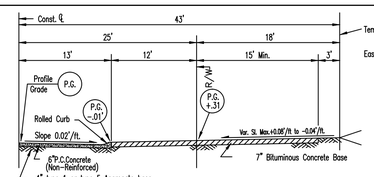
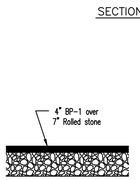
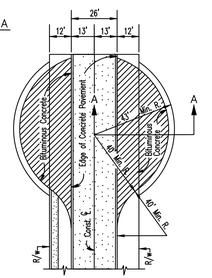
ISSUE	DATE / REMARKS
1	3-3-2015 Initial Submittal
2	5-7-2015 City Comments
3	6-26-2015 City & PWSD #2 Comments
4	11-5-2015 City Comments
5	12-10-2015 City Comments



SECTION A–A



ALTERNATE PAVEMENT



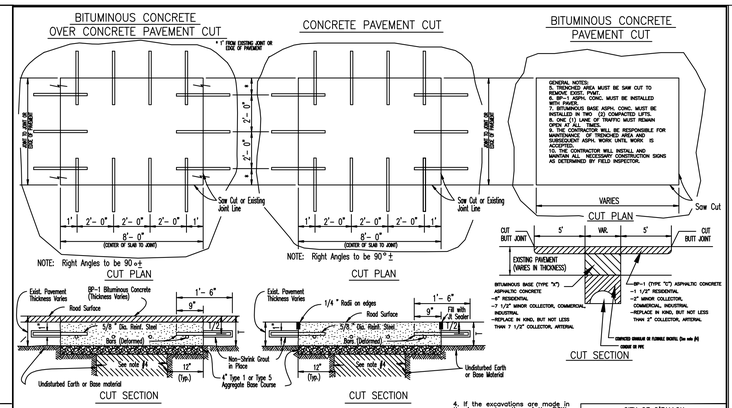
TEMPORARY TURNAROUND

GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. For longitudinal and transverse joints, dowel and tie bar requirements and curb dimensions not shown refer to the Pavement Construction Details for Joints and Curbs.
3. All necessary pavement markings shall be as required by City of O'Fallon.
4. For roadway cross slopes, pavement types and thickness refer to "Standard Typical Sections."
5. Permits will not be issued for building construction on lots abutting a temporary turnaround unless and until the turnaround is actually constructed.
6. The removal of the temporary turnaround surface, the restoration of the disturbed ground, and the extension of any sidewalk shall be the responsibility of the party(ies) that will be extending the street.
7. Other temporary turn around types can be considered depending on type and dimensions
8. Stub streets over two hundred fifty (250) feet shall have a minimum temporary turnaround pavement radius of forty (40) feet, covered by a temporary turnaround easement to remain until the road is extended and platted. In lieu of turnarounds, the Planning and Zoning Commission may approve a "T" or "Y" shaped paved space on streets which are less than two hundred fifty (250) feet in length and are planned to be extended in the future.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS
RESIDENTIAL
TEMPORARY TURNAROUND



GENERAL NOTES

1. If a permit is issued to replace the existing asphaltic concrete pavement with full depth bituminous concrete pavement and concrete pavement is found under the existing asphaltic concrete pavement, the applicant will be required to follow the Detail for Bituminous Concrete over Concrete Pavement Cut. The applicant will use Dolomite or equivalent to replace the existing concrete and use 4" Type 1 or Type 5 Aggregate over Granular Backfill or Flowable as a subbase. Concrete sets up in approximately 4 hours at which time the BP-1 Bituminous Concrete Overlay can be applied to the base course.
2. If Bituminous Concrete over Concrete Pavement or Concrete Pavement is broken before specifying the pavement full concrete slab replacement will be required.
3. Minimum Thickness for Pavement Replacement is:

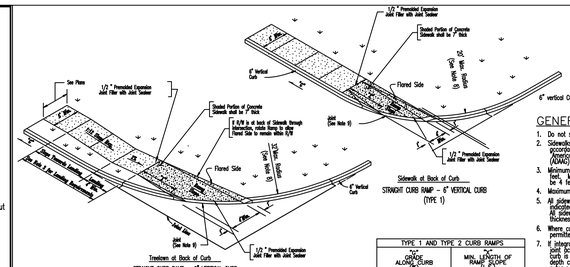
	CONCRETE (T)	BITUMINOUS (T)
All Residential Minor and Local Streets	6"	7 1/2"
Residential Collector, All County Non-Residential Streets	7"	9 1/2"
All Arterial Streets	8"	12"

Pavement Replacement will require 4" Type 1 or Type 5 Aggregate Base Course, Granular Backfill and Base will be compacted by mechanical tamping methods in lifts no greater than 6 inches.

4. If the excavations are made in the improved portion of the ROW, backfill and repair of pavement will be placed in approved facilities and controlled low strength material (CLSM) also flowable fill will fill the hole within eight inches of the finished surface for concrete pavements. There will be a plastic geotextile fabric placed on the rock base and the CLSM to prevent the material from bleeding into the rock base. The remaining eight inches will be restored by placing a twenty eight day minimum strength, four thousand psi concrete mix.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

DETAILS OF TEMPORARY OPENINGS IN ROADWAY PAVEMENT



GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Sidewalks and sidewalk curb ramps shall be constructed in accordance with these details and the current approved Americans with Disabilities Act Access Ibility Guidelines (ADAAG)
3. Minimum sidewalk width along 6" vertical curb shall be 5 feet. Minimum sidewalk width along 3" rolled curb shall be 4 feet.
4. Maximum sidewalk cross slope 0.02"/ft..
5. All sidewalk sections shall be 4" thick, except where indicated as 7" thick by shaded portions shown on details.
6. Where curb ramp meets pavement, Bullnose will not be permitted.
7. If integral concrete curb is constructed, strike a dummy joint across bottom of ramp at curb line. If concrete curb is doweled-on, block out pavement to provide full depth curb across ramp from outer point of curb taper to outer point of curb taper.
8. For pavement longitudinal and transverse joints and dowel and tie bar requirements and dimensions, refer to the Pavement Construction Details for "Joints and Curbs".
9. For roadway cross slopes, pavement types, and thicknesses, refer to "Standard Typical Sections".
10. The intersection of two sidewalks or the intersection of a sidewalk and a driveway may serve as a wheelchair passing space on sidewalks less than 5 feet wide.
11. All curb ramps shall have a detectable warning complying with "Americans with Disabilities Act Accessibility Guidelines" (ADAAG).

TYPE 1 AND TYPE 2 CURB RAMPS	
"X" GRADE ALONG CURB	MIN. LENGTH OF RAMP "L" (L.F.)
NEGATIVE (-) VALUES	6
0 TO +1	7
+1.01 TO +2	8
+2.01 to +3	10
+3.01 to +4	12
GREATER THAN +4	15

NOTE: Profile (1/16"- Proceeding away from intersection and up a grade.

Negative (-)1/16"- Proceeding away from intersection and down a grade.

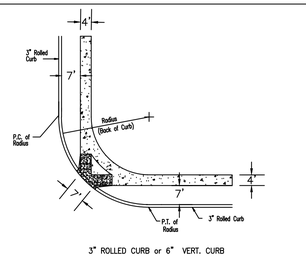
TYPE 3 CURB RAMP	
"X" GRADE ALONG CURB	MIN. LENGTH OF RAMP "L" (L.F.)
NEGATIVE (-) VALUES	3
0 to +2	4
+2.01 to +3	5
+3.01 to +4	6
+4.01 to +5	8
+5.01 to +6	11
GREATER THAN +6	15

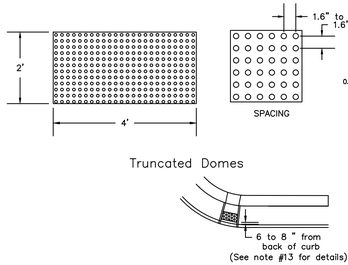
NOTE: Profile (1/16"- Proceeding away from intersection and up a grade.

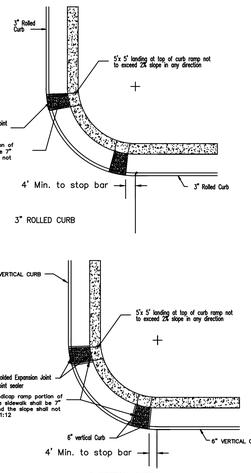
Negative (-)1/16"- Proceeding away from intersection and down a grade.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CONCRETE SIDEWALK WITHIN CUL-DE-SACS





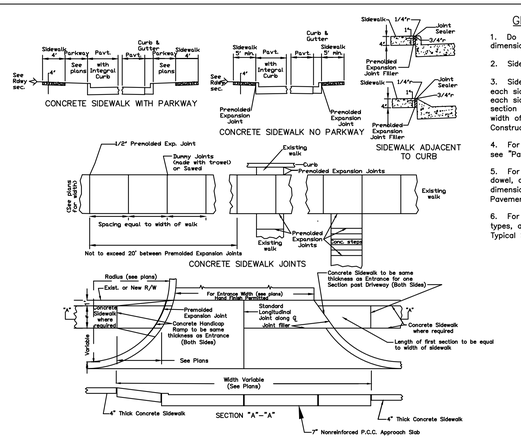


GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Sidewalks and sidewalk curb ramps shall be constructed in accordance with these details and the current approved Americans with Disabilities Act Access Ibility Guidelines (ADAAG)
3. Minimum sidewalk width along 6" vertical curb shall be 5 feet. Minimum sidewalk width along 3" rolled curb shall be 4 feet.
4. Maximum sidewalk cross slope 0.02"/ft..
5. All sidewalk sections shall be 4" thick, except where indicated as 7" thick by shaded portions shown on details.
6. Where curb ramp meets pavement, Bullnose will not be permitted.
7. If integral concrete curb is constructed, strike a dummy joint across bottom of ramp at curb line. If concrete curb is doweled-on, block out pavement to provide full depth curb across ramp from outer point of curb taper to outer point of curb taper.
8. For pavement longitudinal and transverse joints and dowel and tie bar requirements and dimensions, refer to the Pavement Construction Details for "Joints and Curbs".
9. For roadway cross slopes, pavement types, and thicknesses, refer to "Standard Typical Sections".
10. The intersection of two sidewalks or the intersection of a sidewalk and a driveway may serve as a wheelchair passing space on sidewalks less than 5 feet wide.
11. All curb ramps shall have a detectable warning complying with "Americans with Disabilities Act Accessibility Guidelines" (ADAAG).
12. All ramps must line up with the coresponding ramp on the other side of the street or intersection.
13. All truncated domes shall run paralle to the road that it's crossing.
14. Truncated warning domes shall not be stamped and will be a ADA approved product.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS
CONCRETE SIDEWALK AND CURB RAMPS

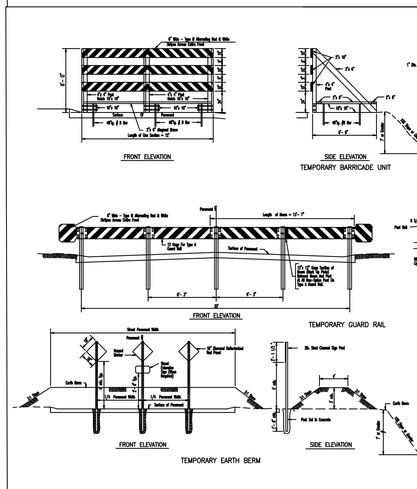


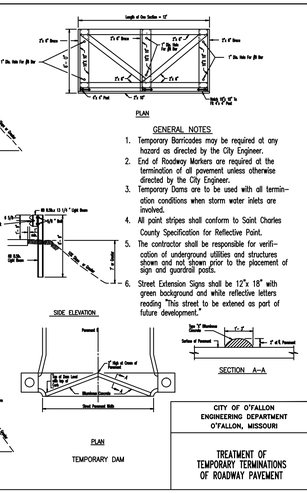
GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Sidewalk cross slope 0.02"/ft.
3. Sidewalk thickness increases to 6" on each side of Private Driveways and 7" on each side of Commercial Driveways for one section of sidewalk equal in length to the width of the sidewalk. See "Entrance Construction Details".
4. For sidewalk locations on Cul-De-Sacs see "Pavement Construction Details".
5. For longitudinal and transverse joints, dowel, and tie bar requirements and dimensions refer to the "Integral Curb Pavement Typical Sections and Details".
6. For roadway cross slopes, pavement types, and thickness, refer to "Standard Typical Section".

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CONCRETE SIDEWALK THROUGH COMMERCAL ENTRANCES



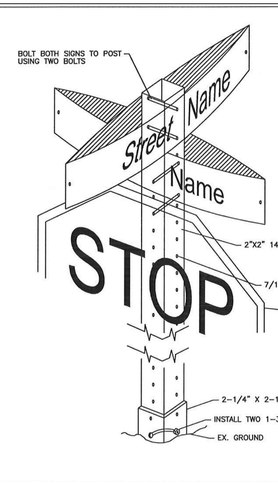


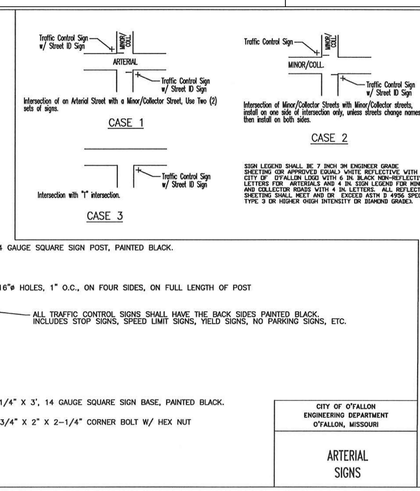
GENERAL NOTES:

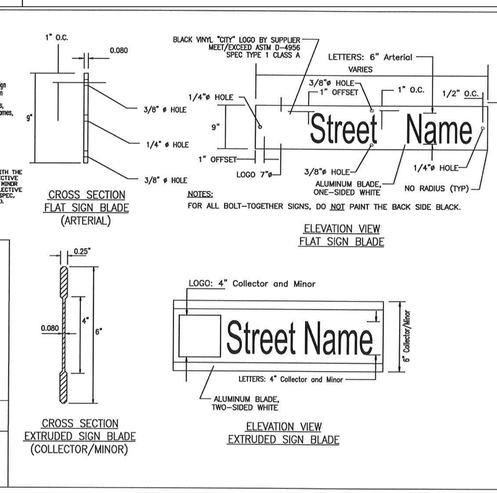
1. Temporary Barricades may be required at any hazard as directed by the City Engineer.
2. End of Roadway Markers are required at the termination of all pavement unless otherwise directed by the City Engineer.
3. Temporary Dams are to be used with all termination conditions when storm water inlets are involved.
4. All paint stripes shall conform to Saint Charles County Specification for Reflective Paint.
5. The contractor shall be responsible for verification of underground utilities and structures shown and not shown prior to the placement of sign and guardrail posts.
6. Street Extension Signs shall be 12"x 18" with green background and white reflective letters reading "This street to be extened as part of future development."

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

TREATMENT OF TEMPORARY TERMINATIONS OF ROADWAY PAVEMENT







GENERAL NOTES:

1. ALL SIGN POST AND BACK OF SIGNS THAT ARE TO BE PAINTED BLACK SHALL USE A PAINT SYSTEM THAT PROVIDES A MINIMUM 7 YEARS OF EXPECTANCY. WHAT USES:
   a) "CARBOLINE RUSTBOND" BASE AT 1-2 MILS THICK, "CARBOLINE 893 SG" MID-LAYER AT 3-5 MILS THICK, "CARBOLINE 133 HB" TOP COAT OR APPROVED EQUAL,
   OR
   b) ELECTROSTATICALLY APPLIED, BLACK POWDER COATED AND BAKED ON PAINT SYSTEM AT 2-3 MILS THICKNESS OR APPROVED EQUAL.
2. ALL SIGN LOCATIONS AND SIZES MUST BE APPROVED BY THE ENGINEERING DIVISION PRIOR TO INSTALLATION.
3. STREET NAME SIGN PLATES SHALL BE 9 INCHES WIDE FLAT, BOLT TOGETHER FOR ANY ARTERIAL INTERSECTIONS AND 6 INCHES WIDE EXTRUDED ALUMINUM PANELS FOR ALL MINOR AND COLLECTOR ROADS. TYPICAL LENGTHS FOR MINOR AND COLLECTOR SIGNS SHALL BE 24, 30 & 36 INCH LENGTHS, OR LONGER AS REQUIRED TO ACCOMODATE STREET NAME.
4. SIGN LEGEND SHALL BE 7 INCH 3M ENGINEER GRADE SHEETING OR APPROVED EQUAL; WHITE REFLECTIVE WITH THE CITY OF O'FALLON LOGO WITH 6 INCH BLACK NON-REFLECTIVE LETTERS FOR ARTERIALS AND 4 INCH SIGN LEGEND FOR MINOR AND COLLECTOR ROADS WITH 4 INCH LETTERS. ALL REFLECTIVE SHEETING SHALL MEET AND OR EXCEED ASTM-D-4956 SPEC. TYPE 3 OR HIGHER (HIGH INTENSITY OR DIAMOND GRADE).
5. "CLEARVIEW" FONT SHALL BE USED ON ALL STREET SIGNS.
6. SIGN POSTS SHALL BE HEAVY "U" CHANNEL (2 LBS/FT) PAINTED BLACK STEEL POSTS FOR COLLECTOR/MINOR STREETS. ARTERIAL STREETS SHALL HAVE 2" SQUARE POSTS WITH BREAKAWAY ASSEMBLY.
7. SIGN POSTS SHALL EXTEND A MINIMUM OF 30 INCHES INTO THE GROUND AND PLUM.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOWN OR NOT SHOWN. PLEASE CONTACT THE CITY OF O'FALLON FOR LOCATION OF CITY UTILITIES NOT FOUND BY DIG-RITE SERVICES.
9. SIGNS SHALL NOT CREATE A SIGHT DISTANCE PROBLEM OR CONFLICT WITH PEDESTRIAN TRAFFIC.
10. SPEED LIMIT SIGNS MUST BE AT EVERY ENTRANCE TO A SUBDIVISION, ON THE FIRST LOT AND APPROXIMATELY EVERY SECOND LOT AND APPROXIMATELY EVERY TWO THOUSAND (2,000) FEET THERE AFTER. ALSO, EVERY CONNECTING SIDE STREET MUST HAVE ONE SPEED LIMIT SIGN APPROXIMATELY FIFTY FEET FROM THE INTERSECTION AND APPROXIMATELY EVERY TWO THOUSAND (2,000) FEET THERE AFTER.
11. ALL SIGNS UNLESS OTHERWISE STATED, SHOULD BE CONSTRUCTED AND INSTALLED PER MUTCD.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

ARTERIAL SIGNS

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

SIGNS, DETAILS AND LOCATIONS

CONCRETE NOTE:
ALL NON-REINFORCED CONCRETE SHALL BE 4,000 PSI AT 28 DAYS

PROJECT TITLE

The Villages at Shady Creek

O'FALLON, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-sur.com
Corporate Certificate of Authority #001348

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STATE OF MISSOURI
RODNEY ARNOLD
NUMBER PE-2002016612
PROFESSIONAL ENGINEER

Date: 12/10/2015
RODNEY ARNOLD
LICENSE # PE-2002016612
Civil Engineer

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www.lombardohomesstlouis.com

PAVEMENT DETAILS

P+Z No.	P&Z NO
City No.	15-162-SP
Date:	12/10/2015
Job No.	14-03-087
Page No.	DTL-11

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Drawing name: V:\14-03087 GRIFF\TM\Drawings\Engineering\Improvements\03087\MP-DETAILS.dwg Plotted on: Dec 15, 2015 - 10:59am Plotted by: bmeister

"Final Plan" Approval Date: January 8, 2015 (26–14.01)