



DEARBORN CITY COUNCIL MINUTES

SPECIAL MEETING

September 17, 2019

The Council convened at 8:03 P.M., President of the Council Susan Dabaja presiding. Present at roll call were Councilmembers Abraham, Bazy, Byrnes, Herrick, Sareini and President of the Council Dabaja. Absent: Councilmember O'Donnell. A quorum being present, the Council was declared in session.

DATE : September 13, 2019
TO : City Clerk
FROM : City Council
SUBJECT : Special Council Meeting

You are hereby requested to call a Special Meeting of the City Council to be held on Tuesday, September 17, 2019 at 7:25 P.M. in the Conference Room 1D of the Dearborn Administrative Center for the following purposes:

1. To consider and take action on the City Engineer's request for noise ordinance waiver for the City of Dearborn Capital Improvement Projects—Saw Cutting of Fresh Concrete Surface, and
2. To consider such other items of business that may properly come before the Council in relation to the above subject matters.

S/Brian C. O'Donnell
Councilmember

S/David Bazy
Councilmember

Councilmember O'Donnell phoned in at 8:11 P.M.

By Sareini supported by Bazzy.

9-431-19. WHEREAS: For over fifteen years, the City of Dearborn has been executing the federally mandated Combined Sewer Overflow-Sewer Separation Project in various phases which has required removing and replacing the entire width of streets, curb to curb. The pavement surface has been replaced with 8 inch deep concrete, and

WHEREAS: The setting of concrete involves a complex chemical reaction called "Hydration." This chemical reaction generates internal stresses. These stresses cause concrete to crack. An Engineer's greatest challenge with new concrete roads is to make sure these cracks are controlled and that they occur at designated locations commonly known as transverse, longitudinal, and expansion joints. Without these joints, the concrete would crack indiscriminately based on the relative stresses during the curing process, and

WHEREAS: What is the "Sawing Window" time frame for a new concrete surface? - Two strengths are associated with the early stage of a concrete pour: concrete strength and the internal stress of concrete. In order to prevent the raveling of concrete during saw cutting, contractors have to wait 6 to 9 hours after concrete is poured to begin saw cutting. This time period is dependent on the outdoor temperature. In order to prevent uncontrolled and random cracking of concrete, all saw cutting of concrete must be completed as long as the internal stress generated by concrete is less than the concrete strength. Any delay in saw cutting beyond this point will cause concrete to crack randomly. The allowable beginning and ending time period of saw cutting of concrete roads in the concrete industry is defined as the "Sawing Window" which is dependent on many factors; the most important one is the temperature. The duration of the Sawing Window is short in summer months and quite long in spring/fall months because higher temperatures cause concrete to cure faster. See the attached graph prepared by the American Concrete Pavement Association (ACPA) and published by the Federal Highway Administration (FHWA), and

WHEREAS: Better roads are one of our biggest investments and therefore we want to make sure that our new concrete roads have as much longevity as possible. Uncontrolled and random cracks not only affect the longevity of roads but they are aesthetically unpleasant, and

WHEREAS: In order to provide longevity to new concrete roads and make them appealing to our residents, for over 15 years we have been saw cutting new concrete surfaces within the allowable time frame of the "Sawing Window" which at times requires our contractors to run saw cutting machines past midnight. Prior to this taking place we notify the affected residents, and

WHEREAS: Ten hours a day of concrete paving is a standard paving operation for cold weather states which have only six months of construction time to economically pour concrete. Limiting the saw cutting operation to the allowable time limits in the City's Noise Ordinance would dramatically reduce this time precluding concrete paving of roads past early afternoon to allow the initial 6 to 9 hour curing period to elapse prior to saw cutting. This will have a significant impact on cost, schedule, inconveniences to the residents including extended times where they won't be able to access their driveways and garages, and delays in the opening of roads for traffic, and

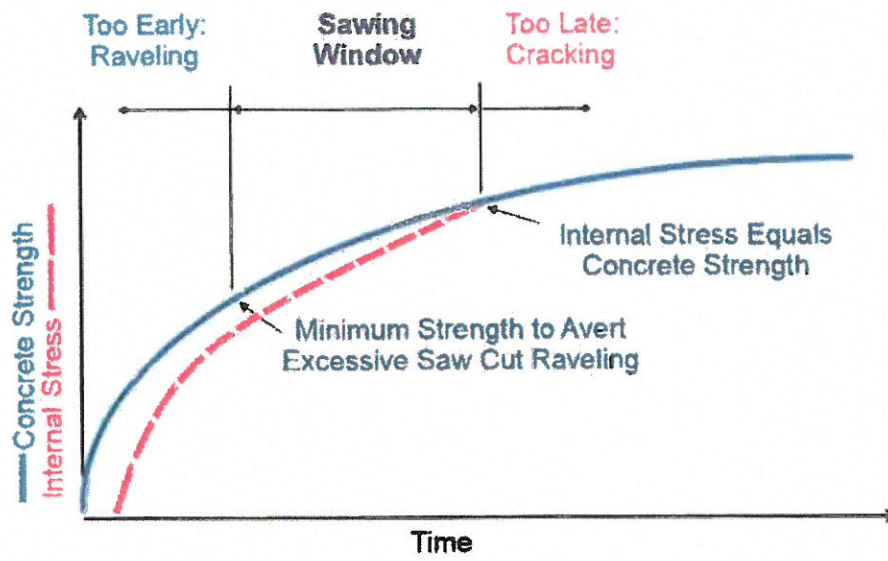
WHEREAS: The time between a total concrete surface replacement for the full length of a specific concrete street curb to curb is approximately 70 to 80 years meaning a late night saw cutting operation would occur once every 70 to 80 years in a specific area, and

WHEREAS: The Engineering Department hereby requests that the City Council waive the Noise Ordinance requirements and allow saw cutting on new concrete surfaces during night hours for all of our current and future construction projects which will be executed over the next five years; therefore be it

RESOLVED: That the City Engineer's request to waive the Noise Ordinance requirements and allow saw cutting on new concrete surfaces during night hours for all of our current and future construction projects which will be executed over the next five years be and is hereby approved; be it further

RESOLVED: that this resolution be given immediate effect.

The resolution was unanimously adopted.



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There being no further business, upon a motion duly made, seconded and adopted, the Council then adjourned at 8:16 P.M.

APPROVED:

President of the Council

ATTESTED:

City Clerk