

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

TO: Hamilton County Drainage Board

April 23, 1999 (phase 1)

RE: Oliver Shoemaker Drain

Attached is a petition and plans for the proposed relocation of the Oliver Shoemaker and John Sutton Drains. The relocation is being proposed by Mann Realty Company for a portion of the Fishers Trade Center. The proposal is to reconstruct the original 18" and 21" tiles on the West side of State road 37. Beginning at Sta 13+50 of the John Sutton Drain and Sta 75+00 of the Oliver Shoemaker Drain the drain will be routed South and East around Phase One of the Fishers Trade center and tying back into the existing tiles at Sta 20+10 of the John Sutton drain and Sta 80+50 of the Oliver Shoemaker Drain. The 48" RCP meets the requirements as set out in the drainage Study Prepared by Schneider Engineering Company dated 1996 in conjunction with the Woods of Britton Apartment project.

This line will consist of:

18"	RCP	74 ft
48"	RCP	852 ft

The total length of the new tile shall be 926 feet. The 660 feet of original drain between Sta 13+50 and 20+10 of the John Sutton and the 550 feet of the Oliver Shoemaker Drain between Sta 75+00 and 80+50 shall be vacated. This proposal will add an additional 220 feet to the Oliver Shoemaker Drains total length. It will also reduce the total length of the John Sutton Drain by 506 feet.

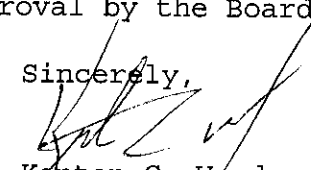
The cost of the relocation is to be paid by Mann Realty. Because the project is to be paid by the petitioner and is within the boundaries of the petitioner's property, the project falls under the requirements as set out in IC 36-9-27-52.5. Therefore, a hearing is not required for the petition.

The petitioner has provided the Performance Bond as follows:

Name of Bonding Co.:	<u>Frontier Insurance Company</u>
Bond #:	<u>129036</u>
Bond Date:	<u>April 6, 1999</u>
Bond Amount:	<u>\$132,300.00</u>
Bond Term (1 Year Max):	<u>2 Years</u>

I recommend approval by the Board at this time.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/kkw

MPA**MELTON-PACKARD & ASSOCIATES**

Civil Engineers • Land Surveyors

April 20, 1998

MPA Project Number: 9538

Mr. William A. Cash
 Hamilton County Surveyor's Office
 One Hamilton County Square, Suite 146
 Noblesville, Indiana 46060

Re: **Fishers Trade Center - Phase One**
 S.W. Corner of East 141st Street and State Road 37
 Fishers, Indiana

Dear Mr. Cash:

ENGINEER'S COST ESTIMATE - Oliver Shoemaker Regulated Drain

The following is an itemization of estimated costs for installing proposed improvements for the construction of storm sewer and erosion control for that portion of the work to be directly associated with the relocation / reconstruction of the regulated drain.:

Storm Sewers:**A. Storm Sewer Manholes:**

1. 96" Dia. MHs:	1 each x \$5,000.00 / each =	\$ 5,000.00
2. 84" Dia. MHs:	3 each x \$4,500.00 / each =	\$ 13,500.00
3. 48" Dia. MHs:	1 each x \$3,000.00 / each =	\$ 3,000.00

B. Storm Sewer Pipe:

1. 48" RCP:	852 lineal feet x \$122.07 / l.f. =	\$104,000.00
2. 18" RCP:	74 lineal feet x \$ 24.32 / l.f. =	\$ 1,800.00

Subtotal Storm Sewers: = \$127,300.00

Erosion Control:

A. Lump sum estimate for erosion control for storm sewer installation = \$ 5,000.00

Total Estimated Relocation /Reconstruction Construction Cost = \$132,300.00

Should you have any questions, upon your review of this correspondence, please contact me at 577-0069.

Sincerely,
 Melton-Packard & Associates, Inc.

Michael D. Little

Michael D. Little, P.E.
 Senior Project Engineer

MDL/mdl

cc: Dave Mann, Mann Realty Co.

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Oliver Shoemaker Drain, Fishers Trade Center Phase I

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana .
2. I am familiar with the plans and specifications for the above referenced subdivision .
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision .
4. The drainage facilities within the above referenced subdivision to the best of my knowledge , information and belief have been installed and completed in comformity with all plans and specifications .

Signature: Michael D. Little Date: JUNE 14, 2000

Type or Print Name: Michael D. Little, P.E., Senior Project Engineer

Business Address: Melton-Packard & Associates, Inc.
8444 Castlewood Drive, Suite 700
Indianapolis, Indiana 46250

Telephone Number: (317) 577-0069

Fax: (317) 577-1879

SEAL



INDIANA REGISTRATION NUMBER

21232

FILED
JUN 14 2000
OFFICE OF HAMILTON COUNTY SURVEYOR



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
 Phone (317) 776-8495
 Fax (317) 776-9628

Suite 188
 One Hamilton County Square
 Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

August 18, 2003

Re: Oliver Shoemaker Drain: Fishers Trade Center
 Phase I Relocation

Attached are as-builts, certificate of completion & compliance, and other information for Fishers Trade Center Phase I Relocation. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated April 23, 1999. The report was approved by the Board at the hearing held April 26, 1999. (See Drainage Board Minutes Book 5, Pages 124-125)
 The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Original Plans:	Difference:
5	810.69	801.09				
4	810.14	801.15	18	57	95	-38
4	810.14	801.15				
3	814.19	800.8	48	397	361	36
3	814.19	800.8				
2	810.31	800.47	48	351	357	-6
2	810.31	800.47				
1	810.14	800.32	48	138	135	3

RCP Totals:

18	57
48	886

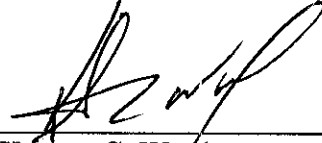
The length of the drain due to the changes described above is now **943 feet**. There was 1210 feet of the Oliver Shoemaker and John Sutton Drains vacated with this project. Therefore, the overall drainage system was reduced by 267 feet.

The non-enforcement was approved by the Board at its meeting on May 10, 1999 and recorded under instrument #200200084568.

The bond or letter of credit from Frontier Insurance Company, number 129036; in the amount of \$132,300; was released December 26, 2000.

I recommend the Board approve the drain's construction as complete and acceptable.

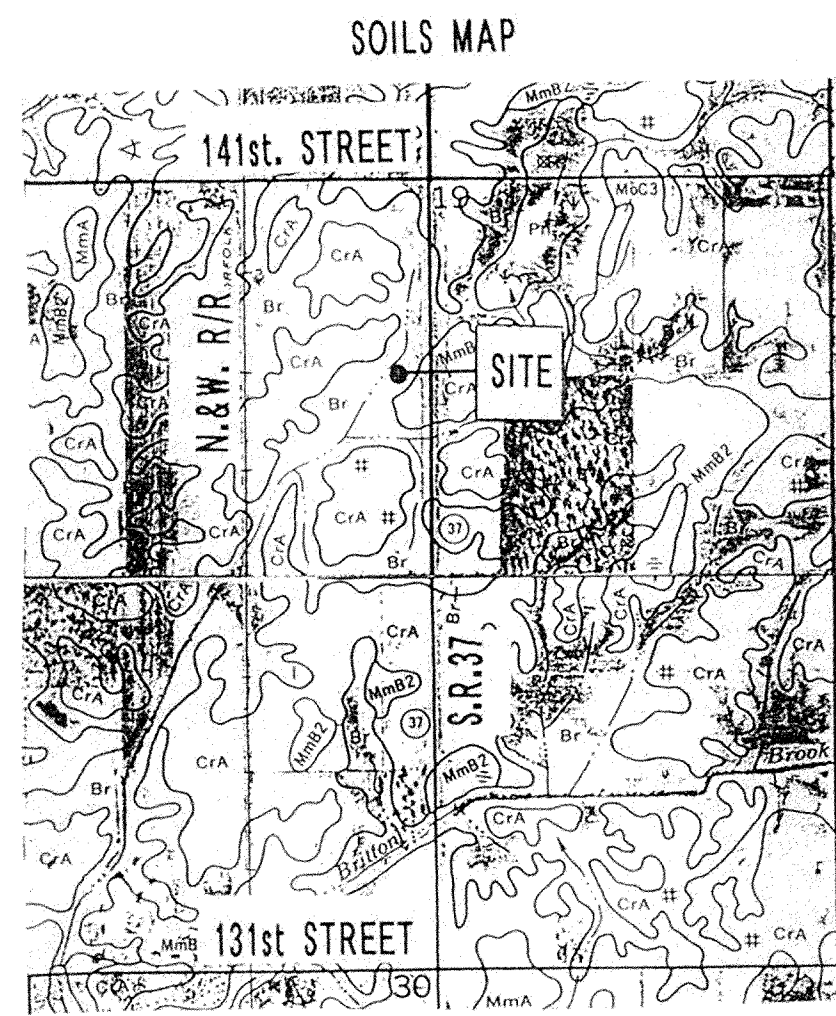
Sincerely,

A handwritten signature in black ink, appearing to read 'K. Ward', written over a horizontal line.

Kenton C. Ward,
Hamilton County Surveyor

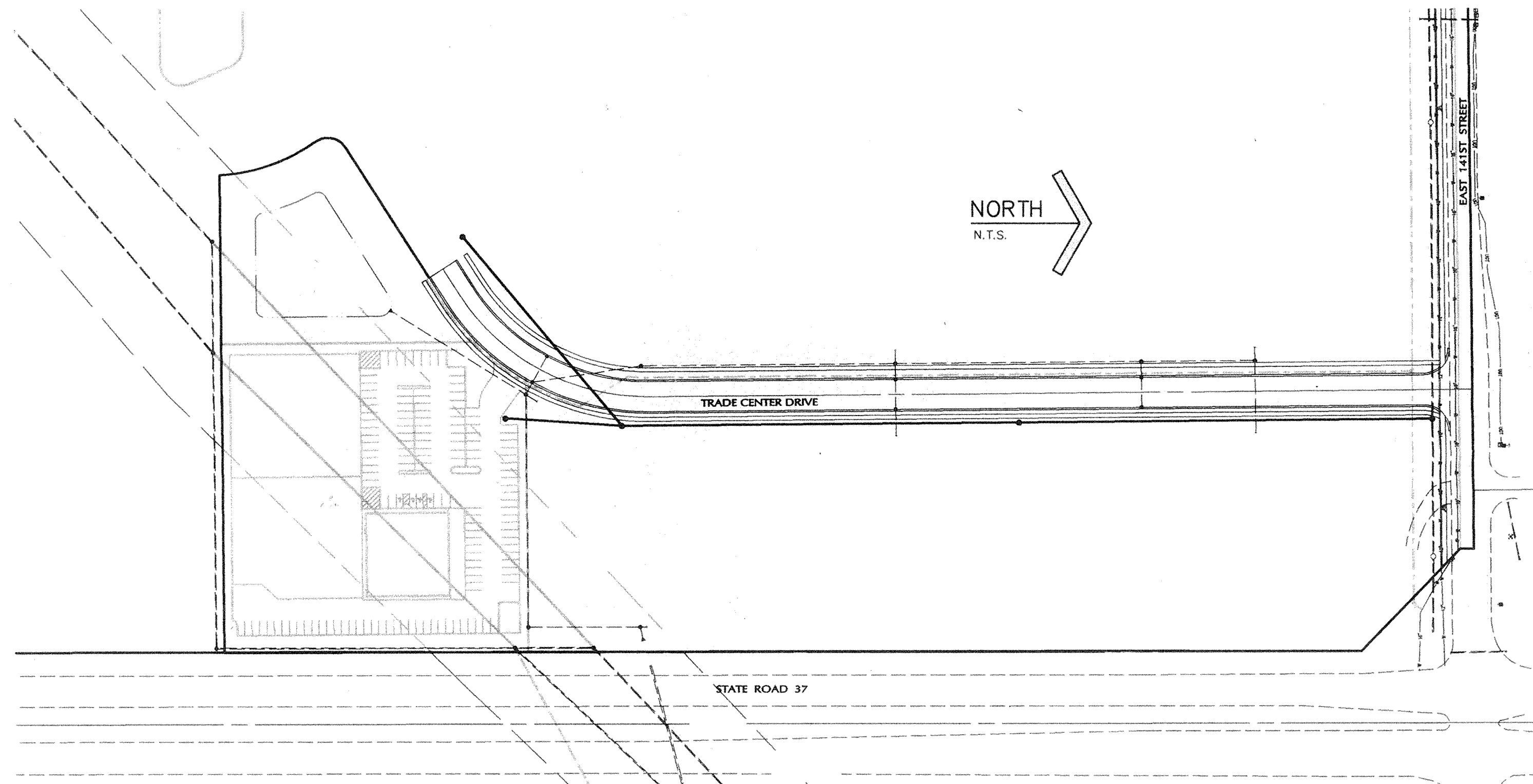
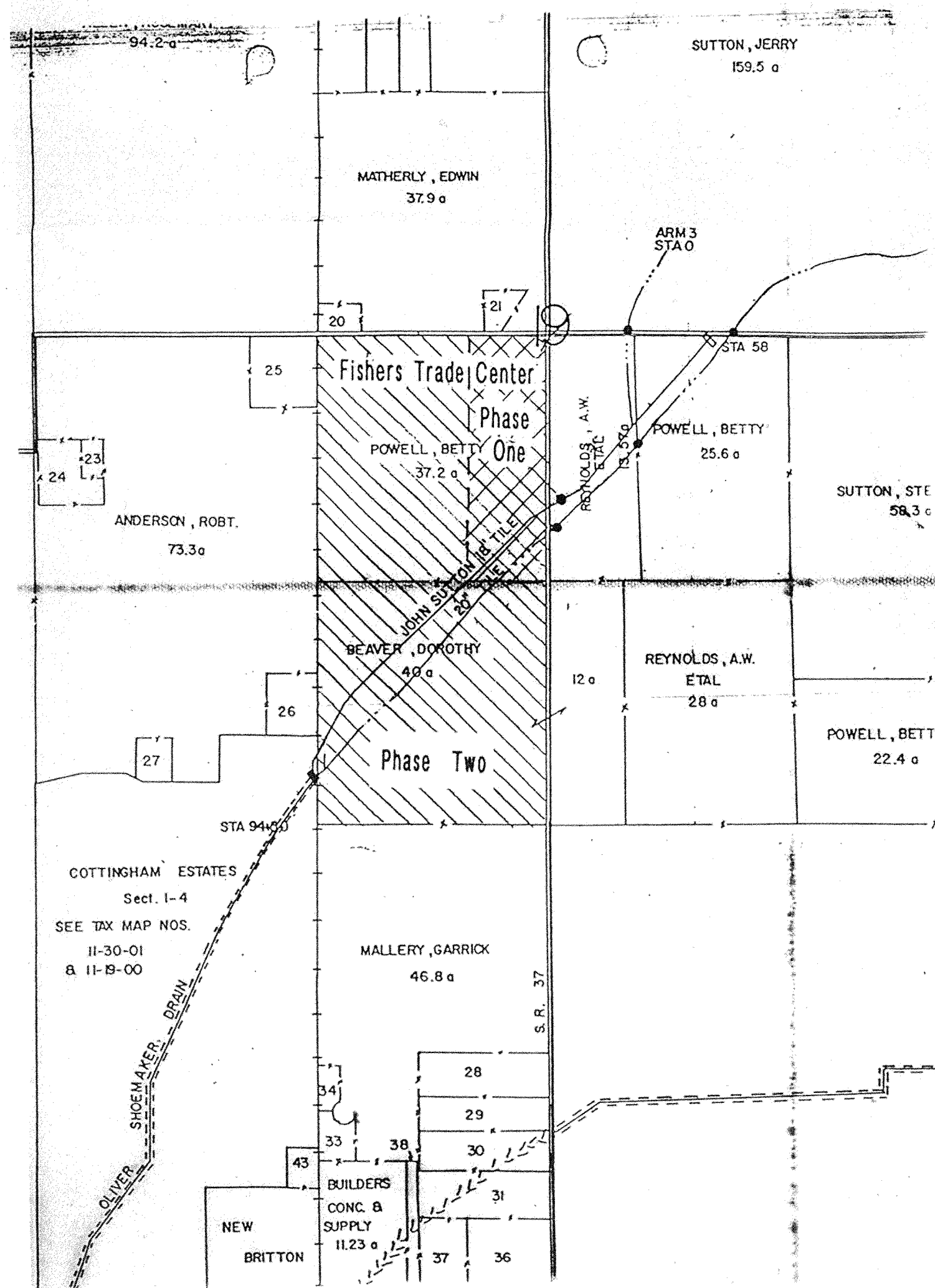
KCW/slm

SITE CONSTRUCTION PLANS FOR FISHERS TRADE CENTER PHASE ONE Fishers, Indiana



SOIL TYPES PRESENT ON SITE SCALE: 1" = 1,320 FT.
Br-BROOKSTON
CrA-CROSBY

NORTH



This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 8-15-2003

Entered by: Suzanne L. Mills

BENCHMARK

BENCHMARK:
(HSE 19) HSE disc in concrete on North side of Plantana entrance from Cumberland Road. West of North entrance wall.

ELEVATION = 822.36
(N.A.V.D. 1988 DATUM)

INDEX	
SHT. NO.	DESCRIPTION
CS	COVER SHEET
C200	KEY PLAN
C201	SITE DEVELOPMENT PLAN
C202	SITE DEVELOPMENT PLAN
C203	SOIL EROSION CONTROL PLAN
C204	WATER DISTRIBUTION PLAN
C301	STREET PLAN AND PROFILE
C501	SANITARY SEWER PLAN AND PROFILE
C701	STORM SEWER PLAN AND PROFILE
C702	STORM SEWER PLAN AND PROFILE
C703	STORM SEWER PLAN AND PROFILE
C801	SITE DETAILS
C802	SANITARY SEWER DETAILS
C803	EROSION CONTROL DETAILS & SPECIFICATIONS
C901	SITE SPECIFICATIONS
C902	SANITARY SEWER SPECIFICATIONS

REVISIONS		
SHEET NO.	DATE	DESCRIPTION
CS-C200-C204 C301-C501 C701-C703	05/05/99	REVISED STREET, SANITARY SEWER, STORM SEWER & WATER PER CLIENT
CS-C200-C204 C301-C501 C701-C703	06/18/99	REVISED PER SAMCO COMMENT LETTER DATED JUNE 8, 1999.
CS-C701	08/05/00	AS-BUILT

CERTIFIED THIS 31st DAY OF MARCH, 1999.

MICHAEL D. LITTLE
REGISTERED
No. 21232
STATE OF
INDIANA
PROFESSIONAL ENGINEER

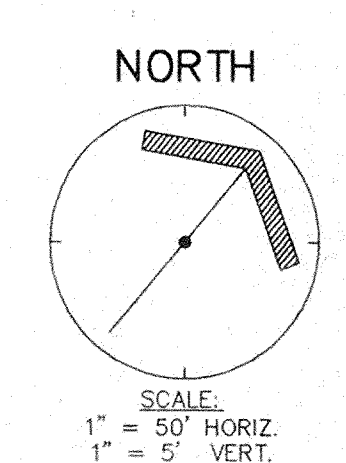
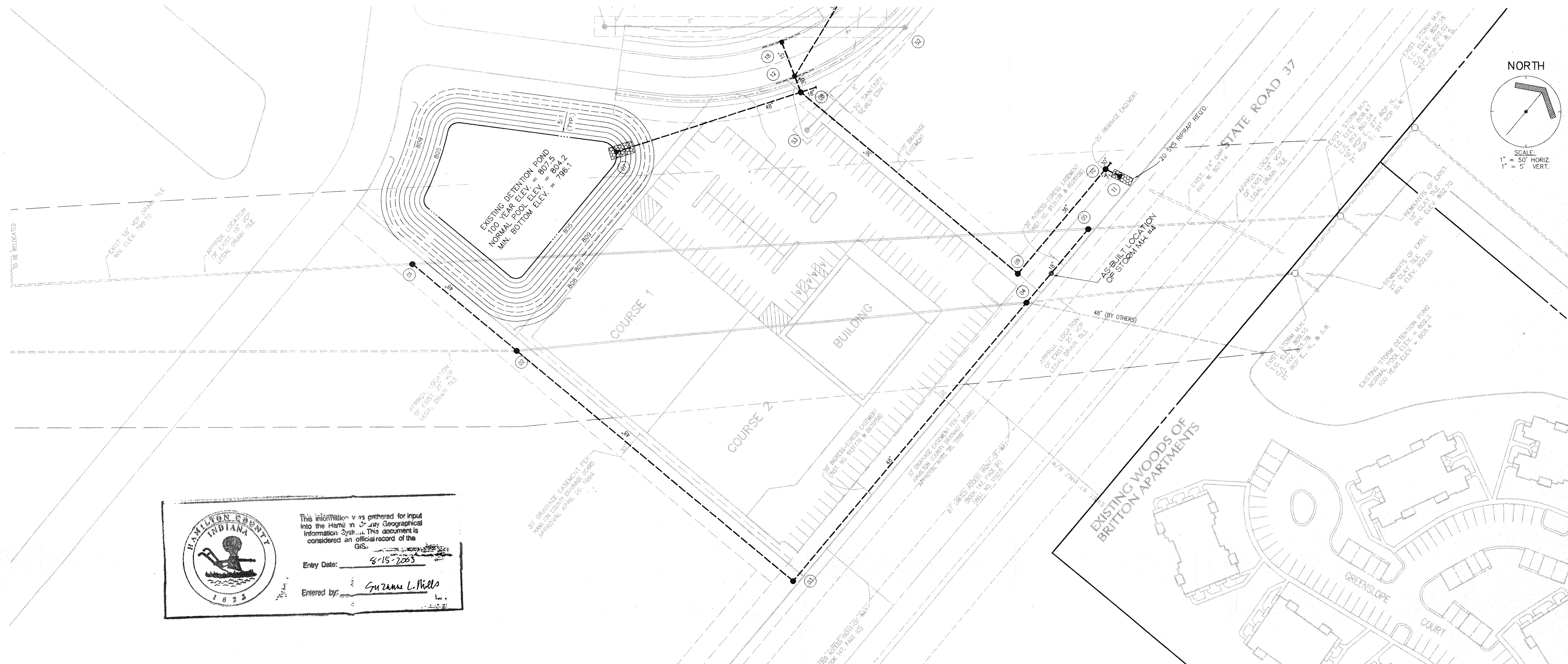
Michael D. Little
MICHAEL D. LITTLE
REG. PROFESSIONAL ENGINEER NO. 21232
STATE OF INDIANA

PLANS PREPARED BY:
MPA
MELTON-PACKARD AND ASSOCIATES
8444 Castlewood Drive, Suite #700
Indianapolis, Indiana 46250
(317) 577-0069

PLANS PREPARED FOR:
D.B. MANN DEVELOPMENT CO.
8653 BASH STREET
INDIANAPOLIS, INDIANA 46256
(317) 849-0452

PRINTED
JUN 14 2000
MPA

AS-BUILT
FILED
JUN 14 2000
OFFICE OF HAMILTON COUNTY SURVEYOR

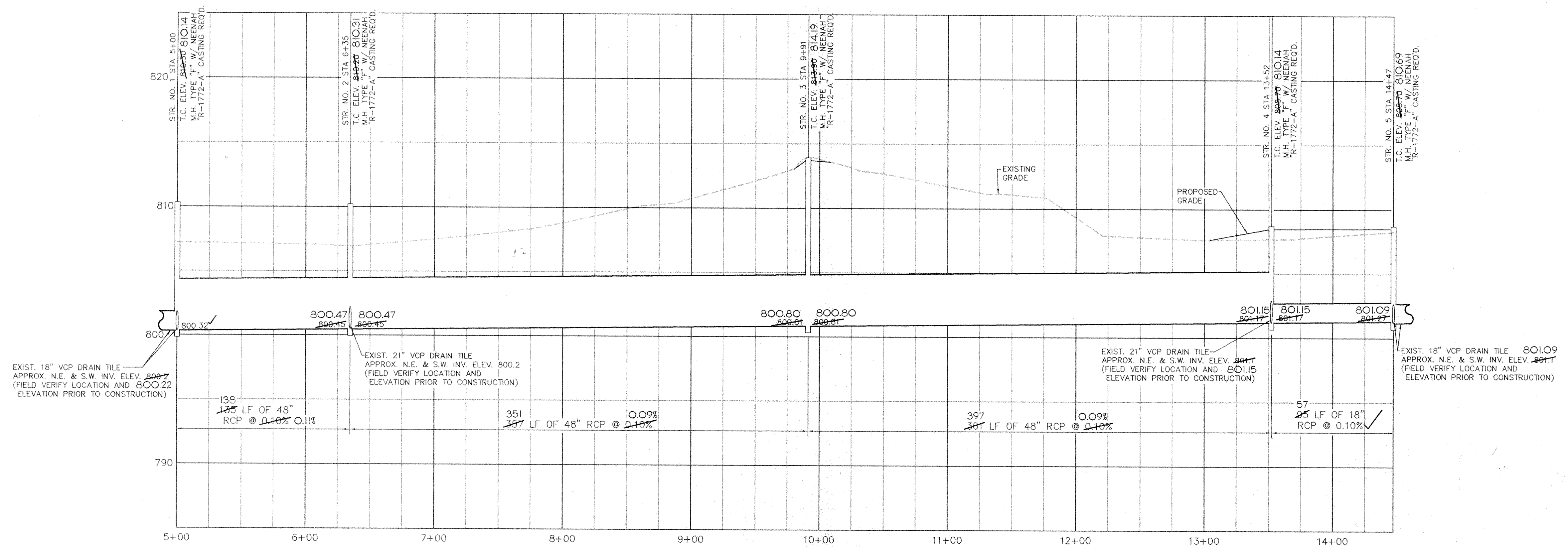


HAMILTON COUNTY INDIANA

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 8-15-2003

Entered by: Suzanne L. Mills



MPA MELTON-PACKARD & ASSOCIATES
 Civil Engineers • Land Surveyors
 6910 N. Shadeland Avenue • Indianapolis, Indiana 46220 • (317) 577-0069

STORM SEWER PLAN AND PROFILE
FISHERS TRADE CENTER
 PHASE ONE
 FISHERS, INDIANA

REVISIONS:
 05/05/99 ~ REV. PER CLIENT T.M.
 06/15/99 ~ REV. PER SAMCO dwp
 06/09/00 ~ AS-BUILT. TES

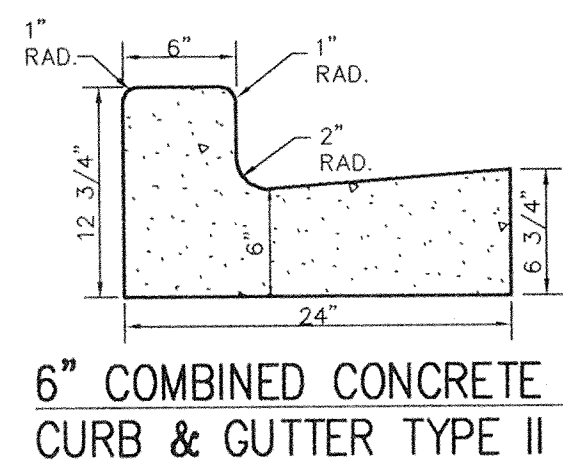
REGISTERED PROFESSIONAL ENGINEER
 No. 21232
 STATE OF INDIANA
 Michael D. Little

PRINTED JUN 14 2000
 MPA

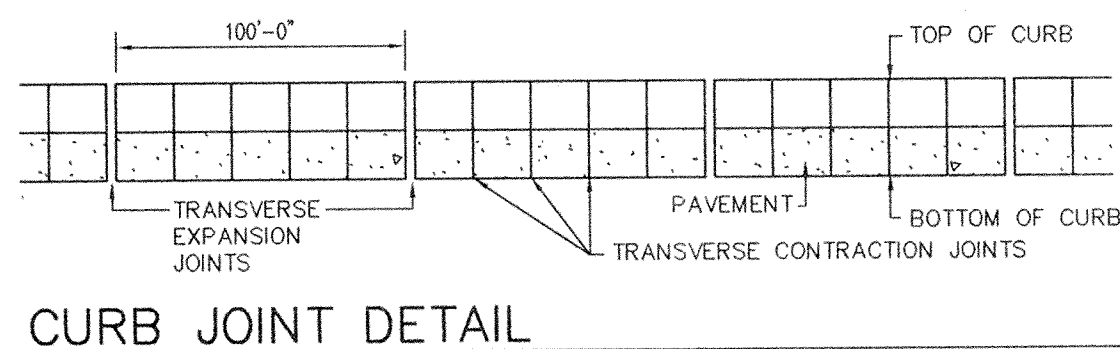
DRAWING: 9538C701
 DATE: 03/31/99
 PROJ. NO.: 9538
 dwp
 FILED JUN 14 2000
 OFFICE OF HAMILTON COUNTY SURVEYOR
 SHEET NO. 01
 TUBE FILE #

\\server\server\rd\159519538\Phase One\9538C701.dwg Mon Jun 05 13:56:43 2000 TES

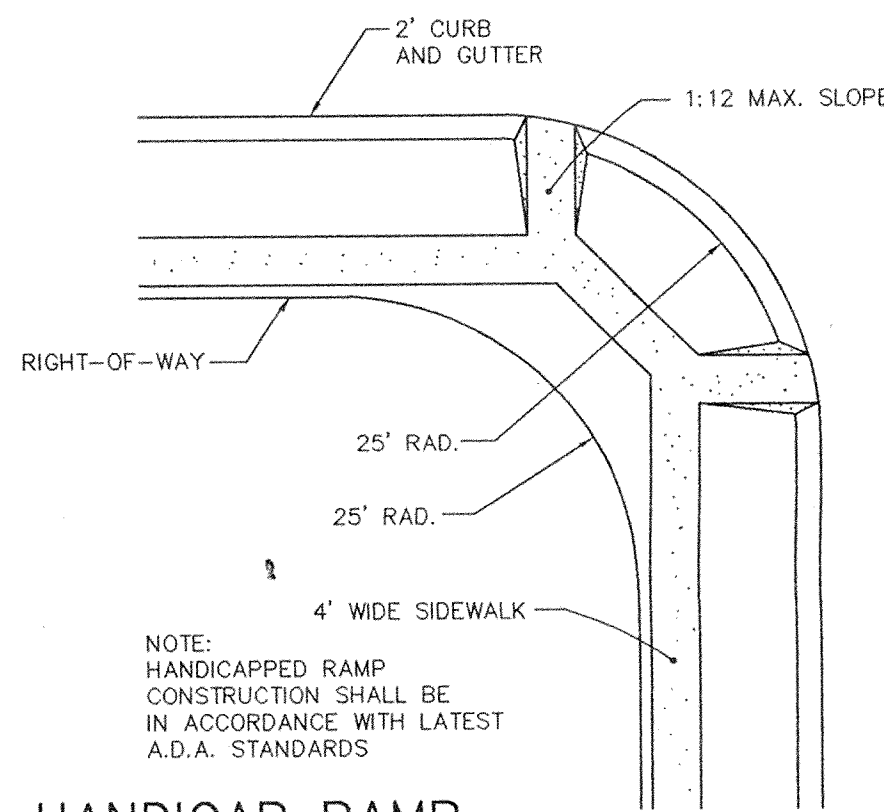
AS-BUILT



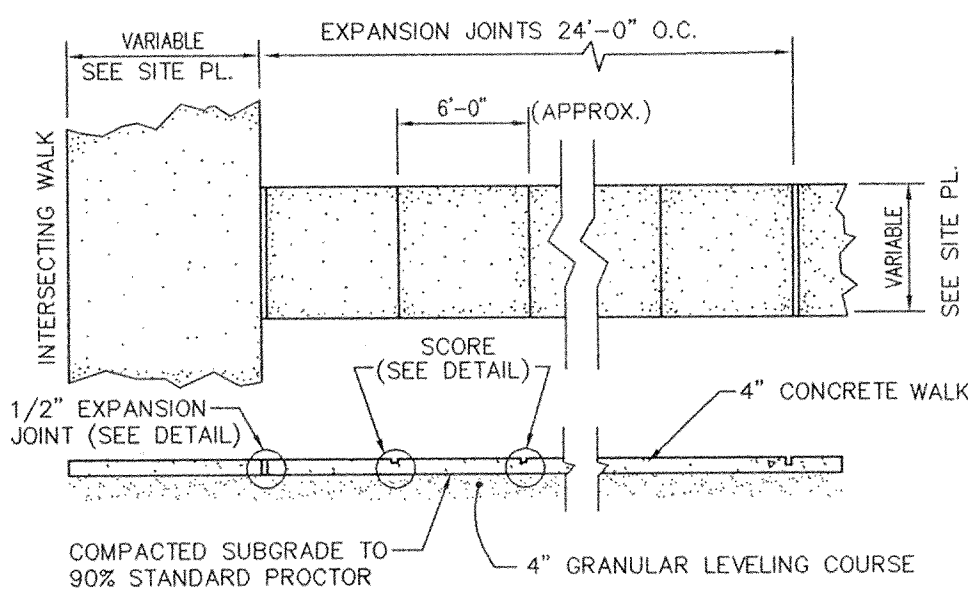
6" COMBINED CONCRETE CURB & GUTTER TYPE II



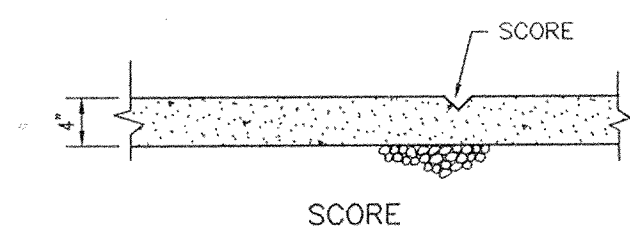
CURB JOINT DETAIL



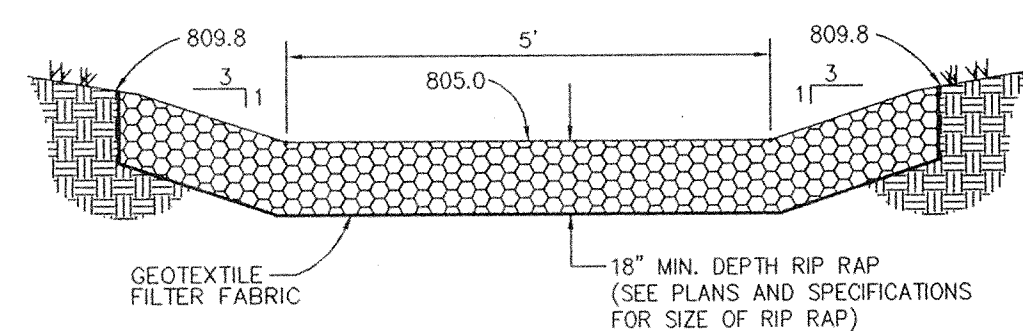
HANDICAP RAMP



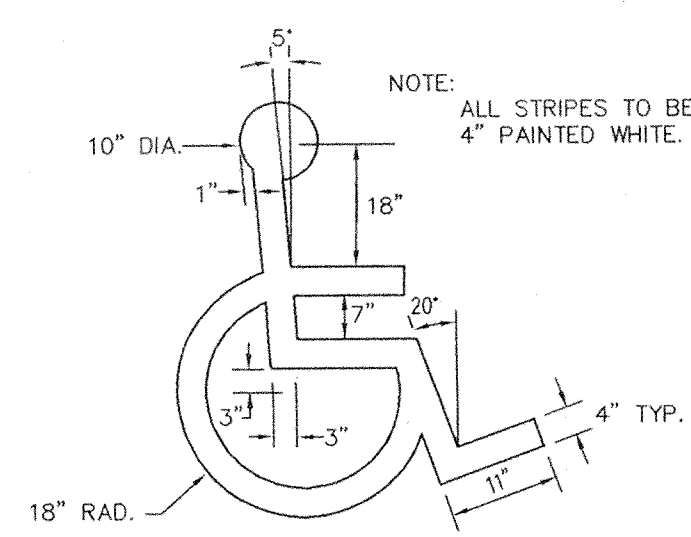
CONCRETE WALK SECTION



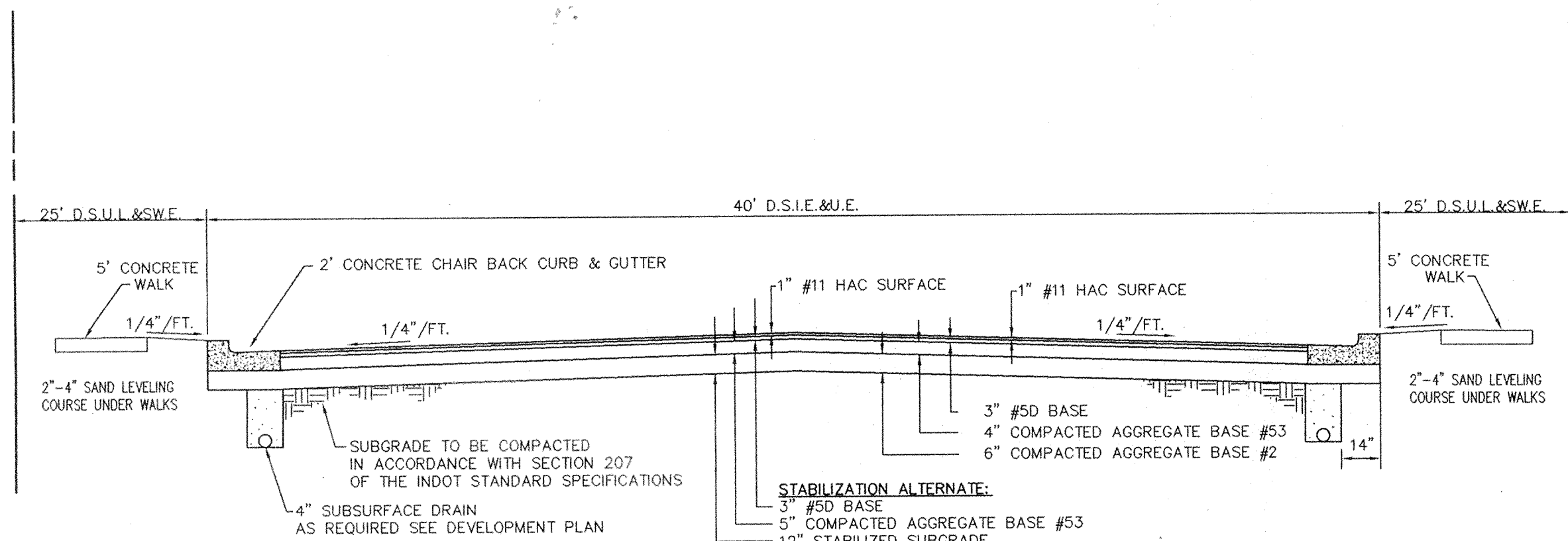
CONCRETE JOINT DETAILS



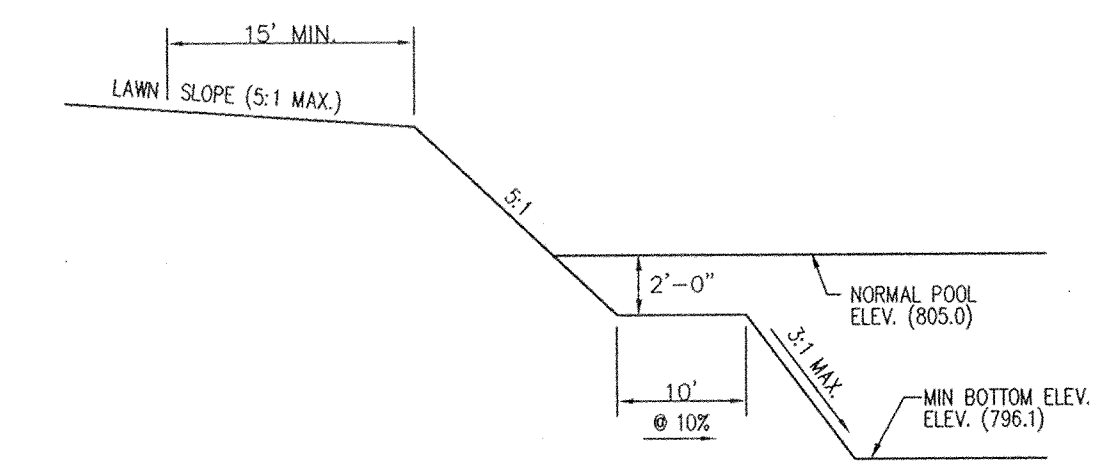
OVERFLOW WEIR DETAIL



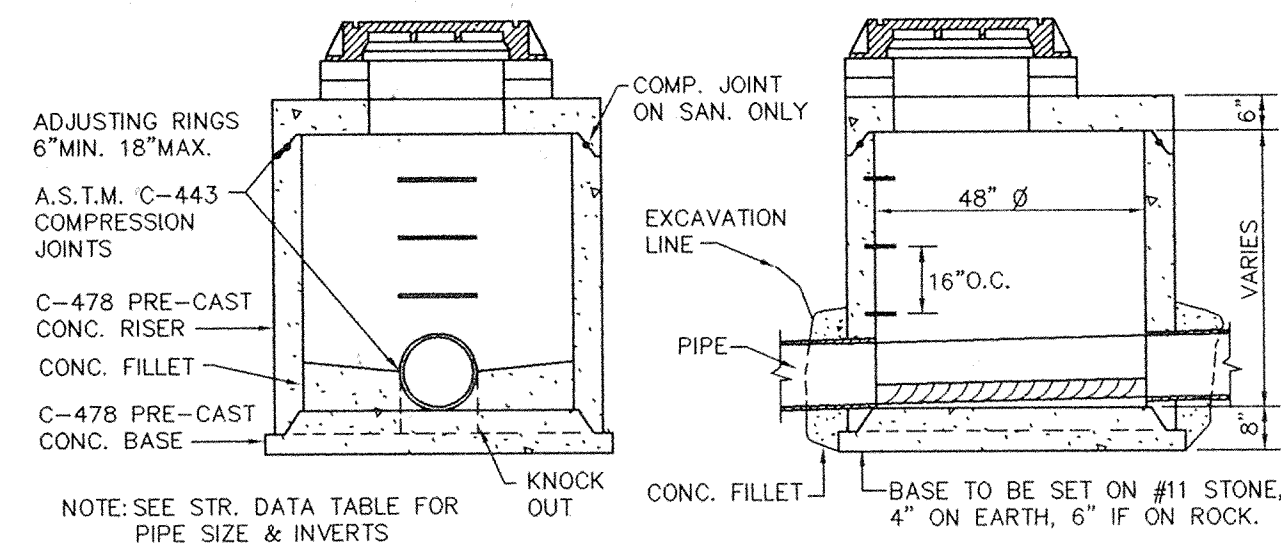
HANDICAPPED SYMBOL



TYPICAL STREET/DRIVE CROSS SECTION



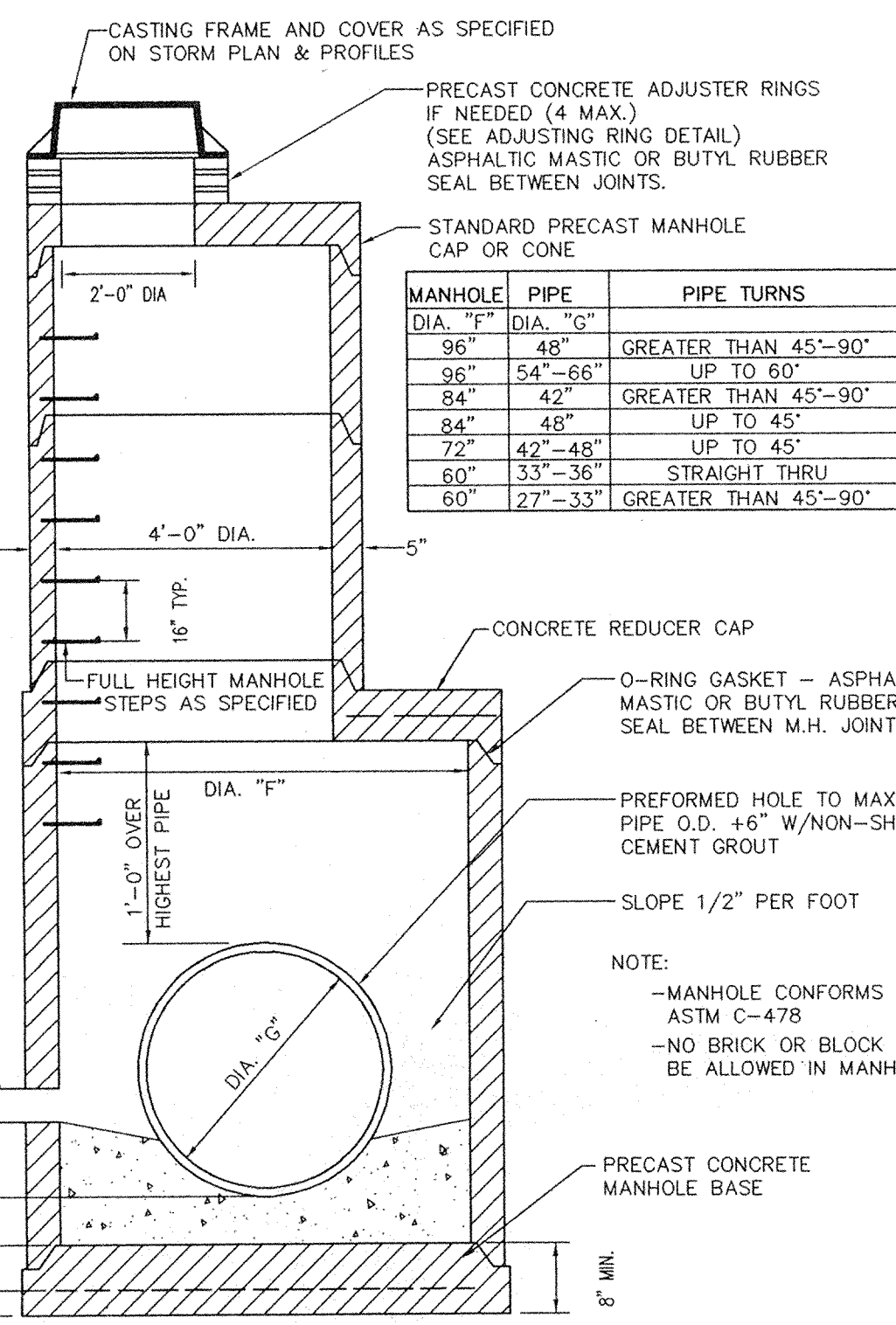
POND DETAIL



NOTE: SEE STR. DATA TABLE FOR PIPE SIZE & INVERTS

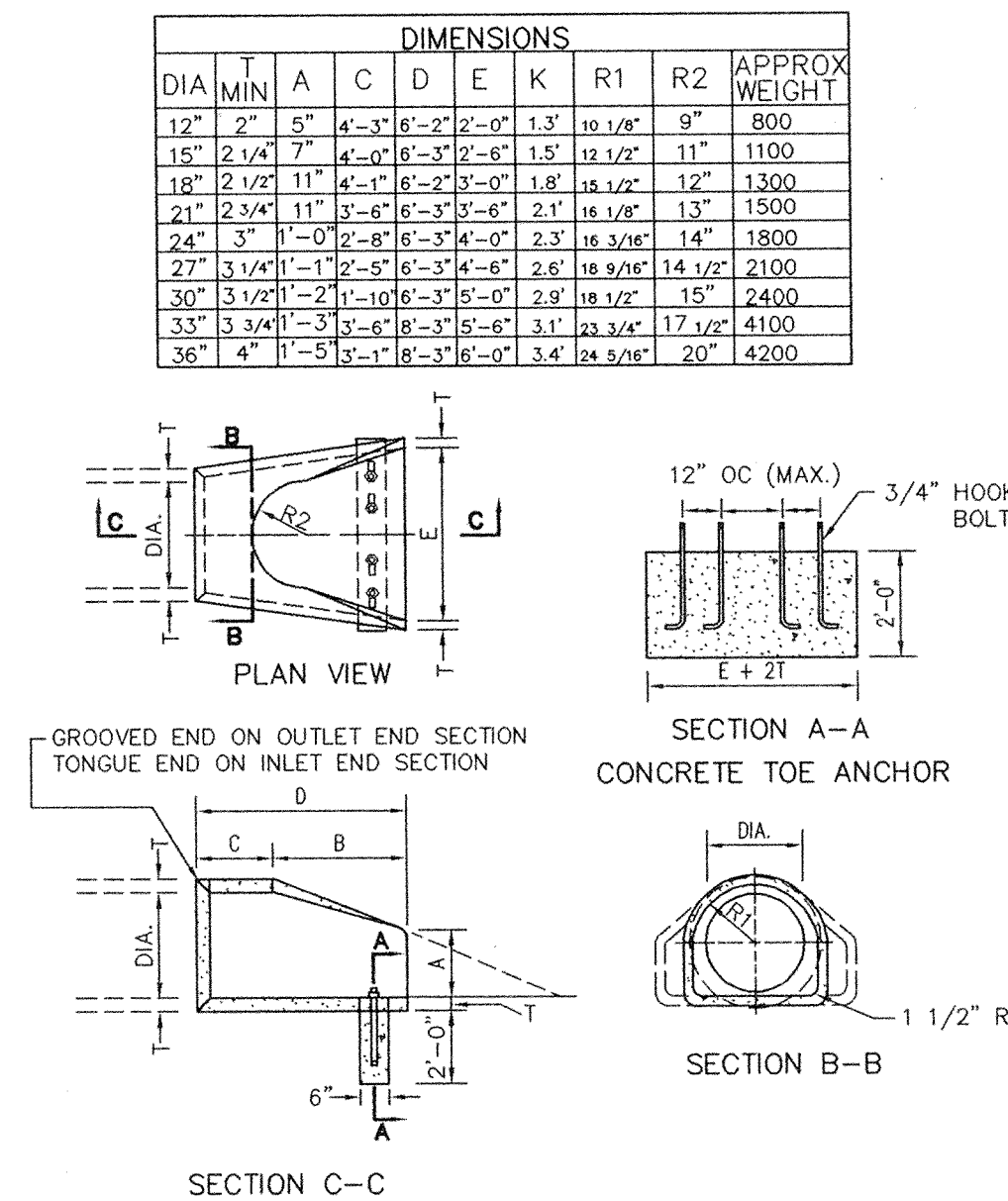
NOTE: MANHOLE STEPS SHALL BE POLYPROPYLENE, POLYPROPYLENE COATED STEEL REINFORCING OR AN APPROVED NON-CORROSIVE FIBERGLASS MATERIAL. THE COPOLYMER POLYPROPYLENE SHALL MEET THE REQUIREMENTS OF ASTM D-4101 REINFORCED WITH DEFORMED 3/8 INCH MINIMUM DIAMETER REINFORCING STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. NON-COATED CAST IRON STEPS ARE NOT ACCEPTABLE.

STORM/INLET TYPE "Z"

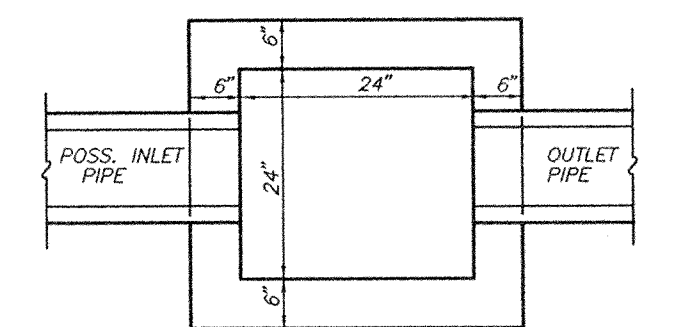


MANHOLE DIA. "F"	PIPE DIA. "G"	PIPE TURNS
96"	48"	GREATER THAN 45°-90° UP TO 60°
84"	42"	GREATER THAN 45°-90° UP TO 45°
72"	42"	UP TO 45°
60"	33"-36"	STRAIGHT THRU
60"	27"-33"	GREATER THAN 45°-90°

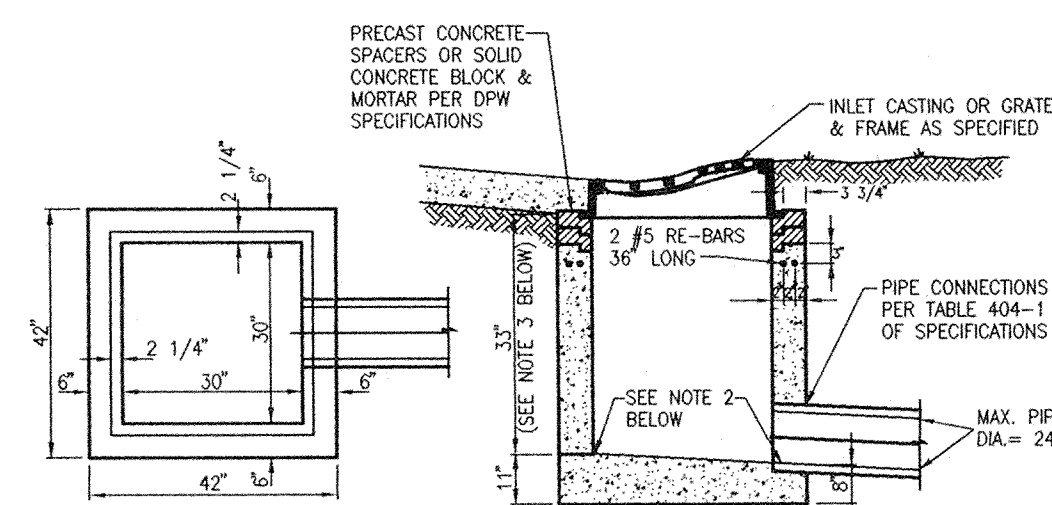
STORM MANHOLE/INLET TYPE "F"



CONCRETE END SECTION

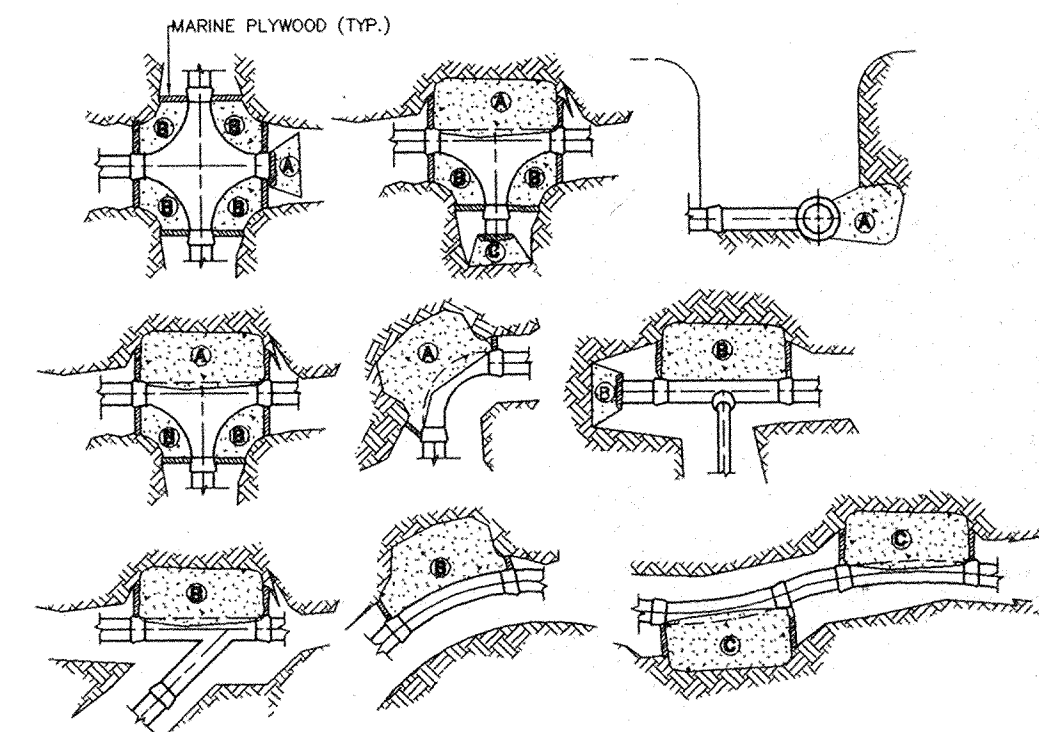


INLET TYPE "A" (MODIFIED)



INLET TYPE "E"

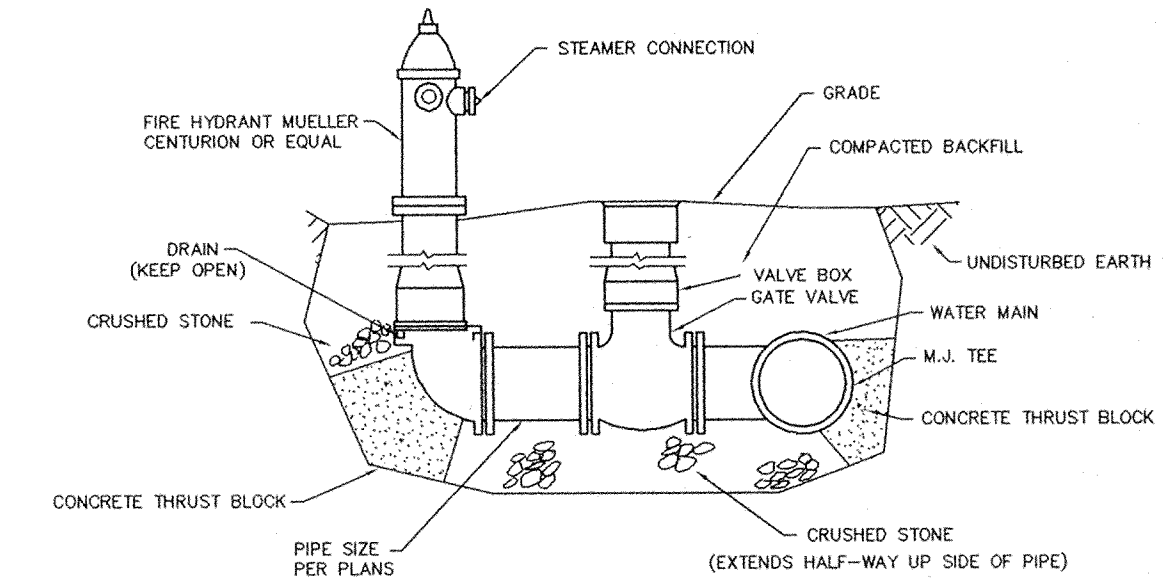
NOTES:
1. DIMENSIONS SHOWN IN CONFORMANCE WITH INDIANA DEPT. OF TRANSPORTATION (INDOT) SPECIFICATIONS.
2. POURED CONCRETE AND PIPE CONNECTION VARY WITH BOX TYPE SPECIFIED.
3. HEIGHT DIMENSION MAY VARY AS REQUIRED BY SITE CONDITIONS.



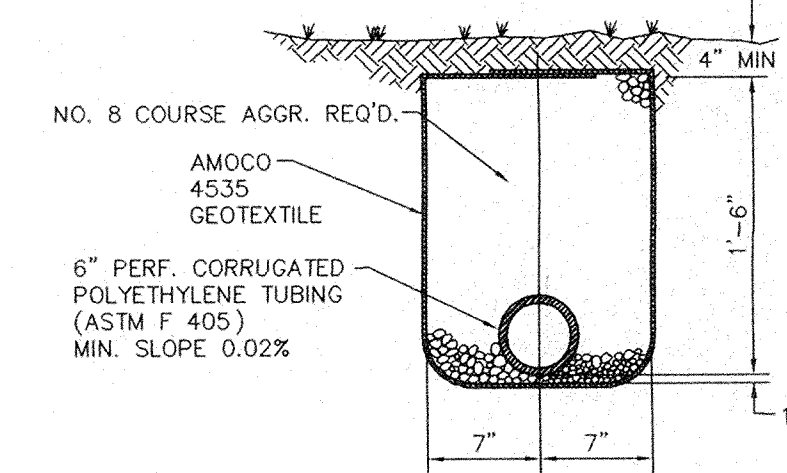
MARK	4"	6"	8"	10"	12"	16"
A (80')	1.1	2.8	4.6	7.5	10.4	18.2
B (45')	0.7	1.4	2.6	4.0	5.7	9.3
C (25 1/2')	0.3	0.8	1.3	2.0	2.9	4.3

NOTES:
1. ABOVE TABLE INDICATES CU. FT. OF CONC. REQUIRED WITH SOIL PRESSURE OF 2000 P.S.F. MIN.
2. PLACE PAPER OR PLASTIC BETWEEN FITTING & CONCRETE.
3. ALL CONCRETE TO BE 18" MIN. THICKNESS FROM FITTING TO SOIL.

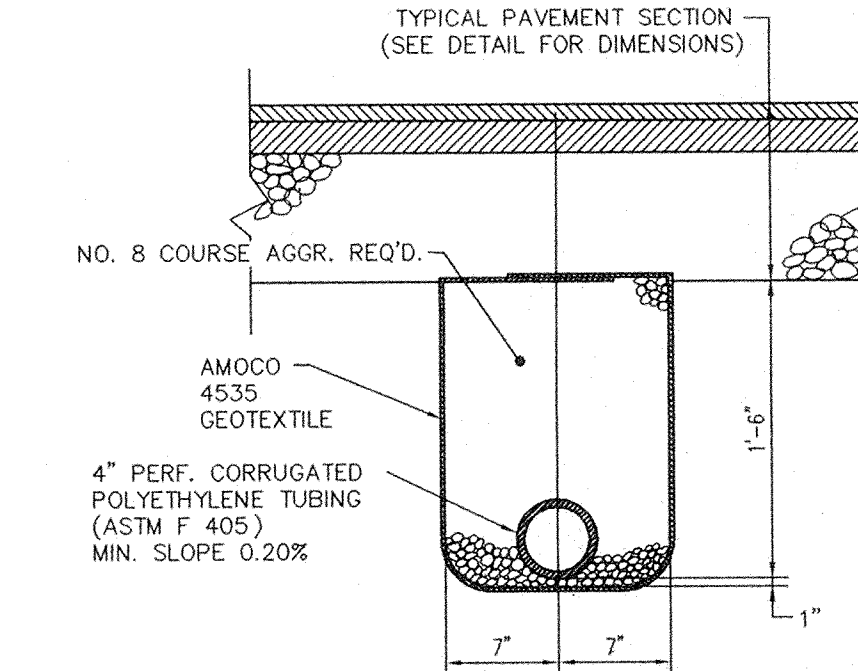
THRUST BLOCK TABLE



FIRE HYDRANT ASSEMBLY



SUBSURFACE DRAIN (NON-PAVED AREA)



SUBSURFACE DRAIN (PAVED AREA)

MELTON-PACKARD & ASSOCIATES
Civil Engineers & Land Surveyors
9910 N. Shadeland Avenue • Indianapolis, Indiana 46220 • (317) 577-0689

MPA

SITE DETAILS
FISHERS TRADE CENTER
PHASE ONE
FISHERS, INDIANA

SHEET TITLE: OVERFLOW WEIR
PROJECT NAME:
REVISIONS:
04/09/99 - REV. OVERFLOW WEIR

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. LITTLE
No. 21232
STATE OF INDIANA

PRINTED JUN 14 2000
MPA

DRAWING: 9538C801
DATE: 03/31/99
PROJ. NO.: 9538
OFFICE: HAMILTON COUNTY SURVEYOR

FILED JUN 14 2000
OFFICE OF HAMILTON COUNTY SURVEYOR
TUBE FILE #

GENERAL NOTES

- REFER TO THE INDIANA DEPARTMENT OF HIGHWAYS (IDOH) STANDARD SPECIFICATIONS, 1995 EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE IDOH STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- CONTRACTORS SHALL CHECK WITH ENGINEER PRIOR TO START OF CONSTRUCTION TO VERIFY DATE OF PLANS. MINOR CHANGES MAY BE MADE IF ALL REVIEWING AGENCY APPROVALS ARE NOT GRANTED BEFORE BIDDING. CHANGES IN COST SHALL BE NEGOTIATED PRIOR TO PHYSICAL CONSTRUCTION AND BASED ON UNIT PRICES SUBMITTED ON THE CONTRACT.
- CONTRACTORS SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE ALL MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES AND FACILITIES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY), IS THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR IN THE PERFORMANCE OF THE CONTRACT AND IN PREPARATION OF THE BID.
- BACKFILL AROUND ALL STRUCTURES AND IN ALL TRENCHES BENEATH PAVED AREAS SHALL BE COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH IDOH SECTION 211.
- FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTION TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE ATTAINED PRIOR TO PLACING THE NEXT LIFT. COMPACTION TESTS SHALL BE IN ACCORDANCE WITH IDOH SECTION 211.

CLEARING AND GRUBBING

- CLEARING AND GRUBBING SHALL CONSIST OF CUTTING, REMOVING AND SATISFACTORY DISPOSING OF ALL TREES, DOWNED TIMBER, BRUSH, PROJECTING ROOTS, STUMPS, RUBBISH, BOULDERS, BROKEN CONCRETE, FENCING (AS DESIGNATED), AND OTHER MATERIAL ON THE PROJECT SITE AND WITHIN THE BOUNDARY AS SHOWN ON THE CONSTRUCTION DOCUMENTS AND/OR AS DESIGNATED BY "CONSTRUCTION LIMITS".
- ALL "UNSUITABLE MATERIAL" FROM CLEARING OPERATIONS SHALL BE REMOVED TO DISPOSAL AREA(S) OFF OF THE PROJECT SITE, UNLESS A "BURY PIT" SHALL BE LOCATED WHERE IMPONMENT OF SURFACE WATER MAY OCCUR.
- MATERIALS SHALL NOT BE DISPOSED OF BY BURNING UNLESS APPROVED BY THE LOCAL FIRE MARSHAL.

TREE REMOVAL AND PROTECTION

- TREES SHALL BE REMOVED FROM THE PROJECT ONLY WHERE THE AREA IS TO BE OCCUPIED BY ROAD AND SURFACED AREAS.
- TREES SHALL BE REMOVED FROM THE PROJECT SITE AS DIRECTED BY THE DEVELOPER.
- TREES SHALL BE REMOVED FROM THE PROJECT SITE WHERE THEY INTERFERE DIRECTLY WITH THE PLACEMENT OF STORM OR SANITARY SEWERS, AND THAT SUCH EXCAVATION IS OR WILL BE FATAL TO SUCH ADJACENT TREES.
- THE CONTRACTOR SHALL ENDEAVOR TO SAVE AND PROTECT TREES OF VALUE AND WORTH WHICH DO NOT IMPAIR CONSTRUCTION OF IMPROVEMENTS AS DESIGNATED. IN THE EVENT CUT OR FILL EXCEEDS 0.5 FEET OVER THE ROOT AREA, THE DEVELOPER SHALL BE CONSULTED WITH RESPECT TO PROTECTIVE MEASURES TO BE TAKEN, IF ANY, TO PRESERVE SUCH TREES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHOD FOR PROTECTION OF TOPS, TRUNKS AND ROOTS OF EXISTING TREES ON THE PROJECT SITE THAT ARE TO REMAIN. EXISTING TREES SUBJECT TO CONSTRUCTION DAMAGE SHALL BE BOXED, FENCED OR OTHER MATERIAL AND EQUIPMENT SHALL NOT BE STOCKPILED OR STORED WITHIN THE SPREAD OF BRANCHES. BRANCHES WHICH NEED TO BE REMOVED OR ARE BROKEN SHALL BE NEATLY TRIMMED AND SCARS SHALL BE COVERED WITH TREE PAINT.

STRIPPING OF TOPSOIL

- THE CONTRACTOR SHALL VERIFY THAT ALL TOPSOIL HAS BEEN REMOVED IN THE AREAS TO BE OCCUPIED BY ROAD, WALKS AND DESIGNATED BUILDING AREAS. TOPSOIL SHALL BE REMOVED TO A DEPTH OF SIX (6) INCHES OR DEEPER, IF NECESSARY, TO REMOVE ORGANIC MATTER WHERE REQUIRED.
- TOPSOIL SHALL BE KEPT SEPARATED FROM SUITABLE FILL MATERIALS AND SHALL NOT BE USED AS FILL UNDER PAVEMENT, BUILDING AREAS AND/OR FUTURE STRUCTURAL AREAS.
- TOPSOIL SHALL BE STORED AT A LOCATION WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION OPERATIONS. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE.
- TOPSOIL SHALL BE REASONABLY FREE FROM SUBSOIL DEBRIS AND STONES.

PAVEMENT CONSTRUCTION

- THE TOWN OF FISHERS THOROUGHFARE PLAN ORDINANCE AND SUBDIVISION CONTROL ORDINANCE SHALL APPLY TO WORKMANSHIP AND MATERIALS IN CONSTRUCTION OF SUBGRADE, PAVEMENT, CURBS AND WALKS.
 - PREPARE THE SUBGRADE IN ACCORDANCE WITH IDOH SECTION 207. NO TRAFFIC WILL BE PERMITTED ON THE PREPARED SUBGRADE PRIOR TO PAVING.
 - BITUMINOUS PAVEMENT IN ACCORDANCE WITH IDOH SECTION 403.
 - FINISHING EARTH GRADED SHOULDERS, DITCHES AND SLOPES IN ACCORDANCE WITH IDOH SECTION 208.

CONCRETE CURB AND WALKS

- SEE DETAIL SHEET FOR TYPE AND DETAILS.
- CONCRETE SHALL BE READY MIXED PORTLAND CEMENT CONFORMING TO A.S.T.M. C-150, AND WATER. AGGREGATES SHALL CONFORM TO A.S.T.M. C-33. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 4000 P.S.I. WHERE REQUIRED, REINFORCEMENT SHALL BE WELDED STEEL WIRE FABRIC CONFORMING TO A.S.T.M. A-185.
- ALL EXTERIOR CONCRETE SHALL CONTAIN 3% TO 6% AIR ENTRAINMENT.
- APPLICATION
 - PLACE CONCRETE ONLY ON A MOIST, COMPACT SUBGRADE OR BASE FREE FROM LOOSE MATERIAL. PLACE NO CONCRETE ON MUDDY OR FROZEN SUBGRADE IN ACCORDANCE WITH IDOH SECTION 604 AND 605.
 - CONCRETE SHALL BE DEPOSITED SO AS TO REQUIRE AS LITTLE REHANDLING AS PRACTICAL. WHEN CONCRETE IS TO BE PLACED AT AN ATMOSPHERIC TEMPERATURE OF 35 DEGREES F OR LESS, PARAGRAPH 702.10 OF THE I.S.H.C. SPECIFICATIONS SHALL APPLY.
 - EXCEPT AS OTHERWISE SPECIFIED, CURE ALL CONCRETE BY ONE OF THE METHODS DESCRIBED IN IDOH SECTION 501.17.
- TOP OF CASTING ELEVATIONS REFER TO THE CASTING'S RIM OR TOP OF CURB. THE CURB CONTRACTOR SHALL INSURE THAT CURB INLET CASTINGS ARE SET A PROPER ELEVATION PRIOR TO CONSTRUCTION OF ADJACENT CURB.

DEMOLITION

- THE CONTRACTOR SHALL EXCAVATE, DEMOLISH, REMOVE AND DISPOSE OF THE DEBRIS FROM THE AREAS SHOWN ON THE SITE DEVELOPMENT PLAN.
 - BUILDING WALLS.
 - FOUNDATIONS.
 - PAVEMENT (CONCRETE, ASPHALT AND BRICK).
 - CONCRETE SLABS.

- ALL MATERIAL AS A RESULT OF THE GENERAL DEMOLITION SHALL BE THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR'S LUMP SUM BID PRICE FOR THE DEMOLITION SHALL TAKE INTO ACCOUNT THE SALVAGEABLE VALUE OF MATERIALS AND SAID BID PRICE SHALL REFLECT SAID SAVINGS.
- THE CONTRACTOR SHALL BE REQUIRED TO DEMOLISH AND REMOVE DESIGNATED FOUNDATION WALLS, RETAINING WALLS, CURBING, CONCRETE SLABS, PAVING, TANKS, STRUCTURES, PIPES, MANHOLES AS SHOWN ON THE CONTRACT DOCUMENTS, ALL EXISTING BASEMENT FLOOR SLABS THAT ARE NOT REMOVED SHALL BE BROKEN UP SUFFICIENTLY TO PERMIT DRAINAGE THROUGH THE SLAB. ALL EXISTING BASEMENT WALLS, FOUNDATIONS, FLOOR SLABS, AND ETC. SHALL BE REMOVED TO AN ELEVATION SUCH THAT THEY WILL NOT SUPPORT PROPOSED FLOOR SLABS OR PAVEMENTS.
- THE CONTRACTOR SHALL OBTAIN FROM THE TOWN OF FISHERS, AND ALL OTHER APPLICABLE GOVERNMENTAL AUTHORITIES, NECESSARY PERMITS REQUIRED, A COPY OF SUCH PERMITS TO BE FURNISHED TO THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK REQUIRED HEREIN. THE CONTRACTOR SHALL FURTHER FURNISH TO THE OWNER PROOF THAT HE HAS COMPLIED WITH THE PROVISIONS OF THE MUNICIPAL CODE OF FISHERS, INDIANA.

UTILITIES

- ALL WATER LINES FROM INDIANAPOLIS WATER CO. MAIN TO ANY BUILDING SHALL BE INSTALLED OF MATERIAL AND WORKMANSHIP AS APPROVED WITH THE INDIANAPOLIS WATER CO.
- CONDUIT SHALL BE REQUIRED FOR ALL ELECTRICAL AND TELEPHONE LINES UNDER PAVED AREAS.
- COMPACTED GRANULAR BACKFILL SHALL BE REQUIRED FOR ALL CROSSINGS OF PAVED AREAS PER TOWN OF FISHERS.

SANITARY SEWER SPECIFICATIONS

SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION AS ADOPTED BY HAMILTON SOUTHEASTERN UTILITIES, INC. (SEE SHEET 902)

STORM SEWER SPECIFICATIONS

- STANDARD SPECIFICATIONS OF THE TOWN OF FISHERS AND INDIANA DEPARTMENT OF HIGHWAYS SHALL APPLY FOR ALL WORK AND MATERIALS. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH IDOH SECTION 715.
- ALL REINFORCED CONCRETE STORM SEWER PIPE (RCP) SHALL CONFORM TO ASTM DESIGNATION C-76 CLASS III. ALL HELICALLY CORRUGATED STEEL PIPE (HCSP) SHALL BE ALUMINIZED AND SHALL CONFORM AASHTO M36, 16 GAUGE IN ACCORDANCE WITH IDOH SECTION 907.
- BACKFILL AROUND ALL STRUCTURES AND CUTS UNDER PAVED AREAS WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH IDOH SECTION 21.1 AND 715.
- SEE STANDARD DETAIL SHEET FOR CONSTRUCTION DIMENSIONS OF STORM STRUCTURES. MANHOLE, INLETS AND CATCH BASINS SHALL BE IN ACCORDANCE WITH IDOH SECTION 720. PRECAST CONCRETE AND STEEL FOR MANHOLES AND INLETS SHALL BE IN ACCORDANCE WITH ASTM C-478.
- STORM SEWER DISCHARGE AREAS AND INVERTS ARE TENTATIVE AND ARE SUBJECT TO FIELD MODIFICATIONS BY THE ENGINEER OR HIS REPRESENTATIVE. THE CONTRACTOR WILL BE REIMBURSED FOR ANY ADDITIONAL LABOR AND MATERIALS NECESSARY TO COMPLETE ANY MODIFICATIONS ACCORDING TO THE UNIT PRICES SUBMITTED BY THE CONTRACTOR OR THE CONTRACT AMOUNT.
- THE CONTRACTOR SHALL PROVIDE AT LEAST 2' OF COVER OVER ALL STORM SEWERS, UNLESS OTHERWISE INDICATED BY PLANS.
- RIP RAP SHALL BE A MINIMUM OF 1/3 CUBIC FOOT IN SIZE AND A MINIMUM 18" IN DEPTH. DIMENSIONS FOR RIP RAP IN THESE PLANS ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL BEST PLACEMENT OF RIP RAP SHALL BE DETERMINED BY FIELD CONDITIONS AND SHALL BE IN ACCORDANCE WITH IDOH SECTION 616.
- ALL DRAINAGE PIPE AND DITCH OUTFALLS TO RECEIVING STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DRAWINGS, SUBJECT HOWEVER, TO ANY MODIFICATION REQUIRED BY THE ENGINEER AT THE TIME INSTALLATION IS COMPLETED AND TO ANY ADJUSTMENTS NEEDED FOR FIELD CONDITIONS NOT ADEQUATELY ANTICIPATED BY THE DESIGN DRAWING.
- CASTINGS SHALL BE AS SHOWN ON DETAIL SHEET FOR MANUFACTURER, TYPE AND NUMBER. ALL CASTINGS SHALL BE NEENAH OR EAST JORDAN APPROVED EQUAL.

GENERAL NOTES

- BEARING, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT ACTUAL RECORDED INFORMATION. SEE RECORDED PLAT FOR EXACT INFORMATION.
- ALL DISTURBED GROUND SHALL BE PROVIDED WITH EROSION CONTROL METHODS IMMEDIATELY SUBSEQUENT TO DISTURBANCE, SUBJECT TO WEATHER (SEE SHEETS "C203", "C204" AND EROSION CONTROL SPECIFICATIONS).
- THE FOLLOWING UTILITY COMPANIES WILL PROVIDE DESIGN AND LAYOUT OF THEIR RESPECTIVE UTILITIES . . .
 - ELECTRIC - CINERGY
 - TELEPHONE - AMERITECH
 - GAS - INDIANA GAS CO.
- SERVICE WALKS TO BE INSTALLED ON BOTH SIDES OF STREET (BY OTHERS) AND SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4'-0" IN WITH (SEE TYPICAL SECTION, SHEET NO. C801).
- EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS, AND PERPENDICULAR SIDEWALKS AT 5'-0" INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20'-0" OR LESS.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- RCP = REINFORCED CONCRETE PIPE CLASS III
PVC = POLYVINYL CHLORIDE
- SANITARY SEWER - ASTM D-3034, SDR-35
HCSP = HELICALLY CORRUGATED STEEL PIPE - 16 GAUGE ALUMINIZED
- T.C. = TOP OF CURB = TOP OF CASTING
- 20 LINEAL FEET OF 4" SUBSURFACE DRAIN REQUIRED EACH WAY (UPGRADE) FROM ALL STORM INLETS/UNLESS OTHERWISE NOTED ON PLANS).
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT "SUBDIVISION CONTROL ORDINANCE" AS PUBLISHED BY THE TOWN OF FISHERS.
- REINFORCED CONCRETE STORM SEWER SHALL HAVE "O" RING GASKETS UNLESS OTHERWISE NOTED ON PLANS.
- TRAFFIC CONTROL AND STREET SIGNS TO BE INSTALLED IMMEDIATELY SUBSEQUENT TO PLACEMENT OF ASPHALT BINDER.

MPA
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Civil Engineers & Land Surveyors
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SITE SPECIFICATIONS
FISHERS TRADE CENTER
PHASE ONE
FISHERS, INDIANA

REVISIONS

NO.	DESCRIPTION

MICHAEL D. LITTLE
REGISTERED PROFESSIONAL ENGINEER
No. 21232
STATE OF INDIANA

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