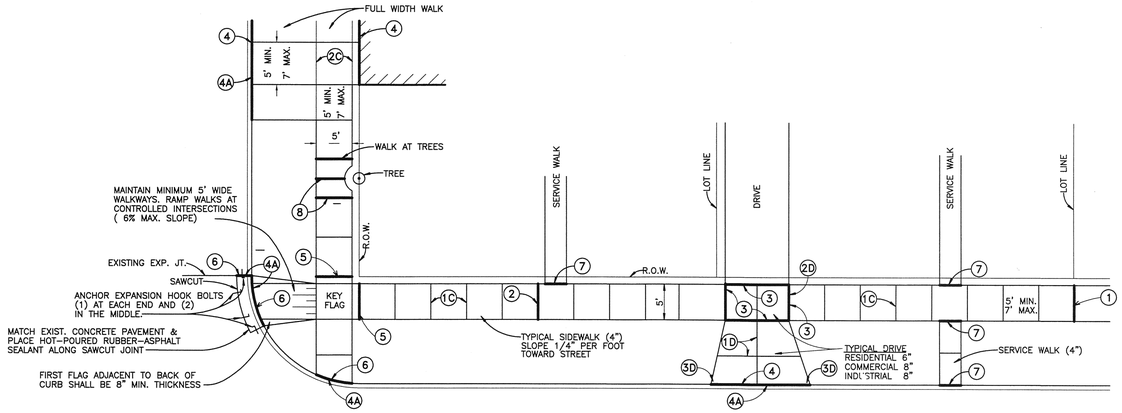


* EXPANSION JOINTS

1. PLACE 1/2" FIBER EXP. JOINT FILLERS AT LOT LINES WHEN LOTS ARE 50' OR LESS.
2. ADDITIONAL 1/2" FIBER EXP. JOINT FILLERS FOR LOTS GREATER THAN 50', NOT TO EXCEED 50' INTERVALS.
3. PLACE 1/2" FIBER EXP. JOINT FILLERS EACH SIDE OF DRIVE.
4. PLACE 1" FIBER EXP. JOINT FILLERS AT CURB AND BUILDING OR R.O.W. LINE.
4A. AT CURB LINE, EXPANSION JOINTS SHALL BE SEALED WITH HOT-POURED RUBBER-ASPHALT SEALANT.
5. PLACE 1/2" FIBER EXP. JOINT FILLERS AT KEY FLAG OF CROSS-WALKS.
6. PLACE 1" FIBER EXP. JOINT FILLERS AT INTERSECTIONS OF CURB RADIUS AND IN LINE WITH EXISTING JOINTS.
7. PLACE 1/2" FIBER EXP. JOINT FILLER AT INTERSECTION OF SERVICE WALK & CURB ALSO AT SERVICE WALK & WALK.
8. PLACE 1/2" FIBER EXP. JOINT FILLERS AT EITHER SIDE OF SIDEWALK ABUTTING TREE AND AT CENTERLINE JOINT. ROOT BARRIERS MAY BE REQUIRED.

CONTRACTION JOINTS

1C. PLACE CONTRACTION JOINTS AT INTERVALS NOT LESS THAN 5' OR GREATER THAN 7', FULL WIDTH OF WALK. JOINT DEPTH SHALL BE 1/4" THICKNESS OF CONCRETE.

2C. PLACE CONTRACTION JOINTS AT WALK LINES FOR FULL WIDTH SIDEWALK.

DRIVEWAYS

1D. PLACE CONTRACTION JOINTS SO THAT NO SECTION OF THE CONCRETE DRIVEWAY EXCEEDS A DIMENSION OF 10'x10'.

2D. PLACE 1" FIBER EXPANSION FILLER AT ALL SIDES OF A COMMERCIAL DRIVE.

3D. WIDTH OF APPROACH AT STREET SHOULD BE MIN. 3' WIDER THAN WIDTH AT SIDEWALK, EACH SIDE.

* FIBER EXPANSION JOINT FILLERS SHALL BE FULL DEPTH.

NOTES

1. CONCRETE WORK NOT CONSTRUCTED UNDER THE TOWNSHIP'S CONTRACTOR MUST BE DONE UNDER A PERMIT, SECURED THROUGH THE CHARTER TOWNSHIP OF CHESTERFIELD DEPARTMENT OF PUBLIC WORKS.
2. NO CONCRETE SHALL BE PLACED UNTIL A PRE-CHECK HAS BEEN REQUESTED BY THE CONTRACTOR OR HOME-OWNER AND APPROVED BY THE CHARTER TOWNSHIP OF CHESTERFIELD D.P.W. (949-0400 EXT. 3) - AT LEAST (48) HOURS IN ADVANCE, FINAL INSPECTION IS ALSO REQUIRED AT THE PLACEMENT OF CONCRETE.
3. ALL WORK SHALL CONFORM TO THE CHARTER TOWNSHIP OF CHESTERFIELD STANDARDS & SPECIFICATIONS AVAILABLE THROUGH THE TOWNSHIP ENGINEER.
4. HANDICAP RAMPS SHALL MEET A.D.A. BARRIER FREE REQUIREMENTS.
5. TRUNCATED DOME DETECTABLE WARNING PLATES SHALL BE CAST IRON - BLACK IN COLOR

TYPICAL SIDEWALK & DRIVE APPROACH JOINTING STANDARDS

NO SCALE

REQUIREMENTS AND CONDITIONS FOR CONCRETE PAVEMENT

1. NO CONCRETE PAVING SHALL BE ALLOWED PRIOR TO MAY FIRST OR AFTER NOVEMBER FIRST. (UNLESS APPROVED BY THE DPW SUPERINTENDENT)
2. AIR TEMPERATURE AT POINT OF PLACEMENT, AWAY FROM ARTIFICIAL HEAT, SHALL BE AT LEAST 30° F AND RISING.
3. TEMPERATURE OF CONCRETE AT TIME OF PLACEMENT SHALL BE BETWEEN 45° F AND 90° F.
4. CONCRETE SHALL HAVE A SLUMP BETWEEN 2"-3".
5. CONCRETE SHALL HAVE AN AIR CONTENT OF 6% ±1%.
6. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI (MIN.)
7. MAXIMUM TIME INTERVAL BETWEEN CHARGING OF MIXER AND PLACING OF CONCRETE, MINUTES:

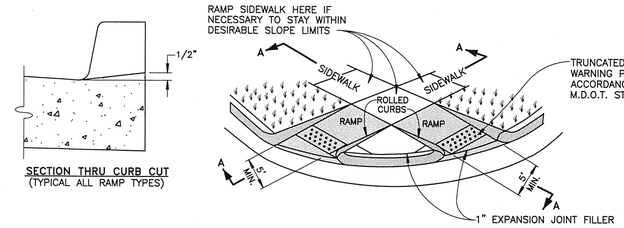
TYPE OF UNIT	TEMPERATURE OF CONCRETE		
	BELOW 60° F	60° F TO 85° F	ABOVE 85° F
CLOSED TOP AGITATING UNITS & TRUCK MIXERS (A)	90	60	45
TRUCK MIXERS AND CLOSED TOP AGITATING UNITS WITH CONCRETE CONTAINING WATER-REDUCING RETARDING ADMIXTURE	120	90	70

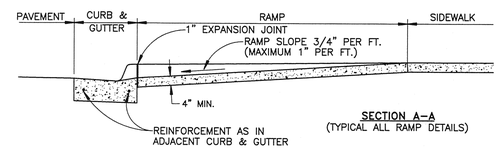
(A) SUPERSTRUCTURE CONCRETE SHALL MEET THE TIME LIMITS FOR CLOSED TOP AGITATING UNITS AND TRUCK MIXERS.

8. SPECIAL CONDITIONS SHALL REQUIRE REVIEW AND APPROVAL THE TOWNSHIP ENGINEER.

GENERAL NOTES

1. PRIOR TO PLACEMENT OF BASE MATERIAL OR PAVEMENTS THE CONTRACTOR SHALL PROOFROLL THE SUBGRADE AND REMOVE ANY UNSUITABLE MATERIAL OBSERVED.
2. ALL BASE MATERIAL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM UNIT WEIGHT.
3. FOR RESIDENTIAL USES, THE OWNER SHALL RETAIN THE SERVICES OF A GEOTECHNICAL CONSULTING/TESTING FIRM, ALL FILL MATERIAL AND BASE MATERIAL SHALL BE TESTED AND ITS COMPACTION AND SUITABILITY FOR ACCEPTANCE OF THE BASE MATERIAL AND PAVEMENT SHALL BE CERTIFIED BY SAID TESTING FIRM. THE OWNER SHALL SUPPLY THREE COPIES OF THE GEOTECHNICAL REPORT AND CERTIFICATION TO THE TOWNSHIP DEPARTMENT OF PUBLIC WORKS.
4. IF IN THE OPINION OF THE INSPECTOR/ENGINEER, FIELD CONDITIONS WARRANT ADDITIONAL TESTING, THE DEVELOPER SHALL ARRANGE FOR AND PAY FOR ALL REQUIRED TESTING.

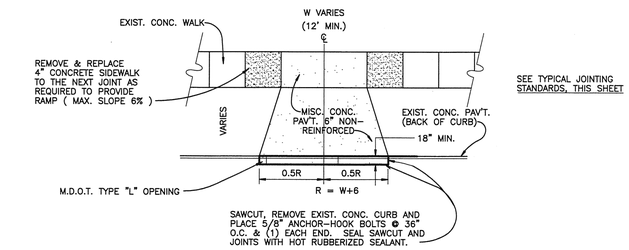




TYPICAL RAMP INSTALLATION

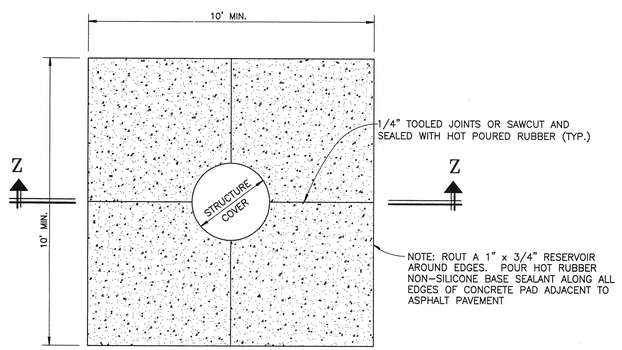
NOT TO SCALE

(M.D.O.T. TYPE 4)

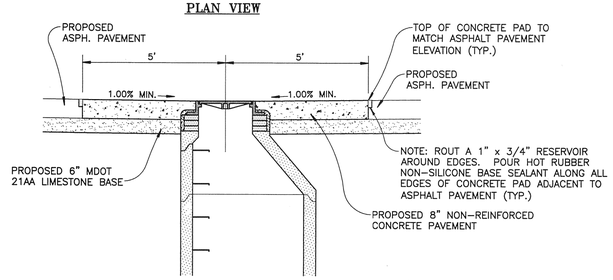


NEW RESIDENTIAL DRIVEWAY LAYOUT FOR EXISTING PAVEMENT CONDITION

NO SCALE



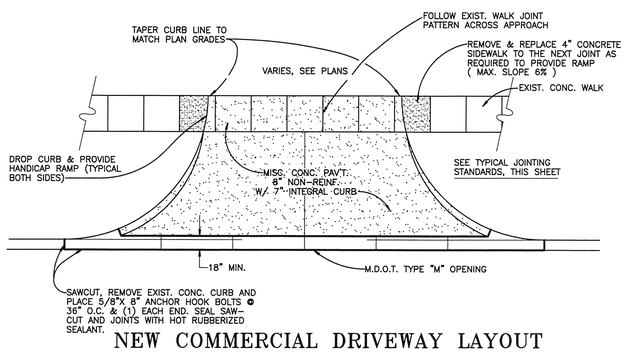
PLAN VIEW



SECTION Z-Z

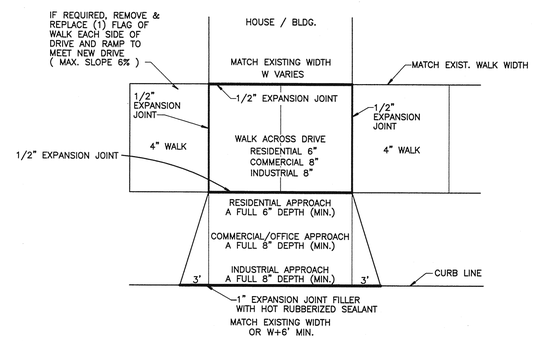
CONCRETE PAD DETAIL AT STRUCTURE IN ASPHALT PAVEMENT

NOT TO SCALE



NEW COMMERCIAL DRIVEWAY LAYOUT FOR EXISTING PAVEMENT CONDITION

NO SCALE



REMOVAL AND REPLACEMENT OF EXISTING DRIVE APPROACH FOR EXISTING OR NEW PAVEMENT CONDITION

NO SCALE

Civil Engineers Surveyors Architects Engineering Survey Consultants

ANDERSON, ECKSTEIN AND WESTRICK, INC.

51301 Schoenherr Road
CHESTERFIELD Township
Michigan 48315

Phone 586 726 1234
Fax 586 726 8780

www.aewinc.com

WELCOME TO Chesterfield GATEWAY TO ANCHOR BAY 1842

DATE	SUBMITTALS/REVISIONS	
DRAWN BY: MJS	CHECKED BY: AAP	DATE: SEPTEMBER 2010

G:\COMMUNITY\CHSTRFLD\STD_DETS\NEW DETAILS-PRELIMINARY\PAVING_2.DWG
Model--9/1/2010 10:41:39 AM

STATE OF MICHIGAN GORDON B. WILSON ENGINEER No. 34055 LICENSED PROFESSIONAL ENGINEER

GORDON B. WILSON P.E. NO. 34055

DEPARTMENT OF PUBLIC WORKS

APPROVED BY: JOSEPH J. GAVESKI, DIRECTOR

DATE: 9/2/2010

CHARTER TOWNSHIP OF CHESTERFIELD

STANDARD PAVING DETAILS (2 OF 2)

SHEET NO.

PAV2

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