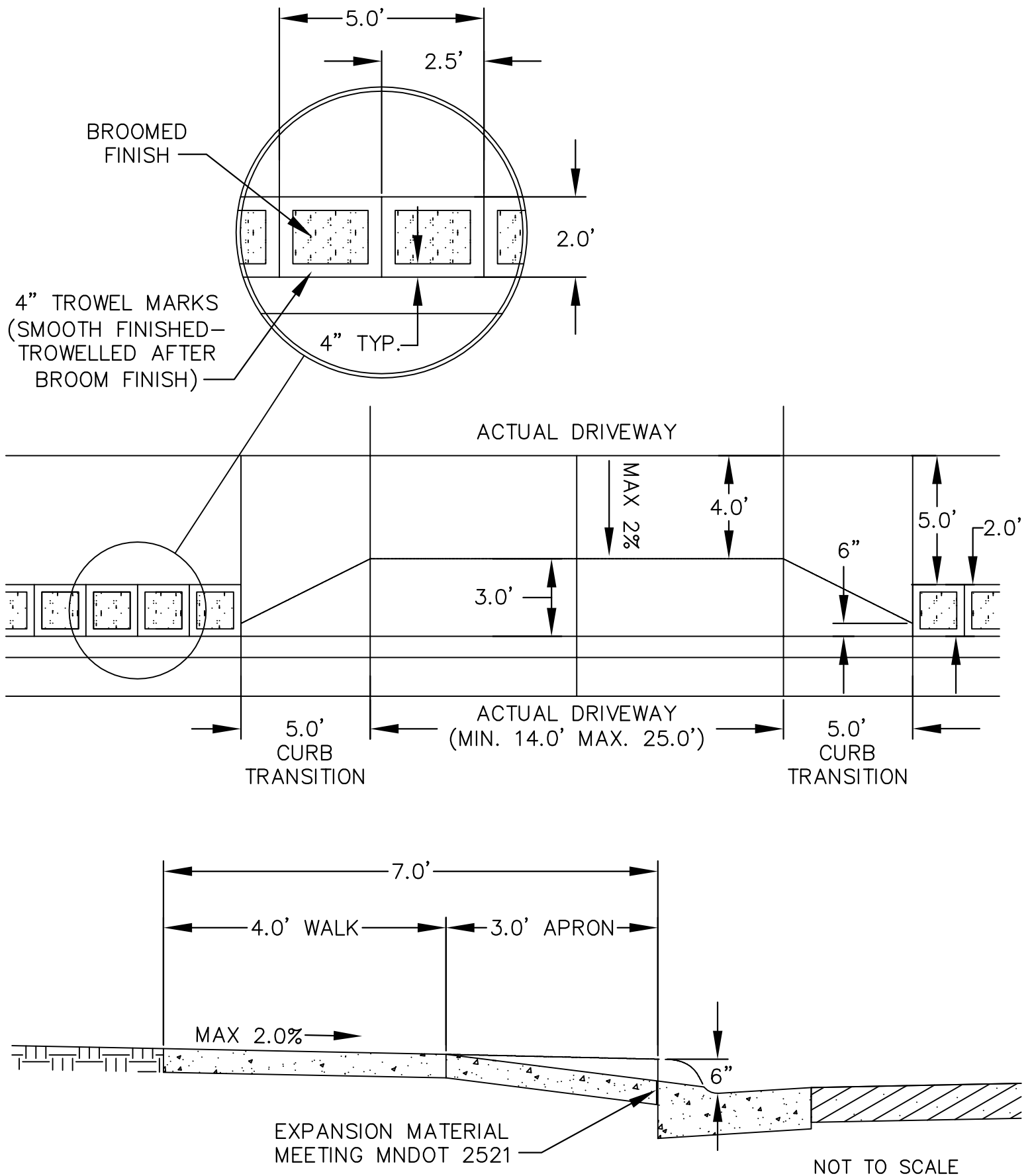




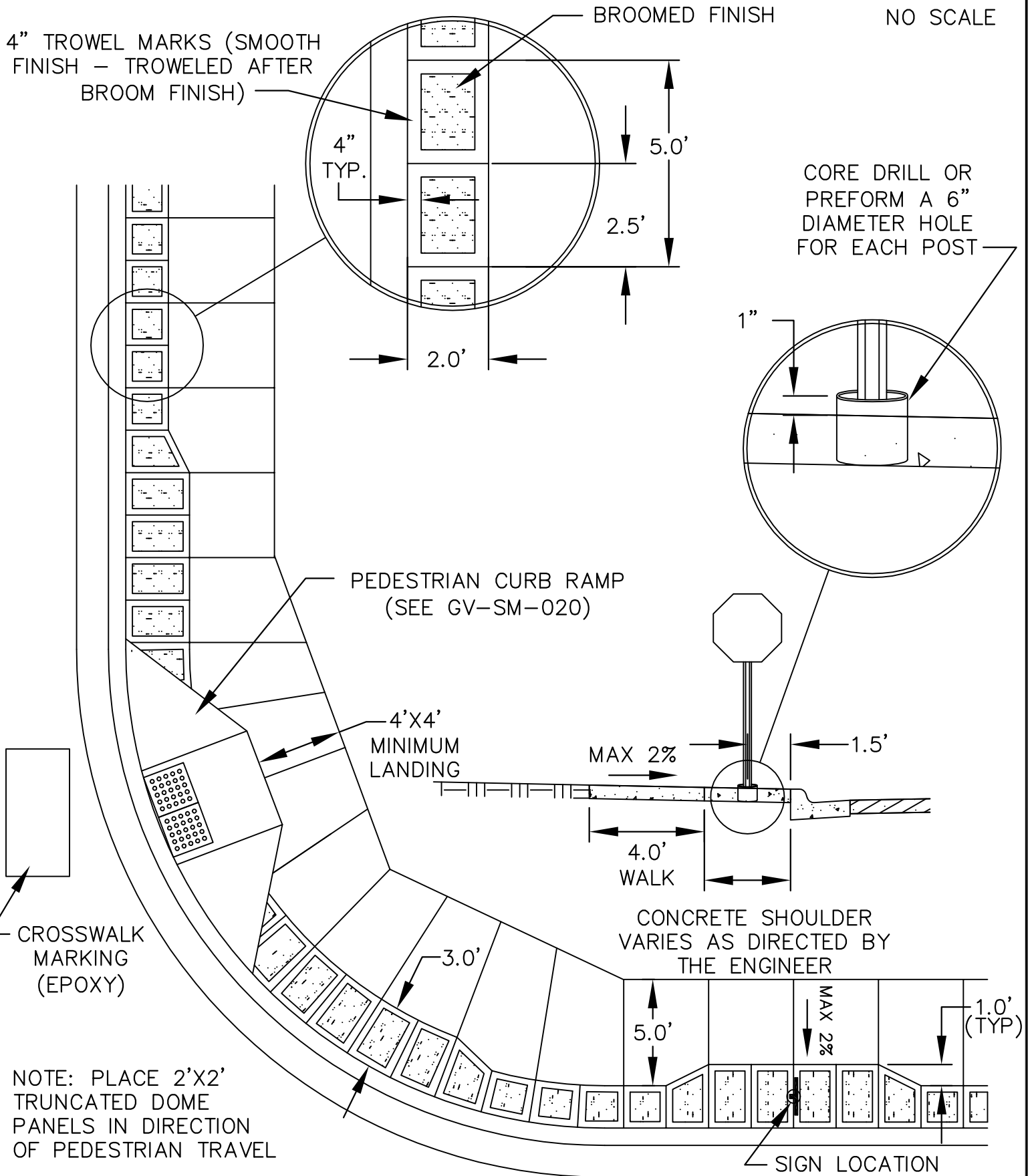
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**SIDEWALK WITH 2'
CONCRETE SHOULDER
(AT DRIVEWAY)**

City of
Golden Valley
GV-STRT-010



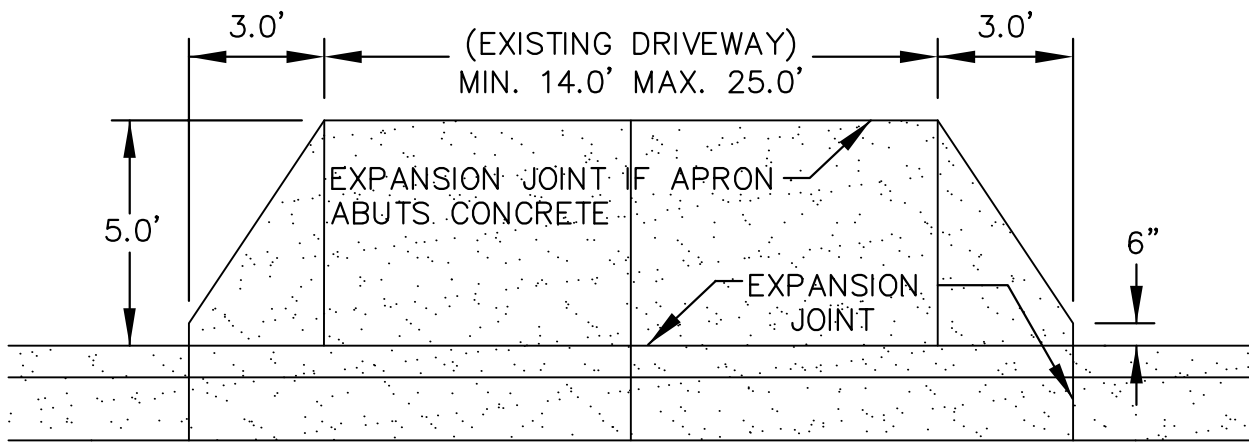
APPROVED JANUARY 1, 2018

[Signature]

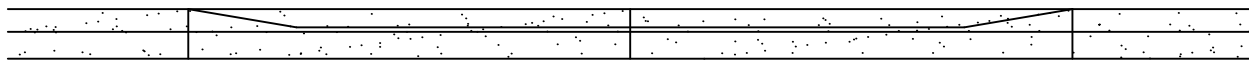
CITY ENGINEER REG 23110

**SIDEWALK WITH 2'
CONCRETE SHOULDER**

City of
Golden Valley
GV-STRT-020



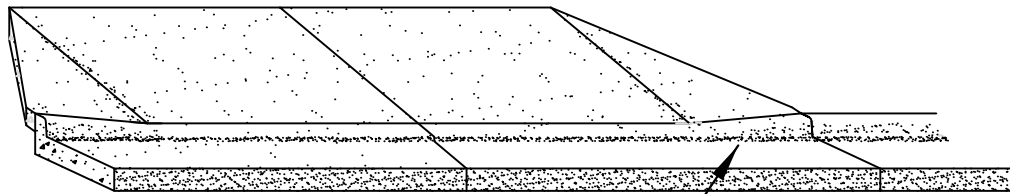
TOP VIEW



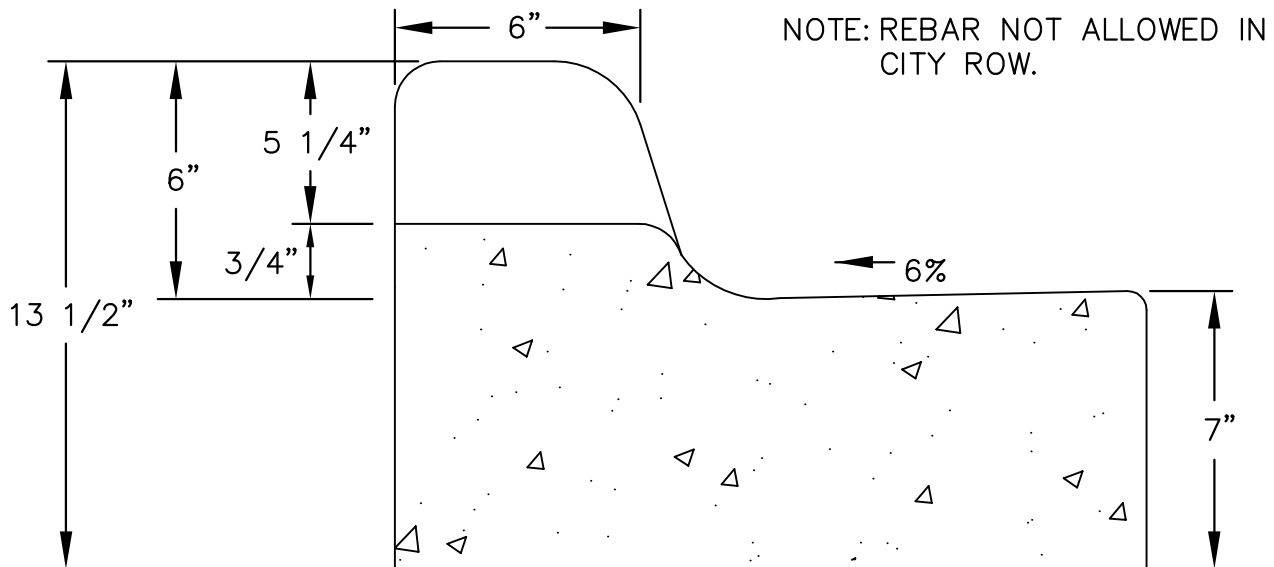
PROFILE VIEW

3.0' CURB
TAPER

3.0' CURB
TAPER



DROP CURB AT DRIVEWAYS



DROP CURB AT DRIVEWAY OPENINGS.
(TRANSITION TO BE MADE IN 3.0'.)

NOT TO SCALE

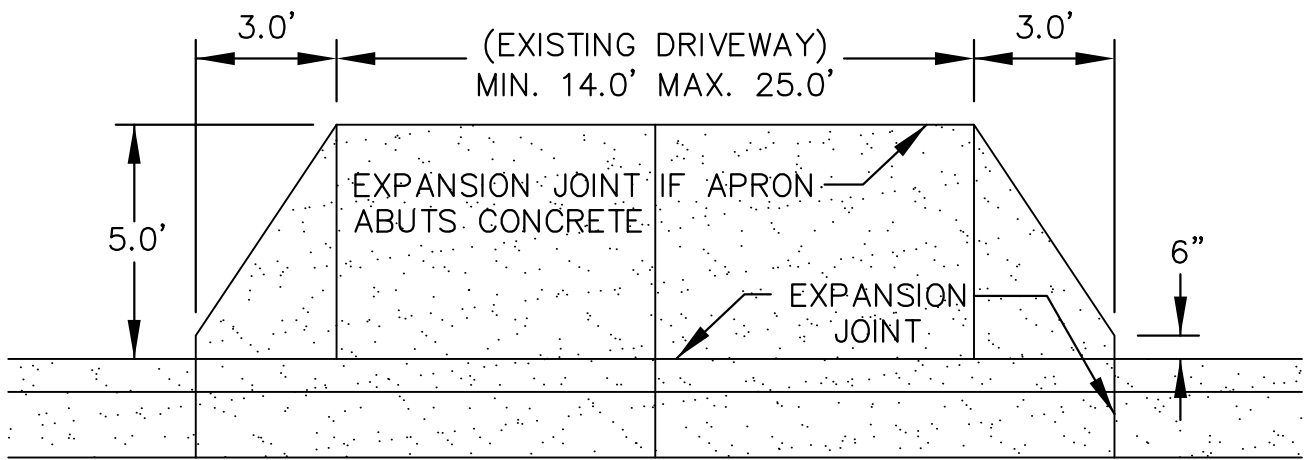
APPROVED JANUARY 1, 2018

[Signature]

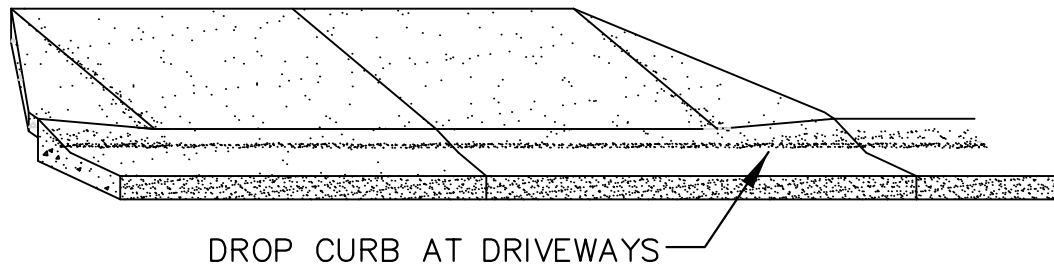
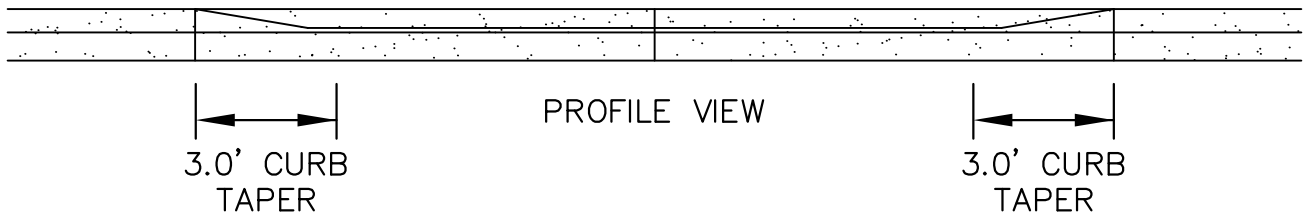
CITY ENGINEER REG 23110

**DRIVEWAY APPROACH
WITH CONCRETE APRON
(B618)**

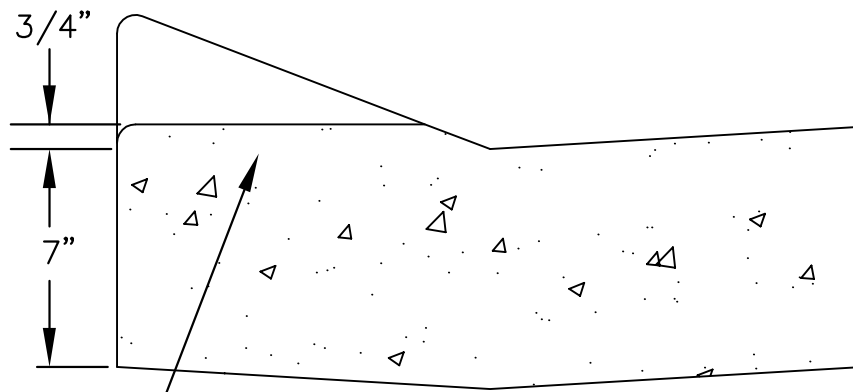
City of
Golden Valley
GV-STRT-030



TOP VIEW



NOTE: REBAR NOT ALLOWED IN
CITY ROW.



APPROVED JANUARY 1, 2018

[Signature]

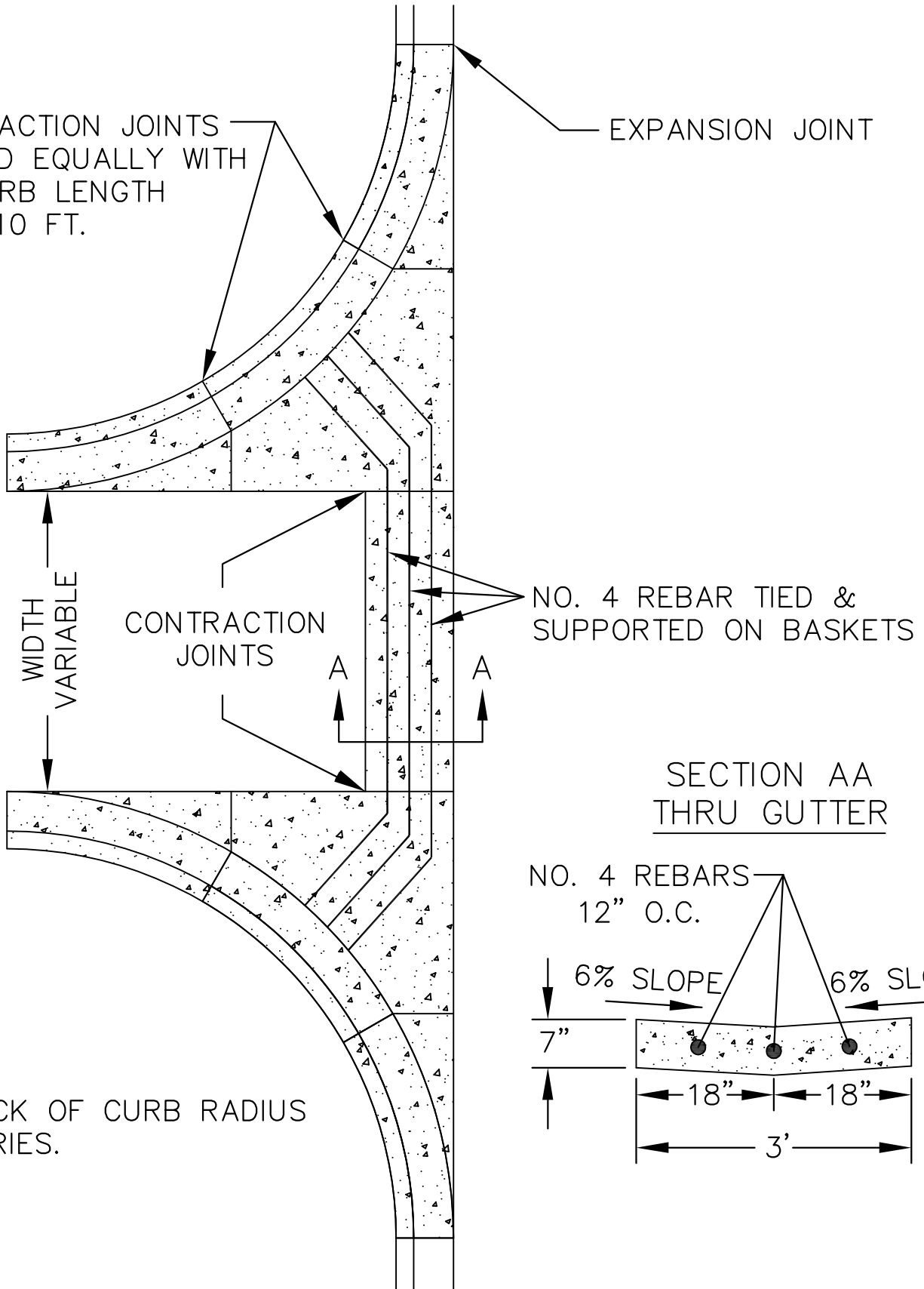
CITY ENGINEER REG 23110

**DRIVEWAY APPROACH
WITH CONCRETE
APRON (D412)**

City of
Golden Valley
GV-STRT-040

CONTRACTION JOINTS
SPACED EQUALLY WITH
NO CURB LENGTH
OVER 10 FT.

EXPANSION JOINT



APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**COMMERCIAL CROSS
GUTTER DRIVEWAY
H-PATTERN**

City of
Golden Valley
GV-STRT-050

CONTRACTION JOINTS
SPACED EQUALLY WITH
NO CURB LENGTH
OVER 10 FT.

EXPANSION JOINT
(TYP.)

3 NO. 4 EPOXY COATED REINFORCING
RODS CONTINUOUS IN CROSS GUTTER
FROM EXPANSION JOINT TO EXPANSION JOINT.

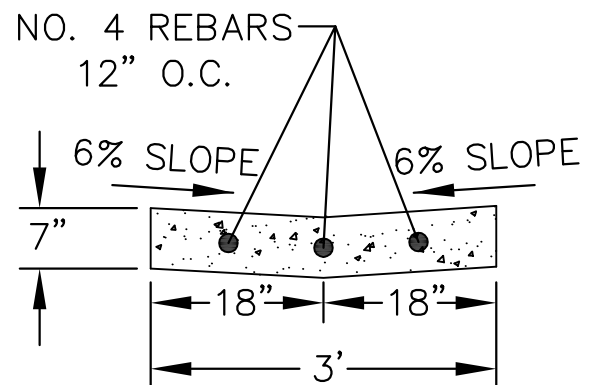
WIDTH
VARIABLE

CONTRACTION
JOINTS
(TYP.)

A A

BACK OF CURB RADIUS
VARIES.

SECTION AA
THRU GUTTER

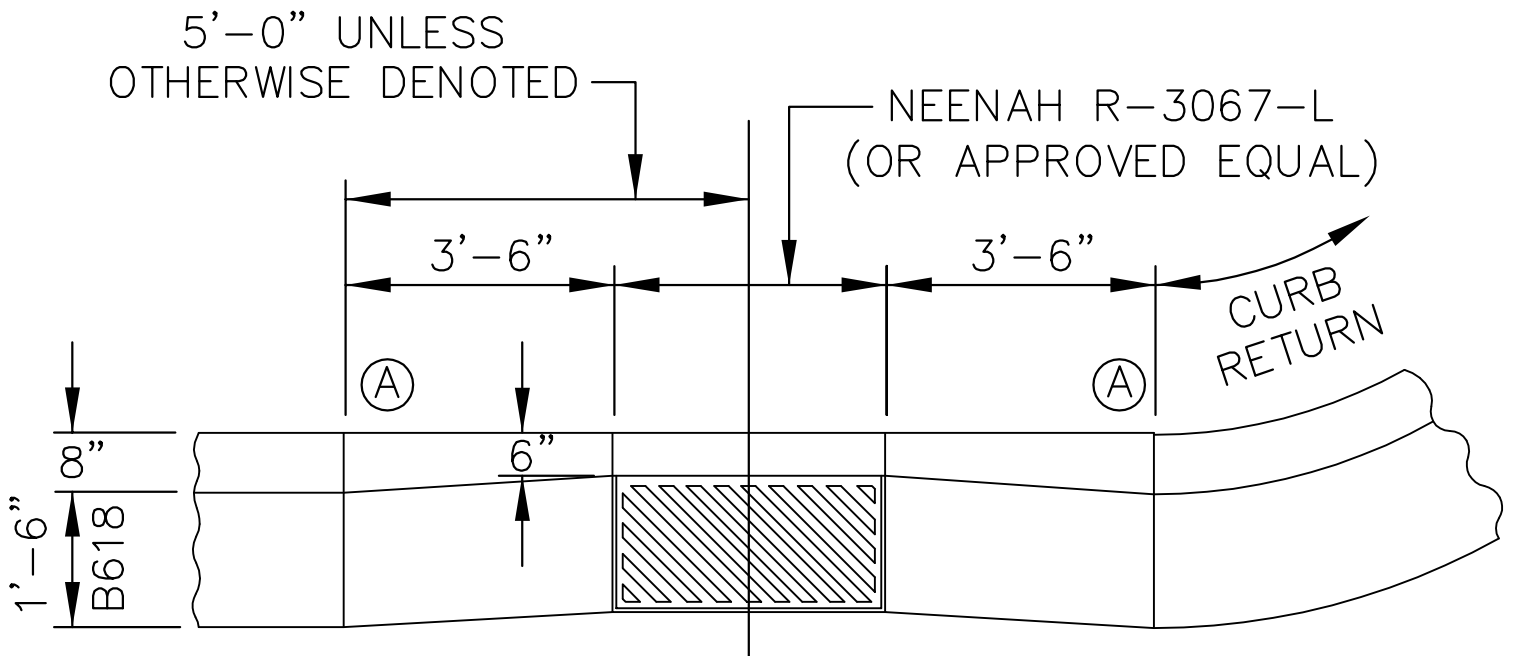


APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

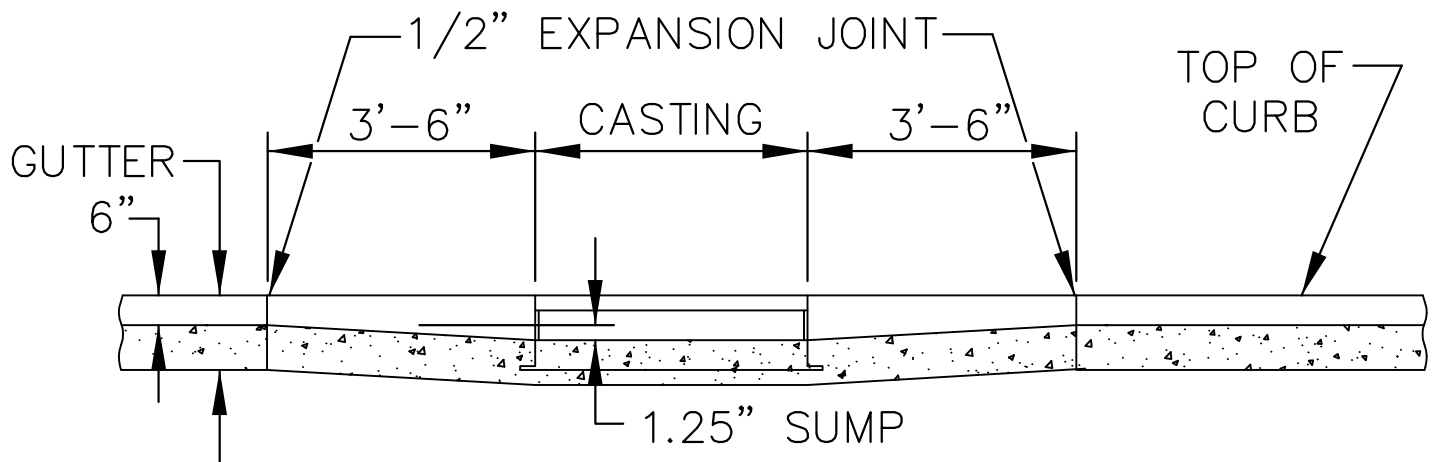
**COMMERCIAL CROSS
GUTTER DRIVEWAY**

City of
Golden Valley
GV-STRT-060



Ⓐ TAPER CONC. CURB & GUTTER
TO MATCH CASTING

PLAN VIEW



SECTION

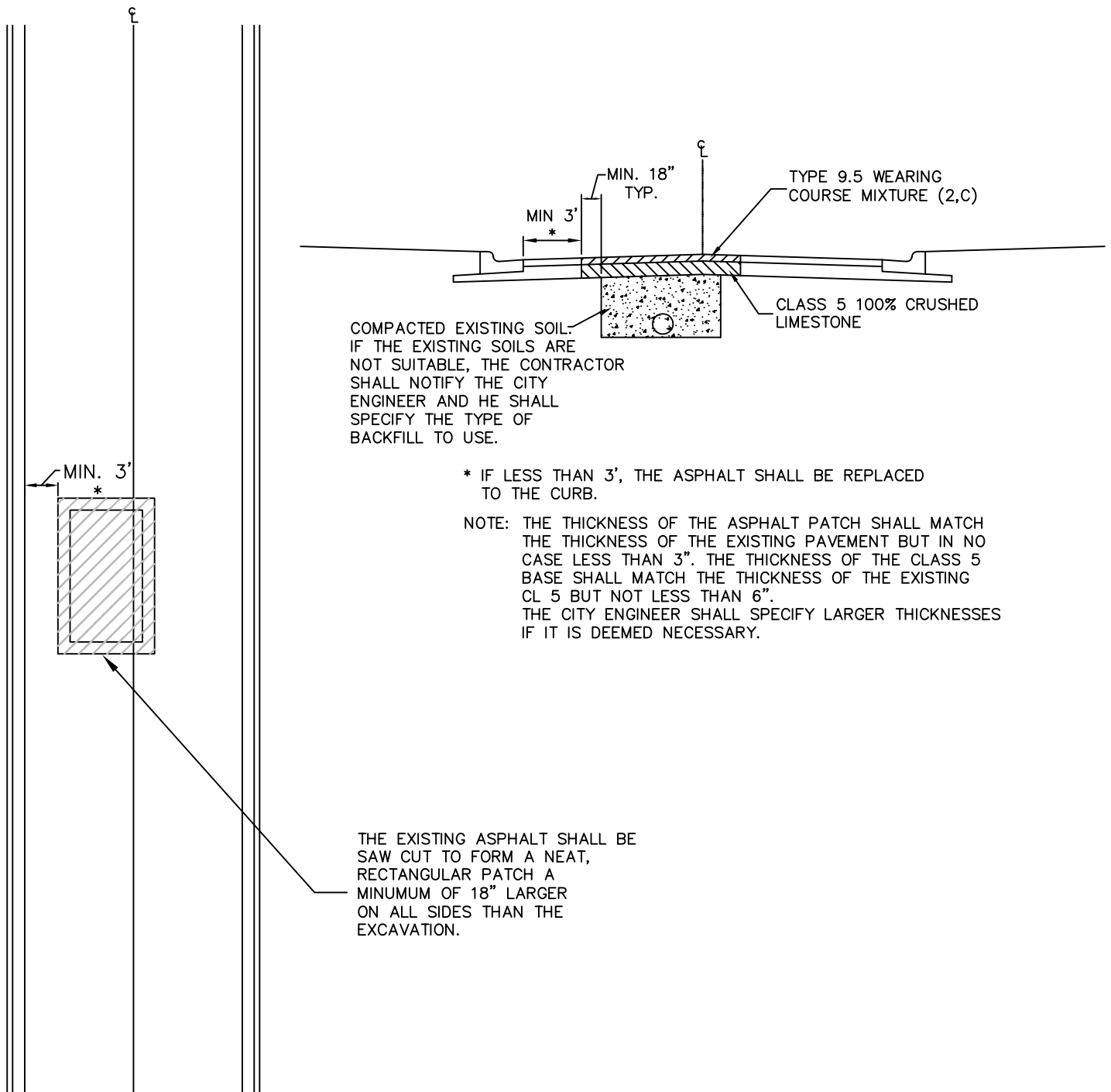
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**CATCH BASIN
INSTALLATION FOR
B618 CURB & GUTTER**

City of
Golden Valley
GV-STRT-070



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE TOP OF THE CLASS 5 AND BEFORE PLACEMENT OF ASPHALT.

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

TWO SOIL DENSITY TESTS MUST BE PERFORMED; ONE IN THE UPPER 3' AND ONE BELOW

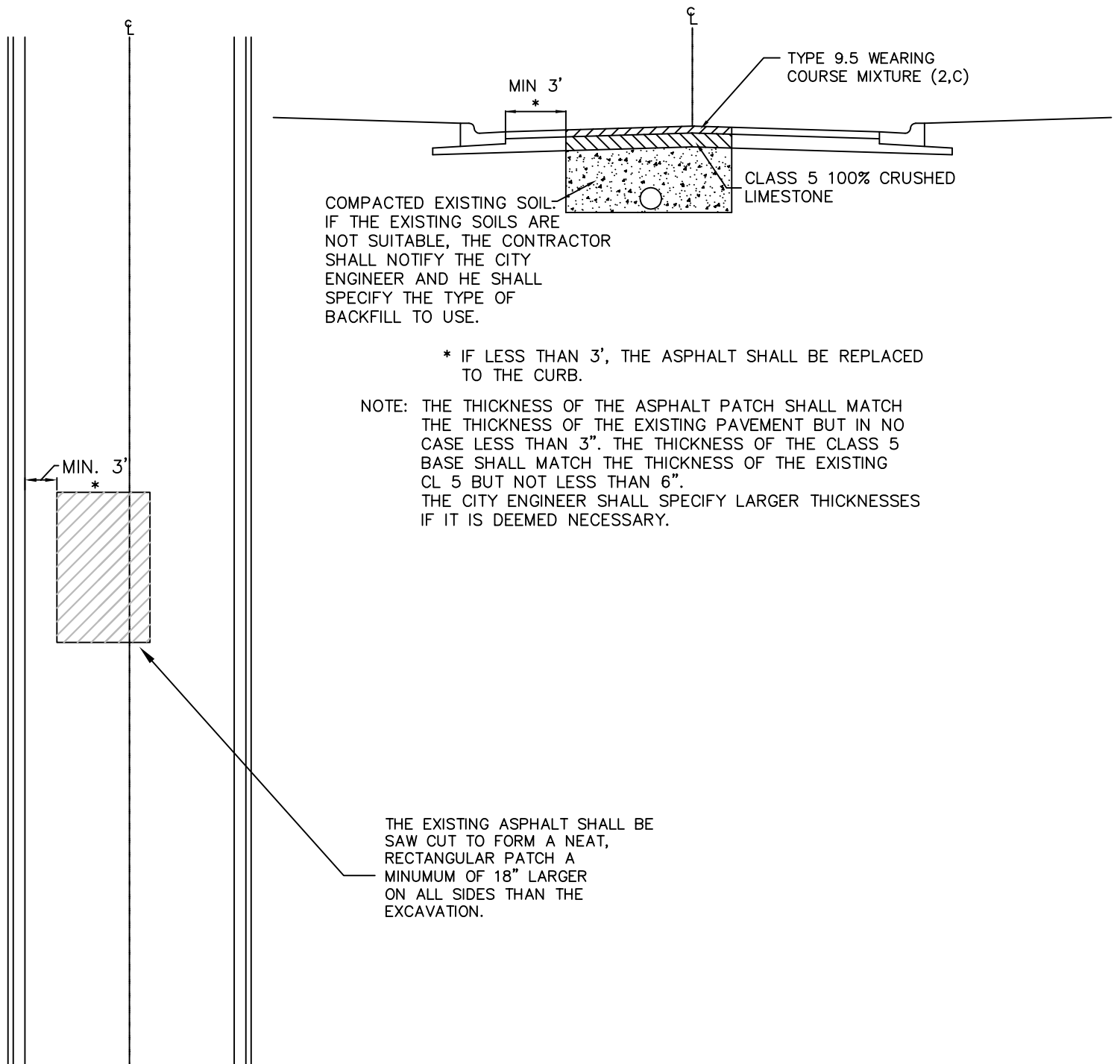
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**TYPE A UTILITY PATCH
IMPROVED STREET**

City of
Golden Valley
GV-STRT-080



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE TOP OF THE CLASS 5 AND BEFORE PLACEMENT OF ASPHALT.

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

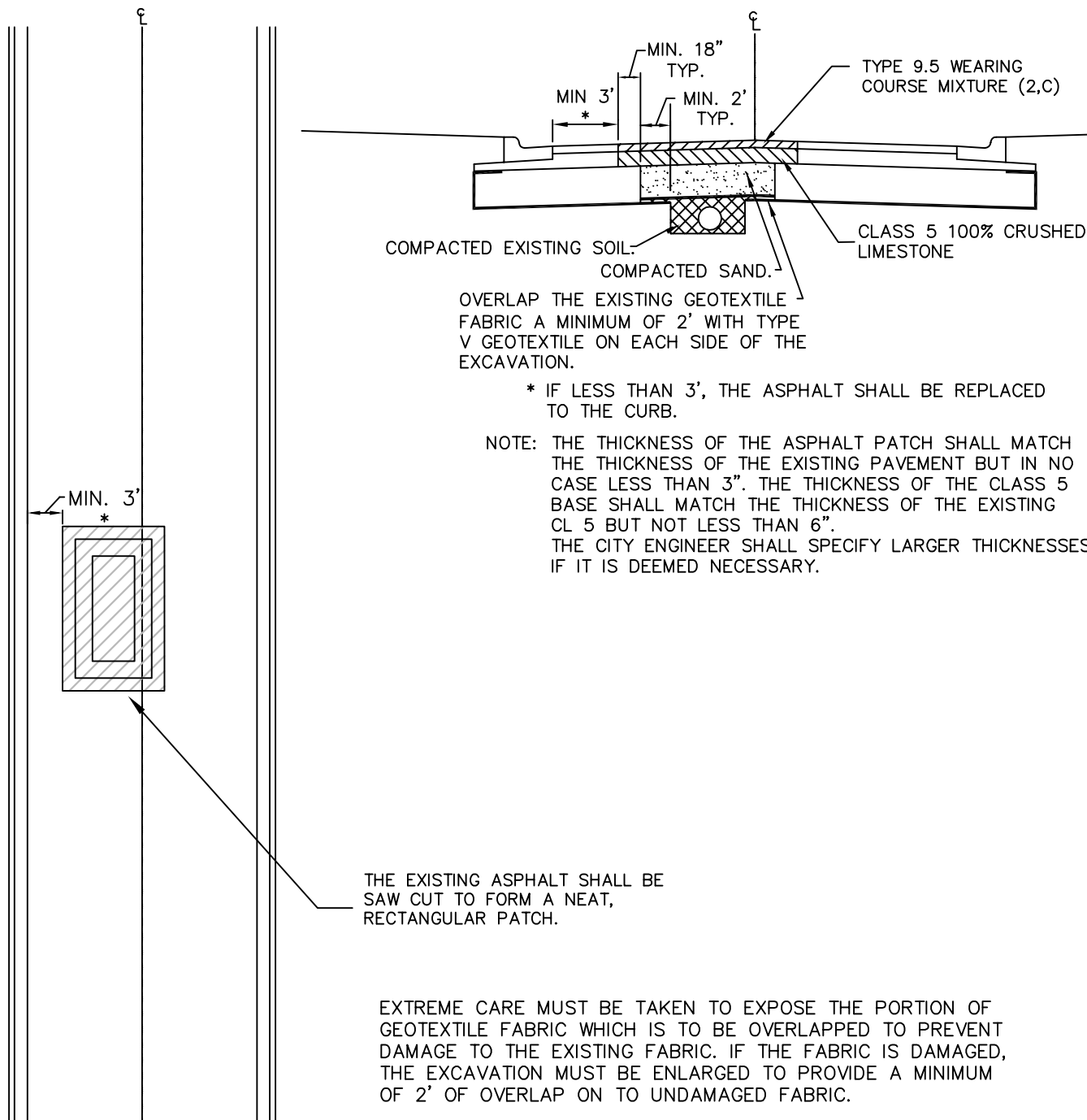
TWO SOIL DENSITY TESTS MUST BE PERFORMED; ONE IN THE UPPER 3' AND ONE BELOW THE UPPER 3'.

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**TYPE B UTILITY PATCH
UNIMPROVED STREET**

City of
Golden Valley
GV-STRT-090



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE EXISTING GEOTEXTILE FABRIC AND BEFORE PLACEMENT OF SAND AND ALSO WHEN IT IS FILLED TO THE TOP OF THE CLASS 5, BEFORE

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

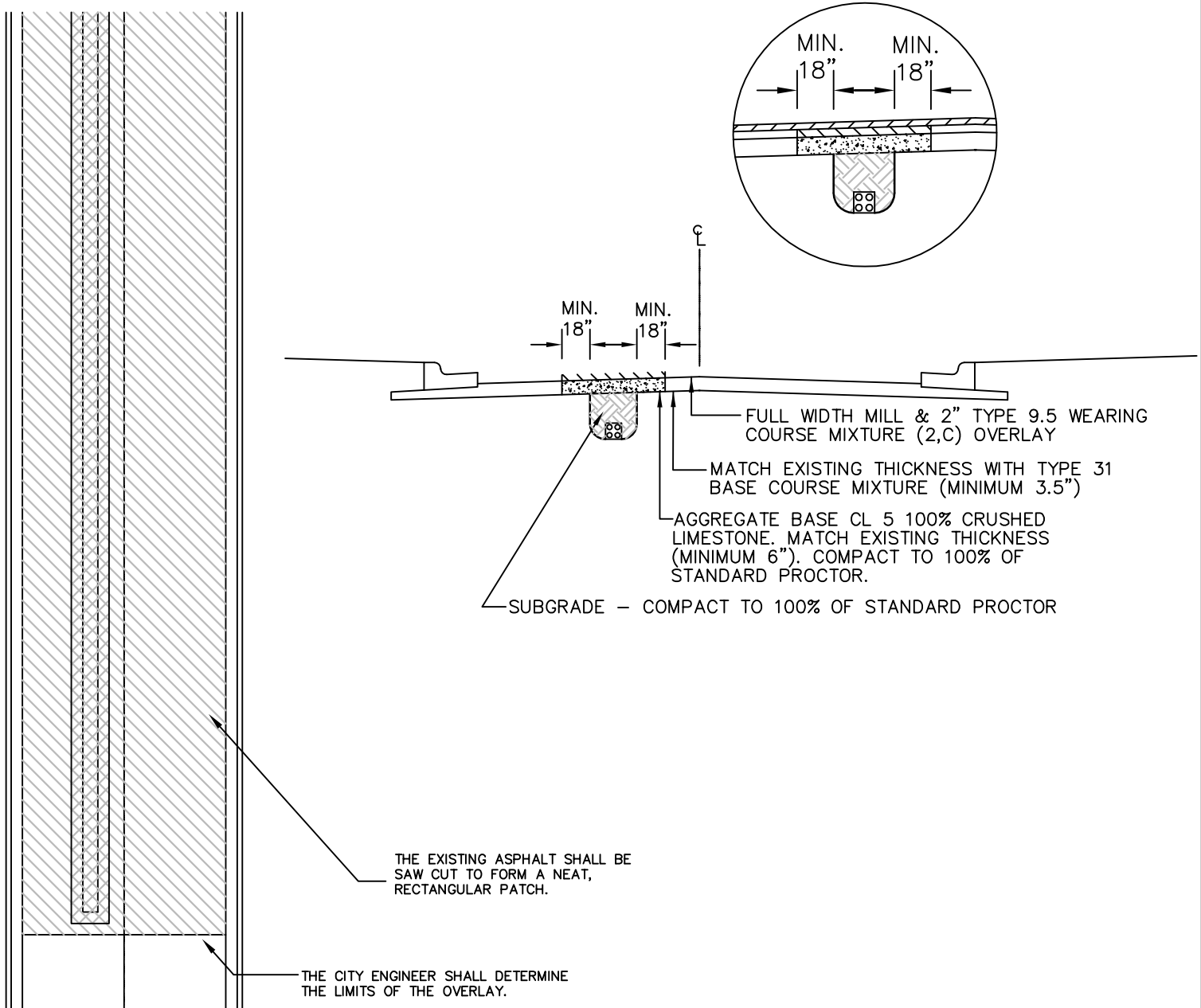
TWO SOIL DENSITY TESTS MUST BE PERFORMED; ONE IN THE UPPER 3' AND ONE BELOW

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

TYPE C UTILITY PATCH IMPROVED STREET WITH GEOTEXTILE FABRIC

City of
Golden Valley
GV-STRT-100



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE TOP OF THE CLASS 5 AND BEFORE PLACEMENT OF ASPHALT. ALSO WHEN THE EXISTING ASPHALT HAS BEEN MILLED AND READY FOR THE PLACEMENT OF THE ASPHALT WEAR COURSE.

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

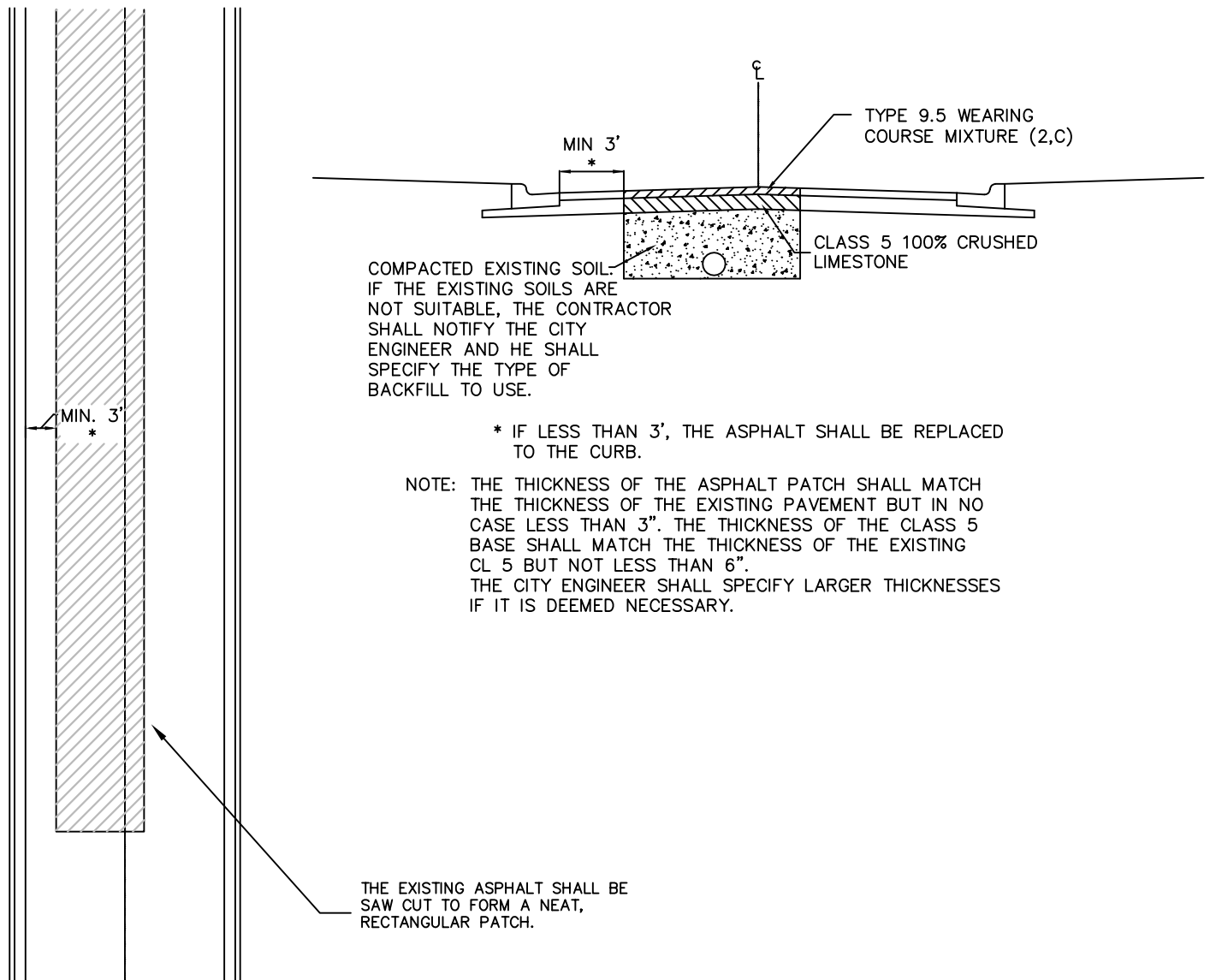
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**TYPE D UTILITY PATCH
IMPROVED STREET**

City of
Golden Valley
GV-STRT-110



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE TOP OF THE CLASS 5 AND BEFORE PLACEMENT OF ASPHALT.

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

TWO SOIL DENSITY TESTS MUST BE PERFORMED; ONE IN THE UPPER 3' AND ONE BELOW

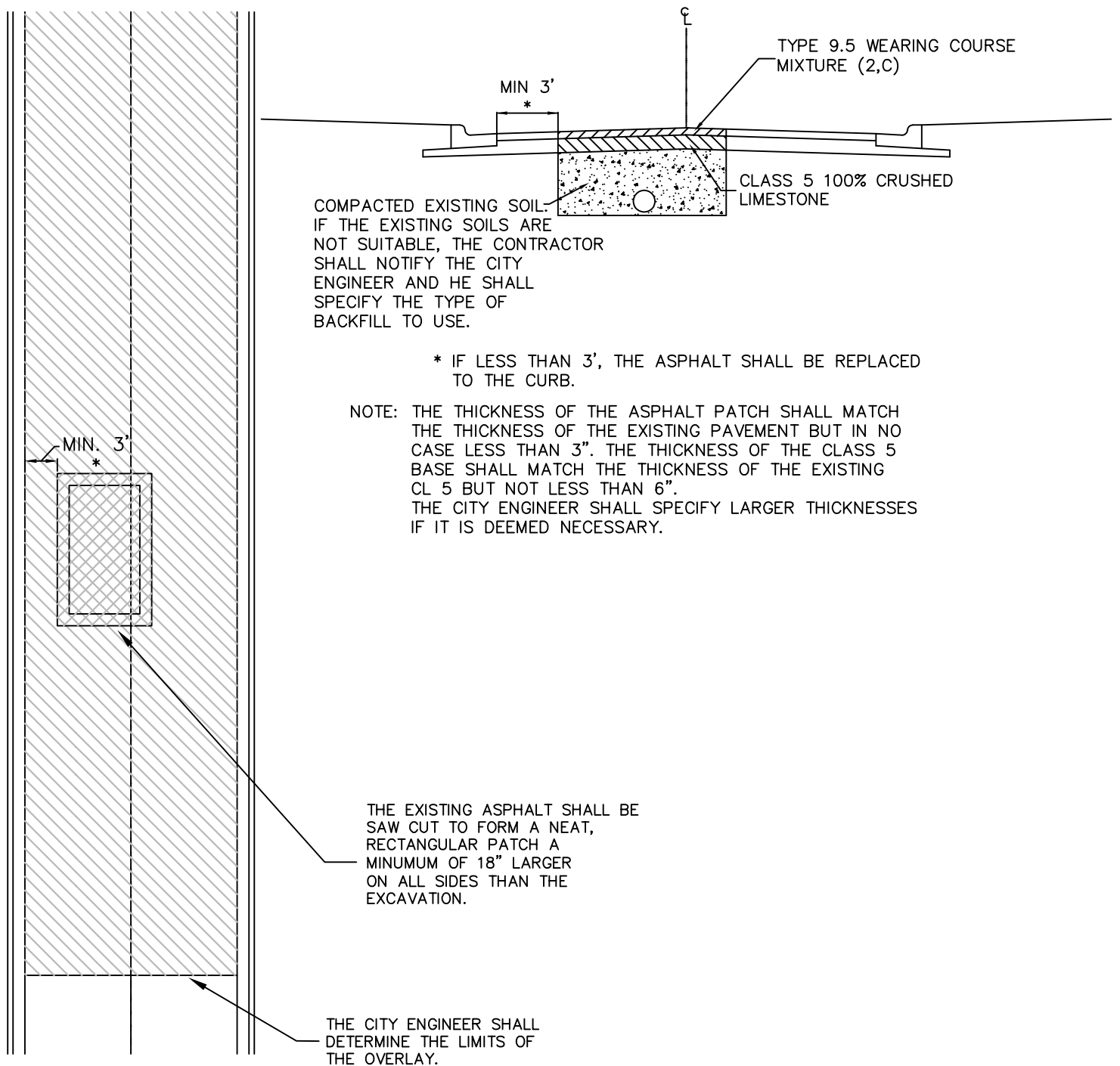
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**TYPE E UTILITY PATCH
UNIMPROVED STREET**

City of
Golden Valley
GV-STRT-120



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE TOP OF THE CLASS 5 AND BEFORE PLACEMENT OF ASPHALT.

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

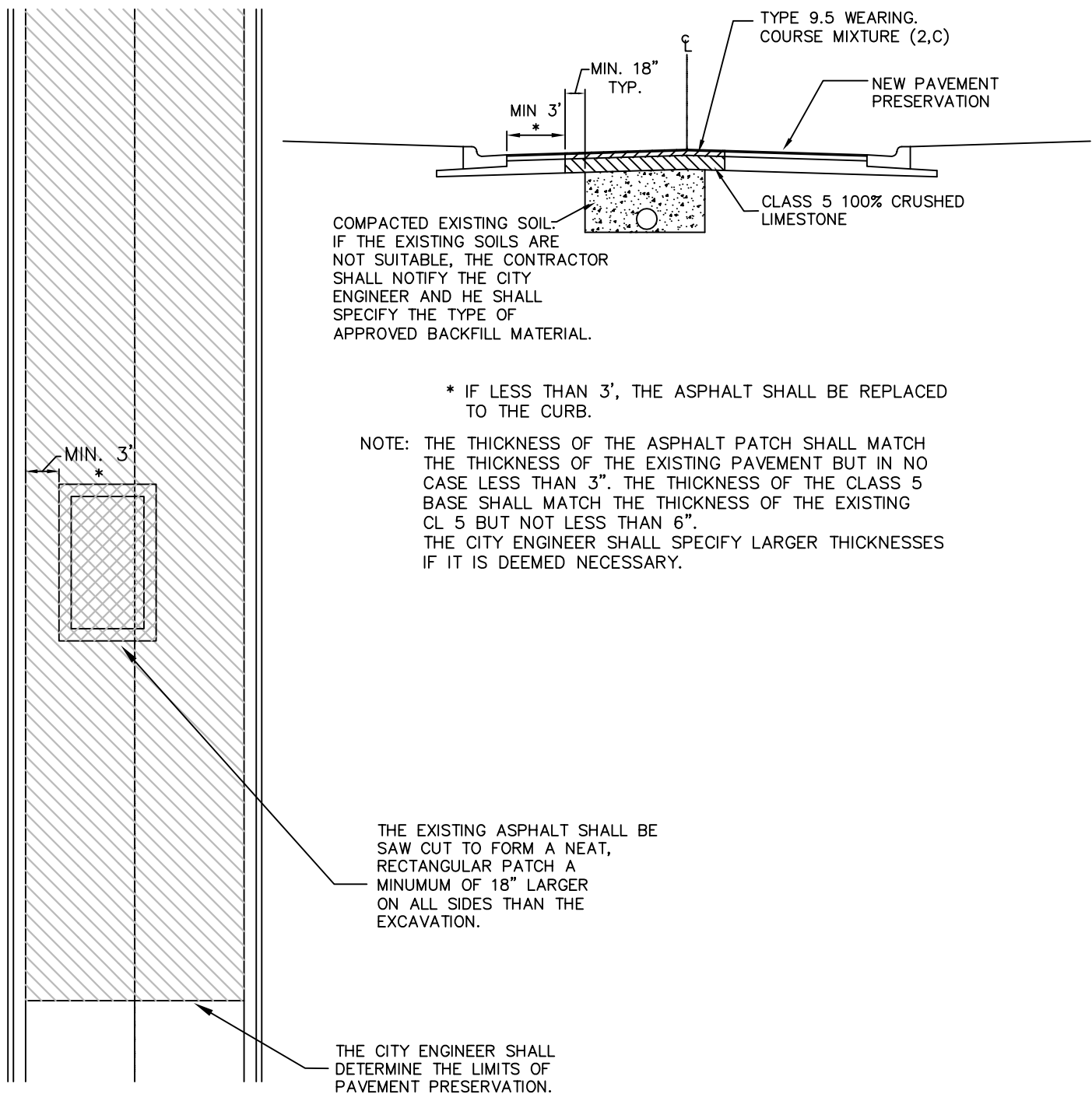
TWO SOIL DENSITY TESTS MUST BE PERFORMED; ONE IN THE UPPER 3' AND ONE BELOW THE UPPER 3'.

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**TYPE G UTILITY PATCH
IMPROVED STREET 0-5 YRS
MILL AND OVERLAY**

City of
Golden Valley
GV-STRT-130



EXCAVATIONS SHALL BE COMPACTED IN NO GREATER THAN 6" LIFTS.

AN INSPECTION BY THE CITY IS REQUIRED WHEN THE EXCAVATION HAS BEEN FILLED TO THE TOP OF THE CLASS 5 AND BEFORE PLACEMENT OF ASPHALT.

THE CONTRACTOR SHALL PROVIDE A SOIL DENSITY TEST ON THE COMPACTED SOILS FROM A TESTING COMPANY APPROVED BY THE CITY. TEST MUST BE IN COMPLIANCE WITH THE CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

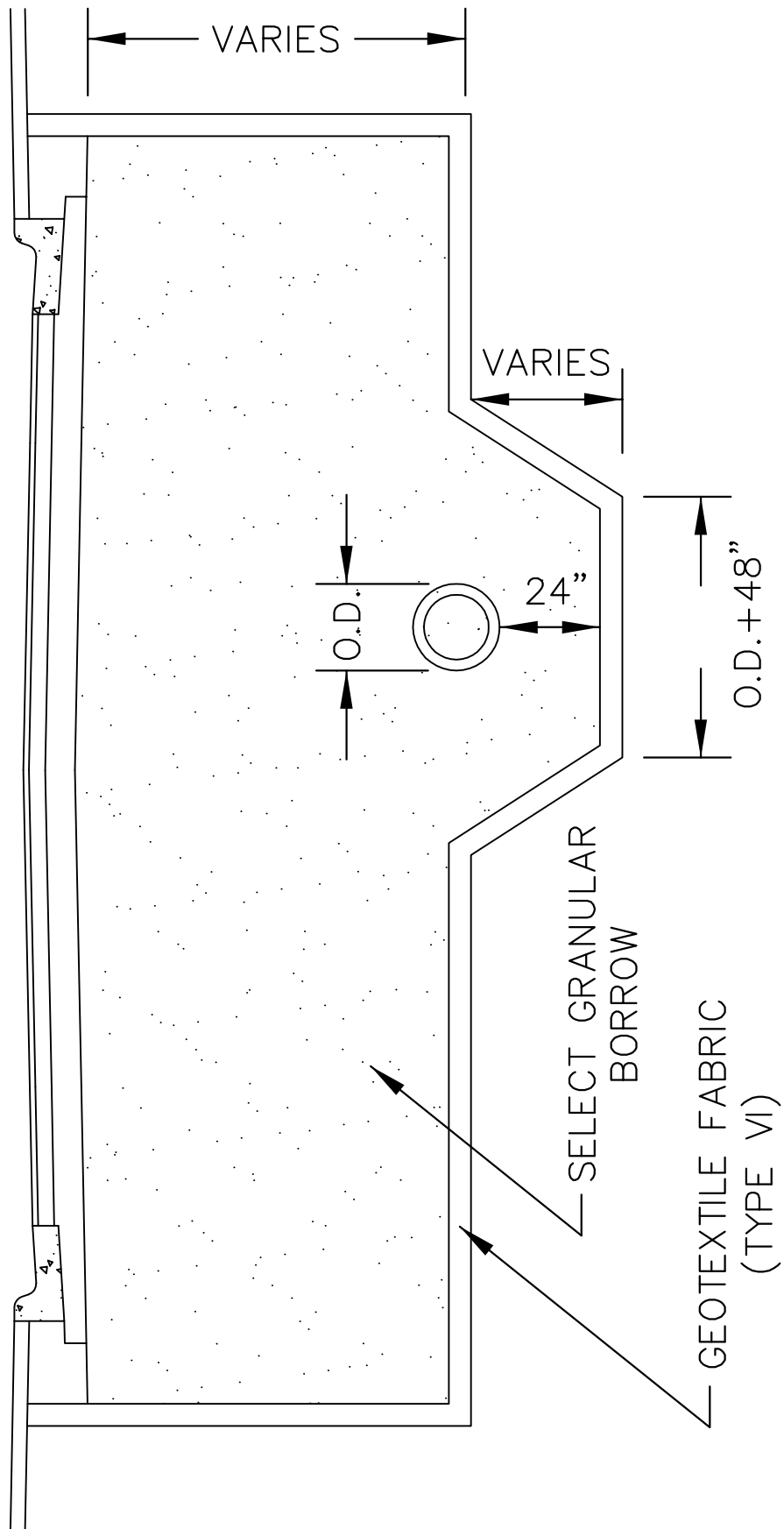
TWO SOIL DENSITY TESTS MUST BE PERFORMED; ONE IN THE UPPER 3' AND ONE BELOW THE UPPER 3'.

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**TYPE H UTILITY PATCH
IMPROVED STREET 5-10 YRS
PAVEMENT PRESERVATION**

City of
Golden Valley
GV-STRT-140



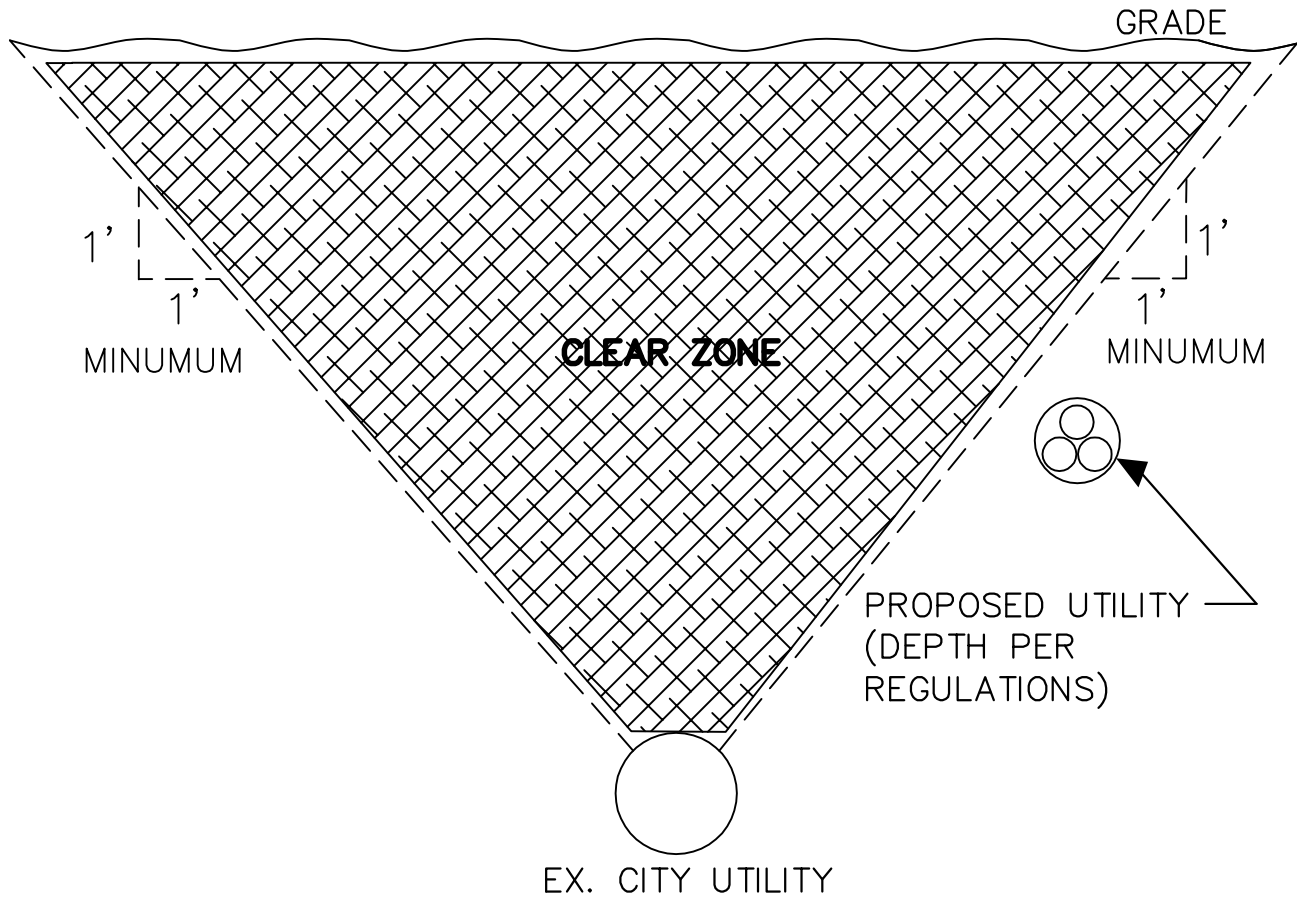
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**SPECIAL EXCAVATION
FOR UTILITIES
WITHIN SUBCUT**

City of
Golden Valley
GV-STRT-150



NO PRIVATE FACILITIES ARE ALLOWED TO
RUN PARALLEL TO PUBLIC FACILITIES IN
THE CLEAR ZONE SHOWN ABOVE

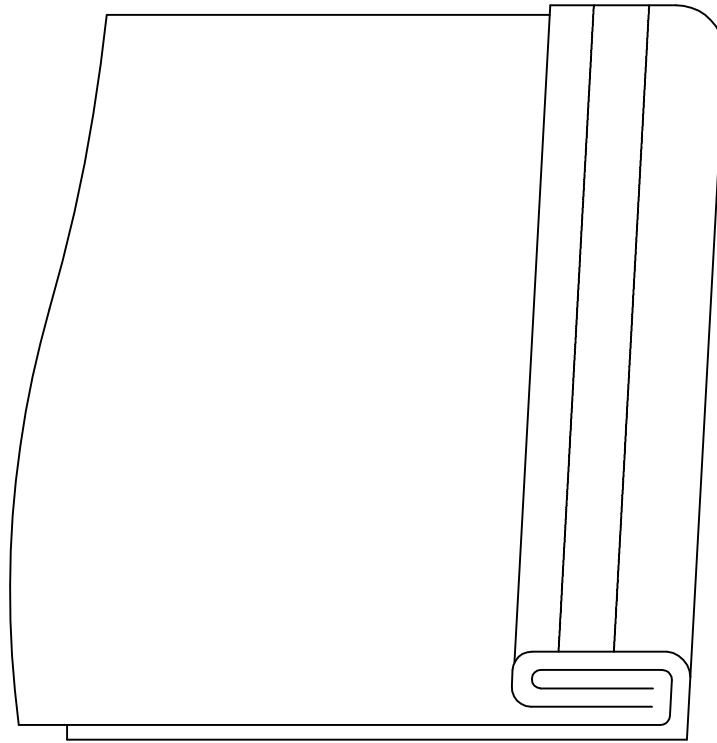
NOTE:
MINIMUM
SEPARATION
1:1
RISE: RUN

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

STANDARD UTILITY SEPARATION

City
Golden Valley
GV-STRT-160



FOR USE WITH TYPE V
GEOTEXTILE FABRIC

THIS SEAM TYPE REQUIRES THE MATING OF TWO PARALLEL SECTIONS OF GEOTEXTILE WHICH ARE THEN TURNED TWICE IN THE SAME DIRECTION (HENCE "DOUBLE J") TO CREATE A THICKNESS OF 6 PLIES WHICH IS THEN SEWN WITH 2 ROWS OF STITCHES. THIS SEAM ALSO ENCAPSULATES THE SELVAGE SO THAT IT CANNOT BE USED AS A STITCHING SURFACE.

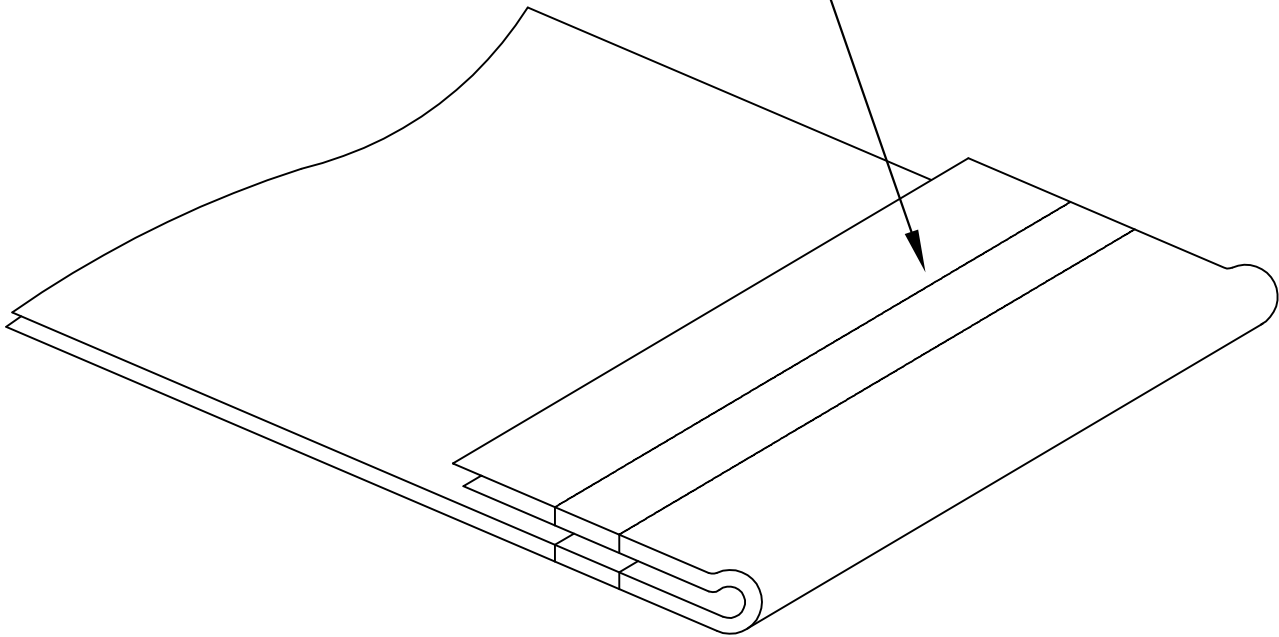
APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**GEOTEXTILE
"DOUBLE J"
SEAM**

City of
Golden Valley
GV-STRT-170

TWO ROWS OF
STICHES REQUIRED



SEWN "J" SEAM

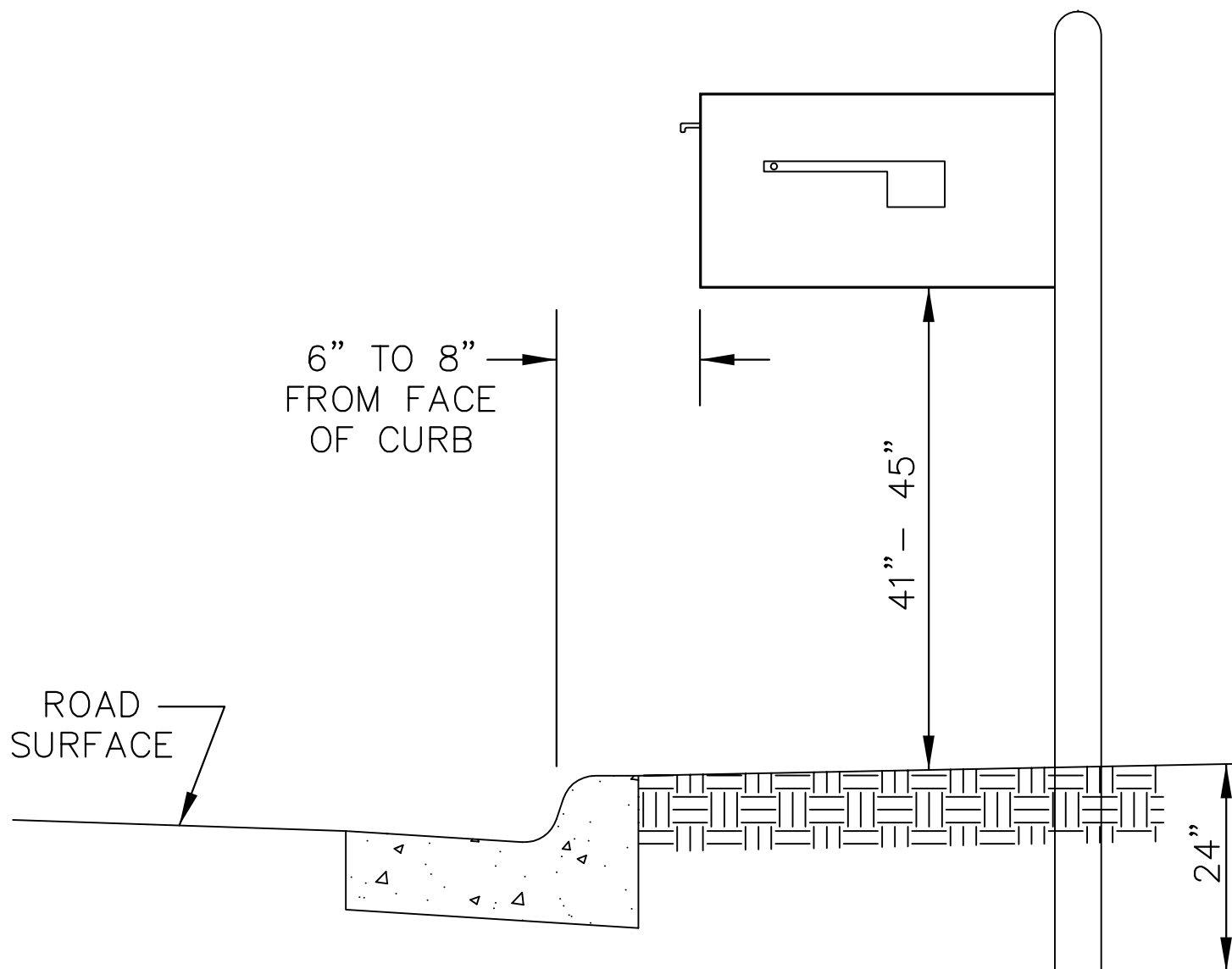
FOR USE WITH TYPE VI
GEOTEXTILE FABRIC.

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**GEOTEXTILE
"J" SEAM**

City of
Golden Valley
GV-STRT-180



NOTE:
BOTTOM OF MAILBOX SHOULD BE 41-45
INCHES ABOVE GRADE. FACE OF MAILBOX
SHOULD BE BETWEEN 6 AND 8 INCHES FROM
FACE OF CURB.

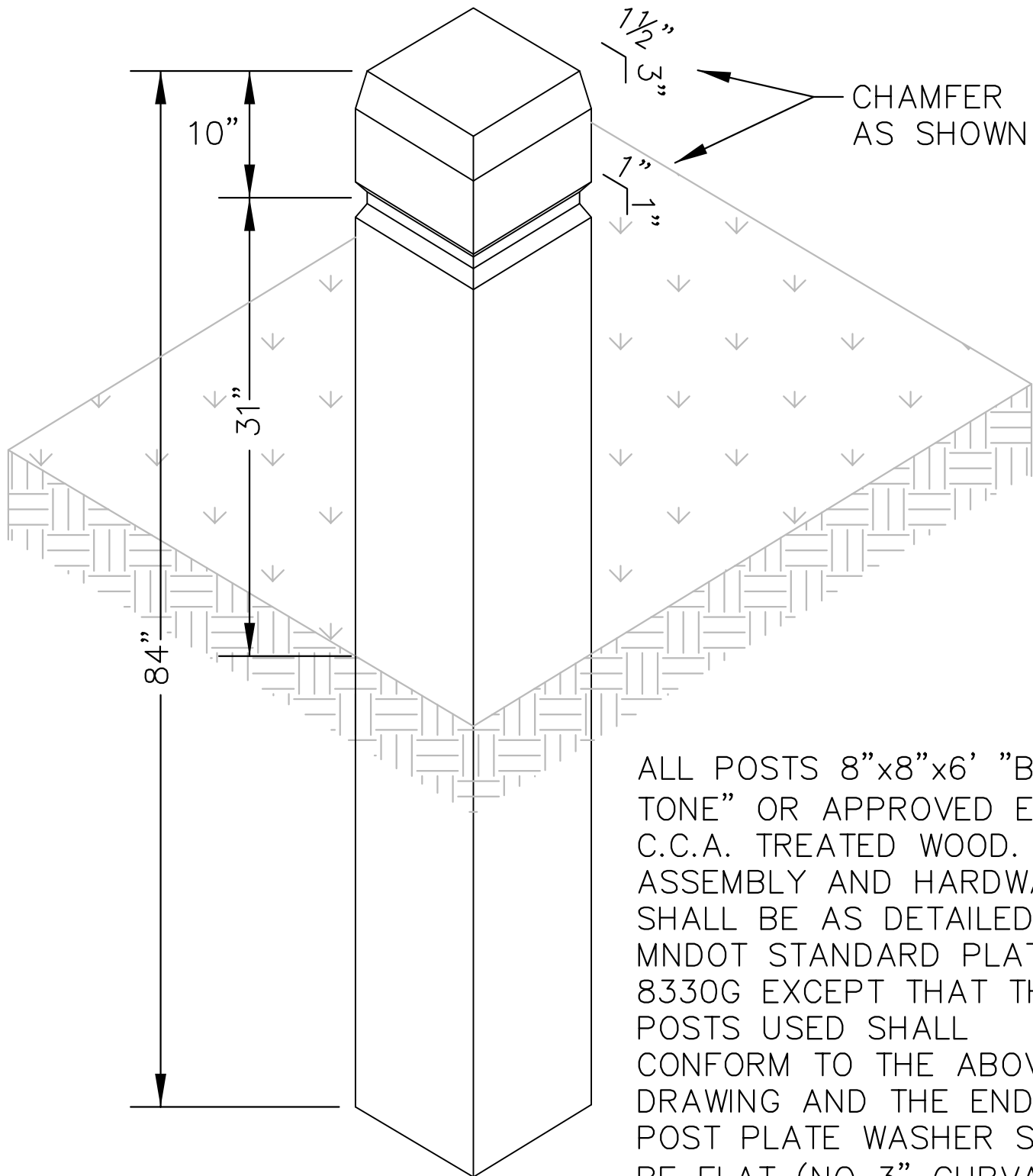
MAILBOX AND POST SHOULD MEET CURRENT
UNITED STATES POST OFFICE GUIDELINES.

APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**TYPICAL MAILBOX
PLACEMENT**

City of
Golden Valley
GV-STRT-190



ALL POSTS 8"x8"x6' "BROWN TONE" OR APPROVED EQUAL, C.C.A. TREATED WOOD. ASSEMBLY AND HARDWARE SHALL BE AS DETAILED ON MNDOT STANDARD PLATE 8330G EXCEPT THAT THE POSTS USED SHALL CONFORM TO THE ABOVE DRAWING AND THE END POST PLATE WASHER SHALL BE FLAT (NO 3" CURVATURE) OF THE SAME DIMENSIONS SHOWN.

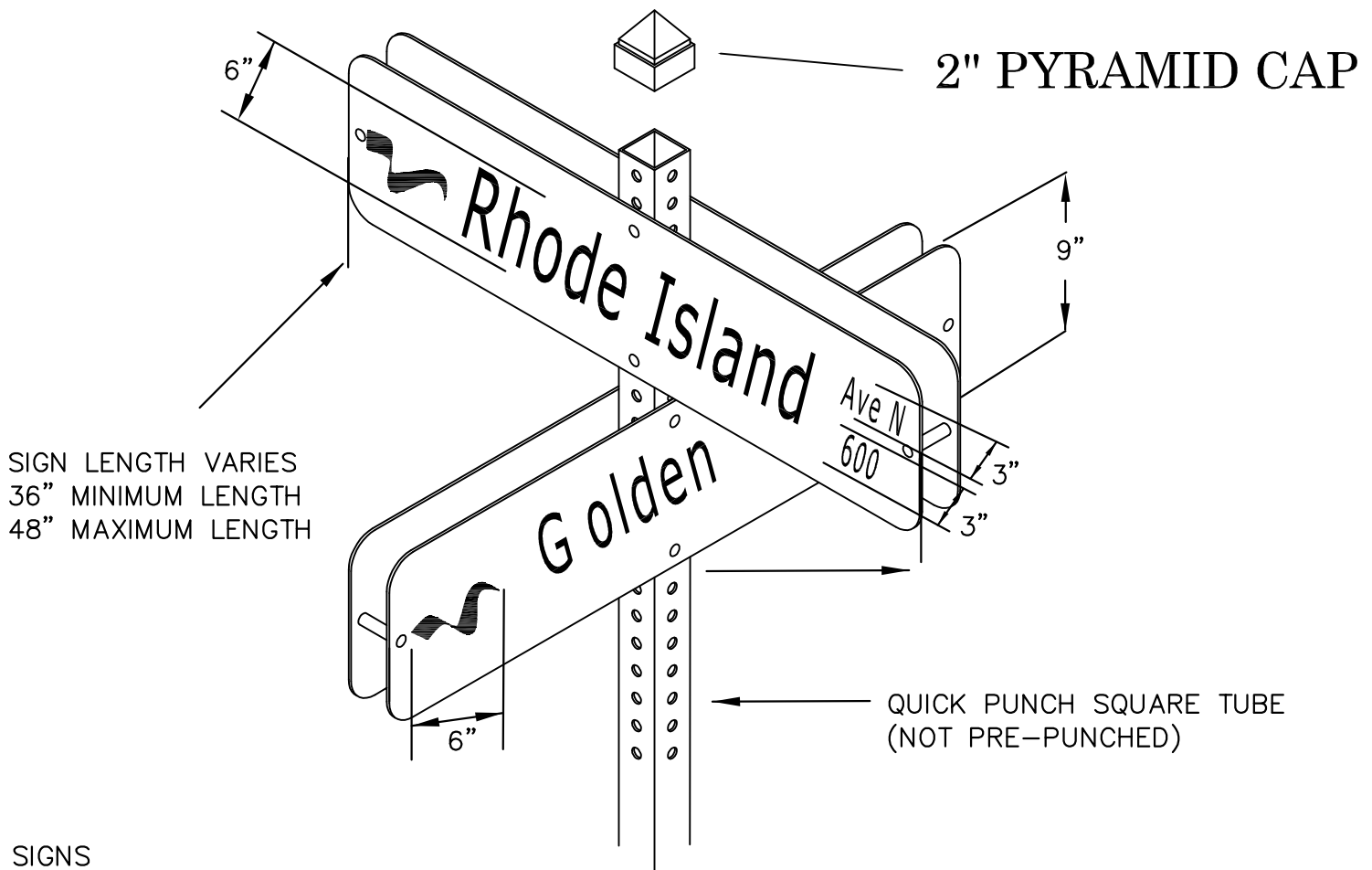
APPROVED JANUARY 1, 2018

[Signature]

CITY ENGINEER REG 23110

**SPECIAL GUARD
RAIL POST**

City of
Golden Valley
GV-STRT-200



SIGNS

SIGNS SHALL BE MADE OF FLAT ALUMINUM THAT IS .080 THICK AND 9" HIGH WITH 1.5" RADIUS CORNERS AND TELESAR PUNCHING.

SIGNS SHALL BE SINGLE FACE DG3 DIAMOND GRADE SHEETING.

PUBLIC STREET SIGNS SHALL HAVE A GREEN BACKGROUND WITH WHITE LETTERING, .5" E 450 SERIES BORDER, AND 6" CITY LOGO ON LEFT.

SIGNS SHALL HAVE .75" OF GREEN BACKGROUND ON ALL SIDES OF THE SIGN LEGEND.

STREET NAMES SHALL BE 6" UPPER CASE AND 4.5" LOWER CASE USING CLEARVIEW ONE FONT WITH .375" MARGINS.

STREET SUFFIXES AND BLOCK NUMBERS SHALL BE 3" UPPER CASE AND 2.25" LOWER CASE USING CLEARVIEW ONE FONT WITH .375" MARGINS.

A 6" ARROW SHALL BE ON THE RIGHT IF APPLICABLE.

ALL SIGNS SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD).

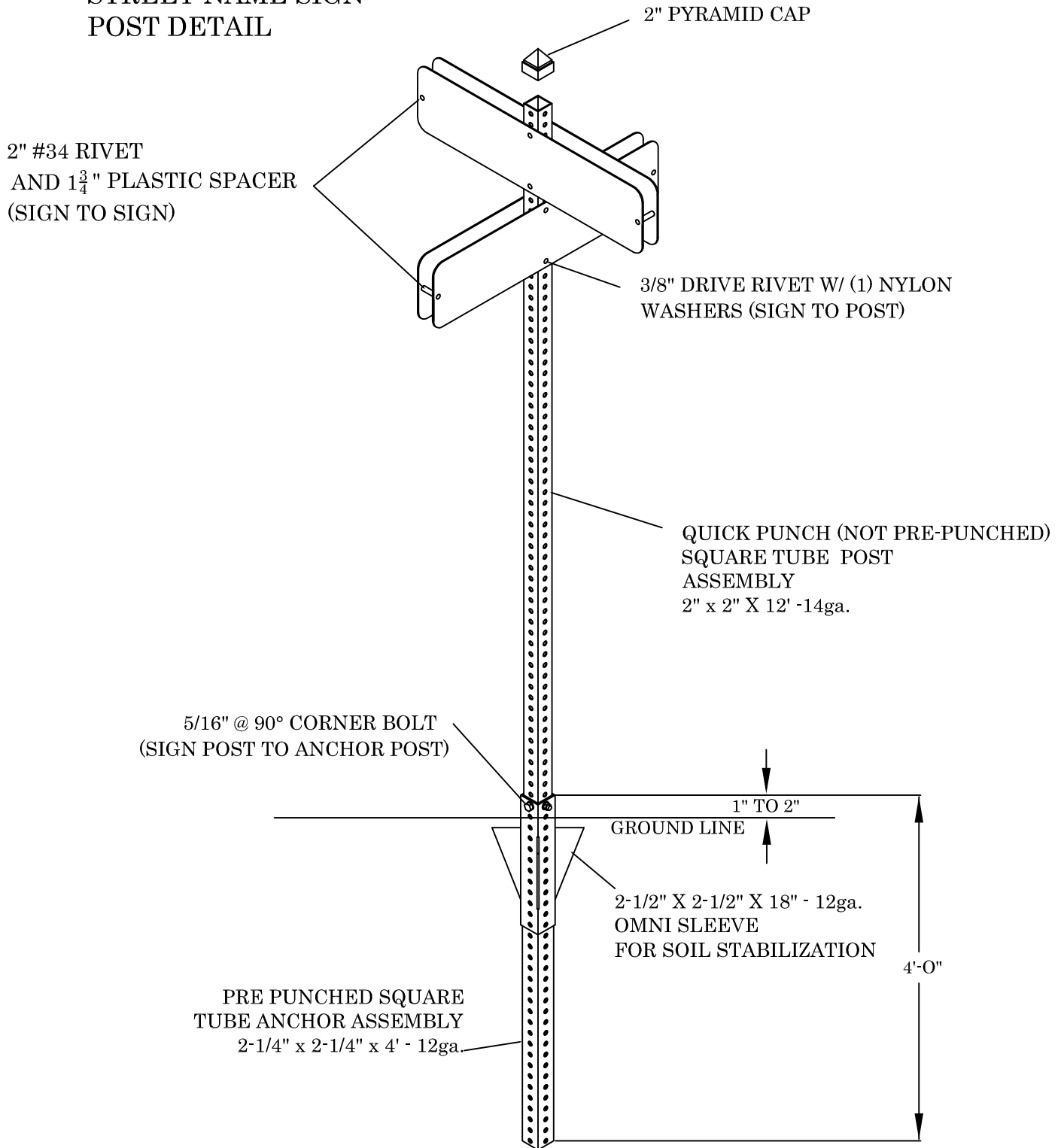
APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**TYPICAL
STREET SIGN**

City of
Golden Valley
GV-STRT-210

QUICK PUNCH
SQUARE TUBE
STREET NAME SIGN
POST DETAIL



APPROVED JANUARY 1, 2018

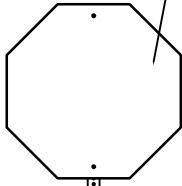
[Signature]

CITY ENGINEER REG 23110

**QUICK PUNCH SQUARE
TUBE STREET NAME
SIGN POST**

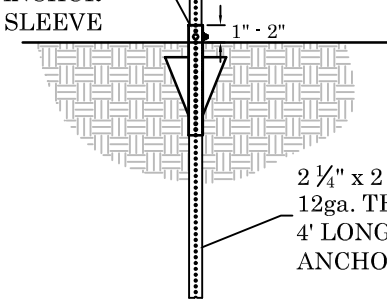
City of
Golden Valley
GV-STRT-220

30" x 30" WHITE ON RED
.100 ALUMINUM TYPE
IIIA SHEETING
DG3



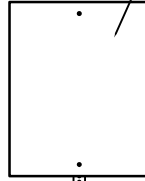
2" x 2" x 10' - 14ga.
TELESPAR
QUICK PUNCH

2 1/2" x 2 1/2" x 18" - 12ga.
TELESPAR
LONG OMNI
ANCHOR
SLEEVE

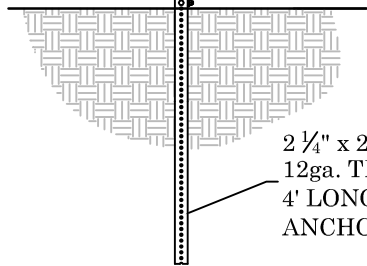


2 1/4" x 2 1/4" x 4'
12ga. TELESPAR
4' LONG SIGN
ANCHOR

24" x 30" .100 ALUMINUM
TYPE IIIA SHEETING
DG3

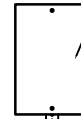


2" x 2" x 10' - 14ga.
TELESPAR
QUICK PUNCH

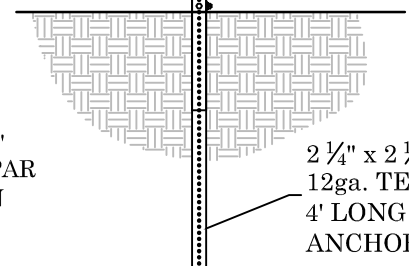


2 1/4" x 2 1/4" x 4'
12ga. TELESPAR
4' LONG SIGN
ANCHOR

12" x 18" .100 ALUMINUM
TYPE IIIA SHEETING
DG3

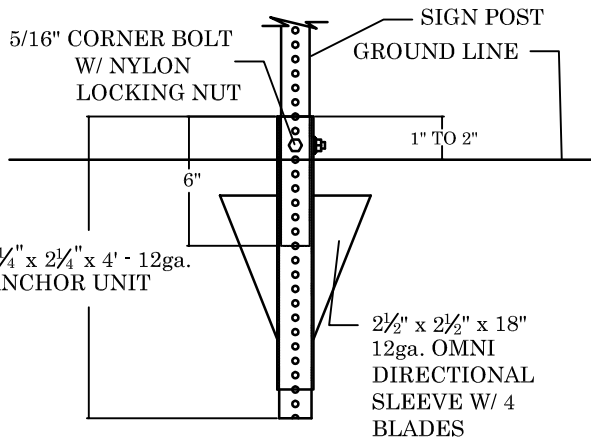
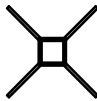


2" x 2" x 10' - 14ga.
TELESPAR
QUICK PUNCH



2 1/4" x 2 1/4" x 4'
12ga. TELESPAR
4' LONG SIGN
ANCHOR

OMNI ANCHOR
TOP VIEW



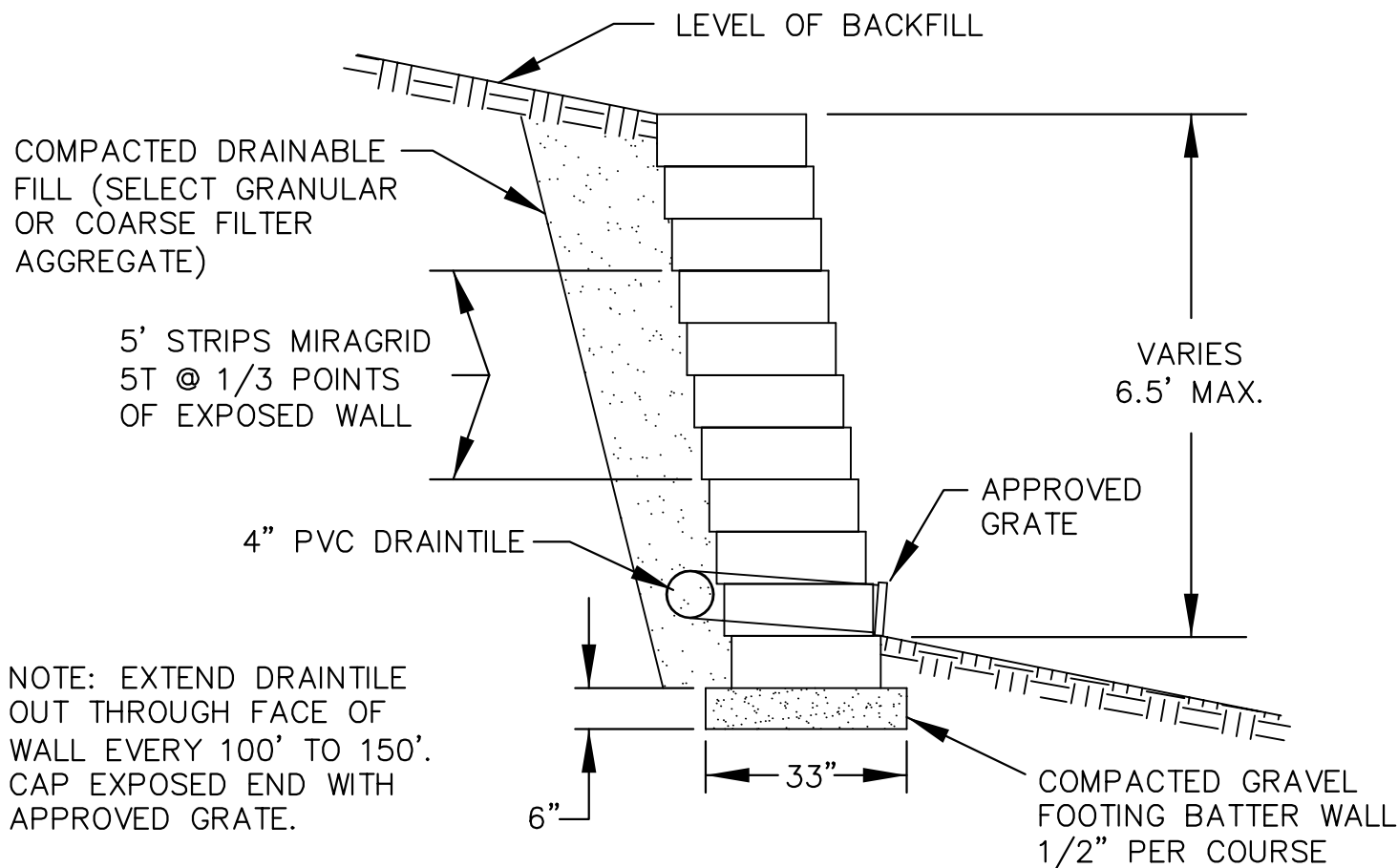
APPROVED JANUARY 1, 2018

[Signature]

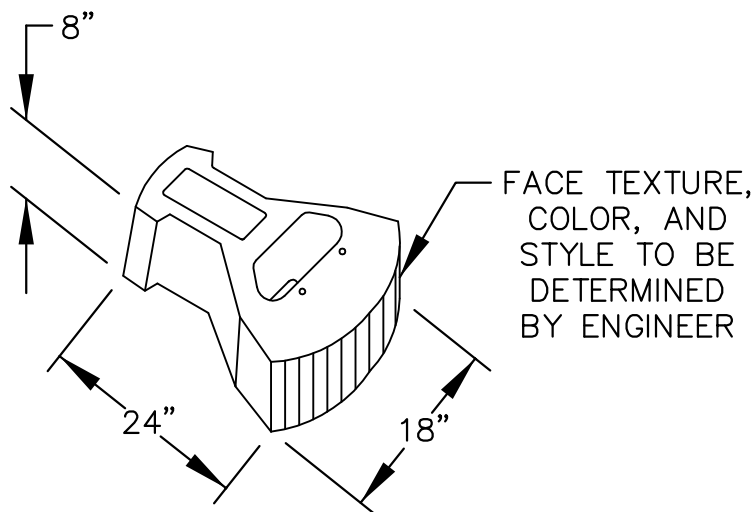
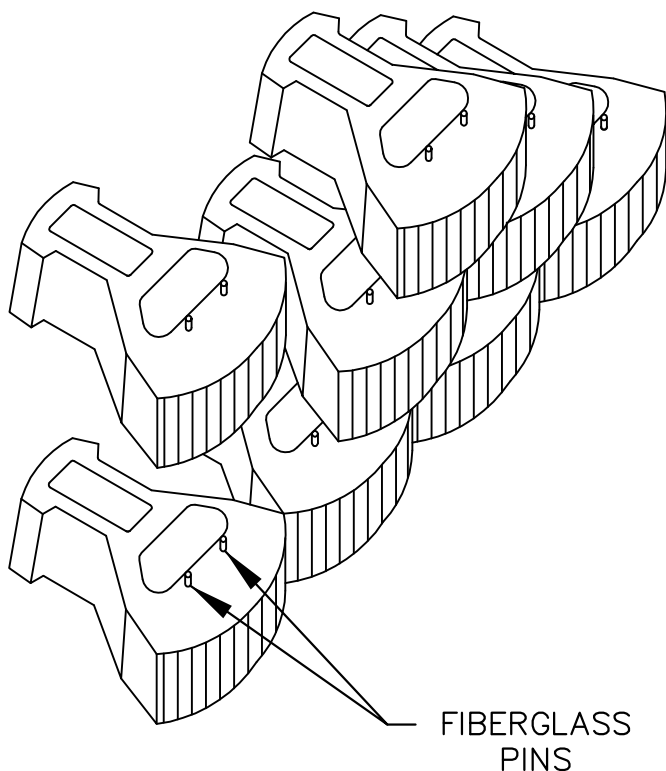
CITY ENGINEER REG 23110

**SQUARE TUBE SIGN
STANDARD WITH
OMNI BASE**

City of
Golden Valley
GV-STRT-230



NOTE: INSTALL A MINIMUM OF ONE COURSE BELOW GRADE



APPROVED JANUARY 1, 2018

CITY ENGINEER REG 23110

**MODULAR BLOCK
RETAINING WALL**

City of
Golden Valley
GV-STRT-240

C/L PROFILE GRADE

P/L

VARIABLES

VARIES

VARIES

13.0'

13.0'

6"

+2% SLOPE

-2.0% SLOPE

-2.0% SLOPE

+2% SLOPE

1:4

1:4

1:4

1:4

SOD W/4" TOPSOIL

B618 CURB & GUTTER

1.5" PLANT MIXED BITUMINOUS WEARING COURSE, MIXTURE DESIGNATION SPWEA240C

3" PLANT MIXED BITUMINOUS BASE COURSE, MIXTURE DESIGNATION SPNWB230B

6" AGGREGATE BASE, CLASS 5 - 100% CRUSHED LIMESTONE - SPEC. 2211

0 to 36" SELECT GRANULAR BORROW - SPEC. 2149.232 (AS DIRECTED BY THE ENGINEER)

GEOTEXTILE FABRIC TYPE IV - SPEC. 2105 AS DEEMED NECESSARY BY THE ENGINEER


CITY ENGINEER REG 23110

TYPICAL LOCAL STREET SECTION

Golden Valley
GV-STRT-250