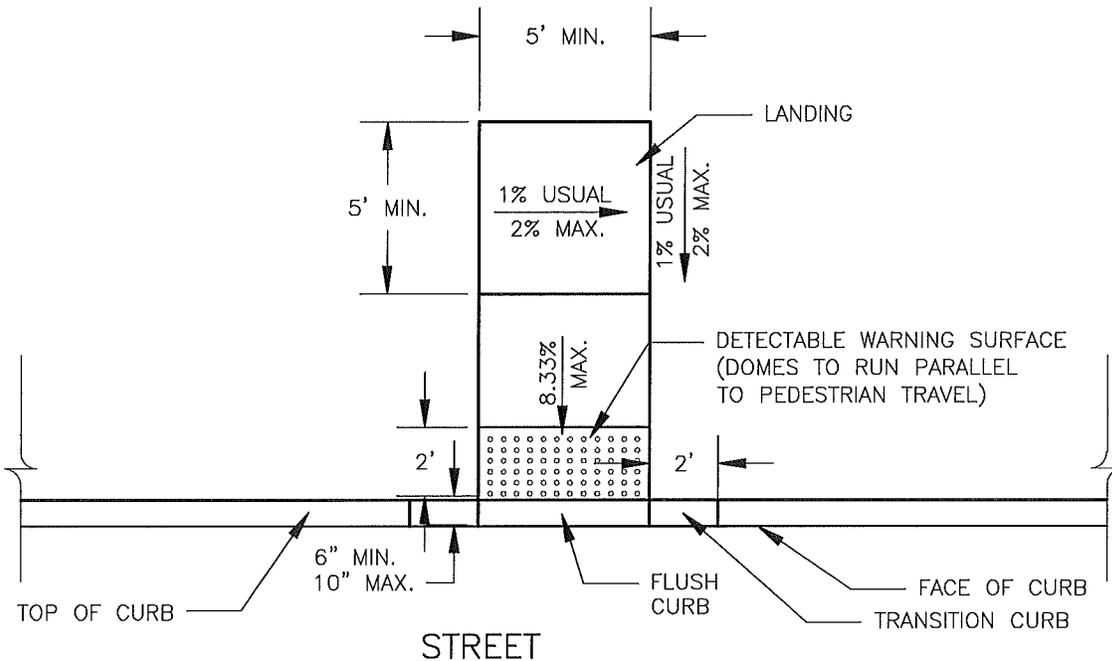
CITY OF BOERNE

SIDEWALK CURB RAMP ON RADIUS SIDEWALK AT ROW LINE

SCALE: N.T.S.	DRAWING No. 02502-4.2	DATE: JULY 2015
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CURB RAMP IN PARALLEL/ADJACENT SIDEWALK

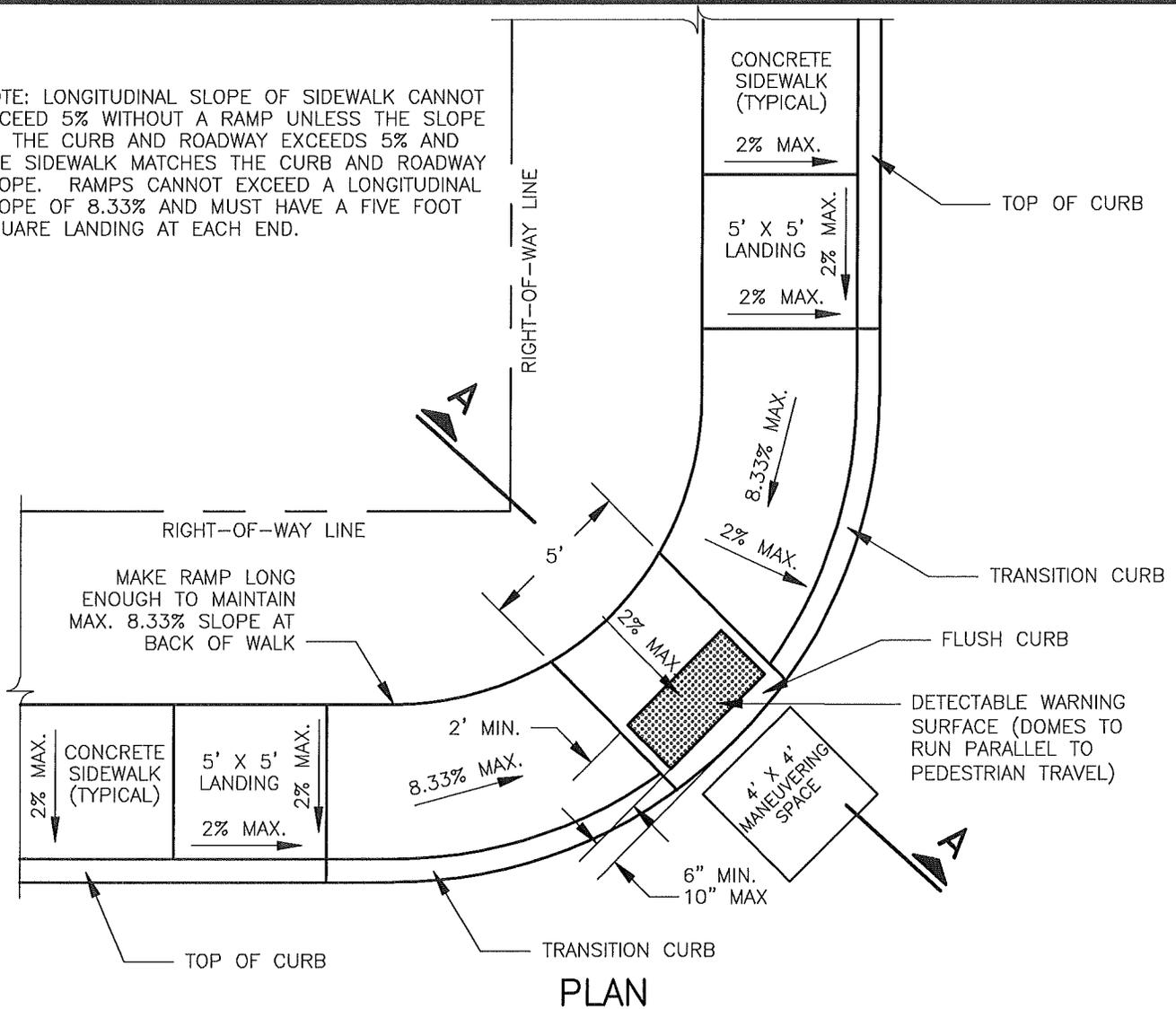


CURB RAMP IN PERPENDICULAR SIDEWALK

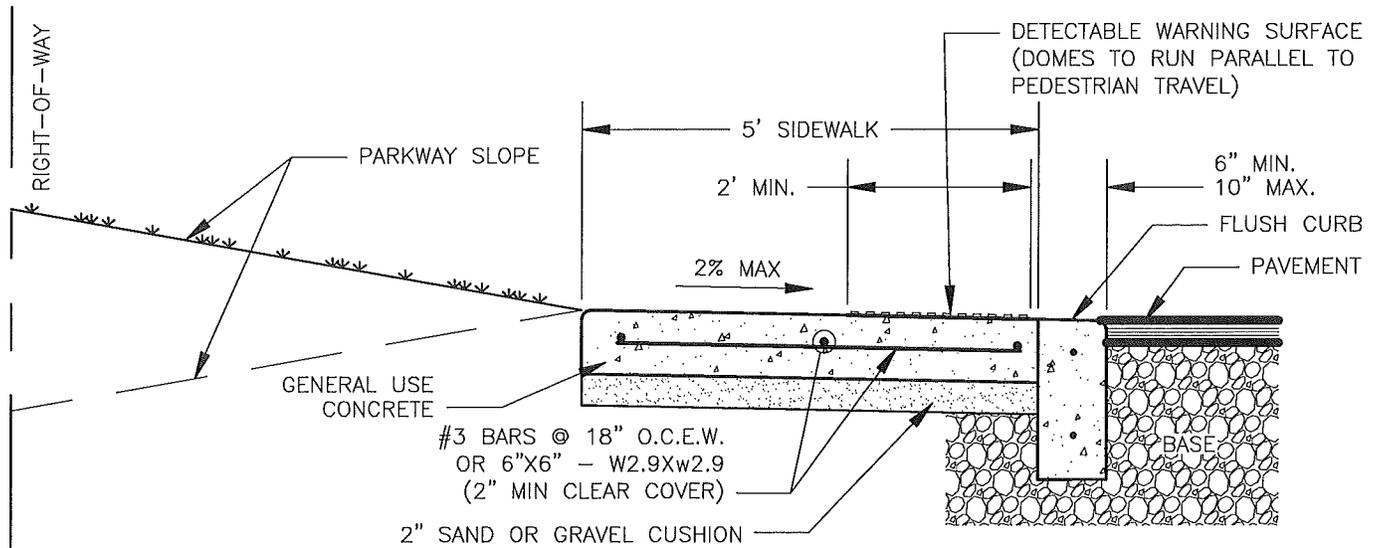
NOTE: LONGITUDINAL SLOPE OF SIDEWALK CANNOT EXCEED 5% WITHOUT A RAMP UNLESS THE SLOPE OF THE CURB AND ROADWAY EXCEEDS 5% AND THE SIDEWALK MATCHES THE CURB AND ROADWAY SLOPE. RAMP CANNOT EXCEED A LONGITUDINAL SLOPE OF 8.33% AND MUST HAVE A FIVE FOOT SQUARE LANDING AT EACH END.

CITY OF BOERNE		
SIDEWALK CURB RAMPS SIDEWALK AT CURB		
SCALE: N.T.S.	DRAWING No. 02502-4.3	DATE: JULY 2015

NOTE: LONGITUDINAL SLOPE OF SIDEWALK CANNOT EXCEED 5% WITHOUT A RAMP UNLESS THE SLOPE OF THE CURB AND ROADWAY EXCEEDS 5% AND THE SIDEWALK MATCHES THE CURB AND ROADWAY SLOPE. RAMPS CANNOT EXCEED A LONGITUDINAL SLOPE OF 8.33% AND MUST HAVE A FIVE FOOT SQUARE LANDING AT EACH END.



PLAN

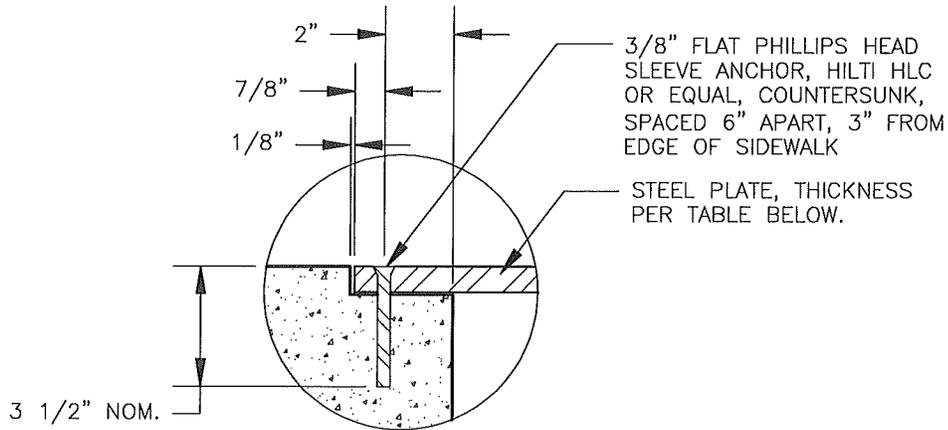


SECTION A-A

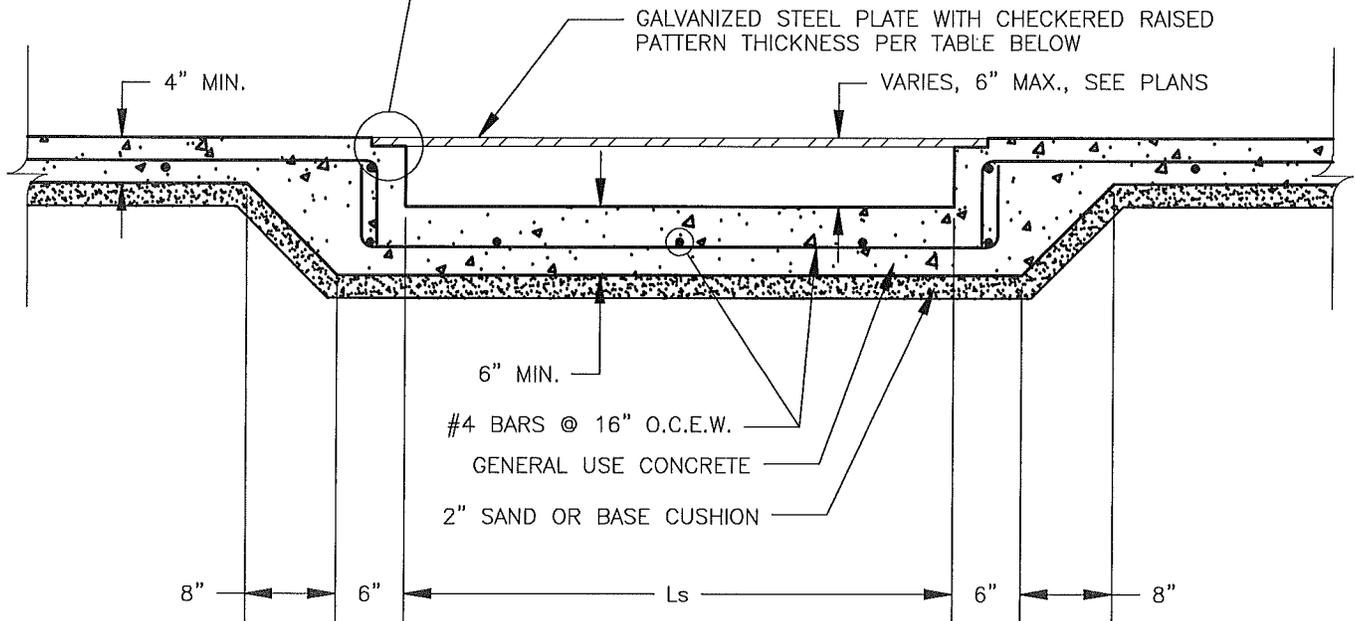
CITY OF BOERNE

**SIDEWALK CURB RAMP ON RADIUS
SIDEWALK AT CURB**

SCALE: N.T.S.	DRAWING No. 02502-4.4	DATE: JULY 2015
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DETAIL



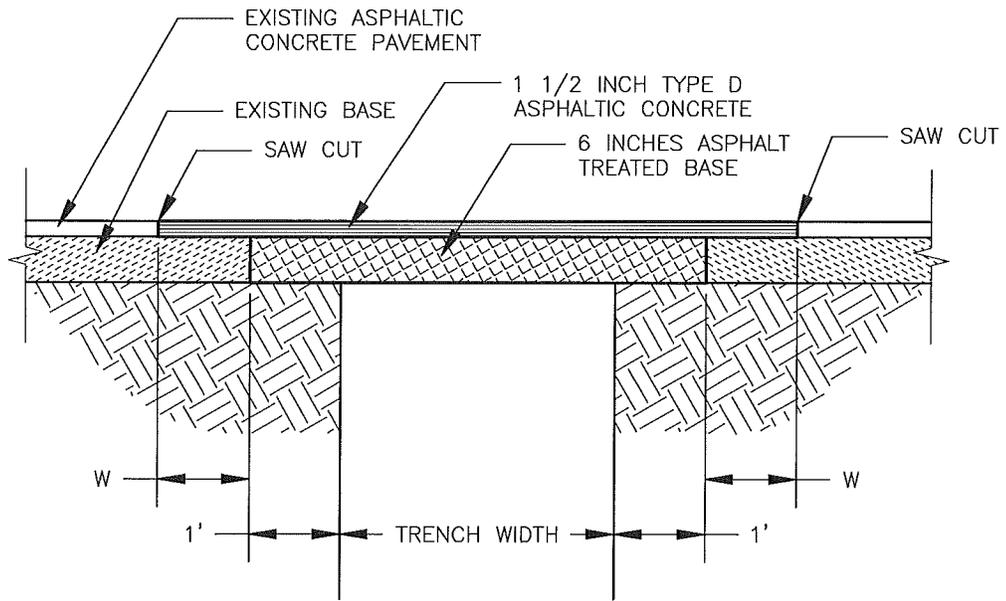
STEEL PLATE

THICKNESS	Ls
3/8"	0' - 2'
1/2"	2' - 3'
5/8"	3' - 4'
3/4"	4' - 5'

CITY OF BOERNE

SIDEWALK UNDERDRAIN

SCALE: N.T.S.	DRAWING No. 02502-4.5	DATE: JULY 2015
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PCI RANGE	ADDITIONAL WIDTH OF ASPHALT REPAIR
PCI<50	W=1'
50≤PCI<85	W=10' and CURB-TO-CURB
85≤PCI≤100	CURB-TO-CURB and BLOCK-TO-BLOCK

CITY OF BOERNE

ASPHALTIC CONCRETE PAVEMENT REPAIR

SCALE:

N.T.S.

DRAWING No.

02513-1.1

DATE:

JULY 2015