



City of Elmira, New York

EXCAVATION *SPECIFICATIONS AND STANDARDS*

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Effective Date: April 1992
Revised Date: February 2007

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TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
I	General	1
II	Excavation	3
III*	Laying of Pipe	4
	A) PVC Pipe	
	B) Metal and Concrete Pipe	
	C) Special Conditions	
IV	Backfilling	8
V	Pavement Repairs	10
VI	Safety Requirements	14
VII	Insurance Requirements	15
VIII	Patch Repair if Failure Occurs	16
IX	List of Abbreviations	18
X	Bibliography	19
	CITY OF ELMIRA ORDINANCE (02-05-07)	

***THIS SECTION APPLIES TO SEWER EXCAVATIONS ONLY.**

SECTION I – GENERAL

The City of Elmira requires that an excavation permit be obtained from the Department of Public Works before any work can commence. It is expected that the permittee will have contacted all other governmental agencies and approval will have to be granted by all such parties. The permittee must comply with the specifications, procedures, and provisions of Sections I through VIII, inclusive.

Excavation, Defined: Excavation shall consist of the cutting, digging, removal and disposal of all material of any description encountered in the course of construction.

All excavations within the City of Elmira Right-of-Way (R.O.W.) shall require 48 hour notice prior to the commencement of any digging excepting emergencies. Emergency excavations are defined as when less than 48 hour notification is given to the City of Elmira.

Under emergency conditions, the permittee can commence digging before obtaining any necessary permits and/or permission. However, the permittee will notify the City of Elmira of said emergency and scope of work no later than 9:00 a.m. on the next business day.

It will be the responsibility of the permittee to notify **Dig Safely NY** (U.F.P.O.) members and non-members before actual work shall begin. This shall be no less than forty-eight (48) hours prior notice. Under emergency conditions, this will be waived. However, at all times the permittee is responsible for all damage done to any underground facilities. The contractor must be in compliance with Part 753 of the New York Codes, Rules and Regulations (formerly Industrial Code Rule Part 53)

In the event of finding any archaeologically important materials, refer to NYS DOT Standard Specifications section on “Excavation.” These special cases will be determined by the City of Elmira Engineer or his representative.

The permittee shall be responsible for the quality of all work done.

All damaged sidewalk, curb or roadway shall be replaced with new materials at the permittee’s own expense and in accordance with any specifications or requirements set forth by the City of Elmira. This will be determined by the City of Elmira Engineer or his representative. The permittee will not be allowed to reset sidewalk flags.

Any other damage done in the City of Elmira R.O.W. (such as to trees, signs, etc.) shall be replaced at permittee’s own expense excepting those items as ordered by City of Elmira Engineer or his representative.

It will be the responsibility of the permittee to replace any survey markers disturbed during construction. This work must be performed by a licensed surveyor.

(1)

SECTION I – GENERAL (Continued)

All work must be inspected and approved by the City of Elmira Engineer or his representative.

Winter excavation is defined as any work done during the period of time when it is no longer possible to obtain hot asphalt concrete locally. This usually consists of the period from mid-November to mid-April.

In the event of a multi-use excavation (common ditch), the holder of the most recently issued permit will be responsible for final pavement repair. If two or more permits are issued on the same day, the City of Elmira Engineer, or his representative, will determine responsibility for final pavement repairs.

The permittee is responsible for his excavation and shall **guarantee the replaced pavement against settlement or failure for a period of five (5) years.**

Note: Specifications and standards not addressed in this document must meet the current **NYSDOT Standards and Specifications for construction and materials.**

THE FOLLOWING SPECIAL CONDITIONS APPLY TO SEWER EXCAVATIONS ONLY:

In addition to the above definition for excavation, a sewer excavation shall also consist of the laying or replacement of sewer lines or laterals, and connecting these into any sewer main under the jurisdiction of the City of Elmira.

All connections to commercial buildings require the Chemung County Sewer District and City of Elmira Engineer to be furnished a satisfactory design drawing of the proposed installation before a permit will be issued.

No pipe will be laid, nor repairs made, without the services of a licensed plumber, as recognized by the City of Elmira.

SECTION II – EXCAVATION

The permittee is responsible for the disposal of all unsuitable material, if determined unsuitable by the City of Elmira Engineer or his representative. All excess suitable material shall be removed and becomes the property of the permittee and shall be removed by him.

Suitable material is defined as meeting the requirements as set forth in NYSDOT Standard Specifications, Section on “Excavation.”

Unsuitable material is defined as those items not meeting the above definition for suitable materials; e.g. any organic material such as sod, roots, muck, peat and topsoil. Also, such things as blacktop chunks, stones or rocks larger than four (4”) inches in their greatest dimension, chunks of concrete, paper, old pipes, frozen material, are unsuitable.

The excavation shall be drained when necessary and kept free from water, snow, and ice during construction.

All undermining encountered during the excavation process will be cut back to the furthest area of undisturbed soil. This new area will now constitute one edge of the excavation and permanent pavement repair will start twelve (12”) inches from this point. **(See attached standard sketches on Page 13)**

Bore and Jack operations will be allowed. However, tunneling will not be permitted.

Note: The responsibility of the City of Elmira for any work done on private property is limited to the inspection of pipe.

SECTION III – LAYING OF PIPE*

All pipe shall be laid in accordance with attached standards.

Types of pipe and grade must meet the requirements as set forth by the City of Elmira Inspection Services office, which enforces City Codes and Ordinances.

All pipe that is placed or laid shall be bedded throughout its entire length. Bedding stone shall line a ditch before any pipe is laid. At no time will bedding stone be allowed to drop onto a pipe from a distance of greater than 3 feet.

If a new line requires the construction of a manhole over the main sewer line, then plans and specifications for said manhole must be forwarded to the City Engineer's office for approval. The City of Elmira reserves the right to inspect the manhole upon completion. Responsibility for the repair and/or replacement of a defective manhole rests solely with the permittee.

Change in direction of building drain: Clean-outs shall be installed at changes in direction of the building drain greater than 45 degrees.**

Horizontal drainage piping: Horizontal drainage piping shall be provided with clean-outs spaced not more than 50 feet apart for piping 4 inches or less in diameter, and not more than 100 feet apart for larger piping, except that for underground piping over 10 inches in diameter, approved manholes with covers shall be installed at each 90-degree change in direction and at maximum intervals of 150 feet.**

Maximum slope shall be such that average flow does not exceed 15 fps (feet per second).

Before backfilling can commence, materials and connections must be inspected and approved by the City of Elmira Engineer or his representative.

***THIS SECTION APPLIES TO SEWER EXCAVATIONS ONLY.**

****NYS PLUMBING CODE AS ADOPTED BY THE CITY OF ELMIRA.**

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 ENGINEERING DEPARTMENT
 DEPT. OF PUBLIC SERVICES BLDG.
 LINDEN PLACE EXTENSION
 EL MIRA, NEW YORK 14901
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 SHEET NO. 1 OF 3
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 DRAWN BY R.G.L. DATE 1-1-91
 CHECKED BY _____
 SCALE N.T.S.

SEWER BACKFILL STANDARD
 (FOR PVC PIPE)

(ASPHALTIC CONCRETE)
 ALL EDGES SHALL BE TACK COATED
 & ALL JOINTS SEALED

PAVING FABRIC
 RECOMMENDED HERE
 REQUIRED HERE

12" TOP* VARIES
 12" BINDER* VARIES

SUBBASE MATERIAL *

BACKFILL MATERIAL **

1A STONE*
 (PEA GRAVEL)

MATCH TO
 EXISTING
 DEPTH
 PORTLAND
 CEMENT*

12-18"

VARIES

12"

O.D.

6"

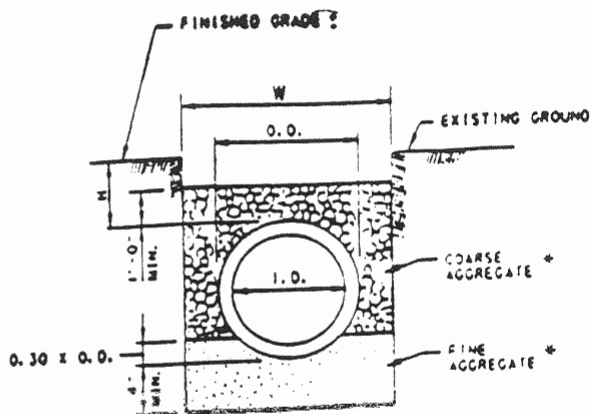
VARIES



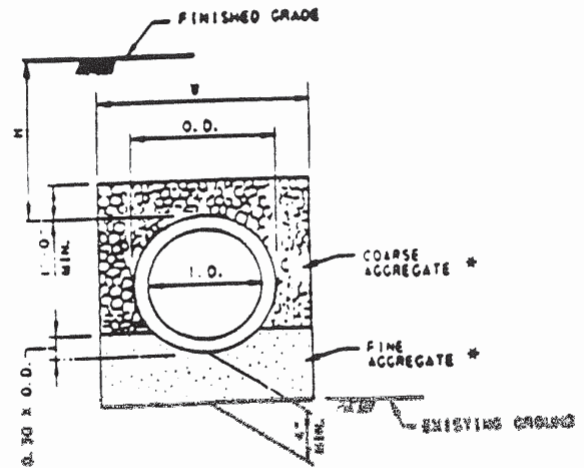
* NOTE: ALL MATERIAL SHALL CONFORM TO NYS DOT STANDARD SPECIFICATIONS
 ** NATIVE MATERIAL TO BE USED UNLESS IT IS FOUND UNSUITABLE BY THE
 CITY OF EL MIRA, NY, ENGINEER OR HIS REPRESENTATIVE

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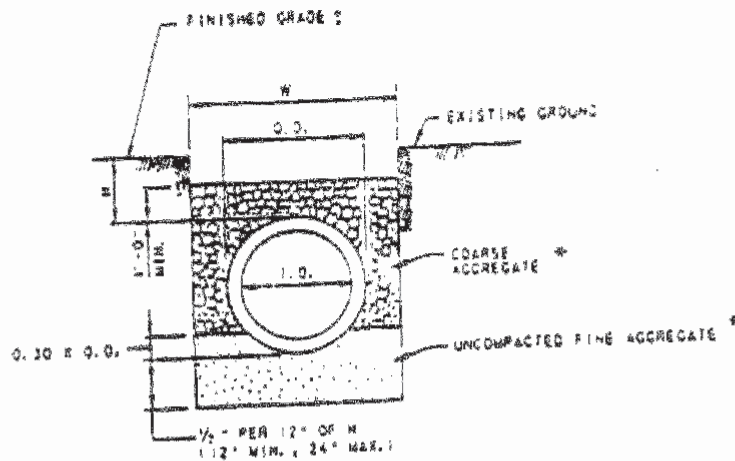
TRENCH INSTALLATION



I.D. < 72" SEE (A)
I.D. > 72" SEE (B)

EMBANKMENT INSTALLATION

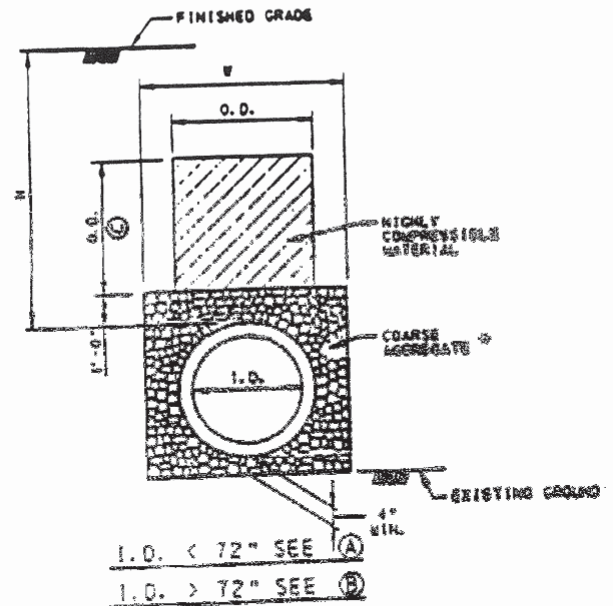
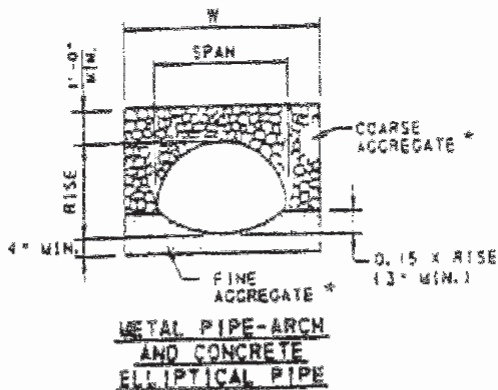
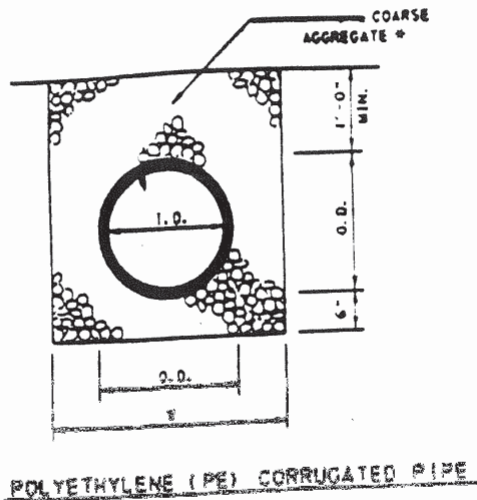
- (A) CONSTRUCT EMBANKMENT TO HEIGHT OF 1 FOOT ABOVE TOP OF PIPE. EXCAVATE APPROPRIATE TRENCH WIDTH. PLACE PIPE AND COMPACTED BACKFILL. CONTINUE EMBANKMENT.
(B) CONSTRUCT BEDDING, PLACE PIPE AND BACKFILL WITH EMBANKMENT.



TRENCH THRU ROCK
OR HARD SHALE

* - Must conform to N.Y.S.D.O.T. Standard Specifications section on "Aggregates."

BEDDING DETAILS-CIRCULAR CONCRETE AND METAL PIPES
(for roadway repair see EXCAVATION BACKFILL STANDARD)



INDUCED TRENCH (CIRCULAR CONCRETE PIPE)

- (A) CONSTRUCT EMBANKMENT TO HEIGHT OF 1 FOOT ABOVE TOP OF PIPE. EXCAVATE APPROPRIATE WIDTH. PLACE PIPE AND COMPACTED BACKFILL. CONTINUE EMBANKMENT.
- (B) CONSTRUCT BEDDING. PLACE PIPE AND BACKFILL WITH EMBANKMENT.
- (C) CONSTRUCT EMBANKMENT TO HEIGHT OF O.D. PLUS 1 FOOT ABOVE TOP OF PIPE. EXCAVATE A T THE WIDTH AND DEPTH OF O.D. DIRECTLY ABOVE THE PIPE. BACKFILL TRENCH WITH HIGHLY COMPRESSIBLE MATERIAL. CONTINUE EMBANKMENT.

* - Must conform to N.Y.S.D.O.T. Standard Specifications section on "Aggregates."

BEDDING DETAILS-SPECIAL CONDITIONS

(for roadway repair see EXCAVATION BACKFILL STANDARD)

SECTION IV – BACKFILLING

Backfilling shall commence as soon as possible upon completion of construction or repair. At no time will more than five (5') feet of lateral ditch be left open overnight. This will be allowed only when construction or repair cannot be finished that day. If an open ditch is deemed necessary, the permittee will secure the area with safety devices to protect traffic and pedestrians in accordance with O.S.H.A. and M.U.T.C.D. regulations and guidelines.

The backfilling of any pipe or structure shall not begin until the pipe or structure has been inspected and approved by the City of Elmira Engineer or his representative. **(This applies to Sewer Excavations Only)**

Backfill material shall be approved by the City of Elmira Engineer or his representative and shall be free from extraneous materials (e.g. roots, sod, old pavement) and shall contain no stones exceeding four (4") inches in their greatest dimension. **No frozen material will be permitted**

Backfill materials shall be deposited in horizontal layers not to exceed six (6") loose measure. Each layer shall be thoroughly compacted with a mechanical tamper of a type approved by the City of Elmira Engineer or his representative, and to a density either equal to the adjacent original material or to a minimum 95 per cent of standard proctor maximum density. If material is too wet to obtain compaction, it shall be removed and replaced with suitable material. This operation shall continue from the bottom of the excavation to the sub-grade of the pavement.

Special care shall be exercised in placing and compacting material immediately adjacent to pipes, mains, and other structures to prevent their being damaged or mis-aligned pipe or any damage to any utilities or related existing structures. Repair will be at the permittee's own expense.

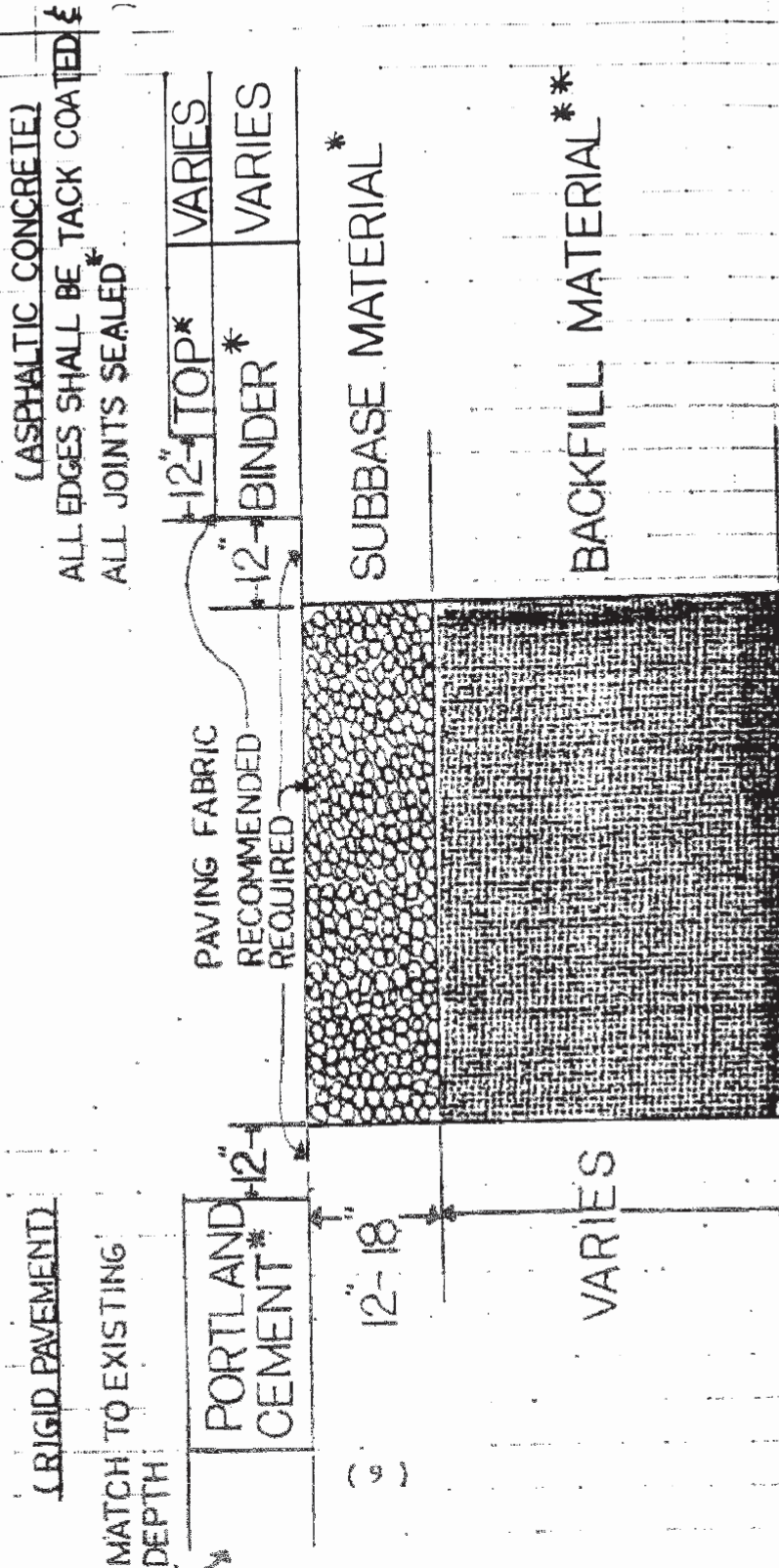
The integrity of the permittee will be considered when backfilling begins. Therefore, in most instances, it will not be necessary to contact the City of Elmira Engineer or his representative to inspect this process. However, if this integrity is compromised, by using shoddy methods or unacceptable materials, then it will be necessary for the procedures of proper backfilling to be strictly adhered to. This statement will not preclude random checks from being made.

Flowable Fill: A controlled low strength material may be used in place of compacted lifts of material, provided that its use is approved beforehand by the City of Elmira, and provided that it is 28-day, 60psi material. Only fill that flows easily and does not require vibration will be allowed. It must be cured to initial set before subsequent layers of asphalt can be placed; traffic will not be permitted to run on cured flowable fill. The fill must be protected by steel plates if the road is to be opened to traffic before asphalt placement has been completed.

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EXCAVATION BACKFILL STANDARD



* NOTE: ALL MATERIAL SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATIONS
 ** NATIVE MATERIAL TO BE USED UNLESS IT IS FOUND UNSUITABLE BY THE
 CITY OF ELMIRA, N.Y. ENGINEER OR HIS REPRESENTATIVE

SECTION V – PAVEMENT REPAIRS

General: Except with the permission of the City of Elmira Engineer or his representative:

- 1) The final pavement repair will be placed within twenty-four (24) hours upon completion of backfilling.
- 2) The minimum widths of all replaced pavement shall be three (3') feet in their smallest dimension.

Permanent Pavement Repair: Pavement repairs must be made as shown on Excavation Backfill Standard (See pages 5 & 9).

The pavement to be repaired shall be trimmed so that all edges are vertical and horizontally squared off with straight lines to give a neat appearing patch. All edges shall be tack coated if asphaltic. The patch shall be made of material, equal, or superior to the existing pavement material. Bituminous concrete patches shall be rolled in both directions with a roller weighing at least five (5) tons. A vibrating tamp may be used if of a type approved by the City of Elmira Engineer or his representative. The thickness of the replaced pavement shall be at least that of the existing pavement and shall be uniform over its entire area. Crown and slope of the street shall be maintained within the patches.

On bituminous pavements each separate layer of material must be tack coated starting with the top of the sub-base.

On rigid pavements, tack coat must be applied between the concrete and the wearing surface, if any wearing surface exists.

Temporary Pavement Repair: All pavement repairs that fall under the winter construction season must be temporarily patched with Class "A" cement concrete as specified in NYSDOT Standard Specifications, Section on "Rigid Pavements." This concrete patch will be eight (8") inches thick on all primary roads and six (6") inches thick on all secondary roads. Primary and secondary roads will be determined by City of Elmira Engineer or his representative. When completed, this temporary patch will be flush with the surrounding pavement, so as to give a uniform surface. This concrete patch is subject to removal the following spring at which time the proper patching procedures, as outlined above, will be followed.

Sub-base Defined: This refers to the same description, materials, and construction details, etc., as set forth in NYSDOT Standard Specifications, Section on "Bases and Sub-bases."

SECTION V – PAVEMENT REPAIRS (Continued)

Bituminous Pavements Defined: This refers to the same description, materials, and construction details, etc., as set forth in NYSDOT Standard Specifications, Section on “Bituminous Pavements.”

Rigid Pavements Defined: This refers to the same description, material, and construction details, etc., as set forth in NYSDOT Standard Specifications, Section on “Rigid Pavements.”

Asphaltic Tack Defined: This refers to the same description, materials, and construction details, etc., as set forth in the NYSDOT Standard Specifications, Section on “Materials Details”, Table on “Asphalt Emulsion Tack Coat.”

Paving Fabric Defined: A non-woven polypropylene mat that holds residual asphalt and forms a reinforced waterproof membrane under surface to be repaired and also acts as a stress relief underlayer. The material shall be a high density asphalt mastic, sandwiched between two layers of polyester fabric meeting the following properties:

Density	80 lbs./ft.	ASTM E 12-70
Weight	0.9 lb./ft.	
Caliper (Retains 95% caliper after loading)	0.135 inches	ASTM D1777
Absorption	1% Max.	ASTM D517-68
Brittleness	Pass	ASTM D517-68
Softening Point (Mastic)	200 deg. F. Min	ASTM D2398-68
Cold Flex (2” x 5” Specimen 180 deg. Bend on 2” Mandel-0 deg. F.)	No Cracking	
Heat Stability (2” x 5” Specimen Hung Vertically in a Mechanical Convection Oven-2 Hrs. – 190 deg. F.)	No Dripping or Delamination	
Polyester Reinforcement: Cycles to Break (Single Fiber)	2,100,000 plus	
Flammability (Self-Extinguishing, no burn rate when tested in accordance with Federal Dept. of Transportation Specification 302)		
Per cent Elongation	100%	
Tensile Strength	1,000 lbs./in.	

SECTION V – PAVEMENT REPAIRS (Continued)

Surface Preparation for Paving Fabric: The surface upon which the material is to be placed should be free of dirt, water, and vegetation, then tack coated. The tack coat can be applied either by spraying with a hand-held distributor, a truck distributor, or by manual application. In all cases, the surface must be covered uniformly and sufficiently. Correct application will be determined by the City of Elmira Engineer, or his representative.

Material Placement of Paving Fabric: The use of a paving fabric is mandatory on any excavation that falls within a roadway area in the City of Elmira, New York. The City of Elmira Engineer or his representative will determine what constitutes a roadway and the limits thereof.

The paving fabric shall be placed on top of the sub-base material as shown on the attached Standard Drawings **(See Pages 5 & 9)**. It shall cover the entire excavation (length & width) plus the cut back distance (an additional 12”) in both directions.

The City of Elmira recommends that a second layer of paving fabric be placed between the wearing surface and the base material, if such layers exist. This additional paving fabric should cover the entire original excavation plus forty-eight (48”) inches (two (2) twelve (12”) inch cut back distances, **(See Standard Drawings, Pages 5 & 9)**. However, this secondary layer of paving fabric is not mandatory.

The material shall be placed into the tack prior to the time the emulsion has cooled and lost its tackiness. The woven polyester side of material should be placed up (exposed to traffic).

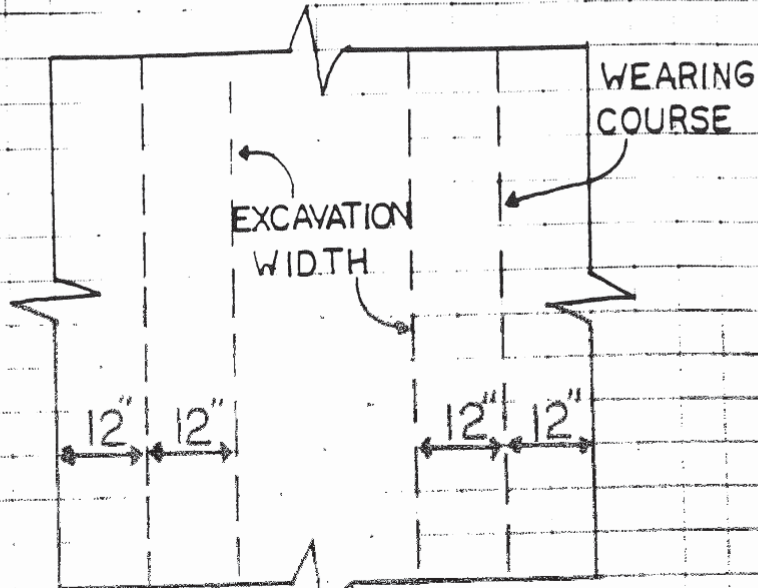
Where transverse and longitudinal joints meet, the mat may be butted or overlapped. Additional tack is required to bond the two mat areas together where overlapping is used.

Cornering can be accomplished without sectioning the material by walking gathered material to one spot and slicing out the bubble with a razor knife and tacking the overlap.

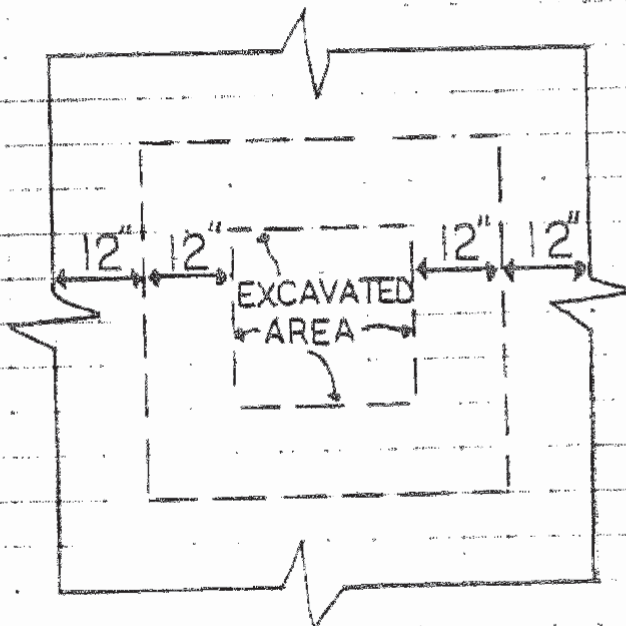
Removal and replacement of material that is damaged after placement is the responsibility of the permittee.

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EXCAVATION REPAIR STANDARD
TOP VIEW



PAVEMENT REPAIR STANDARD
TOP VIEW

(12)

SECTION VI – SAFETY REQUIREMENTS

Safety is the sole responsibility of the permittee. Safety costs will be borne entirely by the permittee.

On any construction that requires the street to be closed, it is the responsibility of the permittee to notify the City of Elmira Police Traffic Bureau. They may require sketches showing how traffic is to be re-routed. **Notification must be forty-eight (48) hours prior to construction.** Bureau may reject plan in which case construction cannot commence.

Safety and security of the area around the excavation will be the sole responsibility of the permittee. Every attempt shall be made to protect the public from hazardous conditions. Flashing lights, wood barricades, steel plates, etc., are examples of such protection. In those cases where unsafe conditions occur, as determined by the City of Elmira Police Department, it may be necessary for personnel from the Public Works Department to correct the unsafe conditions such as adding additional barricades. In these cases, the cost shall be at the Permittee's expense.

TRAFFIC PROTECTION

All requirements will meet O.S.H.A. guidelines, as well as M.U.T.C.D. guidelines. **(See O.S.H.A. and M.U.T.C.D. Manuals)**

EVACUATION SAFETY

All requirements will meet O.S.H.A. guidelines and M.U.T.C.D. guidelines, as well as NYSDOT Standards and Specifications for construction and materials. **(See O.S.H.A., M.U.T.C.D., and NYSDOT Manuals)**

PERSONAL SAFETY

All requirements will meet O.S.H.A. guidelines. **(See O.S.H.A. Manual)**

Note: At no time will any employee of the City of Elmira enter an excavation that does not meet O.S.H.A. Standards. This may affect proper inspection.

SECTION VII – INSURANCE REQUIREMENTS

The City of Elmira requires the following insurance amounts and types for all permittees completing work in Elmira.

- a) **Workers' Compensation Insurance and Disability Benefits Insurance** shall be obtained in accordance with the Law of the State of New York.
- b) **Public Liability and Property Damage Insurance**
 - 1) **Public Liability Insurance:** Not less than one million (\$1,000,000) for injuries including accidental death to any one person, and subject to the same limit for each person, and in an amount not less than two million (\$2,000,000) on account of one occurrence.
 - 2) **Property Damage Insurance:** Not less than two-hundred fifty thousand (\$250,000) for damages on account of any one accident, and in an amount not less than \$250,000 for damages on account of all accidents.
- c) **Owner's Protective Liability and Property Damage Insurance** in amounts equal to that specified for public liability and property damage insurance to protect the City against any and all claims arising from the operations of the permittee. Owner's Protective Liability Insurance policies should contain the following provisions:
 - 1) The presence of the City's agents and employees on the site of the work shall not invalidate the policy of insurance.
 - 2) The policy shall not be invalidated by reason of any violation of any of the terms of any policy issued to the permittee.
- d) All policies of insurance required of the permittee, except Workers' Compensation Disability Benefits, insuring, indemnifying and saving harmless the City of Elmira, shall be endorsed **naming the City of Elmira and its officers, employees and agents, as an ADDITIONAL INSURED ON A PRIMARY BASIS.**
- e) **Proof of Coverage of Insurance:** The permittee shall furnish the City certificates of all insurance, each of which shall contain the following provision: Such insurance shall not be cancelled, terminated, modified, or changed by either the permittee or the insurance company, except on ten (10) days prior written notice sent by the insurance company via registered mail to the City. Such notices shall be addressed to the City of Elmira, New York.

SECTION VIII – PATCH REPAIR IF FAILURE OCCURS

All excavations will have to be guaranteed from deterioration (i.e., settlement, pavement failure, etc.) for a period of five (5) years. If patch failure occurs, as determined by the City of Elmira Engineer or his representative, repair will be made as per attached standards (**See Pages 13 & 17**). After the repair, the excavation shall be guaranteed for an additional five (5) year period.

This work shall be completed by the permittee within seven (7) days of the receipt of notification as given by the City of Elmira.

If the above specifications are not met, the repairs will be made by the City of Elmira and all costs will be incurred by the permittee.

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SECTION IX - ABBREVIATIONS

A.D.B.E.	--	As Determined by Engineer
A.S.T.M.	--	American Standards for Testing Materials
DEG.	--	Degree
DIA.	--	Diameter
F.	--	Fahrenheit
Ft.	--	Feet
H.	--	Height of Fill over top of pipe
H.D.	--	Hub Diameter, outside diameter of pipe at bell/band
I.D.	--	Nominal Inside Diameter
In.	--	Inches
Max.	--	Maximum
Min.	--	Minimum
M.U.T.C.D	--	Manual on Uniform Traffic Control Devices
N.T.S.	--	Not to Scale
NYSDOT	--	New York State Department of Transportation
O.D.	--	Outside Diameter
O.S.H.A.	--	Occupational Safety and Health Administration
R.O.W.	--	Right-of-Way
U.F.P.O.	--	Underground Facilities Protective Organization
W=Trench Width	--	2.0 ft. + H.D. for pipes 48" and less I.D. 2.5 ft. + H.D. for pipes greater than 48" I.D. 1.0 ft. Min., + O.D. for 18" & 24" polyethylene pipe
>	--	Greater than
<	--	Less than

SECTION X - BIBLIOGRAPHY

Manual of Uniform Traffic Control Devices as adopted by NYSDOT from Codes, Rules and Regulations of the State of New York; Manual No. 3309.

Manual of Uniform Traffic Control Devices for Streets and Highways, Washington, D.C: Technical Data Center, Document AA D.1-1961, Part V, 1961.

Occupational Safety Health Administration Code of Federal Regulations, Labor 29, Part 1926 Revised as of July 1, 1990, Sub-part P-Excavation 1926.650: U.S. Government Printing Office, Washington, D.C., 1990.

Standard Specifications Construction and Materials – Office of Engineering, NYSDOT, January 2, 1990.

**CODE OF ORDINANCES
CHAPTER 22 – ARTICLE II**

Section 1. That Chapter 22, Article II, Section 22-31 of the Code of Ordinances of the City of Elmira, as amended, is hereby amended to read as follows:

****Section 22-31. Issuance; fee; term; etc.***

- (a) The City Manager upon receipt of an application for a permit under this division, may issue a permit authorizing the applicant to make, or cause or permit to be made, the excavation or opening in, upon or under the street, sidewalk or alley at the location specified therein, provided, however, that such applicant shall agree to indemnify the City against loss or damage resulting by reason of excavation or opening. There shall be no fees for such permits for new one- or two- family construction. For all other cases, such application shall be accompanied by the following fees for the permit:

Utility or General Excavation Permits (Digging in City R-O-W)

Road paved less than 1 year ago	\$450.00
Road paved less than 2 years ago	\$405.00
Road paved less than 3 years ago	\$360.00
Road paved less than 4 years ago	\$315.00
Road paved less than 5 years ago	\$270.00
Road paved less than 6 years ago	\$225.00
Road paved less than 7 years ago	\$180.00
Road paved less than 8 years ago	\$135.00
Road paved less than 9 years ago	\$90.00
Road paved more than 9 years ago	\$45.00
Any other pavement/road	\$35.00
Lawn area	\$60.00

- (b) Such a permit shall not be given for a longer period of time than ten (10) days in the first instance, but upon application for extension it may be extended for such additional period or periods of time as may be necessary to complete the work for which such excavation or opening is made.
- (c) The City Manager, when it is considered necessary in the public safety, shall have authority to require the person to whom such a permit is issued to construct a sufficient walk around the obstruction caused by the excavation or opening, so as to provide a safe and convenient passageway for pedestrians.
- (d) The City Manager also shall have authority to direct the manner in which the work shall be conducted, and, at any time, for cause, to cancel, rescind or alter any such permit.

Section 2. Repeal.

All ordinances or parts of ordinances heretofore passed which are in conflict or are inconsistent with any provision or provisions of this ordinance are hereby repealed.

Section 3. Effective Date.

This ordinance shall take effect immediately upon adoption and published according to law.

Adopted on August 15, 1988 and published on August 22, 1988.

***Section 22-31(a) Ordinance No. 2007-080 Adopted by City Council on February 5, 2007**