

GENERAL NOTES

SPECIFICATIONS

The requirements of the Village of Groveport, together with the Construction and Material Specifications (CMS) of the City of Columbus, Ohio, including all supplements thereto in force on date of contract shall govern all materials and workmanship involved in the improvements shown on these plans except as such specifications are modified by the following specification, or by the construction details set forth herein, or by the Contract Documents.

SAFETY REQUIREMENTS

The Contractor and Subcontractor shall be solely responsible for complying with federal, state and local safety requirements, together with exercising precautions at all times for the protection of persons (including employees) and property. It is also solely the responsibility of the Contractor and Subcontractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work.

PERMITS

The Contractor shall obtain all necessary permits.

SANITARY FACILITIES

The Contractor shall furnish and maintain sanitary convenience facilities for the workmen and inspectors for the duration of the work.

OWPS NOTIFICATION

The Contractor shall cause notice to be given to the Ohio Utility Protection Service (telephone number (800) 362-2764 - toll free) and to the Owners of the utility facilities shown on the plan who are not members of a registered underground protection service in accordance with Section 153.64 of the Revised Code. Said notices shall be given at least two (2) working days prior to the start of construction.

EXISTING UTILITIES

The identity and location of the existing underground utility facilities known to be located in the construction area have been shown on the plans as accurately as provided by the owner of the utility. The Village of Groveport and/or the Engineer assumes no responsibility as to the accuracy of the locations or the depths of the underground facilities whether shown on the plans or not. Support, protection and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor. The cost of this work shall be included in the protection bid for the various items.

MISCELLANEOUS WORK

All items at work called for on the plans for which no specification method of payment is provided shall be performed by the Contractor and the cost of same shall be included in the price for various related items.

REPLACEMENT OF DRAIN TILES AND STORM SEWERS

All drain tile and storm sewers damaged, disturbed or removed as a result of the Contractor's operations shall be replaced with the same quality pipe or better, maintaining the same gradient as existing. Replaced drain tile shall be laid on compacted bedding equal in density to surrounding stratum. Replacement shall be done at the time of the backfill operation. Cost of this work is to be done at the Contractor's expense.

DEWATERING

Any well, well point, pit or other device installed for the purpose of lowering the groundwater level to facilitate construction of the project shall be properly abandoned in accordance with the provisions of Section 3745-9-10 of the Ohio Administrative Code or in accordance with the provision of this plan or as directed by the Village of Groveport or a Village representative.

SURPLUS EXCAVATION

The Contractor shall dispose of all surplus excavation.

WATER MAINS

All water line materials and installations shall be in accordance with the current City of Columbus Construction and Material Specifications and Standard Drawings. All bands, joint deflection and fittings shall be backed with concrete, where and as directed. All water lines located within pavement areas shall be backfilled with crushed aggregate meeting the requirements of item 304 of the CMS, and shall be placed and compacted as set forth under 801.09 of the CMS.

All water mains shall be constructed to a depth of 48 inches, as measured from the existing grade to the top of the water main, unless otherwise approved or directed by the Engineer. In case of conflict in grade between the water line and storm sewers, the water line shall be lowered during construction. Water service taps shall not be placed on the lowered end of the water line. Water service taps shall not be placed within 10 feet of any permanent structure (i.e. fire hydrant, storm sewer, inlet, etc.). All water lines shall maintain at least 10 feet horizontal and at least 18 inches vertical separation from storm sewers and sanitary sewers, unless otherwise approved by the Village.

OHIO EPA PLAN APPROVAL

The Contractor shall comply with all requirements and special conditions of the Ohio EPA Plan Approval issued for the project. All waterlines shall be AWWA approved, as stated in 801.02 of the CMS.

The normal working pressure in the waterlines will not be less than 35 psi.

Individual booster pumps will not be allowed for any individual service.

VALVES

Valves and valve boxes shall be adjusted to final grade as directed by the Engineer. The Contractor shall include the cost of valve box extensions and adjustments as required in the price bid for valves. If the top of the valve operating nut is more than 36" below finish grade, an extension stem shall be furnished to bring the top of the operating nut between 24" and 36" of the finished grade. Cost shall be included under item 802.

CONCRETE VALVE SUPPORTS

Concrete support shall be provided at all valves; as directed by the Engineer; as shown on the Standard Drawings; and as shown on the details herein.

STORAGE OF EQUIPMENT AND MATERIALS

No materials, including pipe, shall be stored within twenty (20) feet of any intersecting street or driveway. During non-working hours, storage of equipment shall comply with these same requirements and shall not in any way relieve the Contractor of his legal responsibilities or liabilities for the safety of the public.

SECURING UTILITY POLES

Existing utility poles within the influence of the water main trench shall be secured by the Utility Owner, prior to any excavation in the area. The Contractor is responsible for coordination with the Utility Company.

DEFLECTIONS

The Contractor shall be held responsible for the horizontal deflections or bends of the water lines in accordance with manufacture's specifications.

CONCRETE BACKING

All bands, joint deflections and fittings shall be backed with concrete where and as directed. The cost for such shall be included in the price bid for the various water main items.

EXPOSE

The Contractor shall expose the utility or structure indicated sufficiently in advance of laying the proposed water main in order to verify the proposed location. Cost to be included in price bid for the various items.

NOTIFICATION

The Village of Groveport, Water Department shall be notified at least (2) working days prior to construction of water facilities.

HYDROSTATIC TESTING PROCEDURE

A hydrostatic test, as required in Section 4 of the Standard AWWA Specification C-600 shall be conducted in accordance with Section 801.12 of the CMS. Each valve section of water main shall be tested independently of one another unless otherwise approved by the Engineer. A pressure test shall be conducted with all fire hydrants watch valves OPEN and fire hydrant foot valves CLOSED. Any testing performed against existing valves shall be at the Contractor's risk and in strict compliance with the requirements of the Engineer. If satisfactory results cannot be obtained against an existing valve, the new line shall be disconnected from the existing valve, plugged and retested. Damage caused by existing lines, valves and service connections shall be repaired by the Contractor at his expense.

OPERATION OF EXISTING VALVES

Existing valves may be operated only by the employees of the Village of Groveport. Contractor shall give one day notice of need to operate existing valves, unless otherwise agreed upon by the Village and the Contractor.

SITE VISIT

The Contractor is required to inspect the project work limits and fully inform himself concerning all conditions affecting the scope of work. Failure to do so shall not relieve him from any responsibility in the performance of the Contract.

WATER MAIN SHUTOFFS

Where it is necessary to shut off water mains and/or services in order to complete the improvements, the contractor shall coordinate such disruptions with the Village of Groveport (through its Water Dept. telephone 614-836-4591) and shall not effect the disruption until the party involved has been given advanced notice.

COMPLETION DATE

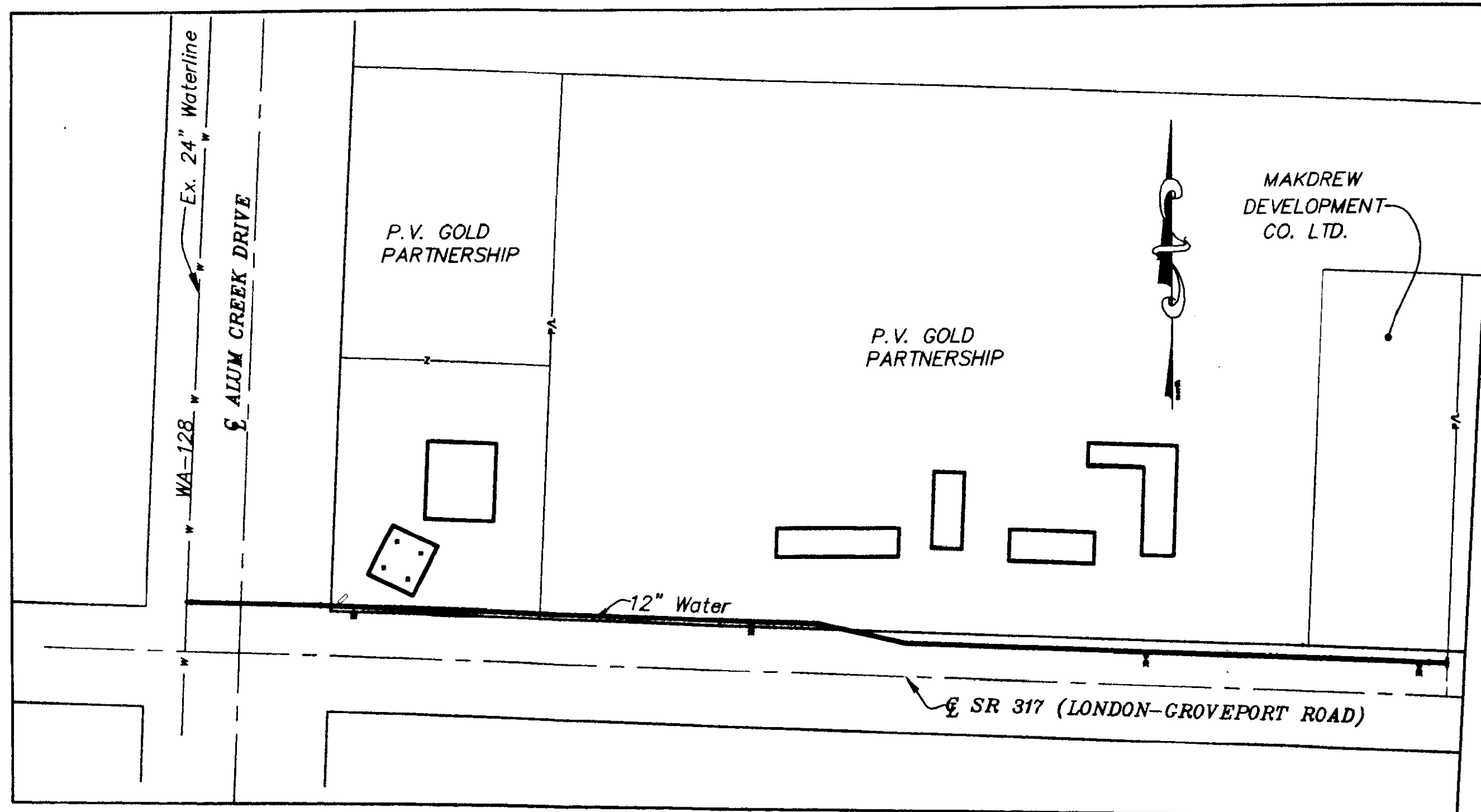
The Contractor shall complete the work within the time limit set forth in the Notice to Contractors.

RESTORATION AND CLEANUP

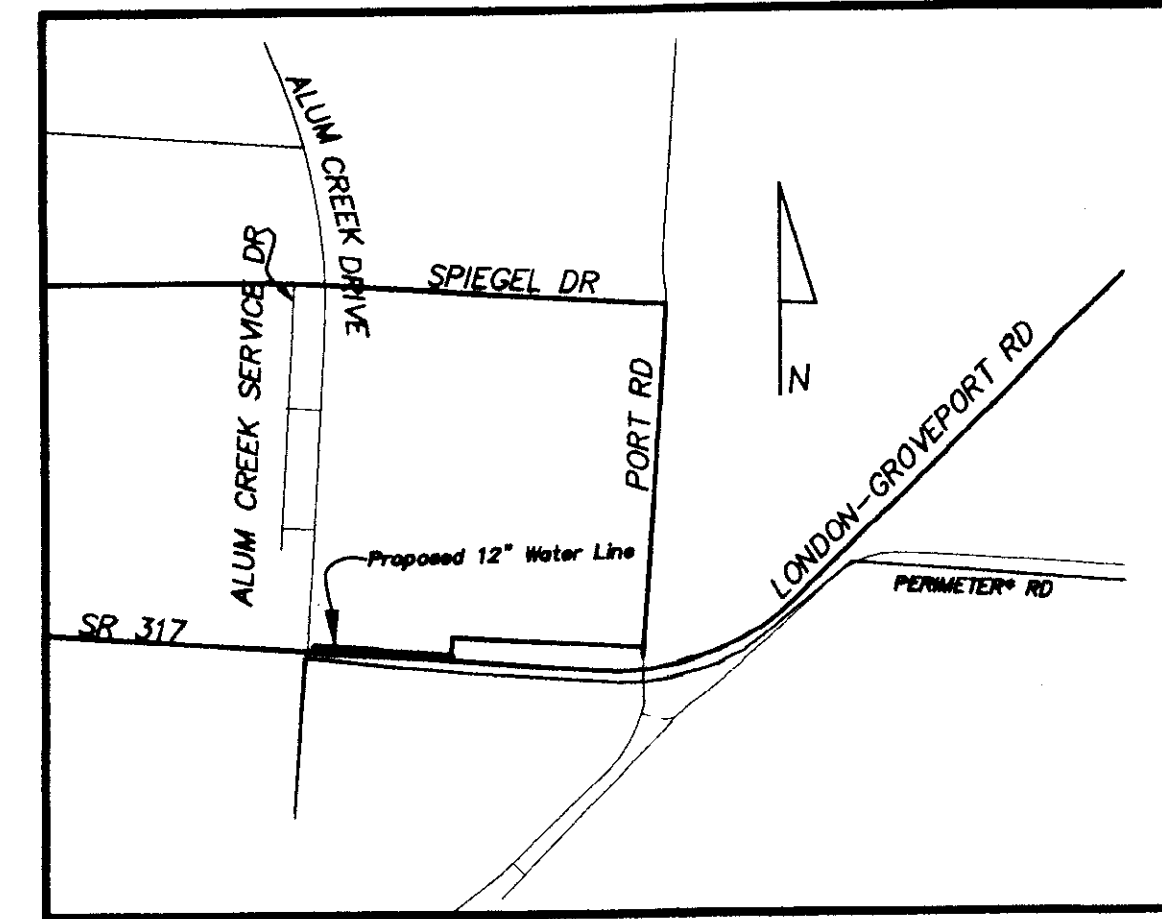
It is the intent of the Village of Groveport to keep inconvenience to the property owners to an absolute minimum. The work prescribed and described on the Plans and in the Specifications is situated within or contiguous to improved areas. All work is to continue on a uniform basis and on schedule, particularly the restoration and clean up of the disturbed areas after construction.

The tracking of mud, dirt, debris, or spillage of same upon streets or residential drives is prohibited and any such occurrence shall be cleaned up immediately by the Contractor. Failure to remove mud, dirt or debris, or spillage may result in the Village of Groveport providing that service and the cost of that service withheld from monies which may become due to the Contractor.

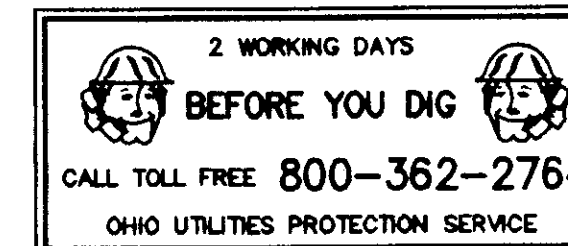
VILLAGE OF GROVEPORT, OHIO FROM ALUM CREEK DR TO 1130± FEET EAST SR 317 WATERLINE IMPROVEMENT ~ 2002



INDEX MAP
SCALE: 1"=100'



LOCATION MAP
NOT TO SCALE

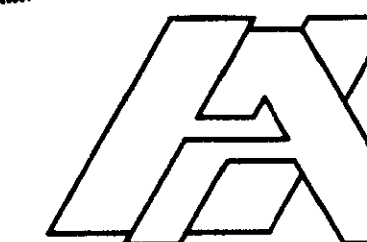
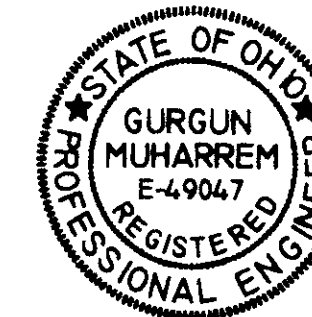


BENCH MARKS (NAVD 88 DATUM)

BENCH MARK No. 1
ALUMINUM CAP IN CONCRETE MONUMENT, AT CENTERLINE INTERSECTION
OF S.R. 317 AND ALUM CREEK DRIVE, ACCESS THROUGH F.C. ROAD
MONUMENT BOX.
ELEVATION=740.82
(29-NGVD 740.35)

BENCH MARK No. 2
R.R. SPK. IN POWER POLE N. SIDE OF S.R. 317, 3' WEST OF WEST
E/P OF DR. TO LITTLE BELL UNITED BAPTIST CHURCH.
ELEVATION=744.05
(29-NGVD 743.48)

BENCH MARK No. 3
W. BOLT OF 1ST F.H. N. OF S.R. 317, E. SIDE OF PORT ROAD.
ELEVATION=737.05
(29-NGVD 736.48)



PREPARED BY:
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Consulting Engineers & Surveyors
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Columbus, Ohio 43219
Tele.: (614) 252-0993
Fax: (614) 252-0444
E-MAIL: hock@asa.com

STANDARD DRAWINGS

THE STANDARD DRAWINGS LISTED ON THESE PLANS
SHALL BE CONSIDERED A PART THEREOF.

L-6306 L-6316 1441 DR. A
L-6309 L-6637
L-6310 L-7001
L-6311 L-7401
L-6312

Gurgun Muharrem
REGISTERED ENGINEER

APPROVED BY: **VILLAGE OF GROVEPORT**

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL
LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE
ENGINEER PREPARING THE PLAN.

John J. He
VILLAGE ADMINISTRATOR, VILLAGE OF GROVEPORT
Steve [Signature]
REVIEWED FOR THE VILLAGE OF GROVEPORT

FIRE CHIEF, MADISON TOWNSHIP

APPROVED BY: **CITY OF COLUMBUS**

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS
OF THE SEWER SERVICE AGREEMENT BETWEEN THE VILLAGE OF GROVEPORT AND THE CITY OF
COLUMBUS, ON NOVEMBER 9, 1970 AND ALL SUBSEQUENT AMENDMENTS THEREOF.

Jeff Hubbard
ADMINISTRATOR, DIVISION OF WATER
CITY OF COLUMBUS, OHIO

John R. Deutz, PE
DIRECTOR OF PUBLIC UTILITIES
CITY OF COLUMBUS, OHIO

TRENCHES

All trenches shall be backfilled or securely plated during non-working hours.

NON-RUBBER TIED VEHICLES

No non-rubber tied vehicles shall be moved on public streets. Exceptions may be granted by the Village of Groveport where short distances and special circumstances are involved. Granting of exceptions must be in writing, and any damage must be repaired by the Contractor to the satisfaction of the Village of Groveport.

SITE GRADING

The Contractor shall return all grades to approximate original contour, matching undisturbed areas, so as to maintain original drainage. Cost of this work shall be included in the price bid for the various items.

CONFLICTS

In all conflicts between water mains and gravity sewers, the water mains shall be lowered during construction. The Contractor shall expose utilities or structures as indicated sufficiently in advance of laying proposed water main to verify proposed location.

FIRE HYDRANTS

Conflict between hydrant leads and existing utilities shall be exposed prior to setting hydrant location. Hydrant lead shall be adjusted as required by Engineer. All fire hydrants shall be of the Village of Groveport Detail type.

TEMPORARY EROSION & SEDIMENT CONTROL

The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of Erosion & Sedimentation runoff from the site. Prior to construction operations in a particular area, all Sedimentation and Erosion control measures shall be in place. Field adjustments with respect to locations and dimensions may be made by the Engineer as required. Temporary Erosion Control features shall be acceptably maintained and shall be removed or replaced when directed by the Construction Manager at no additional cost to the Owner. All work shall be performed in accordance with item 207 of the Construction and Material Specifications and shall be paid under item 207.

ESTIMATE OF QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
252	5	C.Y.	Driveway Pavement Replacement Type III A
252	2	C.Y.	Driveway Pavement Replacement Type III C
801	1,130	Lin Ft	12" Ductile Iron Water Pipe & Fitting, CI 54
801	24	Lin Ft	6" Ductile Iron Water Pipe & Fitting, CI 53
802	2	Each	12" Valve & Appurtenances w/Heavy Duty Valve Boxes
802	3	Each	6" Valve & Appurtenances w/Heavy Duty Valve Boxes
803	1	Each	24"x12" Tapping Sleeve & Valve with Heavy Duty Valve Box
805	1	Each	3/4" Service Tap (Complete)
805	1	Each	1" Service Tap (Complete)
805	1	Each	1-1/2" Service Tap (Complete)
809	3	Each	Fire Hydrant & Appurtenances (Complete), Type A
Spec.	120	Lin Ft	Jack & Bore 12" Waterline
614	1	L.S.	MAINTAINING TRAFFIC - SEE SHY 3

These Quantities are the best estimate of the Engineer and should be verified by the Contractor when making a bid.

ALL WORK WITHIN FRANKLIN COUNTY ROAD RIGHT-OF-WAY IS SUBJECT TO THE INSPECTION AND APPROVAL OF THE FRANKLIN COUNTY ENGINEER. THE CONTRACTOR SHALL SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER, 870 DUBLIN ROAD, COLUMBUS, OHIO 43215, TWO (2) WORKING DAYS IN ADVANCE OF STARTING ANY WORK WITHIN ROAD RIGHT-OF-WAY.

APPROVED BY: **FRANKLIN COUNTY**

APPROVED FOR WORK WITHIN THE FRANKLIN COUNTY RIGHT-OF-WAY ONLY.

CHIEF DEPUTY COUNTY ENGINEER

DATE

COUNTY ENGINEER

DATE

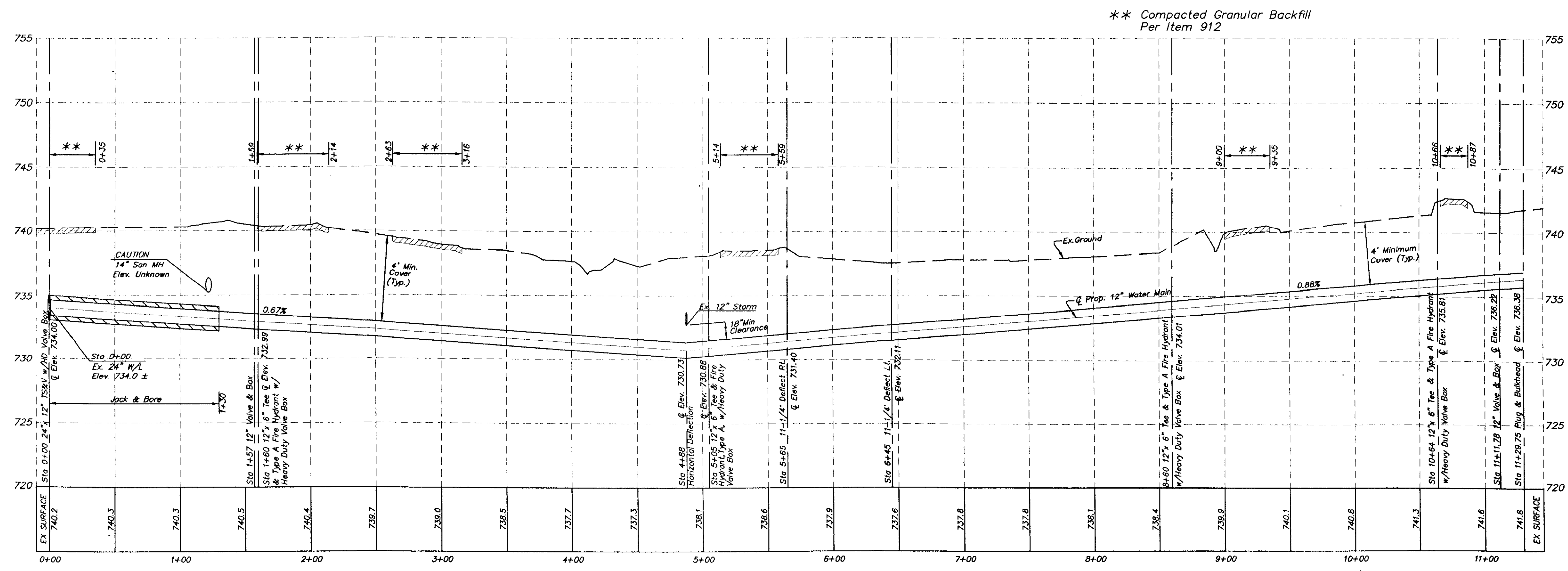
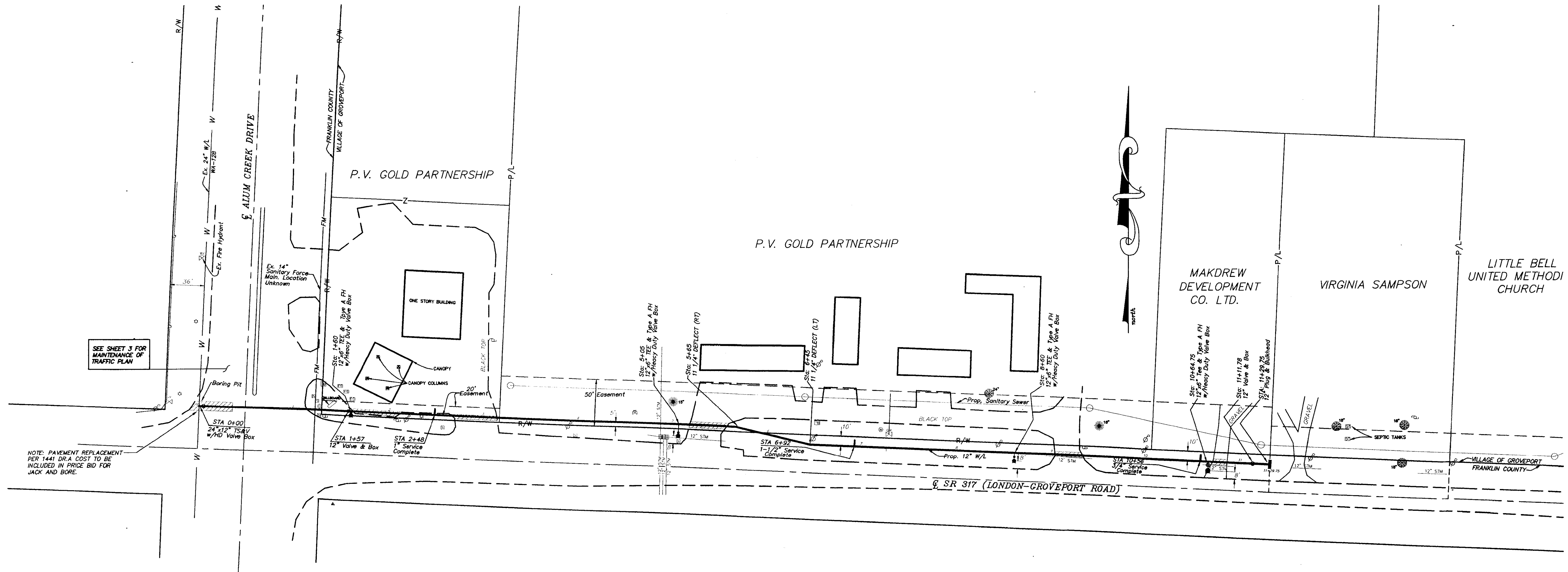
NOTE: ODOT PERMIT
ODOT PERMIT HAS TO BE OBTAINED BY THE OWNER FOR WORKING
IN THE R/W. COPIES CAN BE SUPPLIED IF NEEDED.

MAINTAINING MAIL SERVICE

The Contractor shall be responsible for maintaining mail service in the construction area. Prior to disturbing any mail boxes the Contractor shall contact the postal authorities and shall temporarily relocate mail boxes in accordance with the requirements therefore. The Contractor shall restore mail boxes to their original condition and location. Cost of same shall be included in the unit price bid for the various items.

CLEANING, DISINFECTING, AND CHLORINATION OF WATER MAINS

Each valved section of water line shall be cleaned and flushed in accordance with Section 801.11 and pressure tested in accordance with Section 801.12 of the CMS. Damage caused to existing lines, valves, and service connections shall be repaired by the Contractor at his own expense. The water-line shall be a poly pigged as per item 801.11 "Water Main Cleaning and Flushing". All waterlines shall be disinfected in accordance with Section 801.13 of the CMS. Special attention is directed to applicable sections of AWWA C-651, particularly for flushing (Section 5) and for chlorinating valves and for fire hydrants (Section 7).



2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

VILLAGE OF GROVEPORT

SR 317 (LONDON-GROVEPORT RD.)
WATER LINE EXTENSION
EAST OF ALUM CREEK DR.

PREPARED BY:
HOCKADEN AND ASSOCIATES, INC.
Consulting Engineers & Surveyors
883 North Cassady Avenue
Columbus, Ohio 43219
Tele: (614) 252-0993
FAX: (614) 252-0444
E-Mail: kziessler@hockaden.com

SCALE:
1" = 50' Horizontal
1" = 5' Vertical

2530 100 0+00 TO 11+29.75

ALIGN

2002 0020 010

2/3

