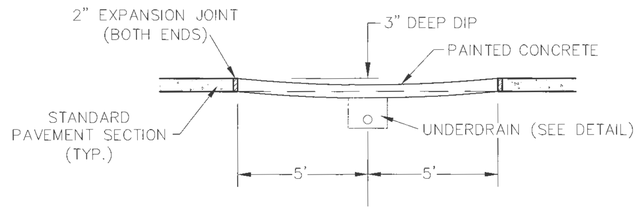
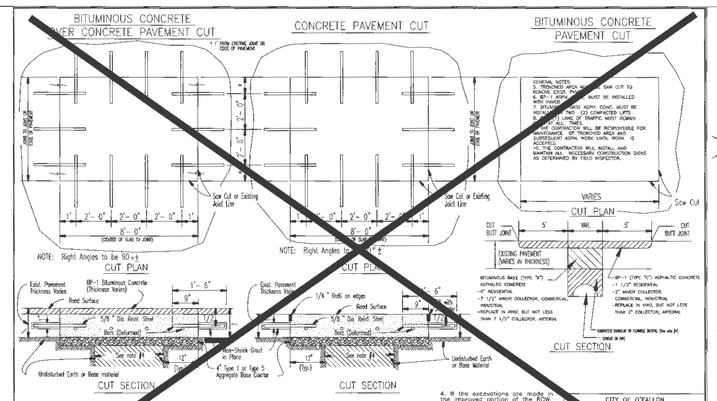


PAVEMENT DIP CROSS SECTION

(NOT TO SCALE)
NOTE: MAINTAIN CROWN AND CROSS-SLOPES THROUGHOUT DIP.



GENERAL NOTES

1. If a permit is issued to remove existing rigidrigidly connected pavement or existing bituminous concrete pavement or concrete pavement or paved curb or existing rigidrigidly connected concrete pavement, the applicant will be required to follow the Bituminous Concrete over Concrete Pavement Cut. The applicant will use bituminous equivalent to replace the existing concrete section with 4" Type 1 or Type 5 Aggregate over Granular Backfill or Payment as a contract. 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 cancelling the pavement full concrete slab replacement will be required.

3. Minimum Thickness for Pavement Replacement is:

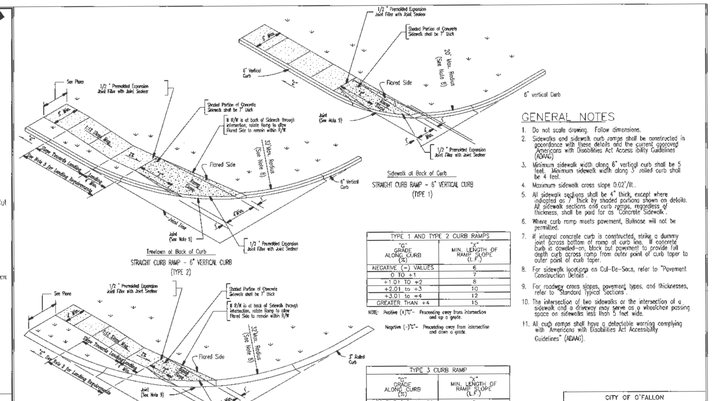
	CONCRETE (T)	BITUMINOUS (T)
All Residential Minor and Local Streets	5"	7 1/2"
Residential Collector, All County and Non-Residential Streets	7"	9 1/2"
All Arterial Streets	8"	12"

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 R/W, the excavated material shall be placed in a manner that will be placed over approved locations and controlled low strength material (CLSM) also flowable fill will fill the hole within eight inches of the finished surface for concrete pavement. For CLSM, use a plastic membrane placed between the rock base and the CLSM to prevent the material from bleeding into the rock base. For removing eight inches will be testing the CLSM after the first eight stay minimum strength four thousand psi concrete mix.

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

DETAILS OF TEMPORARY OPENINGS 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. All sidewalk sections with curb ramps, regardless of thickness, shall be paid for as "Concrete Sidewalk".
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. For sidewalks on Cul-De-Sacs, refer to "Pavement Construction Details".
11. For roadway cross slopes, pavement types, and thicknesses, refer to "Standard Typical Sections".
12. 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.
13. All curb ramps shall have a detectable warning complying with "Americans with Disabilities Act Accessibility Guidelines" (ADAAG).

TYPE 1 AND TYPE 2 CURB RAMPS	
% GRADE ALONG CURBS (%)	MIN. LENGTH OF RAMP (L.F.)
NEGATIVE (-) VALUES	6
+1.01 to +2	7
+2.01 to +3	8
+3.01 to +4	10
+4.01 to +5	12
GREATER THAN +5	15

NOTE: Positive (+)%:- Proceeding away from intersection and up a grade.
Negative (-)%:- Proceeding away from intersection and down a grade.

TYPE 3 CURB RAMP	
% GRADE ALONG CURBS (%)	MIN. LENGTH OF RAMP (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: Positive (+)%:- Proceeding away from intersection and up a grade.
Negative (-)%:- Proceeding away from intersection and down a grade.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
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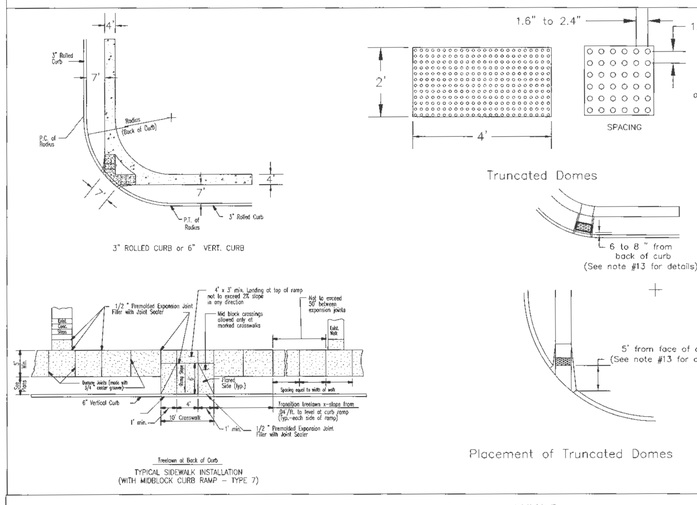
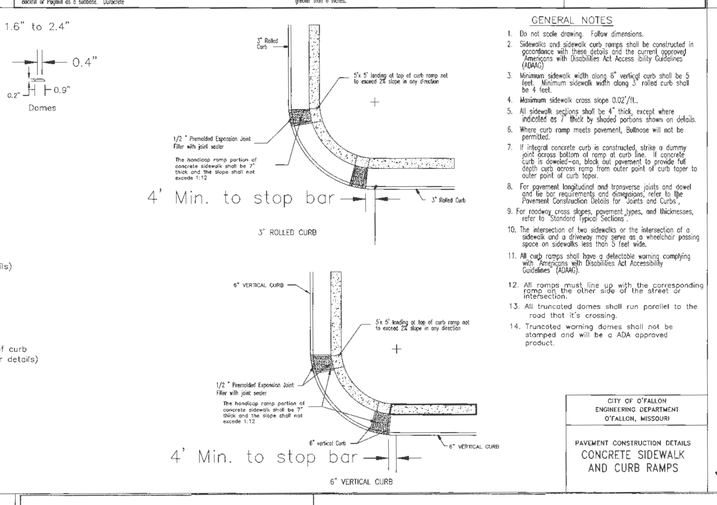
CONCRETE SIDEWALK WITHIN CUL-DE-SACS



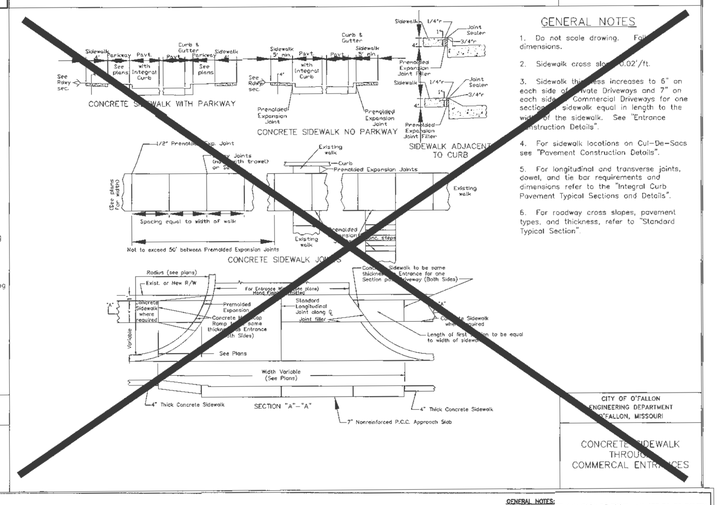


GENERAL NOTES

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 corresponding ramp on the other side of the street or intersection.
13. All truncated domes shall run parallel 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

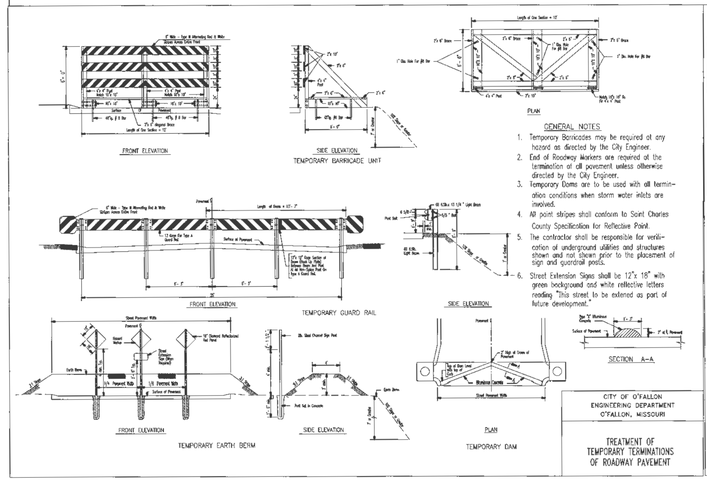


GENERAL NOTES

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

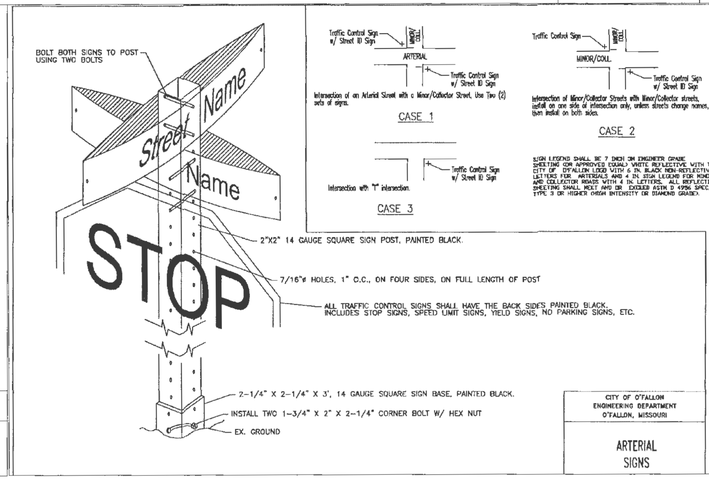


GENERAL NOTES:

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 Domes 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 extended 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 POSTS AND BACK OF SIGNS THAT ARE TO BE PAINTED BLACK SHALL USE A PRIMY SYSTEM THAT PROVIDES A MINIMUM 7 YEAR SERVICE EXPECTANCY. MAY USE:
   a) "CARBOLINE RUSTKOTE" BASE AT 1-2 MILS THICK, "CARBOLINE 893 50" MID-LAYER AT 3-5 MILS THICK, "CARBOLINE 133 HB" TOP COAT OR APPROVED EQUAL, OR
   b) ELECTROSTATIC 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 8 INCHES WIDE FLAT, BOLT TOGETHER FOR ANY ARTERIAL INTERSECTIONS AND 6 INCHES WIDE EXTRUDED ALUMINUM PANELS FOR ALL MINOR AND COLLECTOR STREETS. SIGNS SHALL BE 6 INCHES MINOR AND COLLECTOR, AND SHALL VARY IN SIZE TO 36 INCH LENGTHS, OR LONGER AS NEEDED, TO ACCOMODATE STREET NAMES.
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 PLUMB.
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 THE UTILITY COMPANIES.
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 ALONG THE LOT LINE BETWEEN THE FIRST AND 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

NOTE: ALL NON-REINFORCED CONCRETE SHALL BE 4,000 p.s.i. AT 28 DAYS.

PROJECT TITLE
MUIRFIELD MANOR
PRS No. 13033.MCHO.00R

PICKETT, RAY & SILVER INC
CIVIL ENGINEERING, LAND SURVEYING, AND NATURAL RESOURCES SERVICES
St. Peters: 22 Richmond Center Court, St. Peters, MO 63376
Branson: 110 West Adams, Suite 201, Branson, Mo 65616
Phone (636) 397-1211 Fax (636) 397-1104
www.prs3.com 1-800-708-3918

ENGINEERS AUTHENTICATION
THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING LIABILITY ON THIS PROJECT IS HEREBY LIMITED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE, AND DATE HEREUNDER ATTACHED. RESPONSIBILITY IS DISCLAIMED FOR ALL OTHER ENGINEERING PLANS INVOLVED ON THIS PROJECT AND SPECIFICALLY EXCLUDES REVISIONS AFTER THIS DATE UNLESS REAUTHENTICATED.

PICKETT, RAY & SILVER, INC. MO
LICENSE #000325

1/19/16

DOUGLAS S. TIEMANN
PROFESSIONAL ENGINEER LICENSE E-23345

Developer / Owner Information

McKELVEY HOMES
218 Chesterfield Towne Centre
Chesterfield, Missouri 63005
Phone: 636-530-6900

CITY OF O'FALLON Pavement Details

P+Z No. 28-13

City No.

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