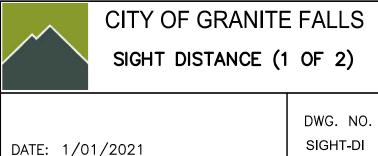


- TREES SHALL NOT BE PLACED IN SUCH A WAY THAT THEY IMPEDE THE SAFE FLOW OF TRAFFIC BY BLOCKING THE VIEW OF TRAFFIC SIGNS, AND/OR IMPEDE PEDESTRIANS AND VEHICLES. ABOVE ARE CITY VISIBILITY STANDARDS.
- 2. LANDSCAPER SHALL COORDINATE WITH SIGN INSTALLER TO ASSURE NO CONFLICT BETWEEN THE TWO WILL BE CREATED.

NOTES FOR EXISTING VEGETATION:

- 1. OVERGROWN VEGETATION IMPEDES THE SAFE FLOW OF TRAFFIC WHEN IT BLOCKS THE VIEW OF TRAFFIC SIGNS, PEDESTRIANS AND OTHER VEHICLES. IF EXISTING VEGETATION IS BLOCKING VISIBILITY IN THE STREET OR AN INTERSECTION, IT IS THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNER OR RESIDENT TO TRIM THE VEGETATION. ABOVE ARE CITY VISIBILITY STANDARDS.
- 2. TO ENSURE SAFE PASSAGE FOR EVERYONE, TREE LIMBS OVER STREETS MUST BE LIMBED UP 14 FEET. LIMBS OVER SIDEWALKS MUST BE LIMBED UP 8 FEET.



ENTERING SIGHT DISTANCE

ENTERING SIGHT DISTANCE MUST EXCEED THOSE SHOWN BELOW FOR THE LEGAL SPEED LIMIT. SUFFICIENT SIGHT DISTANCE IN EACH DIRECTION ALONG A CITY STREET OR ROAD FROM A SIDE STREET, ROAD OR MAJOR DRIVEWAY APPROACH MUST BE PROVIDED TO PERMIT VEHICLES TO SAFELY ENTER THE ROADWAY.

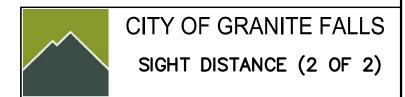
THE FOLLOWING SPEEDS AND ENTERING SIGHT DISTANCE REQUIREMENTS WILL BE APPLICABLE UNLESS UNUSUAL DESIGN OR SAFETY CONSIDERATIONS WARRANT INCREASED SIGHT DISTANCE REQUIREMENTS AS DETERMINED BY THE CITY ENGINEER.

| POSTED/LEGAL ENTERING SPEED (MPH) SIGHT DISTANCE | (FEET) |
|--|--------|
| 25 250 30 300 35 350 40 400 | |

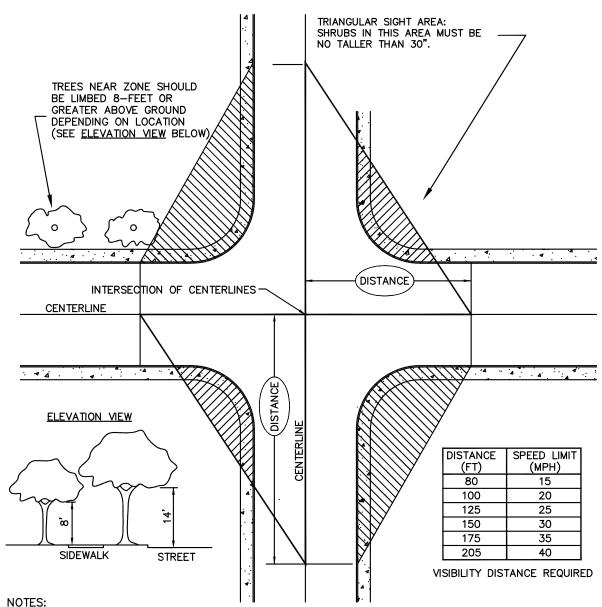
- 1. ENTERING VEHICLE EYE HEIGHT = 3.50 FEET
- 2. APPROACHING VEHICLE HEIGHT = 4.25 FEET
- 3. MAXIMUM ROAD GRADE:

MAJOR AND MINOR ARTERIALS 8% COLLECTOR, LOCAL, AND MINOR ACCESS 15%

4. THE SIGHT DISTANCE IS MEASURED FROM A POINT IN THE APPROACH 10 FEET BACK FROM THE EDGE OF THE TRAVELED ROADWAY AT A VERTICAL HEIGHT OF 3.50 FEET.



DWG. NO. SIGHT-DI



NOTES:

- 1. TREES SHALL NOT BE PLACED IN SUCH A WAY THAT THEY IMPEDE THE SAFE FLOW OF TRAFFIC BY BLOCKING THE VIEW OF TRAFFIC SIGNS, AND/OR IMPEDE PEDESTRIANS AND VEHICLES.
- A DISTANCE ADJUSTMENT FACTOR SHALL BE APPLIED WHEN SLOPE EXCEEDS 6%.
- DISTANCE AS MEASURED ALONG THE CENTERLINE OF THE ROAD PER THE SPEED LIMIT ON EACH ROAD.

NOTES FOR EXISTING VEGETATION:

- OVERGROWN VEGETATION IMPEDES THE SAFE FLOW OF TRAFFIC WHEN IT BLOCKS THE VIEW OF TRAFFIC SIGNS, PEDESTRIANS AND OTHER VEHICLES. IF EXISTING VEGETATION IS BLOCKING VISIBILITY IN THE STREET OR AN INTERSECTION, IT IS THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNER OR RESIDENT TO TRIM THE VEGETATION.
- 2. TO ENSURE SAFE PASSAGE FOR EVERYONE, TREE LIMBS OVER STREETS MUST BE LIMBED UP 14 FEET. LIMBS OVER SIDEWALKS MUST BE LIMBED UP 8 FEET.

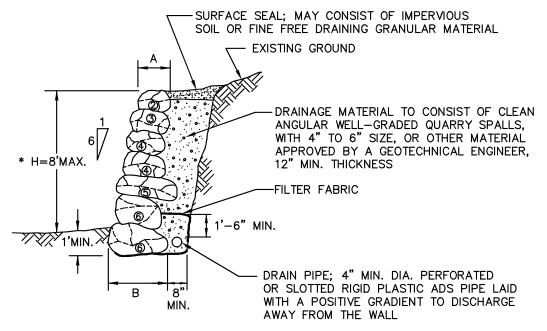
SOURCE:

A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2011



CITY OF GRANITE FALLS SIGHT DISTANCE UNCONTROLLED INTERSECTION

DWG. NO. SIGHT-DI-UC



SECTION

| SIZE | APPROXIMATE WEIGHT — LBS. | APPROXIMATE DIAMETER |
|-------|------------------------------|-------------------------|
| 1 MAN | 50-200 | 12"- 18" |
| 2 MAN | 200-700 | 18"- 28" |
| 3 MAN | 700-2000 | 28"- 36" |
| 4 MAN | 2000-4000 | 36"- 48" |
| 5 MAN | 4000-6000 | 48"- 54" |
| 6 MAN | 6000-8000 | 54"- 50" |

* NOTE:

4' MIN. HIGH CYCLONE FENCE REQUIRED ABOVE WALL WHEN WALL HEIGHT IS 3' OR GREATER

| Н | В | A | REVISIONS |
|------------------|--------|--------|-----------|
| 6'- 0" OR LESS | 3'- 0" | 2'- 0" | |
| 6'- 0' H≤ 8'- 0" | 4'- 4" | 3'- 0" | |

NOTE:

WALLS OVER 3 FEET HIGH IN CUT/FILL SLOPE, OR IN UNSTABLE SOILS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON

ROCKERY SCHEDULE

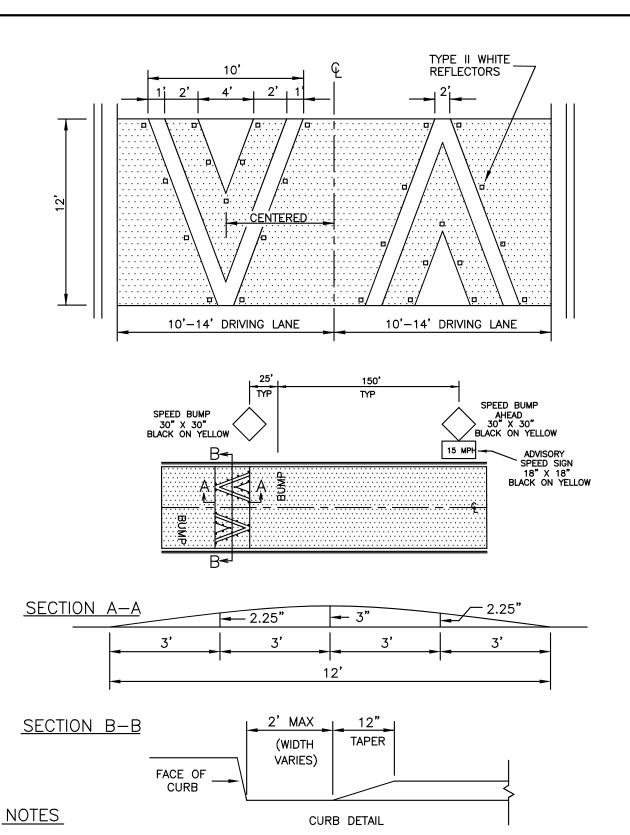
ROCK WALL DETAIL



CITY OF GRANITE FALLS

ROCK WALL DETAIL

DWG. NO.



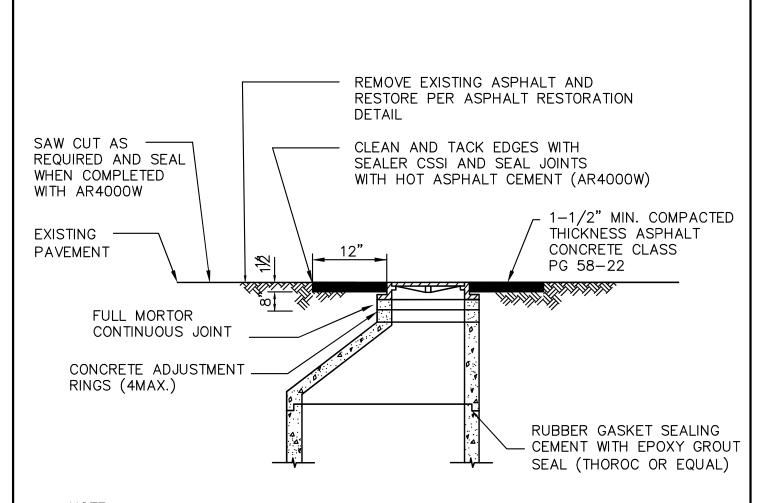
- 1. SIGN AND LEGEND LOCATION SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- 2. LEGEND AND V MARKINGS TO BE TYPE B PRE—FORMED FUSED THERMOPLASTIC.



CITY OF GRANITE FALLS

SPEED HUMP: DESIGN, PAVEMENT MARKING, AND SIGNING

DWG. NO. SPD-HUMP



NOTE:

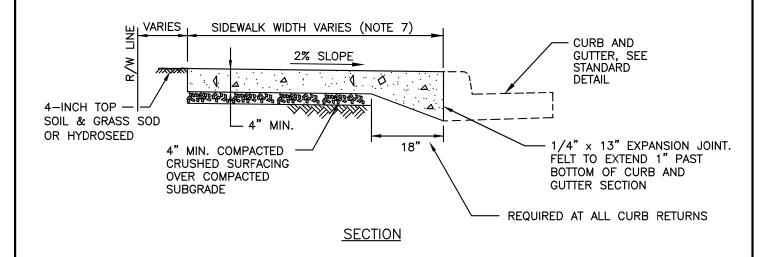
CEMENT CONCRETE COLLAR TO BE 12 INCHES IN THICKNESS ON DESIGNATED TRUCK ROUTES

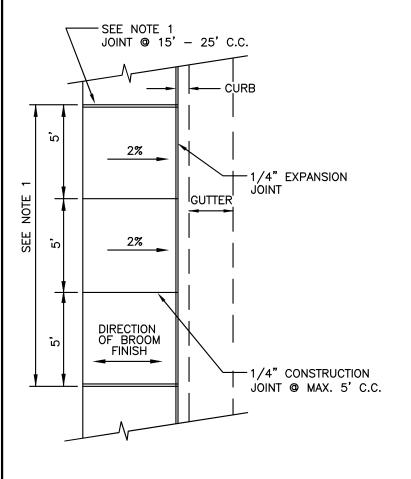


CITY OF GRANITE FALLS

MANHOLE, OR CATCH BASIN (TYPE II)
GRADE ADJUSTMENT DETAIL

DWG. NO. STOM-2





<u>PLAN</u>

NOTES:

- CONTRACTION JOINTS SHALL BE 3/8" x 1 1/2" ASPHALT SATURATED FELT PLACED at 15' - 25' O.C.
- 2. THRU JOINTS SHALL BE 3/8" x 4" ASPHALT SATURATED FELT PLACED AT DRIVEWAYS, ALLEY RETURNS AND ADA RAMPS AND RADIUSES.
- 3. V-GROOVEMARKS SHALL BE 1/8" DEEP AND 1/4" WIDE PLACED AT 5' O.C. FOR 5' SIDEWALKS AND 7 1/2' O.C. FOR 8' SIDEWALKS.
- 4. ALL JOINTS SHALL BE CLEAN AND EDGED TO A 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
- 5. ALL UTILITY POLES AND STREET SIGN POSTS IN SIDEWALK AREA NOT REQUIRED TO BE RELOCATED BY THE CITY ENGINEER SHALL HAVE A SQUARE SECTION OF CONCRETE SURROUNDED BY 3/8" EXPANSION JOINT MATERIAL AROUND THE POLE. THE JOINT SHALL BE NO CLOSER THAN 6" TO ANY SIDE OF THE POLE.
- FORMS SHALL BE EITHER WOOD OR STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
- 7. CONCRETE SHALL BE CLASS 3000.



CITY OF GRANITE FALLS

SIDEWALK WITHOUT PLANTING STRIP

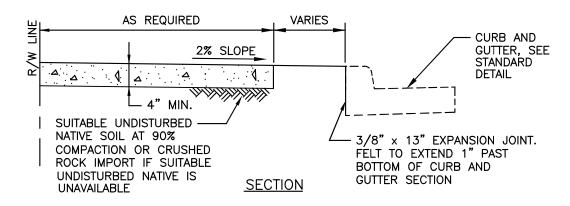
DWG. NO. SW-1

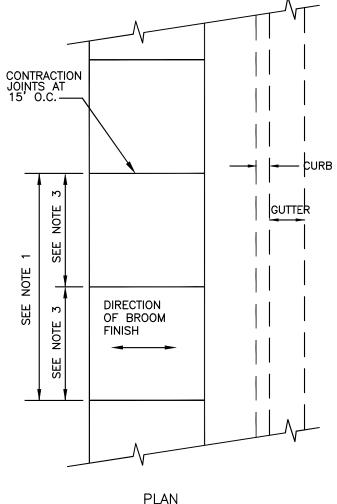
MINIMUM SIDEWALK WIDTHS

(R-2.3, R-9600, R-7200) SINGLE FAMILY RESIDENTIAL AREAS (DETACHED DWELLINGS)

(MR) MULTI-FAMILY RESIDÉNTIAL AREAS

≥ 5' ≥ 6' ≥ 6' (LI, I, IR) INDUSTRIAL AREAS (GC, CBD ZONES) COMMERCIAL AREAS





NOTES:

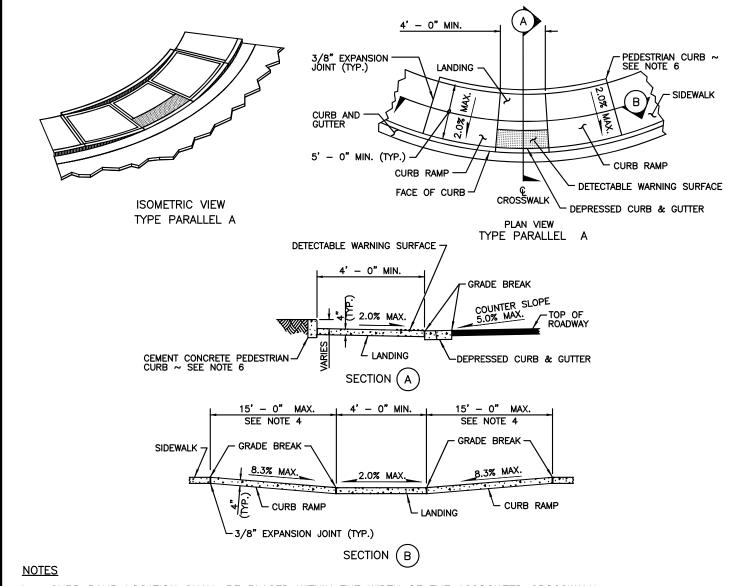
- 1. CONTRACTION JOINTS SHALL BE 3/8" x 1 1/2" ASPHALT SATURATED FELT PLACED at 15' -25'
- 2. THRU JOINTS SHALL BE $3/8" \times 4"$ ASPHALT SATURATED FELT PLACED AT DRIVEWAYS, ALLEY RETURNS AND ADA RAMPS AND RADIUSÉS.
- 3. V-GROOVEMARKS SHALL BE 1/8" DEEP AND 1/4" WIDE PLACED AT 5' O.C. FOR 5' SIDEWALKS AND 7 1/2' O.C. FOR 8' SIDEWALKS.
- 4. ALL JOINTS SHALL BE CLEAN AND EDGED TO A 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
- 5. ALL UTILITY POLES AND STREET SIGN POSTS IN SIDEWALK AREA NOT REQUIRED TO BE RELOCATED BY THE CITY ENGINEER SHALL HAVE A SQUARE SECTION OF CONCRETE SURROUNDED BY 3/8" EXPANSION JOINT MATERIAL AROUND THE POLE. THE JOINT SHALL BE NO CLOSER THAN 6" TO ANY SIDE OF THE POLE.
- FORMS SHALL BE EITHER WOOD OR STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
- 7. CONCRETE SHALL BE CLASS 3000.



CITY OF GRANITE FALLS

SIDEWALK WITH PLANTING STRIP

> DWG. NO. SW-1



- 1. CURB RAMP LOCATION SHALL BE PLACED WITHIN THE WIDTH OF THE ASSOCIATED CROSSWALK.
- 2. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- 4. THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15-FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.
- 5. CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH.
- 6. PEDESTRIAN CURB MAY BE OMITTED IF THE GROUND SURFACE AT THE BACK OF THE CURB RAMP AND/OR LANDING WILL BE AT THE SAME ELEVATION AS THE CURB RAMP OR LANDING AND THERE WILL BE NO MATERIAL TO RETAIN.
- 7. SUBGRADE AND FORM INSPECTION BY THE CITY SHALL BE REQUIRED PRIOR TO POURING CONCRETE.



NOTE:

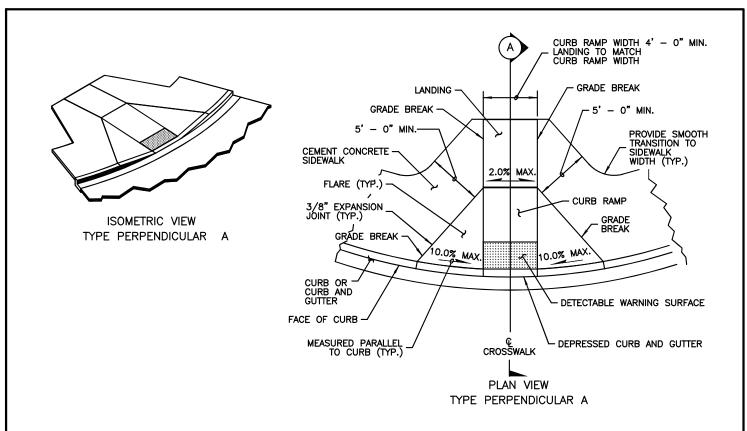
CURB RAMPS SHALL MEET WSDOT DESIGN CRITERIA CURRENT AT THE TIME OF CONSTRUCTION.

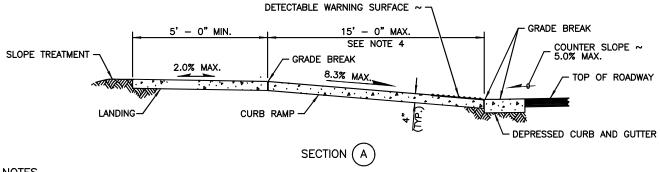


CITY OF GRANITE FALLS

PARALLEL CURB RAMP

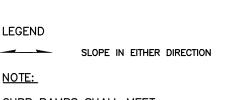
DWG. NO. T-24A PARALLEL CURB

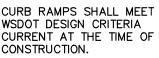




NOTES

- PROVIDE A SEPARATE CURB RAMP FOR EACH MARKED OR UNMARKED CROSSWALK. CURB RAMP LOCATION SHALL BE PLACED WITHIN THE WIDTH OF THE ASSOCIATED CROSSWALK.
- WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE 3. CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15-FEET TO 4. AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15-FOOTMAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL AS FLAT AS FEASIBLE.
- 5. CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH.
- SUBGRADE AND FORM INSPECTION BY THE CITY SHALL BE REQUIRED PRIOR TO POURING CONCRETE. 6.





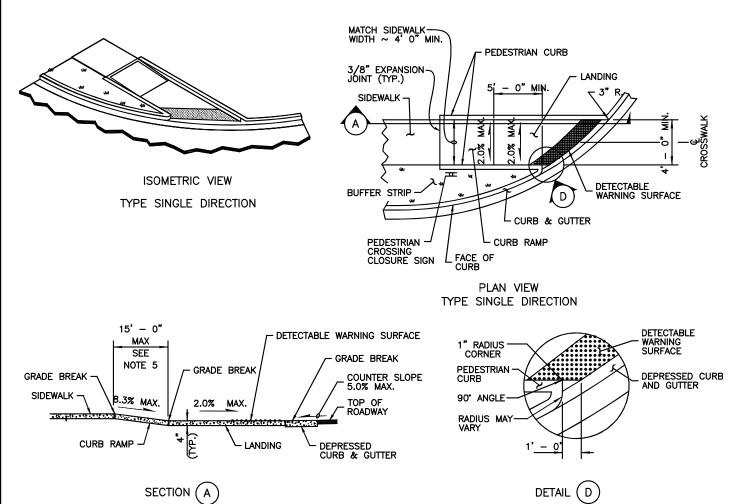


CITY OF GRANITE FALLS

PERPENDICULAR CURB RAMP

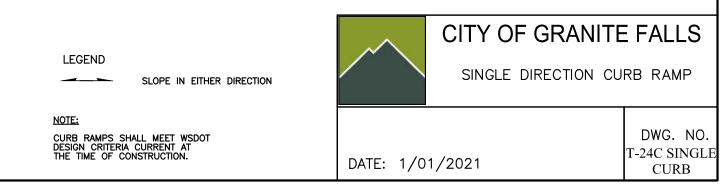
DATE: 1/01/2021

DWG. NO. T-24B PERP **CURB**

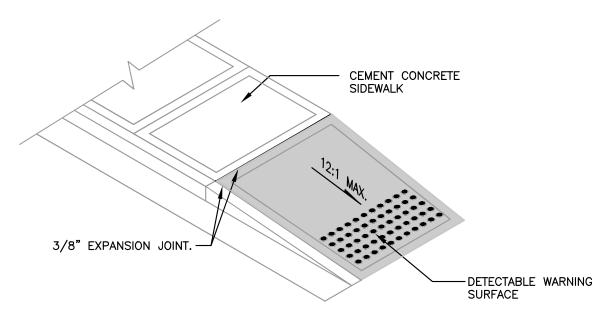


NOTES

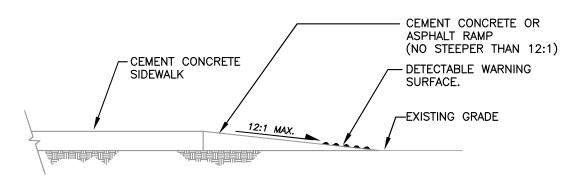
- 1. THIS PLAN IS TO BE USED WHERE PEDESTRIAN CROSSING IN ONE DIRECTION IS NOT PERMITTED.
- CURB RAMP LOCATION SHALL BE PLACED WITHIN THE WIDTH OF THE ASSOCIATED CROSSWALK, OR AS SHOWN IN THE CONTRACT PLANS.
- 3. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
- 4. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- 5. CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.
- 6. CURB RAMPS AND LANDINGS SHALL RECEIVE BROOM FINISH.
- 7. PEDESTRIAN CURB MAY BE OMITTED IF THE GROUND SURFACE AT THE BACK OF THE CURB RAMP AND/OR LANDING WILL BE AT THE SAME ELEVATION AS THE CURB RAMP OR LANDING AND THERE WILL BE NO MATERIAL TO RETAIN.
- 8. SUBGRADE AND FORM INSPECTION BY THE CITY SHALL BE REQUIRED PRIOR TO POURING CONCRETE.



PLAN VIEW



ISOMETRIC VIEW



ELEVATION VIEW

NOTE:

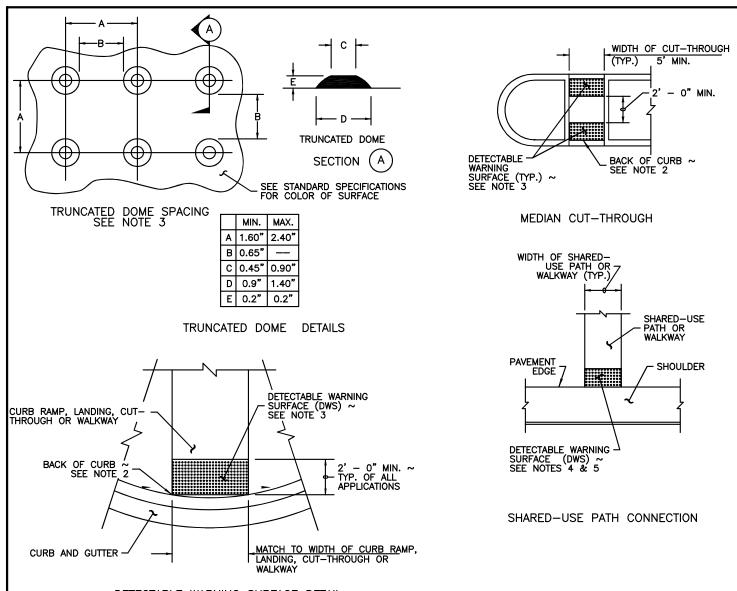
CURB RAMPS SHALL MEET WSDOT DESIGN CRITERIA CURRENT AT THE TIME OF CONSTRUCTION.



CITY OF GRANITE FALLS

SIDEWALK RAMP TO SHOULDER

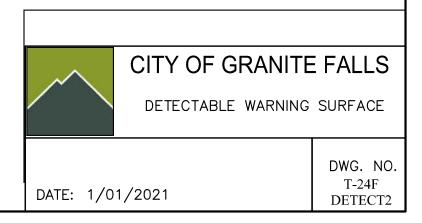
DWG. NO. T-24D SWALK RAMP

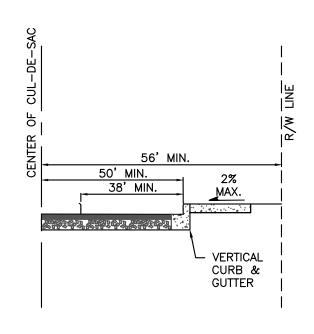


DETECTABLE WARNING SURFACE DETAIL

NOTES

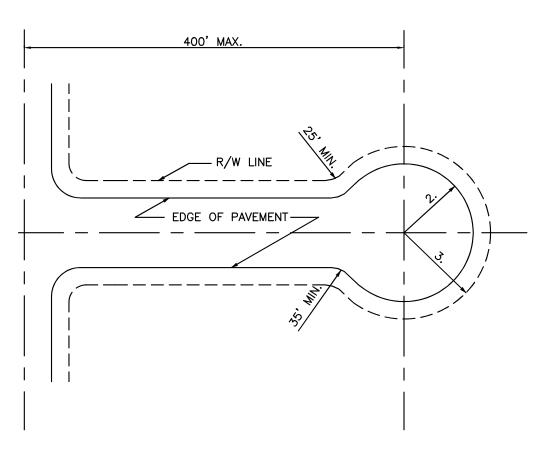
- 1. THE DETECTABLE WARNING SURFACE (DWS) SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES) OR THE LANDING.
- THE DETECTABLE WARNING SURFACE SHALL BE PLACED AT THE BACK OF CURB, AND NEED NOT FOLLOW THE RADIUS.
- 3. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BACK OF CURB.
- 4. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED TO BE PARALLEL TO THE DIRECTION OF TRAVEL.
- IF CURB AND GUTTER ARE NOT PRESENT, SUCH AS A SHARED-USE PATH CONNECTION, THE DETECTABLE WARNING SURFACE SHALL BE PLACED AT THE PAVEMENT EDGE.
- 6. WHEN THE GRADE BREAK BETWEEN THE CURB RAMP AND THE LANDING IS LESS THAN OR EQUAL TO 5 FT. FROM THE BACK OF CURB AT ALL POINTS, PLACE THE DETECTABLE WARNING SURFACE ON THE BOTTOM OF THE CURB RAMP.





NOTES:

- 1. SEE SEC. 5.9 OF THE PUBLIC WORKS STANDARDS.
- 2. R=50'
- 3. R=56'



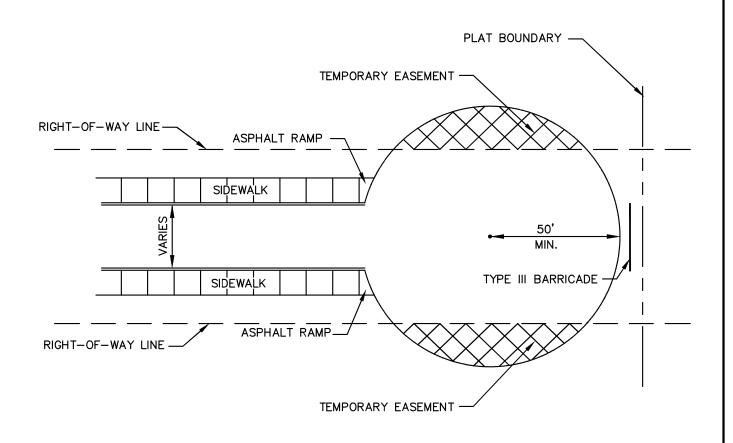


CITY OF GRANITE FALLS

CUL-DE-SAC

DATE: 1/01/2021

DWG. NO. T-5 CULDESAC



NOTES:

- SEE SEC. 5.10 OF THE PUBLIC WORKS STANDARDS.
- 2. BARRICADE REQUIRED AT END OF BULB.

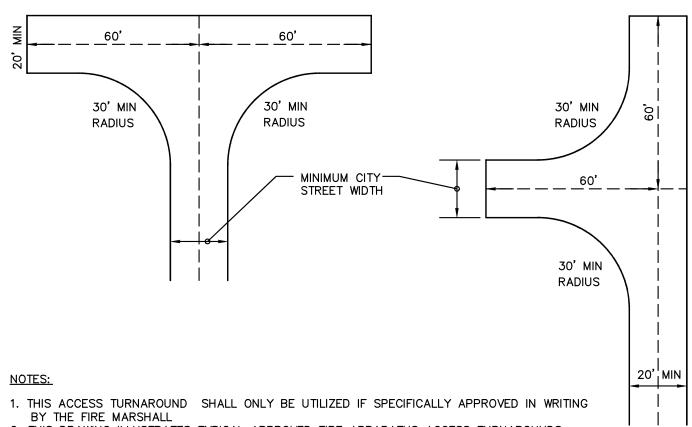


CITY OF GRANITE FALLS

TEMPORARY CUL-DE-SAC

DATE: 1/01/2021

DWG. NO. T-6 TEMP CULDESAC



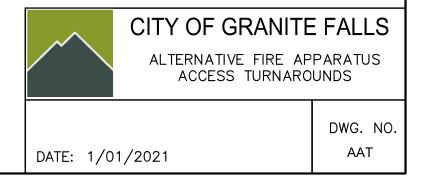
- 2. THIS DRAWING ILLUSTRATES TYPICAL APPROVED FIRE APPARATUS ACCESS TURNAROUNDS.
- THE SIDE ACCESS DESIGN MAY BE RIGHT OR LEFT (LEFT DIRECTION SHOWN).
- 3. ALL DIMENSIONS ARE MINIMUM REQUIREMENTS.
- 4. OTHER SHAPED ACCESS TURNAROUNDS ARE AN ACCEPTABLE ALTERNATIVE TO THOSE SHOWN, PROVIDED THE DESIGN MEETS THE MINIMUM DIMENSION REQUIREMENTS SHOWN ABOVE.
- 5. THE ALTERNATIVE FIRE ACCESS TURNAROUND SHALL BE MARKED AS A FIRE LANE IN ACCORDANCE WITH K.C.C. 17.04.070.
- 6. MINIMUM ROAD WIDTH SHOWN DOES NOT INCLUDE ANY SHOULDER DIMENSIONS OR CURB DIMENSIONS IF REQUIRED.

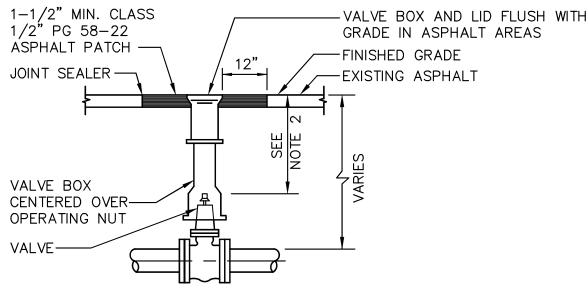
FIRE ACCESS CONTROL:

ALL LEGS OF THE TURNAROUND SHALL BE MARKED AS A FIRE LANE.

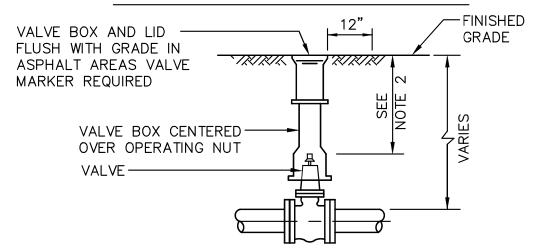
THE TURNAROUND SHALL MEET THE SAME GRADE AND SURFACING STANDARDS APPLIED TO CITY STREETS.

THE MAXIMUM CROSS SLOPE ON THE TURNAROUND SHALL NOT EXCEED SIX PERCENT.





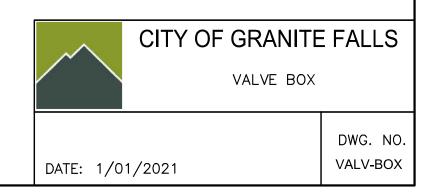
VALVE BOX IN ASPHALT AREA

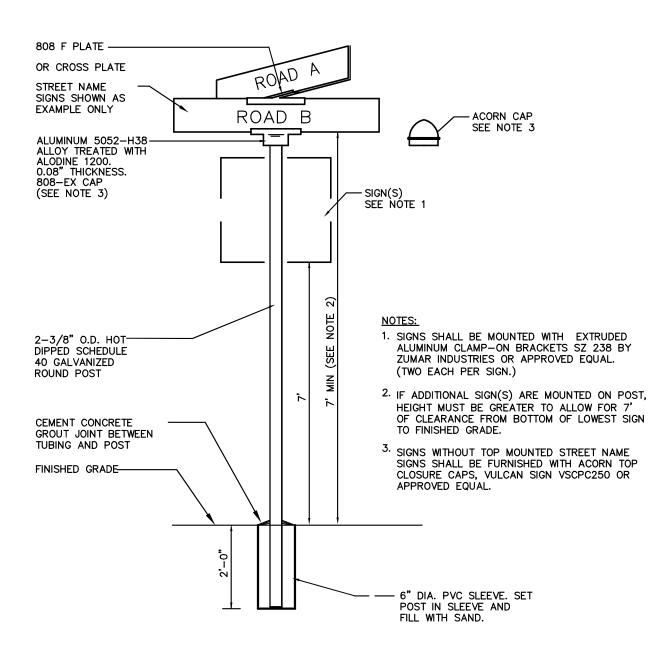


VALVE BOX IN UNIMPROVED AREA

NOTES:

- 1. EACH VALVE SHALL BE PROVIDED WITH AND ADJUSTABLE CAST IRON VALVE BOX OF 5 INCHES (5") INSIDE DIAMETER. VALVE BOXES SHALL HAVE A TOP SECTION WITH AN EIGHTEEN INCH (18") MIN. LENGTH. THE VALVE BOX SHALL BE RICH No. 940 OR APPROVED EQUAL. VALVE BOX EARS SHALL BE PLACED IN LINE WITH PIPE IT SERVES.
- 2. 15" MINIMUM, 36" MAXIMUM FOR OPERATOR NUT. EXTENSION MAY BE REQUIRED.





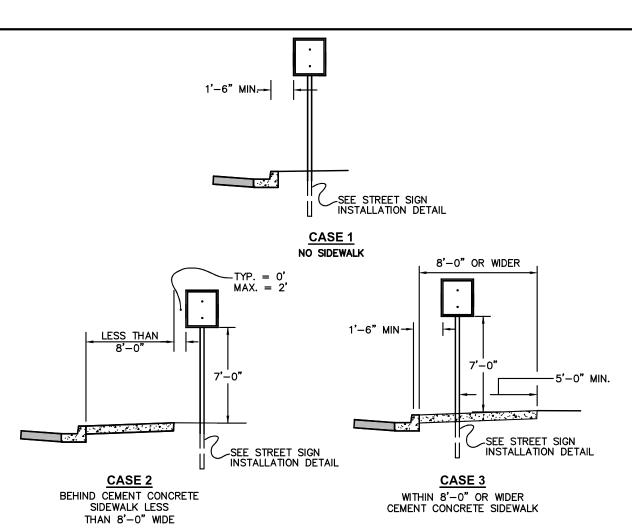
SIGN INSTALLATION DETAIL NTS



CITY OF GRANITE FALLS

SIGN INSTALLATION DETAIL

DWG. NO. ROAD SIGNS



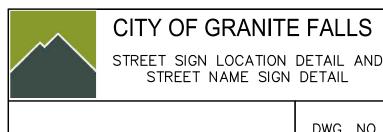
STREET SIGN LOCATION DETAIL NTS



NOTES:

- 1. COLOR SHALL BE WHITE (REFL) ON GREEN
- (REFL). 2. ALL STREET NAME SIGNS SHALL BE DOUBLE SIDED
- 3. STREET NAMES ARE SHOWN FOR EXAMPLE ONLY.
 CONTRACTOR SHALL VERIFY EXACT TEXT WITH
 OWNER PRIOR TO ORDERING SIGNS.

TYPICAL STREET NAME SIGN DETAIL



DWG. NO. **ROAD SIGNS**