RESOLUTION NO. CR-10-02

A RESOLUTION TO AUTHORIZE THE CITY ADMINISTRATOR TO PARTICIPATE IN A COST-SHARING AGREEMENT FOR THE WHITE ROAD – KELNOR DRIVE SIDEWALK PROJECT WITH JACKSON TOWNSHIP

WHERE AS, the City of Grove City and the Township of Jackson have negotiated a cost-sharing agreement for the White Road – Kelnor Drive Sidewalk Project; and

WHEREAS, the estimated cost to be shared ($34,830.00) was appropriated in the 2002 budget sidewalk program fund in the General Fund Engineering Budget; and

WHEREAS, this joint project will provide a more efficient way for the City to resolve our responsibilities in the project area.

NOW, THEREFORE BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The City Administrator is hereby authorized to execute the White Road – Kelnor Drive Cost-Sharing Agreement as presented in the January 15, 2002 letter from Mike Lilly, Jackson Township Administrator.

SECTION 2. This resolution shall take effect at the earliest opportunity allowed by law.

Maria C. Klemack

Maria C. Klemack, President of Council

Cheryl L. Grossman

Cheryl L. Grossman, Mayor

Passed: 2-4-02
Effective: 2-4-02

Attest: Tami K. Kelly

Tami K. Kelly, CMC/AAE, Clerk of Council

I Certify that this resolution is correct as to form.

Thomas R Clark

Thomas R. Clark, Director of Law

CR-10-02

JACKSON TOWNSHIP
FRANKLIN COUNTY, OHIO

Clerk-Treasurer
Alma Bennett

Board of Trustees
Stephen J. Bowshier
David E. Burris
William F. Lotz, Sr.

Administrator
Michael J. Lilly

January 15, 2002

Mr. Robert Behlen
City of Grove City
P.O. Box 457
Grove City, OH 43123

Subject: **WHITE ROAD SIDEWALK PROJECT**

Dear Bob:

As per our earlier discussions, the Franklin County Engineers have prepared design plans for the construction of approximately 1,600' lineal feet of sidewalk along the north side of White Road and at the intersection of Kelnor Drive and White Road. The sidewalk project affects about 15 properties along the north side of White Road. However, as a result of annexations, four (4) of these properties are within the corporate limits of Grove City (see attached plans).

At this time, construction plans are completed and easements have been obtained from several property owners. The total estimated costs are $120,015.00 (as shown on the enclosed engineer's worksheet). We anticipate advertising for Public Bids in early February 2002 with a Bid Award date anticipated for February 26, 2002.

The design engineer for the project, Mr. Michael Keller, P.E. with the firm of EMH&T, Inc., has determined that approximately 29% of the total project costs amounting to a pre-bid estimate of $34,830.00 are within the corporate limits of the City of Grove City.

On behalf of the Jackson Township Board of Trustees, I respectfully request consideration by the City of Grove City for reimbursement of those costs to be expended by the Township for the sections of the sidewalk within the city limits. As estimated by EMH&T, those costs will be approximately 29% of the total project cost. If this reimbursement request requires actions before the Grove City Council, please let me know so that we can be present to personally discuss such business with the Council.

3756 Hoover Road, P.O. Box 517, Grove City, Ohio 43123
Phone: (614) 875-2742 Facsimile: (614) 871-6456

Thank you for your consideration, and please don't hesitate to call upon me should you have any questions.

Sincerely,

Michael Lilly
Township Administrator

Encl. Sidewalk Plans
Cost Estimate from EMH&T

cc: Board of Trustees
File

JACKSON TOWNSHIP, FRANKLIN COUNTY, OHIO

2001

WHITE ROAD SIDEWALK

GENERAL NOTES

SPECIFICATIONS
The current O.D.O.T. "Construction and Material Specifications" (CMSC), in force on the 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 specifications or by construction details set forth herein.

STANDARD DRAWINGS
The Standard Drawings listed in the plans shall be considered a part thereof.

STATIONING
All stationing refers to centerline of roadway stationing, unless noted otherwise.

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

EXPOSE
The Contractor shall expose the utility or structure indicated sufficiently in advance in order to verify the proposed location and elevation. Cost to be included in price bid for the various Items.

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. Jackson Township and/or Engineer assumes no responsibility as to the accuracy 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 price bid for the various Items.

OUPS NOTIFICATION
The Contractor shall cause notice to be given to the Ohio Utility Protection Service (phone 800-362-2764 toll free) and to Owners of Utility facilities shown on the plans 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.

The notification of affected utility owners in advance of construction and exact locations and protection of utilities are the responsibility of the Contractor. If damage is caused, the Contractor shall be responsible for repair of same and for any resulting contingent damage.

MAINTAINING DRAINAGE
The flow in all sewers, drains and watercourses encountered shall be maintained by the Contractor at his own expense, and whenever such watercourses and drains are disturbed or destroyed during the prosecution of the work they shall be restored by the Contractor at his own expense, unless specific provision is made in the Contract Documents for the measurement of any payment for such cost specific Items, to a condition satisfactory to the Engineer.

MONUMENTS
Any property corner pins or permanent survey markers disturbed during construction shall be reset by a registered surveyor at the Contractor's expense.

SAFETY REQUIREMENTS
The Contractor and Subcontractor shall be solely responsible for all 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 prior to construction.

MAINTAINING INGRESS AND EGRESS
The Contractor shall maintain all driveways in a passable condition at all times for the purpose of ingress and egress.

Ingress and egress shall be maintained at all times to public and private property.

SIDEWALK
All curb ramps and sidewalks shall be constructed in full compliance with the requirements of the Americans with Disabilities Act (ADA) of 1990, including all supplements and in accordance with the City of Columbus "ADA Curb Ramps Interim Design Guidelines" published August 23, 2000, including all supplements or replacement drawings issued thereto. Sidewalk shall be constructed with a cross slope not to exceed 3/16" per foot.

NON-RUBBER TIRE VEHICLES
No non-rubber tire vehicles shall be moved on County road. Exceptions may be granted by Franklin County where short distances and special circumstances are involved. Granting of exceptions must be in writing and any resulting damage must be repaired to the satisfaction of Franklin County.

EXISTING STORM SEWERS
All drain tiles, storm sewers, downspout pipes, and other drainage items disturbed, damaged or removed as a result of the Contractor's operations shall be replaced in kind or better. Cost of this work shall be included in the price bid for the various bid items unless otherwise specifically provided.

RIGHTS-OF-WAY
In addition to the direct requirements of the contract specifications, the Contractor shall observe and conform to the specific requirements of all rights-of-way including easements, court entries, rights of entry or action filed in court in accordance with the code of the applicable governing agency.

STORM WATER CONNECTIONS
No foundation drain, roof drain, or other storm water drain of any kind shall be connected into the sanitary sewer.

EXTRA COMPENSATION
No extra compensation will be paid the Contractor by reason of compliance with any of the requirements indicated on the plans, but payment shall be deemed to be included among the several items, as bid upon, unless otherwise specifically provided.

TRAFFIC
All traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the "Ohio Manual of Uniform Traffic Control Devices For Streets and Highways", copies of which are available from the Ohio Department of Transportation, Bureau of Traffic, 1980 West Broad, Columbus, Ohio 43223.

Type C Steady Burn Lights shall be used on all barricades, drums, and similar traffic control devices in use at night.

Contractor shall maintain one-way two-lane traffic on roads at all times, in accordance with page C-16 of the Ohio Manual. All Traffic lanes on White Road shall be open from 7 AM to 9 AM and 4 PM to 6 PM. A Franklin County Sheriff shall be substituted for such flagmen and shall be at the Contractor's expense. All costs to maintain traffic shall be included in the price bid for the various Items.

It shall be the responsibility of the Contractor to ensure all permanent pavement markings and signags are installed BEFORE TEMPORARY TRAFFIC CONTROLS ARE REMOVED.

No materials, including pipe, shall be stored within ten (10) feet of the edge of pavement of White Road nor within thirty (30) feet of the edge of pavement of any intersecting street, alley, or driveway. During non-working hours, storage of equipment shall comply with these same requirements. Compliance with these requirements shall not in any way relieve the Contractor of his legal responsibilities or liabilities for the safety of the public.

The roadway shall not be opened to traffic until permanent traffic controls are in place, or until temporary traffic controls, approved by the engineer, are installed. The Contractor assumes all liability for the premature removal of temporary traffic control.

The Contractor shall be responsible for the reinstallation and/or replacement of all permanent traffic control devices damaged or removed during the the construction. Permanent traffic control no longer in conflict with temporary traffic control shall be replaced immediately.

All Permanent traffic controls not in conflict with the temporary traffic controls shall be maintained throughout this project by the Contractor. The Contractor shall assume all liability for missing, damaged and improperly placed traffic control devices.

Cones are not approved for night use. All signs 8 sq. ft. (36" X 36") and over shall have yellow Type A low intensity flashing warning lights and 3 flags.

CONTINGENCY QUANTITIES
The Contractor shall not order materials or perform work for items designated by plan note to be used "as directed by the Engineer" unless authorized by the Engineer. The actual work locations and quantities used for such items must be authorized by Engineer and will be payed at the price bid for each item.

CATCH BASIN CASTINGS
All catch basin castings shall be oriented such that the openings of the casting are not parallel to the sidewalk.

SIGNS TO BE RELOCATED
All signs found to be in conflict with the construction of the sidewalk shall be relocated or raised as directed by the Engineer. Signs located adjacent to the sidewalk shall be raised to a minimum of seven feet between sidewalk and bottom of sign. The cost of this work shall be included in the price bid for various Items.

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 price bid for the various Items.

CONCRETE PIPE AND STRUCTURES
All concrete pipe and precast structures must be stamped or have identification noting that said precast concrete product has been inspected by the City of Columbus and meets their specification. Structures without proper identification will not be permitted for installation.

FAILURE TO COMPLETE ON TIME
If the Contractor fails to complete the work within the time or times allowed by the Contract, Jackson Township, if satisfied that the Contractor is carrying the work forward with reasonable progress, and he deems it to be in the best interest of the public, may allow him to continue in control of the work. It shall be necessary for the Contractor to make written application to Jackson Township in order to warrant such continuance. Payments to the Contractor for work performed and materials furnished will be made.

When the work is not completed within the time or times allowed by the Contract and the Contractor is permitted to remain in control, the work shall be prosecuted at as many different places, at such times, and with such forces as Jackson Township may request.

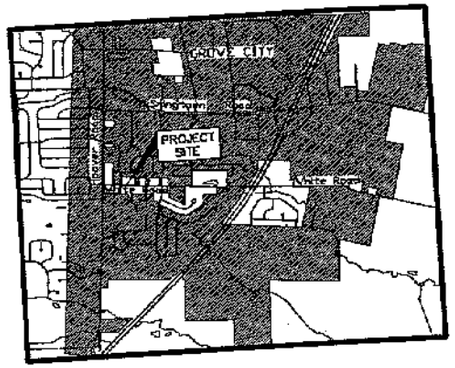
For each calendar day that any work shall remain uncompleted after the contract completion date or dates, the sum specified herein will be deducted from any money due the Contractor, not as a penalty but as liquidated damages; provided, however, that due account shall be taken of any adjustment of the completion date or dates granted under the provisions of section 108.06 of the State of Ohio Department of Transportation Construction and Material Specifications. In the event one or more interim completion dates are specified without specific separate liquidated damages, the amount set forth in the Schedule herein will separately apply to each interim date. In the event a period of liquidated damages for an interim completion date overlaps a subsequent completion date, the higher rate of liquidated damages will apply for the duration of the overlap.

Permitting the Contractor to continue and finish the work or any part of it after the date or dates fixed for its completion, or after the date or dates to which completion may be extended, will in no way operate as a waiver on the part of the Township of any of its rights under the contract.

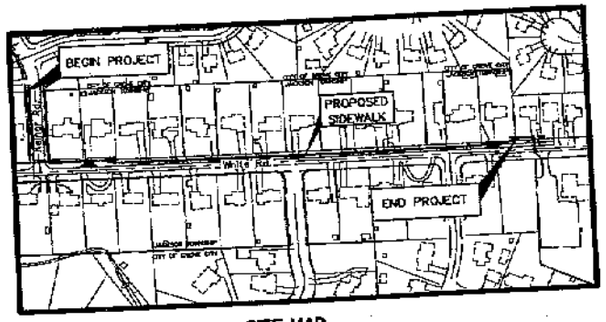
Jackson Township may waive such portions of the liquidated damages as may accrue after the work is in condition for safe and convenient use by the traveling public.

LANDSCAPING
All landscaping removed or damaged during the construction of this project shall be restored to original or better condition by the Contractor. This shall include, but not limit to, resodding replacing shrubbery in kind, replacing damaged fence, etc. The cost associated with all such work shall be included in the bid price for the various items unless otherwise specifically provided.

SIGNS, MAILBOXES, FENCES, ETC.
All signs, mailboxes, fences, roadside ditches, berms or other physical features disturbed or damaged during work under this Contract shall be restored to their original condition by the Contractor. Unless



LOCATION MAP
SCALE: 1" = 3000'



SITE MAP
SCALE: 1" = 200'

PREPARED BY
EVANS, MECHWART, HAMBLETON & TILTON, INC.
CONSULTING ENGINEERS & SURVEYORS
GAHANNA, OHIO

Registered Engineer _____ Date _____

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

APPROVED BY:

Township Administrator, Jackson Township _____ Date _____

Township Trustee, Jackson Township _____ Date _____

Township Trustee, Jackson Township _____ Date _____

Township Trustee, Jackson Township _____ Date _____

FOR FRANKLIN COUNTY:
Approved For Work Within The Franklin County Right Of Way Only

Franklin County Chief Deputy Engineer _____ Date _____

Franklin County Engineer _____ Date _____

FOR THE CITY OF GROVE CITY:

Mayor, City of Grove City _____ Date _____

City Administrator, City of Grove City _____ Date _____

Service Director, City of Grove City _____ Date _____

STANDARD DRAWINGS

O.D.O.T.
DM-4.3
DM-4.4
CB-1.2M

CITY OF COLUMBUS
2300 Dr. A 2180 Dr. A
2208 Dr. A AA-5149
2318 Dr. A AA-5150

BENCH MARKS

BENCH MARKS WERE ESTABLISHED FROM THE NGVD 29 DATUM

B.M. #1	Wingwall of culvert (AUAC 252-4.58), west side of Hoover, northeast corner of wingwall. Sta. 30+21±, 21'± Lt.	ELEV. 809.43
B.M. #2	R.R.S. at C/L intersection of Hoover Road & White Road. Sta. 35+00±	ELEV. 810.58
B.M. #3	P.K. nail, C/L of White Road. Sta. 4+85± (White Road)	ELEV. 815.21
B.M. #4	Pony Spike in S. Side of 2nd utility pole E. of intersection White Rd. and Hunter Creek Dr. N. side of White Rd. N 8932.21, E 4881.82	ELEV. 802.18
B.M. #5	Pony Spike in S. Side of 1st utility pole E. of intersection White Rd. and Hay Ct. N. side of White Rd. N 8008.04, E 4375.97	ELEV. 807.14

ESTIMATE OF QUANTITIES

ITEM	REF.	QUANT.	UNIT	DESCRIPTION
1	201	–	L.S.	CLEARING & GRUBBING
2	203	140	C.Y.	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION
3	207	–	L.S.	EROSION AND SEDIMENT CONTROL
4	253	44	S.Y.	TEMPORARY PAVEMENT REPLACEMENT
5	603	1,014	L.F.	12" CONDUIT TYPE C, 706.02 or 707.33
6	603	108	L.F.	15" CONDUIT TYPE C, 706.02
7	604	10	EACH	CATCH BASIN
8	608	6,378	S.F.	4" SIDEWALK
9	653	150	C.Y.	TOP SOIL FURNISHED AND PLACED
10	659	2,000	S.Y.	SEEDING AND MULCHING
11	912	15	C.Y.	COMPACTED GRANULAR BACKFILL
12	SPEC.	370	S.Y.	6" CONCRETE DRIVEWAY APPROACH AND WALK
13*	SPEC.	14	EACH	4" DRAINAGE PIPE, AS PER PLAN
14*	SPEC.	12	EACH	12" X 4" WYES
15*	SPEC.	2	EACH	15" X 4" WYES

QUANTITIES CALCULATED BY: MDK QUANTITIES CHECKED BY:

* Denotes Contingency Quantities

JACKSON TOWNSHIP
Franklin County, Ohio

ENGINEER'S ESTIMATE OF PROBABLE COSTS FOR WHITE ROAD SIDEWALK DECEMBER 2001

1	201	Clearing and Grubbing	-	L.S.	$1,000	$1,000
2	203	Excavation including embankment	140	C.Y.	$20	$2,800
3	207	Erosion and Sediment Control	-	L.S.	$750	$750
4	253	Temporary Pavement Replacement	44	S.Y.	$25	$1,100
5	603	12" Conduit Type C	1,014	L.F.	$30	$30,420
6	603	15" Conduit Type C	108	L.F.	$35	$3,780
7	604	Catchbasin	11	Each	$1,150	$12,650
8	608	4" Sidewalk	6,378	S.F.	$5	$31,890
9	653	Topsoil Furnished and Placed	55	C.Y.	$50	$2,750
10	659	Seeding and Mulching	2,000	S.Y.	$2	$4,000
11	912	Compacted Granular Backfill	45	C.Y.	$35	$1,575
12	Spec.	4" Drainage Pipe, Per Plan*	14	Each	$250	$3,500
13	Spec.	6" Concrete Driveway Approach and Walk	432	S.Y.	$50	$21,600
14	Spec.	12" x 4" Wyes*	12	Each	$150	$1,800
15	Spec.	15" x 4" Wyes*	2	Each	$200	$400

* = Designates Contingency Items

TOTAL ESTIMATED CONSTRUCTION COST = $120,015

12/17/01
11:37 AM

costestimate-121701.xls
construction cost estimate

JACKSON TOWNSHIP
Franklin County, Ohio

ENGINEER'S ESTIMATE OF PROBABLE COSTS FOR WHITE ROAD SIDEWALK DECEMBER 2001

1	201	Clearing and Grubbing	-	L.S.	$300	$300
2	203	Excavation including embankment	45	C.Y.	$20	$900
3	207	Erosion and Sediment Control	-	L.S.	$200	$200
4	253	Temporary Pavement Replacement	0	S.Y.	$25	$0
5	603	12" Conduit Type C	284	L.F.	$30	$7,920
6	603	15" Conduit Type C	10	L.F.	$35	$350
7	604	Catchbasin	3	Each	$1,150	$3,450
8	608	4" Sidewalk	2,493	S.F.	$5	$12,465
9	653	Topsoil Furnished and Placed	11	C.Y.	$50	$550
10	659	Seeding and Mulching	815	S.Y.	$2	$1,630
11	912	Compacted Granular Backfill	9	C.Y.	$35	$315
12	Spec.	4" Drainage Pipe, Per Plan*	3	Each	$250	$750
13	Spec.	6" Concrete Driveway Approach and Walk	111	S.Y.	$50	$5,550
14	Spec.	12" x 4" Wyes*	3	Each	$150	$450
15	Spec.	15" x 4" Wyes*	0	Each	$200	$0

CITY OF GROVE CITY'S PORTION = $34,630
(Sidewalk along Kelsey and Infront of GO properties on White Road)

1	201	Clearing and Grubbing	-	L.S.	$700	$700
2	203	Excavation including embankment	95	C.Y.	$20	$1,900
3	207	Erosion and Sediment Control	-	L.S.	$550	$550
4	253	Temporary Pavement Replacement	44	S.Y.	$25	$1,100
5	603	12" Conduit Type C	750	L.F.	$30	$22,500
6	603	15" Conduit Type C	98	L.F.	$35	$3,430
7	604	Catchbasin	8	Each	$1,150	$8,200
8	608	4" Sidewalk	3,885	S.F.	$5	$19,425
9	653	Topsoil Furnished and Placed	44	C.Y.	$50	$2,200
10	659	Seeding and Mulching	1,185	S.Y.	$2	$2,370
11	912	Compacted Granular Backfill	36	C.Y.	$35	$1,260
12	Spec.	4" Drainage Pipe, Per Plan*	11	Each	$250	$2,750
13	Spec.	6" Concrete Driveway Approach and Walk	321	S.Y.	$50	$16,050
14	Spec.	12" x 4" Wyes*	9	Each	$150	$1,350
15	Spec.	15" x 4" Wyes*	2	Each	$200	$400

JACKSON TOWNSHIP'S PRORTION = $65,185
(Sidewalk and 12" Drain Tile along White Road)

* = Designates Contingency Items

TOTAL ESTIMATED CONSTRUCTION COST = $120,015

12/17/01
11:44 AM

costestimate-121701.xls
cost breakdown

Kelnor Drive

White Road

Milligan Drive

CITY OF GROVE CITY
JACKSON TOWNSHIP

CAUTION
O.S.H.A. CLEARANCE REQUIREMENTS TO BE MAINTAINED DURING CONSTRUCTION BETWEEN EQUIPMENT AND OVERHEAD UTILITY LINES

MATCH LINE STA. 16+00

*Temporary Pavement will be installed as an apron for resident. Concrete apron will be installed with road widening project (by others).

8" Concrete Driveway Approach & Walk

4" Sidewalk

Use Item 912 Compacted Granular Backfill

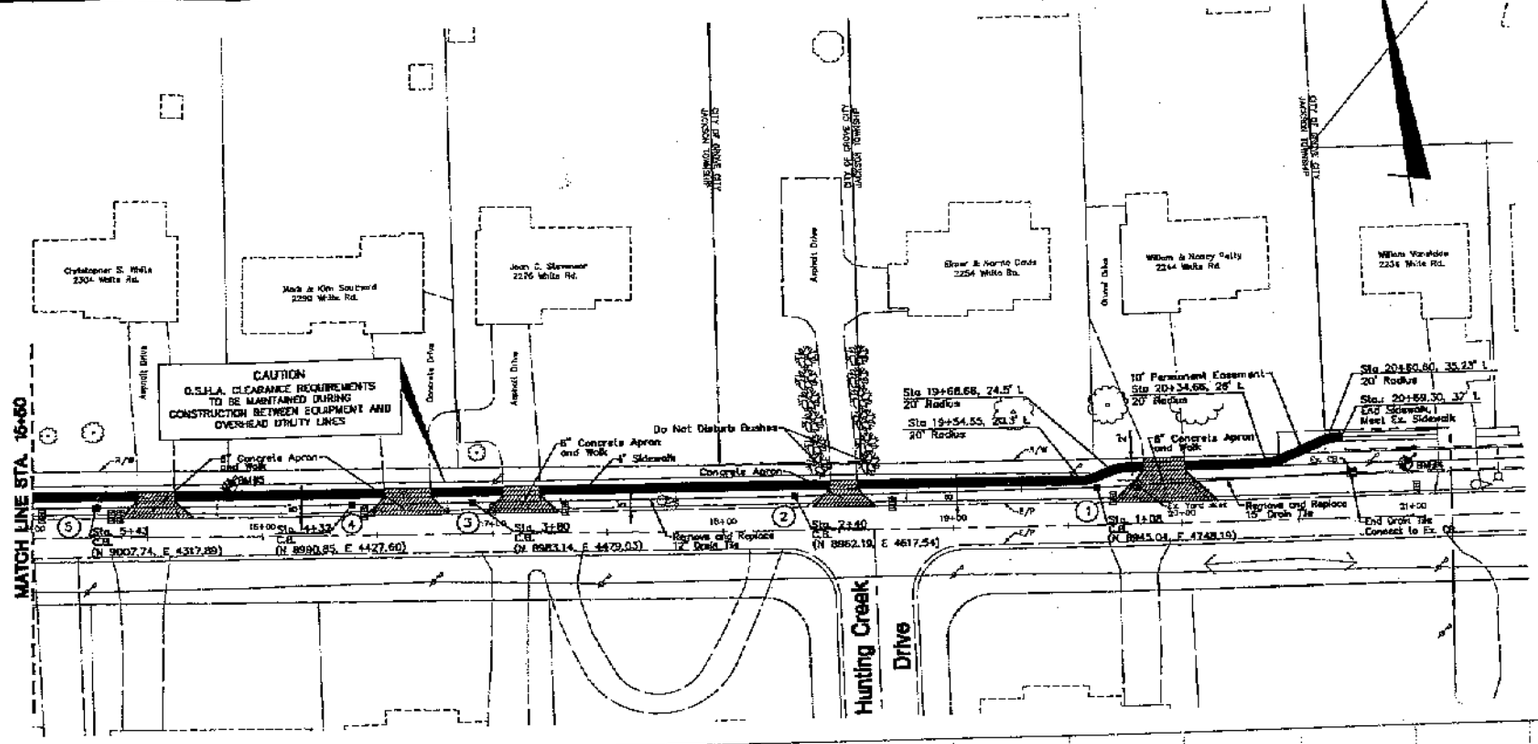
84' ~ 12" @ 1.0%
115' ~ 12" @ 1.0%
90' ~ 12" @ 1.0%
65' ~ 12" @ 1.0%
93' ~ 12" @ 1.0%
158' ~ 12" @ 1.0%

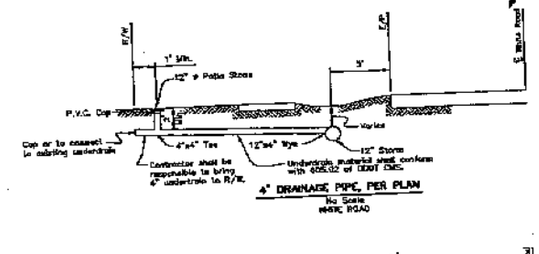
NOTE: Stationing for drain tile refers to drain tile alignment.

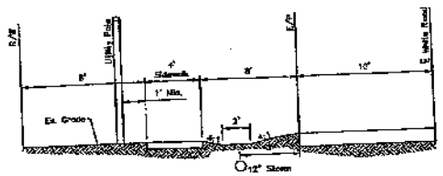
2 WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

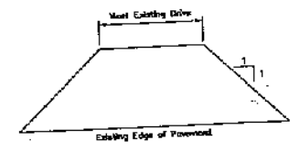
FRANKLIN COUNTY, OHIO
TRANSPORTATION SYSTEM IMPROVEMENTS
WHITE ROAD SIDEWALK
2001
PLAN & PROFILE

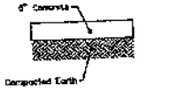
SCALE: Horiz.: 1"=30' Vert.: 1"=5'



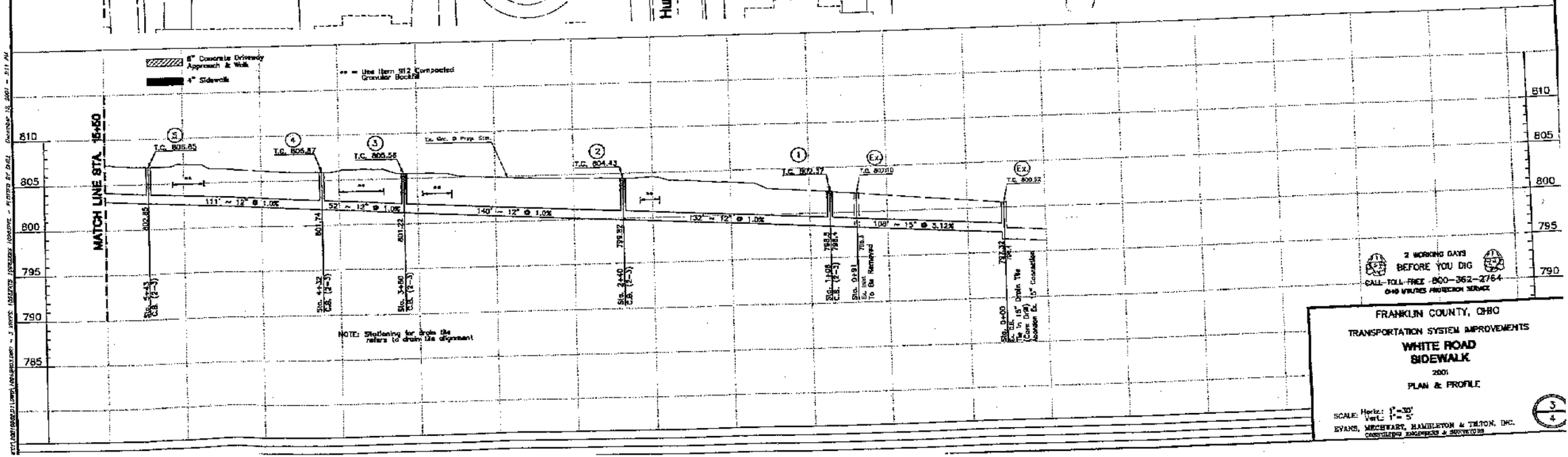








6" CONCRETE DRIVEWAY APROACH AND WALK CROSS-SECTION
(as per Columbus Standard Drawing 2200 Dr. A)



FRANKLIN COUNTY, OHIO

TRANSPORTATION SYSTEM IMPROVEMENTS

WHITE ROAD SIDEWALK

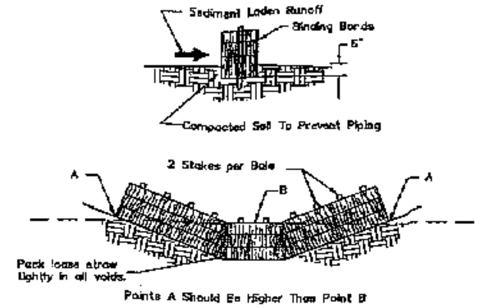
2001

PLAN & PROFILE

SCALE: Horiz.: 1"=30' Vert.: 1"= 5'

EVANS, MECHWART, HAMBLETON & TILTON, INC.
CONSULTING ENGINEERS & SURVEYORS

3/4



STRAW BALE BARRIER FOR
DRAINAGE WAY OR SHEET FLOW

Channel Flow Applications
Bales shall be placed in a single row, lengthwise, oriented perpendicular to the contour, with ends of adjacent bales tightly abutting one another.

The remaining steps for installing a straw bale barrier for sheet flow applications apply here, with the following addition:

The barrier shall be extended to such a length that the bottoms of the end bales are higher in elevation than the top of the lowest middle bale to assure that sediment-laden runoff will flow either through or over the barrier but not around it.

NOTE: Hay bales may be used in place of straw bales.

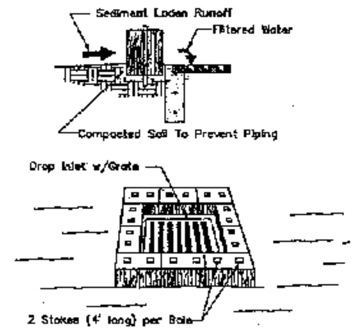
Maintenance
Straw bales shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales.

Necessary repairs to barriers or replacement of bales shall be accomplished promptly.

Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier.

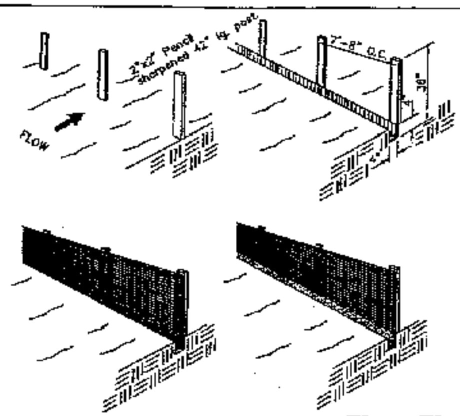
Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.



STRAW BALE DROP INLET
SEDIMENT FILTER DETAIL

STRAW BALE DROP INLET STRUCTURE
Bales shall be either wire-bound or string-tied with the bindings oriented around the sides rather than over and under the bales.
Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together.
The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of a bale to a minimum depth of 4-inches. After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier.
Each bale shall be securely anchored and held in place by at least two stakes or rebars driven through the bale.
Loose straw shall be wedged between bales to prevent water from entering between bales.
NOTES: Hay bales may be used in place of straw bales.

Maintenance
Straw bale barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales.
Necessary repairs to barriers or replacement of bales shall be accomplished promptly.
Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reach approximately one-half the height of the barrier.
Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.



SEDIMENT BARRIER FENCE DETAIL

—SBF— —SBF— Standard Symbol

Silt Fence: This sediment barrier utilizes standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected.

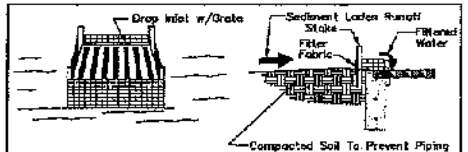
1. The height of a silt fence shall not exceed 36-inches (higher fences may impound volumes of water sufficient to cause failure of the structure).
2. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed.
3. Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 12-inches). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 8 feet.
4. A trench shall be excavated approximately 4-inches wide and 4 inches deep along the line of posts and upslope from the barrier.
5. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1-inch long, tie wires or hog rings. The wire shall extend into the trench a minimum of 2-inches and shall not extend more than 36-inches above the original ground surface.
6. The standard strength filter fabric shall be stapled or wired to the fence, and 8-inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36-inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
7. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item No. 6 applying.
8. The trench shall be backfilled and soil compacted over the filter fabric.
9. Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

Maintenance
Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.

Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.

Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.

Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



Specific Application
This method of inlet protection is applicable where the inlet drains a relatively flat area (slopes no greater than 5 percent) where sheet or overland flows (not exceeding 0.5 cfs) are typical. This method shall not apply to inlets receiving concentrated flows, such as in street and highway medians.

FILTER FABRIC DROP INLET
SEDIMENT FILTER DETAIL
(Alternate)

The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into stormwater runoff. Sediment-laden water shall be filtered through the use of sediment filtering fences or sedimentation basins prior to discharge to surface waters. Concrete trucks will not be allowed to wash out or discharge surplus concrete into or along-side rivers, streams, and creeks or into natural or man-made channels or swales leading thereto. Concrete truck wash water and surplus concrete shall be confined to areas approved by the Engineer; after solidifying, these waste materials shall be removed from the site.

The Contractor shall be responsible to have the current "Plan", including this narrative, immediately available or posted on the site.

The Contractor shall be responsible to delineate, on the "Plan", all erosion and sedimentation control work actually performed; and to amend the "Plan" as required as a result of his work.

The Contractor shall be responsible to perform the required maintenance procedures and document them as required by the General permit and the "Plan".

Details have been shown on the plan in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternate details may be found in the SCS Manual "Water Management and Sediment Control for Urbanizing Areas". The Contractor shall be solely responsible for providing necessary and adequate measures for proper control for erosion and sediment runoff from the construction areas, subject to approval from the Engineer.

CONTRACTOR RESPONSIBILITY: Details have been provided on the plans in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternate details may be found in the S.C.S. Manual "Water Management and Sediment Control for Urbanizing Areas." The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Storm Water Discharges Associated with Construction Activity

Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustments with respect to locations and dimensions may be made by the Engineer.

The Contractor shall place inlet protection for the erosion control immediately after construction of the catch basins or inlets which are not tributary to a sediment basin or dam.

It may become necessary to remove portions of the barrier during construction to facilitate the grading operations in certain areas. However, the barrier shall be in place in the evening or during any inclement weather.

The limits of seeding and mulching are as defined by the permanent and (temporary) construction easements. All areas not designated to be seeded shall remain under natural ground cover. These areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense.

Temporary Seeding: Any area which will be left dormant (undisturbed) for more than 45 days shall be seeded within 7 days of terminated work. If permanent seeding is not applied at this time, temporary seeding shall be done which shall consist of fertilizing, watering and seeding at the rates indicated under Item 659. Seed shall be oats from December 1 to June 1 and annual rye from June 1 to December 1.

Permanent seeding shall be done between March 15 and September 15. If seeding is done between September 15 and March 15, it shall be classified as "Temporary Seeding." Permanent seed shall be 40% Kentucky Bluegrass, 40% Creeping Red Fescue, 20% Annual Ryegrass. Permanent seeding shall consist of fertilizing, watering and seeding rates indicated under Item 659.

Rates of application of Item 659:

Seed:	2 lbs./1,000 Sq.Ft.
Fertilizer:	20 lbs./1,000 Sq.Ft.
Mulch: (Straw or Hay)	2 tons/acre

MAINTENANCE: It is the Contractor's responsibility to maintain the sediment control features used on this project. The site shall be inspected periodically and within 24 hours of a significant rainfall. Records of these inspections shall be kept and made available to jurisdictional agencies if requested. Any sediment or debris which has reduced the efficiency of a structure shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace at no additional cost to Village of Groveport. responsibility.

Not all details shown on this sheet may be required for this project.

SCHEDULE: The Contractor shall provide a schedule of operations to Jackson Township. Sedimentation and erosion control features shall be placed in accordance with this schedule. The Contractor shall be responsible to ensure that off-site tracking of sediments by vehicles and equipment is minimized. Construction of stabilized construction entrances are a part of that

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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