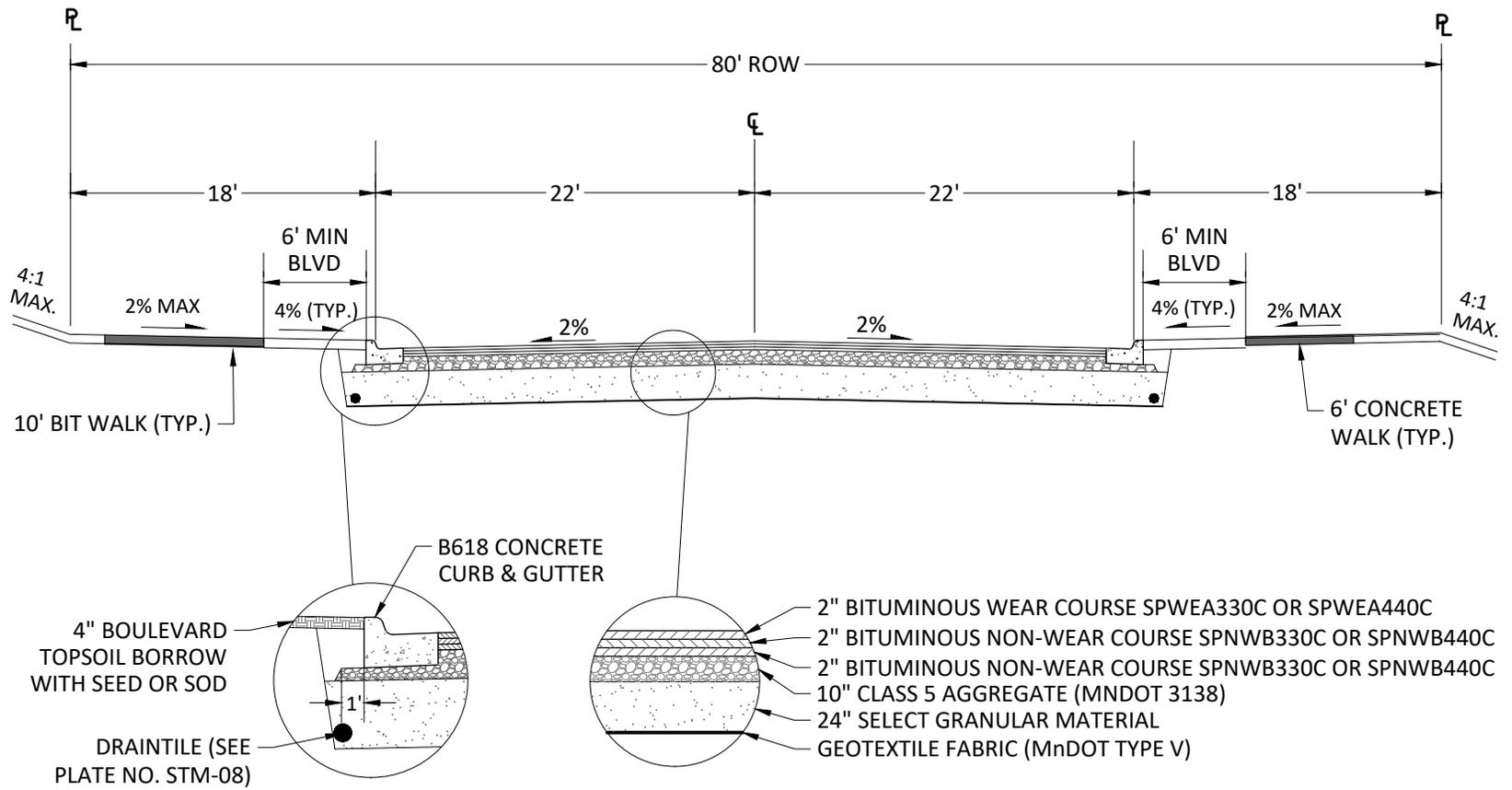




CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
URBAN STREET DESIGN -
COLLECTOR STREET



NOTES:

1. PLACE TACK COAT BETWEEN ALL PAVEMENT LAYERS.
2. ALL RADII AT INTERSECTIONS SHALL BE B618 CURB AND GUTTER WITH 5' TRANSITIONS FROM EACH SIDE OF RADIUS. SEE PLATE NO. STR-16.
3. FOR CATCHBASIN TRANSITIONS SEE PLATE NO. STR-08.
4. DRAINTILE SHALL BE INSTALLED AT ALL CATCHBASINS AND AS DIRECTED BY THE ENGINEER. SEE PLATE NO. STM-08.
5. BOTH CONCRETE SIDEWALK AND BITUMINOUS WALK TO BE INSTALLED ON URBAN COLLECTOR STREETS. SEE PLATE NO. STR-18 FOR BIT WALK AND PLATE NO. STR-22 SIDEWALK SECTIONS.
6. FOR TRAIL, SEE PLATE NO. STR-18. FOR CONCRETE WALK, SEE PLATE NO STR-22.
7. MUST MAINTAIN A MINIMUM OF 6' BOULEVARD FOR SNOW STORAGE.

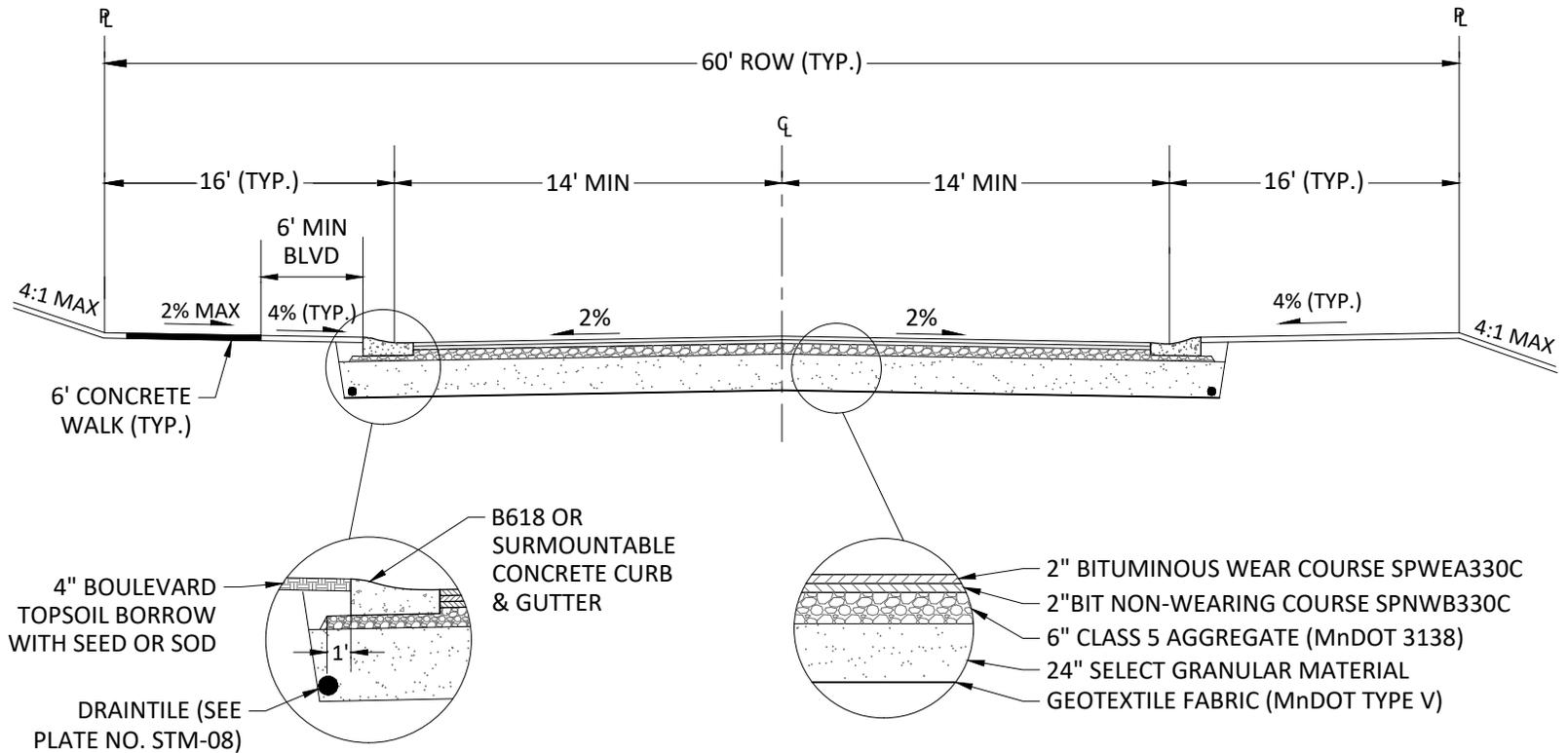
Revised 03/23

STR-01

Plate No.



CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
URBAN STREET DESIGN -
LOCAL STREET



NOTES:

1. PLACE TACK COAT BETWEEN ALL PAVEMENT LAYERS.
2. ALL RADII AT INTERSECTIONS SHALL BE B618 CURB AND GUTTER WITH 5' TRANSITIONS FROM EACH SIDE OF RADIUS. SEE PLATE NO. STR-16.
3. FOR CATCHBASIN TRANSITIONS SEE PLATE NO. STR-08.
4. DRAINTILE SHALL BE INSTALLED AT ALL CATCHBASINS AND AS DIRECTED BY THE ENGINEER. SEE PLATE NO. STM-08.
5. FOR TRAIL, SEE PLATE NO. STR-18. FOR CONCRETE WALK, SEE PLATE NO. STR-22.
6. MUST MAINTAIN A MINIMUM OF 6' BOULEVARD FOR SNOW STORAGE.
7. IF STREET IS PLACED ON A 50' RIGHT OF WAY, A SIDEWALK EASEMENT WILL BE REQUIRED TO MAINTAIN THE 6' BOULEVARD FOR SNOW STORAGE.

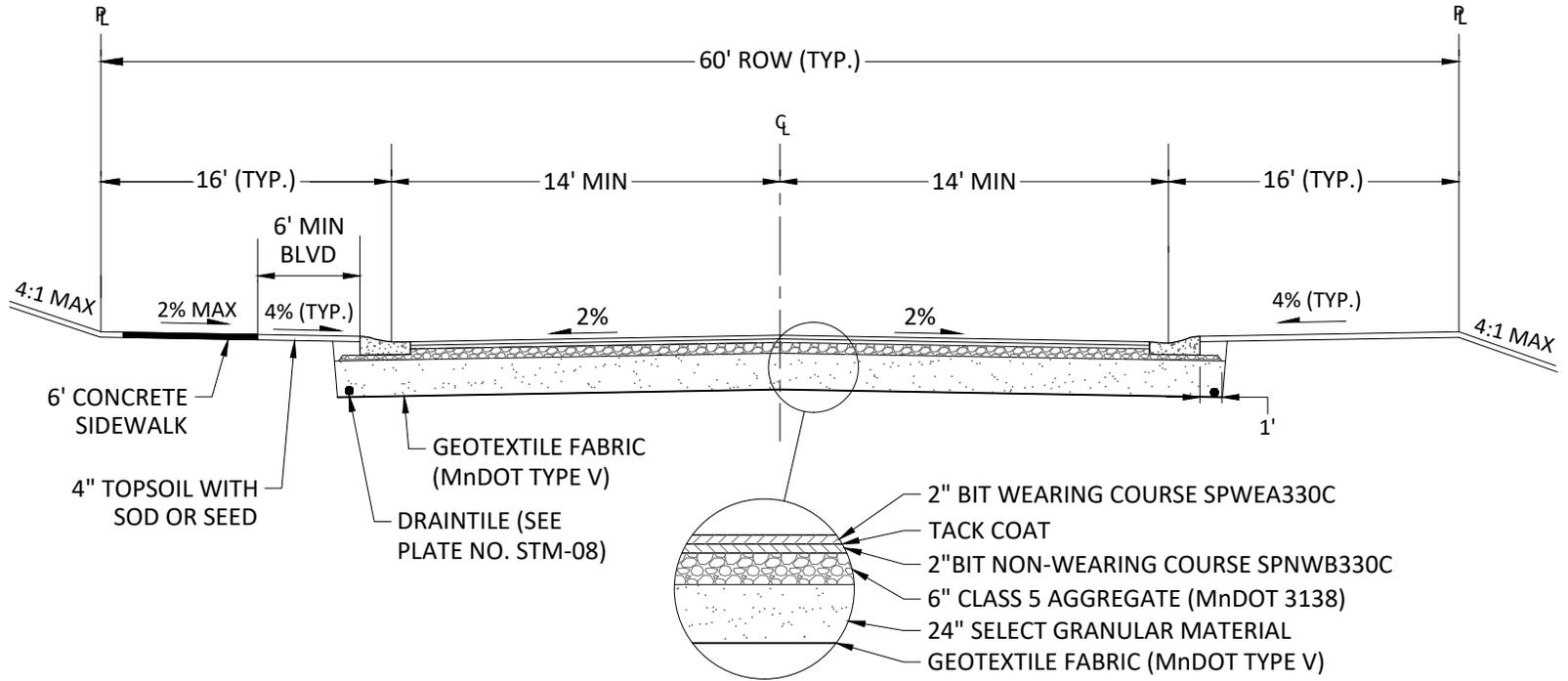
Revised 03/23

STR-02

Plate No.



CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
URBAN STREET DESIGN -
LOCAL STREET



NOTES:

1. ALL RADII SHALL BE B618 CURB AND GUTTER WITH 5' TRANSITIONS FROM EACH SIDE OF RADIUS.
2. FOR CATCHBASIN TRANSITIONS SEE PLATE NO. STR-08.
3. DRAINTILE SHALL BE INSTALLED AT ALL CATCHBASINS AND AS DIRECTED BY THE ENGINEER.
4. INSTALL TRAIL ON THE NORTH AND EAST SIDE OF STREET.
5. INSTALL SIDEWALK ON THE SOUTH AND WEST SIDE OF STREET.
6. SEE PLATE NO. STR-22 SIDEWALK SECTION.
7. MUST MAINTAIN A MINIMUM OF 6' BOULEVARD FOR SNOW STORAGE.
8. IF STREET IS PLACED ON A 50' RIGHT OF WAY, A SIDEWALK EASEMENT WILL BE REQUIRED TO MAINTAIN THE 6' BOULEVARD FOR SNOW STORAGE.

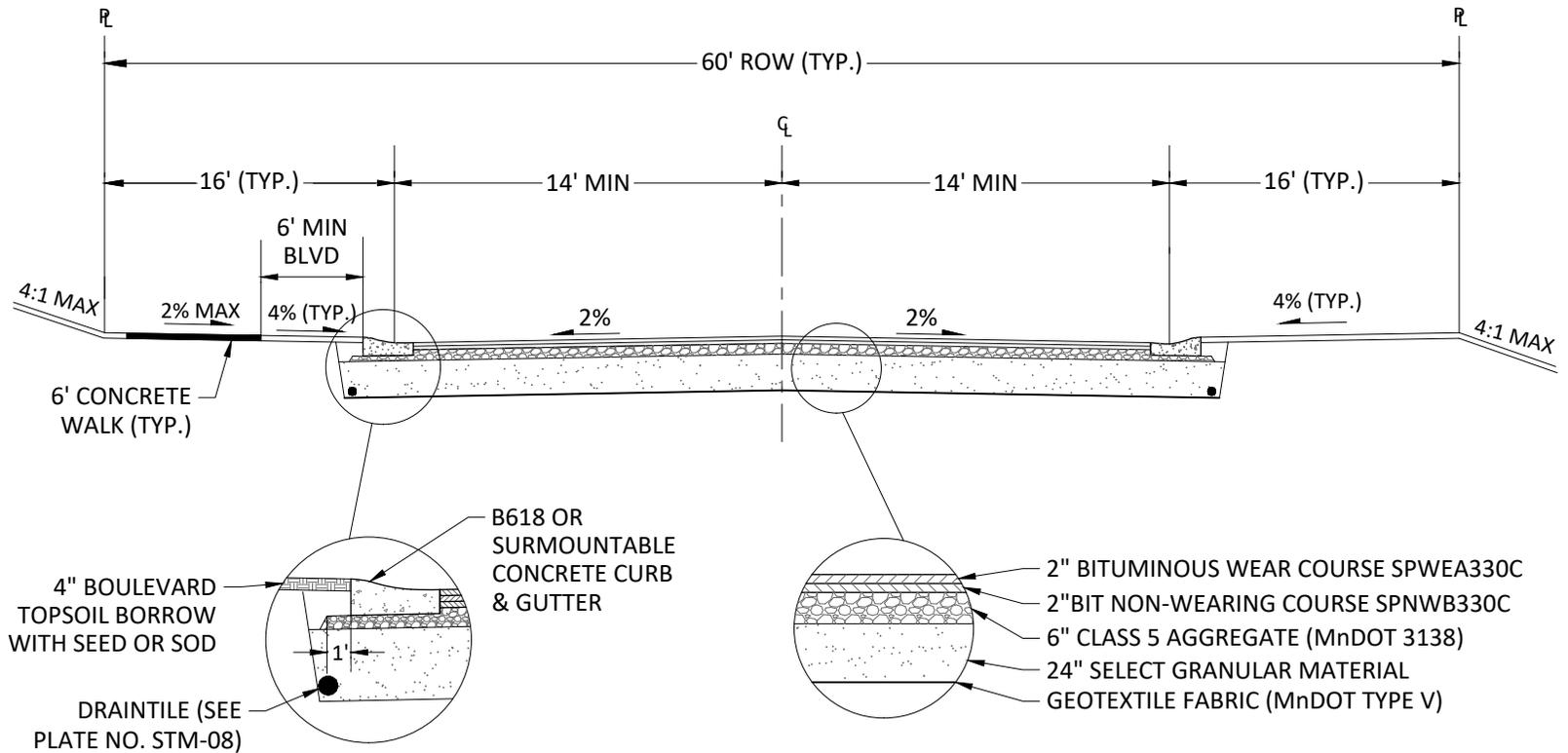
Revised 03/23

STR-02

Plate No.



CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
URBAN STREET DESIGN -
LOCAL STREET RECONSTRUCT



NOTES:

1. PLACE TACK COAT BETWEEN ALL PAVEMENT LAYERS.
2. ALL RADII AT INTERSECTIONS SHALL BE B618 CURB AND GUTTER WITH 5' TRANSITIONS FROM EACH SIDE OF RADIUS. SEE PLATE NO. STR-16.
3. FOR CATCHBASIN TRANSITIONS SEE PLATE NO. STR-08.
4. DRAINTILE SHALL BE INSTALLED AT ALL CATCHBASINS AND AS DIRECTED BY THE ENGINEER. SEE PLATE NO. STM-08.
5. FOR TRAIL, SEE PLATE NO. STR-18. FOR CONCRETE WALK, SEE PLATE NO. STR-22.
6. MUST MAINTAIN A MINIMUM OF 6' BOULEVARD FOR SNOW STORAGE.

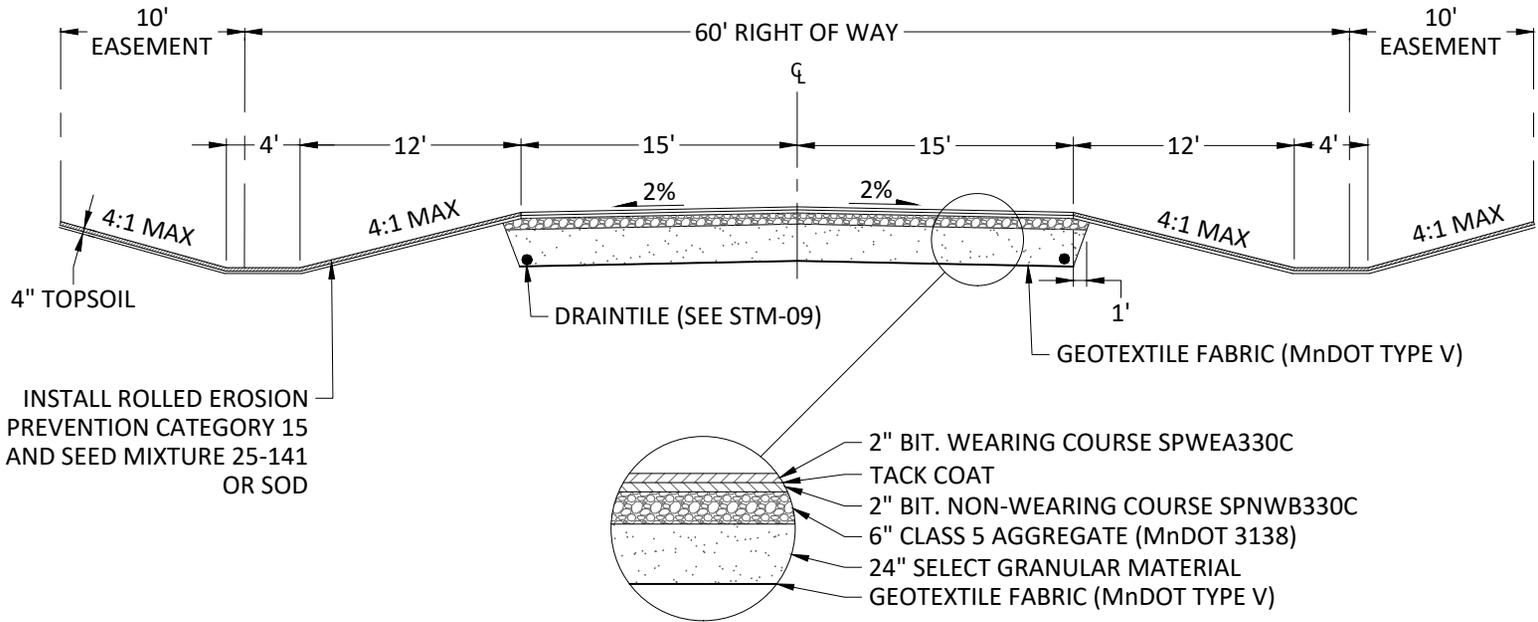
Revised 03/23

STR-03

Plate No.



CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
RURAL STREET DESIGN
LOCAL STREET



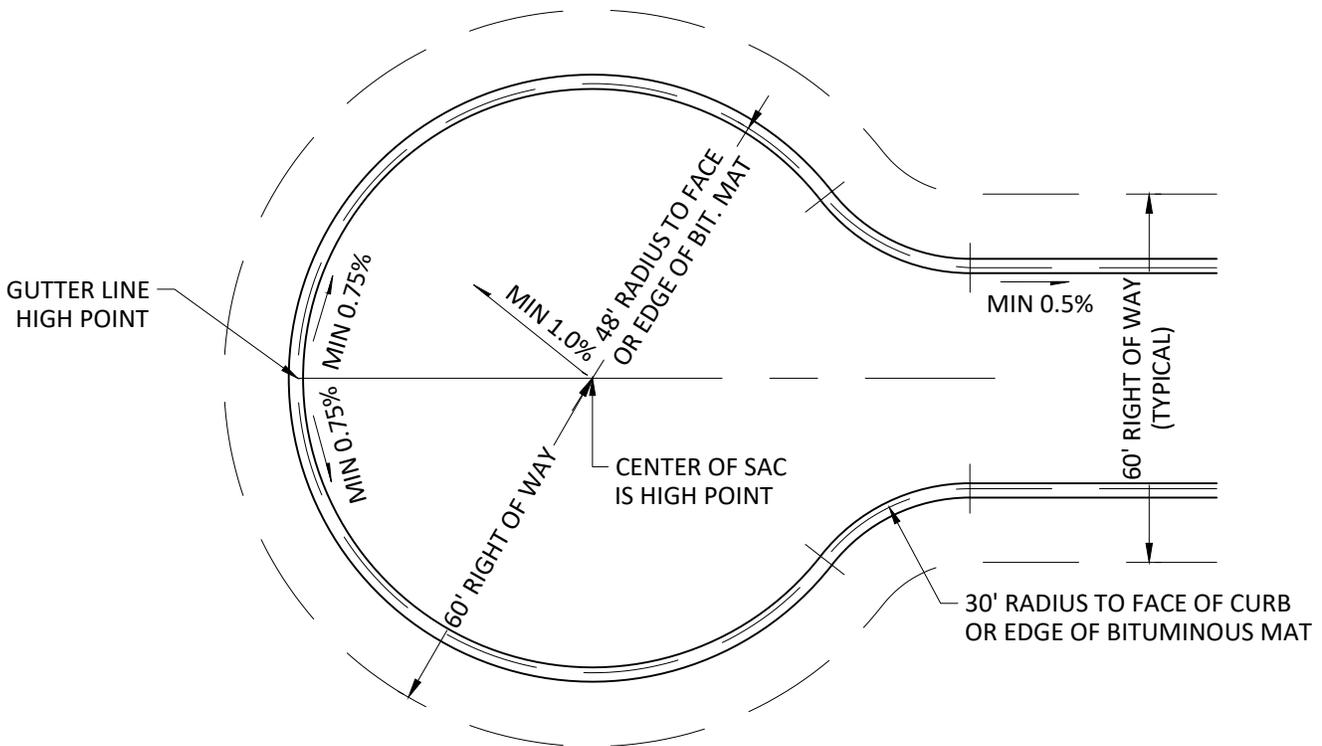
NOTES:

1. OUTLET DRAINTILE INTO HEADWALL. FOLLOW MnDOT STANDARD PLAN 5-297.433 AND 5-064.431.
2. PAVEMENT SECTION SHALL HAVE A 12' STRIPED DRIVING LANE WITH A 3' FULL DEPTH BITUMINOUS SHOULDER.
3. NEW SOD SHALL BE PLACED LEVEL WITH THE EXISTING ADJACENT SOD AND THE THATCH OR BASE SOIL SHALL BE APPROXIMATELY ONE INCH BELOW THE TOP OF ADJACENT BITUMINOUS OR GRAVEL SHOULDER.
4. BIO ROLLS MAY BE REQUIRED IN DITCH BOTTOM. BALE CHECKS WILL NOT BE ALLOWED IN DITCH SECTIONS.

Revised 03/23

STR-04

Plate No.



NOTES:

1. FOR CONCRETE CURB AND GUTTER SEE PLATE NO. STR-07.
2. FOR RURAL STREET WITH A DITCH SECTION SEE PLATE NO. STR-04.



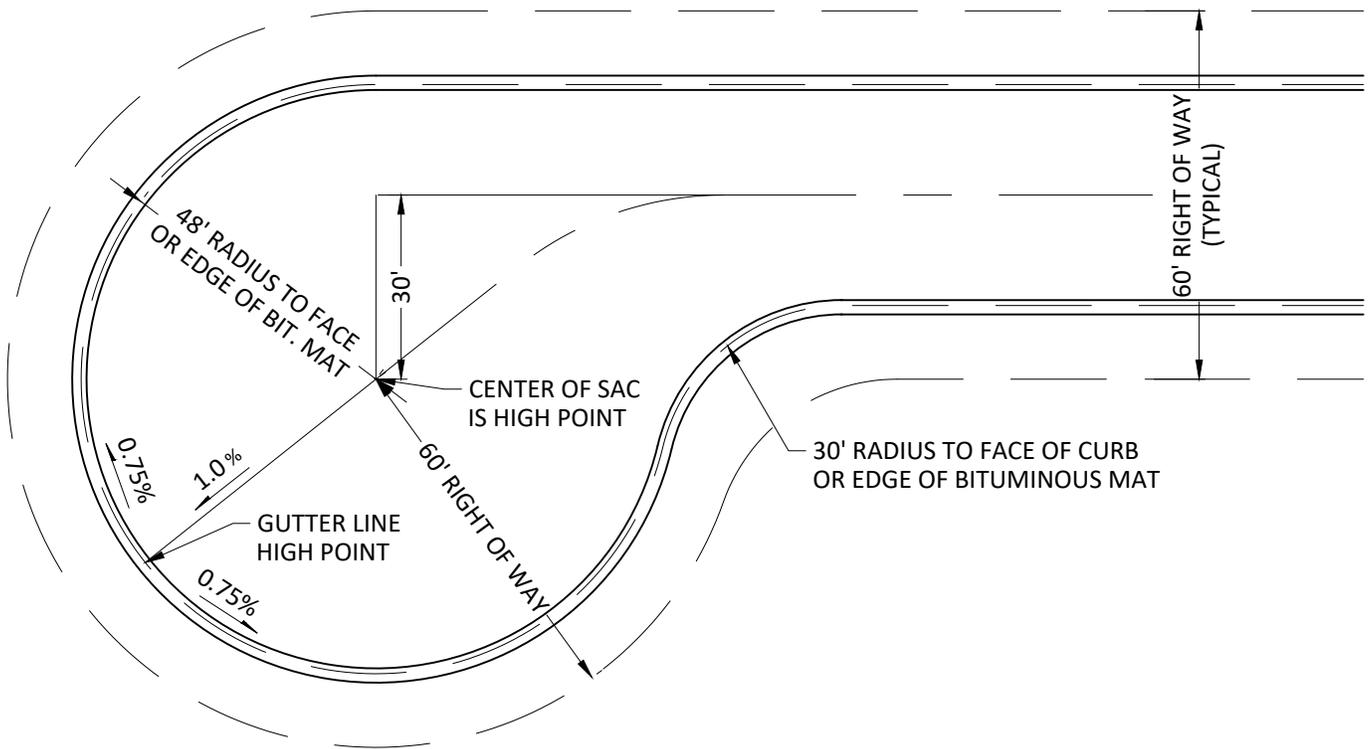
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

STANDARD CUL-DE-SAC

Plate No.

STR-05

Revised 03/23



1. FOR CONCRETE CURB AND GUTTER SEE PLATE NO. STR-07.
2. FOR RURAL STREET WITH A DITCH SECTION SEE PLATE NO. STR-04.



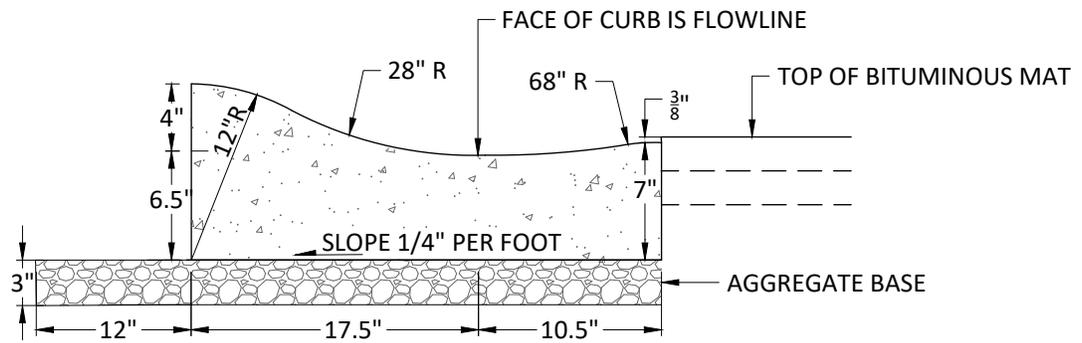
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

OFFSET CUL-DE-SAC

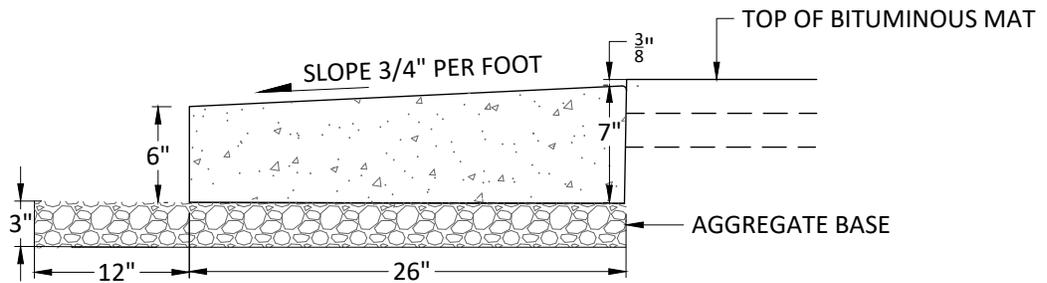
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STR-06

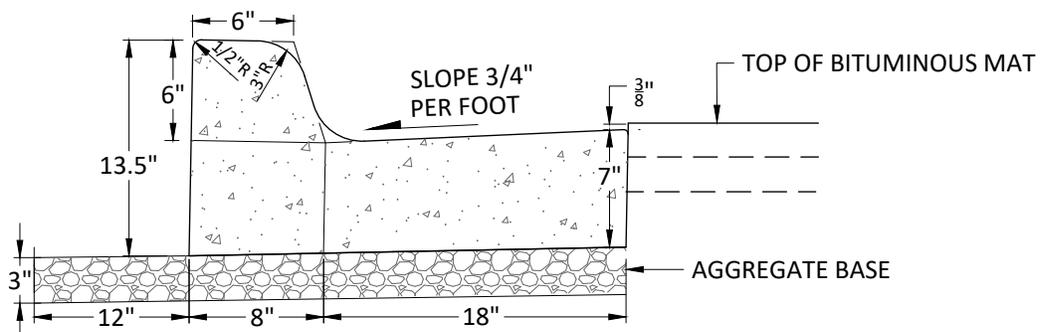
Revised 03/23



SURMOUNTABLE CURB



RIBBON CURB



B618 CURB

NOTES:

1. SEE PLATE NO. STR-08 FOR CATCH BASIN TRANSITIONS.
2. PLACE EXPANSION JOINTS EVERY 200 LF AND AT ALL RADII.
3. PLACE CONTRACTION JOINTS EVERY 10 LF.



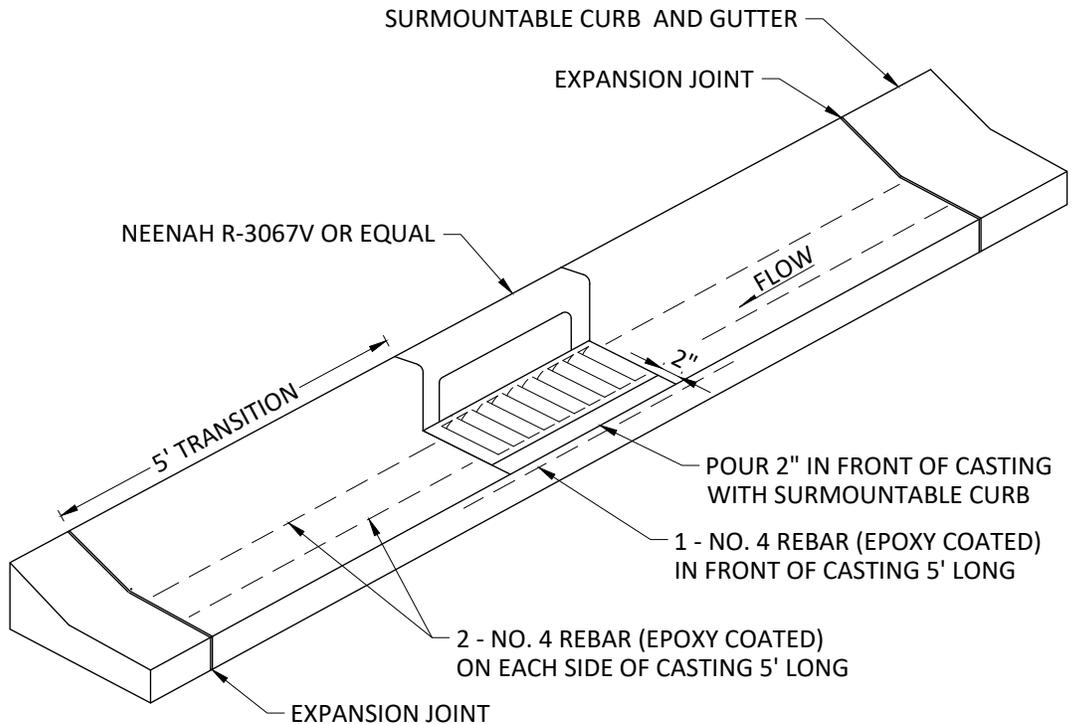
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

CURB AND GUTTER

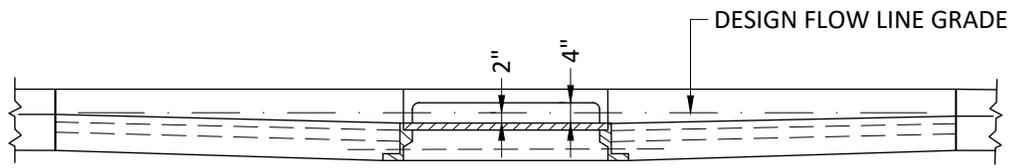
Plate No.

STR-07

Revised 03/23



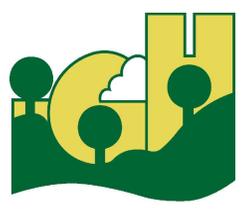
ISOMETRIC



SECTION

NOTES:

1. TRANSITION SURMOUNTABLE CURB AND GUTTER INTO B618 AT CATCH BASINS.
2. POUR 2" OF CONCRETE IN FRONT OF THE CASTING AT ALL CATCH BASINS.
3. ORIENT VANES TO INTERCEPT STORM WATER.
4. USE NEENAH 3501-TB OR EQUAL FOR CATCH BASINS IN DRIVEWAYS.
5. DEPRESS CATCH BASIN GRATE 2" BELOW DESIGN FLOW LINE GRADE. (MAINTAIN GRADE AT TOE)



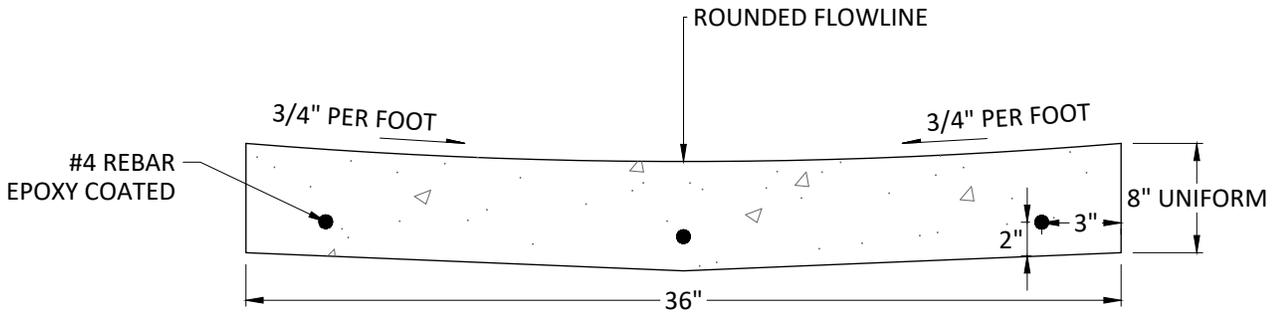
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

CATCH BASIN TRANSITION

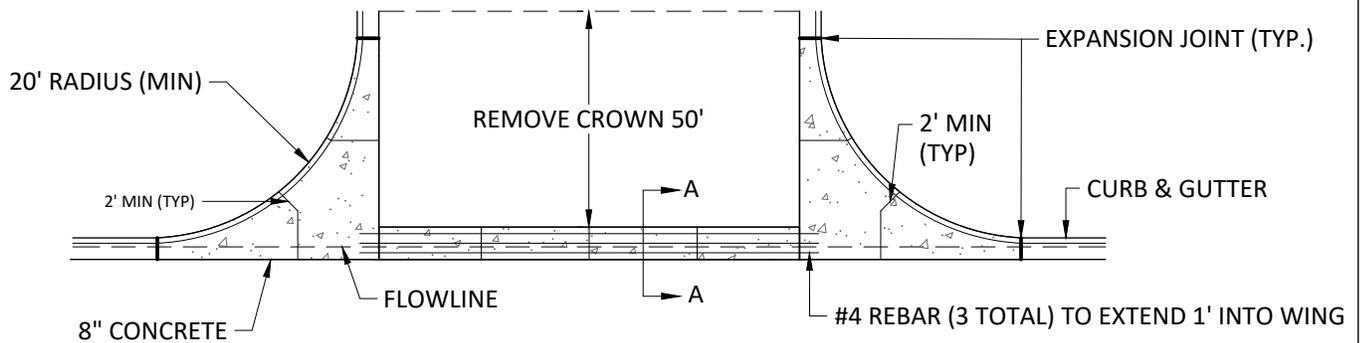
Plate No.

STR-08

Revised 03/23

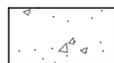


CONCRETE SWALE - SECTION A-A



PLAN

NOTE: CONCRETE PANELS SHALL NOT EXCEED 9' IN ANY DIRECTION



PAID AS CONCRETE VALLEY GUTTER



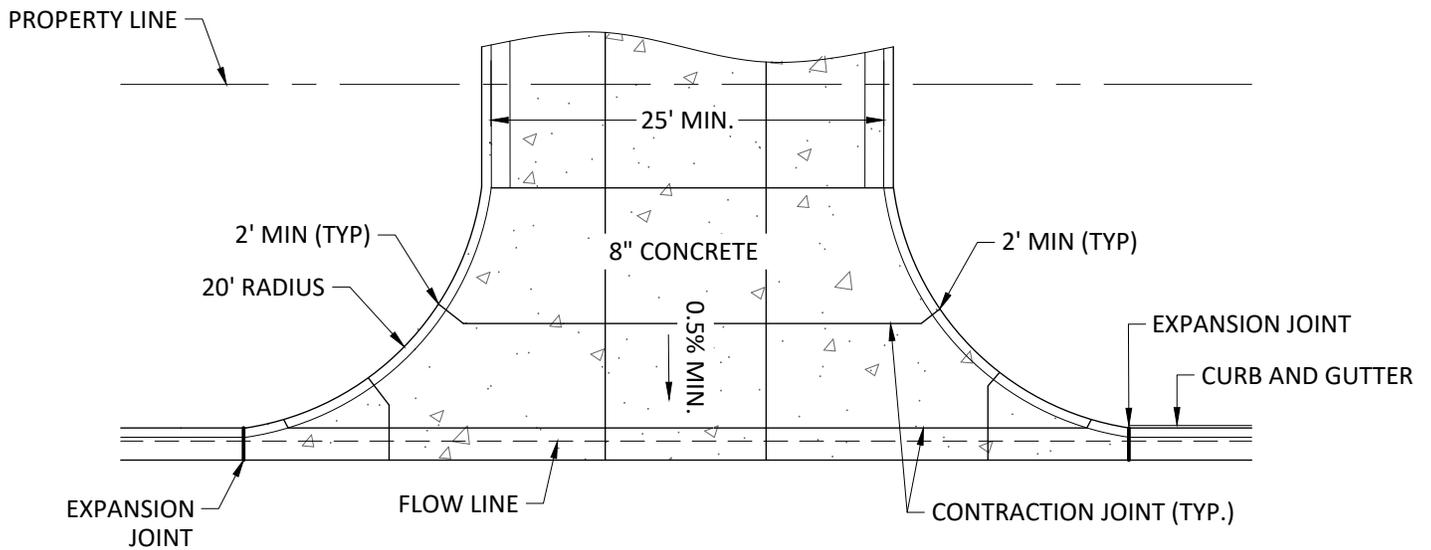
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

VALLEY GUTTER

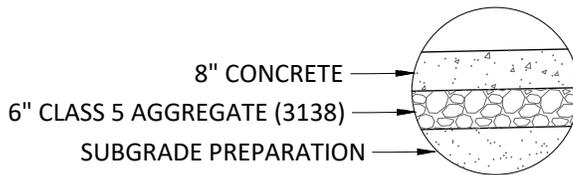
Plate No.

STR-09

Revised 03/23



PLAN



SECTION

NOTES:

1. CONCRETE PANELS SHALL NOT EXCEED 10' IN ANY DIRECTION.
2. TRANSITION CURB FROM FULL HEIGHT AT STREET TO MATCH AT SIDEWALK.
3. POUR SIDEWALK SEPARATELY.
4. DRIVEWAY GRADE AT PROPERTY LINE SHALL BE MINIMUM OF 4" ABOVE THE FLOWLINE.
5. CONCRETE DRIVEWAY WILL BE PAID AS 8" CONCRETE DRIVEWAY PAVEMENT HIGH-EARLY.



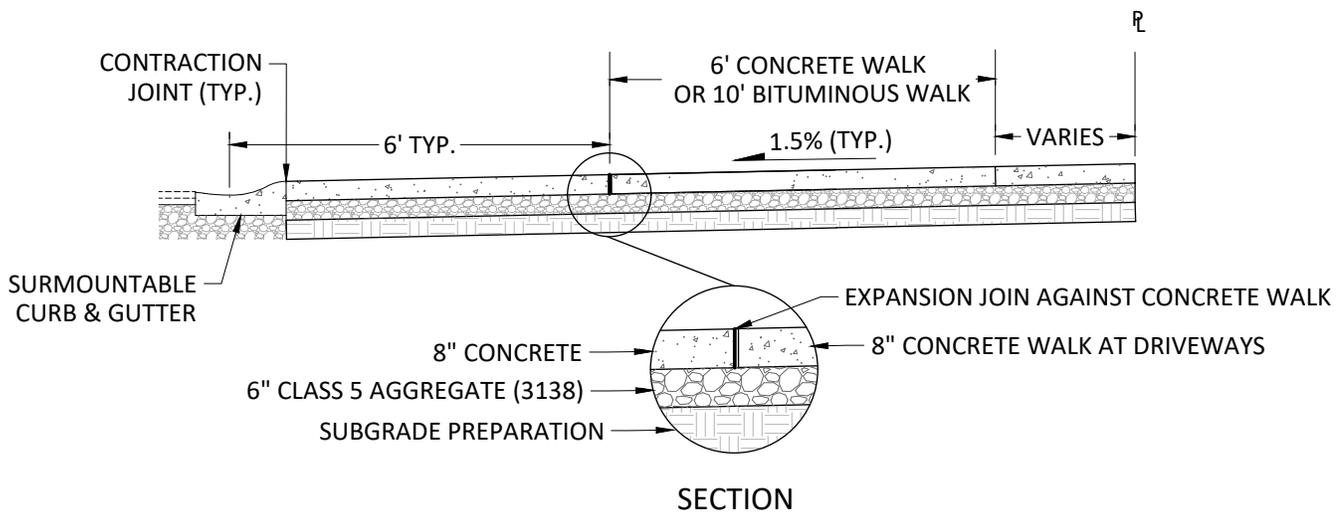
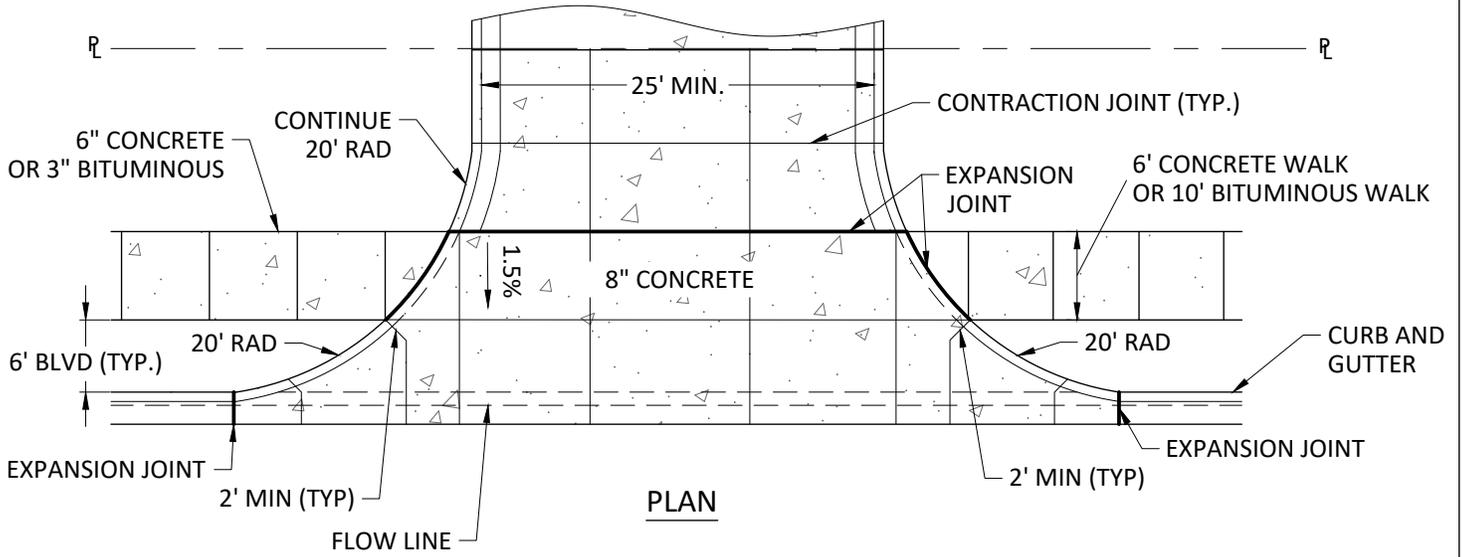
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

COMMERCIAL DRIVEWAY

Plate No.

STR-10

Revised 02/23



NOTES:

1. CONCRETE PANELS SHALL NOT EXCEED 9' IN ANY DIRECTION.
2. TRANSITION CURB FROM FULL HEIGHT AT STREET TO MATCH AT SIDEWALK.
3. DRIVEWAY GRADE AT PROPERTY LINE SHALL BE MINIMUM OF 4 IN ABOVE THE FLOWLINE.
4. CONCRETE DRIVEWAY WILL BE PAID AS 8" CONCRETE DRIVEWAY PAVEMENT HIGH-EARLY.

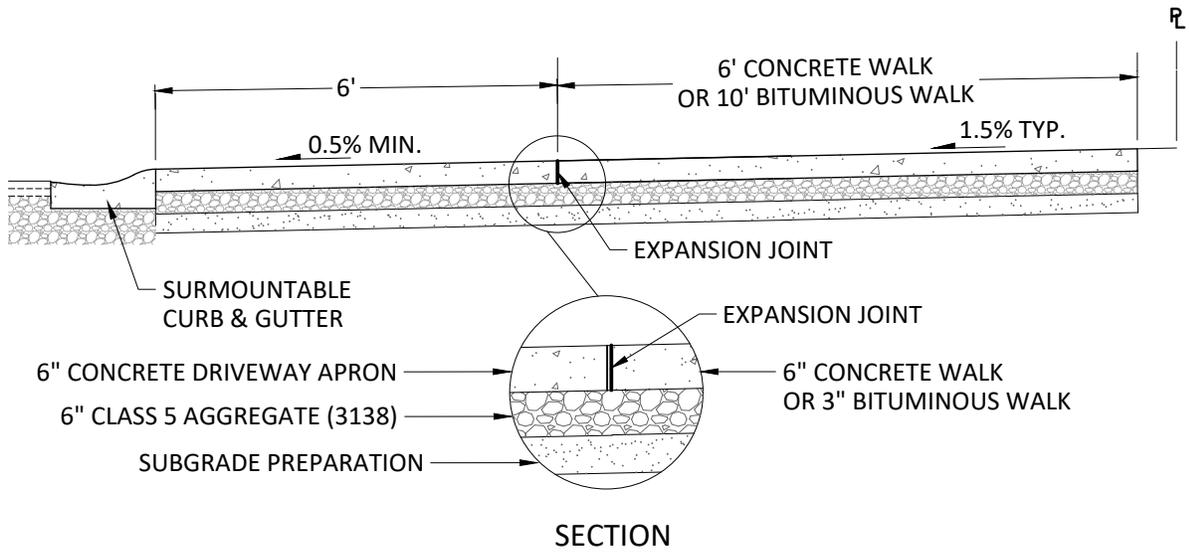
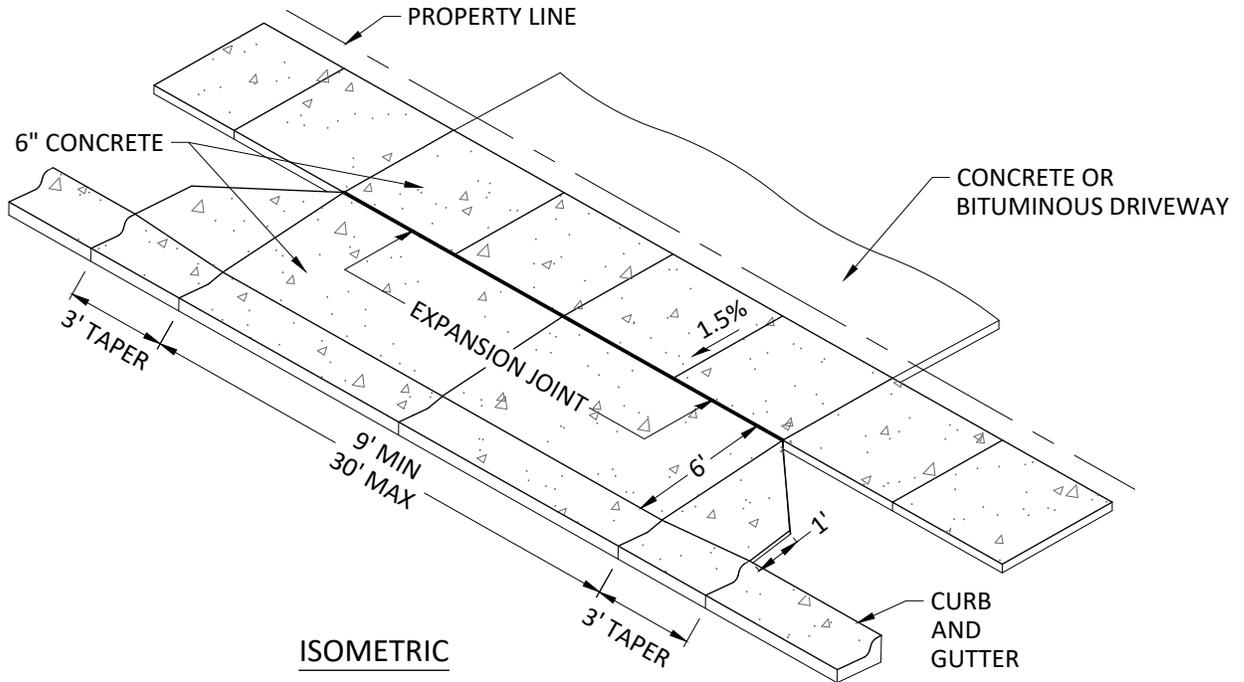


CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
**COMMERCIAL DRIVEWAY
 WITH SIDEWALK**

Plate No.

STR-11

Revised 02/23



NOTES:

1. CONCRETE PANELS SHALL NOT EXCEED 9' IN ANY DIRECTION.
2. POUR CURB, SIDEWALK, AND DRIVEWAY SEPARATELY.
3. DRIVEWAY GRADE AT PROPERTY LINE SHALL BE A MINIMUM OF 4 IN ABOVE THE FLOWLINE.

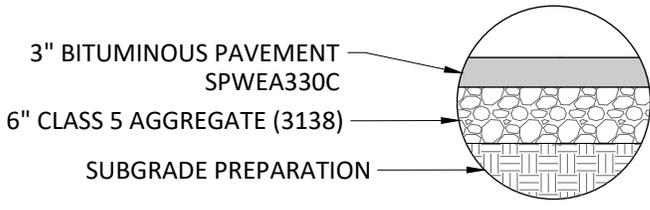
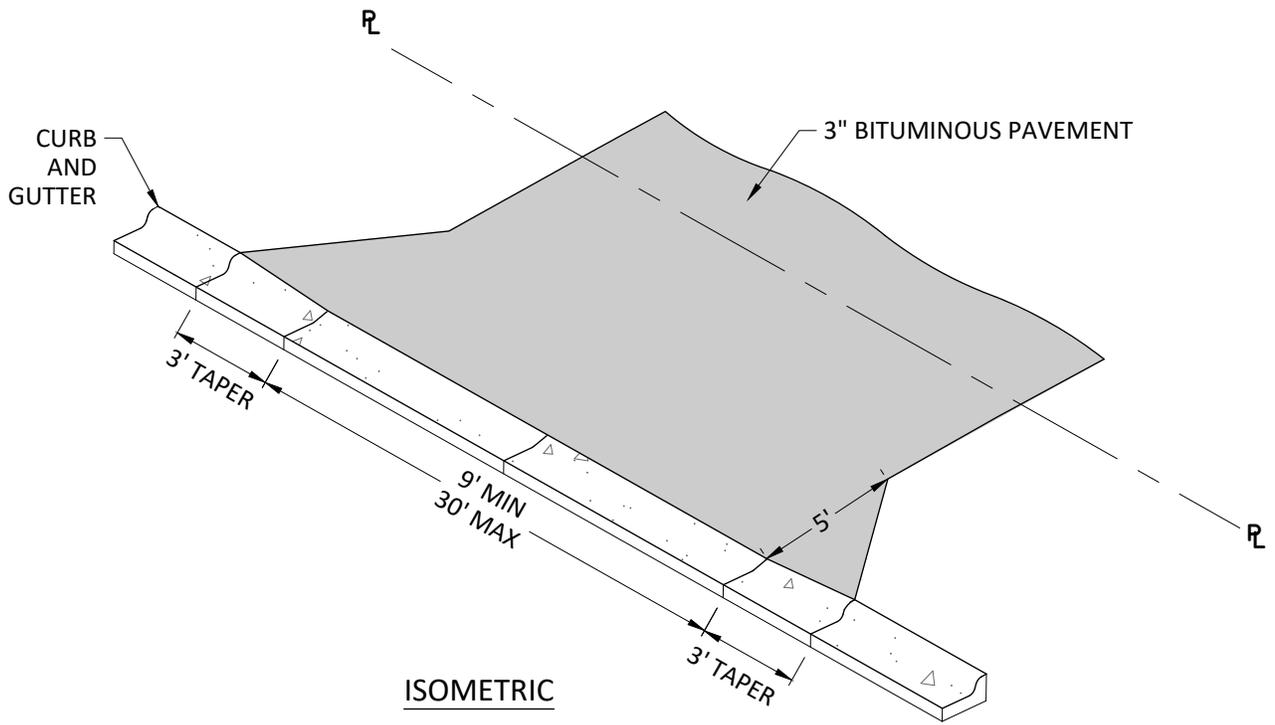


CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION
**RESIDENTIAL DRIVEWAY
WITH SIDEWALK**

Plate No.

STR-12

Revised 02/23



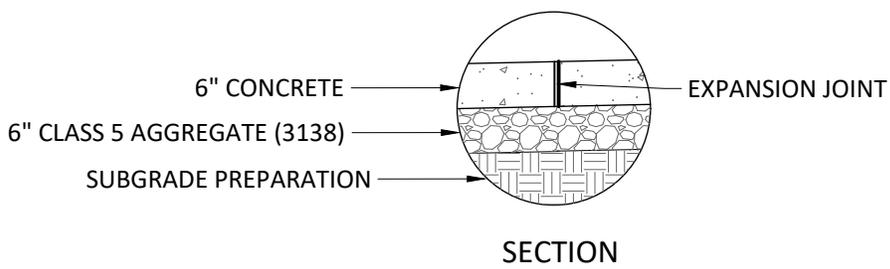
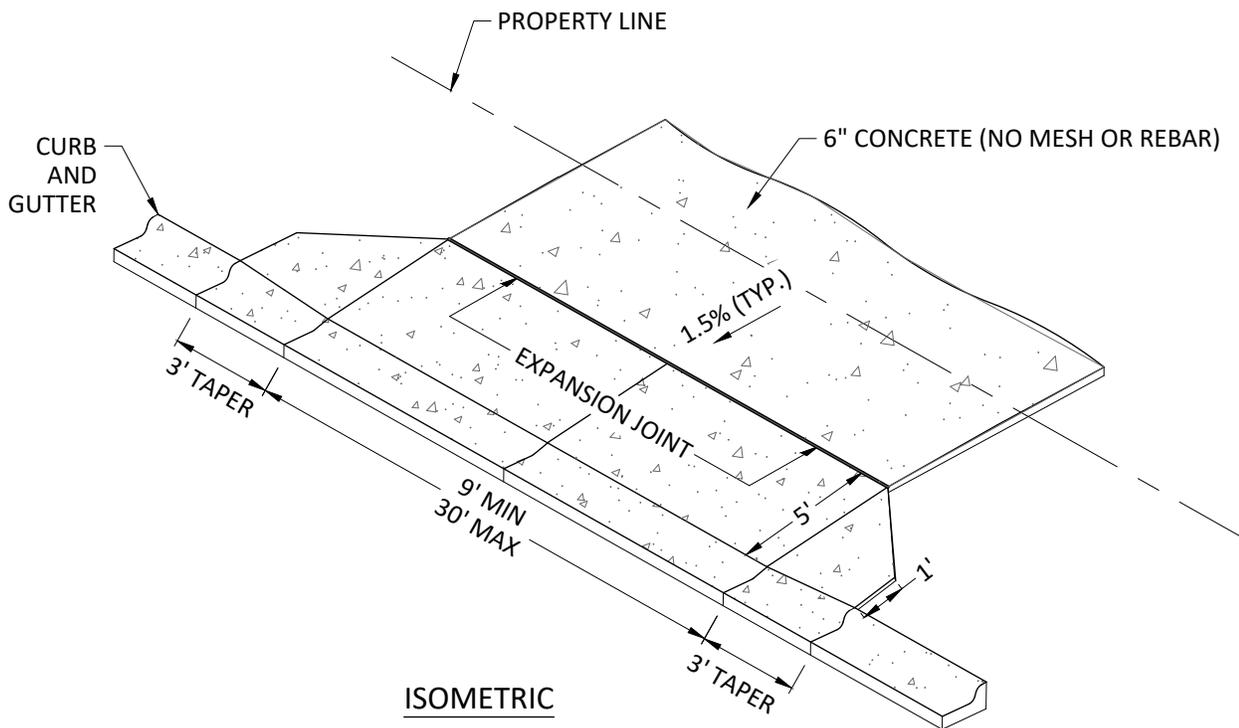
NOTES:

1. BITUMINOUS MAY BE PAVED IN ONE LIFT UP TO 3" THICK. PAVE IN TWO LIFTS IF MATCHING EXISTING THICKNESS OVER 3".
2. DRIVEWAY GRADE AT PROPERTY LINE SHALL BE A MINIMUM OF 4" ABOVE THE FLOWLINE.



CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
**BITUMINOUS RESIDENTIAL
 DRIVEWAY**

Plate No.
STR-13
 Revised 03/23



NOTES:

1. CONCRETE PANELS SHALL NOT EXCEED 9' IN ANY DIRECTION.
2. POUR CURB AND DRIVEWAY SEPARATELY.
3. DRIVEWAY GRADE AT PROPERTY LINE SHALL BE A MINIMUM OF 4 IN ABOVE THE FLOWLINE.



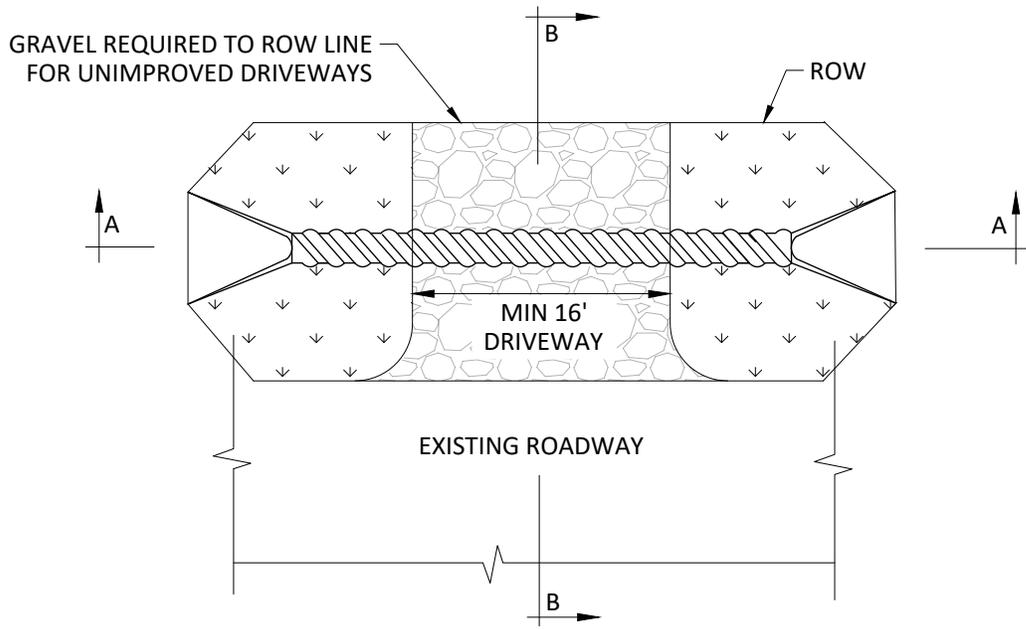
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

**CONCRETE
RESIDENTIAL DRIVEWAY**

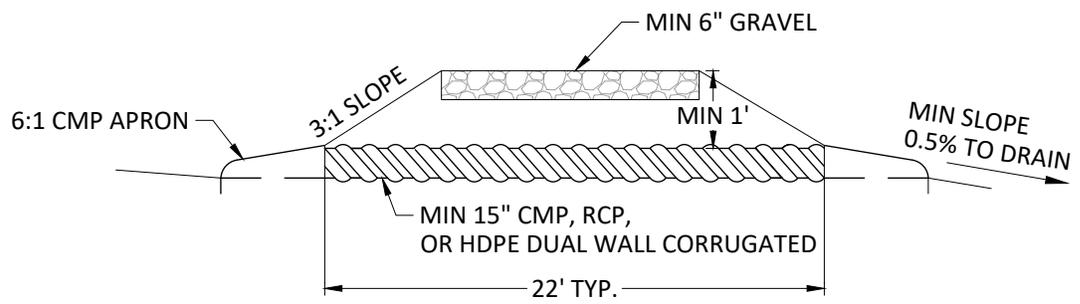
Plate No.

STR-14

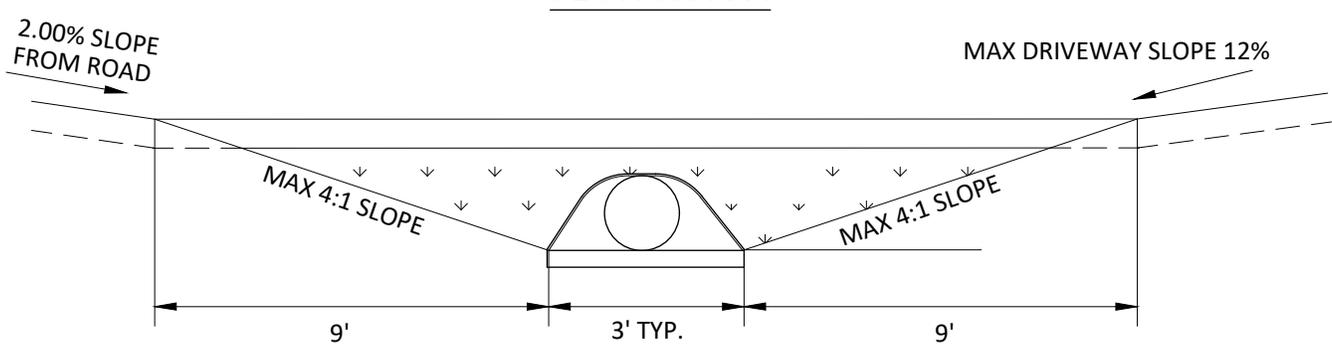
Revised 03/23



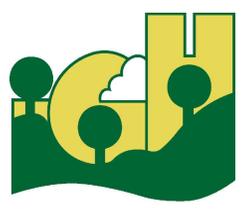
PLAN



SECTION A-A

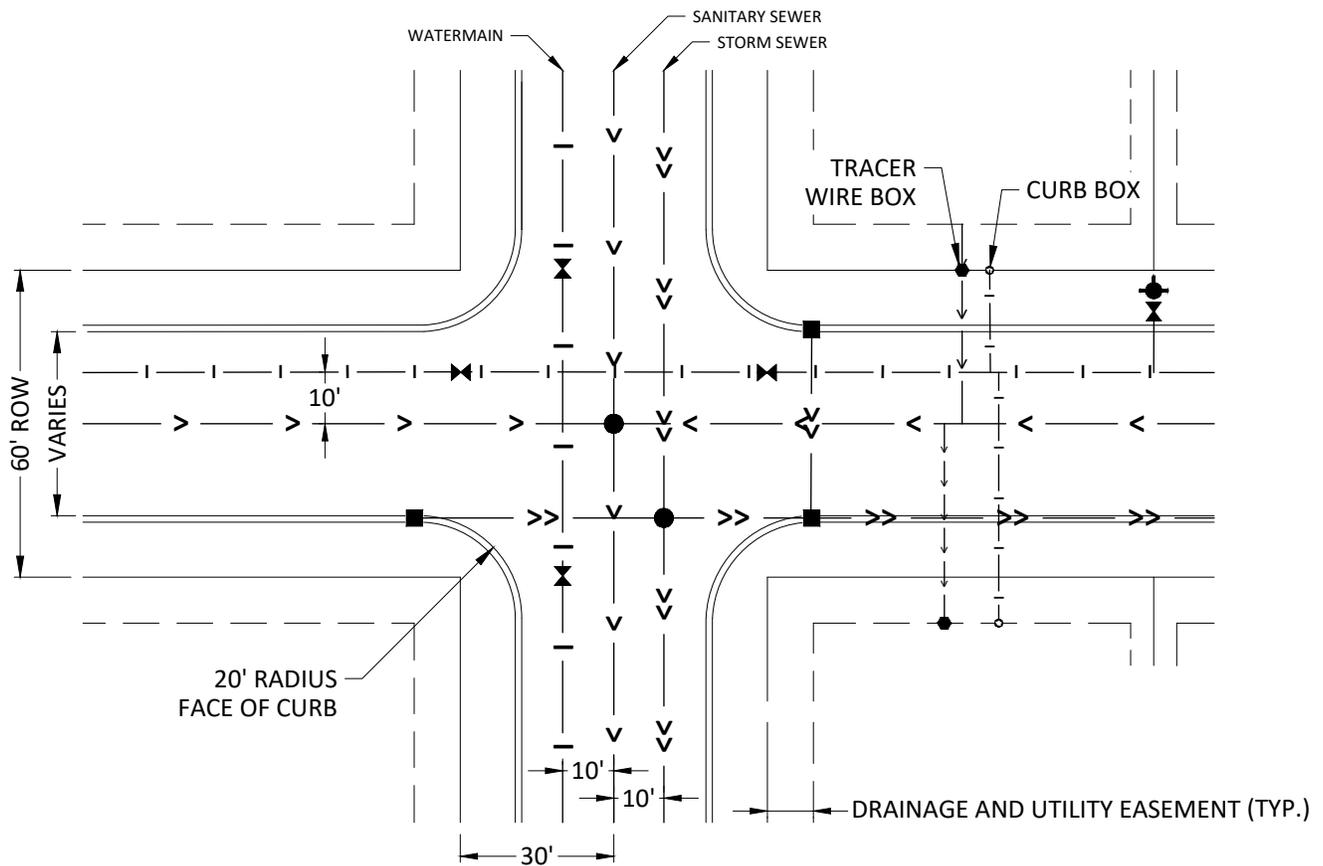


SECTION B-B



CITY OF INVER GROVE HEIGHTS
 PUBLIC WORKS ENGINEERING DIVISION
**RURAL RESIDENTIAL
 DRIVEWAY**

Plate No.
STR-15
 Revised 03/23



NOTES:

1. A PERMIT IS REQUIRED TO WORK IN THE PUBLIC ROW. THIS INCLUDES INSTALLATION OF SMALL UTILITIES. CONTACT THE CITY OF IGH'S ENGINEERING DIVISION TO OBTAIN THE PERMIT OR FOR FURTHER INFORMATION.
2. PLACE ALL UTILITIES INCLUDING ABOVE GROUND TRANSFORMERS AND PEDESTALS IN EASEMENT. PLACE UTILITIES AT A MINIMUM OF 10' FROM CITY FACILITIES OR STRUCTURES.
3. SHOW ALL UTILITY CROSSINGS IN PROFILE DRAWINGS.

SANITARY SEWER

1. INSTALL SANITARY SEWER ON CENTERLINE.
2. SPACE SANITARY MANHOLES NO FURTHER THAN 400' APART.
3. PLACE SANITARY SERVICES DOWNSTREAM OF WATER MAIN SERVICES.
4. INSTALL TRACER WIRE BOXES AT THE PROPERTY LINE FOR EACH SANITARY SERVICE.

WATER MAIN:

1. OFFSET THE WATER MAIN 10' NORTH OR WEST OF CENTERLINE.
2. INSTALL HYDRANTS 4' BACK OF CURB.
3. INSTALL CURB BOX AT THE PROPERTY LINE.
4. PLACE WATER MAIN SERVICES UPSTREAM OF SANITARY SERVICES.

STORM SEWER:

1. INSTALL STORM SEWER 10' SOUTH OR EAST OF CENTERLINE OR UNDER CURB ON OPPOSITE SIDE FROM WATER MAIN.
2. PLACE CATCH BASINS AT THE END OF RADIUS.



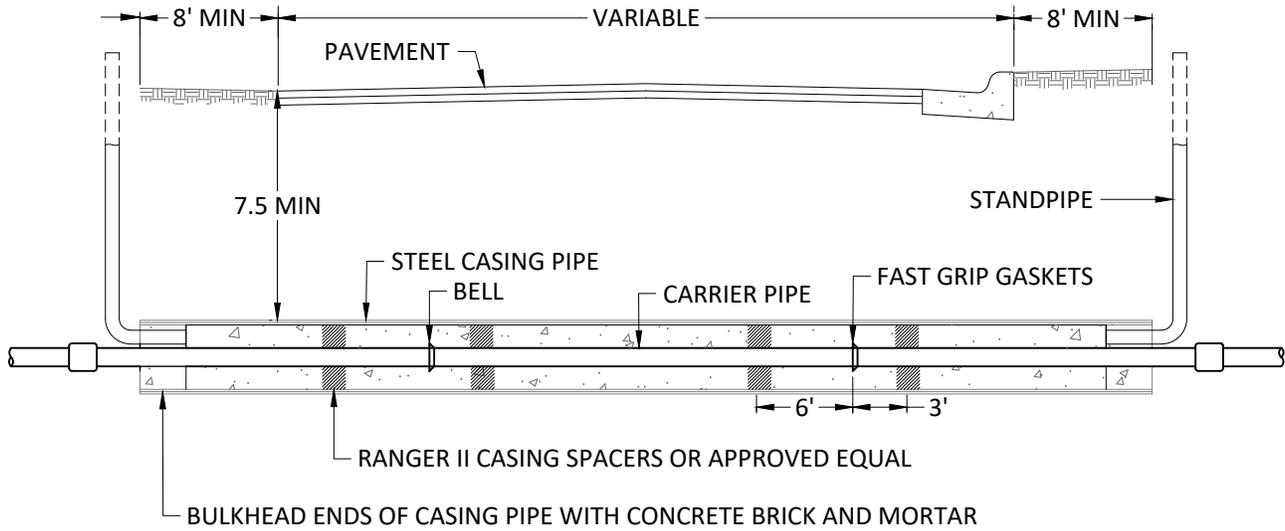
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

INTERSECTION DETAIL

Plate No.

STR-16

Revised 03/23



NOTES:

1. CASING PIPE SHALL BE WELDED STEEL WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI. STEEL CASING PIPE COATING PER ASTM A139, GRADE B RED MILL ON THE INSIDE. THE OUTSIDE OF THE PIPE SHALL BE COAL TAR ENAMEL COATED PER AWWA C203.
2. CUT OFF AND CAP STANDPIPE 2" BELOW FINISHED GRADE.
3. WATER MAIN CONDUCTIVITY SHALL MEET CITY SPEC NO. XXXX.

PIPE SIZE CHART

CARRIER PIPE	CASING DIAMETER	CASING THICKNESS
6"	24"	0.250
8"	24"	0.250
10"	24"	0.312
12"	24"	0.375
18"	30"	0.438
24"	40"	0.500



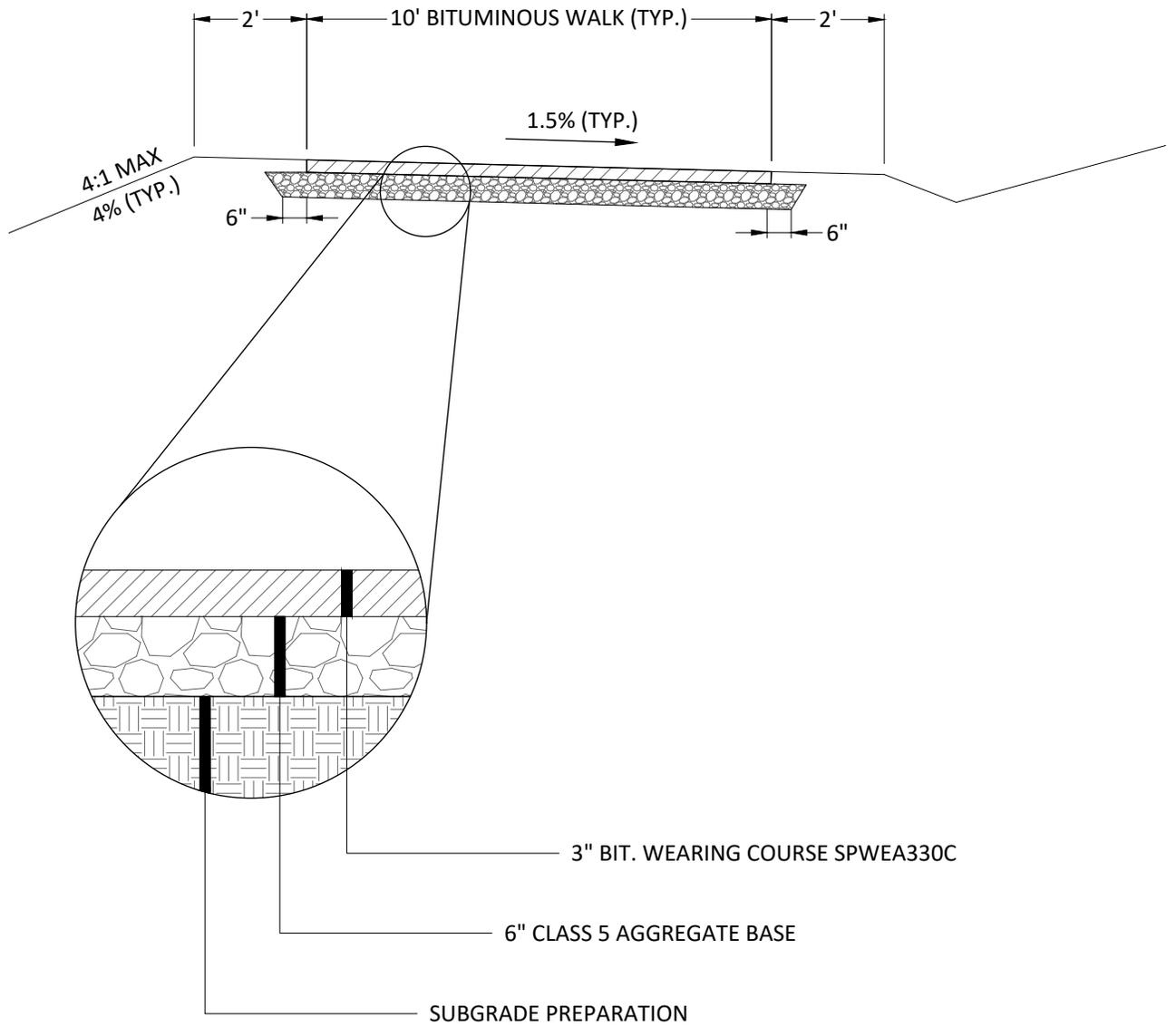
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

JACKING DETAIL

Plate No.

STR-17

Revised 02/23



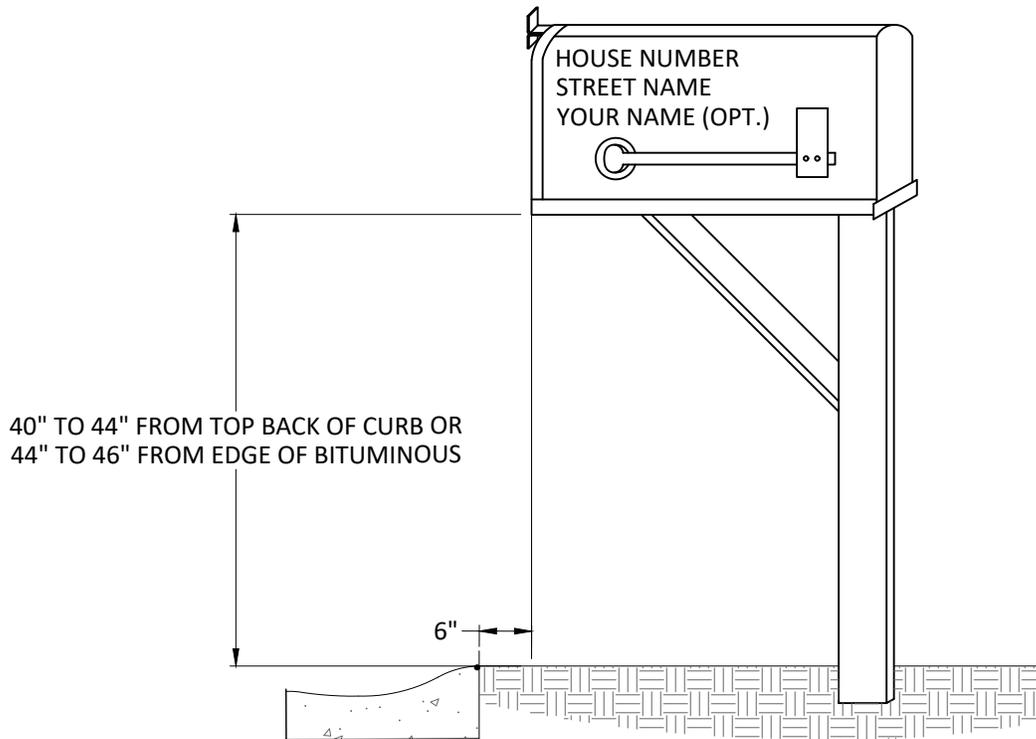
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

BITUMINOUS WALK

Plate No.

STR-18

Revised 03/23



NOTES:

1. EXTEND BOX AS FAR IN FRONT OF SUPPORT POST AS POSSIBLE TO PREVENT SNOW PLOW DAMAGE.
2. LIST NAME AND ADDRESS ON SIDE OF BOX FROM WHICH CARRIER APPROACHES. LETTERS SHALL BE ABOUT 1" HIGH.
3. PLACE BOX SUCH THAT POSTAL CARRIER CAN SERVE WITHOUT LEAVING VEHICLE.



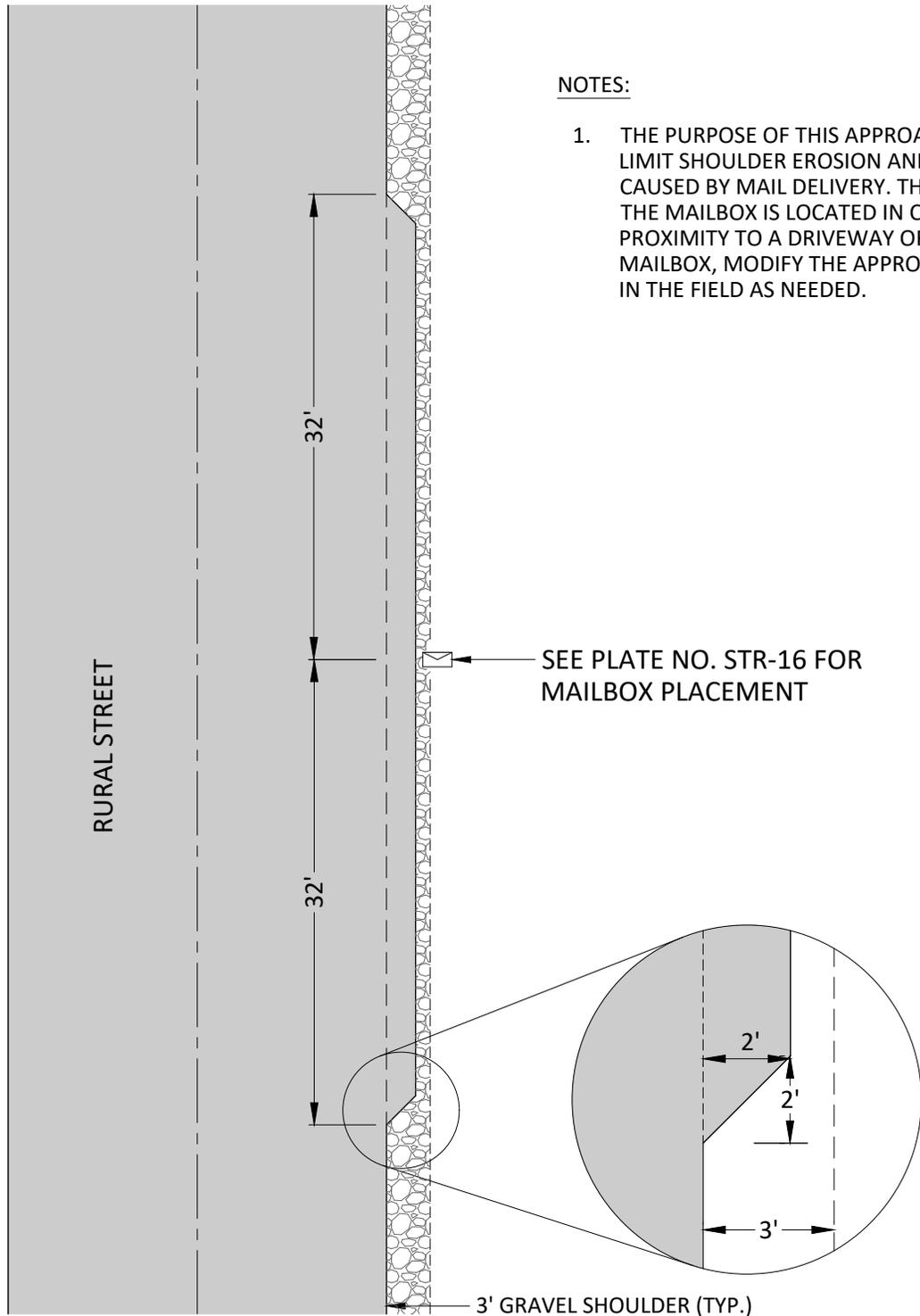
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

MAILBOX INSTALLATION

Plate No.

STR-19

Revised 02/23



NOTES:

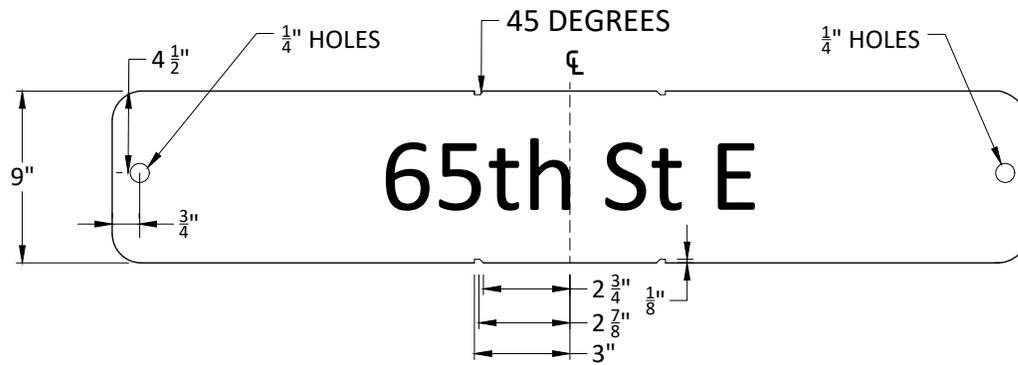
1. THE PURPOSE OF THIS APPROACH IS TO LIMIT SHOULDER EROSION AND TRACKING CAUSED BY MAIL DELIVERY. THEREFORE IF THE MAILBOX IS LOCATED IN CLOSE PROXIMITY TO A DRIVEWAY OR ANOTHER MAILBOX, MODIFY THE APPROACH LENGTH IN THE FIELD AS NEEDED.



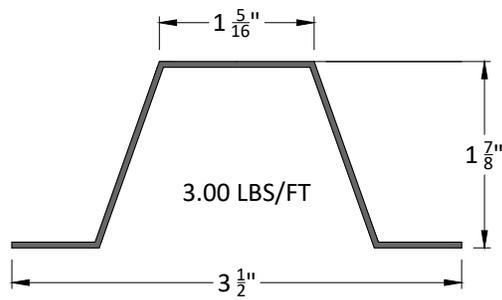
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

RURAL MAILBOX APPROACH

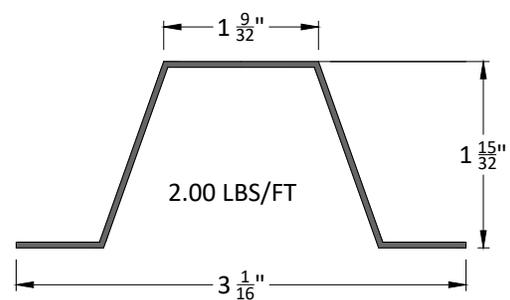
Plate No.
STR-20
Revised 03/23



SIGN DETAIL



BASE POST



EXTENSION POST

POST DETAIL

NOTES:

1. STREET SIGNS SHALL BE DUAL BLADE, MnDOT SIGN SHEETING TYPE XI WITH GREEN TRANSPARENT OVERLAY FILM.
2. BLADES SHALL BE 0.080 THICK AND HAVE 1.5" ROUNDED CORNERS.
3. PUNCH AND NOTCH BLADES.
4. LETTERING ON STREET NAME BLADES SHALL BE 6" AND SHALL BE MnDOT SIGN SHEETING TYPE XI "WHITE" IN COLOR.
5. POST SHALL BE GALVANIZED, NOT PAINTED.
6. BASE POSTS SHALL BE 7' LONG WITH 3' DRIVEN INTO THE GROUND.
7. EXTENSION POSTS SHALL BE 8' LONG.
8. PROVIDE E-450 KIT FOR 9" BLADE (GREEN) FOR CHANNEL POST.

BLADE LENGTH	MAX CHARACTERS
24"	8
30"	10
36"	13
42"	15
48"	17



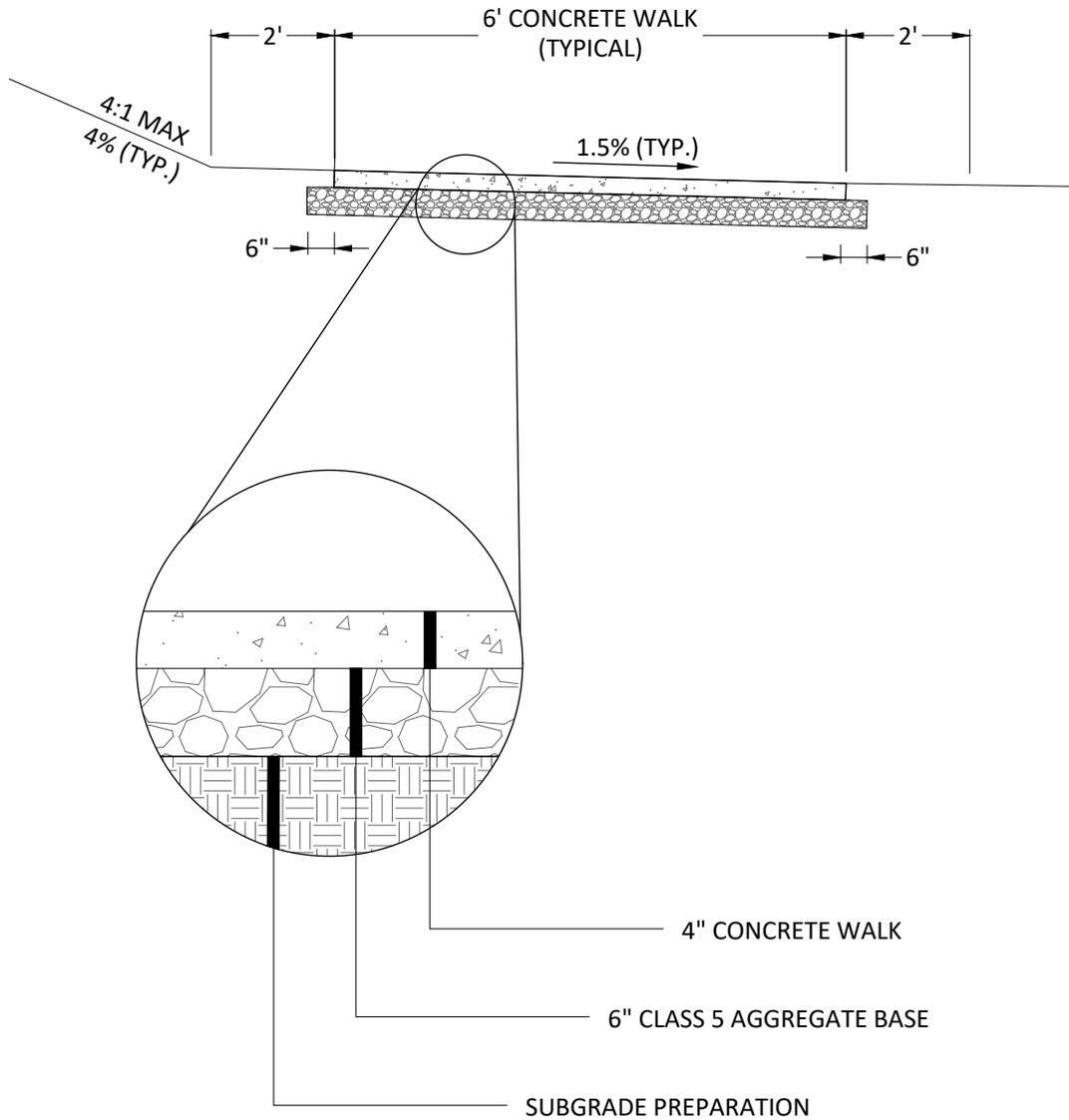
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

STREET SIGNS

Plate No.

STR-21

Revised 03/23



NOTES

1. CONCRETE PANELS SHALL NOT EXCEED 6' SQUARE.
2. INSTALL EXPANSION JOINTS:
 - ALONG ANY ABUTTING BUILDING
 - AT THE INTERSECTION OF TWO WALKS (ONE JOINT ONLY)
 - AROUND ANY STRUCTURE WITHIN THE FLATWORK
 - ALONG ONE SIDE OF ABUTTING CONCRETE DRIVEWAYS



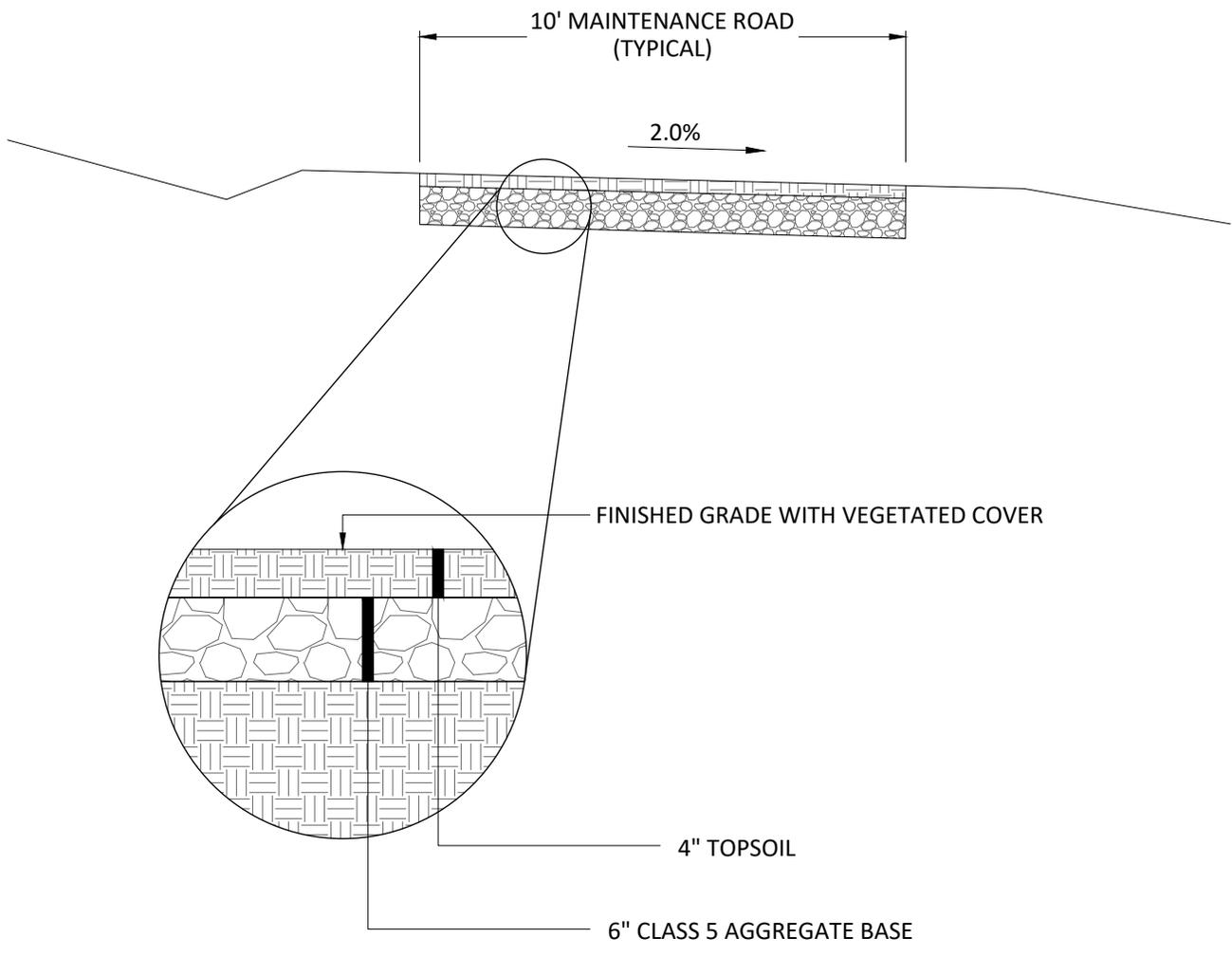
CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

CONCRETE WALK

Plate No.

STR-22

Revised 03/23



CITY OF INVER GROVE HEIGHTS
PUBLIC WORKS ENGINEERING DIVISION

MAINTENANCE ACCESS ROAD

Plate No.

STR-23

Revised 03/23