ISSUE REMARKS/DATE

1 1-9-13 REVISED PER CITY COMMENTS
2 2-7-13 REVISED PER CITY COMMENTS
3 3-20-13 REVISED PER CITY COMMENTS
4 4-9-13 REVISED PER CITY COMMENTS

PROJECT TITLE

WEATHERBY LANDING

O'FALLON, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
5056 New Baumgartner Road
St. Louis, Missouri 63129
Ph. 314-487-0440 Fax 314-487-8944
www.sterling-engr-sur.com
Corporate Certificate of Authority #001348

The Professional Engineer's seal and signature affixed to this sheet applies only to the material and items shown on this sheet. All drawing, instruments or other documents not exhibiting this seal and signature shall not be considered prepared by this engineer, and the engineer expressly disclaims any responsibility for such drawings, instruments or documents not exhibiting this seal and signature.

STATE OF MISSOURI
RODNEY ARNOLD
NUMBER PE-2002016612
PROFESSIONAL ENGINEER

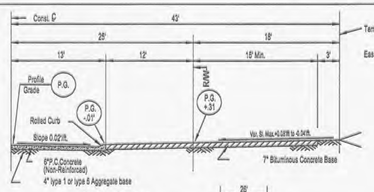
Date: 4/9/2013
RODNEY ARNOLD
License No. PE-2002016612
Civil Engineer

MCBRIDE & SON HOMES LAND DEVELOPMENT, INC.
16091 SWINGLEY RIDGE ROAD, STE. 300
CHESTERFIELD, MISSOURI 63017
Ph. 636-537-2000
www.mcbridehomes.com

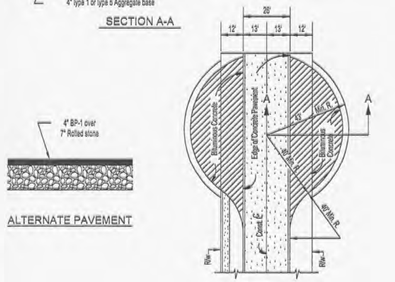
CITY OF O'FALLON PAVEMENT DETAILS

P+Z No. 1305.05
City No.
Date: 11/12/2012
Job No. 12-05-127

Page No.
CD6
IMP



SECTION A-A



ALTERNATE PAVEMENT

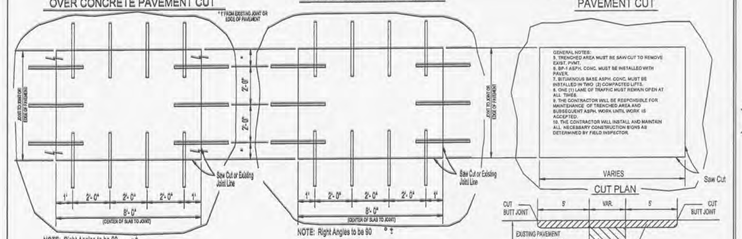
TEMPORARY TURNAROUND

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

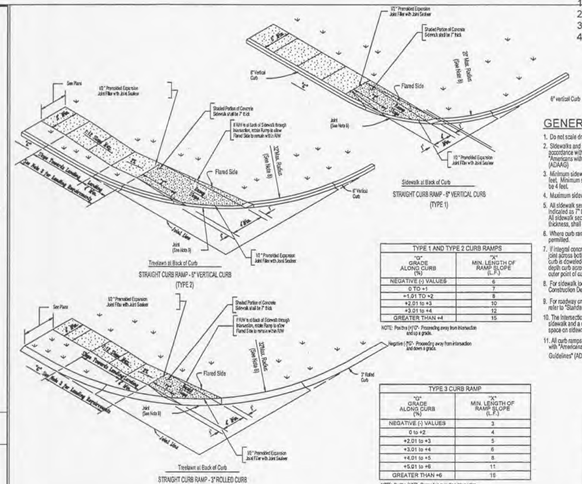


GENERAL NOTES

1. If a permit is issued to replace the existing concrete pavement with full depth bituminous concrete pavement and concrete pavement is found under the existing asphalt concrete pavement, the applicant will be required to follow the Detail for Bituminous Concrete over Concrete Pavement Cut. The applicant will use Concrete or epoxied to replace the existing pavement and use 4" Type 1 or Type 5 Aggregate over Granular Backfill or Fly-ash 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 for CONCRETE (T) BITUMINOUS (T)
All Residential Minor 6" 7 1/2"
Low Loss Streets
Residential Collector, 7" 9 1/2"
All Courts and Non-Residential Streets
Residential Streets 8" 10"
Pavement replacement will require 6" 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, twelve inches of granular backfill will be placed over exposed facilities and reinforced low strength material (CLSM) will be placed from the top of the granular to the inches of the finished surface for concrete pavement. There will be a plastic membrane placed between the rock backs 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 2" rolled curb shall be 4 feet.
4. Maximum sidewalk cross slope 0.02ft..
5. All sidewalk sections shall be 4" thick, except where indicated as 7" thick by shaded portions shown on details. All sidewalk sections and curb gutter, 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 dowled-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

GRADE ALONG CURB (%)	MIN. LENGTH OF RAMP 'B' (FT.)
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: Pavths (+)/(-) : Proceeding away from ramp/on curb or a grade.
Negative (-)/(-) : Proceeding away from intersection and down a grade.

TYPE 3 CURB RAMP

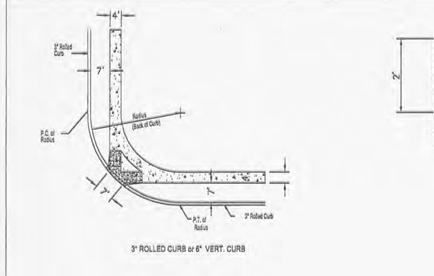
GRADE ALONG CURB (%)	MIN. LENGTH OF RAMP 'B' (FT.)
NEGATIVE (-) VALUES	3
0 to +2	4
+2.01 to +3	5
+3.01 to +4	6
+4.01 to +5	8
+5.01 to +6	11
GREATER THAN +6	16

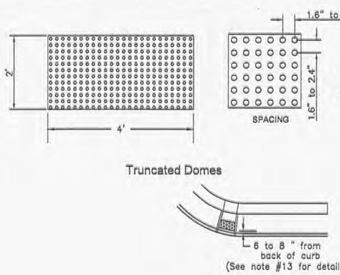
NOTE: Paths (+)/(-) : Proceeding away from intersection and down a grade.
Negative (-)/(-) : Proceeding away from intersection and down a grade.

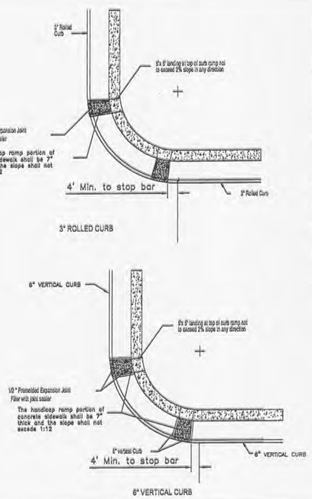
12. All ramps must line up with the corresponding ramp on the other side of the street or intersection.
13. All truncated domes shall run parallel to the road that it's crossing.
14. Truncated warning domes shall not be stamped and will be a ADA approved product.

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

CONCRETE SIDEWALK
WITHIN CUL-DE-SACS





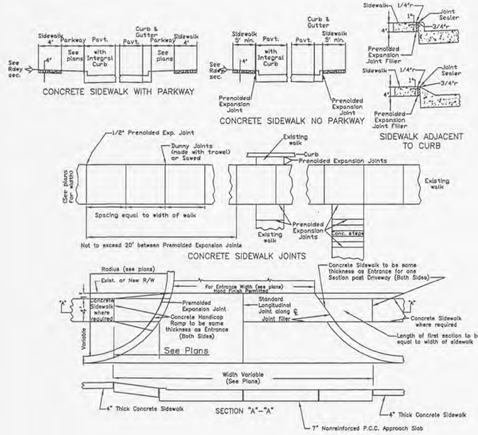


GENERAL NOTES

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 2" rolled curb shall be 4 feet.
4. Maximum sidewalk cross slope 0.02ft..
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 dowled-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

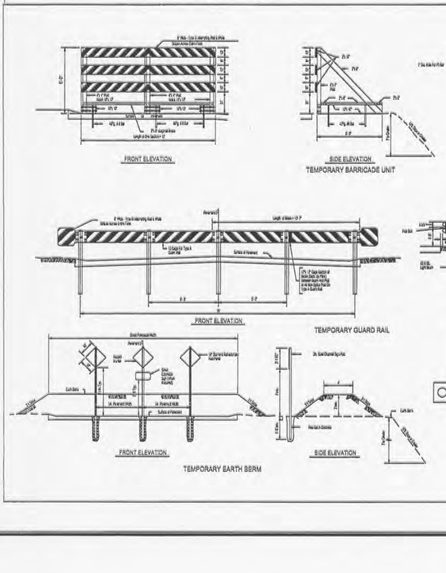


GENERAL NOTES

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" .

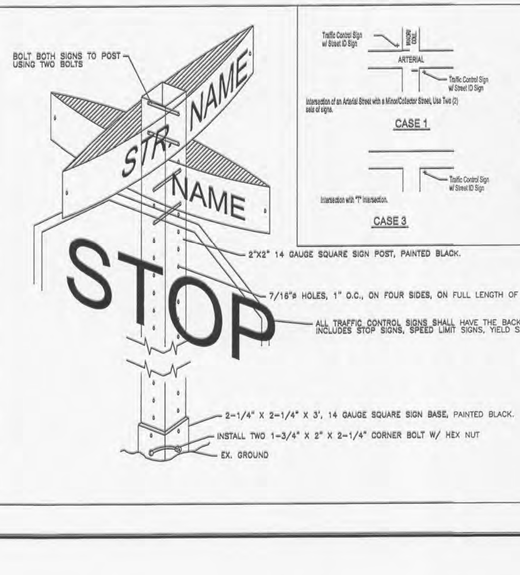
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CONCRETE SIDEWALK
THROUGH
COMMERCAL ENTRANCES



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

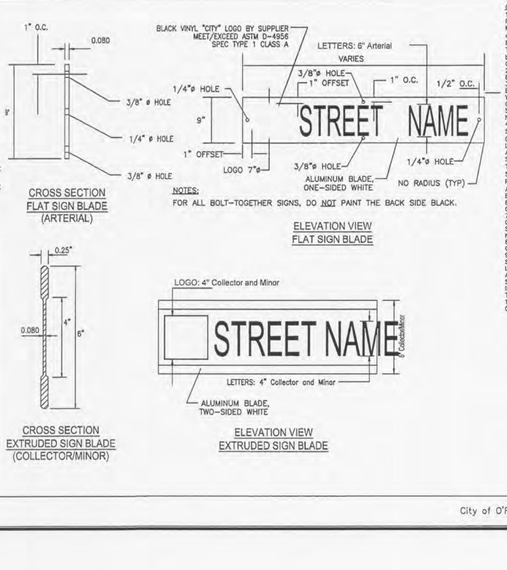
TREATMENT OF
TEMPORARY TERMINATIONS
OF ROADWAY PAVEMENT



SIGN LEGENDS SHALL BE 7 INCH 3M ENGINEER GRADE SHEETING (OR APPROVED EQUAL) WHITE REFLECTIVE WITH THE CITY OF O'FALLON LOGO WITH 6 IN. BLACK NON-REFLECTIVE LETTERS FOR ARTERIALS AND 4 IN. SIGN LEGEND FOR MINOR AND COLLECTOR ROADS WITH 4 IN. LETTERS. ALL REFLECTIVE SHEETING SHALL MEET AND OR EXCEED ASTM D 4956 SPEC. TYPE 3 OR HIGHER (HIGH INTENSITY OR DIAMOND GRADE).

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

ARTERIAL
SIGNS



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 YEAR LIFE EXPECTANCY. MAY USE:
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) 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 9 INCHES WIDE FLAT, BOLT TOGETHER FOR ANY ARTERIAL INTERSECTIONS AND 6 INCHES WIDE FOR COLLECTOR AND MINOR ROADS. ALL MINOR AND COLLECTOR ROAD SIGNAL LENGTHS FOR MINOR AND COLLECTOR SIGNS SHALL BE 24, 30 & 36 INCH LENGTHS, OR LONGER AS NEEDED, TO ACCOMODATE STREET NAMES.
4. SIGN LEGENDS SHALL BE 7 INCH 3M ENGINEER GRADE SHEETING (OR APPROVED EQUAL) WHITE REFLECTIVE WITH THE CITY OF O'FALLON LOGO WITH 6 IN. BLACK NON-REFLECTIVE LETTERS FOR ARTERIALS AND 4 IN. SIGN LEGEND FOR MINOR AND COLLECTOR ROADS WITH 4 IN. LETTERS. ALL REFLECTIVE SHEETING SHALL MEET AND OR EXCEED ASTM D 4956 SPEC. TYPE 3 OR HIGHER (HIGH INTENSITY OR DIAMOND GRADE).
5. SIGN POSTS SHALL BE HIGH 3/4" CHANNEL (2 LBS./FT.) PAINTED BLACK STEEL POSTS FOR COLLECTOR/MINOR STREETS. ARTERIAL STREETS SHALL HAVE 2" SQUARE POSTS WITH BREAKAWAY ASSEMBLY.
6. SIGN POSTS SHALL EXTEND A MINIMUM OF 30 INCHES IN THE GROUND.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN OR NOT SHOWN. PLEASE CONTACT CITY FOR LOCATION OF CITY UTILITIES NOT FOUND BY DIG-RITE SERVICES.
8. SIGNS SHALL NOT CREATE A SITE DISTANCE PROBLEM OR CONFLICT WITH PEDESTRIAN TRAFFIC.
9. SPEED LIMIT SIGNS MUST BE AT EVERY ENTRANCE TO A SUBDIVISION ALONG THE LOT LINE BETWEEN FIRST AND SECOND LOT AND APPROXIMATELY EVERY TWO THOUSAND FEET THERE AFTER. ALSO, EVERY CONNECTING SIDE STREET MUST HAVE ONE SPEED LIMIT SIGN APPROXIMATELY FIFTY FEET FROM INTERSECTION AND APPROXIMATELY EVERY TWO THOUSAND FEET THERE AFTER.
10. ALL SIGNS UNLESS OTHERWISE STATED, SHOULD BE CONSTRUCTED AND INSTALLED PER MUTCD.

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

SIGNS,
DETAILS AND LOCATIONS

Drawing name: K:\1305\07 Woodbridge Landing\dgn\improvements\1305MEP.dwg Plotted on: Apr 08, 2013 - 2:13pm Plotted by: carnold