

BENCHMARK 'B': TOP OPERATING NUT OF HYDRANT LOCATED APPROX. 160' N. OF THE PROP. BUILDING ADDITION

ELEV. = 1029.15

BENCHMARK 'C': TOP OPERATING NUT OF HYDRANT LOCATED APPROX. 130' S.E. OF THE EX. S.E. BUILDING CORNER ELEV. = 1051.58

GENERAL NOTES:

- 1.) ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ODOT ITEMS 201 AND 202.
- 2.) UTILITIES REPRESENTED HEREON ARE BY SURVEY OF VISIBLE FEATURES AND AMENDED BY AVAILABLE PUBLIC RECORD INFORMATION.
- 3.) THE EXISTING WATERLINE CALLED OUT TO BE ABANDONED IN KEYNOTE 11 SHALL REMAIN IN SERVICE UNTIL SUCH TIME FRESH MARK INSTALLS AN ALTERNATE LINE TO SERVICE THE WATER TREATMENT
- 4.) FOR STORM SEWER AND SANITARY SEWER DATA SEE SHEET C-101B.

KEYED NOTES:

- 1. 6" SANITARY SEWER SERVICE LATERAL, F/L AT 5' OUTSIDE OF BLDG. = 1037.00. SEE GENERAL NOTE 21
- 2. CONNECT THE PROPOSED SANITARY LATERAL ONTO THE PROPOSED SAN. SEWER WITH A PRE MANUFACTURED WYE CONNECTION.
- 3. DOWNSPOUT LATERAL SYSTEM, 8" UNLESS NOTED OTHERWISE. INSTALL AT A MINIMUM RATE OF 1.00%. SEE BUILDING PLANS FOR ACTUAL DOWNSPOUT LOCATIONS. TIE ONTO THE PROPOSED STORM SEWER WITH A PRE MANUFACTURED WYE WHERE APPLICABLE.
- 4. CONCRETE PAVEMENT, PER CONCRETE PAVEMENT SECTION, SEE SHEET C-102.
- ASPHALT DRIVE, PER TYPICAL ASPHALT SECTION, SEE SHEET C-102.
- SAW CUT THE EXISTING PAVEMENT FOR PROPOSED STORM AND REPLACE, SEE PAVEMENT REPLACEMENT DETAIL ON SHEET C-102.
- 7. GUARDRAIL, TYPE 5 WITH A TYPE T ANCHOR ASSEMBLY AS PER ODOT STANDARD CONSTRUCTION DRAWING GR-2.1 AND GR-4.2, RESPECTIVELY, AND PER ODOT ITEM 606.
- 8. 8" WATER SERVICE LINE WITH A MINIMUM OF 4.5' OF COVER. INSTALL PER AQUA OHIO INC.
- 9. STEEL BOLLARDS FILLED WITH CONCRETE. SEE BOLLARD DETAIL ON SHEET C-102, TYPICAL OF 3.
- 10. 8" 45' BEND PER AQUA OHIO INC. SPECIFICATIONS.
- 11. PLUG THE EXISTING WATERLINE JUST NORTH OF THE EXISTING VALVE LOCATED IN HARCREST ST. (THE EXTENSION OF) JUST SOUTH OF THE PROPOSED EAST BUILDING ADDITION, AND THEN ABANDON WATERLINE. (SEE GENERAL NOTE 3)
- 12. STORM WATER MANAGEMENT BASIN AND SEDIMENT BASIN. SEE SHEETS C-103 AND C-202.
- 13. OVERHEAD ELECTRIC LINES TO BE RELOCATED UNDERGROUND AND POWER POLES REMOVED BY OTHERS.
- 14. PLUG THE SOUTH END OF THE EXISTING 48" CULVERT WITH AN ODOT APPROVED PRECAST STOPPER.
- 15. REMOVE THE EXISTING POST INDICATOR VALVE, TIE INTO AND EXTEND THE EXISTING 8" FIRE LINE.
- 16. 8"x8" TEE PER AQUA OHIO INC. SPECIFICATIONS.
- 17. FIRE HYDRANT COMPLETE PER AQUA OHIO INC. SPECIFICATIONS.
- 18. POST INDICATOR VALVE PER AQUA OHIO INC. SPECIFICATIONS.
- 19. WALL MOUNTED SIAMESE CONNECTION PER AQUA OHIO INC. SPECIFICATIONS.
- 20. UTILITY POLE & PEDESTAL TO BE RELOCATED BY UTILITY OWNER.
- 21. GRAVEL ACCESS DRIVE, PER TYPICAL GRAVEL SECTION, SEE SHEET C-102
- 22. THE CONTRACTOR SHALL LOCATE THE EXISTING 12" STORM SEWER AND TIE IT INTO THE PROPOSED 15" STORM SEWER (DP4) WITH A PRE-MANUFACTURED WYE.
- 23. IF ANY OF THE EXISTING 8" STORM SEWERS THAT FLOW INTO THE MANHOLE THAT IS CALLED OUT BY THIS KEYNOTE IS IN CONFLICT WITH ANY OF THE PROPOSED UTILITIES, THE CONTRACTOR SHALL ABANDON THE STORM SEWER AND TIE IT INTO THE PROPOSED STORM SEWER WITH A PRE-MANUFACTURED WYE.
- 24. CHAIN LINK FENCE. SIZE AND STYLE SHALL BE PER THE OWNERS DIRECTION.

STRUCTURA

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8/4/2009

12-03-09 12-17-09 02-02-10

Project Name

description

SITE GEOMETRIC PLAN

File Number

09126 | Raw Bacon Addition

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AVENUE NORTH

CANTON, OHIO

44714

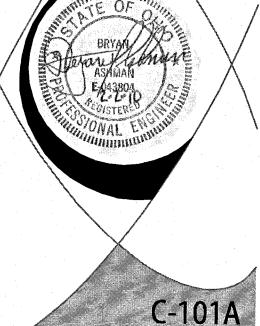
PLANS PREPARED BY:

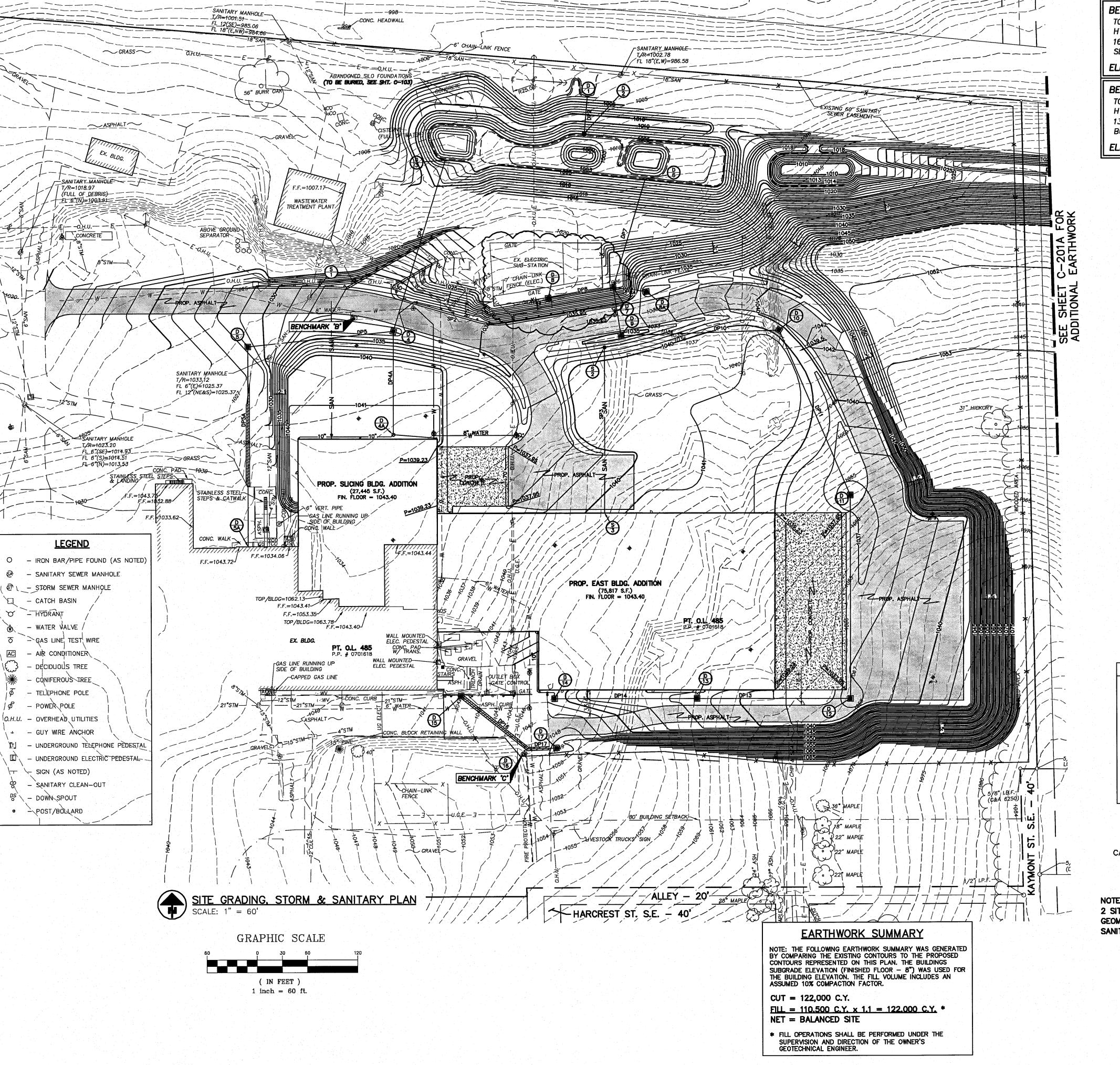
COOPER & ASSOCIATES, LLP ENGINEERS AND SURVEYORS

BRYAN J. ASHMAN

JEROLD E. GEIB

PHONE (330) 452-5731 FAX No.(330) 452-9110





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BENCHMARK 'C': TOP OPERATING NUT OF HYDRANT LOCATED APPROX. 130' S.E. OF THE EX. S.E. BUILDING CORNER

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PROPOSED SANITARY DATA

S1: EX. MANHOLE T/RIM=1031.63 **PROP. F/L 8"(E)=1024.38** F/L 12"(N,S)=1023.88

SP2: 357 L.F. 8" SAN SEWER R=1.85% S2: ODOT M.H. No. 3 T/RIM = 1037.00F/L 8"(W.S)=1031.00

SP3: 208 L.F. 8" SAN SEWER R=2.40% S3: CLEAN-OUT

(SEE ARCHITECTURAL PLANS) T/RIM=1041.25 F/L 8"(N,S)=1036.00

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CALL TOLL FREE 800-362-2764 OHIO UTILITIES PROTECTION SERVICE

NOTE: GENERAL REVISION 12/03/09 CREATED 2 SITE PLAN SHEETS ISOLATING DEMOLITION & GEOMETRIC ITEMS FROM GRADING, STORM & SANITARY ITEMS FOR BETTER CLARITY.

1359 MARKET **AVENUE NORTH**

CANTON, OHIO

PLANS PREPARED BY: **COOPER & ASSOCIATES, LLP**

ENGINEERS AND SURVEYORS BRYAN J. ASHMAN JEROLD E. GEIB

PHONE (330) 452-5731

PROPOSED STORM DATA

DP2: 43 L.F. 24" STM SEWER R=2.33%

DP4: 213 L.F. 15" STM SEWER R=7.86%

DP4A: 123 L.F. 10" STM SEWER R=5.69%

DP5: 175 L.F. 15" STM SEWER R=1.00%

DP5A: 236 L.F. 12" STM SEWER R=2.86%

F/L-24"(SW)-1005.47

DP7: 134 L.F. 24" STM SEWER R=11.59%

DP8: 78 L.F. 8" STM SEWER R=1.28%

DP8A; 40 L.F. 12" STM SEWER R=21.25%

DP9: 58 L.F. 24" STM SEWER R=8.62%

DP10: 188 L.F. 24" STM SEWER R=1.84%

DP11: 213 L.F. 24" STM SEWER R=1.20%

DP12: 240 L.F. 24" STM SEWER R=0.50%

DP13: 183 L.F. 15" STM SEWER R=1.66%

DP14: 170 L.F. 15" STM SEWER R=1.47%

DP16: 102 L.F. 12" STM SEWER R=6.70%

DP17: 34 L.F. 12" STM SEWER R=1.47%

D4A: NYLOPLAST 18" DRAIN BASIN BY HANCOR (W/ STANDARD GRATE)

D1: HEADWALL

F/L 24"(S)=1001.50

D2: ODOT C.B. 2-3

F/L 4''(S)=1003.00

D3: HEADWALL

F/L 24"(N)=1002.50

F/L 15"(S)=1004.50

D4: ODOT M.H. No. 3 (WITH OPEN GRATE)

T/GRATE=1032.00

F/L 10"(S)=1029.50

F/L 15"(WN)=1021.25

T/GRATE=1041.25 F/L 8"(E)=1036.67 F/L 10"(W,N)=1036.50

D5: ODOT C.B. 2-2B T/GRATE=1028.00 F/L 12"(S)=1023.25 F/L 15"(E)=1023.00

D5A: CLEAN-OUT

T/RIM=1033.65 F/L 12"(S,N)=1030.00

D7: ODOT C.B. 2-3 T/GRATE=1024.50 F/L 8"(W)=1022.00 F/L 12"(E)=1021.50 F/L 24"(S,NE)=1021.00

D8: ODOT C.B. 2-2B

D8A: ODOT C.B. 2-2A T/GRATE=1035.00

WINDOW (E)=1034.50

F/L 12"(W)=1030.00

D9: ODOT M.H. No. 3

(INTERCEPT EXIST. DRAIN)

F/L 24"(N,E)=1026.00

(WITH OPEN GRATE)

F/L 24"(W,SE)=1029.45

D11: ODOT C.B. 2-3

D12: ODOT C.B. 2-3

T/GRATE=1037.50

F/L 15"(W)=1033.96 F/L 24"(N)=1033.21

D13: ODOT C.B. 2-2B T/GRATE=1041.50

F/L 10"(N)=1037.42 F/L 15"(E,W)=1037.00

D14: ODOT C.B. 2-2B T/GRATE=1045.00

F/L 10"(N)=1039.50 F/L 15"(E)=1039.50

F/L 12"(SE)=1038.00 EX. F/L 15"(E,W)=1037.07

D16: EX. CATCH BASIN

D17: ODOT C.B. 2-2B

T/GRATE=1048.00

PROP. F/L 12"(E)=1045.00 F/L 12"(NW)=1044.83

T/GRATE=1048.33

D15: ODOT 2-2B T/GRATE=1042.00

F/L 24"(NW,S)=1032.01

T/GRATE=1036.00

T/GRATE=1039.00

(WITH OPEN GRATE)

T/GRATE=1034.00 F/L 8"(S)=1028.0±

T/GRATE=1025.00 F/L 8"(E)=1023.00

D6: HEADWALL

(SEE ARCHITECTURAL PLANS)

(ODOT HW-2.1 OR HW-2.2)

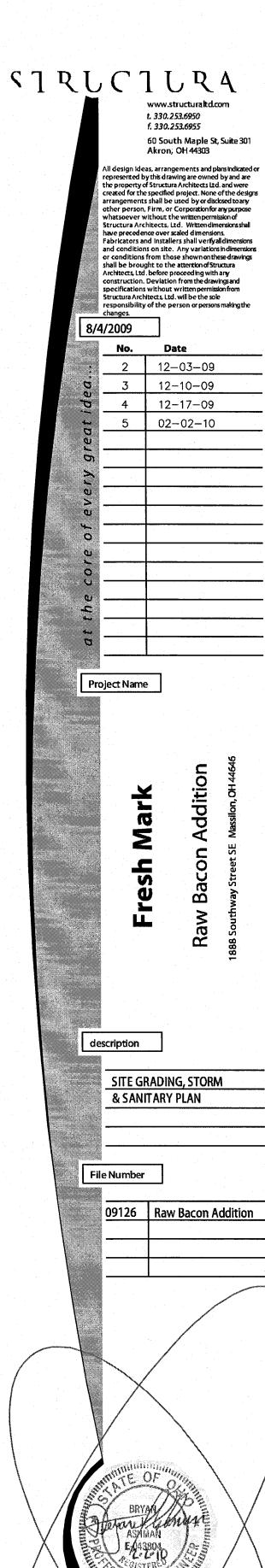
(CONTROL STRUCTURE) T/GRATE=1008.00

(ODOT HW-2.1 OR HW-2.2)

F/L 6" WINDOW (S)=1007.08

F/L 15"(ORIFICE)(S)=1005.50 F/L 2.5"(ORIFICE)(S)=1003.00

(ODOT HW-2.1 OR HW-2.2)



C-101B

F/L 12"(W)=1045.50

FAX No.(330) 452-9110

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES OF THE CITY OF
- SITE WORK SPECIFICATIONS ALL ITEM NUMBERS REFER TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2008 EDITION. ALL EQUIPMENT, MATERIAL AND WORKMANSHIP SHALL BE PERFORMED ACCORDING TO THESE SPECIFICATIONS AND ANY OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS (SCD) REFERENCED ON THE PLANS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT.
- THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 ORC. LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AKRON, OHIO 44308

PH: (330) 384-3947

ATT: JIM SIEGMUND

50 W. BOWERY STREET, 6TH FLOOR

TELEPHONE:

FIRST ENERGY 1910 W. MARKET, BLDG. 1 AKRON, OHIO 44314 ATT: KEN DOWNS

PH: (330) 384-4839 CABLE TELEVISION: MASSILLON CABLE TV

814 CABLE CT. N.W. MASSILLON, OHIO 44648 ATT: JEFF CAMPBELL PH: (330) 833-4134

DOMINION EAST OHIO 7015 FREEDOM AVE. N.W. NORTH CANTON, OHIO 44720 ATT: HARVEY YERGIN PH: (330) 266-2049

AQUA OHIO INC. 870 3RD STREET N.W. MASSILLON, OHIO 44647 ATT: DON SNYDER PH: (330) 832-5764 EXT, 205 SANITARY SEWER: CITY OF MASSILLON ENGINEERS

MUNICIPAL GOVT. ANNEX 151 LINCOLN WAY EAST MASSILLON, OHIO 44646 ATT: KEITH A. DYLEWSKI, PE PH: (330) 830-1722

- 5. EXISTING FIELD CONDITIONS SHALL BE FIELD CHECKED AND VERIFIED BY THE CONTRACTOR PRIOR TO BIDDING. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE PLANS AND EXISTING FIELD CONDITIONS; THE CONTRACTOR SHALL SEEK WRITTEN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE PRIOR TO THE BID SUBMISSION.
- SHOULD THE CONTRACTOR ENCOUNTER CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT—ISSUING AGENCIES, THE CONTRACTOR SHALL SEEK CLARIFICATION IN WRITING FROM THE OWNER'S REPRESENTATIVE PRIOR TO BID
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE CONSTRUCTION MEANS AND METHODS THAT WILL PROTECT PROPERTY AND PREVENT BODILY INJURY AND/OR DEATH. THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF CITY, STATE, AND FEDERAL GOVERNMENTS.
- CONSTRUCTION SHALL BE PERFORMED, AND EQUIPMENT STORED, IN A MANNER WHICH PERMITS EXISTING FACILITIES TO PERFORM WITHOUT INTERRUPTION.
- THE CONTRACTOR SHALL PERFORM WORK SO AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPER BOX, TELEPHONE OR POWER POLES, SIGNS, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE, UNLESS
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING, WHICH SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 201. THIS WORK SHALL CONSIST OF CLEARING, GRUBBING, SCALPING, REMOVAL OF TREES AND STUMPS, AND REMOVING AND DISPOSING OF ALL VEGETATION AND DEBRIS WITHIN THE LIMITS DESIGNATED ON THE PLANS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF STRUCTURES AND OBSTRUCTIONS. THIS WORK SHALL CONSIST OF THE REMOVAL, WHOLLY OR IN PART, AND SATISFACTORY DISPOSAL OF ALL BUILDINGS, FENCES, GUARDRAILS, STRUCTURES, OLD PAVEMENTS, ABANDONED PIPE LINES, STORAGE TANKS, PRIVY VAULTS, AND ANY OTHER OBSTRUCTIONS WHICH ARE NOT DESIGNATED OR PERMITTED TO REMAIN, EXCEPT FOR THE OBSTRUCTIONS TO BE REMOVED UNDER OTHER ITEMS IN THE DESIGN PLANS.
- 12. THE CONTRACTOR SHALL PERFORM EXCAVATION AND EMBANKMENT ACTIVITIES IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 203. THIS WORK SHALL CONSIST OF PREPARATION OF AREAS UPON WHICH EMBANKMENTS ARE TO BE PLACED; EXCAVATION AS REPRESENTED ON THE PLANS, INCLUDING THE REMOVAL OF ALL MATERIAL ENCOUNTERED NOT BEING REMOVED UNDER ANOTHER ITEM; CONSTRUCTING EMBANKMENTS WITH THE EXCAVATED MATERIAL AND MATERIAL FROM OTHER SOURCES NECESSARY TO COMPLETE THE PLANNED EMBANKMENTS; FURNISHING AND INCORPORATING ALL WATER REQUIRED FOR COMPACTING EMBANKMENT AND SUBGRADE; DISPOSING OF UNSUITABLE AND SURPLUS MATERIAL; PREPARING THE SUBGRADE; TESTING THE STABILITY AND UNIFORMITY OF COMPACTION OF THE SUBGRADE FOR AREAS SPECIFICALLY CALLED FOR ON THE PLANS; ALL IN CLOSE CONFORMITY WITH THE LINES, GRADES, AND THICKNESSES SHOWN ON THE PLANS.
- 13. THE CONTRACTOR MUST MEET THE FOLLOWING COMPACTION REQUIREMENTS: A.) RELATIVE COMPACTION UNDER BUILDINGS (TO WITHIN 5 FT. OF BUILDING LIMITS) AND UNDER PAVEMENT
- AREAS SHALL MEET 100% OF THE "STANDARD" PROCTOR MAXIMUM DRY DENSITY WITH A WATER CONTENT WITHIN ±2% OF THE LABORATORY "OPTIMUM WATER CONTENT" B.) RELATIVE COMPACTION WITHIN UTILITY TRENCHES SHALL MEET 95% OF THE "STANDARD" PROCTOR MAXIMUM DRY DENSITY WITH A WATER CONTENT WITHIN ±3% OF THE LABORATORY "OPTIMUM WATER CONTENT".
- C.) RELATIVE COMPACTION WITHIN YARD AREAS SHALL MEET 90% OF THE "STANDARD" PROCTOR MAXIMUM DRY DENSITY WITH A WATER CONTENT WITHIN ±3% OF THE LABORATORY "OPTIMUM WATER CONTENT". 14. WHEREVER UNSTABLE SOIL SUBGRADE CONDITIONS ARE ENCOUNTERED THAT ARE UNSUITABLE PER ODOT 204
- SPECIFICATIONS, ADDITIONAL EXCAVATION AND SUBSEQUENT BACKFILLING SHALL BE DONE BY THE CONTRACTOR UNTIL SUCH CONDITIONS ARE CORRECTED. THIS WORK SHALL BE LISTED IN THE BID AS A CONTINGENCY ITEM.
- 15. SUBGRADE TESTING OR PROOF ROLLING MUST BE WITNESSED AND APPROVED BY THE OWNER OR A QUALIFIED INDIVIDUAL DESIGNATED BY THE OWNER.
- 16. STORM SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 603. BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT STANDARD CONSTRUCTION DRAWING (SCD) DM-1.4 - CONDUIT INSTALLATION
- UNLESS OTHERWISE NOTED, ALL STORM SEWER INSTALLATIONS ARE TO BE INSTALLED USING TYPE B CONDUITS WITH CLASS B BEDDING IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 603. THE FOLLOWING PIPE MATERIALS ARE APPROVED FOR THIS PROJECT: REINFORCED CONCRETE PIPE (RCP) IN ACCORDANCE WITH ODOT ITEM 706,02
- HIGH-DENSITY CORRUGATED POLYETHYLENE (HDPE) SMOOTH LINED PIPE IN ACCORDANCE WITH ODOT ITEM
- C.) POLYVINYL CHLORIDE SOLID WALL PIPE (PVC) IN ACCORDANCE WITH ODOT ITEM 707.45, 8" DIAMETER AND
- 18. DOWNSPOUT LEADERS ARE TO BE CONSTRUCTED AT A MINIMUM RATE OF 1.00%.
- CONSTRUCT ALL MANHOLES, CATCH BASINS, AND INLETS REPRESENTED ON THE PLANS IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 604. THIS SHALL INCLUDE ALL APPURTENANCES NECESSARY TO PROVIDE A COMPLETE FINISHED STRUCTURE, SUCH AS CAST FRAMES, GRATES, COVERS, STEPS AND OTHER SPECIFIED
- 20. ALL CATCH BASINS LOCATED IN PAVED AREAS SHALL BE EQUIPPED WITH BICYCLE SAFE GRATES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND INSTALLATION OF THE PROPOSED SANITARY SERVICE SEWER. MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE THE CITY OF MASSILLON. IN LIEU OF LOCAL MATERIAL AND INSTALLATION SPECIFICATIONS, THE SERVICE SEWER SHALL E 6 IN. DIAMETER PVC IN ACCORDANCE WITH ASTM D-3034, WITH JOINTS IN ACCORDANCE ASTM D-3212 AND BEDDING IN ACCORDANCE WITH ASTM D-2321, AND SHALL BE LAID AT A RATE NO LESS THAN ONE
- A SANITARY SEWER CONNECTION PERMIT IS REQUIRED, CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.
- 23. FOR DETAILS AND SPECIFICATIONS REGARDING THE TELEPHONE AND ELECTRICAL SERVICES, REFER TO THE
- THE SITE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND INSTALLATION FOR THE PROPOSED WATER, GAS, CABLE, TELEPHONE AND ELECTRIC SERVICES TO WITHIN 5 FEET OF THE BUILDING. INSTALLATION PROCEDURES AND MATERIAL SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THESE UTILITIES WITH THE RESPECTIVE UTILITY OWNERS. REFER TO THE PLUMBING AND MECHANICAL PLANS FOR CONTINUATION OF LITERATURES INTO THE BUILDING. MECHANICAL PLANS FOR CONTINUATION OF UTILITIES INTO THE BUILDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRIPPING AND STOCKPILING TOPSOIL IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 651. THIS WORK SHALL CONSIST OF STRIPPING TOPSOIL FROM DESIGNATED AREAS WITHIN THE WORK LIMITS, TRANSPORTING AND STORING IN PILES AT LOCATIONS DESIGNATED BY THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING STOCKPILED TOPSOIL IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 652. THIS WORK SHALL CONSIST OF HAULING AND SPREADING TOPSOIL FROM STOCKPILES, AND PREPARING THE SUBGRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING AND MULCHING ALL DISTURBED AND PROPOSED YARD AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 659. THIS WORK SHALL CONSIST OF FURNISHING ALL SEED, AGRICULTURAL LIMING MATERIALS, COMMERCIAL FERTILIZER, MULCHING MATERIAL, AND
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 614. THIS WORK SHALL CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC AS NECESSARY.
- 29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 616. THIS WORK SHALL CONSIST OF APPLYING, WHEN ORDERED, WATER OR DUST PALLIATIVE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM THE PROJECT SITE.
- 30. SEE THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) (SHEET C-201), FOR EROSION CONTROL MEASURES.

STORM WATER MANAGEMENT BASIN NOTES:

Areas designated for borrow areas, embankment and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped no steeper than 2:1. All trees shall be cleared and arubbed to within 15 feet of the toe of the embankment.

Areas to be covered by the storm water management basin will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless atherwise specified on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry starm water management ponds, a minimum of a 25 foot radius around the outlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the basin as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

EARTH FILL MATERIAL — The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut-off trench shall conform to United Soil Classification GC, SC, CH or CL and must have at least 30% passing the #200 sieve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised by a geotechnical engineer.

PLACEMENT — Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principle spillway must be installed concurrently with fill placement and not excavated into the embankment. The embankment fill SHALL NOT be placed higher than the centerline of the principle spillway until after the principle spillway has been

COMPACTION - The minimum required density shall not be less than 95% of the maximum dry density with a moisture content within 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density. All compaction is to be determined by AASHTO Method T—99

CUT OFF TRENCH — The cut off trench shall be excavated into the impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability

EMBANKMENT CORE — The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10 year water elevation or as shown on the plans. The side slopes shall be 1 to 1 or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

STRUCTURE BACKFILL — Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a structure or pipe, unless there is a compacted fill of 24" or greater over the structure or

TOPSOIL — A 4—inch layer of topsoil shall be placed on all disturbed areas of the embankment. Seeding, liming, fertilizing, mulching, etc. shall be in accordance with ODOT Item 659.

CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from various parts of the work and for maintaining excavations, foundation and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation.

STABILIZATION

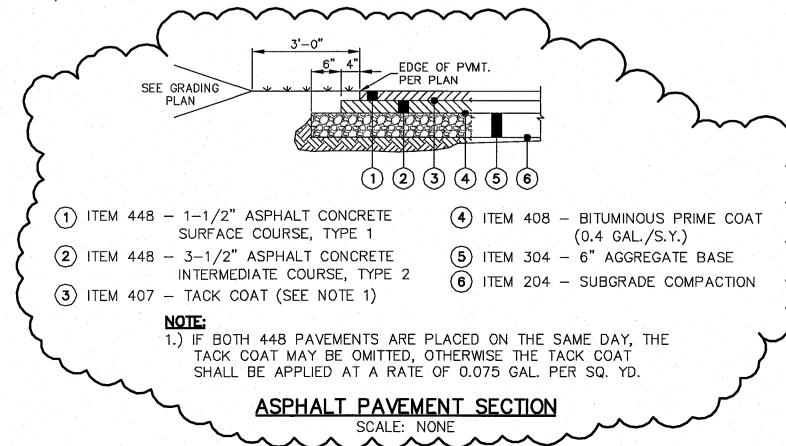
All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the requirements of ODOT Item 659.

EROSION AND SEDIMENT CONTROL

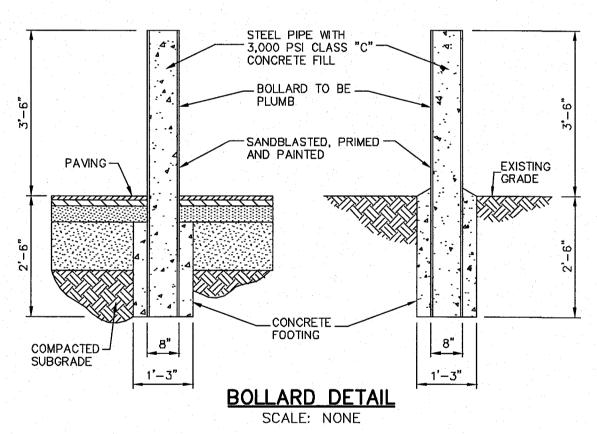
Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. Federal, State and lacal laws concerning pollution abatement will be followed and all construction shall be in accordance with the Storm Water Pollution Prevention Plan for the site.

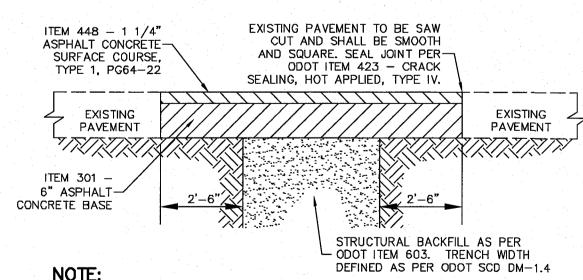
SANITARY SEWER NOTES:

- ALL SANITARY SEWER AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO MASSILLON CITY ENGINEERING DEPARTMENT SPECIFICATIONS IN EFFECT AT THE TIME OF CONSTRUCTION.
- 2. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- MINIMUM COVER OVER ALL SANITARY SEWERS MUST BE 4.0 FEET.
- ALL SANITARY SEWERS 8" DIAMETER AND LARGER, MUST PASS INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEO TAPE TO THE SANITARY ENGINEERING DEPARTMENT. THE VIDEO TAPING PROCEDURE MUST BE IN ACCORDANCE WITH CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT
- PRIOR OR THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF MASSILLON ENGINEERING DEPT., (330-830-1722) TO SCHEDULE A PRE-CONSTRUCTION MEETING. A MINIMUM OF 3 DAYS NOTICE IS REQUIRED TO
- SANITARY SEWER MAY BE ANY OF THE FOLLOWING MATERIALS, HOWEVER THE COMPLETE SYSTEM MUST BE UNIFORM IN PIPE MATERIAL: A. V.C.P. EXTRA STRENGTH A.S.T.M. C-700 WITH COMPRESSION TYPE JOINTS IN CONFORMANCE WITH A.S.T.M. C-425. B. A.B.S. COMPOSITE PIPE A.S.T.M. D-2680 WITH CHEMICALLY WELDED PREMIUM JOINTS IN CONFORMANCE WITH A.S.T.M. D-2235, BEDDING PER A.S.T.M. D-2680. C. P.V.C. PIPE A.S.T.M. D-3034, S.D.R. 35 MAXIMUM WITH GASKETED PREMIUM JOINTS A.S.T.M. D-3212. BEDDING PER
- THE CONTRACTOR SHALL CORE DRILL THE EXISTING SANITARY MANHOLE (S1) AT THE LOCATION DESIGNATED ON THESE PLANS, INSTALL A FLEXIBLE BUTYLENE RESIN CONNECTOR THAT CONFORMS TO ASTM C923, SEAL THE CONNECTION WITH A NON-SHRINK MORTAR, CONSTRUCT A FORMED INVERT TO PROMOTE FLOW TO THE NORTH THROUGH THE MANHOLE AND INSTALL A BULKHEAD ON THE PROPOSED SEWER UNTIL SUCH TIME THE PROPOSED SANITARY SEWER HAS BEEN TESTED AND APPROVED BY THE MASSILLON CITY ENGINEER, AT WHICH TIME THE BULKHEAD SHALL BE REMOVED. ALL ITEMS DESCRIBED ABOVE SHALL BE COVERED IN THE CONTRACTORS BID PRICE TO CONNECT INTO THE EXISTING SEWER.
- MANHOLE AND TRENCHES SHALL BE PER MASSILLON DETAILS DRAWINGS.
- CONTRACTOR MUST CONSTRUCT ALL WATER LINES AS NECESSARY TO MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE WITH THE SANITARY SEWER AND A MINIMUM OF 12" VERTICAL CLEARANCE WITH THE STORM SEWER.
- 10. A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE PIPE OF 8-INCH DIAMETER AND LARGER. THE TEST SHALL BE CONDUCTED AT LEAST 30 DAYS AFTER COMPLETION OF BACKFILL AND SHALL BE IN ACCORDANCE WITH THE CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE (5%) PERCENT. TESTING SHALL BE IN ACCORDANCE WITH A.S.T.M. D-3034.
- 11. ALL SANITARY SEWERS MUST PASS A LOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS. THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL./INCH. OF DIAMETER/MILE/DAY.
- 12. MANHOLE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF A.S.T.M. C-478 AND C-443. ALL MANHOLES SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF A.S.T.M. C1244.



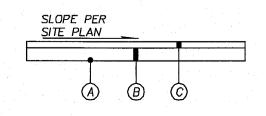






<code>FHE 2'-6"</code> DIMENSION IS A MINIMUM DIMENSION. IF ADJACENT PAVEMENT IS DAMAGED OR UNDERMINED DURING CONSTRUCTION, ADDITIONAL WIDTH WILL BE REQUIRED TO PROVIDE A SOUND PAVEMENT EDGE AS PER ODOT ITEM 202.05. PAVEMENT REPLACEMENT SHALL EXTEND TO THE EDGE OF PAVEMENT OR FACE OF CURB, AT NO ADDITIONAL COST, IN THE EVENT THAT THE SAW CUT WOULD LIE WITHIN 3 FEET OF THE EDGE OF PAVEMENT OR FACE OF CURB.

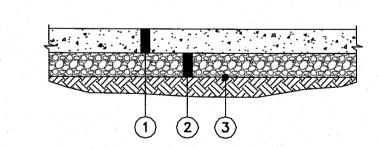
PAVEMENT REPLACEMENT SECTION



- (A) ITEM 204 SUBGRADE COMPACTION ITEM 703.01 - 4" No. 1 OR 2 LIMESTONE
 - ITEM 703.01 2" No. 57 LIMESTONE

TYPICAL GRAVEL SECTION SCALE: NONE

LOT OWNERSHIP TABLE			
LOT No.	OWNER	PARCEL No.	ZONED
PT 13999	GENSHAFT LEONA TRUSTEE ETAL	0900249	NONE
PT OL 481	FRESH MARK INC.	0701291	I—1
PT OL 984	RUSSELL L. BOUGHMAN	0701544	I-1
OL 484	SCOTT A. & ANGELA C. BUSH	0701733	I-1
12837	FRESH MARK INC.	0700107	R-1
12842	FRESH MARK INC.	0700106	R-1
12846	FRESH MARK INC.	0700112	R-1
12845	EUGENE B. & BONITA L. YEAGER	0700120	B-1
12824	FRESH MARK INC.	0700090	R-1
0.17 AC. TRACT	FRESH MARK INC.	4319412	NONE
17188	LEANNE INC	0701616	A-1
12756	CHAD M. HARTMAN	0713716	RT
OL 494	LEANNE CORP	0700145	B-3
12817	EAST OHIO GAS COMPANY	0700519	B-3
OL 493	LEANNE CORPORATION	0700101	B-3
PT OL 487	LEANN INC.	0701534	1-1
OL 447	NORFOLK SOUTHERN RAILWAY COMPANY	0799003	NONE
OL 457	FRESH MARK INC.	0700140	I-1



- (1) ITEM 452 6" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- (2) ITEM 304 6" AGGREGATE BASE
- (3) ITEM 204 SUBGRADE COMPACTION

NOTES:

- 1.) MAXIMUM TRANSVERSE JOINT SPACING = 15' 2.) MAXIMUM LONGITUDINAL JOINT SPACING = 18' 3.) LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE
- PER ODOT'S STAND. CONSTRUCTION DRAWINGS BP-2.1 & BP-2.2 RESPECTIVELY.

CONCRETE PAVEMENT SECTION SCALE: NONE



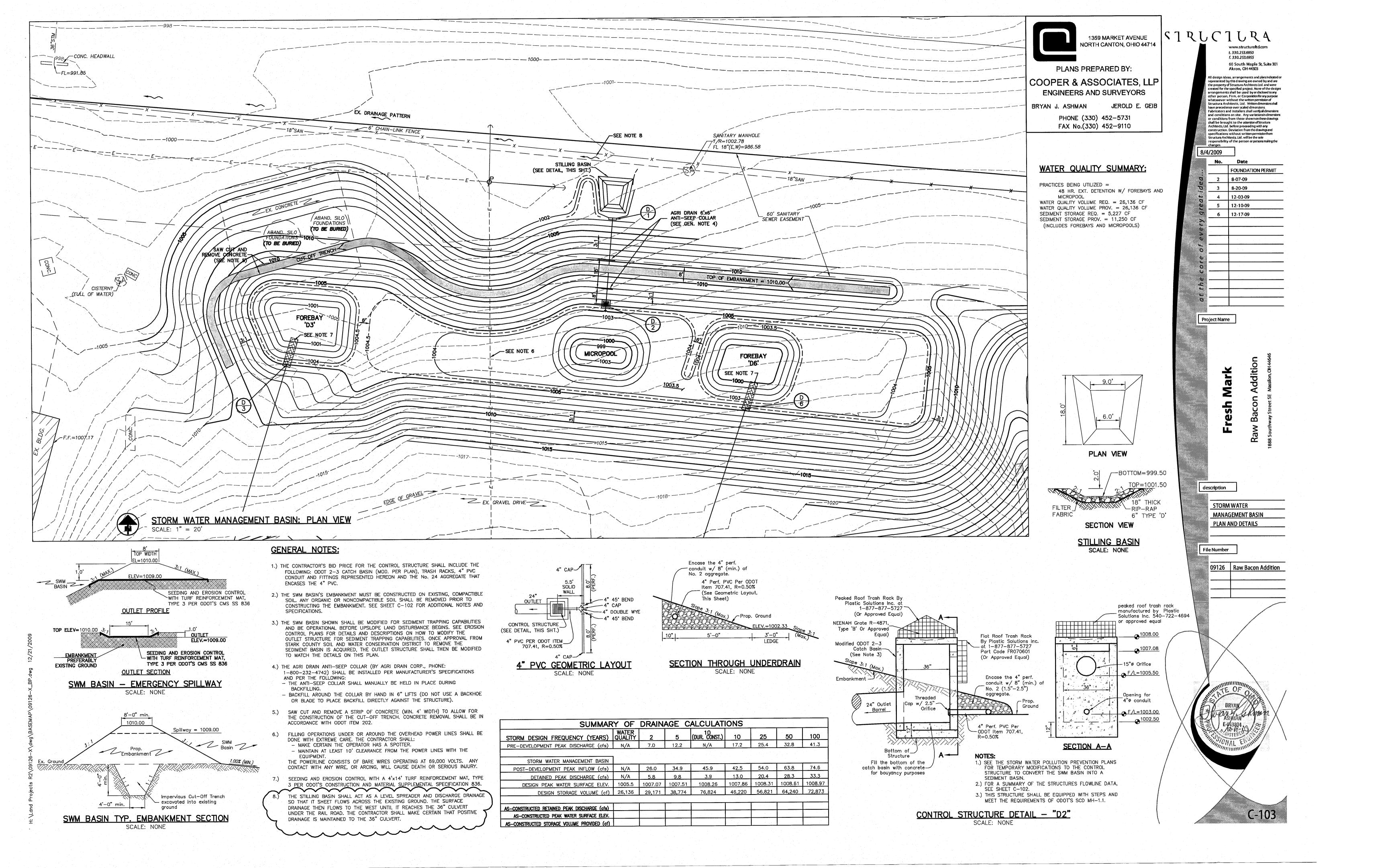
PLANS PREPARED BY: COOPER & ASSOCIATES, LLP **ENGINEERS AND SURVEYORS**

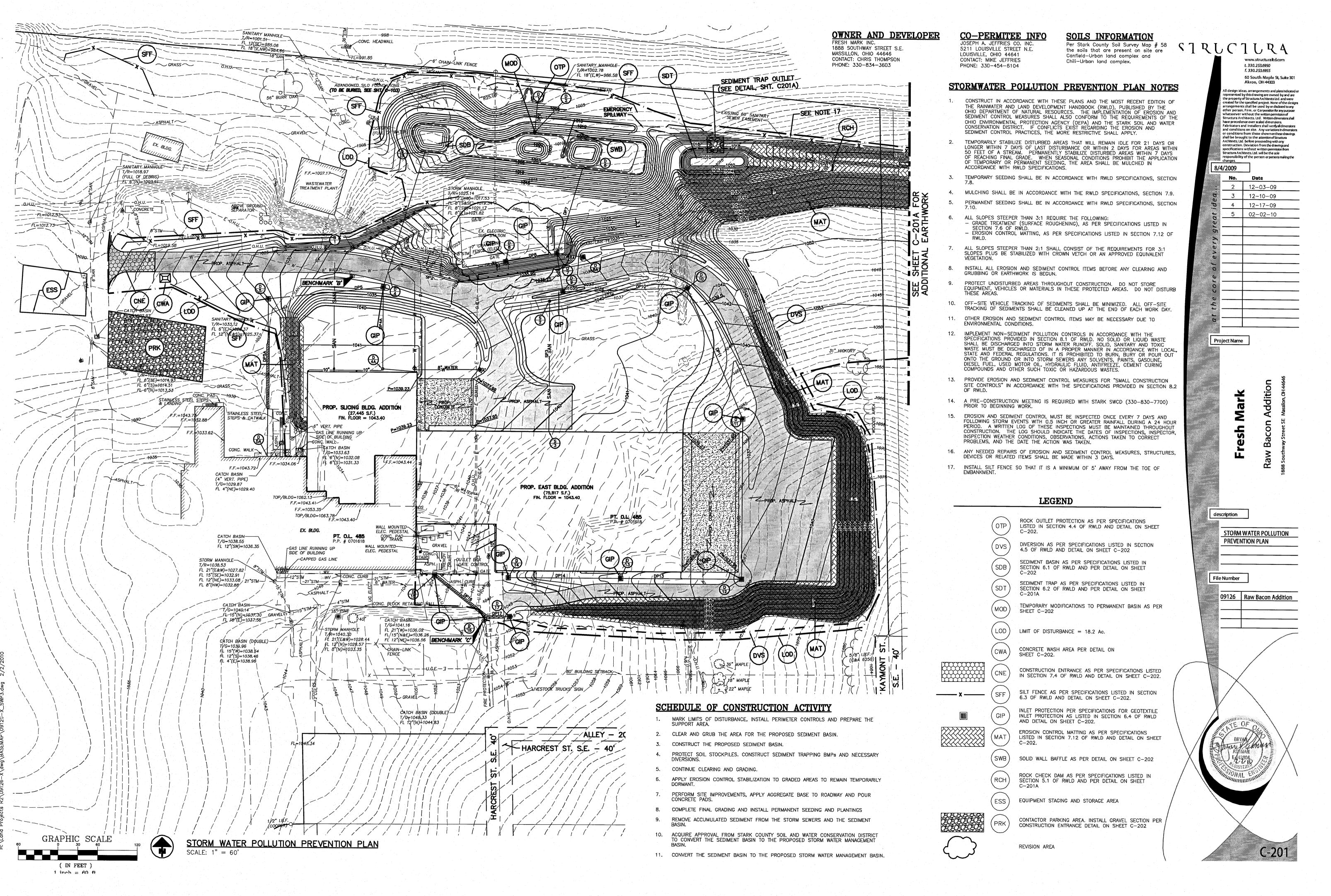
AVENUE NORTH CANTON, OHIO 44714

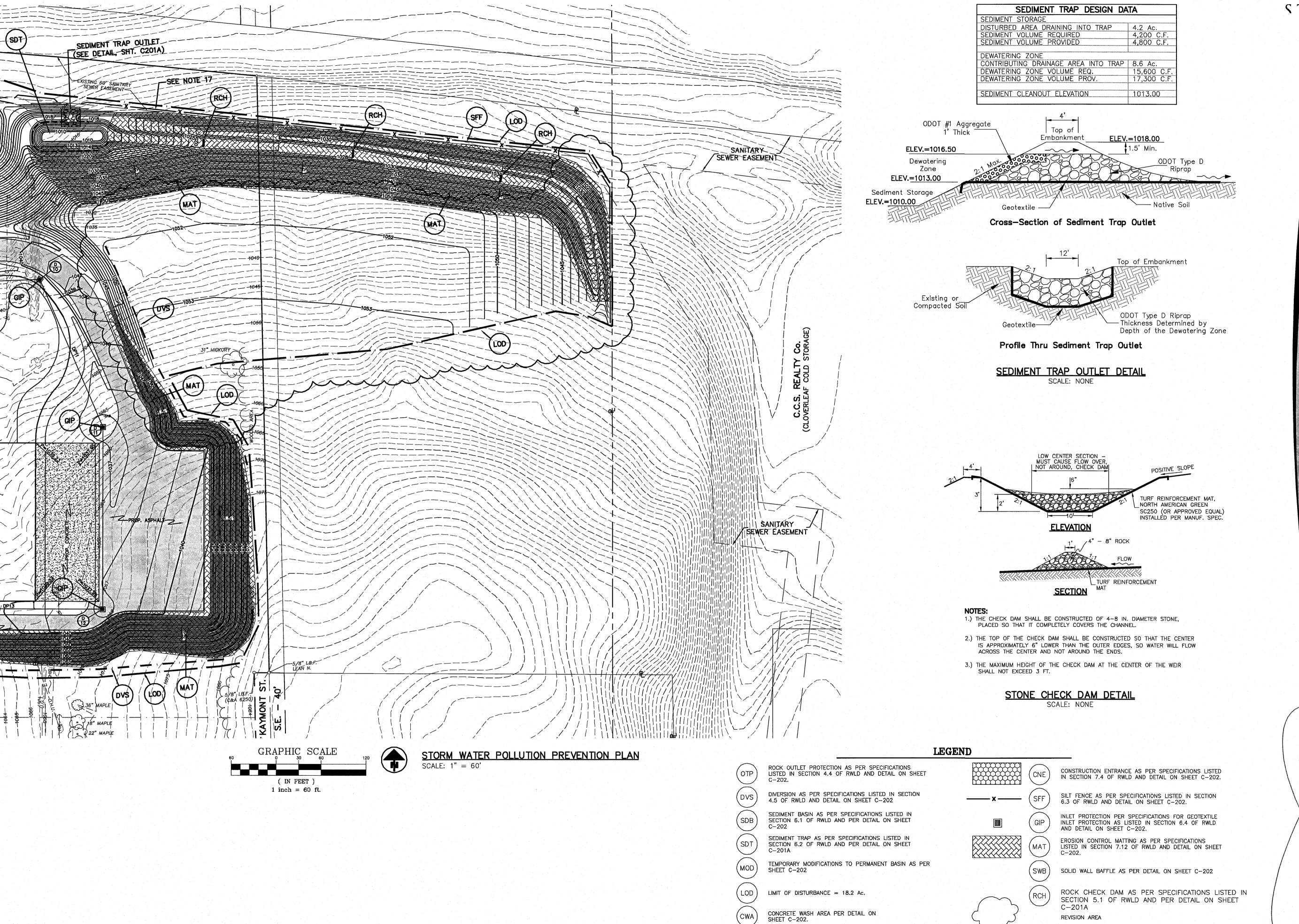
BRYAN J. ASHMAN JEROLD E. GEIB PHONE (330) 452-5731

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REVISION AREA