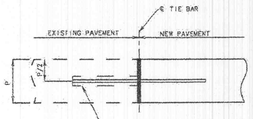


TIE BARS SHALL BE EPOXY COATED, DEFORMED REINFORCING BARS MEETING THE REQUIREMENTS OF SECS. 710 AND 1057.

BONDING FOR TIE BARS SHALL BE EPOXY OR POLYESTER BONDING AGENTS AS SPECIFIED IN SECTION 1039.

TIE BAR SIZE AND LENGTH SHALL BE BASED ON THE THICKNESS OF THE THINNER PAVEMENT OR SHOULDER TO BE TIED TOGETHER.

LONGITUDINAL CONSTRUCTION JOINT
(EXISTING PAVEMENT)

TABLE

SLAB THICKNESS (P)	DOWEL SIZE	TIE BAR SIZE	DOWEL SPACING	TIE BAR SPACING
10" OR LESS	1 1/4"X18"	#5X30"	12" CTR.-CTR.	30" CTR.-CTR.
GREATER THAN 10"	1 1/2"X18"	#6X40"	12" CTR.-CTR.	30" CTR.-CTR.

GENERAL NOTES:

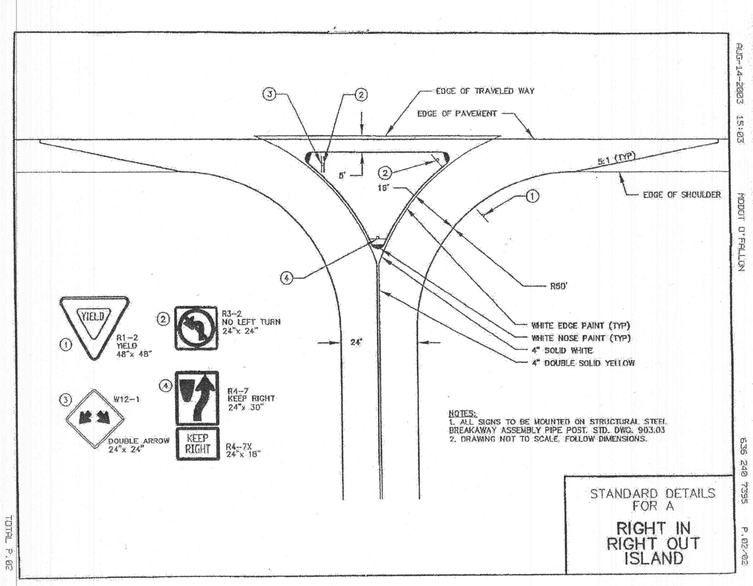
THE FINAL POSITION OF ALL DOWELS AND TIE BARS SHALL BE PERPENDICULAR TO THE PLANE OF THE JOINT AND PARALLEL TO THE SURFACE OF THE PAVEMENT AND PARALLEL TO EACH OTHER.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE OF MISSOURI — HUMBERTO E. SPEDDO — NUMBER E-19674 — PROFESSIONAL ENGINEER

CONCRETE PAVEMENT AND BASE APPURTENANCES FOR 15' JOINT SPACING

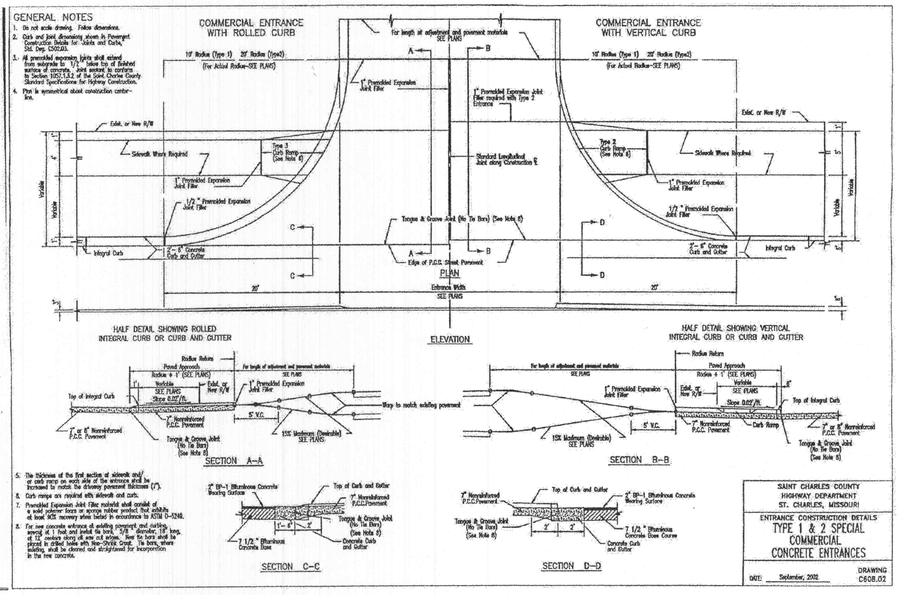
DATE 1/6/97 | REVISED: 5-1-97 | 502.05B | 2/2



NOTES:
1. ALL SIGNS TO BE MOUNTED ON STRUCTURAL STEEL BREAKAWAY ASSEMBLY PIPE POST. STD. DWG. 903.03
2. DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

STANDARD DETAILS FOR A
RIGHT IN RIGHT OUT ISLAND

GENERAL NOTES
1. Do not scale drawing. Follow dimensions.
2. Curb and joint dimensions shown in Pavement Construction Details for Joints and Curb, Std. Dwg. C502.03.
3. All premolded expansion joints shall extend from subgrade to 1/2" below top of finished pavement, and shall conform to Section 1051.13.2 of the Saint Charles County Standard Specifications for Highway Construction.
4. This is symmetrical about construction centerline.

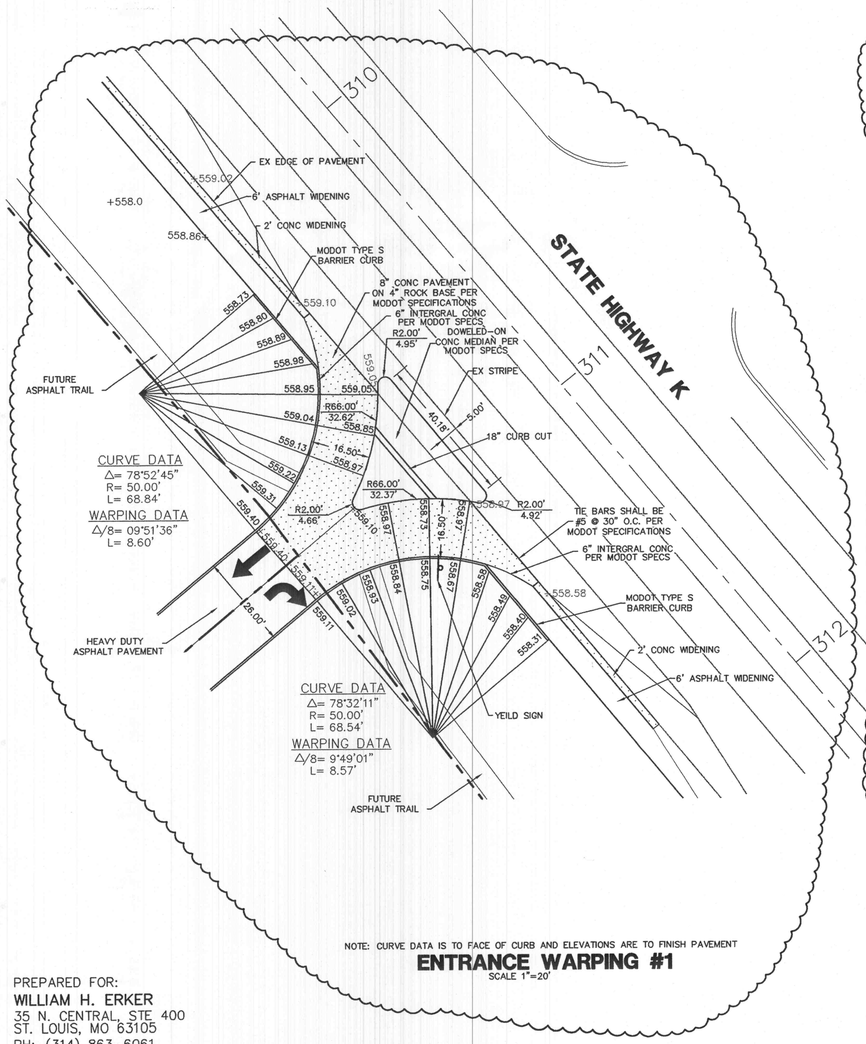


5. The thickness of the first section of sidewalk and/or curb ramps on each side of the entrance shall be increased to match the driveway pavement thickness (T).
6. Curb ramps are required with sidewalk and curb.
7. Premolded Expansion Joint Filler material shall consist of a wood cellulose fiber or synthetic rubber product that satisfies at least 42% recovery when tested in accordance to ASTM D-1752.
8. For new concrete entrances of existing pavement and curbing, remove a full depth section of pavement, 5' minimum long, at the entrance along all sides and arrows. Bar ties shall be placed in drilled holes with Non-Shrink Grout. Tie bars, where existing, shall be cleaned and straightened for incorporation in the new concrete.

SAINT CHARLES COUNTY HIGHWAY DEPARTMENT
ST. CHARLES, MISSOURI

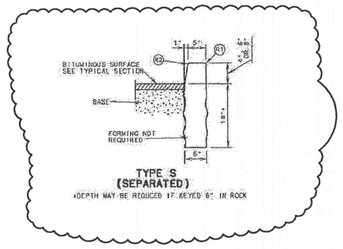
ENTRANCE CONSTRUCTION DETAILS
TYPE 1 & 2 SPECIAL COMMERCIAL CONCRETE ENTRANCES

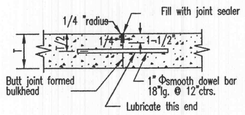
DATE: September, 2002 | DRAWING C608.02



NOTE: CURVE DATA IS TO FACE OF CURB AND ELEVATIONS ARE TO FINISH PAVEMENT

ENTRANCE WARPING #1
SCALE 1"=20'





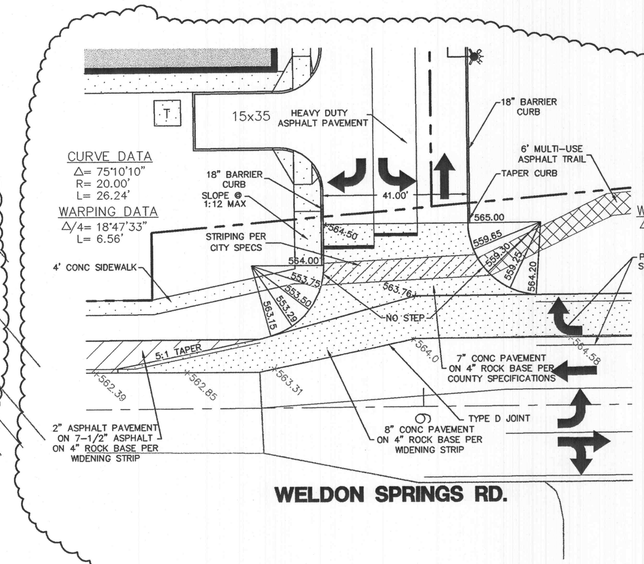
TYPE D
TRANSVERSE CONSTRUCTION JOINT

GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Construction joint and tie bars may be omitted when curb is poured integral with pavement.
3. Minimum Thickness for Pavement is:

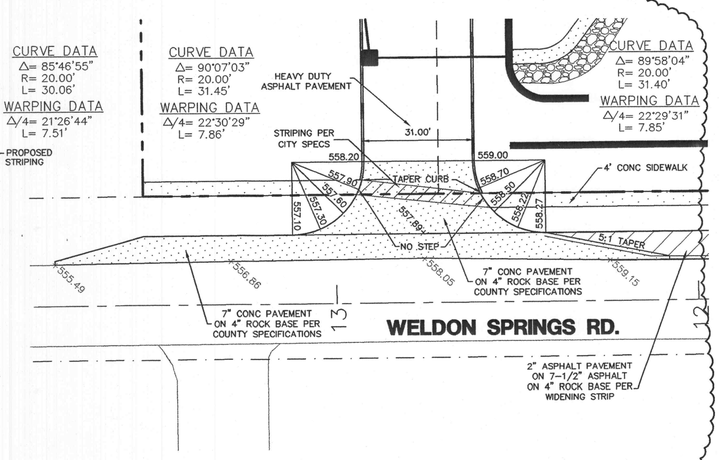
Bituminous Concrete Pavement Thickness =	(T)
Concrete Pavement Thickness =	(T)
All Residential Minor and Local Streets	6" 7-1/2"
Residential Collector and Non-Residential Streets	7" 9-1/2"
All Arterial Streets	8" 12"

4. Type "C" Transverse Joint is required for Arterial and Non-Residential streets. Use Type "C" Transverse Joint for all others.
5. For Subdivision or Minor Streets having 6" concrete pavement 1/2 Φ deformed tie bars 30" long at 30" centers shall be used for Type "B" Longitudinal Joints.
6. Refer to Pavement Construction Details for "Integral Vertical Curb and Concrete Pavement Typical Sections and Details," Std. Dwg. C502.01 and "Integral Rolled Curb and Concrete Pavement Typical Sections and Details, Std. Dwg. C502.02 for joint and bar requirements for different street classifications. Note that width and location of each poured portion of the pavement may change the type and location of joint required.
7. All deformed bars for joints and curbs shall be Billet Steel Bars conforming to A.S.T.M.615-75, Grade 40.
8. Length of the tie bars shall equal the thickness of pavement plus the height of curb less 3". Tie bars shall be placed at 24" centers.
9. Transverse or longitudinal construction joints in slip formed pavements may be made with a groover or tool, if such device has been approved in advance by the Department.
10. The free end of the dowel bar for a length of at least 11 inches shall be coated with an approved graphite grease.
11. All dowel bars 18"lg. @ 12"ctrs. shall be epoxy coated.



NOTE: CURVE DATA IS TO FACE OF CURB AND ELEVATIONS ARE TO FINISH PAVEMENT

ENTRANCE WARPING #2
SCALE 1"=20'



NOTE: CURVE DATA IS TO FACE OF CURB AND ELEVATIONS ARE TO FINISH PAVEMENT

ENTRANCE WARPING #3
SCALE 1"=20'

PREPARED FOR:
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35 N. CENTRAL, STE 400
ST. LOUIS, MO 63105
PH: (314) 863-6061
FAX: (314) 863-6146

P&Z FILE # 0704/0704.01

STATE OF MISSOURI — LEONARD J. MEERS — NUMBER E-28289 — REGISTERED PROFESSIONAL ENGINEER

GENERAL CONTRACTOR	ARCO CONSTRUCTION CO., INC.
ARCHITECT	THOMAS ROOF INC. ARCHITECTS
STRUCTURAL ENGINEER	IBRAHIM ENGINEERING CORP.
GEOTECHNICAL ENGINEER	GEOTECHNOLOGY
CIVIL ENGINEER	J.R. GRIMES CONSULTING ENGINEERS
MECHANICAL ENGINEER	JARRELL MECHANICAL CONTRACTORS
PLUMBING ENGINEER	SYSTEM AIRE, INC.
ELECTRICAL ENGINEER	PAYNE CREST ELECTRIC
FIRE PROTECTION	BI-STATE FIRE PROTECTION

ARCO Construction Company, Inc.

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314-726-9990 fax-726-9991 www.trifarchitects.com

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DATE: 02/13/04

REVISIONS
PER CITY, DUCKETT CREEK & MODOT COMMENTS 04/06/04

DWG. BY JLW
PROJECT NO. 1004B
SHEET NO.

C7.2
SITE DETAILS

J:\1004\1004B\PLANS\C7.2-PAVE-DETAILS.dwg Tue Apr 06 08:04:05 2004 JTM-W