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FEBRUARY 2022			
CITY OF VICTORIA STANDAR DETAILS			

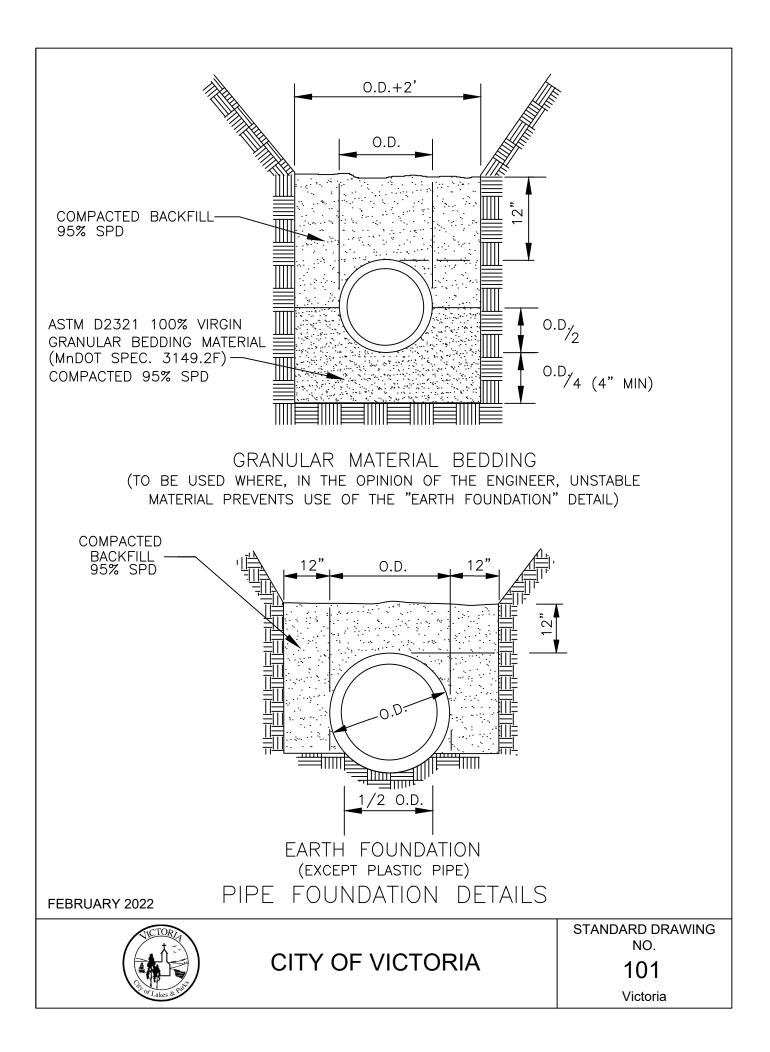
CITY OF VICTORIA STANDARD DETAIL INDEX 900 SERIES - LANDSCAPING 900A STANDARD PLAN NOTES (LANDSCAPE PLANS) CONIFEROUS TREE - MODIFIED/UNMODIFIED SOIL & POORLY DRAINED SOIL 901A CONIFEROUS TREE ON SLOPE 5% TO 50%: MODIFIED AND UNMODIFIED SOIL 901B DECIDUOUS TREE - MODIFIED/UNMODIFIED SOIL & POORLY DRAINED SOIL 902A 902B CONIFEROUS TREE ON SLOPE 5% TO 50%: MODIFIED AND UNMODIFIED SOIL 903A SHRUB - MODIFIED AND UNMODIFIED SOIL SHRUB ON SLOPE 5% TO 50%: MODIFIED AND UNMODIFIED SOIL 903B 904 TREE PROTECTION - MAINTENANCE ROAD & BORING UNDER CROWN/DRIPLINE

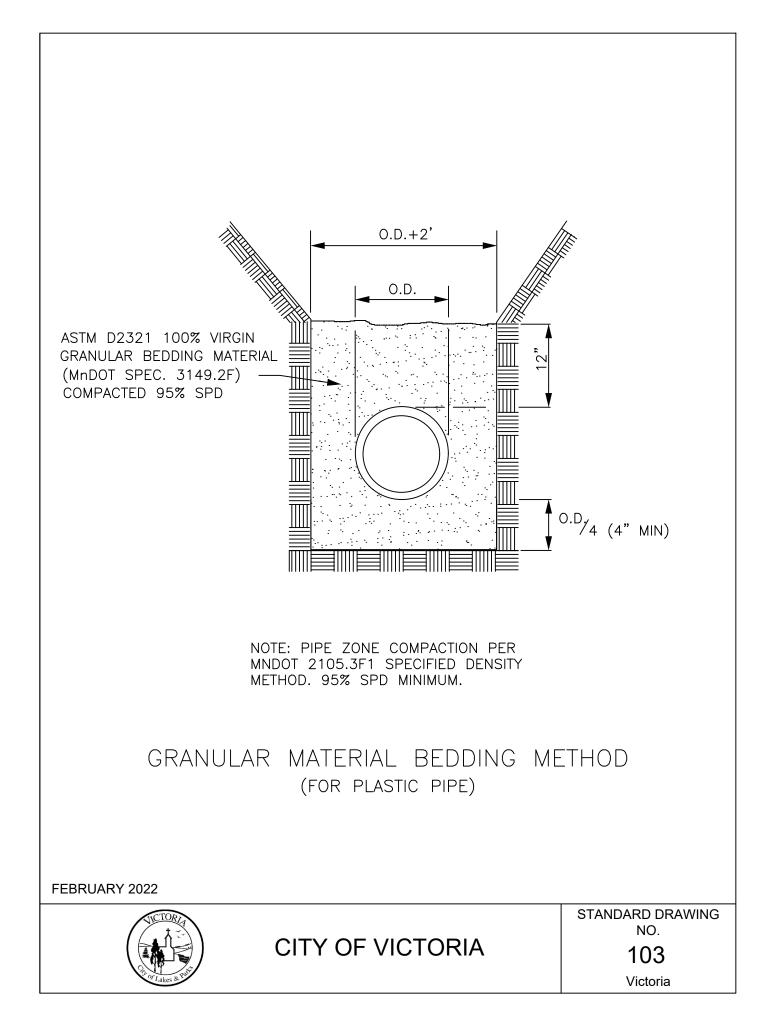
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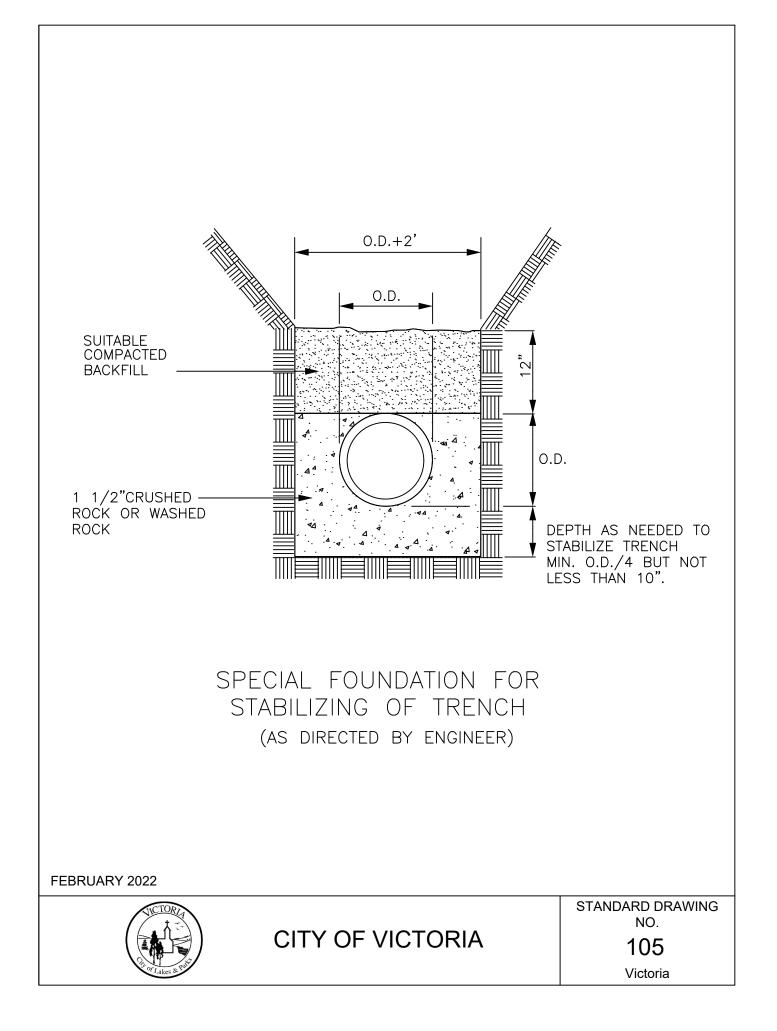


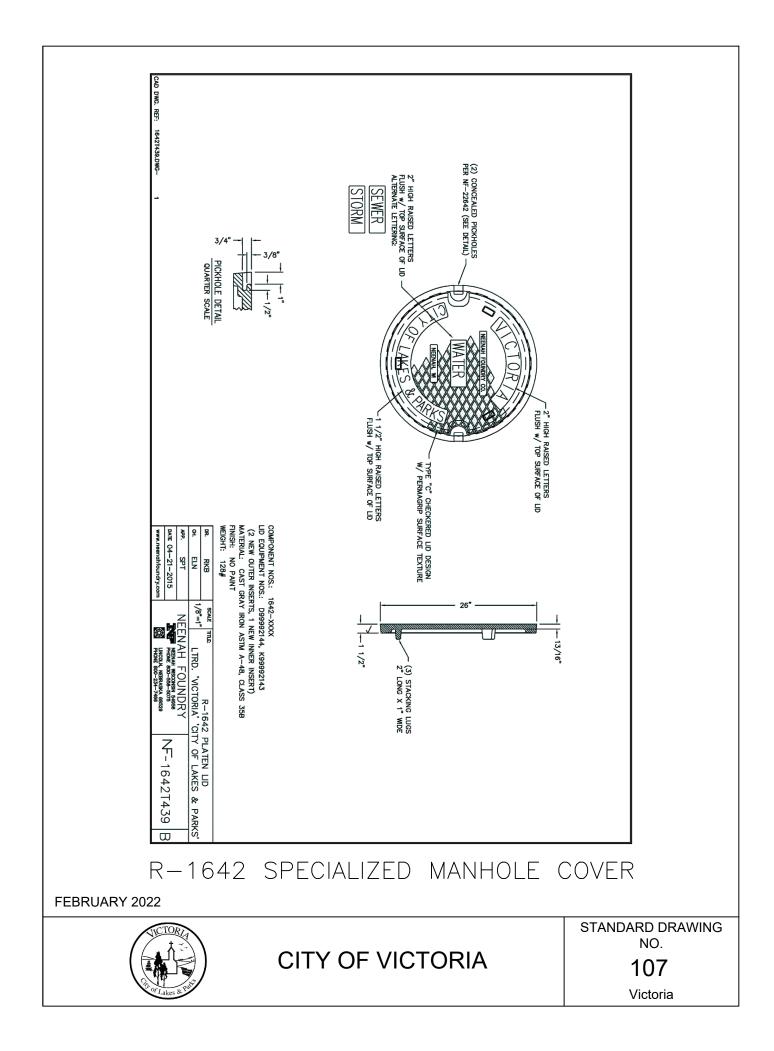
CITY OF VICTORIA

STANDARD DETAILS





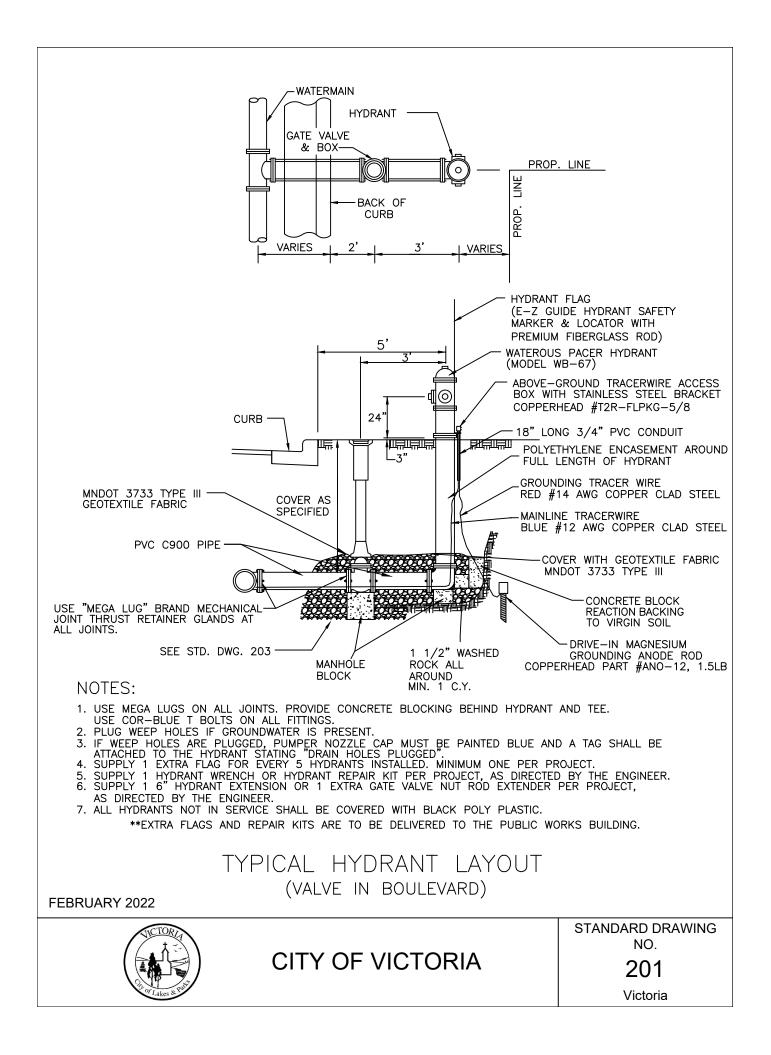


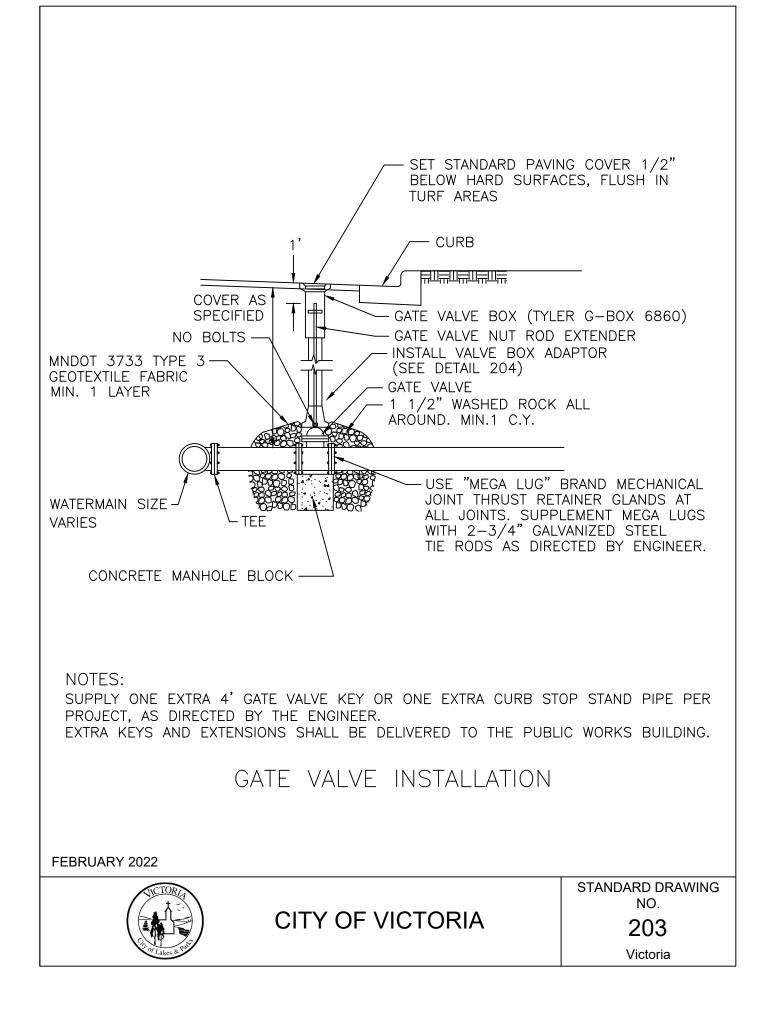


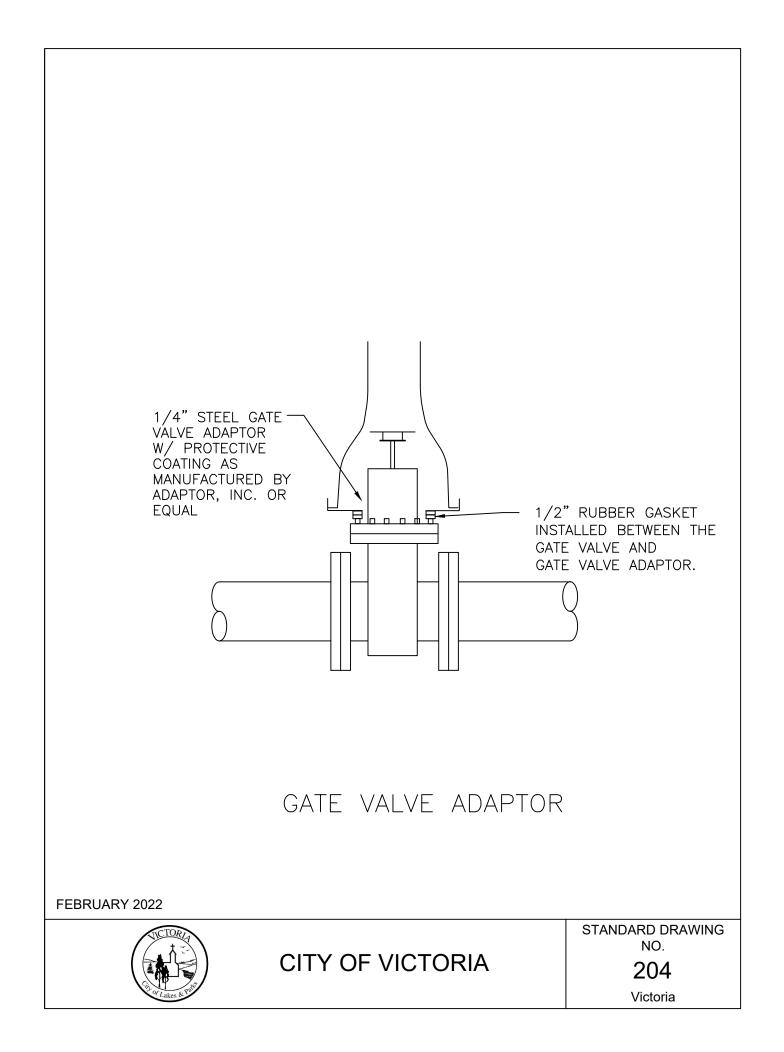
- 1. ALL WATERMAIN AND ACCESSORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF VICTORIA STANDARD SPECIFICATIONS AND DETAILS.
- 2. MANIPULATION OF EXISTING VALVES SHALL BE PERFORMED ONLY BY CITY PERSONNEL.
- 3. WATERMAIN SHALL BE PVC C-900 DR18 WITH #12 AWG COPPER CLAD STEEL HIGH STRENGTH TRACER WIRE, COPPERHEAD PART #1230B-HS, FURNISHED AND INSTALLED THROUGHOUT THE PIPE LENGTH. METALLIC TRACER SHALL BE ATTACHED TO ALL HYDRANTS WITH COPPERHEAD PART #T2R-FLPKG-5/8 OR APPROVED EQUAL.
- 4. ALL FITTINGS SHALL COMPLY WITH CEAM SPEC. 2611.2.A.1. ALL FITTINGS SHALL BE DUCTILE IRON PIPE WITH POLYETHYLENE ENCASEMENT. ALL CONNECTIONS SHALL BE INSTALLED UTILIZING COR-BLUE NUTS & BOLTS.
- 5. NO BENDING OF PVC WATER MAIN SHALL BE ALLOWED, FITTINGS MUST BE USED TO FACILITATE ANY CHANGES IN DEPTH OR HORIZONTAL ALIGNMENT.
- 6. USE GATE VALVES FOR ALL APPLICATIONS UP THROUGH 12 INCHES.
- 7. GATE VALVES SHALL BE RESILIENT WEDGE, AMERICAN FLOW CONTROL SERIES 2500 OR APPROVED EQUAL. GATE VALVES MUST COMPLY WITH CEAM SPEC 2611.2, C.2.
- 8. USE BUTTERFLY VALVES FOR ALL APPLICATIONS GREATER THAN 12 INCHES.
- 9. BUTTERFLY VALVES SHALL BE MUELLER LINESEAL III, OR APPROVED EQUAL. BUTTERFLY VALVES SHALL COMPLY WITH CEAM SPEC. 2611.2, C.3.
- 10. BOLTS AND NUTS ON ALL VALVES AND HYDRANTS SHALL BE STAINLESS STEEL.
- 11. USE GATE VALVE NUT ROD EXTENDER TO BRING OPERATING NUT TO WITHIN 12 INCHES OF SURFACE.
- 12. ALL HYDRANTS SHALL BE INSTALLED 5.0 FEET BACK OF CURB.
- 13. HYDRANTS SHALL BE WATEROUS "PACER," MODEL WB-67 OR APPROVED EQUAL, FITTED WITH E-Z GUIDE HYDRANT SAFETY MARKER & LOCATOR WITH PREMIUM FIBERGLASS ROD AND PAINTED RED.
- 14. HYDRANTS SHALL HAVE A 5-1/4-IN VALVE OPENING, TWO OUTLET NOZZLES FOR 2-1/2-IN D. HOSE CONNECTIONS AND ONE 4-1/2-IN D. PUMPER CONNECTION.
- 15. THE CURB STOP SERVICE ASSEMBLY SHALL HAVE A MINIMUM 1-FT ADJUSTMENT RANGE AND SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE FULLY EXTENDED AND SHALL INCLUDE EXTENSION ROD.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER TO HOMES AND BUSINESSES WHOSE WATER SUPPLY IS DISRUPTED DURING THE COURSE OF THE PROJECT.
- 17. PER ENGINEERING SPECIFICATIONS SECTION 3310 WATER DISTRIBUTION, PRODUCTS, ARTICLE 19, EXTRA WATERMAIN ITEMS SHALL BE SUPPLIED AND DELIVERED TO PUBLIC

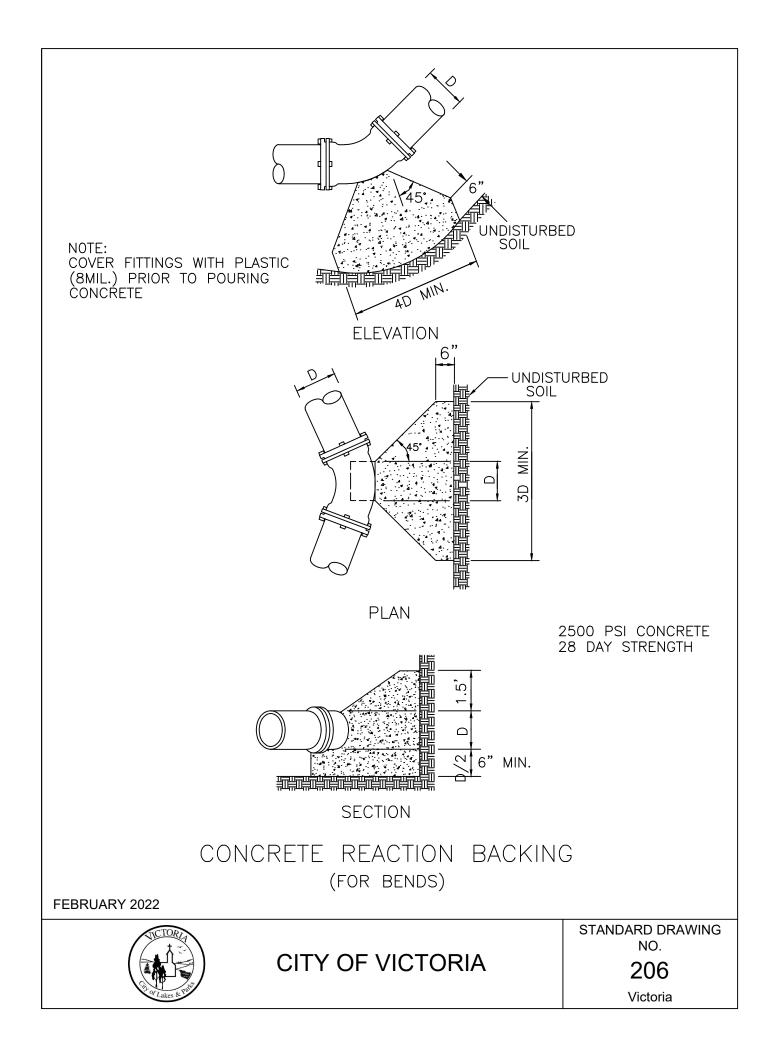
	CITY OF VICTORIA	STANDARD DRAWING NO. 200A
FEBRUARY 2022	WATERMAIN PLANS	
	STANDARD PLAN NOTES	
WORKS, AS DIRECTE	D BY THE ENGINEER.	

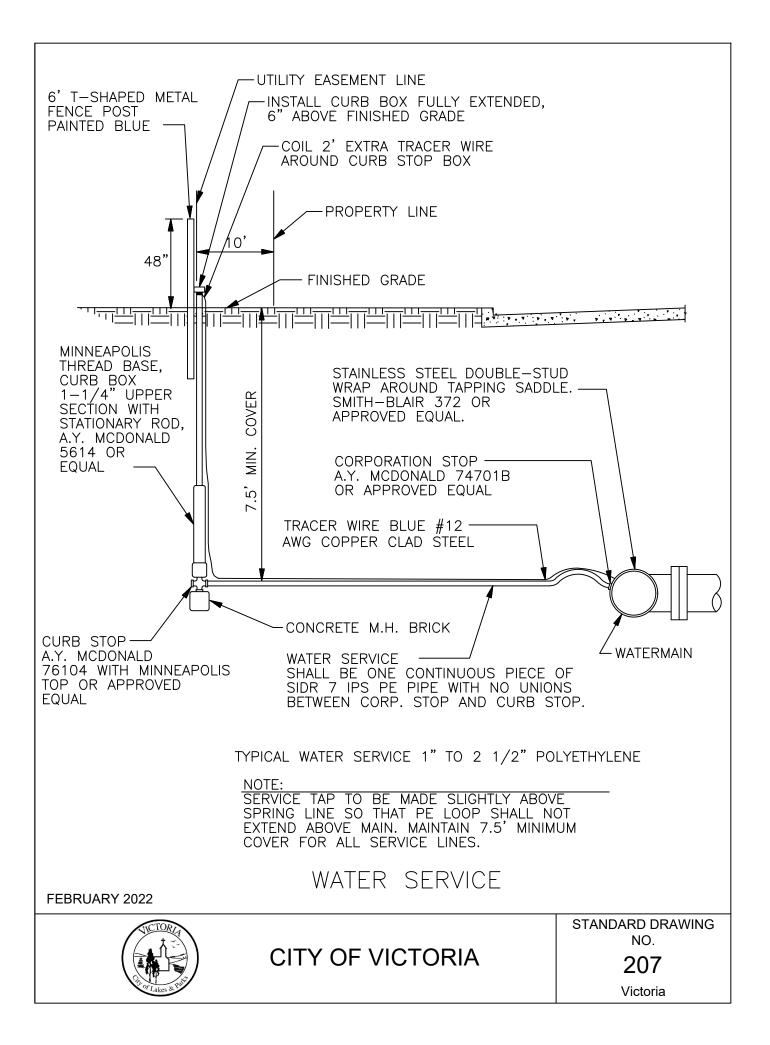
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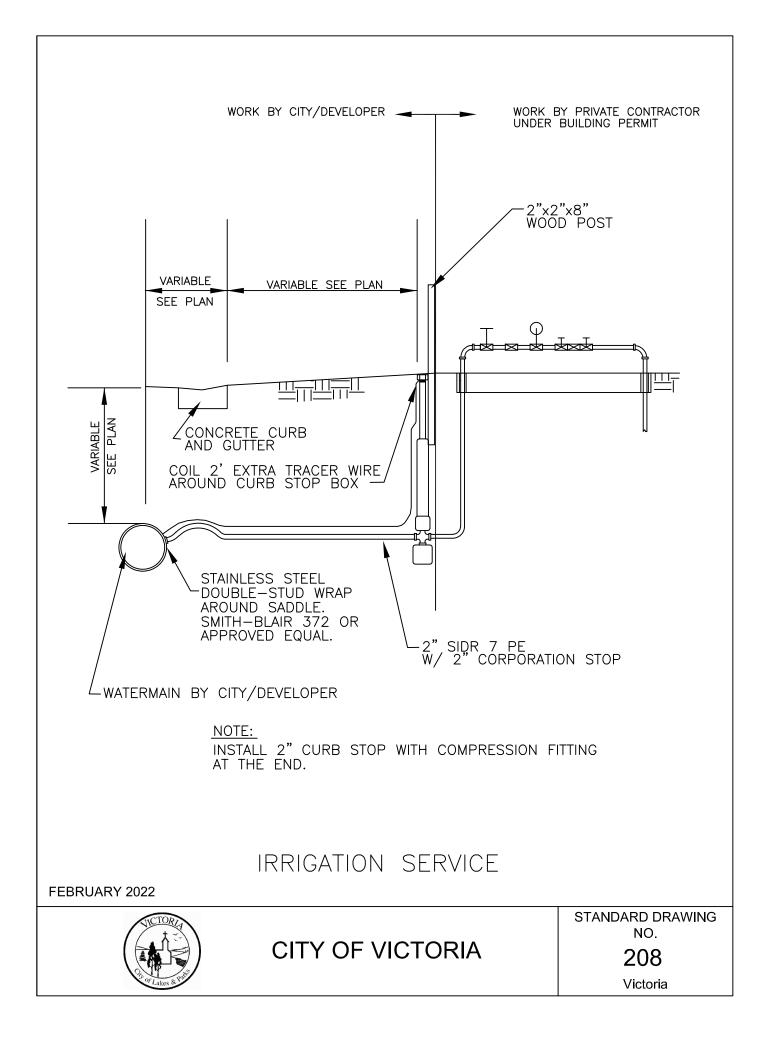


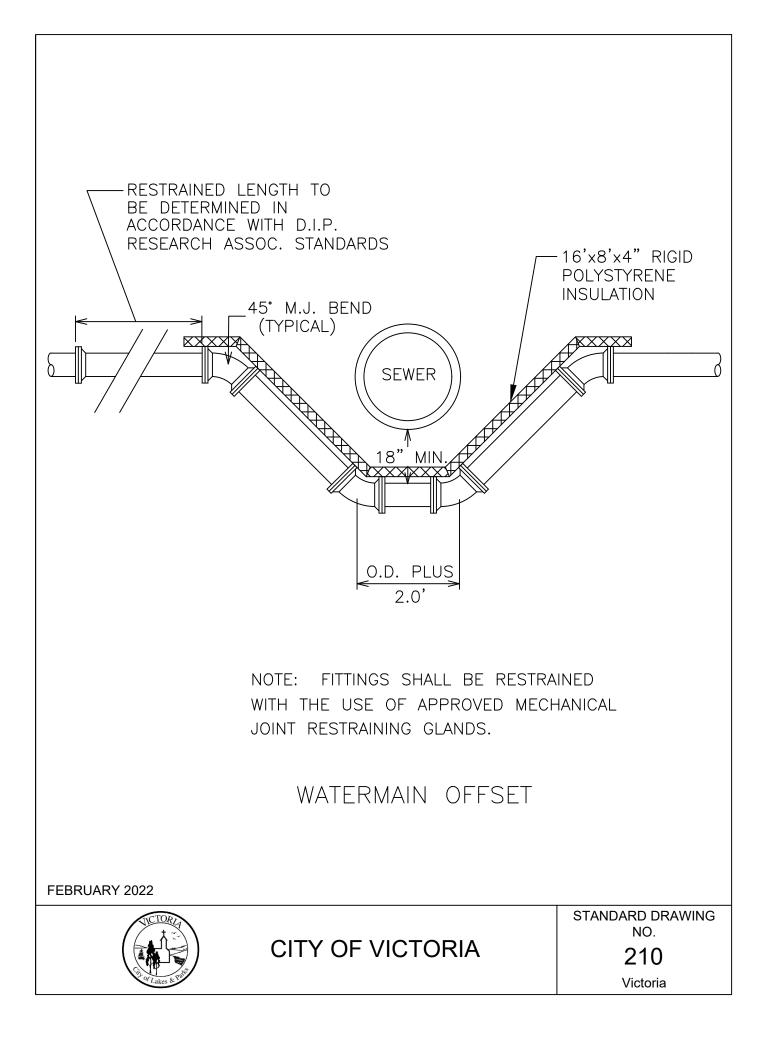


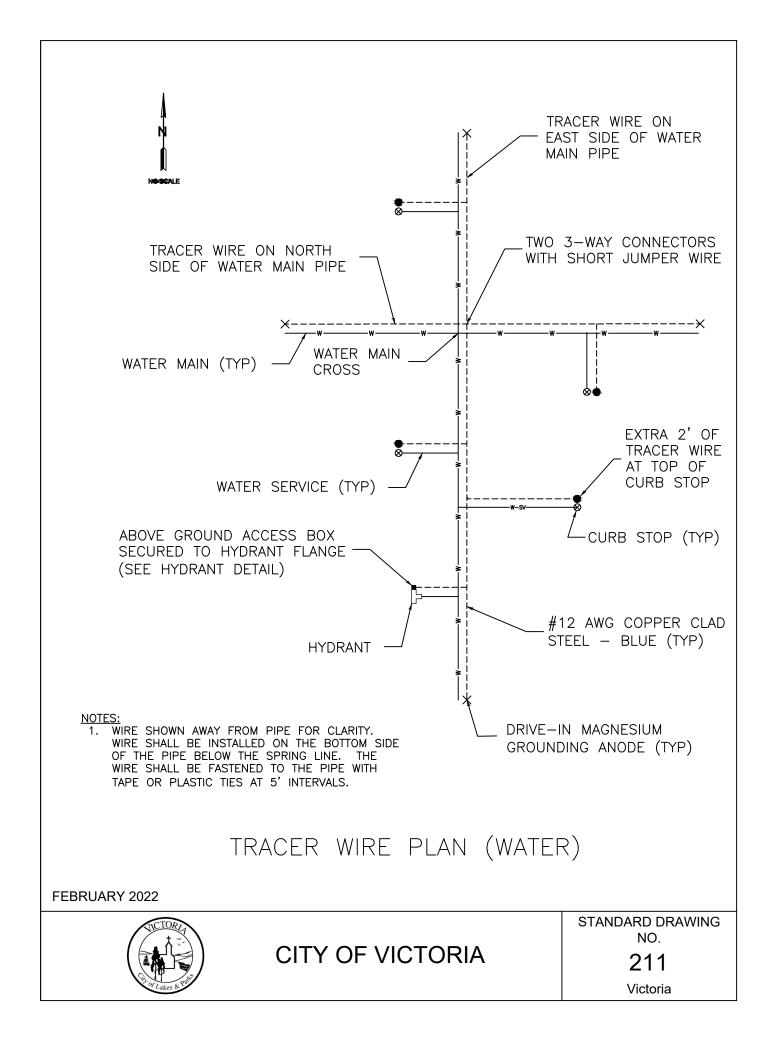












- 1. ALL SANITARY SEWER AND ACCESSORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF VICTORIA STANDARD SPECIFICATIONS AND DETAILS.
- 2. ALL SANITARY SEWER PVC PIPE SHALL BE INSTALLED ACCORDING TO CITY STANDARD DRAWING 103 "GRANULAR MATERIAL BEDDING METHOD" (FOR PVC SANITARY SEWER PIPE).
- 3. UNLESS NOTED OTHERWISE, ALL SMOOTH WALLED SANITARY SEWER PVC PIPE AND FITTINGS SHALL BE SDR 35 UP TO 20 FT IN DEPTH; SDR 26 FOR DEPTH BETWEEN 20 FT AND AND 25 FT; AND WILL BE PROJECT SPECIFIC FOR DEPTHS OVER 25 FT, WITH ELASTOMERIC GASKETED JOINTS.
- 4. ALL SANITARY SEWER SERVICES SHALL BE 4-INCH PVC, SCH. 40.
- 5. SMOOTH WALLED PVC PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF ASTM D-3034 FOR THE SIZE, STANDARD DIMENSION RATIO (SDR), AND STRENGTH REQUIREMENTS INDICATED ON THE PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
- 6. REINFORCED CONCRETE PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF MnDOT SPEC 3236 (REINFORCED CONCRETE PIPE) FOR THE TYPE, SIZE, AND STRENGTH CLASS SPECIFIED HEREIN.
- 7. JOINTS OF MANHOLE RISER SECTIONS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING JOINTS PROVIDED ON ALL SANITARY SEWER MANHOLES, AND SHALL BE SEALED WITH MASTIC AND "INFI-SHIELD" 12" WIDE EXTERNAL SEAL WRAP OR APPROVED EQUAL.
- 8. SANITARY SEWER INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED, FLEXIBLE, WATERTIGHT CONNECTION TO ALLOW DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE TO TAKE PLACE.
- 9. A 1'-0" TO 1'-6" MANHOLE SECTION SHALL BE INSTALLED UNDER THE CONE SECTION TO ALLOW FOR HEIGHT ADJUSTMENT WHENEVER POSSIBLE.
- 10. ALL SERVICE LINE STUBS MUST HAVE A 2"x2" HARDWOOD MARKER WITH METAL SPIKE RUNNING FROM THE END OF PIPE TO FINISHED GRADE ELEVATION.
- 11. UPON MAKING A CONNECTION TO AN EXISTING SANITARY SEWER STUB OR MANHOLE, DIRT AND DEBRIS SHALL BE PREVENTED FROM ENTERING THE EXISTING SEWER BY IMMEDIATELY INSTALLING WATERTIGHT PLUGS AS NEEDED IN THE EXISTING MANHOLE.
- 12. ALL NEW SANITARY SEWER PIPE SHALL BE FLUSHED AND TELEVISED PRIOR TO SUBSTANTIAL COMPLETION SEE SPECIFICATION SECTION 1700 CLOSEOUT REQUIREMENTS.
- 13. ANY UTILITY MORTAR SHALL MEET ASTM C270 AND C1714. SPEC MIX UNDERGROUND UTILITY MORTAR OR APPROVED EQUAL

STANDARD PLAN NOTES

SANITARY SEWER PLANS

FEBRUARY 2022

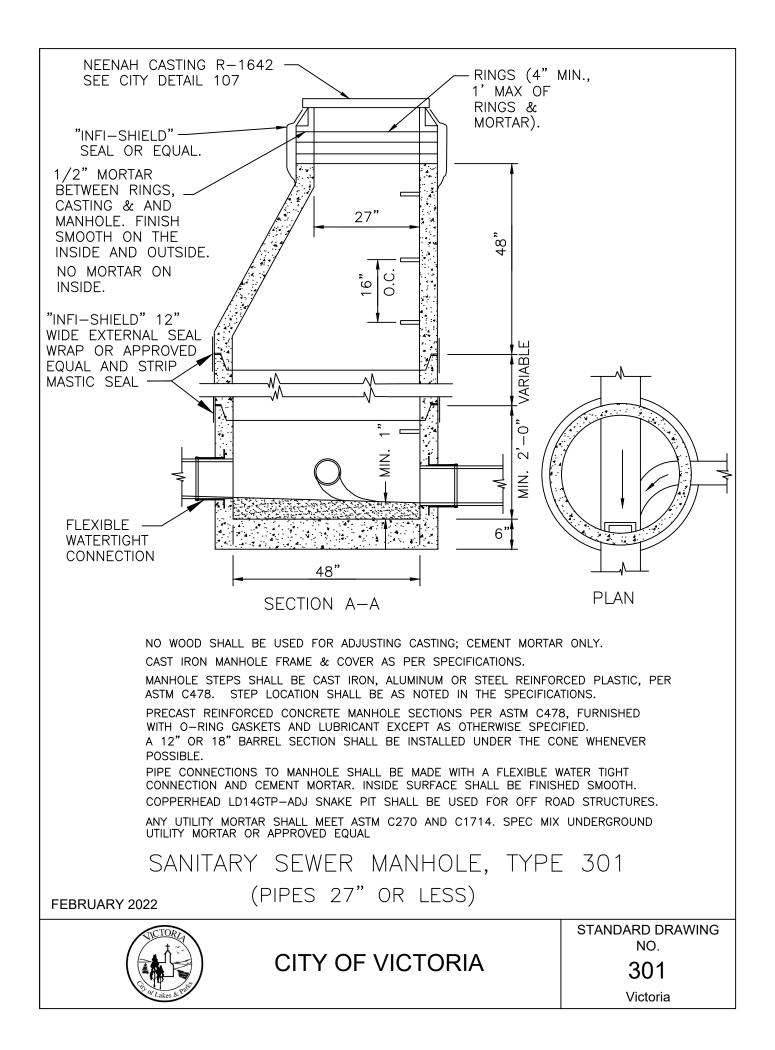


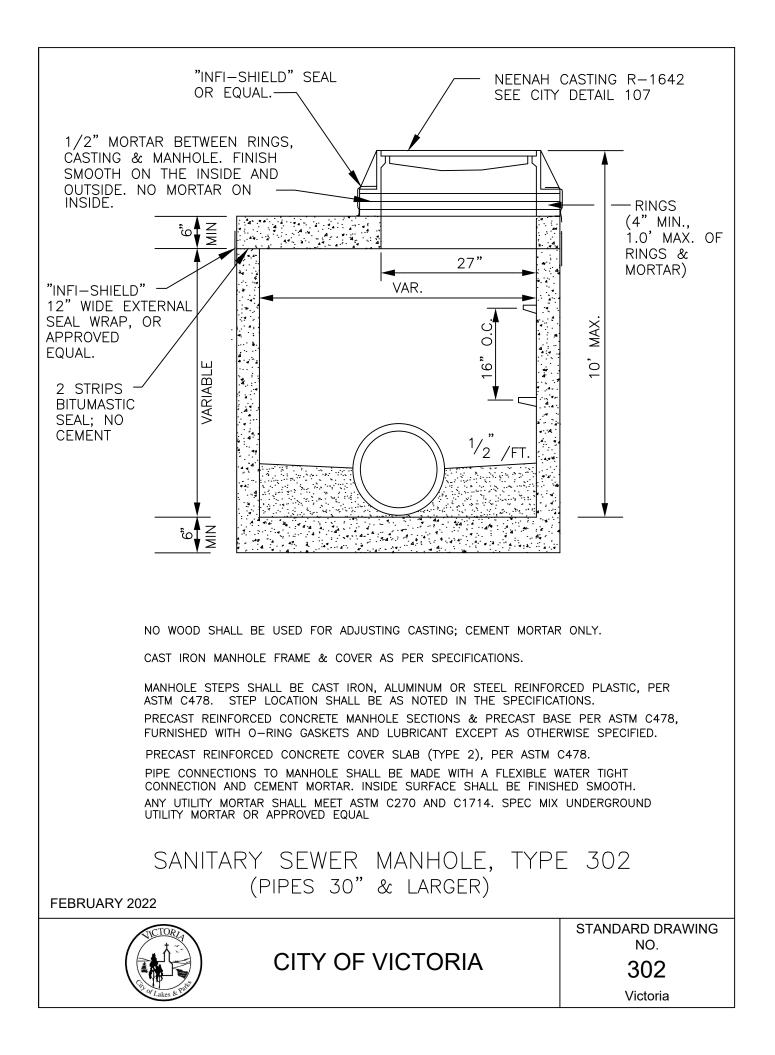
CITY OF VICTORIA

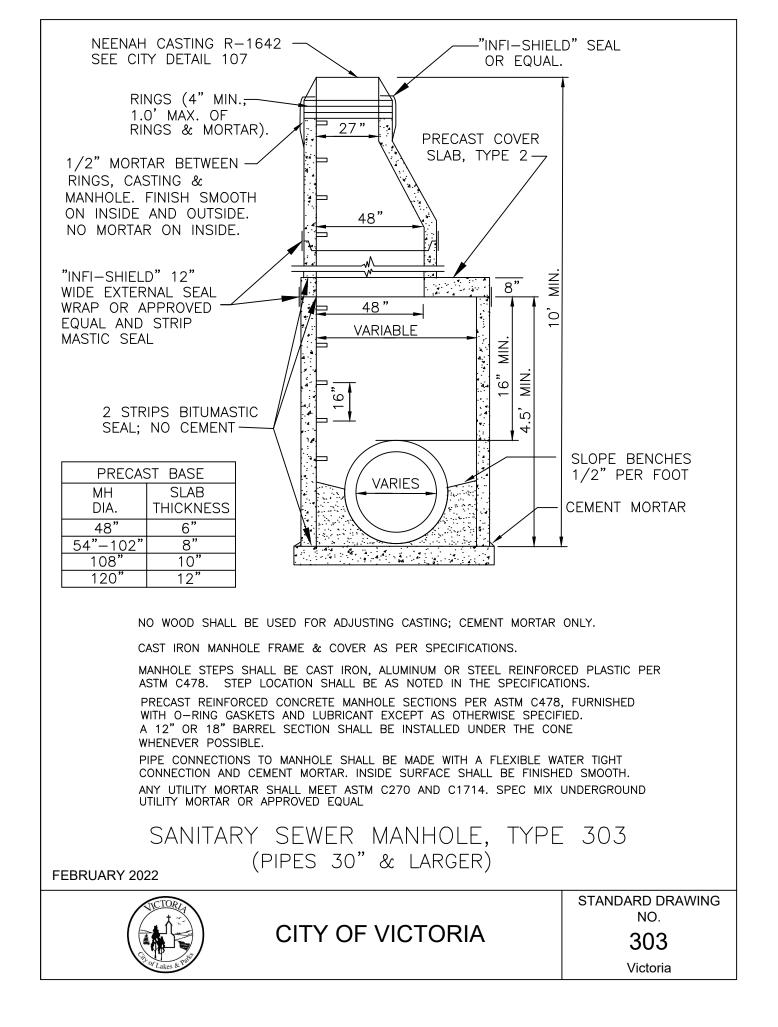
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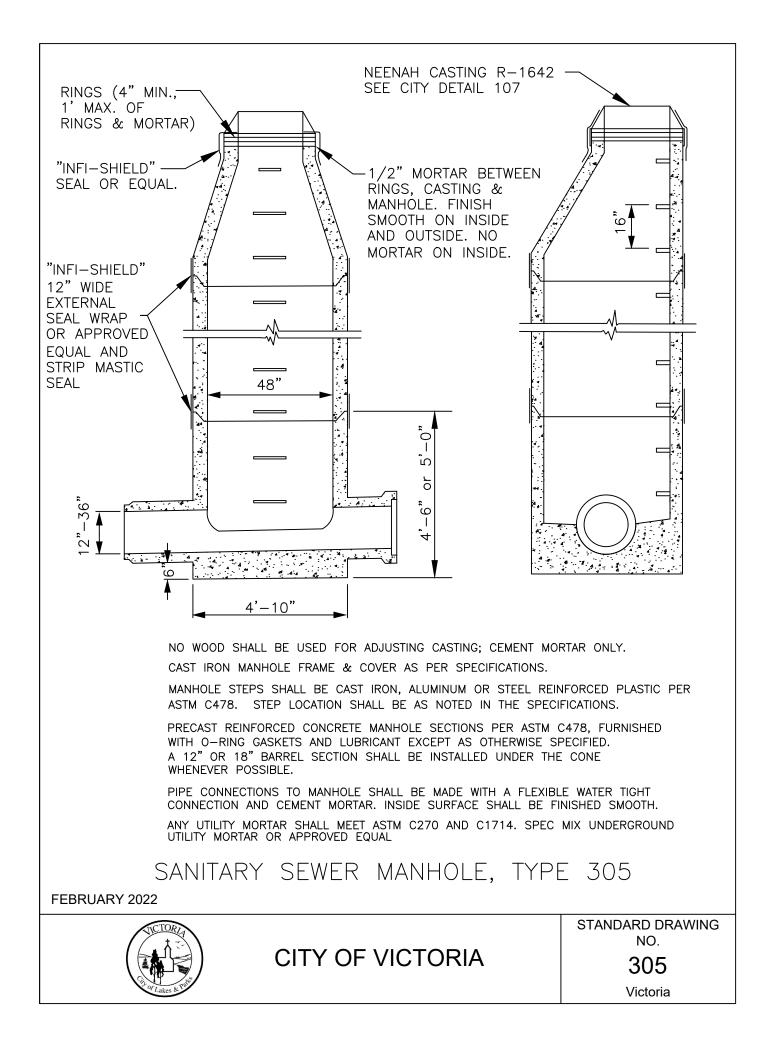
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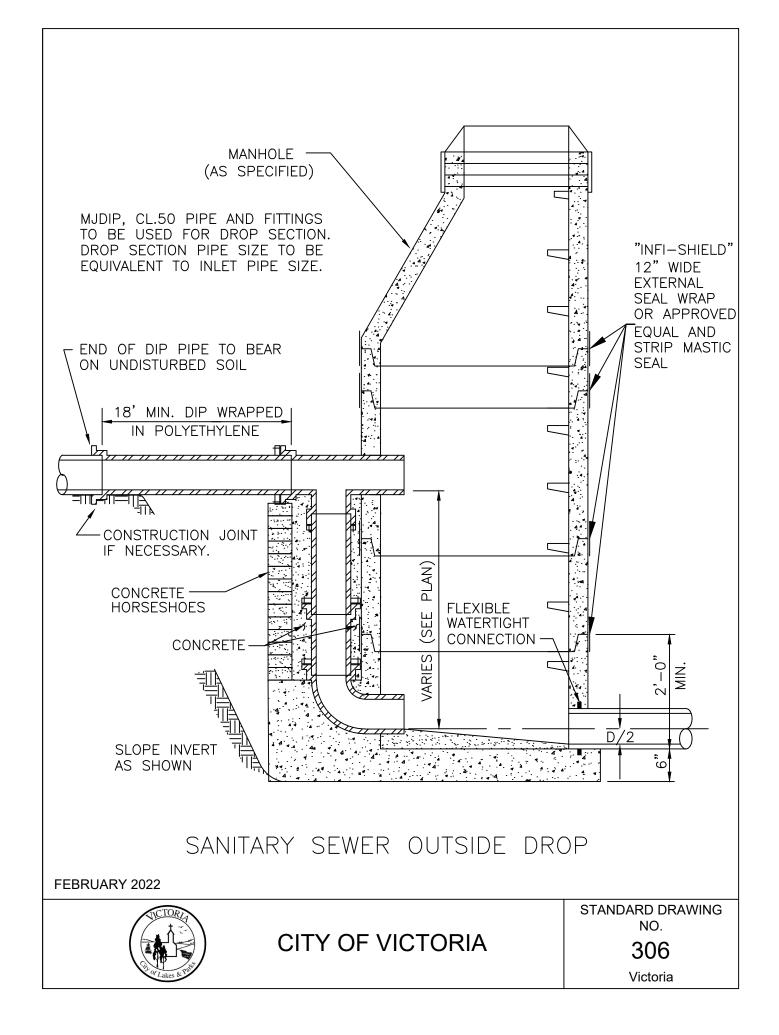
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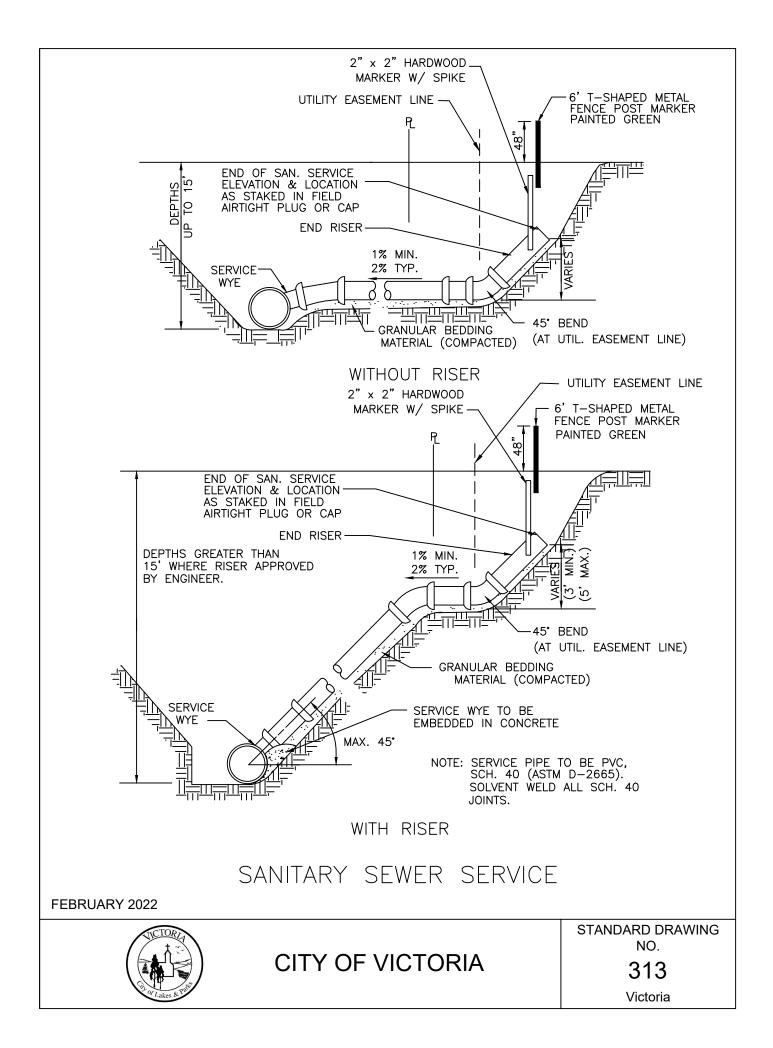


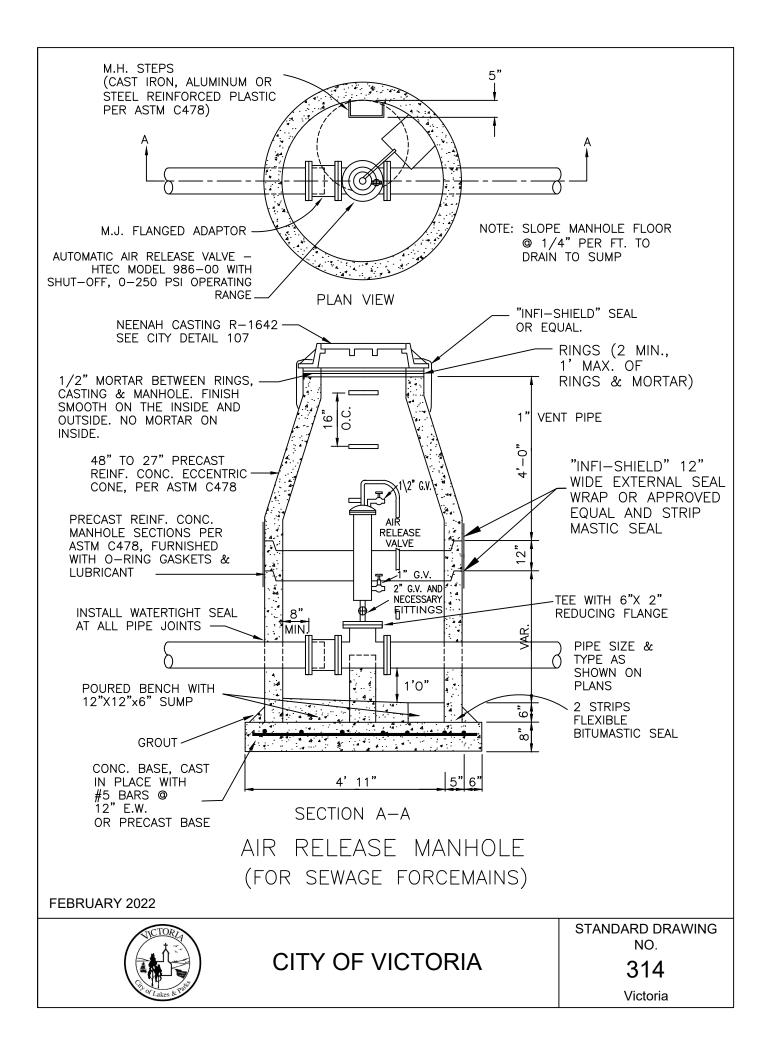


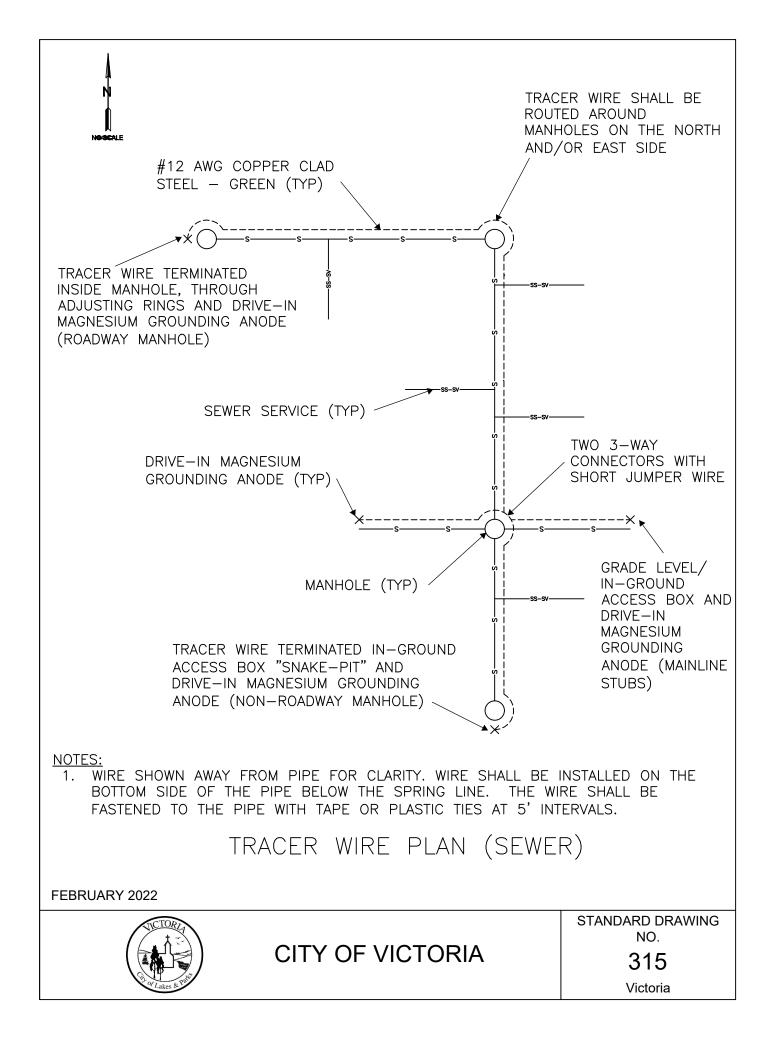












- 1. ALL STORM SEWER AND ACCESSORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF VICTORIA STANDARD SPECIFICATIONS AND DETAILS.
- 2. REINFORCED CONCRETE PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF MnDOT SPEC 3236 (REINFORCED CONCRETE PIPE) FOR THE TYPE, SIZE, AND STRENGTH CLASS SPECIFIED HEREIN.
- 3. PRECAST CONCRETE MANHOLE AND CATCH BASIN SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-477.
- 4. A 1'-O" TO 1'-6" MANHOLE SECTION SHALL BE INSTALLED UNDER THE CONE SECTION TO ALLOW FOR HEIGHT ADJUSTMENT WHENEVER POSSIBLE.
- 5. JOINTS OF MANHOLE RISER SECTIONS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING JOINTS PROVIDED ON ALL STORM SEWER MANHOLES, AND SHALL BE WRAPPED WITH "INFI-SHIELD" 12" WIDE EXTERNAL SEAL WRAP OR APPROVED EQUAL.
- 6. RIP-RAP SHALL BE HAND-PLACED OVER GEOTEXTILE FABRIC AND CONFORM TO MnDOT SPEC. 3601, CLASS III, OR AS SPECIFIED HEREIN.
- 7. THE GEOTEXTILE FABRIC USED UNDER RIP-RAP SHALL EXTEND 3 FT UNDER THE APRON.
- 8. FURNISH & INSTALL TRASH GUARDS ON ALL FLARED END SECTIONS.
- 9. ALL SILT SHALL BE CLEANED OUT FROM THE STORM SEWER SYSTEM, INCLUDING THE RIP-RAP AT THE END OF THE PROJECT.
- 10. CB/MH WITH SUMP, TYPE 405, REQUIRED AS FIRST STRUCTURE UPSTREAM FROM ANY STORMWATER BMP.
- 11. ALL NEW STORM SEWER PIPE SHALL BE FLUSHED AND TELEVISED PRIOR TO SUBSTANTIAL COMPLETION SEE SPECIFICATION SECTION 1700 CLOSEOUT REQUIREMENTS.
- 13. ANY UTILITY MORTAR SHALL MEET ASTM C270 AND C1714. SPEC MIX UNDERGROUND UTILITY MORTAR OR APPROVED EQUAL

STANDARD PLAN NOTES STORM SEWER PLANS

FEBRUARY 2022

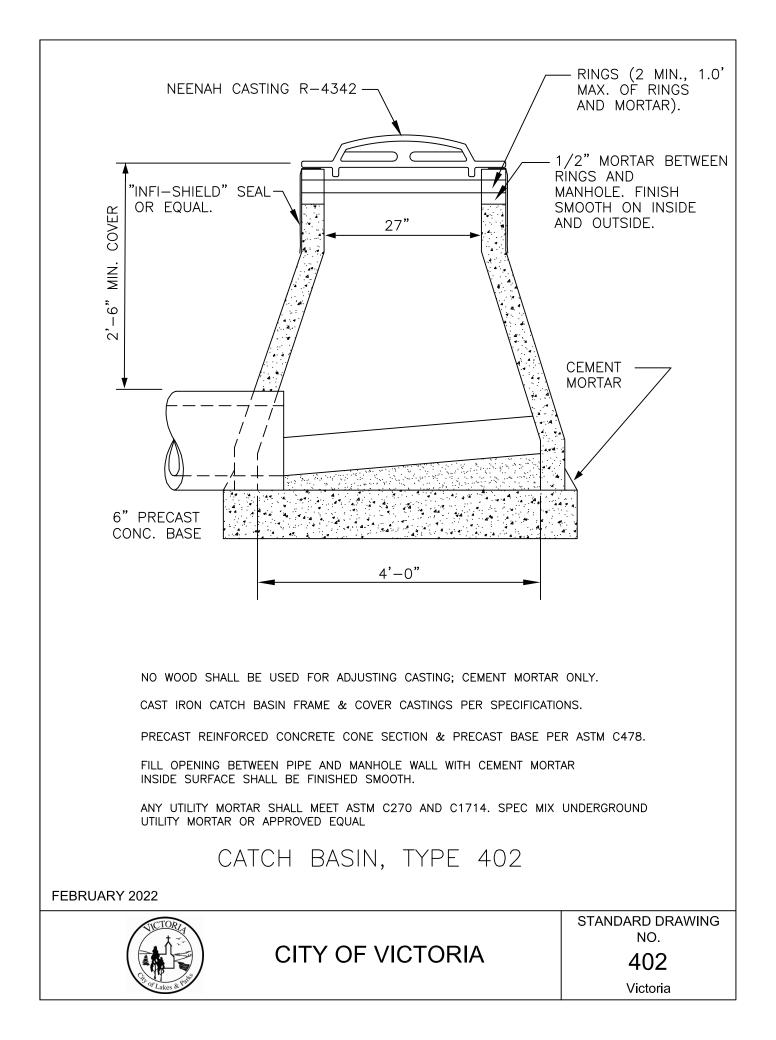


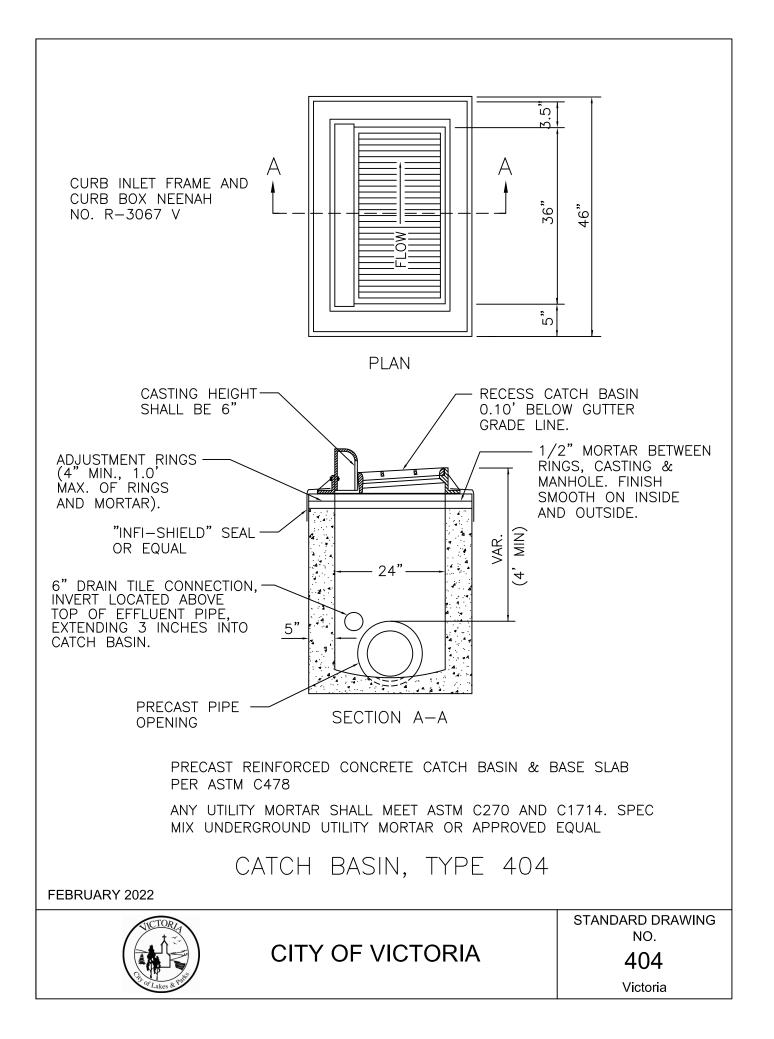
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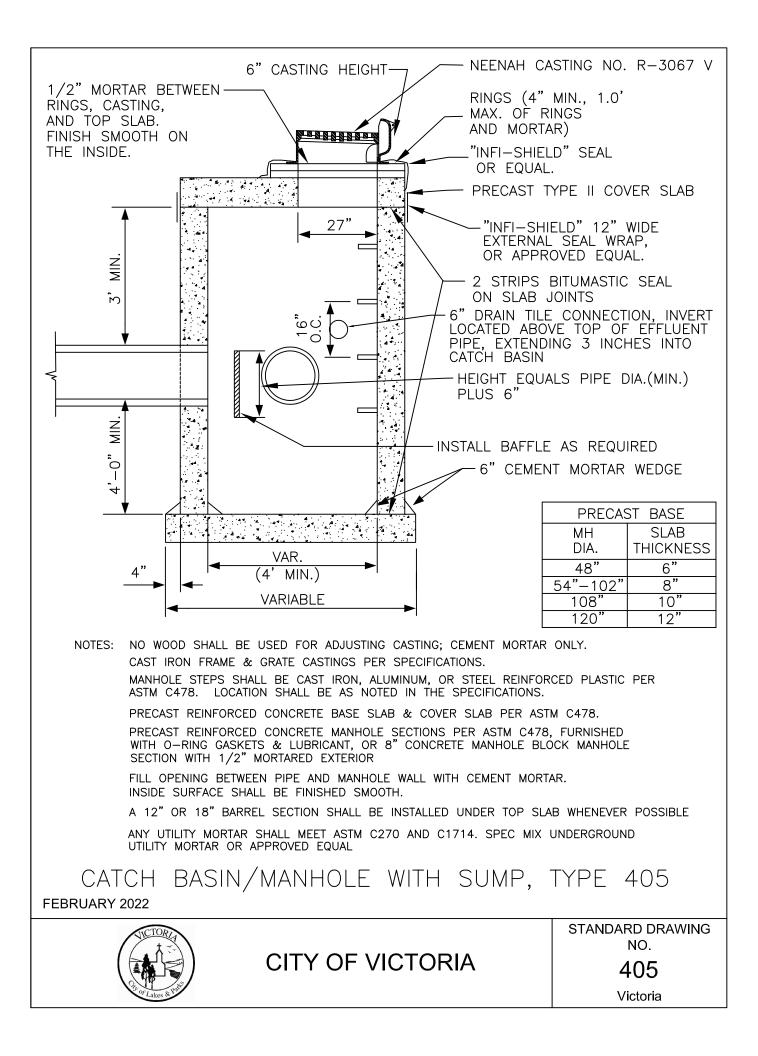
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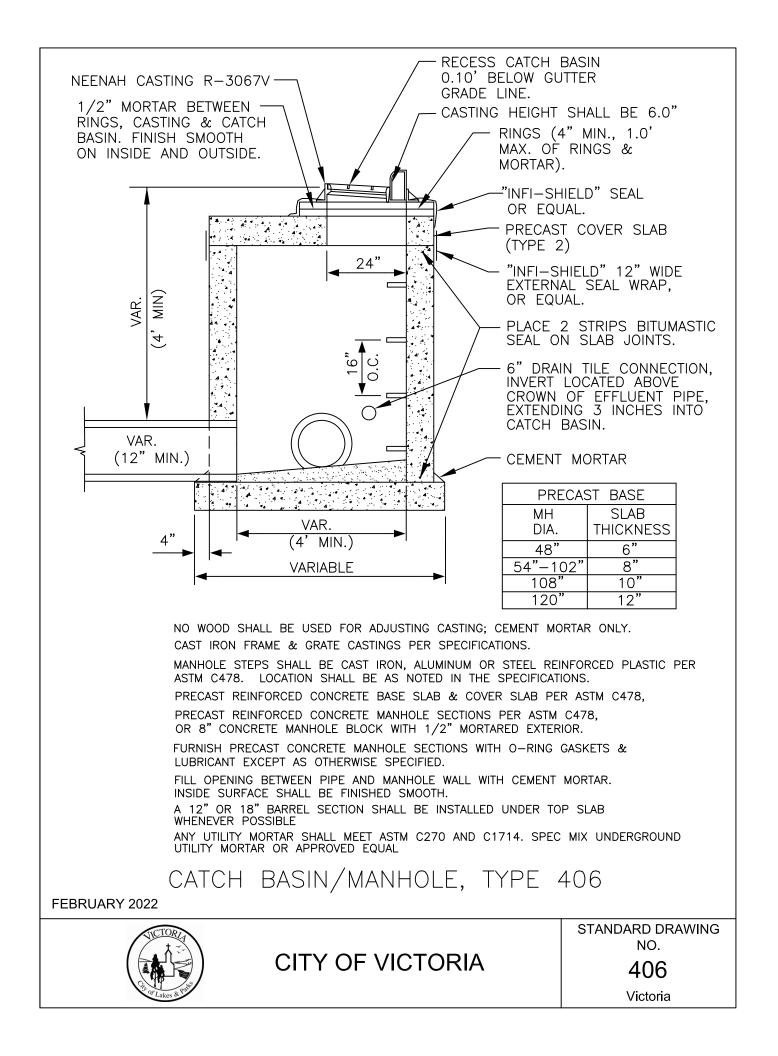


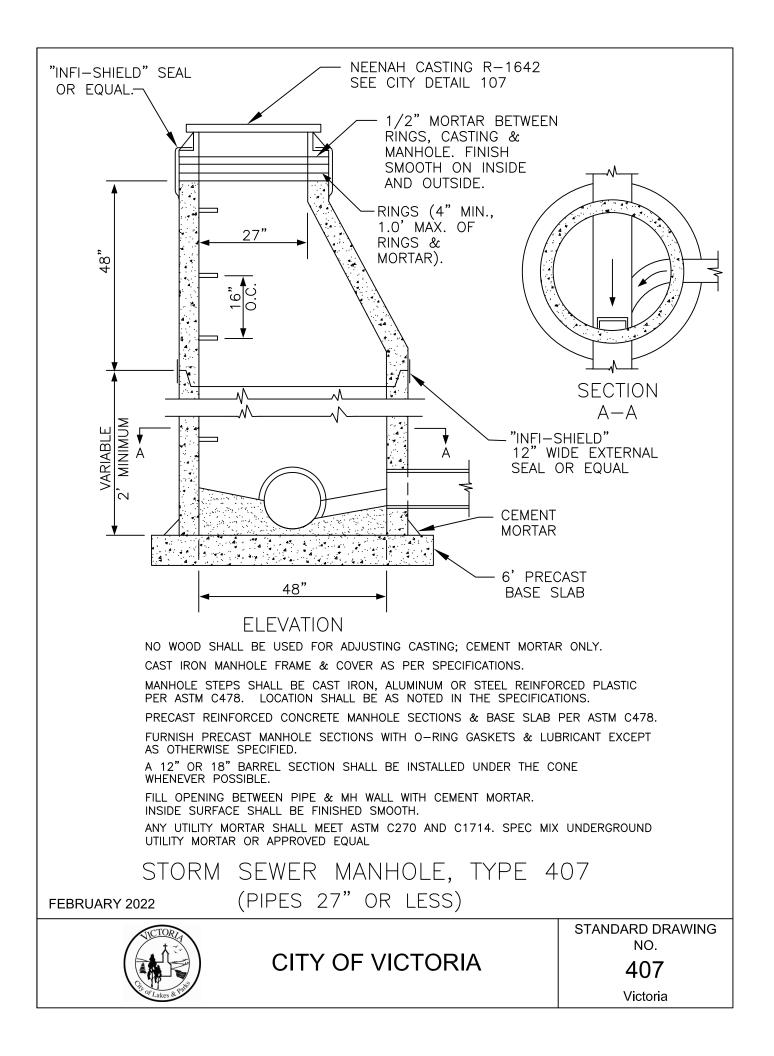
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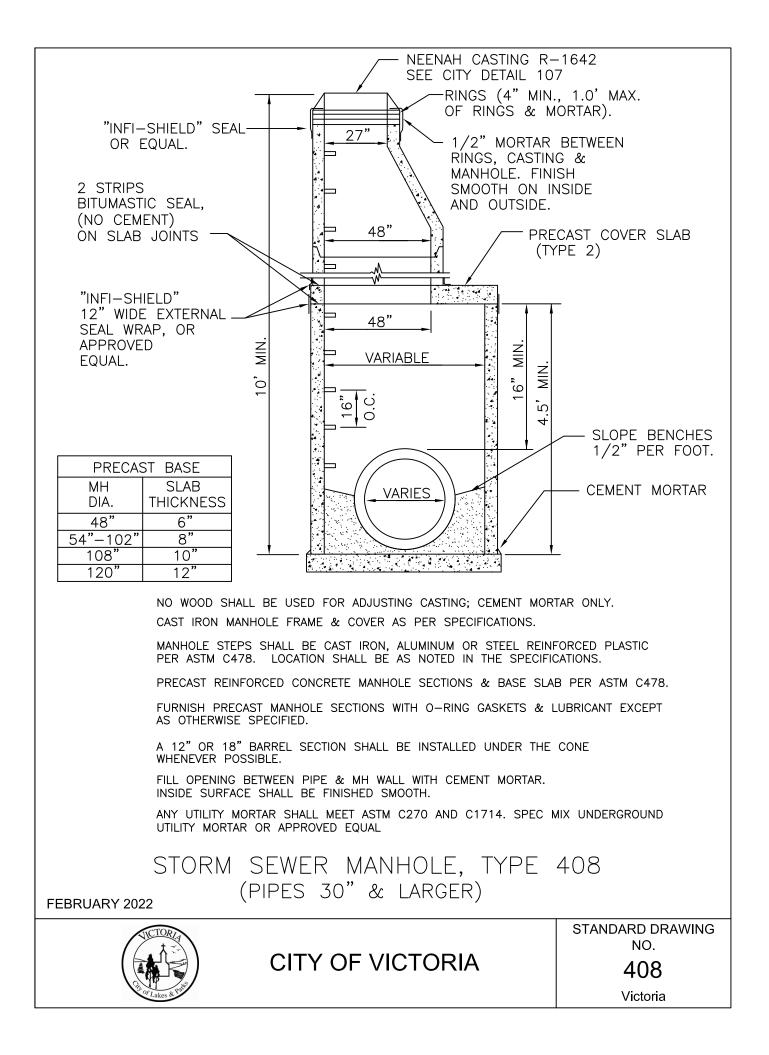


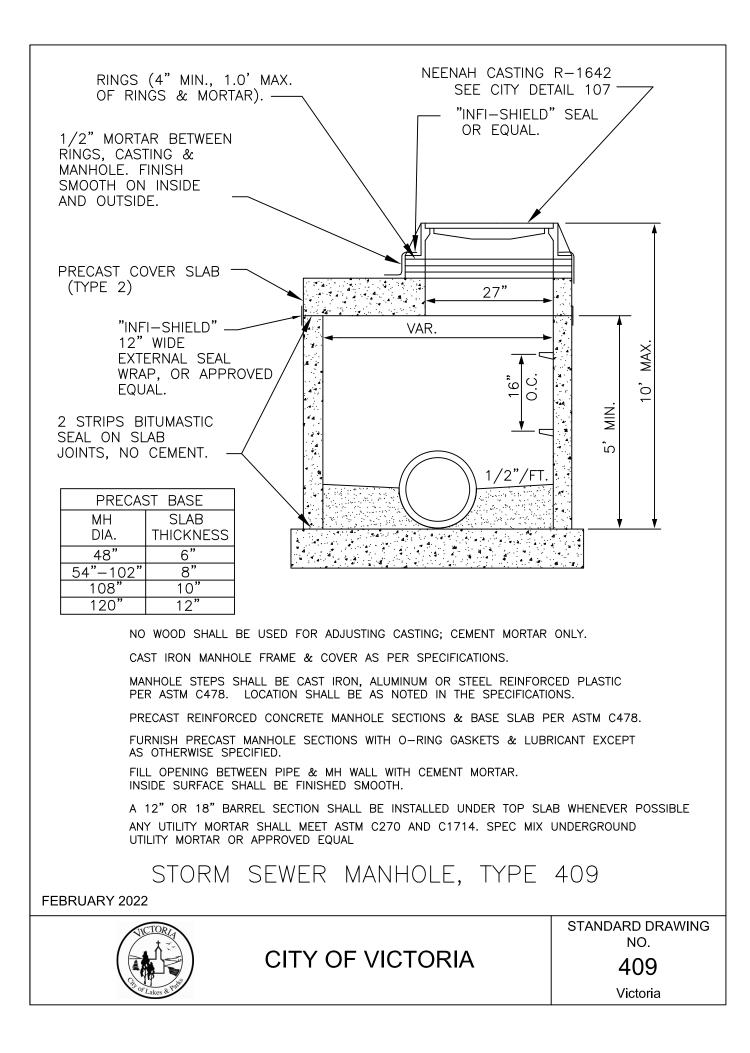


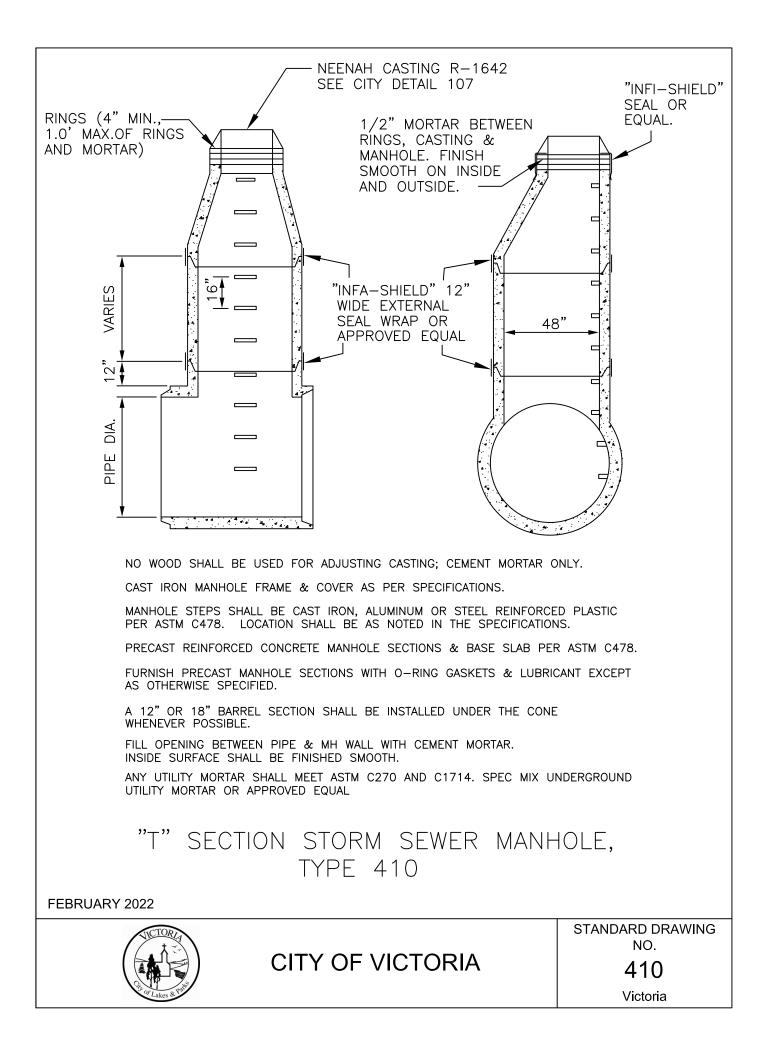


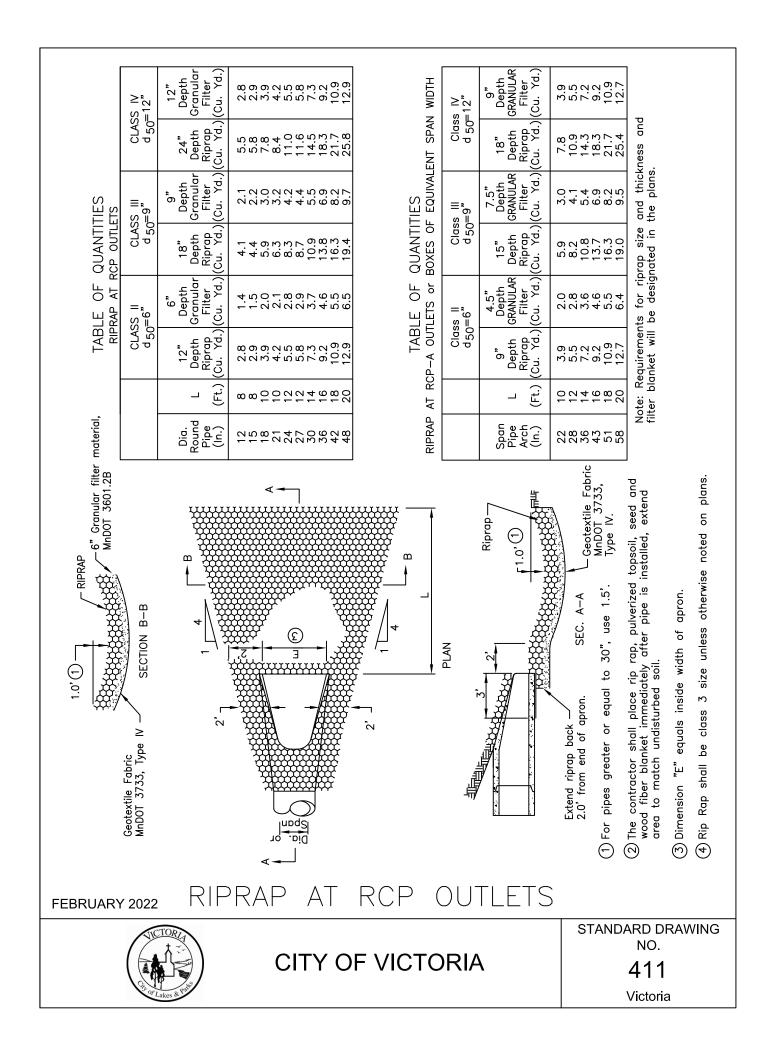


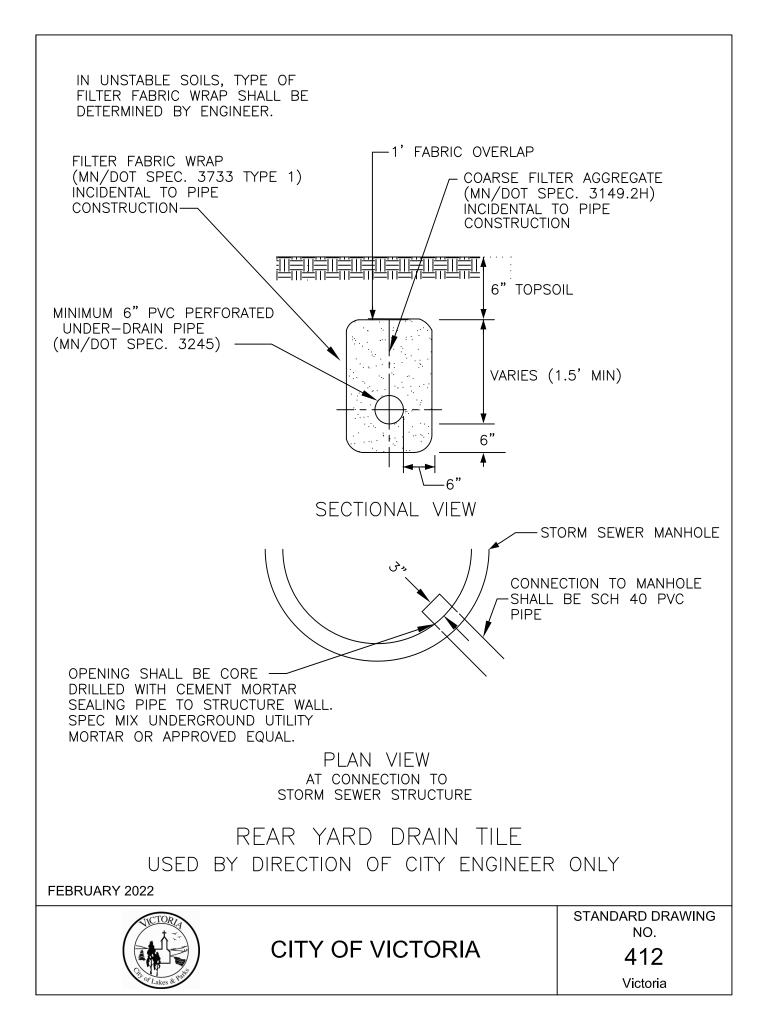


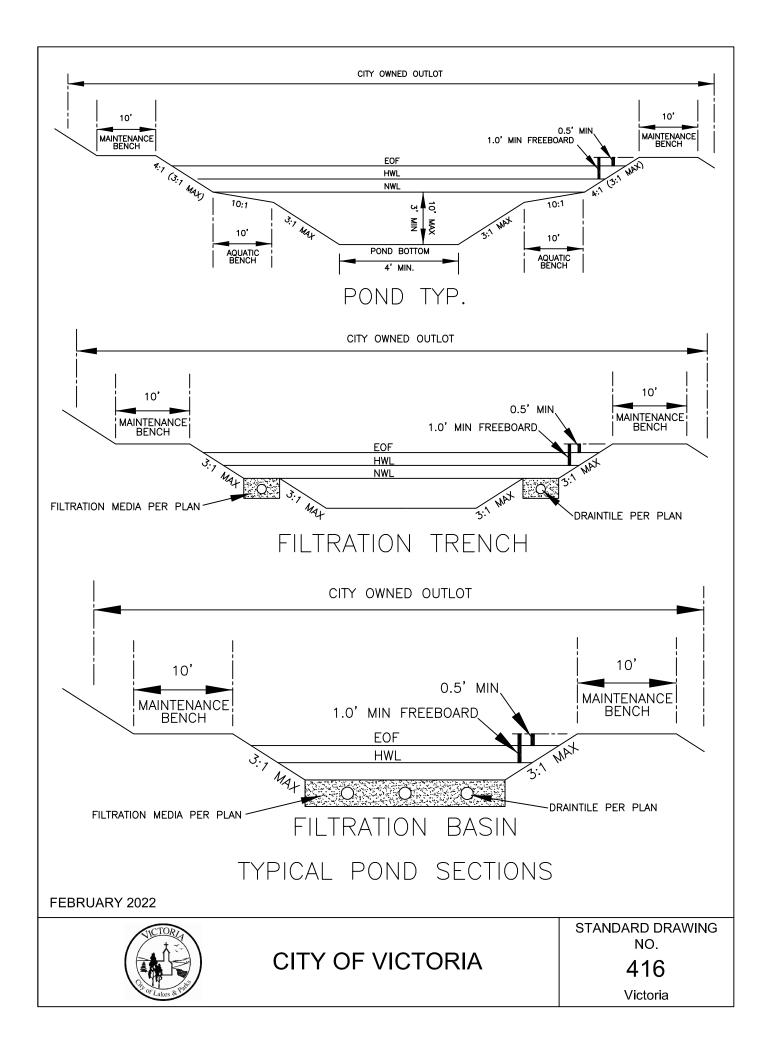


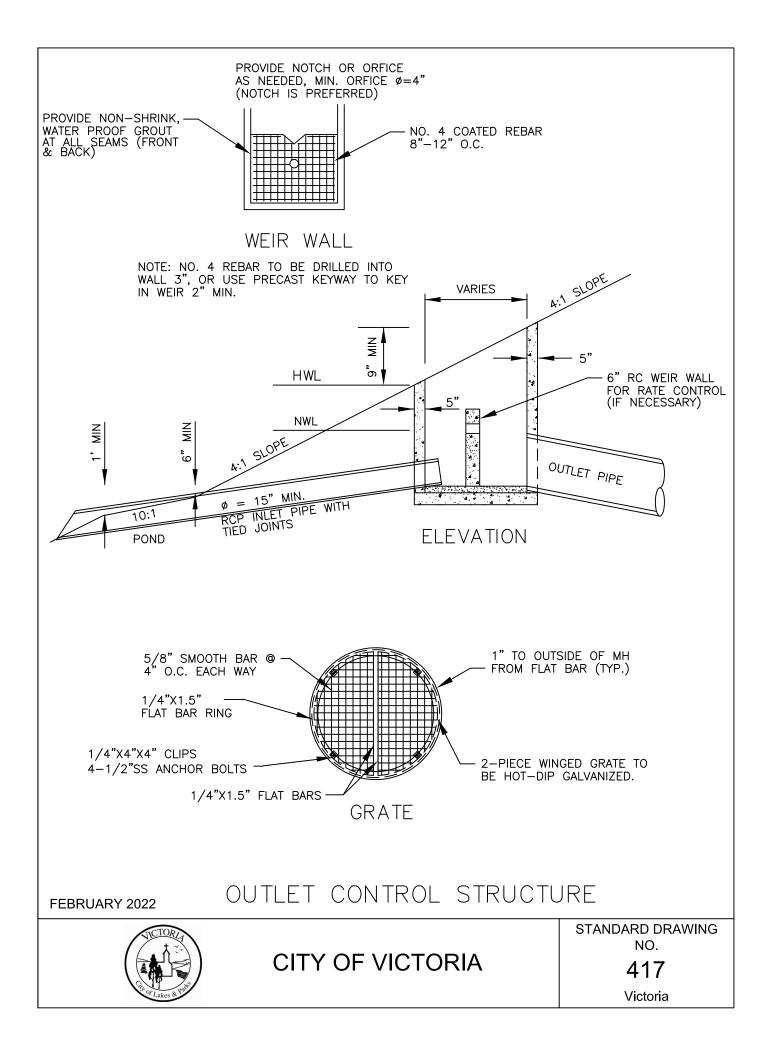


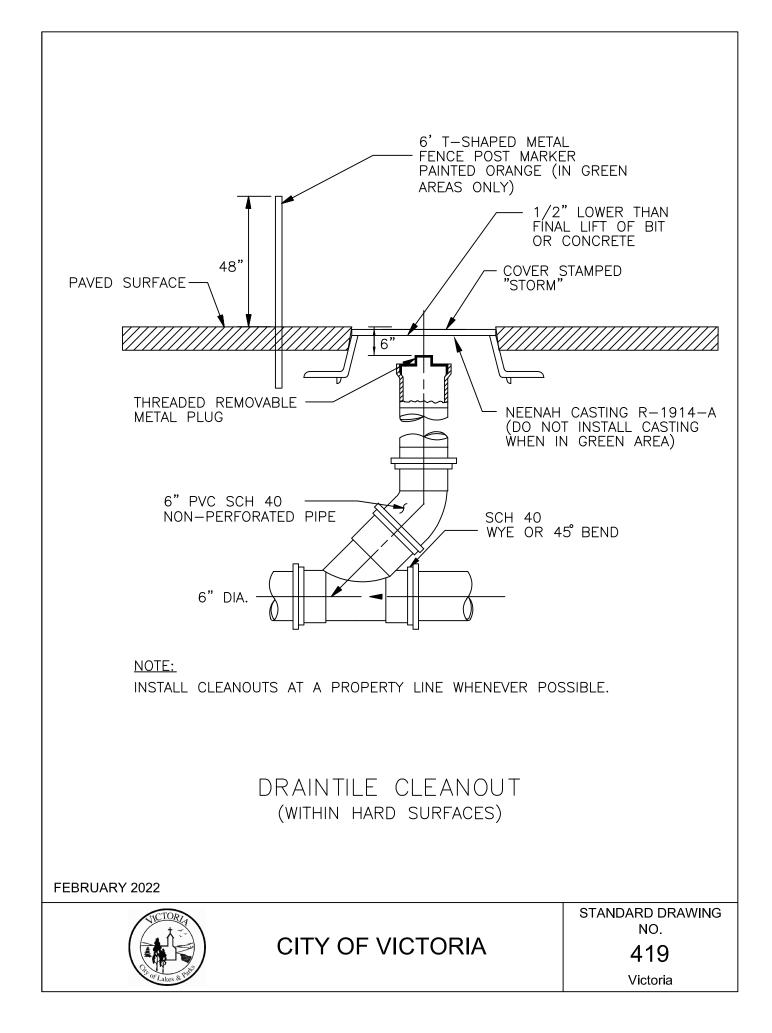


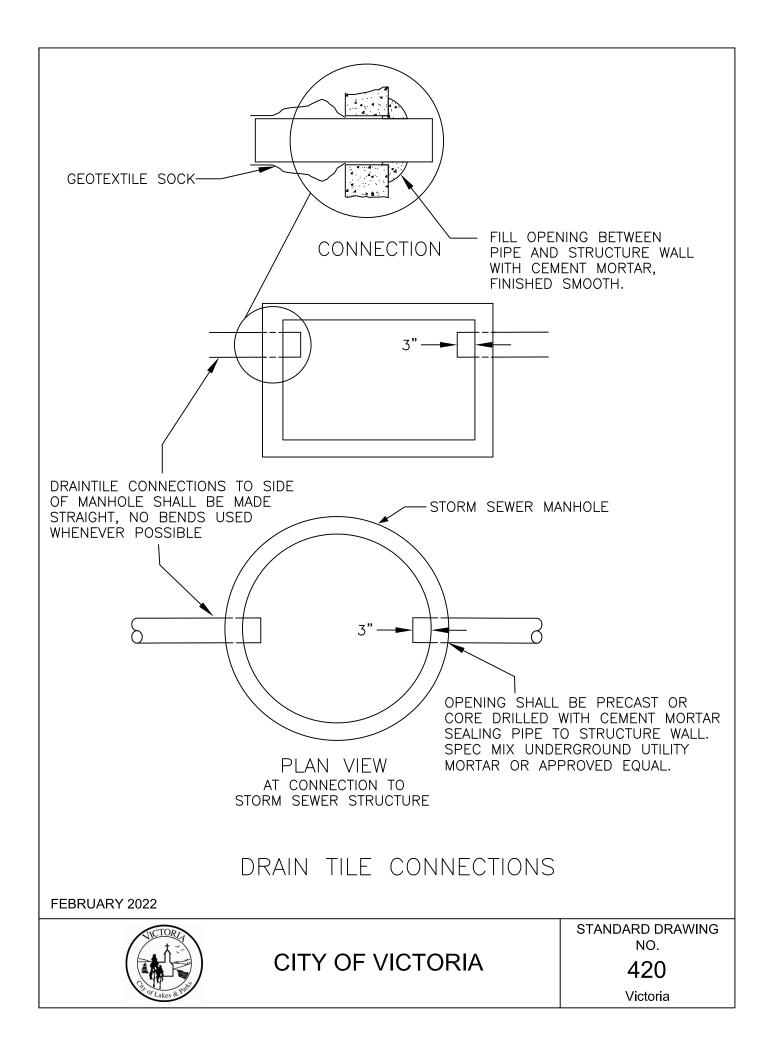


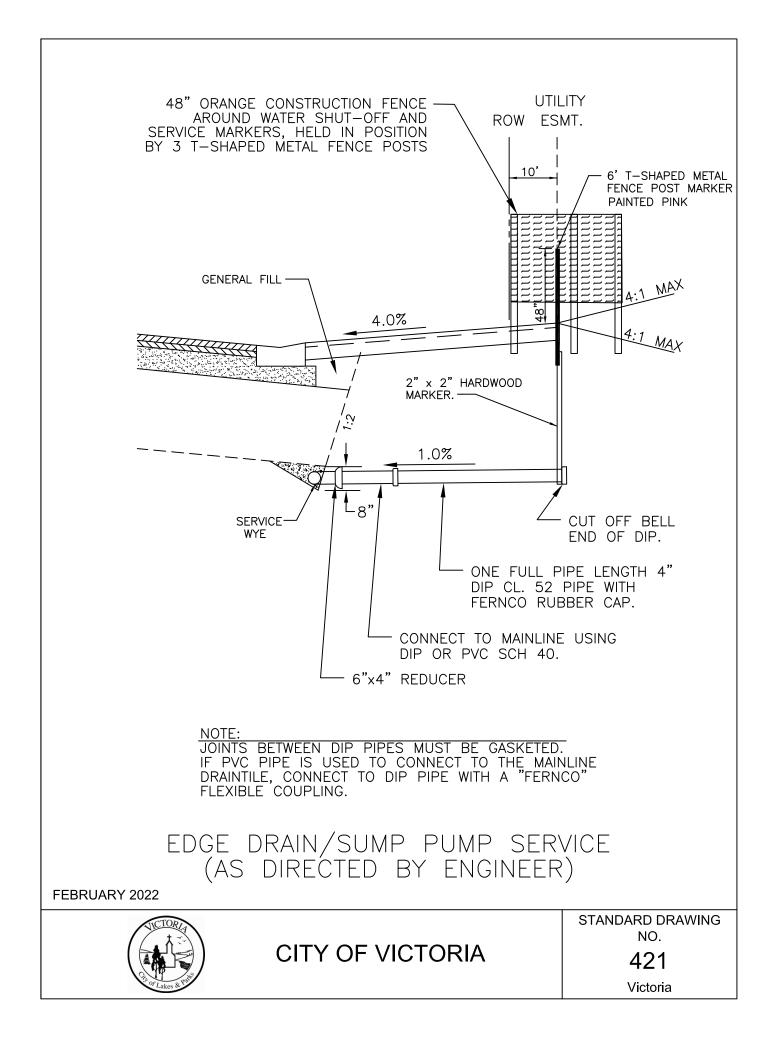


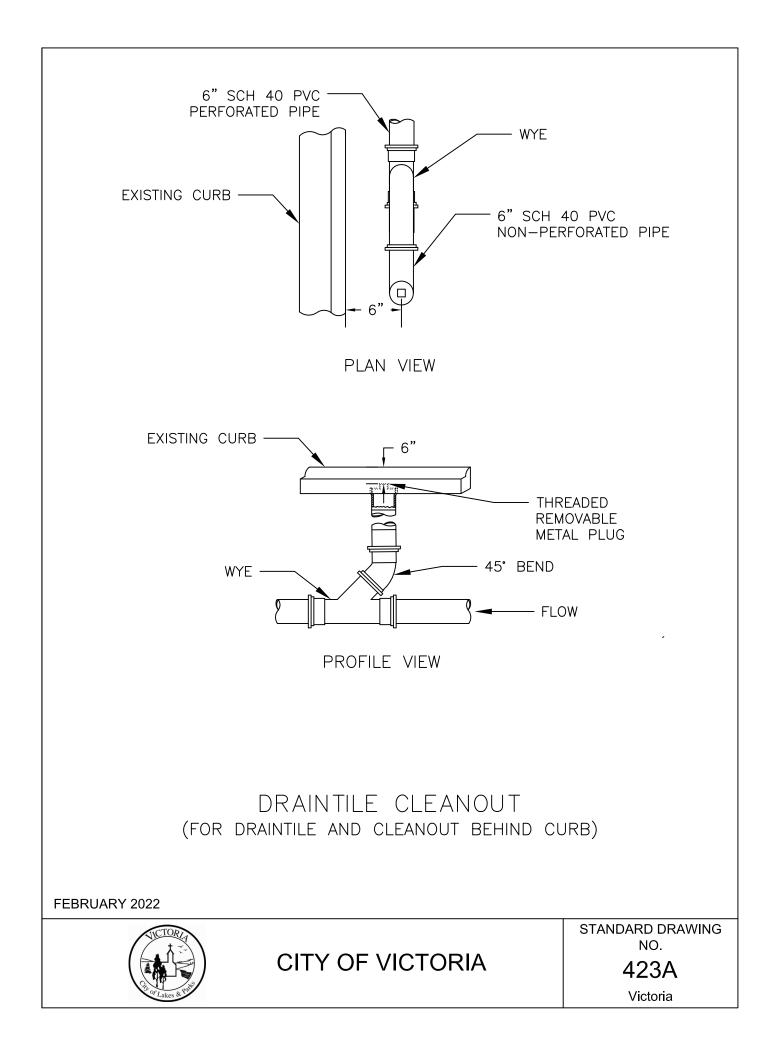


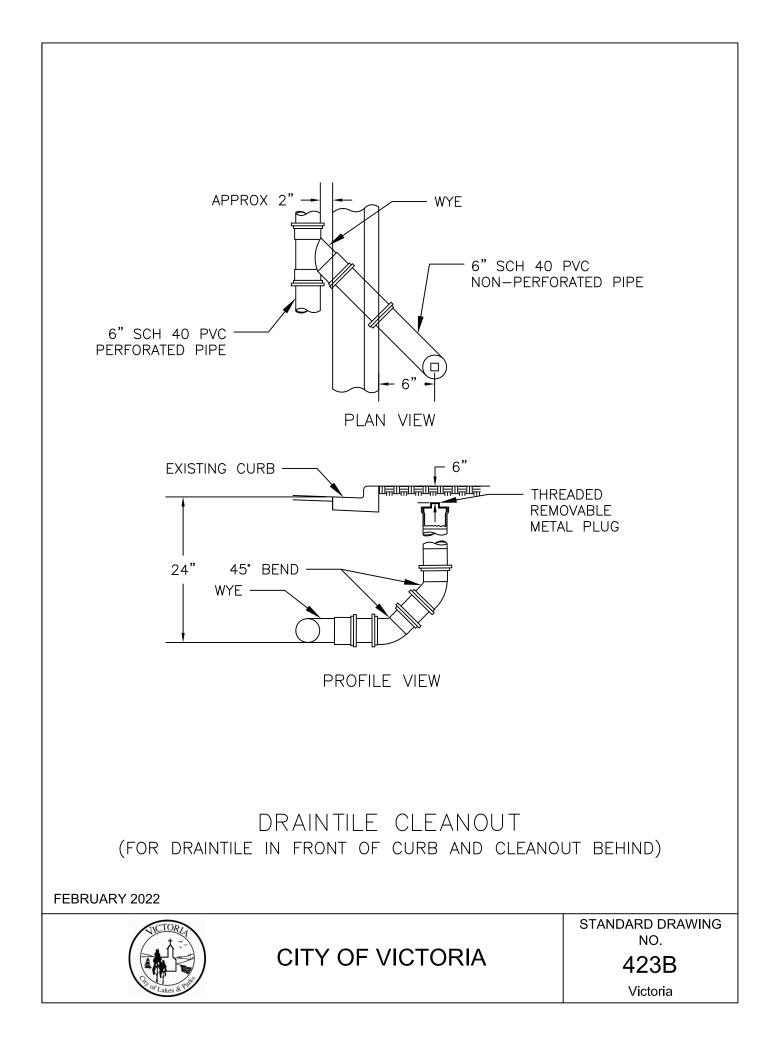


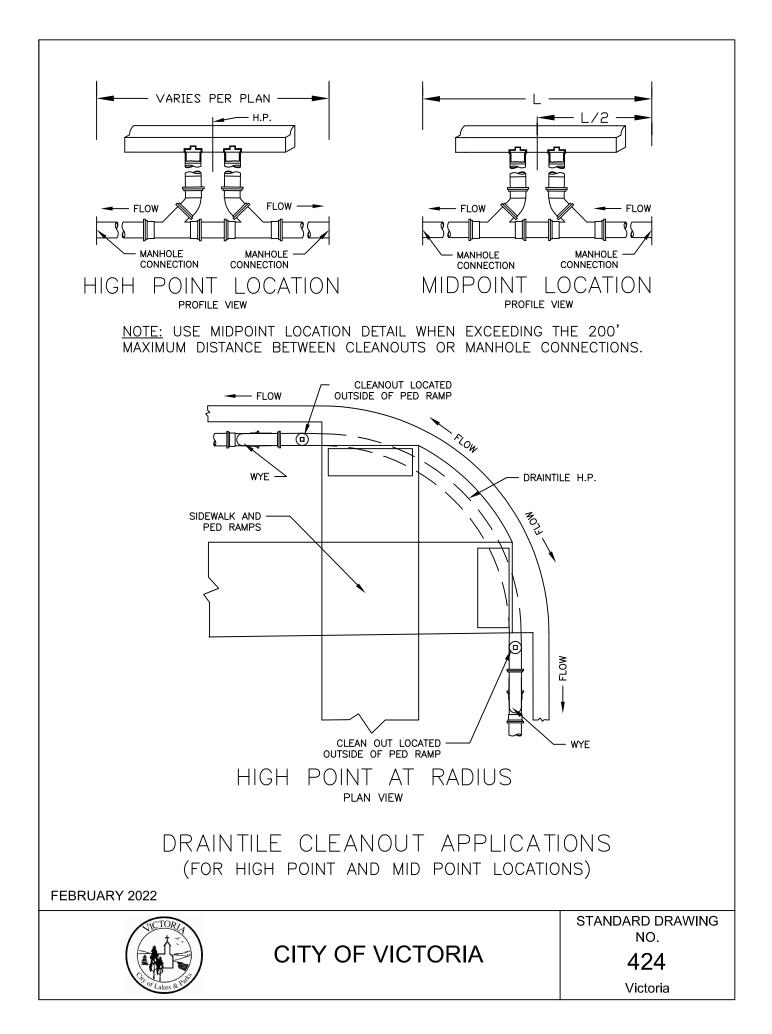












- 1. BITUMINOUS TRAILS AND SIDEWALKS MUST BE CONSTRUCTED TO MAINTAIN POSITIVE DRAINAGE AWAY FROM THE PATHWAYS THROUGHOUT THE ENTIRE LENGTH.
- 2. TOPSOIL AND BACKFILLING OPERATIONS MUST BE COMPLETED TO AVOID DAMAGE TO THE BITUMINOUS TRAILS AND SIDEWALKS. FINAL GRADE OF BACKFILL AND TOPSOIL MUST BE FLUSH WITH THE PATH EDGE TO AVOID TRAPPING WATER.
- 3. DIVIDE SIDEWALK INTO SECTIONS WITH CONTRACTION JOINTS. SPACING SHALL NOT BE LESS THAN 3 FT NOR GREATER THAN 12 FT IN ANY DIMENSION.
- 4. CONCRETE PEDESTRIAN RAMPS MUST BE CONSTRUCTED AT ALL INTERSECTIONS UNDER THE SUPERVISION OF A CERTIFIED ADA SUPERVISOR.

STANDARD PLAN NOTES SIDEWALKS AND TRAILS

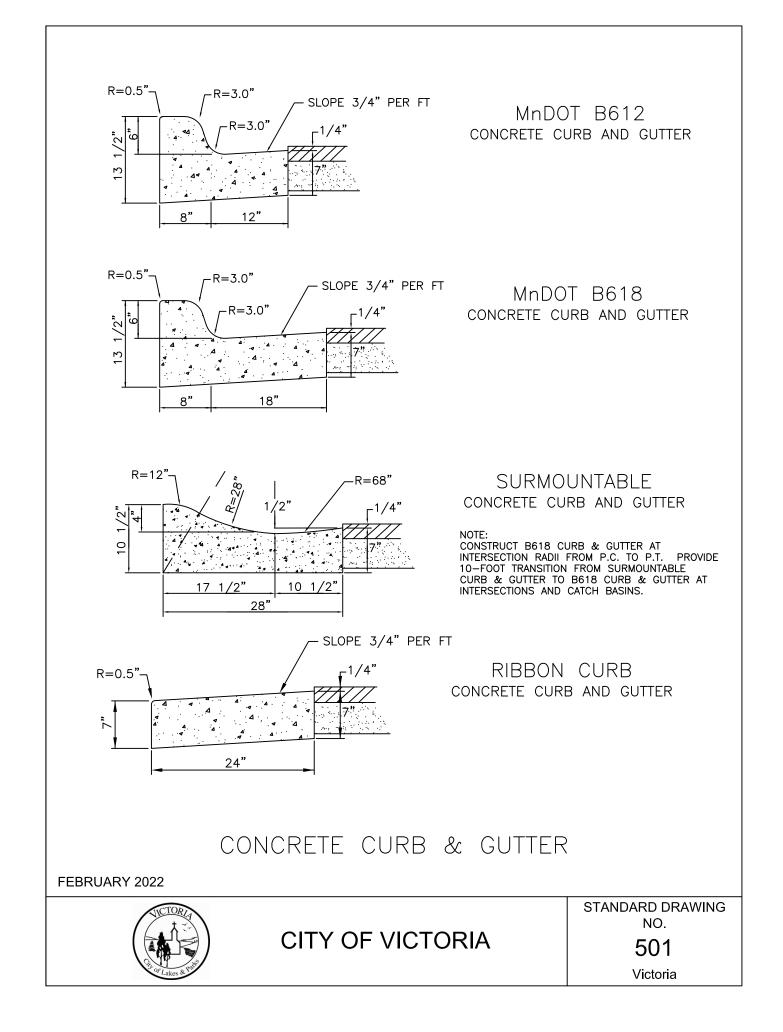
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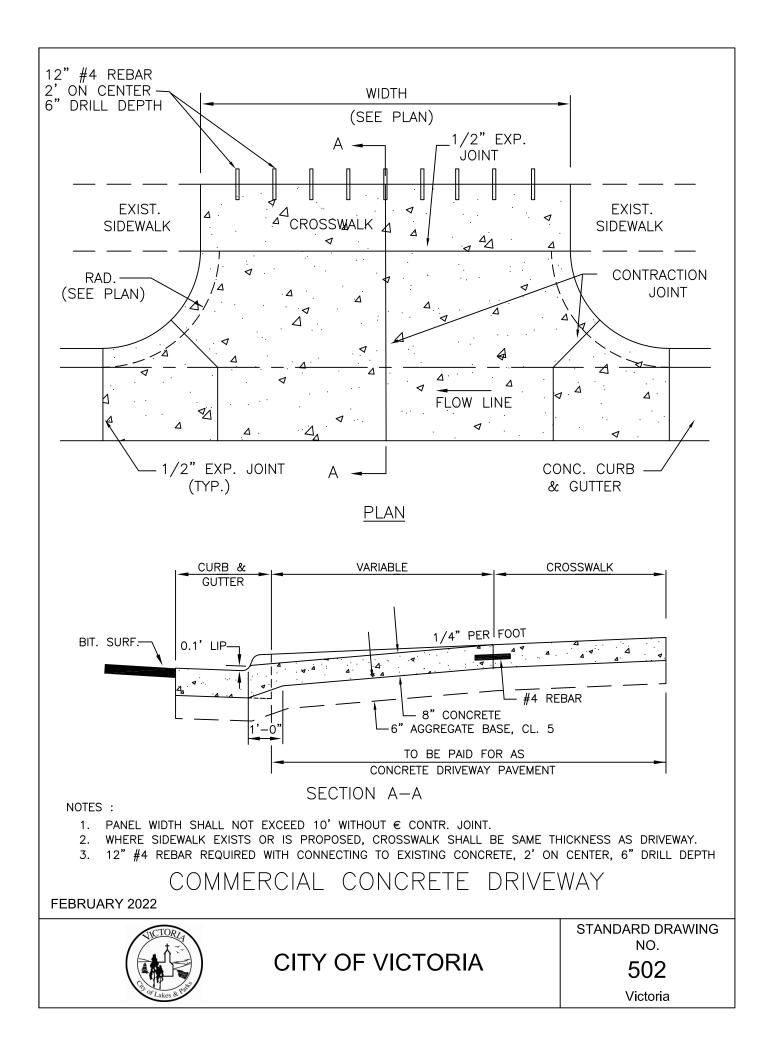


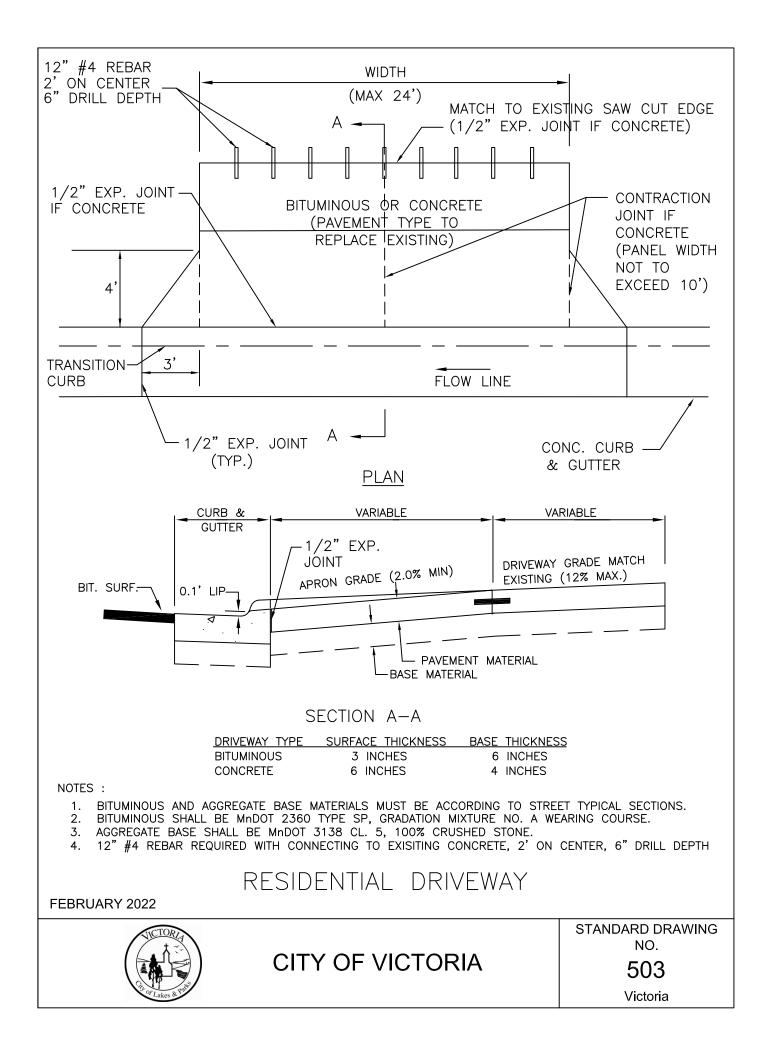
CITY OF VICTORIA

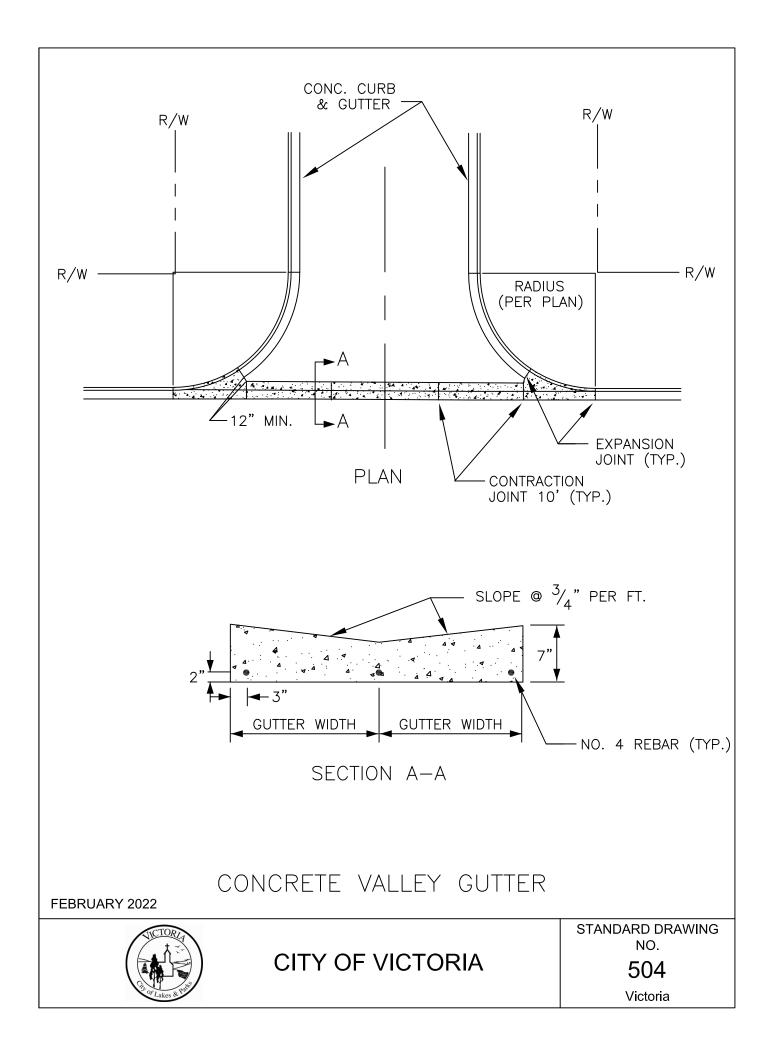
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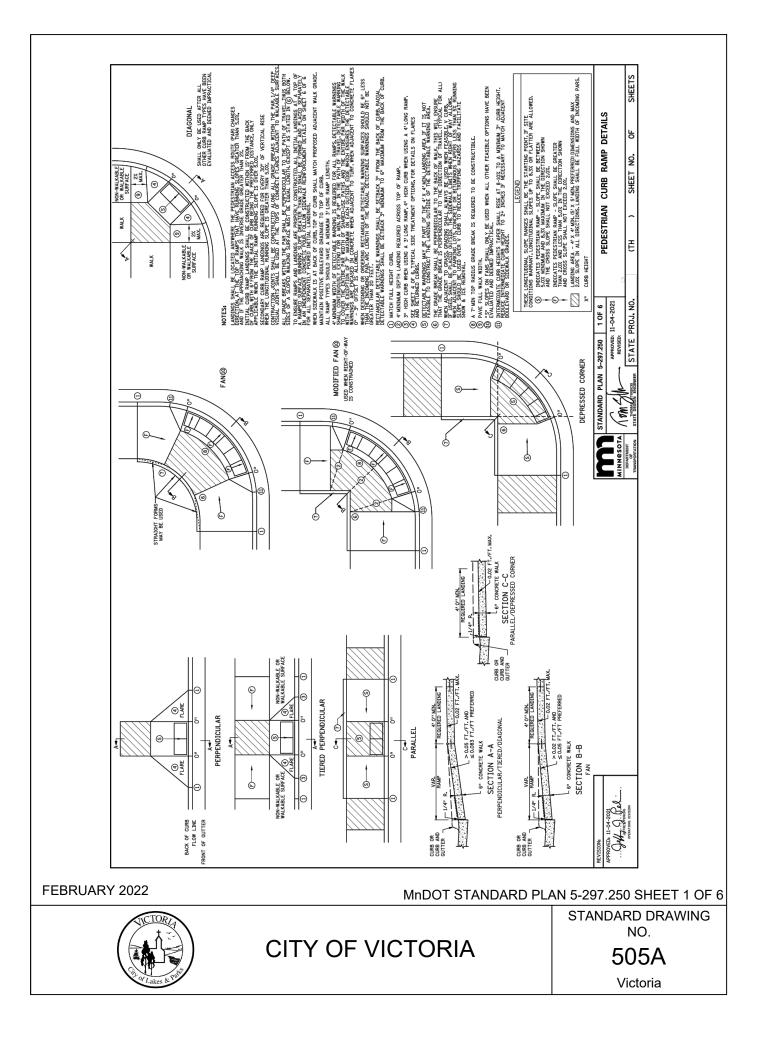
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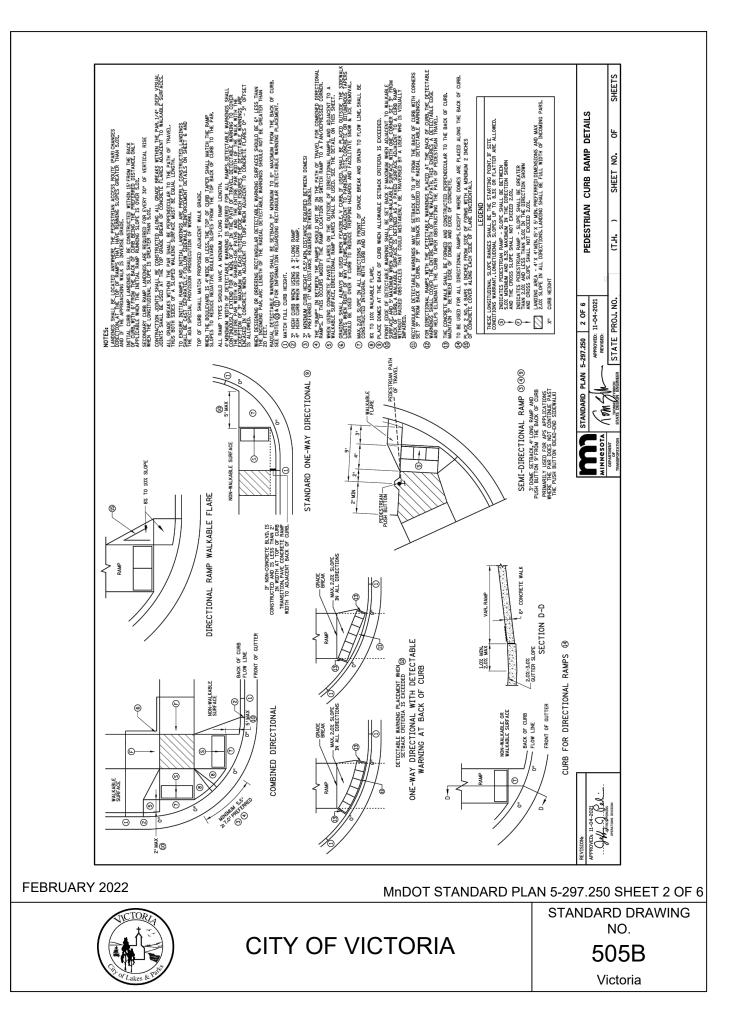


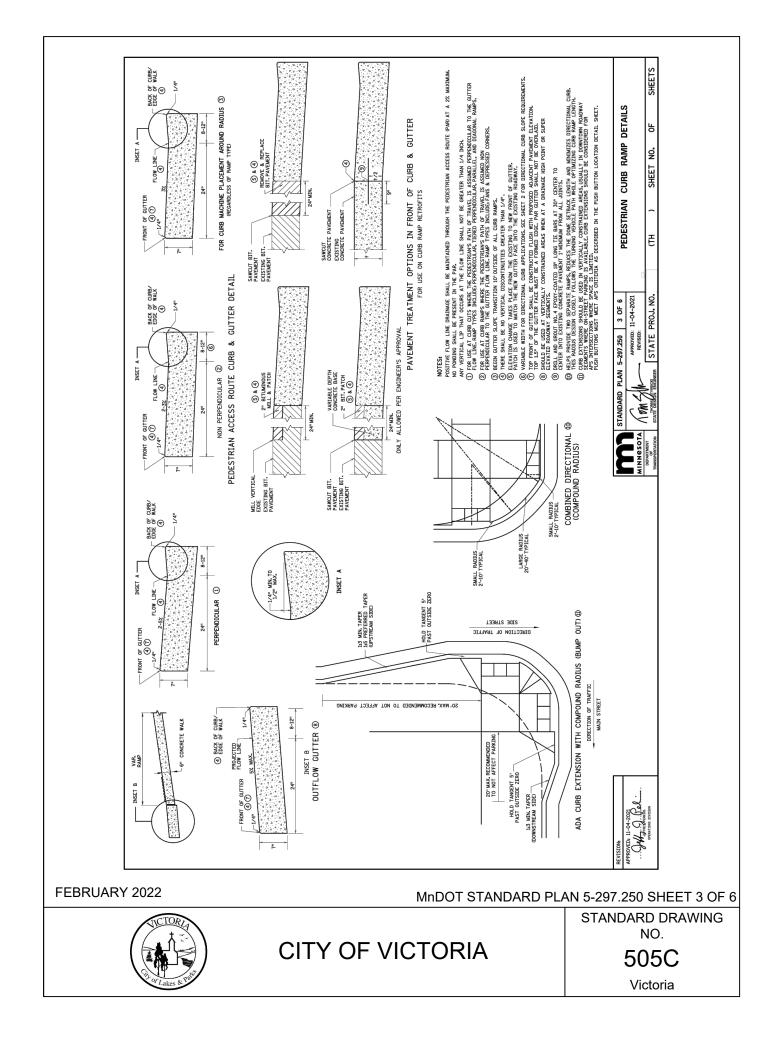


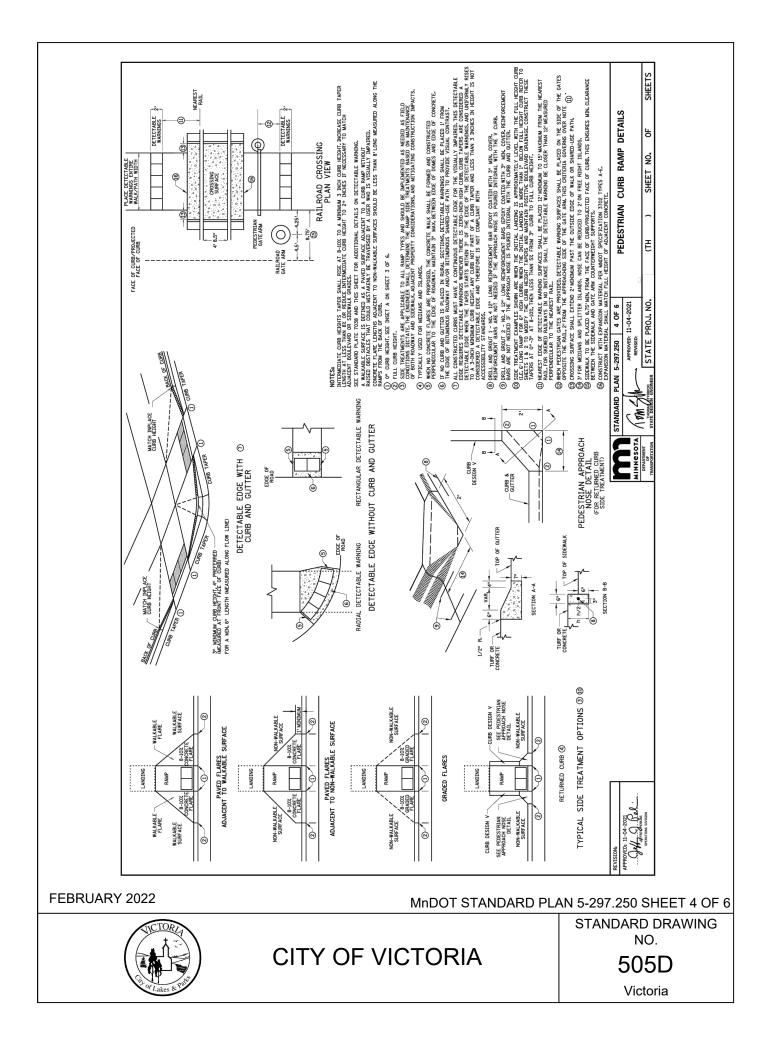


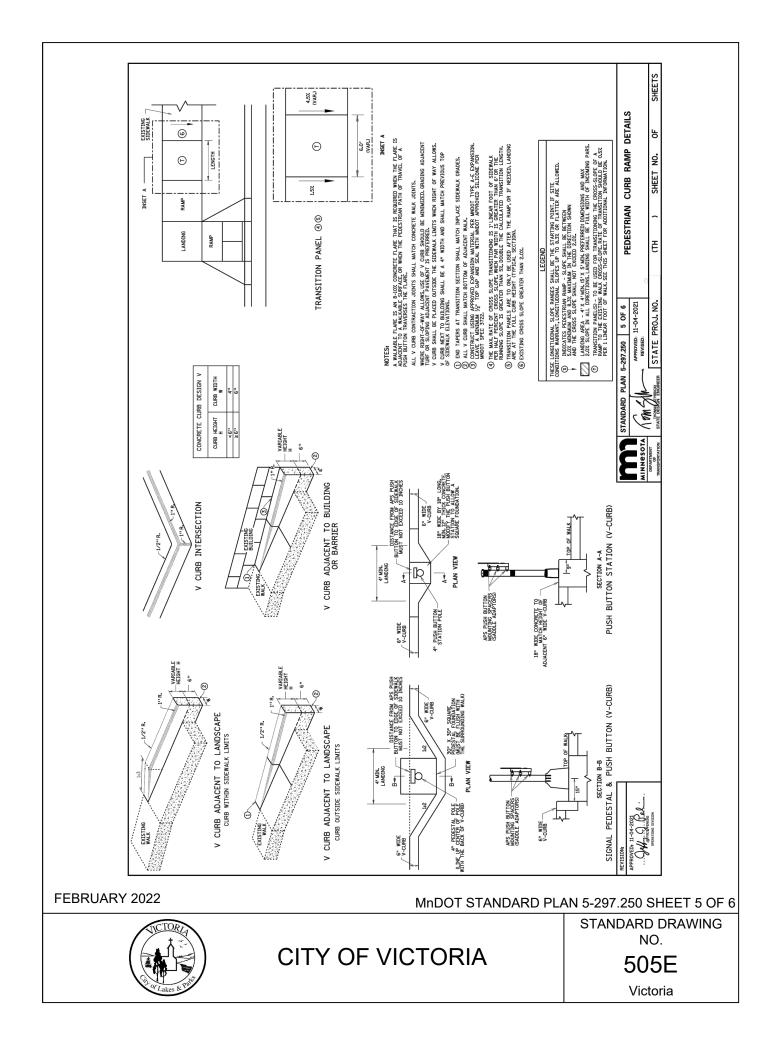


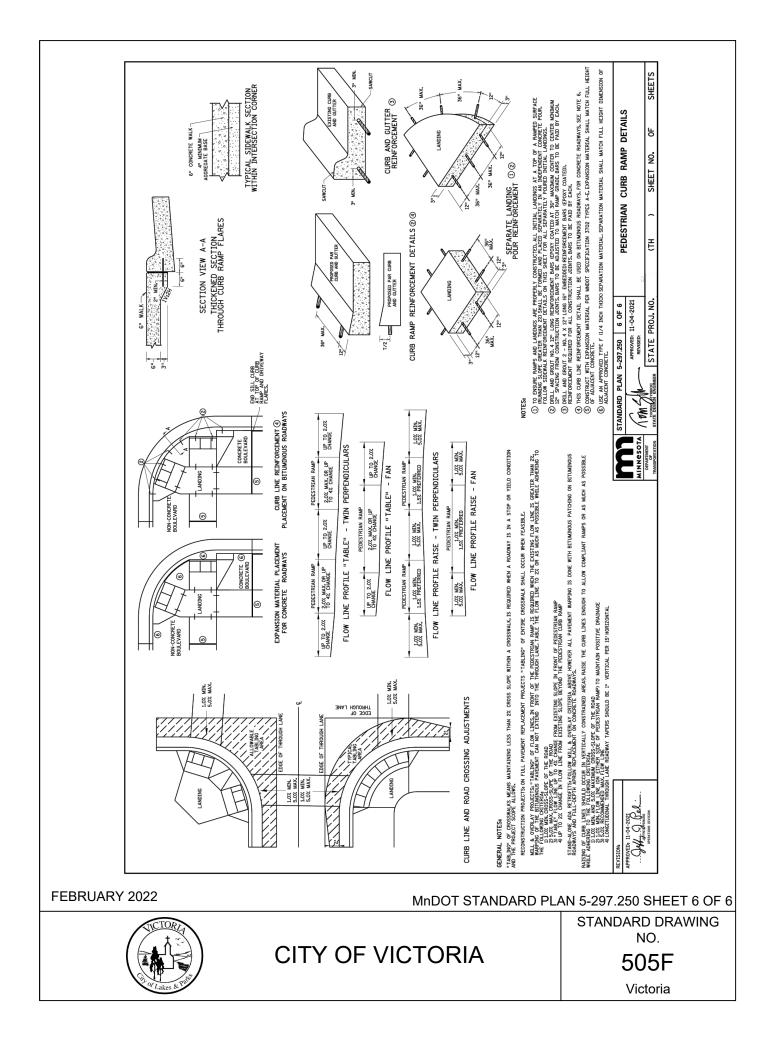












THAT ARE PROVIDED WITH OTHERWISE PERMITTED TO -AT PEDESTRIAN RAILWAY C -ON RAIL PLATFORMS WHEF DETECTABLE WARNINGS SHALL -A MINIMUM OF 24" IN THE -THE FULL WIDTH OF THE I WITHIN 3" OF FULL WIDTH -THE FULL LENGTH OF THE DETECTABLE WARNING SURFAC ADJACENT GUTTER, ROADWAY,	S ROUTES CROSS COMMERCIAL DRIVEWAYS TRAFFIC CONTROL DEVICES OR OPERATE LIKE A PUBLIC ROADWAY. ROSSINGS. E BOARDING EDGES ARE NOT PROTECTED. EXTEND: DIRECTION OF TRAVEL. RAMP, LANDING, OR BLENDED TRANSITION, ON EITHER END. PUBLIC USE AREA OF A RAIL PLATFORM. ESS SHALL CONTRAST VISUALLY WITH OR WALKWAY, EITHER A LIGHT-ON-DARK AST MAY BE PROVIDED ON THE FULL RAMP	 CENTER TO CENTER DOME SPACIN CENTER TO CENTER DOME SPACING: BASE TO BASE DOME SPACING: DOME BASE TO PLATE EDGE SPACIO, 75" MAXIMUM. SPACING VARIES ON RADIAL PLATE TYPICAL WIDTHS AVAILABLE: 12", 1 CHECK WITH MANUFACTURERS FOR ON RADIAL PLATE, RADIUS DEFINEI TYPICAL RADII. CHECK WITH MANUF RADII. 	G: 1.6" MINIMUM, 2.4" MAXIMUM. 0.65" MINIMUM. ING: 0.35" MINIMUM, S. 8", 24", 30", 36". 2 AVAILABLE WIDTHS. D AT BACK OF CURB.
	DETECTABLE W	ARNING SURF	FACE-
FEBRUARY 2022	TRUNCATED DOMES		
CITY OF VICTORIA			STANDARD DRAWING NO. 506 Victoria

0.2" 0.9" TO 1.4" SECTION A-A TRUNCATED DOME

50% - 65%

OF BASE DIAMETER

NOTES:

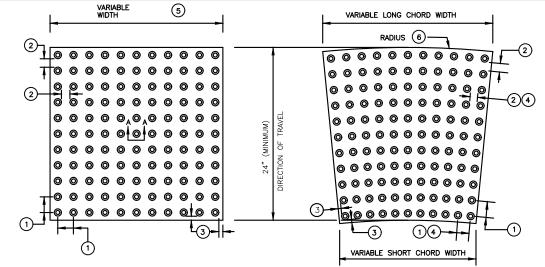
DETECTABLE WARNINGS ARE REQUIRED:

DETECTABLE WARNINGS CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN.

-WHERE RAMPS, LANDINGS, OR BLENDED TRANSITIONS PROVIDE

SQ. FT. PER RADIUS LONG PLATES REQUIRED FOR 90 (FEET) CHORD WIDTH (INCHES) PLATE DEGREE Ø TURN 10 23-1/2 3.53 8 15 18-13/16 2.93 15 23-1/2 3.67 12 15 20 18-13/16 3.00 20 20 18-7/8 2.98 20 23 25 20-1/2 3.28 23-9/16 20 25 3.77 30 22-5/8 3.65 25 35 22 3.56 30

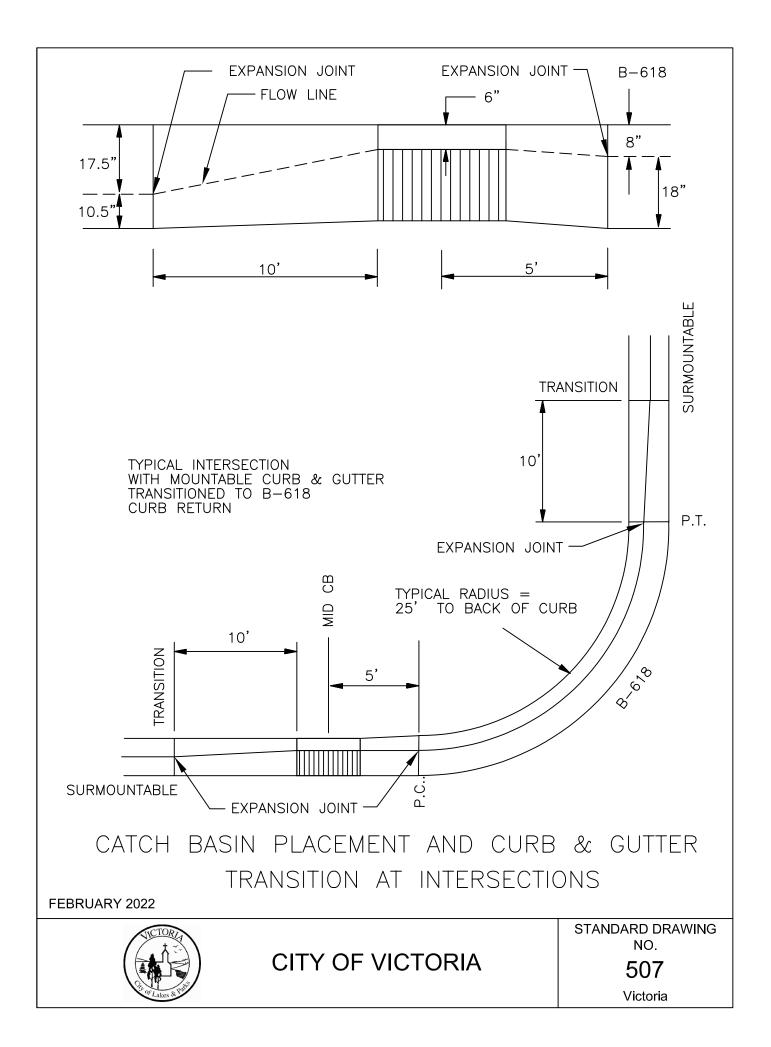
> © © © © © © © © © © © © © © © © © © ©	
RECTANGULAR PLATES	VARIABLE SHORT CHORD WIDTH
	TYPICAL RADIAL TRUNCATED DOME PLATES

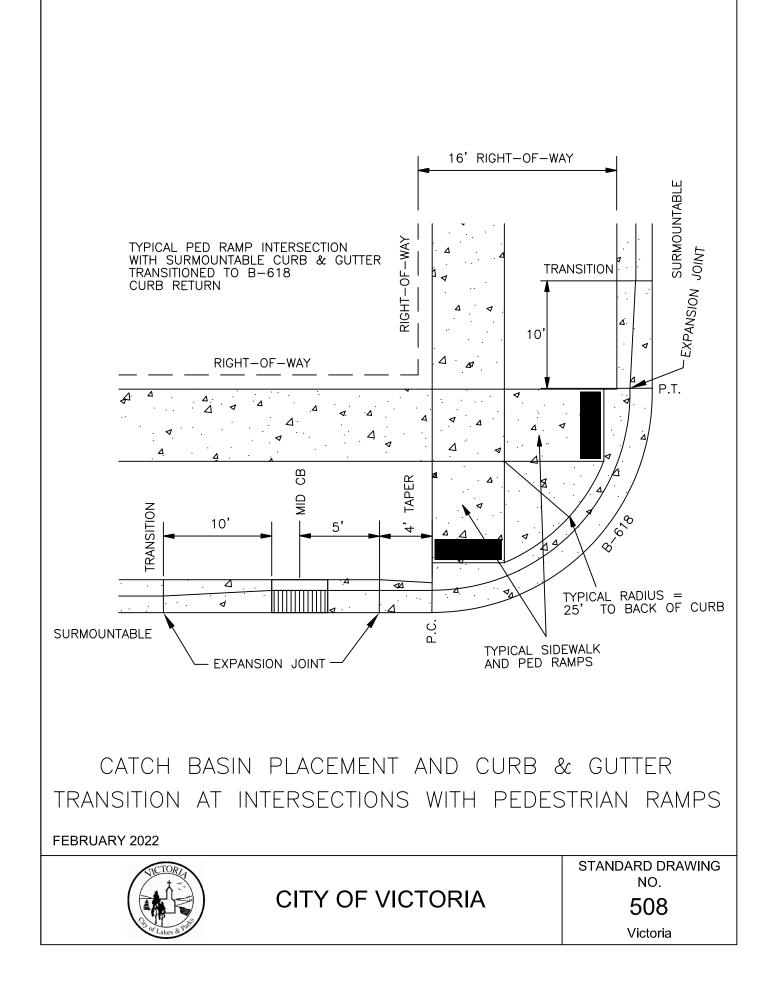


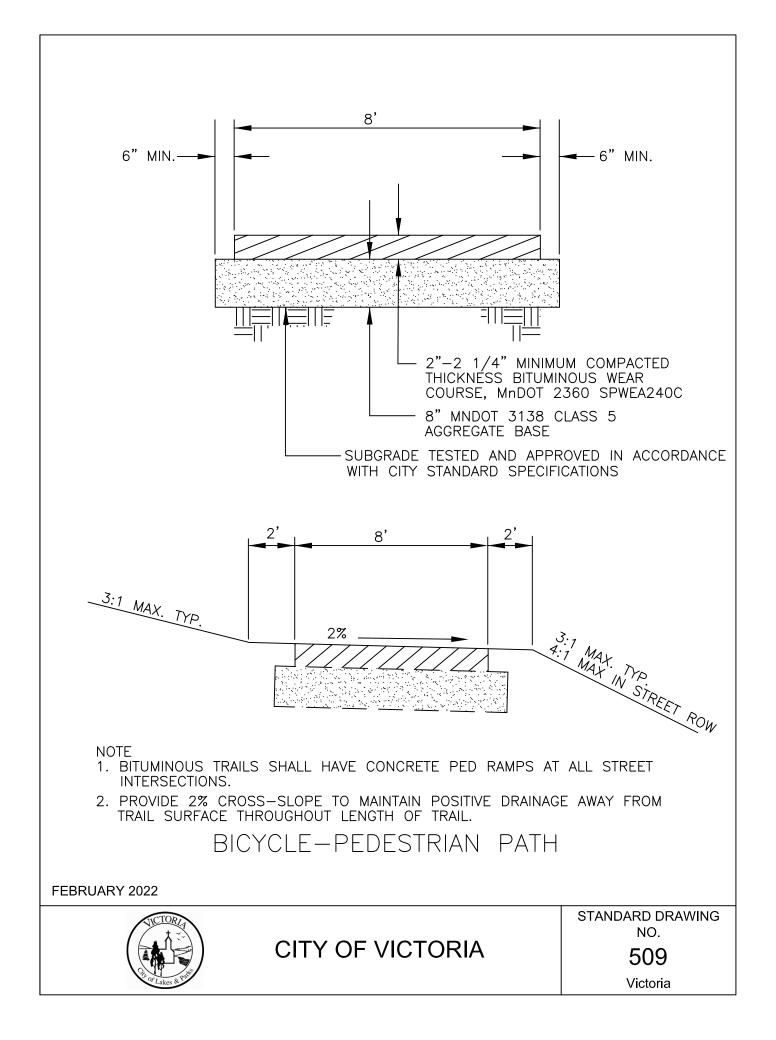
ALL TRUNCATED DOME SYSTEMS SHALL BE PLACED IN STRICT

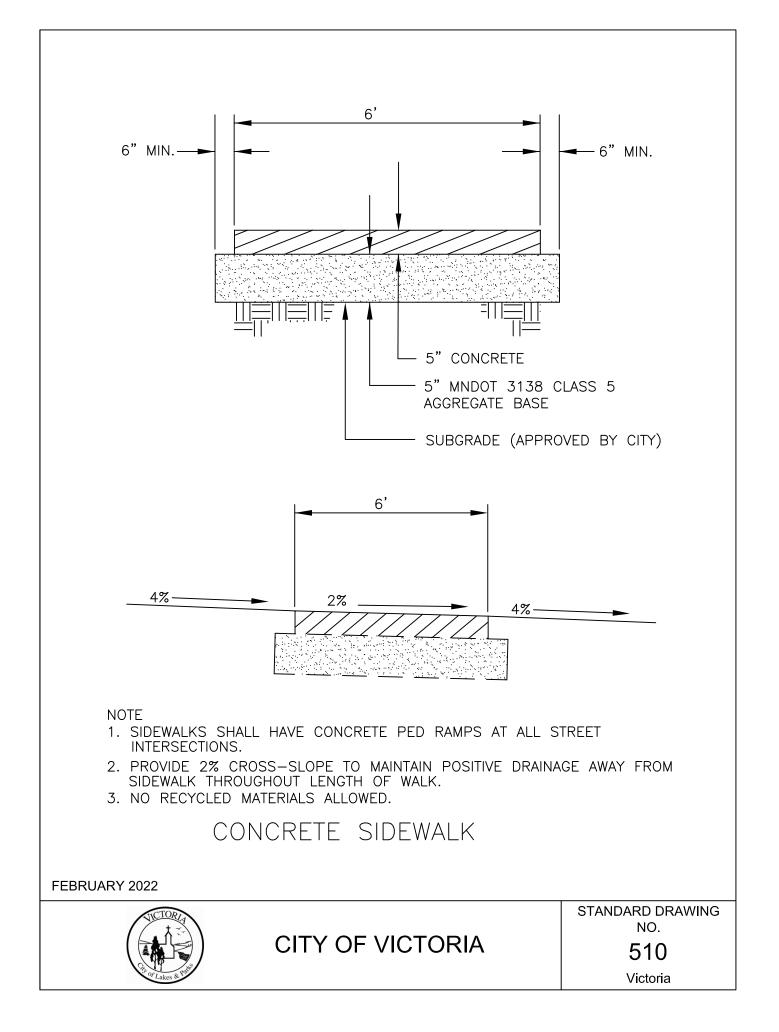
DETECTABLE WARNING SURFACE SHALL BE PAID FOR AS TRUNCATED DOMES BY THE SQUARE FOOT.

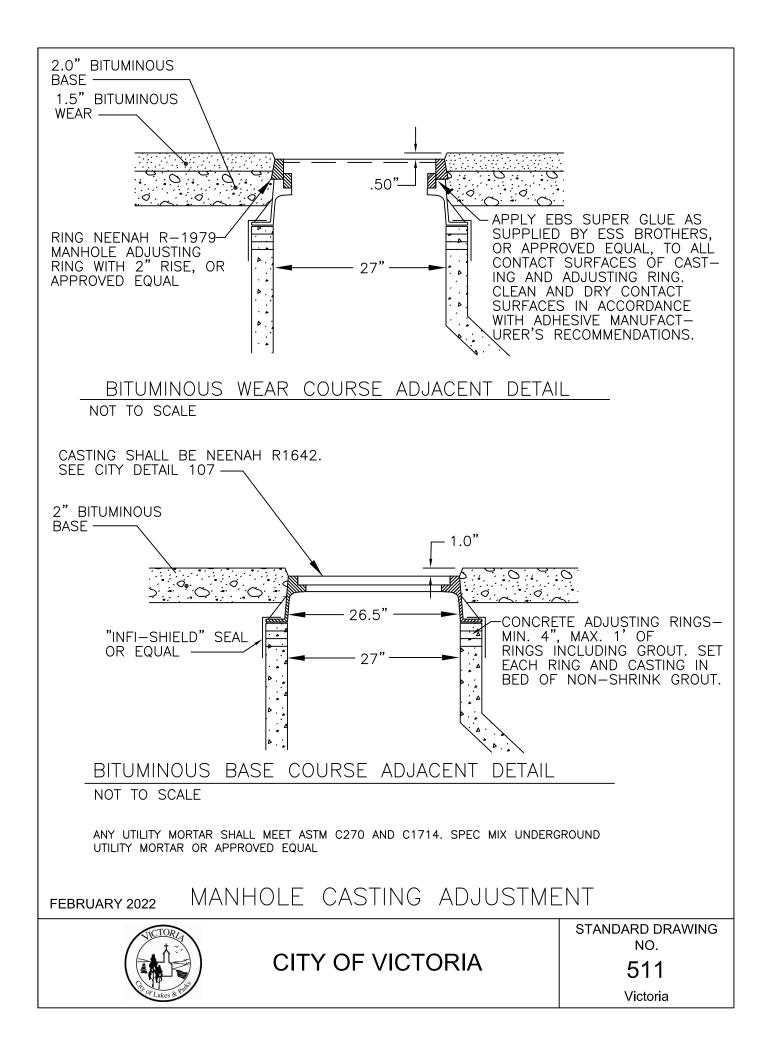
TRUNCATED DOME PANELS SHALL BE FROM MNDOT'S APPROVED/ QUALIFIED PRODUCT LISTS. PANELS SHALL BE CAST IRON AND NATURAL / RUSTY / UNFINISHED IN COLOR.

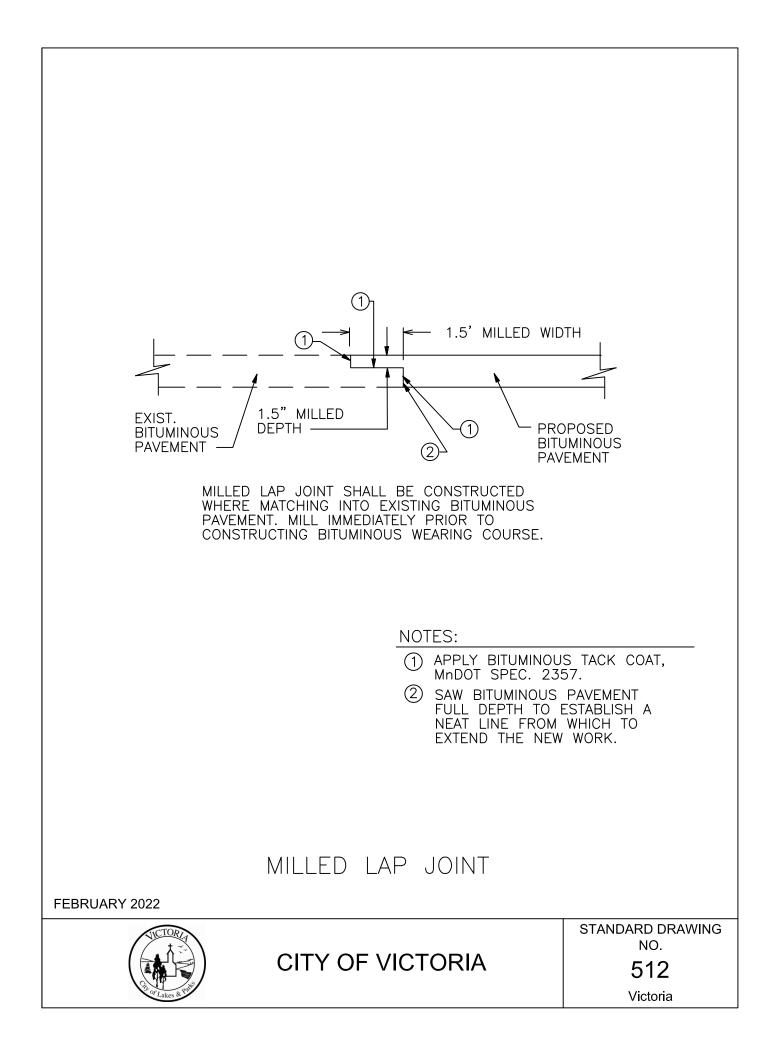


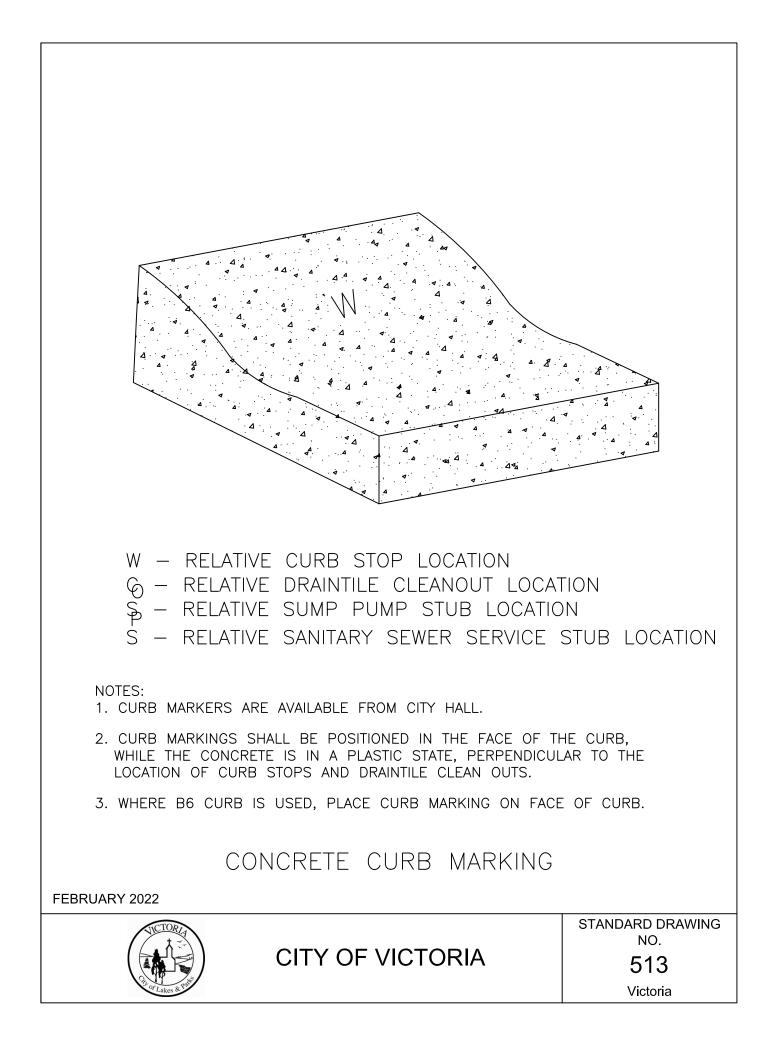












- 1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND IMPLEMENT MINNESOTA POLLUTION CONTROL AGENCY (MPCA) BEST MANAGEMENT PRACTICES (BMP) TO CONTROL SITE SILTATION AND EROSION INTO DRAINAGE WAYS. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AND COMPLETION DATES RELATIVE TO ALL PERMITS ISSUED FOR THE WORK TO BE COMPLETED. THE ENGINEER MAY ISSUE A STOP WORK ORDER FOR ALL DEVELOPMENT WORK AND BUILDING CONSTRUCTION FOR NONCOMPLIANCE WITH THESE MEASURES.
- 2. SEQUENCING. ALL SILT FENCE AND OTHER EROSION CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY ENGINEER PRIOR TO ANY REMOVALS, EXCAVATION OR CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED AND APPROVED BY THE ENGINEER.
- 3. SILT FENCE. THE CONTRACTOR SHALL INSTALL SILT FENCE AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE CITY STANDARD DETAILS. SILT FENCE DAMS AND INTERIM SUMPS SHALL BE PLACED TO INTERCEPT SILT FROM CONCENTRATED RUNOFF FROM OPEN GRADED AREAS. ADDITIONAL SILT FENCE SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- 4. STOCKPILES. ALL STOCKPILE AREAS SHALL HAVE SILT FENCE OR SEDIMENT TRAPPING SYSTEMS PLACED AROUND THE ENTIRE PERIMETER.
- 5. INLET PROTECTION. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL EXISTING STORM SEWER INLETS IN ACCORDANCE WITH THE CITY STANDARD DETAILS. INLET PROTECTION SHALL ALSO BE PROVIDED ON ALL PROPOSED STORM SEWER INLETS IMMEDIATELY FOLLOWING CONSTRUCTION OF THE INLET. INLET PROTECTION MUST BE INSTALLED IN A MANNER THAT WILL NOT IMPOUND WATER FOR EXTENDED PERIODS OF TIME OR IN A MANNER THAT PRESENTS A HAZARD TO VEHICULAR OR PEDESTRIAN TRAFFIC.
- 6. TEMPORARY SEDIMENT BASINS. THE CONTRACTOR SHALL INCORPORATE TEMPORARY SEDIMENT BASINS THROUGHOUT THE CONSTRUCTION SITE TO CAPTURE RUNOFF AND SLOW THE FLOW OF WATER AND ALLOW SEDIMENT TO SETTLE OUT. TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER.
- 7. ROCK CONSTRUCTION ENTRANCE. A ROCK ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED AS SHOWN ON THE PLAN TO REDUCE TRACKING OF SILT AND DIRT ONTO THE PUBLIC STREETS. A GEOTEXTILE FABRIC SHALL BE PLACED UNDERNEATH THE ROCK. THE ROCK SHALL BE PERIODICALLY REPLENISHED TO MAINTAIN THE INTENDED PERFORMANCE. MUD AND DEBRIS SHALL BE REMOVED OR SCRAPED FROM TIRES AND VEHICLE UNDERCARRIAGE PRIOR TO LEAVING THE SITE.
- 8. STREET SWEEPING. ALL STREETS USED FOR ACCESS TO THE SITE AND HAUL ROUTES USED FOR CONSTRUCTION EQUIPMENT AND MATERIAL SUPPLIES SHALL BE CLEANED AT THE END OF EACH WORKING DAY. THE CITY OR ENGINEER MAY ORDER ADDITIONAL SWEEPING OF THE STREETS AS DEEMED REQUIRED AT DEVELOPER/CONTRACTOR EXPENSE.

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- 9. DEWATERING. EACH EXCAVATION SHALL BE KEPT DRY DURING THE COURSE OF ALL WORK HEREIN, INCLUDING SUBGRADE CORRECTION, PIPE INSTALLATION, STRUCTURE CONSTRUCTION AND BACKFILLING, TO THE EXTENT THAT NO DAMAGE FROM HYDROSTATIC PRESSURE, FLOTATION OR OTHER DAMAGE RESULTS. ALL EXCAVATIONS SHALL BE DEWATERED TO A DEPTH OF AT LEAST 3 INCHES BELOW THE BOTTOM OF THE CONCRETE SLAB OR PIPE TO BE INSTALLED THEREIN. THE CONTRACTOR MAY USE ANY METHOD OR COMBINATION OF METHODS FOR DEWATERING HE CHOOSES; HOWEVER, ALL DEWATERING METHODS AND EQUIPMENT WHICH, IN THE OPINION OF THE ENGINEER, ARE INEFFECTIVE SHALL BE ABANDONED, IMPROVED, REPLACED OR OTHERWISE ALTERED TO OBTAIN EFFECTIVE DEWATERING. THE CONTRACTOR SHALL PROVIDE ALL POWER, PUMPS, MATERIALS AND APPARATUS NECESSARY, AND SHALL BE RESPONSIBLE FOR DISPOSING OF THE WATER PUMPED FROM THE EXCAVATION IN A MANNER WHICH WILL NOT INTERFERE WITH OTHER WORK WITHIN THE AREA AND NOT TO DAMAGE PUBLIC OR PRIVATE PROPERTY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE CONDITION OF ANY PIPE, CONDUIT, DITCH, CHANNEL OR NATURAL WATERCOURSE UTILIZED FOR DRAINAGE PURPOSES, AND ALL EROSION, SEDIMENT OR OTHER ADVERSE RESULTS OF THEIR USE SHALL BE REPAIRED.
- 10. POSITIVE DRAINAGE AND PROTECTION. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE SITE AT ALL TIMES. LOW POINTS WITHIN AND ALONG ROADWAYS ARE EXPRESSLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR OTHER MEANS TO FACILITATE PROPER DRAINAGE DURING CONSTRUCTION. TO PROTECT PREVIOUSLY GRADED AREAS FROM EROSION, WOOD FIBER BLANKET SHALL BE PLACED IMMEDIATELY ON STEEP SLOPES (1:3 OR GREATER) AND EMBANKMENTS, PERMANENT AND TEMPORARY PONDS, AND OUTLETS AND OVERFLOWS TO PROTECT THE COMPLETED GRADE AND MINIMIZE SILT IN THE RUNOFF.
- 11. DRAINAGE DITCHES. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER. STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES MUST BE COMPLETE WITHIN 14 DAYS AFTER CONNECTING TO A SURFACE WATER AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.
- 12. TURF ESTABLISHMENT. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

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- 13. MAINTENANCE AND INSPECTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND UNTIL SATISFACTORY ESTABLISHMENT OF PERMANENT GROUND COVER IS OBTAINED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, AND STORMWATER OUTFALLS MUST BE BE INSPECTED WEEKLY, AND WITHIN 24 HOURS OF THE SITE RECEIVING 0.5 INCHES OF RAIN. REPAIRS MUST BE MADE ON THE SAME DAY OR FOLLOWING DAY OF THE INSPECTION. UNSATISFACTORY CONDITIONS NOT REPAIRED OR CLEANED UP WITHIN 48-HOURS OF NOTIFICATION SHALL RESULT IN A STOP WORK ORDER, AND/OR SAID WORK SHALL BE COMPLETED AT CONTRACTOR'S EXPENSE.
- 14. REMOVAL. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL MEASURES, STRUCTURES AND DEVICES ONLY AFTER RECEIVING ENGINEER APPROVAL. ALL DEBRIS, STAKES, AND SILTS ALONG SILT FENCES SHALL BE REMOVED AND DISPOSED OFF SITE. THE CONTRACTOR SHALL HAND RAKE SILTED AREAS ALONG THE FENCE LOCATIONS TO PROVIDE A SMOOTH FINAL GRADE AND SHALL RESTORE THE GROUND SURFACE WITH SEED OR SOD, AS REQUIRED, TO MATCH THE FINISHED GRADE TO THE ADJACENT AREA.
- 15. FINAL STORM SEWER SYSTEM. AT THE COMPLETION OF THE WORK AND BEFORE THE FINAL WALK THROUGH, THE CONTRACTOR SHALL REMOVE STORM SEWER INLET PROTECTION MEASURES AND THOROUGHLY FLUSH THE STORM SEWER SYSTEM. SEDIMENT AND DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED AT THE INLETS, OUTLETS, AND DOWNSTREAM OF EACH OUTLET. RIPRAP AND GEOTEXTILE FABRIC MAY REQUIRE REPLACEMENT AS DIRECTED BY THE ENGINEER TO OBTAIN A LIKE NEW INSTALLATION ACCEPTABLE TO THE CITY.
- 16. DITCH CHECK (BIOROLL BLANKET SYSTEM). BIOROLL AND BLANKET SYSTEMS SHALL BE BE INSTALLED AS DITCH CHECKS ONLY IN SPECIFIED LOCATIONS AS APPROVED BY THE CITY ENGINEER. BIOROLLS ARE NOT TO BE UTILIZED IN AREAS WHERE VEHICLE AND CONSTRUCTION TRAFFIC OCCUR.
- 17. FLOTATION SILT CURTAIN. FLOTATION SILT CURTAIN SHALL BE UTILIZED WHEN CONSTRUCTION ACTIVITIES OCCUR DIRECTLY ADJACENT TO LAKES, STREAMS OR WETLANDS IN ORDER TO CONTAIN SEDIMENTS NEAR THE BANKS OF WORKING AREAS. THE INSTALLATION OF FLOTATION SILT CURTAINS WILL BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- 18. CONCRETE WASHOUT ONSITE. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

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- 1. RESTORE ALL DISTURBED AREAS WITH 6 INCHES OF TOPSOIL CONFORMING TO MNDOT 3877.
- 2. PROTECT ALL STORM SEWER INLETS AS SPECIFIED HEREIN AND MAINTAIN UNTIL STREET CONSTRUCTION IS COMPLETED.
- 3. MAINTAIN ALL SILT FENCE AND REPAIR OR REPLACE AS NEEDED OR REQUIRED UNTIL TURF HAS BEEN ESTABLISHED.
- 4. RESTORATION WORK SHALL BEGIN WITHIN 7 DAYS OF FINAL GRADING.
- 5. PLACE 1 ROW OF MNDOT 3885 CATEGORY 3, TYPE 2S (NATURAL NETTING ON BOTH SIDES) EROSION CONTROL BLANKET (8' MIN) BEHIND BACK OF CURB WITH SEED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. PLACE HEAVY DUTY SILT FENCE (SPEC. 2573.3, TYPE MS/HI) DIRECTLY BEHIND BLANKET. IN AREAS WITH SIDEWALK/TRAIL, INSTALL SILT FENCE ON BACKSIDE OF WALKWAY.
- 6. BOULEVARD AND DITCH RESTORATION INCLUDES FINE GRADING, WHICH INCLUDES THE REMOVAL OF ROCKS, DEBRIS AND SOIL CHUNKS, WHILE MAINTAINING POSITIVE DRAINAGE.
- 7. UPON COMPLETION OF MASS GRADING, ALL DRAINAGE EASEMENTS SHALL BE PROTECTED BY SILT FENCE (OR SIMILAR BARRIER) UNTIL ADJACENT AREAS ARE PERMANENTLY AND FULLY ESTABLISHED.
- 8. CITY OWNED AND MAINTAINED PROPERTY/OUTLOTS PERMANENT RESTORATION: A. BOULEVARDS ADJACENT TO CITY OWNED PROPERTY SHALL BE PERMANENTLY ESTABLISHED WITH 6" TOPSOIL AND SOD. THIS INCLUDES THE ENTIRE AREA BETWEEN BACK OF CURB AND RIGHT OF WAY LINE.
 - B. ALL OTHER AREAS WHERE SOD IS NOT REQUIRED SHALL BE ESTABLISHED WITH 6" TOPSOIL, GRADED TO A SMOOTH MOWABLE CONDITION AND SEEDED WITH MnDOT 3876, CAT 25, MIX 151, HIGH MAINTENANCE TURF MIX, WITH PLS (PURE LIVE SEED) RATE OF 200 LB/ACRE
 - C. EROSION CONTROL BLANKET SHALL BE MnDOT 3885-1, CAT 3N (NATURAL NETTING AND STITCHING)

STANDARD PLAN NOTES SITE RESTORATION PLANS

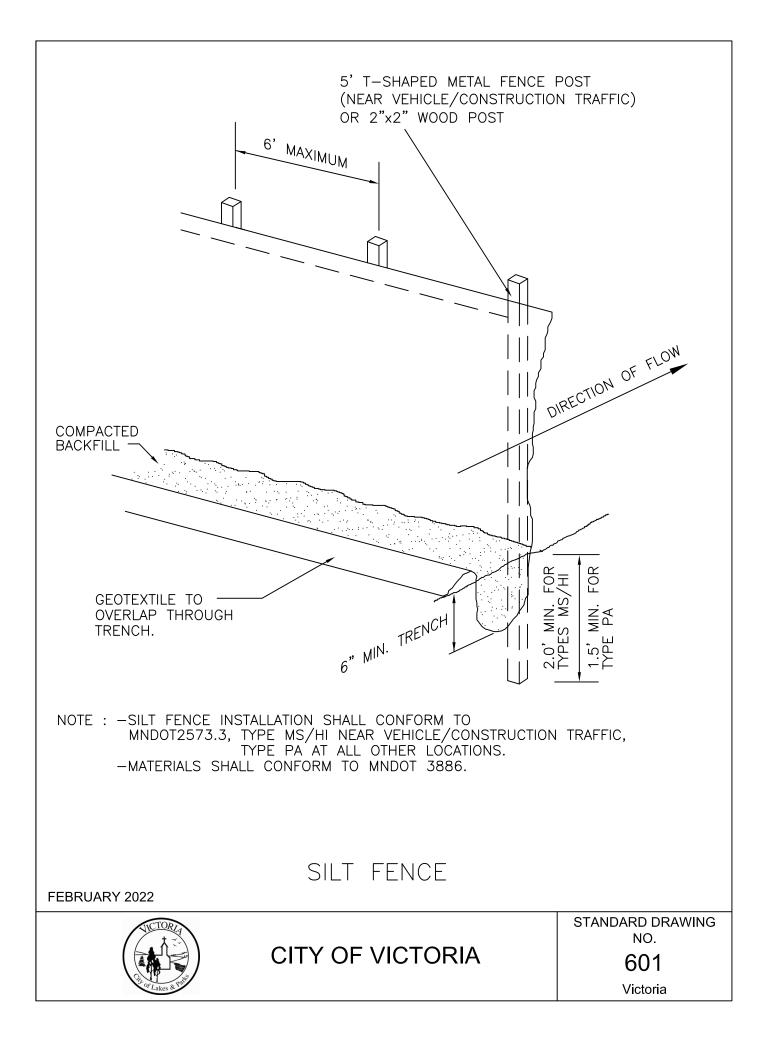
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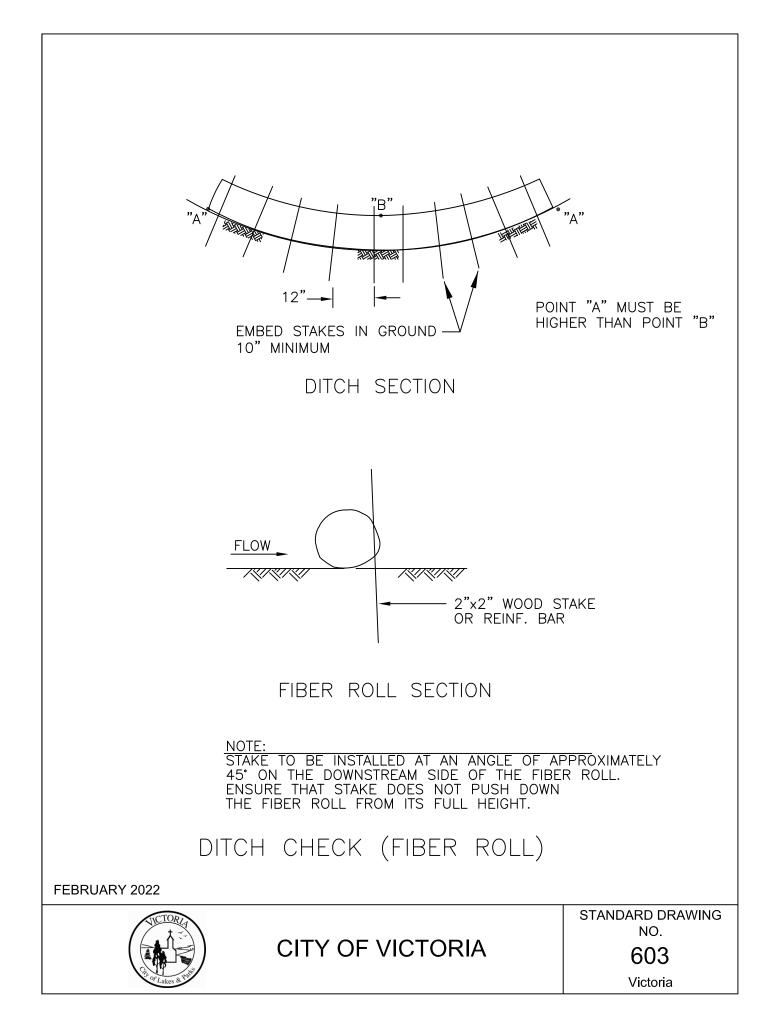


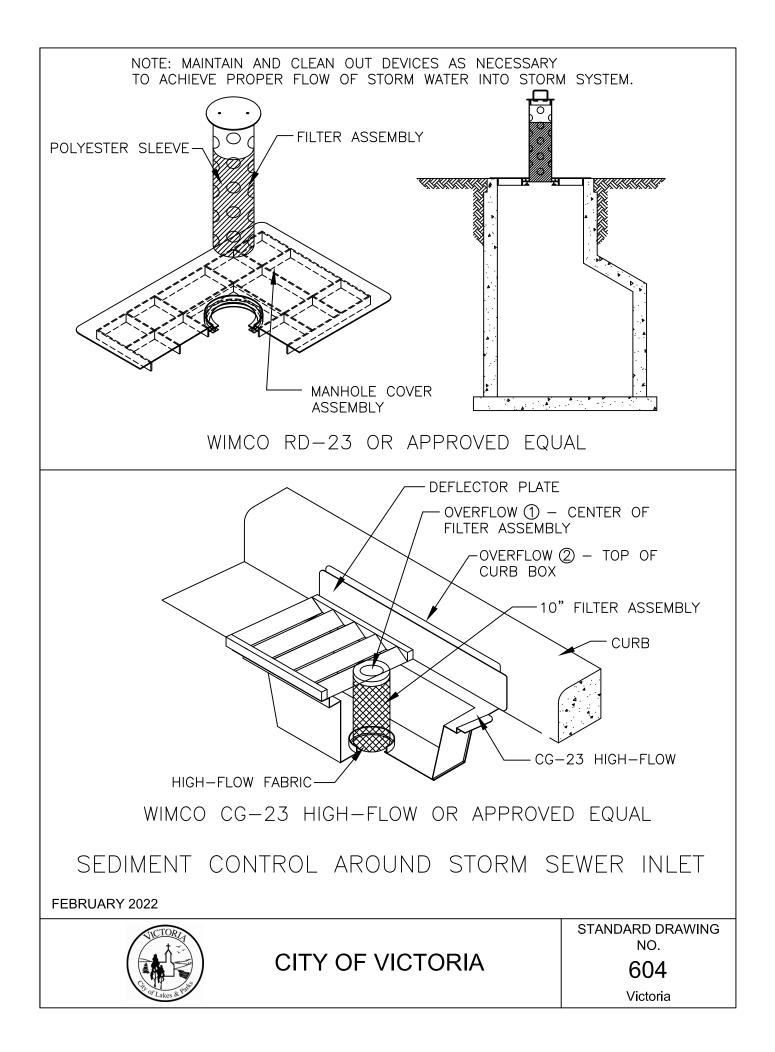
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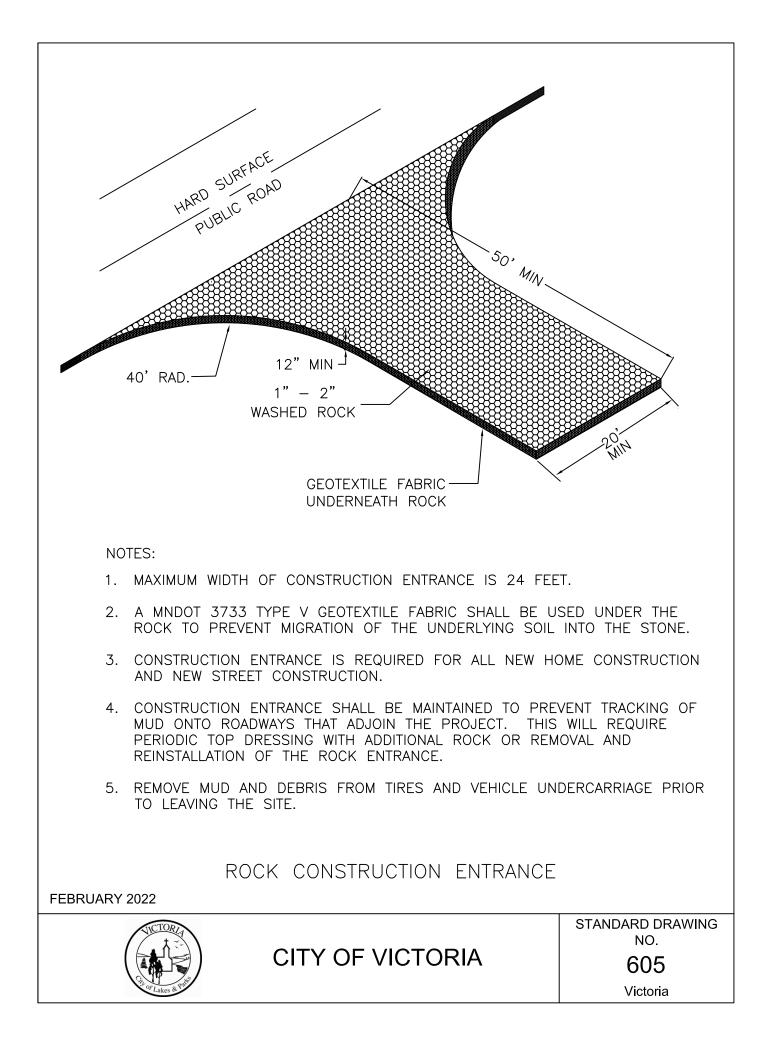
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- 1. STREET LIGHTING SHALL BE INSTALLED PER CITY STANDARDS 5 FEET BACK OF CURB IN LOCATIONS SHOWN ON PLAN.
- 2. ALL SIGNS MUST MEET MMUTCD.
- 3. ALL SIGN SHEATHING TO BE HIGH INTENSITY DIAMOND GRADE DG3.
- 4. SIGN POSTS TO BE UNPAINTED GALVANIZED METAL, 3.0 LBS/FT.
- 5. CITY TO FURNISH AND INSTALL STREET SIGNS.
- 6. POLY PREFORMED PAVEMENT MATERIAL SHALL BE USED FOR ALL PAVEMENT SYMBOLS.
- 7. EPOXY RESIN AND DROP-ON GLASS BEADS FOR PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF MnDOT "SPECIFICATIONS FOR CONSTRUCTION, 2018 EDITION".
- 8. ACRYLIC LATEX WATERBORNE TRAFFIC MARKING PAINT FOR PAVEMENT MARKINGS SHALL CONFORM TO MnDOT 3591 WATER-BASED TRAFFIC PAINT OR APPROVED EQUAL.

SIGNING/PAVEMENT MARKINGS/LIGHTING PLANS

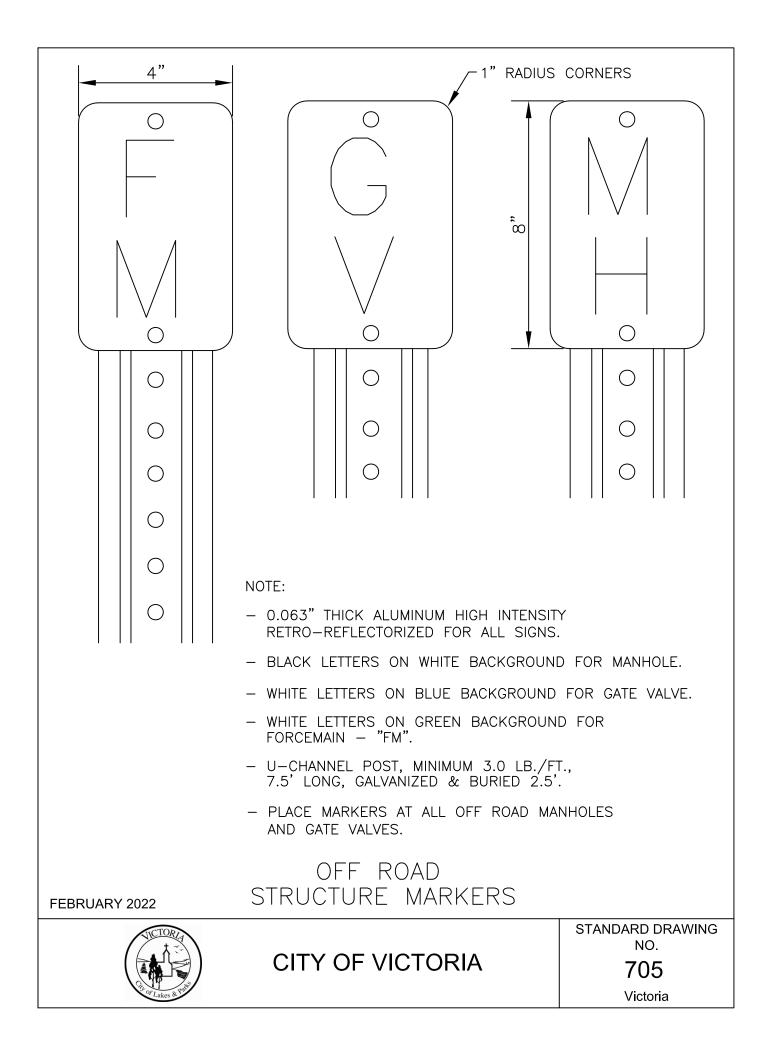
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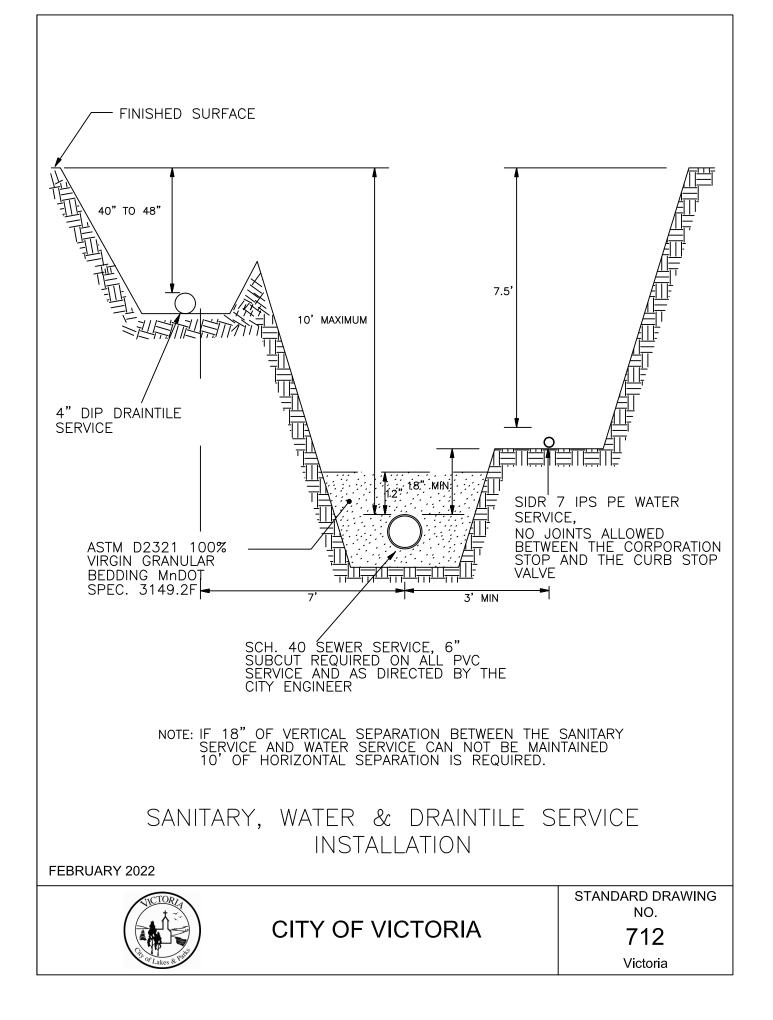


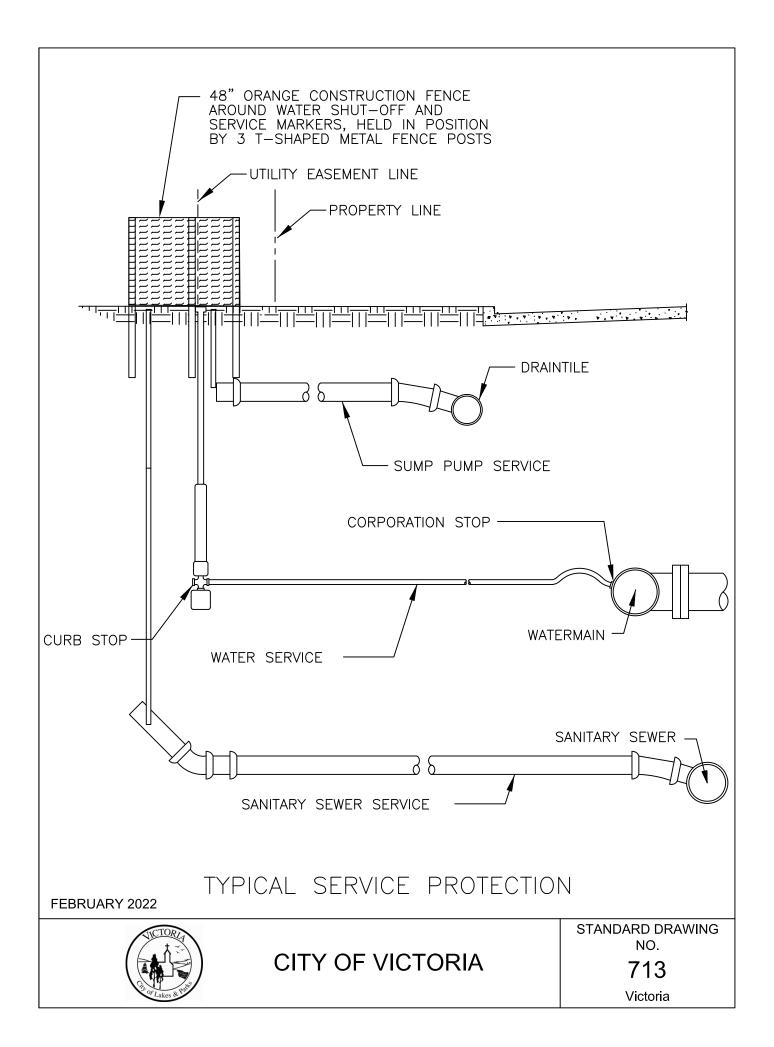
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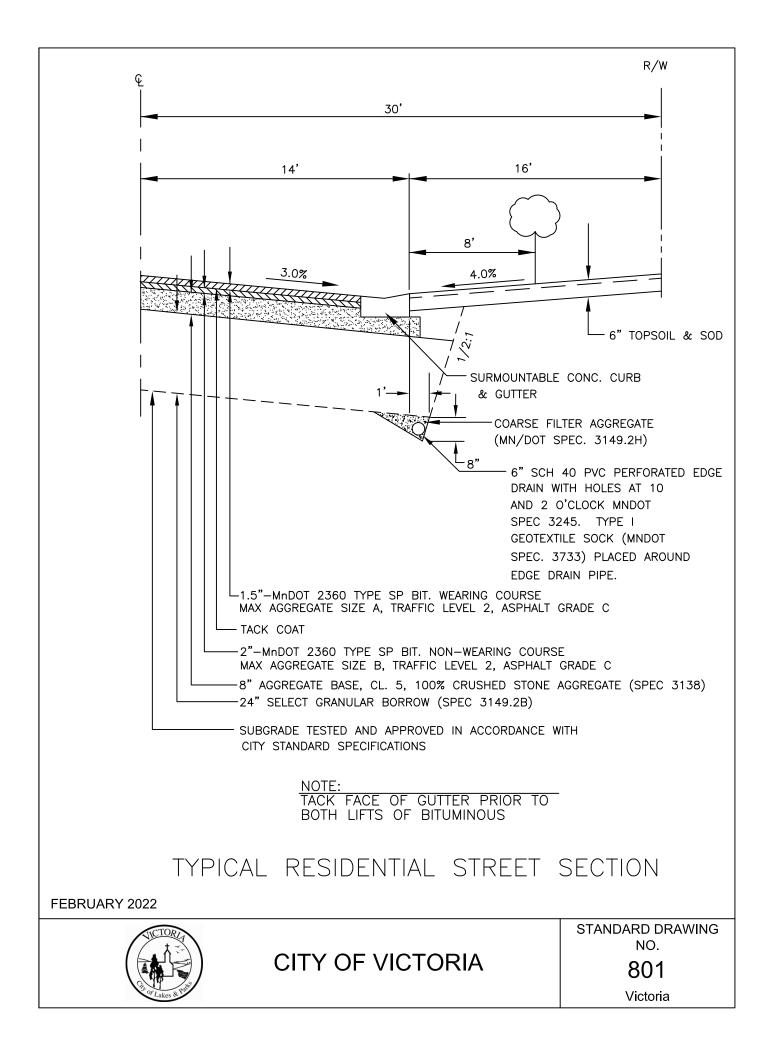
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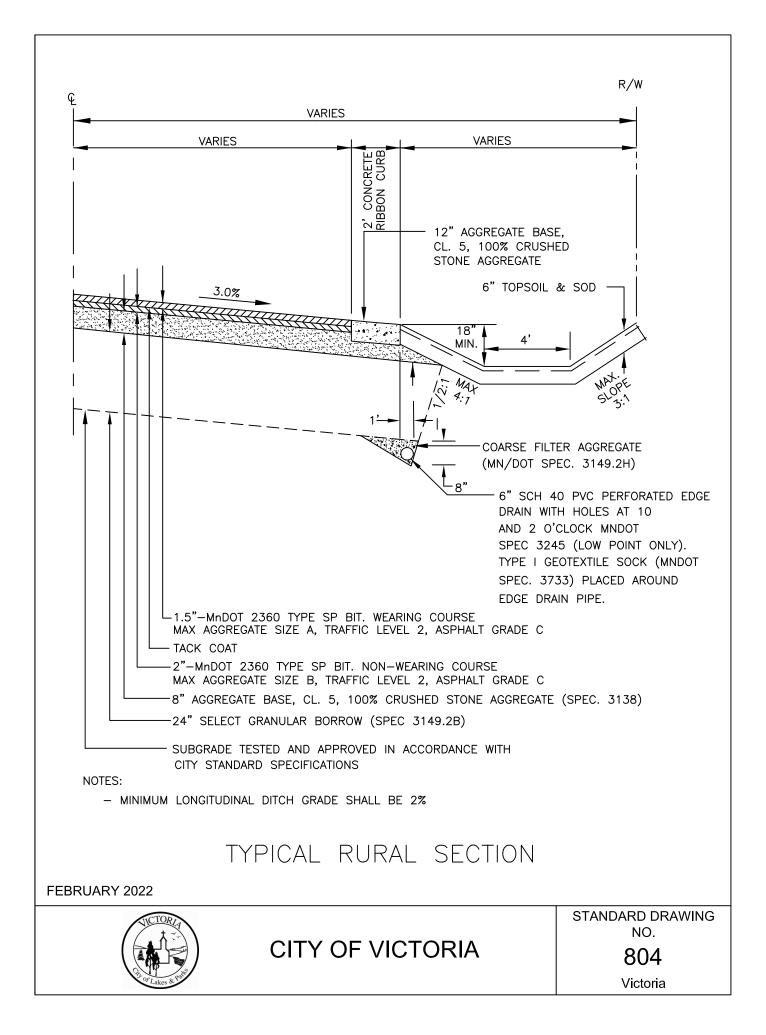
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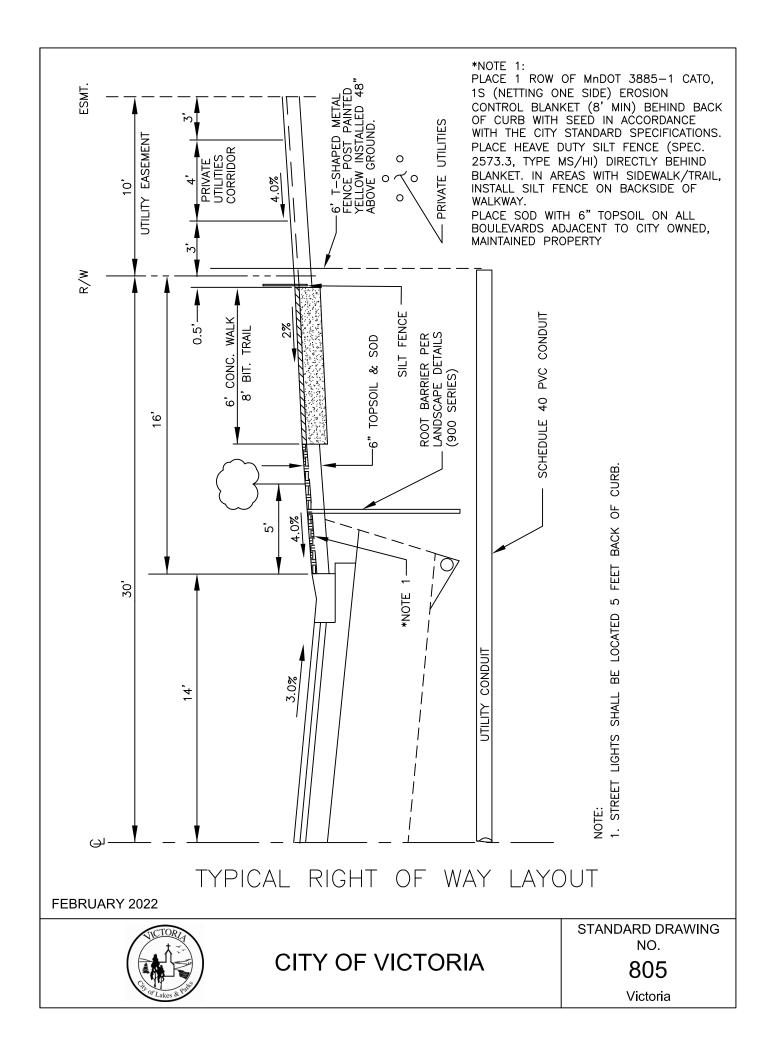


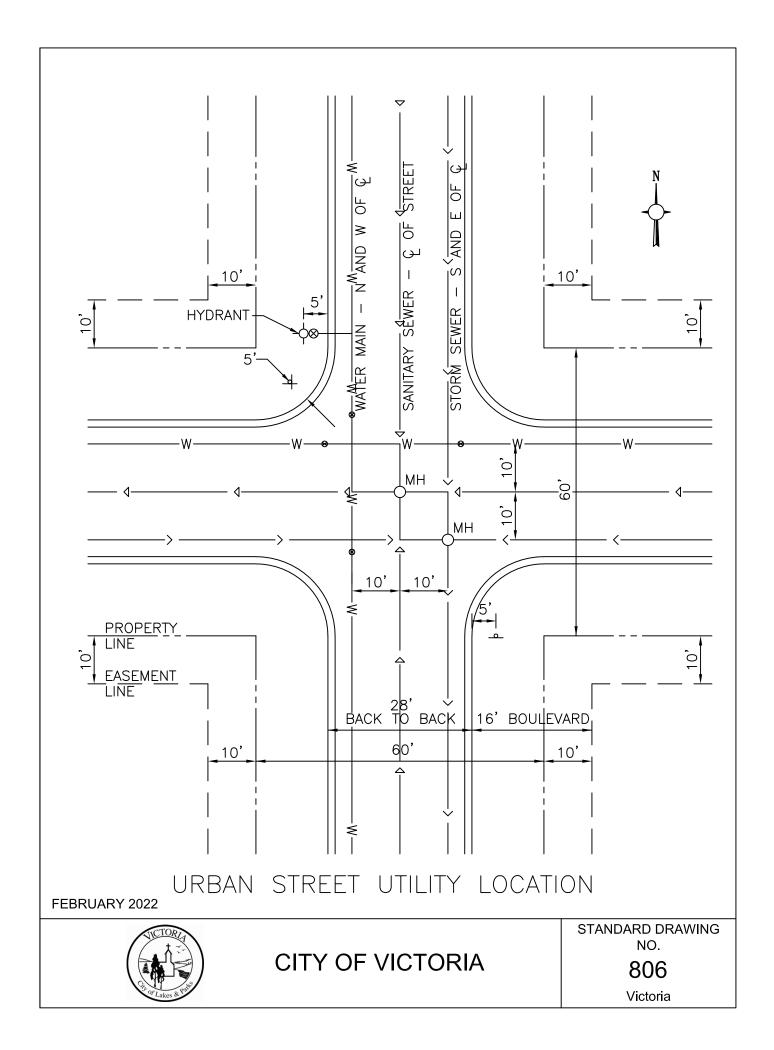


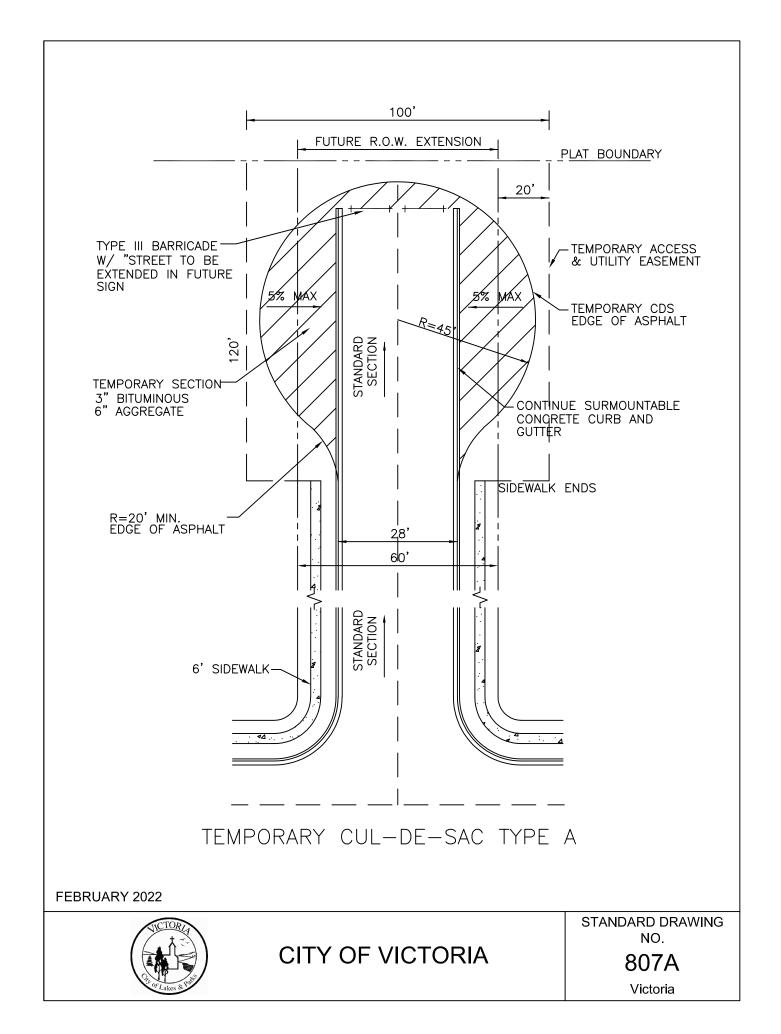


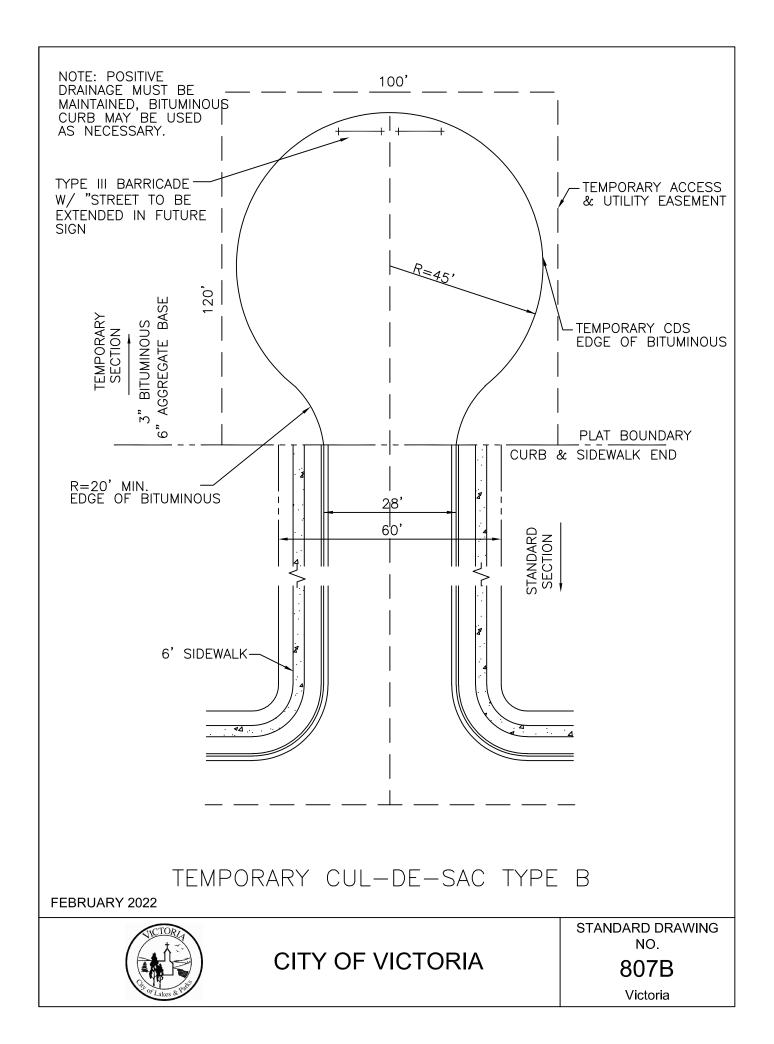












- 1. PRIOR TO TREE STAKING AND PLANTING OPERATIONS CONTRACTOR MUST CONTACT GOPHER STATE ONE CALL (www.gopherstateonecall.org or 811) TO VERIFY UNDERGROUND UTILITIES. WHERE PRIVATE UTILITIES EXIST ON-SITE THE CONTRACTOR IS REQUIRED TO HAVE THOSE LOCATED AS WELL.
- PLANT MATERIALS SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK: ANSI Z60.1 LATEST EDITION. http://americanhort.org/documents/ANSI Nursery Stock Standards AmericanHort 2014.pdf
- 3. NO PLANT SUBSTITUTIONS SHALL BE MADE WITHOUT THE PRIOR WRITTEN AUTHORIZATION FROM THE CITY.
- 4. ALL TREE PROTECTION MEASURES TO BE FIELD STAKED PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE FIELD REVIEW OF PROPOSED TREE PROTECTION LOCATIONS WITH THE CITY AND PROJECT LANDSCAPE ARCHITECT PRIOR TO ANY TREE PROTECTION INSTALLATION.
- 5. ALL TREE LOCATIONS TO BE FIELD STAKED PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE FIELD REVIEW OF PROPOSED TREE LOCATIONS WITH THE CITY AND PROJECT LANDSCAPE ARCHITECT PRIOR TO ANY TREE INSTALLATION.
- 6. ALL PLANTS SHALL BE PLANTED IMMEDIATELY UPON ARRIVAL TO PROJECT SITE. NO PLANT MATERIAL IS TO BE LEFT OVERNIGHT ON THE PROJECT SITE WITHOUT BEING INSTALLED UNLESS WRITTEN APPROVAL BY CITY.
- 7. ALL TREES, SHRUBS, PERENNIALS AND TURF LAWN TO HAVE A ONE YEAR WARRANTY BEGINNING UPON WRITTEN ACCEPTANCE BY THE CITY. DEFECTIVE PLANTS AS DETERMINED BY THE CITY SHALL BE REPLACED WITHIN 30 DAYS OF NOTICE DURING THE GROWING SEASON, AND REPLACEMENT MATERIALS SHALL RECEIVE THE SAME ONE YEAR WARRANTY UNTIL PLANTS ARE SUCCESSFULLY ESTABLISHED.
- 8. CONTRACTOR TO PROTECT AND MAINTAIN ALL PLANTINGS AND PLANT BEDS, INCLUDING PROTECTION FROM WILDLIFE, WEEDING, RE-MULCHING, FERTILIZATION, IRRIGATION AND ALL OTHER TYPICAL FORMS OF HORTICULTURAL CARE UNTIL THE END OF THE WARRANTY PERIOD AS DETERMINED AND APPROVED BY CITY.
- 9. ALL AREAS DISTURBED ADJACENT TO THE PROJECT SITE INCLUDING BOULEVARDS SHALL BE REPAIRED AND MAINTAINED PER CITY DIRECTION.
- 10. PROVIDE A THREE YEAR MAINTENANCE PLAN FOR ALL SEEDING OF PLANT MATERIALS/AREAS WITHIN ALL COMMERCIAL PROPERTIES, COMMONLY HELD HOA AREAS, CITY OUTLOTS AND R.O.W. AREAS.
- 11. ALL TREE PLANTING HOLES WITHIN THE RIGHT-OF-WAY, AND AS DIRECTED BY CITY STAFF, SHALL BE LINED WITH A LINEAR ROOT BARRIER 4-FEET DEEP WHEN ADJACENT TO BACK OF CURB AND/OR WALKWAY. TREES AND ROOT BARRIERS SHALL BE INSTALLED IN LOCATIONS TO AVOID SUMP PUMP SERVICE STUBS.

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