

MAINTENANCE OF TRAFFIC

Item 614 - Maintaining Traffic

All pavement and/or right-of-way opening must conform to the current addition of the State of Ohio Department of Highway Construction and Material Specifications, with supplements or changes thereto. Also, the contractor assumes all responsibilities and liabilities regarding strict adherence to applicable sections for the maintenance of traffic and public safety as set forth in the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways." All traffic control devices must be in place prior to starting construction.

All construction must conform to the "Driveway Regulations and Pavement and/or Right-Of-Way Opening Provisions for the Unincorporated Area of Hamilton County as Adopted by the Board of Hamilton County Commissioners" with supplements or changes thereto.

The preservation of trees is of the utmost importance. When working within 15' of a tree, unless the work is in the street pavement, the Contractor shall notify the City Forester at 352-3973 at least 24 hours in advance so that the forester can inspect the work. The contractor shall immediately stop work when requested by the forester until the CWW project Engineer can be consulted and instruct the contractor how to proceed.

The contractor is advised that the entire roadway (including all sidewalks) must be open and available for the movement of traffic during all non-working hours. Unless granted in writing from the Engineer, the contractor shall not be permitted to store materials on sidewalks. During all non-working hours the roadway (including all sidewalks) must be restored to a condition suitable for the movement of traffic.

The use of plates will be permitted; however, the plates shall be properly anchored flush to the existing pavement in a manner that minimizes the amount of noise produced by vehicular traffic.

All equipment must be stored off the traveled roadway during all non-working hours. Evidence of written permission shall be furnished to the water works engineer for the storage of equipment and materials on side streets and private property. Pedestrian safety will be maintained at all times.

A traffic control drawing indicating all signs (including detour signs) barricades, lights, etc., shall be submitted to the Engineer for approval at least seven days prior to the start of work.

The standard device for closing any lanes to traffic shall be properly weighted, reflectorized, 30 to 55 gallon drums. All drums used in lane(s) closures shall have the Type "C" steady burning warning lights.

An electric flashing arrow panel of a type shown on Standard Construction Drawing TC-35.10 shall be installed in each taper closing a lane to traffic centered in the closed lane.

Local traffic, facilities for pedestrians and vehicular ingress and egress, shall be provided at all times for adjacent properties.

All line striping (dashed white and solid yellow) shall be replaced at the end of each work day by the contractor by using class one (non-abbreviated) temporary pavement markings, or permanent pavement markings. At the completion of the project all line striping and raised pavement markings shall be permanently replaced by the contractor with the approval of the Village of Mariemont Engineer (within Mariemont) and the County Traffic Engineer (within Columbia Township).

Traffic loops exists in the Village Square (Miami, Madisonville, Wooster intersections), Pocahontas and at the driveway entrances between Pocahontas and Walton Creek. Any loops damaged by the contractors work shall be repaired immediately at contractor expense.

The following restrictions on local roadways shall apply to the construction involved in this project:

- a) On Wooster Pike from Oak Street to Plainville Road between the hours of 7-9:00 AM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- b) On Wooster Pike from Plainville Road to West Street between the hours of 7-9:00 AM and 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. Between 9 AM and 4 PM, EB Wooster may be closed and traffic alternated in the lanes of WB Wooster for EB and WB traffic. During the road closure, the services of two off-duty Village of Mariemont Police Officers shall be used to maintain traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- c) On WB Wooster Pike from West Street to the Square (Miami/Madisonville Road) between the hours of 7-9:00 AM, Monday through Friday and during all non-working hours, the entire WB roadway shall be open and available for the movement of traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- d) On EB Wooster Pike from West Street to the Square (Miami/Madisonville Road) between the hours of 4-6:00 PM, Monday through Friday and during all non-working hours, the entire EB roadway shall be open and available for the movement of traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- e) On Wooster Pike at the Square from Sta 20+00 to Sta 24+00 between the hours of 7-9:00 AM and 3-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. Between 9 AM and 3 PM one eleven foot lane in all directions including a lane to and from the parking lots at the interior of the square shall be open and available for the movement of traffic. During this work, the services of two off-duty Village of Mariemont Police Officers shall be used to maintain traffic. No night or weekend work will be permitted in this area.
- f) On EB Wooster Pike from Crystal Springs to Sta 30+50 between the hours of 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. On WB Wooster Pike from Crystal Springs to Sta 30+50 between the hours of 7-9:00 AM and 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. During all other working hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- g) On Wooster Pike from Sta 30+50 to Sta 33+00 between the hours of 7-9:00 AM and 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. Between 9 AM and 4 PM, EB Wooster may be closed and traffic alternated in the lanes of WB Wooster for EB and WB traffic. The services of two off-duty Village of Mariemont Police Officers shall be used to close the road and maintain traffic. During all other working hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- h) On EB Wooster Pike from Sta 33+00 to Sta 41+00 (East of Pocahontas Avenue) between the hours of 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. On WB Wooster Pike from Sta 33+00 to Pocahontas Avenue between the hours of 7-9:00 AM and 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.
- i) Traffic into and out of all streets intersecting Wooster Pike shall be maintained at all times except as noted below. This may require the use of flaggers furnished by the contractor.
- j) The following intersecting streets with Wooster Pike may be closed during the following working hours when the contractor is working in these areas.

Oak Street - 9:00 AM to 3:00 pm

West Street - North and South of Pike - 9:00 AM to 3:00 PM

Bank Street - 9:00 AM to 4:00 PM

East Street - South of Pike - 7:00 AM to 4:00 PM

Indianview Road - North and south of Pike - 7:00 AM to 4:00 PM

Petosky Avenue - North and South of the Pike - 9:00 AM to 4:00 PM

k) On Plainville Road from Wooster to Murray between the hours of 7-9:00 AM and 4-6:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.

l) One week prior to beginning work the Contractor shall provide variable message boards (2 total) at the east and west end of the Village of Mariemont. The message board locations will be determined by the Village Police Chief and must remain in place for ten days. The message board will read approximately "utility work begins June 14, expect delays".

m) No work shall take place on weekends or from 10:00 PM to 7:00 AM during the week. Exceptions will be made for shut downs and tie-ins. The contractor shall notify the Village or the Township 5 days in advance of any work between 10 PM and 7 AM.

n) On Wooster Pike from Sta 41+00 (east of Pocahontas) to the Newtown Bridge all work shall be accomplished between the hours of 8 p.m. and 6 a.m. (evening and early morning work). Between the hours of 6:00 AM and 8:00 PM, Monday through Friday and during all non-working hours, the entire roadway shall be open and available for the movement of traffic. During all other hours one eleven foot lane in each direction shall be open and available for the movement of traffic.

For work within the Village of Mariemont, the off-duty Police Officers are considered to be employed by the Village and the Village shall be responsible for their actions. Even though the off-duty police officers are employed by the Village of Mariemont, the Project Engineer shall have control over their placement. However the contractor must agree to indemnify and hold harmless the Village of Mariemont from any and all loss, liability or claims which may arise by virtue of the off-duty police officer performing work for the contractor. For additional information regarding the services of an off duty Village of Mariemont Police Officer within Mariemont please contact Police Chief Richard Pope at 271-4089. For additional information regarding the services of a Police Officer within Columbia Township please contact the County Sheriff.

This project has been scheduled to eliminate conflicts with school operations. Therefore, the work within the Village of Mariemont must be completed between June 4, 2002 and August 26, 2002.

No Payment for traffic control, line striping and off-duty police officers will be made under Item 614 "Maintaining Traffic" of the specifications. All costs for maintaining traffic and line striping shall be included in the contractor's unit bid price for Item 1101 "Furnishing and Laying Ductile Iron Pipe and Fittings."

RESTORATION DETAILS

SPECIAL NOTES

1. All surface asphalt, temporary and/or permanent, must be rolled into place. Mechanical tamping or any other means shall not be permitted.

2. The contractor must provide a surface course level with the existing traveled roadway pavement. On projects where a lane closure has been allowed by contract, this requirement may be waived. However, if the lane closure is removed and the roadway is opened to traffic, the above requirement shall apply.

On projects where main line permanent base restoration is installed prior to the service branch installation, the asphalt surface course will be temporary. After the installation of all service branches, the contractor will then remove the main line temporary surface course and install the permanent surface course.

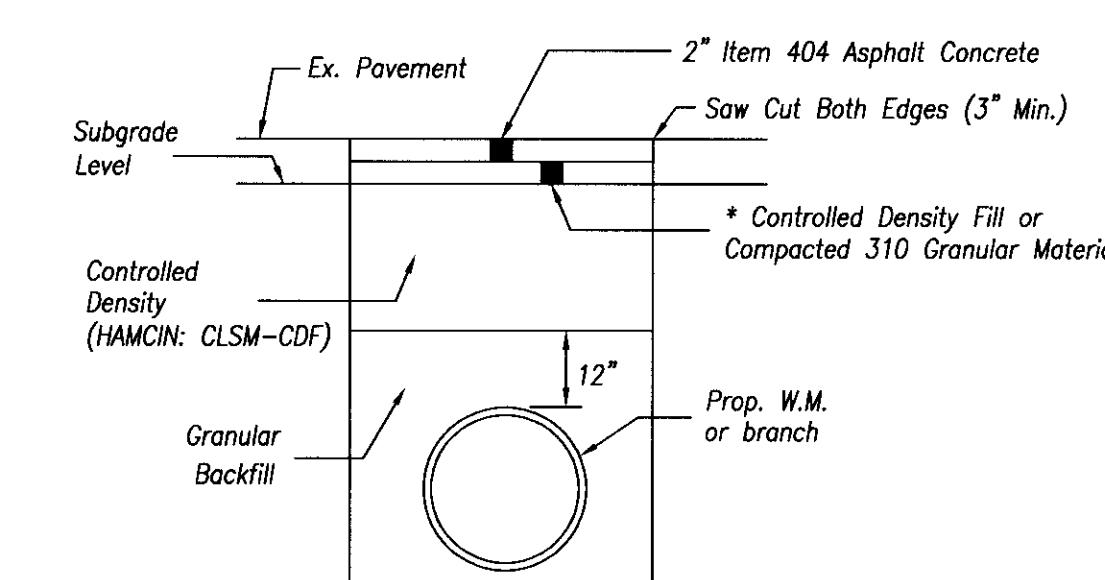
3. Controlled Density Fill must meet both HAMCN: CLSM-CDF performance specification and O.D.O.T. specification. All flowable fill products shall meet the requirements of the current Cincinnati Water Works Materials Testing and Specifications for Flowable Fill Products (dated 2/8/99). The CWW requirement is in addition to HAMCN specifications for flowable fill products. Copies of the CWW requirement are made available at the CWW Engineering Offices at 4747 Spring Grove Avenue, contact Russ Weber @ 591-7862. Also, the Contractor shall submit, prior to the start of construction, the necessary documentation for review and approval by the CWW.

4. Cold mix asphalt will NOT be permitted for temporary restoration. The contractor shall use Hot mix asphalt. When Hot mix asphalt is unavailable, the contractor shall, for temporary restoration purposes only, utilize 2" of High Early concrete or Cold mix with fibers as per O.D.O.T. specifications suitable for the movement of traffic.

5. Cold mix asphalt will be allowed in emergency cases on an overnight basis ONLY when no other temporary materials as stated above are available. When Cold mix asphalt is utilized in this manner, its removal and replacement with another temporary restoration will be the first order of business the next working day.

6. When any part of the base restoration is within 2.0' of the existing face of curb or existing edge of roadway, the base and surface restoration shall extend to the face of curb or existing edge of roadway.

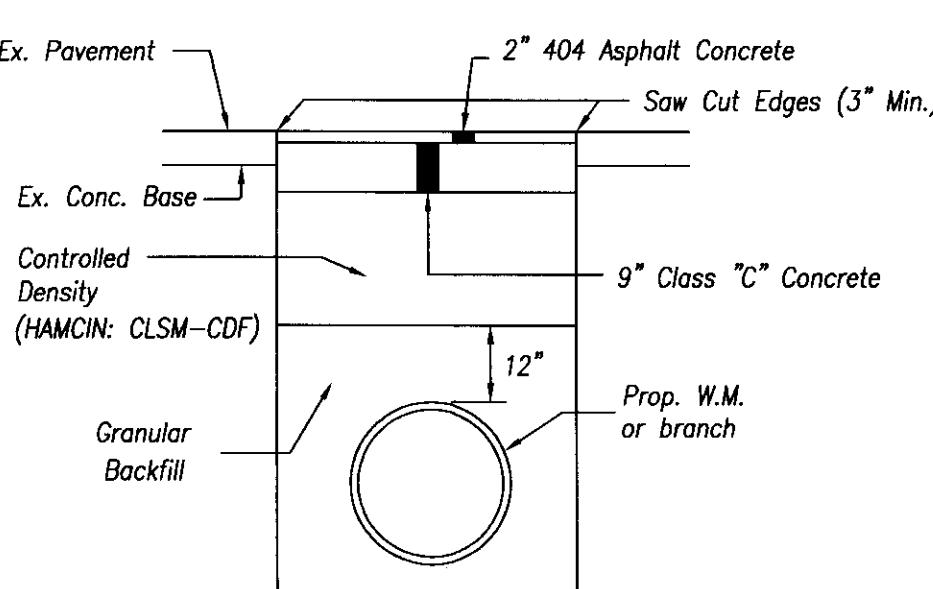
TEMPORARY RESTORATION



* The Controlled Density Fill or 310 Granular Material Above Subgrade Level Is To Be Removed To Permit Proper Pavement Restoration.

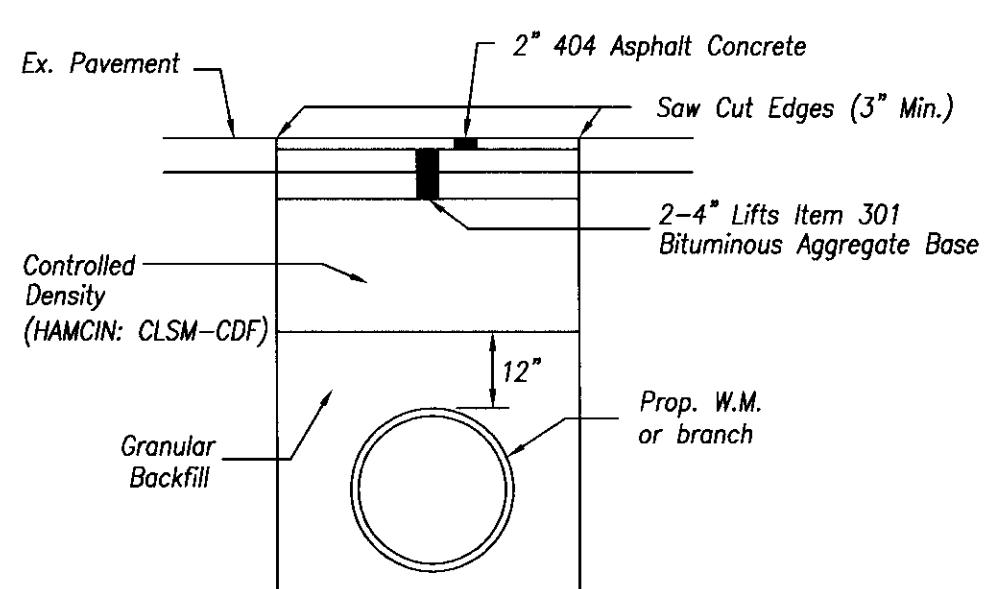
PERMANENT RESTORATION

Start of Project (Sta. 0+00) to Village of Mariemont Corp. Line (Sta. 41+00).

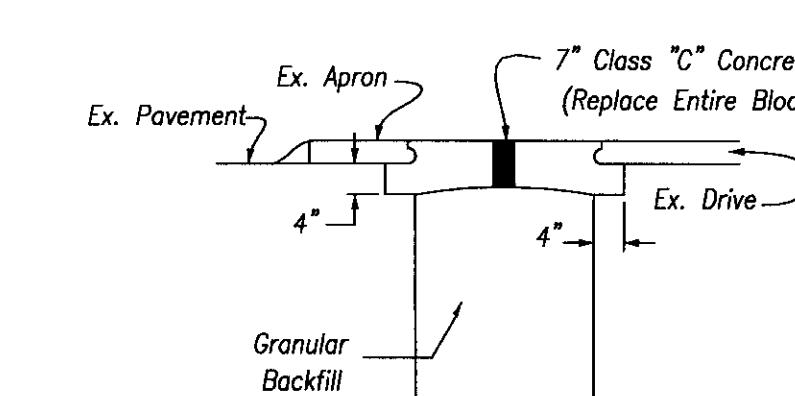


PERMANENT RESTORATION

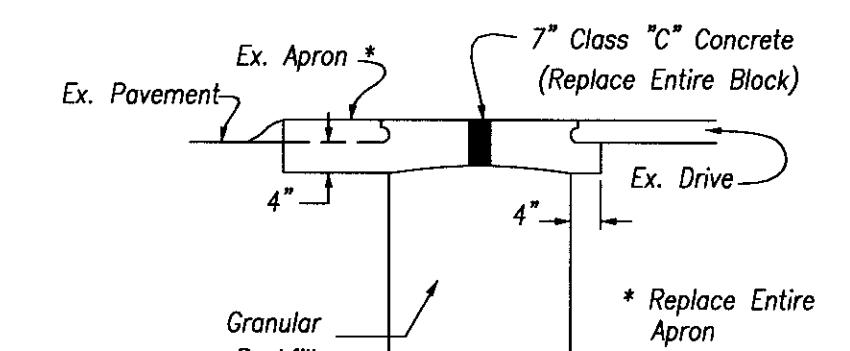
Village of Mariemont Corp. Line (Sta. 41+00) to End of Project (Sta. 92+00).



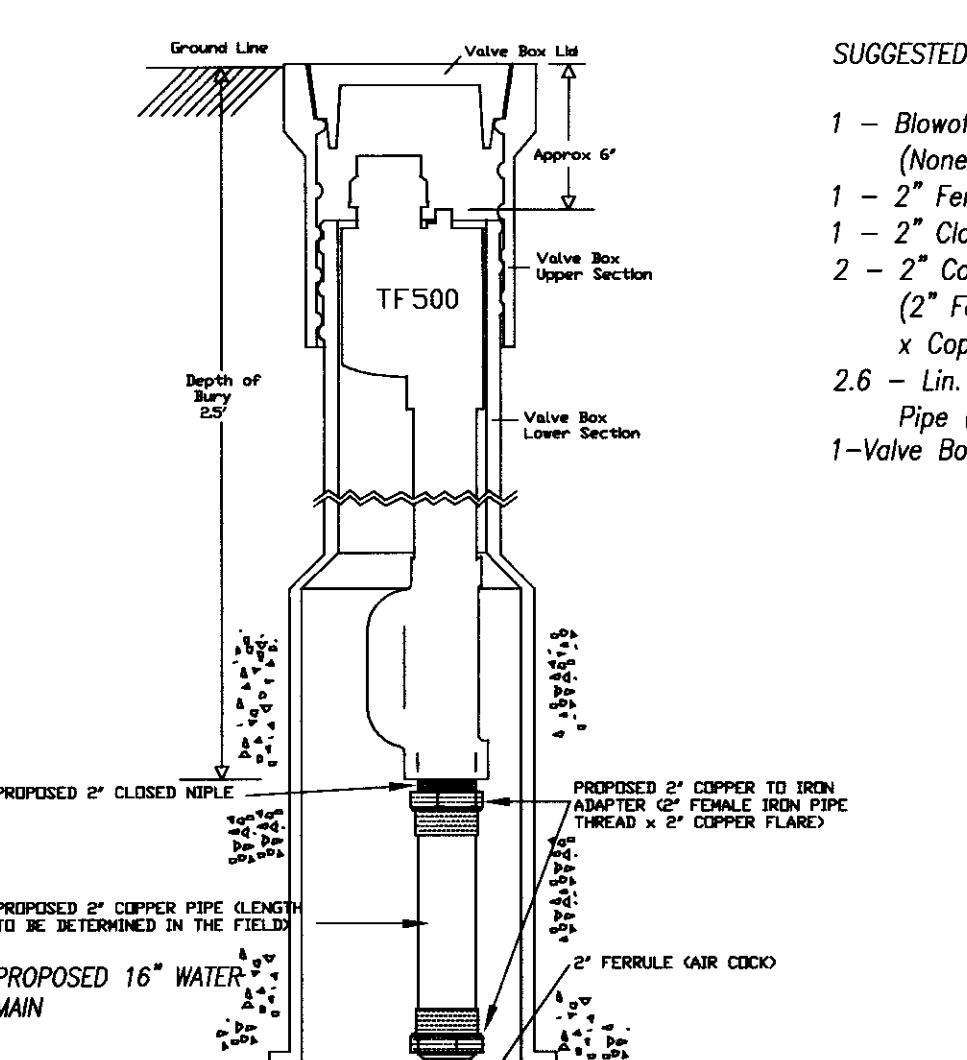
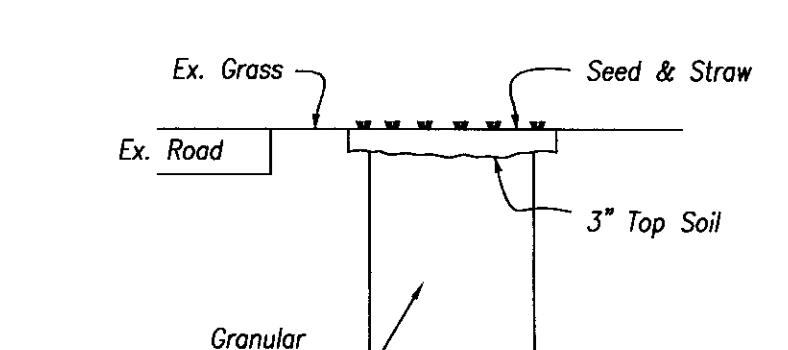
Sidewalk in Concrete Driveway



Concrete Driveway

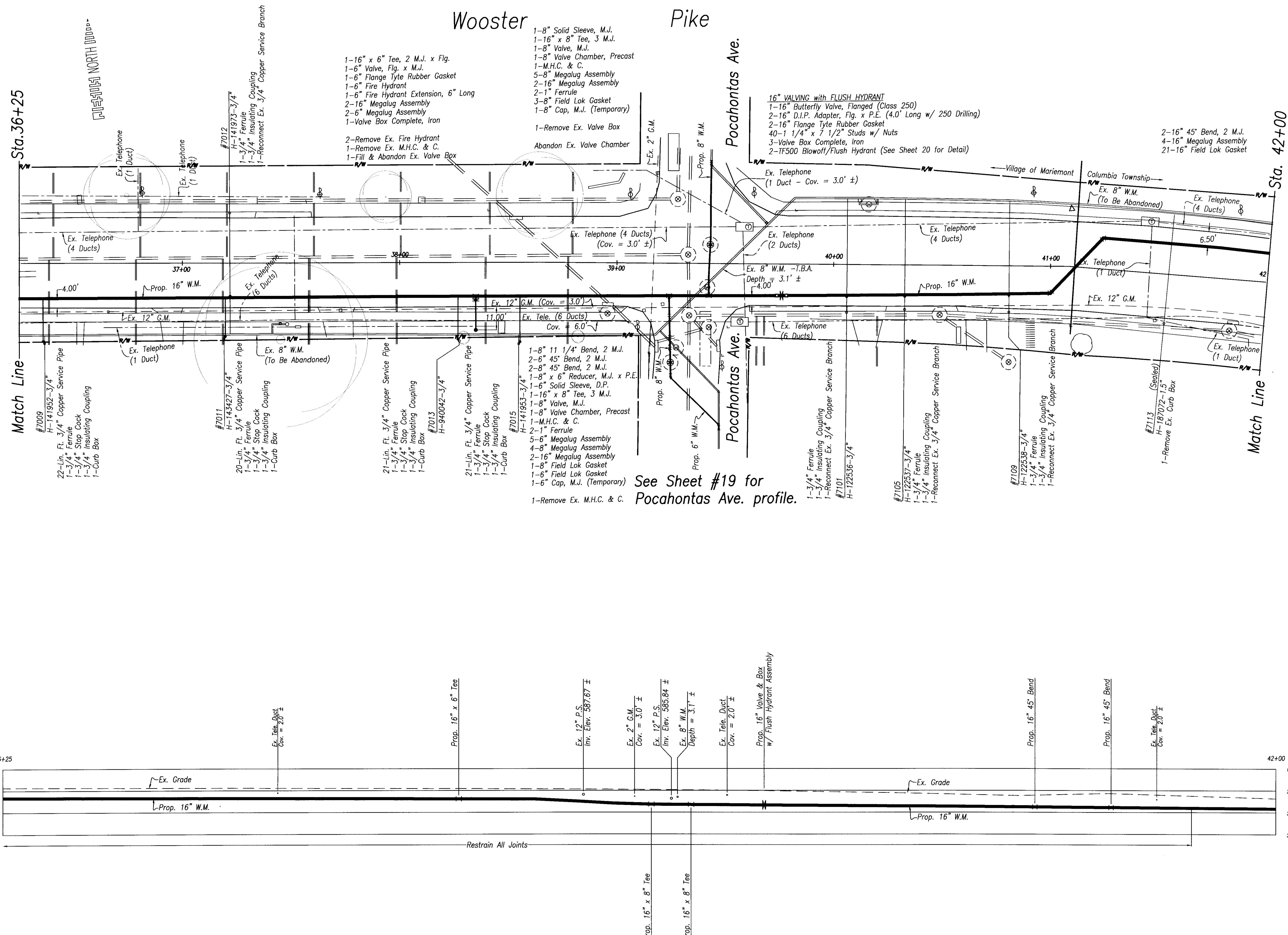


Grass Areas



NOT TO SCALE
Revised 23 Nov. 1999

#TF500 FLUSHING HYDRANT, ALL BRASS (EXCEPT STAINLESS STEEL FASTENERS). VERTICAL 2" FIP THREADED INLET, LESS SIPHON TUBE. INSTALLATION: 2.5' BURY, 2" FERRULE TAPPED ON WATER MAIN W/THREADED BRASS NIPPLE USED TO ADJUST HYDRANT TO GRADE, 2" STRAIGHT IN. Revised 23 Nov. 1999 HOS



Match Line Sta. 48+00

1-16" x 6" Tee, 2 M.J. x Flg.
1-6" Valve, Flg. x M.J.
1-6" Flange Tyte Rubber Gasket
1-6" Fire Hydrant
1-6" Fire Hydrant Extension, 6" Long
2-16" Megalug Assembly
2-6" Megalug Assembly
1-Valve Box Complete, Iron
1-6" Plug, M.J. (Temporary)

1-Remove Ex. Fire Hydrant
1-Fill & Abandon Ex. Valve Box

Wooster

Pike 16" VALVING with FLUSH HYDRANT
2-16" Butterfly Valve, Flanged (Class 250)
4-16" D.I.P. Adapter, Flg. x P.E. (4.0" Long w/ 250 Drilling)
4-16" Flange Tyte Rubber Gasket
80-1 1/4" x 7 1/2" Studs w/ Nuts
6-Valve Box Complete, Iron
4-TF500 Blowoff/Flush Hydrant (See Sheet 20 for Detail)

19-16" Field Lok Gasket
1-Fill & Abandon Ex. Valve Chamber

The Contractor is advised that after cutting the existing 20" steel casing and performing the necessary work, they will be required to fill all voids between the outside of the pipe and the casing with pea gravel and close the ends with 4" brick or a concrete bulkhead as described in the City of Cincinnati Supplement 1108.03.

All Cost for this work will be included in the contractor's unit bid price for Item-1101 "Furnish and Install 8" Ductile Iron Pipe and Fittings."

Match Line Sta. 54+00

Ex. 8" W.M.
(in 18" Casing)

Prop. 16" x 8" Tee

Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Tele. Duct
Cov. = 2.0 ±

Prop. 16" x 6" Tee

Ex. Grade

Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Grade

Prop. 16" x 6" Tee

Ex. Grade

Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Grade

Prop. 16" x 6" Tee

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Ex. Grade

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Prop. 16" Valve & Box
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Prop. 16" x 6" Tee

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Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

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Prop. 16" x 6" Tee

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Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Grade

Prop. 16" x 6" Tee

Ex. Grade

Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Grade

Prop. 16" x 6" Tee

Ex. Grade

Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Grade

Prop. 16" x 6" Tee

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Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

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Prop. 16" x 6" Tee

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Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

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Prop. 16" x 6" Tee

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Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

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Prop. 16" x 6" Tee

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Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

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Prop. 16" x 6" Tee

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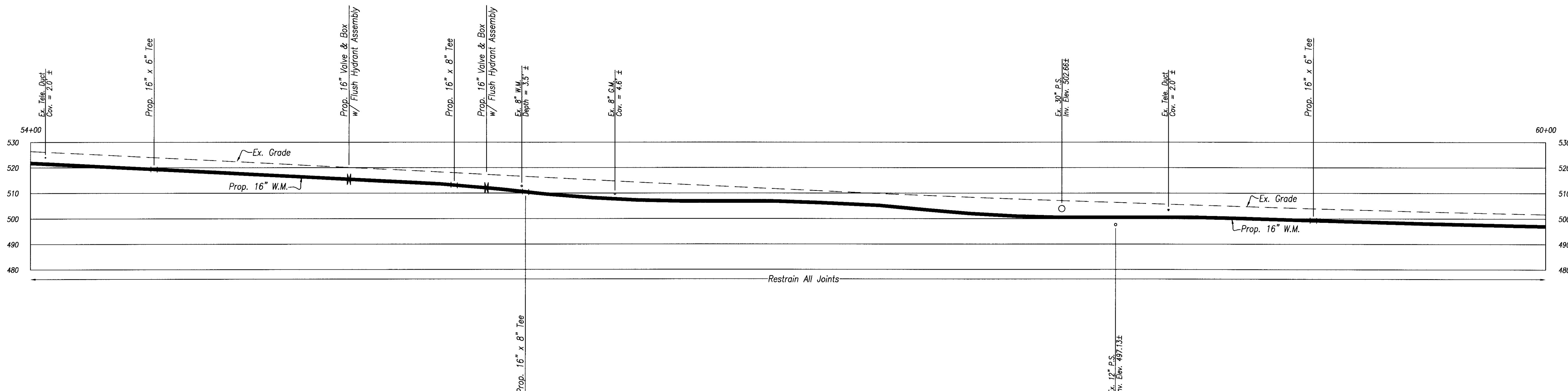
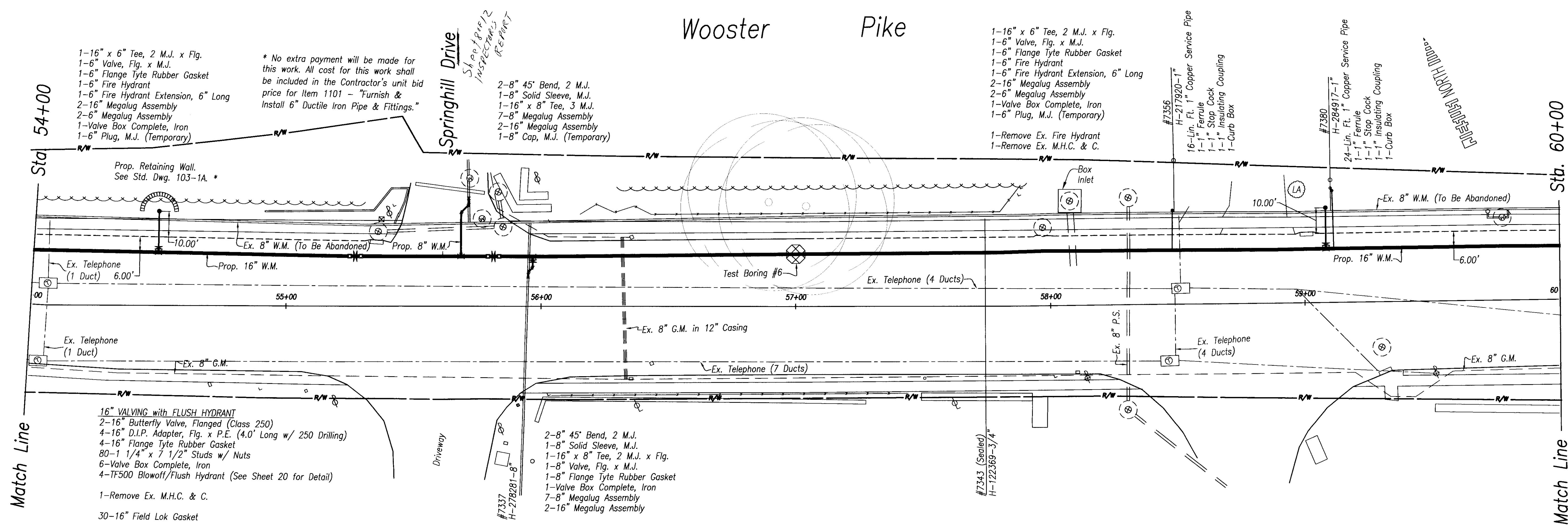
Prop. 16" x 6" Tee

Ex. Grade

Prop. 16" Valve & Box
w/ Flush Hydrant Assembly

Ex. Grade

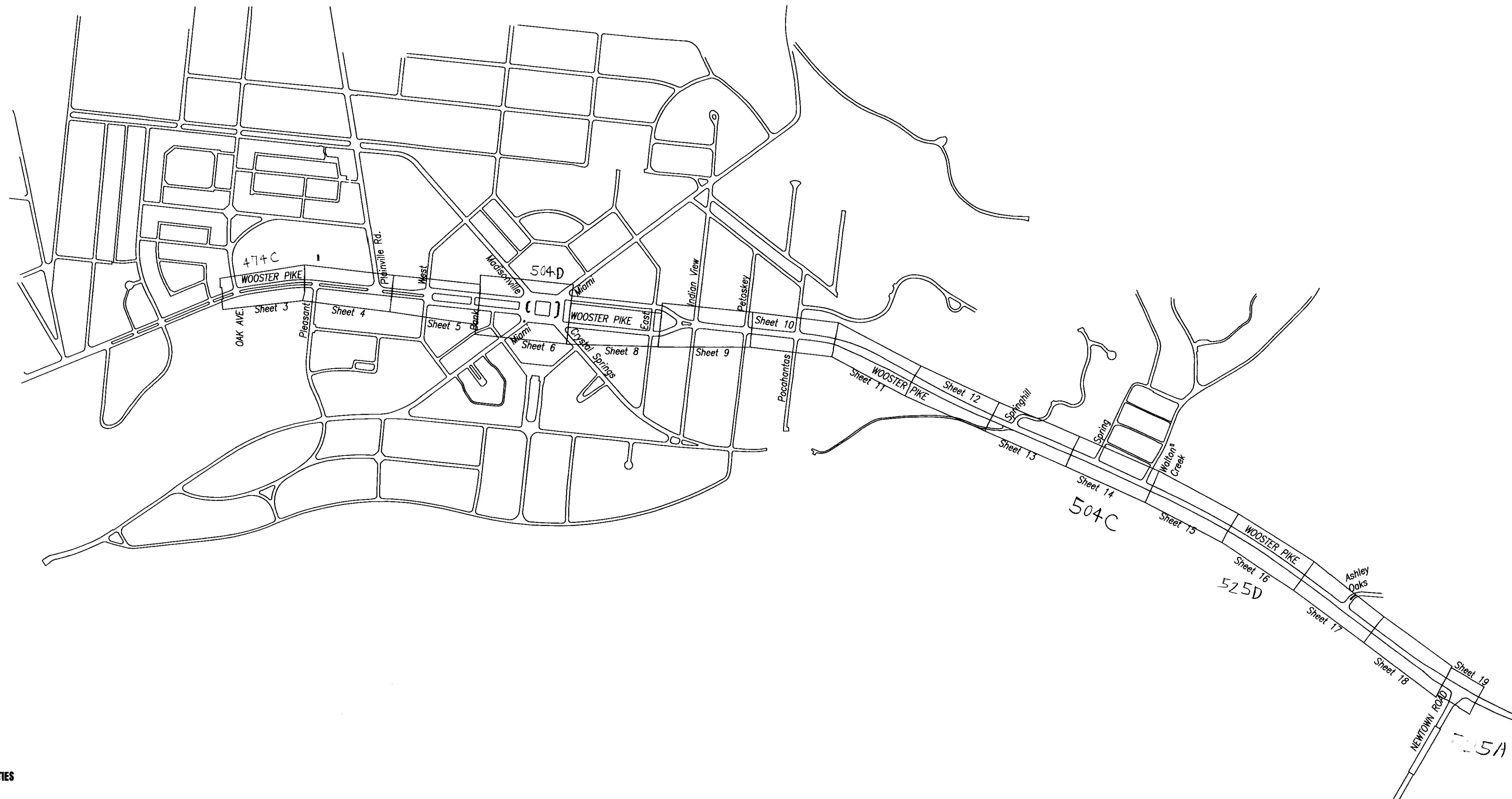
Prop.



WOOSTER PIKE

Oak Ave. to Newtown Rd.

Prop. 16" W.M.



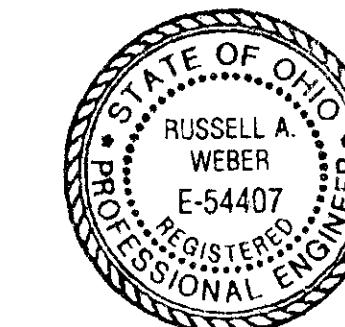
INDEX

General Provisions	2
Suggested Bill of Materials	2
Plan / Profile Sheets	3-19
Traffic Notes	20
Restoration Details	20

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APPROVED:

SCALE: 1" = 20' Horizontal
1" = 20' Vertical



Russell A. Weber 5/1/02
SUPERVISING ENGINEER - DESIGN DATE
Mark R. Galle 5/3/02
PRINCIPAL ENGINEER - SYSTEM FACILITIES DATE
Jeff C. Jones (J.C.J.) 5/3/02
CHIEF ENGINEER DATE

CINCINNATI WATER WORKS
ENGINEERING DIVISION
June 2002