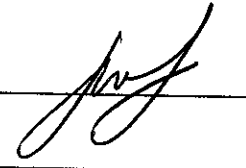
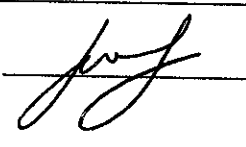


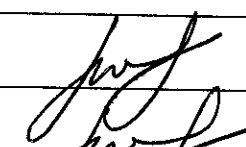
Drain: ELKHORN WILSON **Drain #:** 126
Improvement/Arm: NOBLESVILLE HIGH SCHOOL ARM
Operator: J. WILSON **Date:** 7-19-04
Drain Classification: Urban/Rural **Year Installed:** 1994

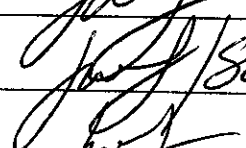
GIS Drain Input Checklist


- Pull Source Documents for Scanning
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Stamp Plans
- Sum drain lengths & Validate
- Enter Improvements into Posse
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Check Database entries for errors




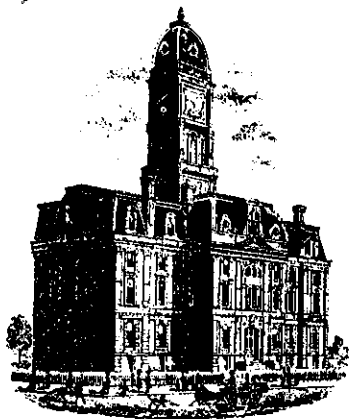












SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

December 13, 1993

TO: Hamilton County Drainage Board

RE: Elwood Wilson Drain

Attached is a petition for the Noblesville School Board for the reconstruction of the Elwood Wilson Drain. The petition is accompanied by plans for both the onsite and offsite work. This proposal was necessitate by the reconstruction of the new Noblesville High School, located on the old county farm property. (Cumberland Road and Monument Street)

The onsite work consists of the relocation of the existing tile at the North West corner of Cumberland Road and Monument Street. Plans showing the relocation are those showing the onsite construction as prepared by the Odle McGuire & Shook Corporation, Sheet SD-5. Approximately 330 feet of 18" tile will be replaced with 710 feet of 18" RCP. This is the portion between Structures 250, 117, 119 and 259. The surface water between Cumberland Road and Monument Street is to be enclosed in pipe. This will consist of 387 feet of 4x8 CMPA. I recommend that this become part of the regulated drain. The Fishers-County Farm arm shall be extended to the existing Gascho-County Farm Drain. This will consist of 300 feet of 18" RCP. The remainder of the Fishers-County Farm Arm will remain as is. The cost for this work is included in the onsite cost for the school construction.

The offsite plans consists of two segments. As shown on the offsite plans by Marchris/Moore Engineers, 1451 feet of 42" RCP and 1113 feet of 36" RCP is to be installed from the outlet of the retention facility to STA 5+40 on Sheet #3. This is to become part of the regulated drain and will serve only the school property.

The second portion of the offsite shall consist of a surface

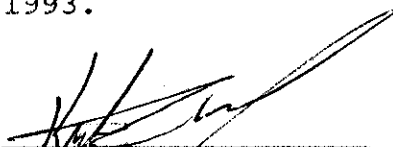
water swale to be constructed and/or improved between Monument Street and the open Elwood Wilson Drain South of Cherry Street. This portion includes new structures under Conner Street, Monument Street and Cherry Street.

The cost estimate for the project is as follows:

Pipe and Swale	\$ 367,214.00
Conner Street	170,000.00
Monument Street	45,000.00
Cherry Street	56,000.00
TOTAL	\$ 638,214.00

The cost of the crossing under State Road 32/38 (Conner Street) shall be paid by the State of Indiana. The cost of the Monument Street and Cherry Street crossings shall be borne by the City of Noblesville. The remainder of the cost is to be borne by the Noblesville School Corporation.

I recommend a hearing for this item be set for ~~December 27,~~ ^{January} 1993.


Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

September 7, 1994

To: Hamilton Co. Drainage Board

Re: Elwood Wilson Drain
Noblesville High School Reconstruction

This report is a revision to my original report dated December 13, 1993. The Board at its meeting on January 24, 1994 held a hearing for the reconstruction of the Elwood Wilson Drain per the afore mentioned report. At the hearing the Board approved the new 42" tile from the schools detention facility north of Monument Street to the point the line outlets into the existing surface water swale north of Cherry Street. However, at that time the Board tabled the portion of the project concerning the regrading of the surface water swale between Cherry Street and Monument Street along with new structures under S.R. 32, Monument & Cherry Streets.

After meeting with the parties involved, I have concluded that the State Highway will resist any effort to enlarge the structure for surface water under S.R. 32. Also, the City of Noblesville has pointed out that due to the fact the County has a Cumulative Bridge Fund, per IC 8-16-3-1, the County must fund the replacement structures under Cherry & Monument Streets. During discussions with the County Commissioners and County Highway, I have been informed that these funds are needed elsewhere and there is no interest from the County to replace the two structures for the proposed project.

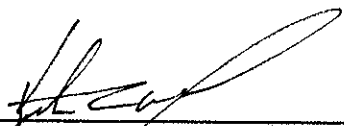
After several months, I now believe a compromise solution has been reached. This solution revises the plan as submitted in January in regard to the surface water swale and the crossings. The 42" storm sewer will not be affected by the revision.

The revised plan calls for the existing Cherry Street and S.R. 32 crossings to remain unchanged. The regrading of the surface water swale between Cherry Street and S.R. 32 is to be omitted. The Monument Street structure will be installed by the School's contractor. The surface waterway between S.R. 32 and Monument Street will also be constructed by the School's contractor. The waterway as constructed will be modified by decreasing the bottom width 7-8 feet, side slopes laid back to a 4:1, and removing the gabion baskets between Sta. 9+85 to 10+92. Attached is proposal request No. 1 dated 07-20-94 for the NHS off-site drainage contract and proposal request No. 32 dated 07-20-94 for the on-site contract which goes into detail for the changes.

It should be noted that the design for the High School drainage project never addressed increasing or decreasing the flow carrying capabilities of the Elwood Wilson Drain. Only the course of the water-way was altered, maintaining an exact equal drainage cross section. For short lengths on the High School property, the Elwood Wilson Drain was enclosed and made subterranean by using concrete pipe and a 6000 ft. culvert of the same flow carrying capacity as the open ditch. This encasement was done for cosmetic purposes.

Considering all the above, it should be stated that the drainage ditch still only has the capacity to carry what it could before these improvements. The work being done by the School Corporation's Contractors can only help the flooding situation by improving the profile/pitch of the existing drain route. The improvements do not aggravate the existing condition. Any flooding along the drain way that occurred before the improvements will likely still occur after these improvements. The School Corporation could never be judged responsible for flood damage as a result of these improvements.

I recommend the Board approve the project as revised above.



Kenton C. Ward,
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Noblesville High School
On-Site and Off-Site Improvements - Elwood Wilson Drain Reconstruction

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: Timothy V. Moore Date: 2/14/97

Type or Print Name: Timothy V. Moore

Business Address: 9245 N. Meridian St., Suite 105

Indianapolis, IN 46260-1812

Telephone Number: (317) 848-5045

SEAL



INDIANA REGISTRATION NUMBER

PE60013815



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

June 12, 1998

Re: Elwood Wilson Drain: Noblesville High School Arm

Attached are as-builts, certificate of completion & compliance, and other information for Noblesville High School Arm. 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 September 7, 1994. The changes are as follows:

ONSITE DRAINAGE				
STR. 1 (EXIST.)	778.37	774.86		
STR. 2 (EXIST.)		774.66		
STR. 274	775.05	771.56		
STR. 271	775.08	771.04		
STR. 3	773.38	769.23		
STR. 259	773.6	764.95	18" RCP	320
STR. 259	774.05	767.56		
STR. 259 A	773.6	764.95	18" RCP	45
STR. 259 A	773.6	764.95		
STR. 260	772.18	764.25	18" RCP	350
OFFSITE DRAINAGE				
STR. 1A		762.3		
STR. 1	768.93	762.4	42" RCP	342
STR. 1	768.93	762.4		
STR. 2	769.61	762.4	42" RCP	102
STR. 2	769.61	762.4		
STR. 3	769.76	762.76	42" RCP	423

STR. 3	769.76	762.81		
STR. 4	769.74	762.89	42" RCP	261.6
STR. 4	769.74	762.89		
STR. 5	768.61	763.02	42" RCP	323.5
STR. 5	768.61	763.21		
STR. 3A	768.77	764.05	36" RCP	577.3
STR. 3A	768.77	764.05		
STR. 6	771.38	764.34	36" RCP	428.3
STR. 6	771.38	764.34		
STR. 253	771.92	766.37	36" RCP	106
STR. 253	771.92	766.37		
STR. 256		766.57	36" RCP	28
Other Drain:				
4X8 CMPA		387		
SURFACE SWALE	0	ADDITIONAL		

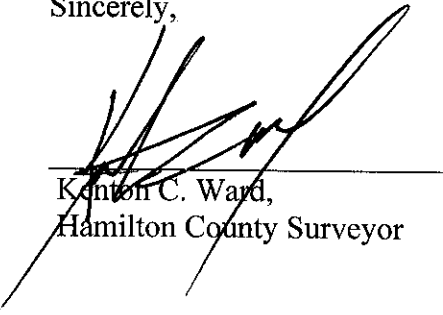
There was approximately 330 feet of existing tile replaced.

The length of the additional drain due to the changes described above is now **3363 feet**.

The non-enforcement for Noblesville H. S. parcel 11-07-31-00-00-009.000 was approved by the Board at its meeting on October 14, 1996 and recorded under instrument #9609644124.

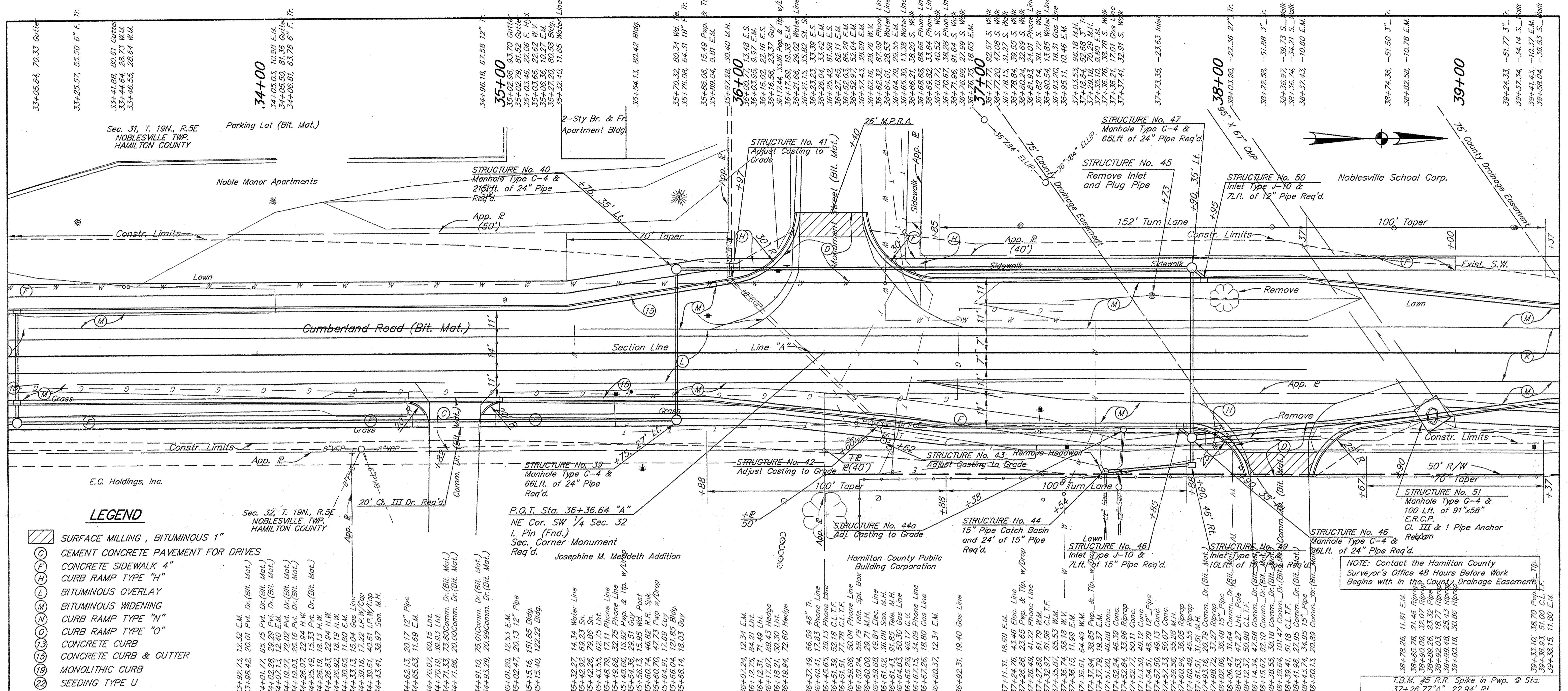
I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,



Kanton C. Ward,
Hamilton County Surveyor

KCW/slm



LEGEND

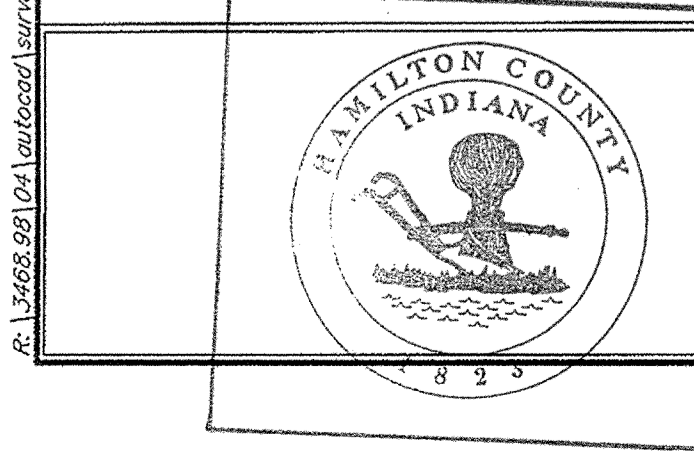
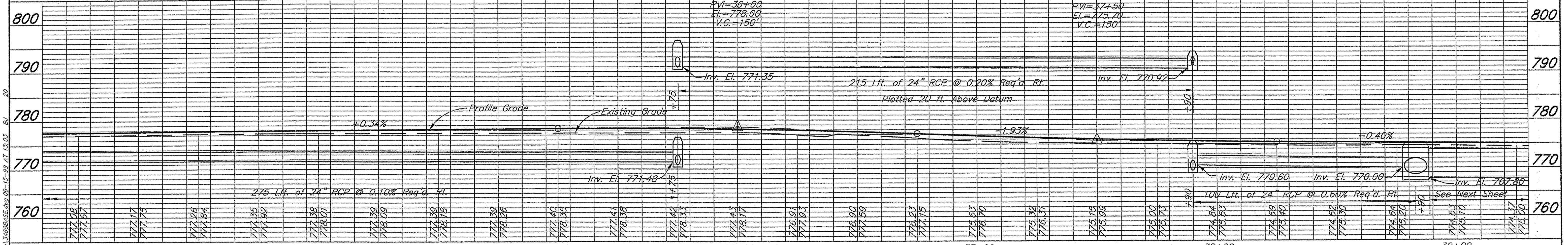
- (C) SURFACE MILLING, BITUMINOUS 1"
- (F) CEMENT CONCRETE PAVEMENT FOR DRIVES
- (H) CONCRETE SIDEWALK 4"
- (L) CURB RAMP TYPE "H"
- (M) BITUMINOUS OVERLAY
- (N) BITUMINOUS WIDENING
- (O) CURB RAMP TYPE "N"
- (S) CURB RAMP TYPE "O"
- (15) CONCRETE CURB
- (16) CONCRETE CURB & GUTTER
- (19) MONOLITHIC CURB
- (22) SEEDING TYPE U

Sec. 31, T. 19N., R. 5E
NOBLESVILLE TWP.
HAMILTON COUNTY

Sec. 32, T. 19N., R. 5E
NOBLESVILLE TWP.
HAMILTON COUNTY

P.O.T. Sta. 36+36.64 "A"
NE Cor. SW 1/4 Sec. 32
I. Pin (Fnd.)
Sec. Corner Monument
Req'd. Josephine M. Mendeth Addition

NOTE: Contact the Hamilton County Surveyor's Office 48 Hours Before Work Begins with in the County Drainage Easement



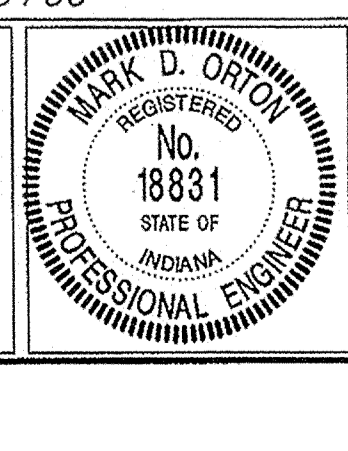
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Entry Date: 7-20-04

Entered by: [Signature]

PK IN PMP 40.68
PK IN 52.31
FACE COR. POST CCF

P.O.T. Sta. 36+36.64 "A"
IP MON. (Fnd.)



RECOMMENDED FOR APPROVAL: [Signature] 6/14/09
DESIGN ENGINEER DATE

DESIGNED: M.O. DRAWN: J.M.
CHECKED: M.O. CHECKED: M.O.

**CUMBERLAND ROAD
NOBLESVILLE, INDIANA**

Butler, Fairman and Seufert Inc.
INDIANAPOLIS ENGINEERS INDIANA

HORIZONTAL SCALE 1"=20'	FILE 3468
VERTICAL SCALE 1"=20'	DESIGNATION
SURVEY BOOK 272	SHEET 9 OF 36
CONTRACT	PROJECT

SITE IMPROVEMENTS

FOR

NOBLESVILLE HIGH SCHOOL

OFF-SITE

Post Construction Survey

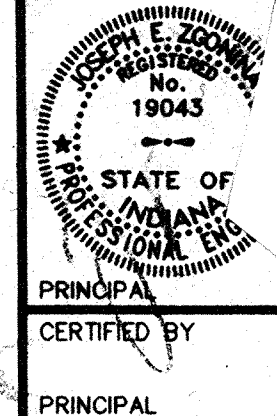
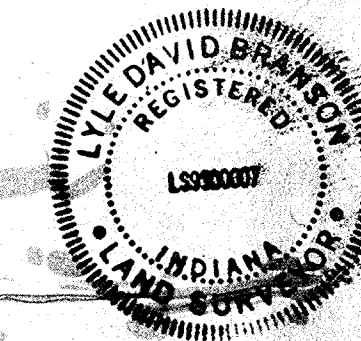
ELWOOD WILSON DRAINAGE EASEMENT
IMPROVEMENTS - CHERRY STREET TO
MONUMENT STREET
NOBLESVILLE, INDIANA

Record Drawing only for the top of casting, invert elevations and length of pipe. Slope percentage represents a calculated figure and is for general information only.

Lyle D. Branson 2/11/97
Lyle D. Branson Date

USI Consultants
5332 N. Temple Ave
Indianapolis, IN 46220

Reg. Land Surveyor
No. 9300007
State of Indiana

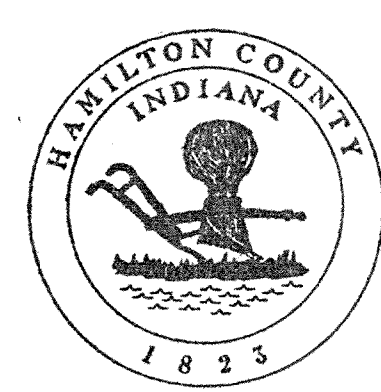


PRINCIPAL CERTIFIED BY

PROJECT ENGINEER CERTIFIED BY

PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
	91-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
△	12-97	RECORD DRAWINGS



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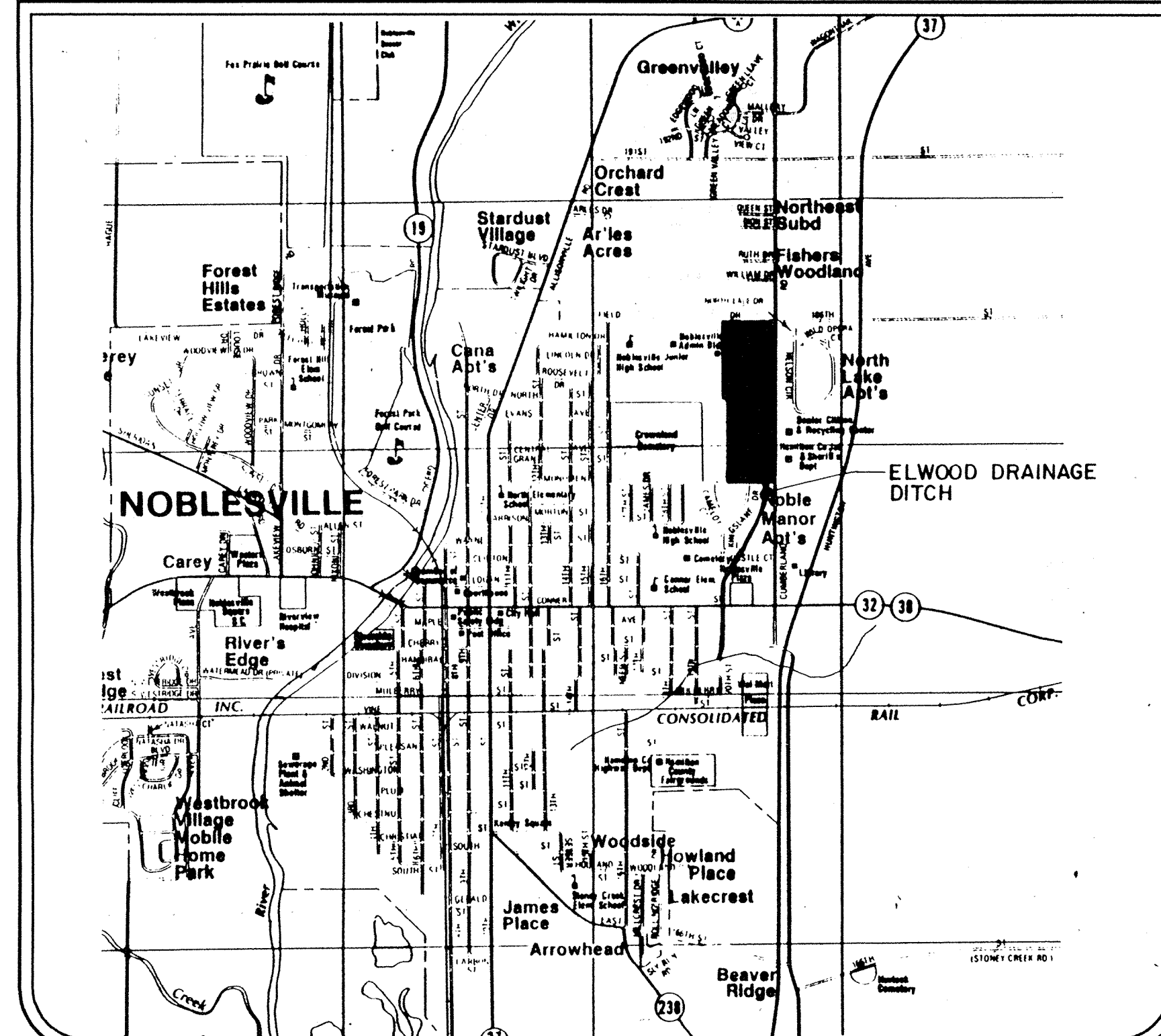
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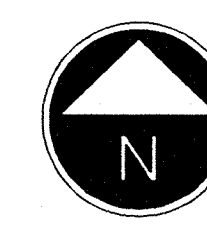
INDEX

- TITLE SHEET
- PLAN & PROFILE—STA. 0+00 TO 5+00
- PLAN & PROFILE—STA. 5+00 TO 10+00
- PLAN & PROFILE—STA. 10+00 TO 15+00
- PLAN & PROFILE—STA. 15+00 TO 20+00
- PLAN & PROFILE—STA. 20+00 TO 25+00
- PLAN & PROFILE—STA. 25+00 TO 30+00
- CROSS SECTIONS—STA. 0+00 TO 5+00
- CROSS SECTIONS—STA. 5+50 TO 10+00
- CROSS SECTIONS—STA. 10+50 TO 15+00
- CROSS SECTIONS—STA. 15+50 TO 20+00
- CROSS SECTIONS—STA. 20+50 TO 25+00
- CROSS SECTIONS—STA. 25+50 TO 30+00
- CULVERT AT CHERRY STREET
- CULVERT AT CONNER STREET
- CULVERT AT MONUMENT STREET
- DETAILS & PROJECT SPECIFICATIONS
- TOPOGRAPHIC SURVEY BY WEIHE ENGINEERS, INC.
- TOPOGRAPHIC SURVEY BY WEIHE ENGINEERS, INC.
- TOPOGRAPHIC SURVEY BY WEIHE ENGINEERS, INC.

LOCATION MAP



SECTION 31, TOWNSHIP 19 NORTH, RANGE 5 EAST
HAMILTON COUNTY, INDIANA



LEGEND

EXISTING	DESCRIPTION	PROPOSED
	SANITARY SEWER	
	STORM SEWER	
	WATER MAIN	
	MANHOLE	
	CATCH BASIN	
	VALVE VAULT	
	PAVEMENT	
	CURB & GUTTER	
	FIRE HYDRANT	
	GUTTER FLOWLINE ELEV. FL800.00	
	TOP OF CURB ELEV. TC800.50	
	FLARED END SECTION	
	CURB INLET	
	CONTOURS 800	
	STORM CULVERT W/HEADWALL	

BENCHMARKS

- T.B.M. 1 - LARGE NAIL SET IN EAST SIDE OF A POWER POLE LOCATED ON THE SOUTH SIDE OF MONUMENT STREET, 245'± WEST OF CUMBERLAND ROAD - ELEVATION 781.69
- T.B.M. 2 - LARGE NAIL SET IN 42" HACKBERRY TREE LOCATED 600'± SOUTH OF MONUMENT STREET - ELEVATION 772.13
- T.B.M. 3 - P.K. NAIL SET IN POWER POLE LOCATED 150' NORTH OF THE DOLLAR GENERAL STORE - ELEVATION 771.47
- T.B.M. 4 - SOUTHEAST ANCHOR BOLT ON SELF SERVICE STORAGE METAL/PLASTIC SIGN LOCATED 200'± NORTH OF STATE ROAD (38/32) (CONNER STREET) - ELEVATION 774.13

"Holey Moley" says,
"DON'T DIG BLIND"

Call Monday through Friday-7 AM to 6 PM
1-800 1-800
382-5544 428-5200
Within Indiana Outside Indiana

NOBLESVILLE
HIGH SCHOOL
OFF-SITE

ELWOOD WILSON DRAINAGE EASEMENT
IMPROVEMENTS - CHERRY STREET TO
MONUMENT STREET
NOBLESVILLE, INDIANA

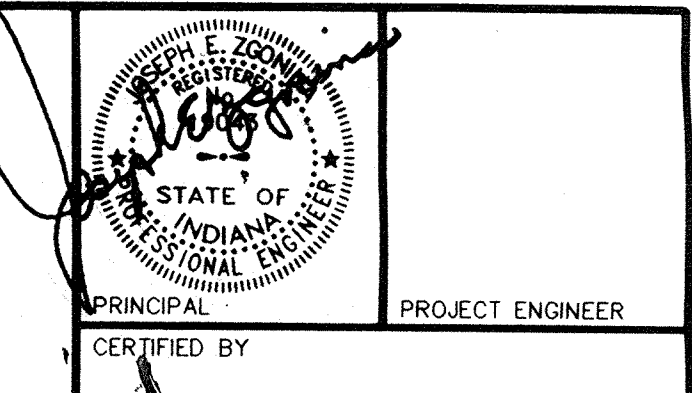
marchris/moore associates
of indiana
consulting engineers

9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

FILED
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE: TITLE SHEET

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SCALE	NO SCALE		
JOB NO.	93-011		1 of 20
DRAWN BY	S.WEBER		



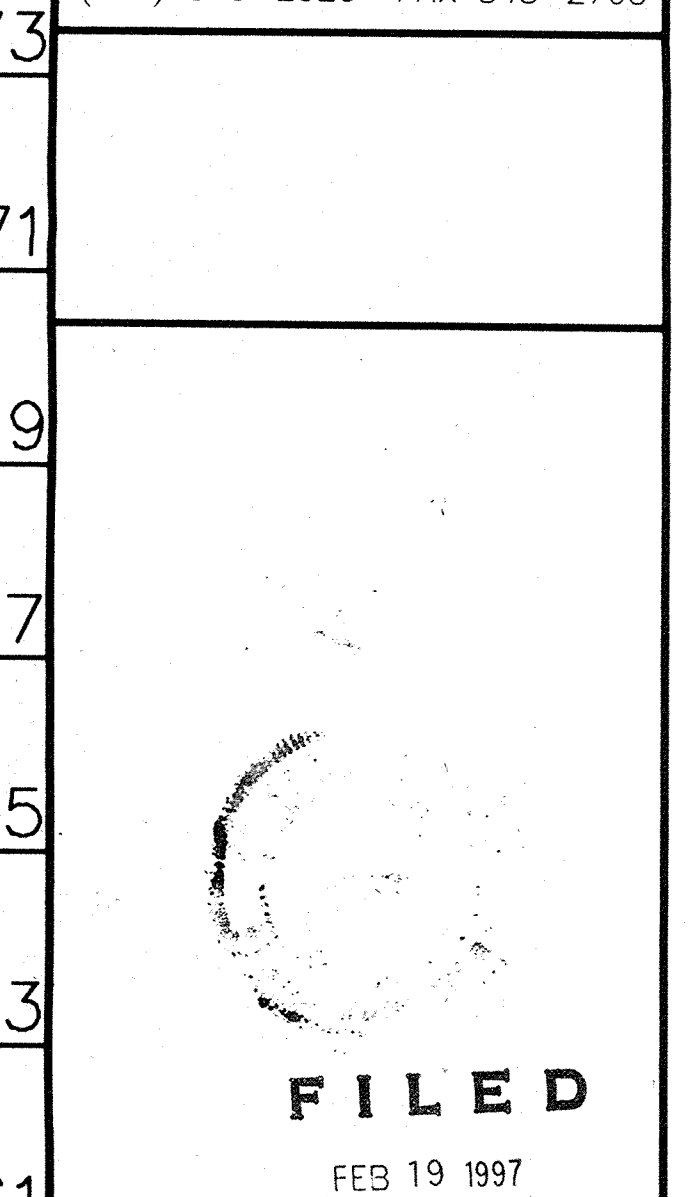
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CERTIFIED BY	PRINCIPAL	
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PROJECT DESIGNER		
REVISIONS		
MARK	DATE	DESCRIPTION
SWJ	9-1-93	OFFICE REVIEW
	11-15-93	OFFICE REVIEW
	6-2-94	REVISED FOR NEW STATIONING.
	1-28-97	REDOED DRAWINGS

**NOBLESVILLE
HIGH SCHOOL
OFF-SITE**

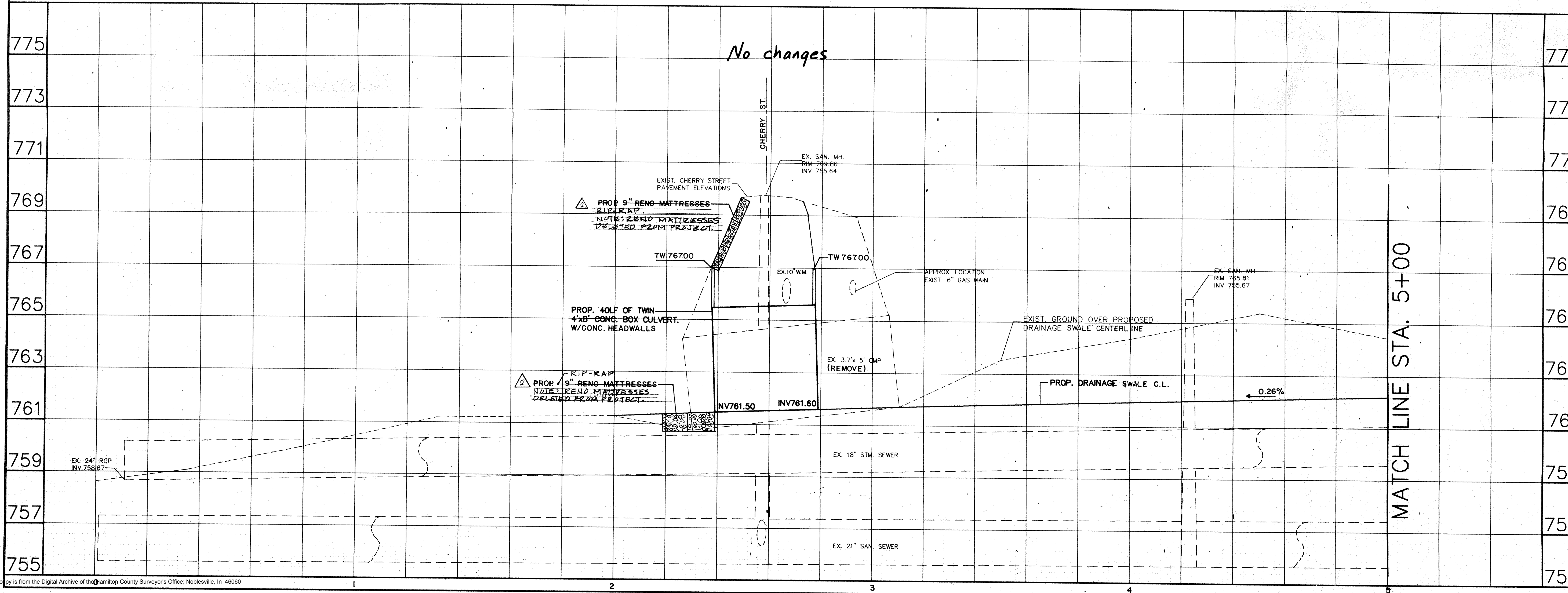
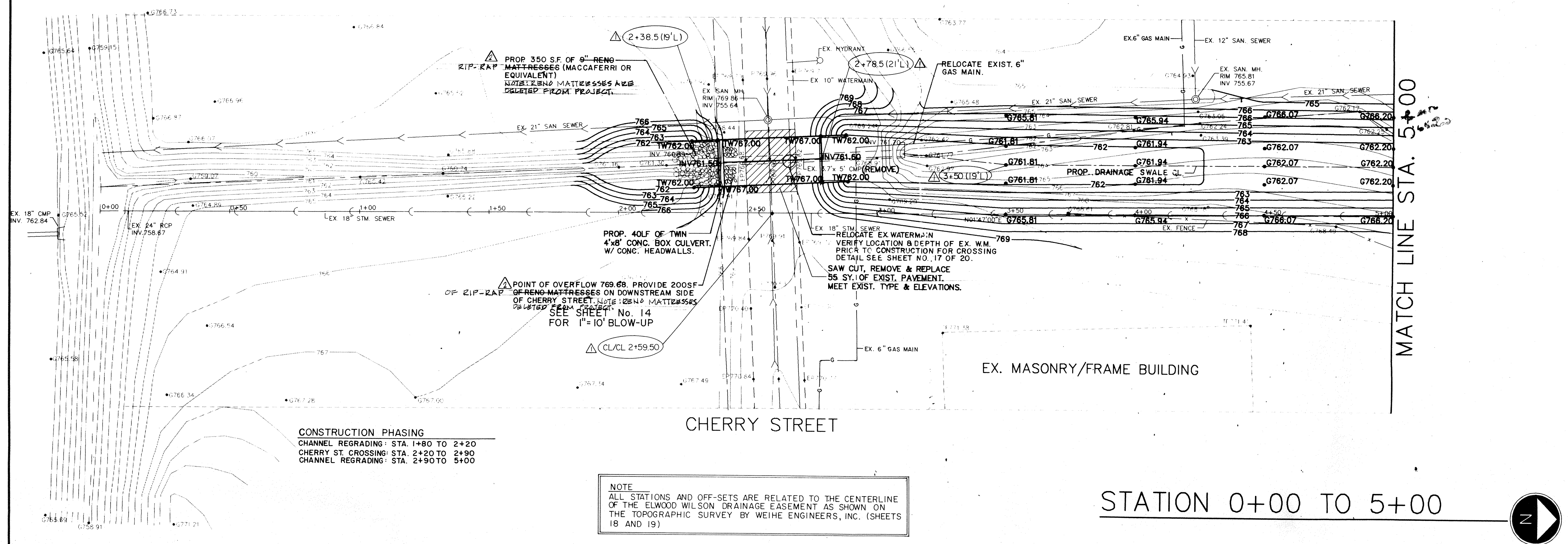
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IMPROVEMENTS - CHERRY STREET TO
MONUMENT STREET
NOBLESVILLE, INDIANA

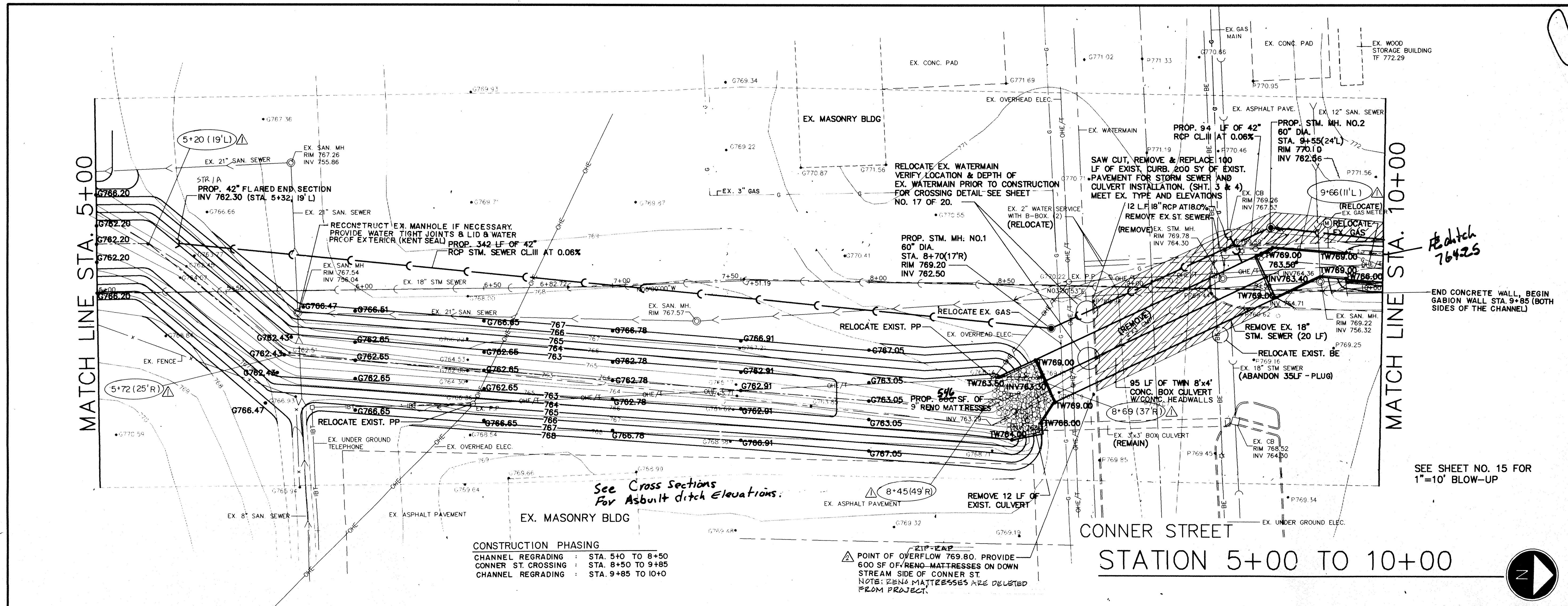
**marchris/moore associates
of indiana
consulting engineers**

9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765



TITLE:	PLAN AND PROFILE STATION 0+00 TO STATION 5+00	
DATE	7-22-93	SHEET NO.
SCALE	1"=20'(HORIZ) 1"=2'(VERT)	2 of 20
JOB NO.	93-011	
DRAWN BY	S.WEBER	





PROFESSIONAL SEAL
 STATE OF INDIANA
 SURVEYOR
 No. 10330
 S. WEBER
 PROJECT ENGINEER

PRINCIPAL PROJECT ENGINEER
 CERTIFIED BY
 PRINCIPAL
 PROJECT ENGINEER
 CERTIFIED BY
 PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
SJW	9-1-93	OFFICE REVIEW
	11-15-93	OFFICE REVIEW
	6-2-94	REVISED FOR NEW STATIONING
	1-28-97	RECORD DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
 ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
 NOBLESVILLE, INDIANA

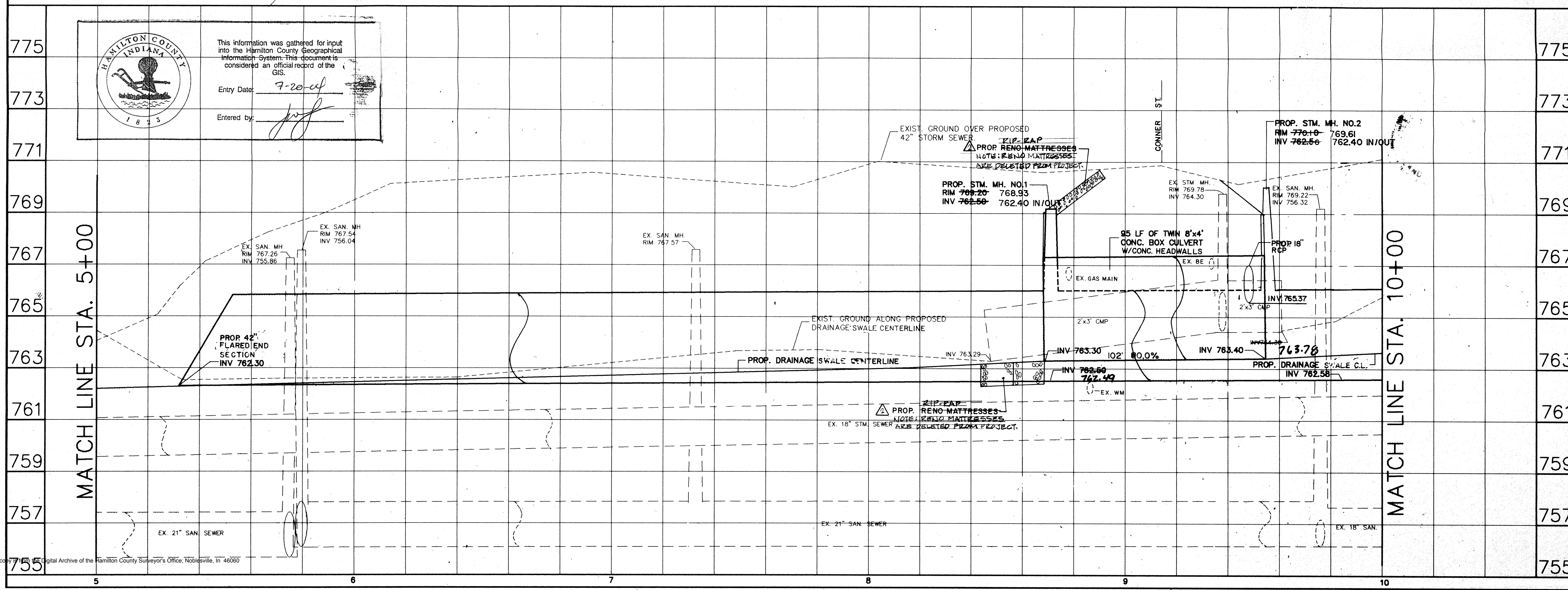
marchis/moore associates of indiana consulting engineers
 9245 North Meridian Street Suite 105
 Indianapolis, In 46260-1812
 (317) 843-2520 FAX 848-2765

POSIT. CONSTRUCTION SURVEY

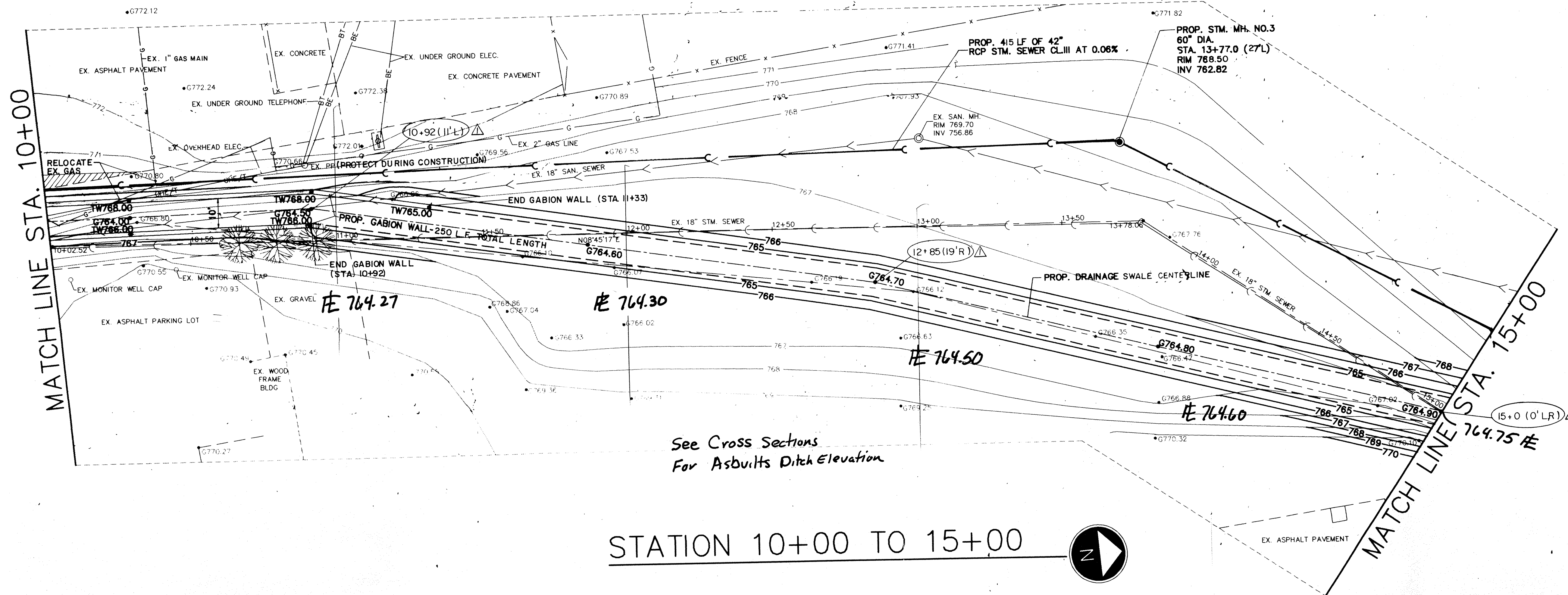
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 OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE: PLAN AND PROFILE STATION 5+00 TO STATION 10+00

DATE: 7-22-93 SHEET NO. 3 of 20
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 JOB NO. 93-011
 DRAWN BY S.WEBER

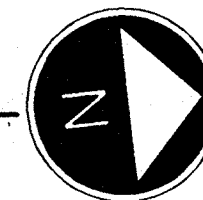


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 Entry Date: 7-20-97
 Entered by: [Signature]



See Cross Sections
For Asbuitts Ditch Elevation

STATION 10+00 TO 15+00



STATE OF INDIANA
SURVEYOR
PROJECT ENGINEER

CERTIFIED BY
PRINCIPAL
PROJECT ENGINEER
CERTIFIED BY
PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
SWJ	9-1-93	OFFICE REVIEW
	11-15-93	OFFICE REVIEW
Δ	6.2.94	REVISED FOR NEW STATIONING
Δ	1-28-97	RECORD DRAWINGS

**NOBLESVILLE
HIGH SCHOOL
OFF-SITE**
ELWOOD WILSON DRAINAGE EASEMENT
IMPROVEMENTS - CHERRY STREET TO
MONUMENT STREET
NOBLESVILLE, INDIANA

marchris/moore associates
of indiana
consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

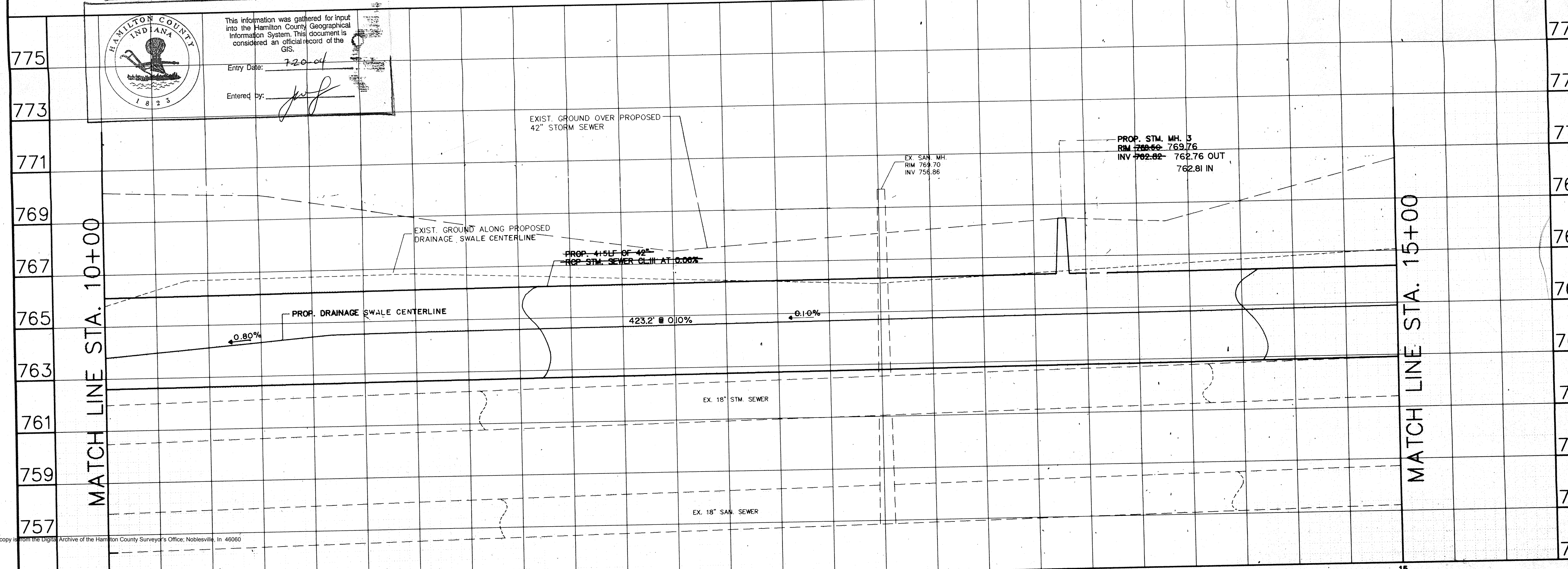
POST CONSTRUCTION
SURVEY



FILED
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
PLAN AND PROFILE
STATION 10+00 TO
STATION 15+00

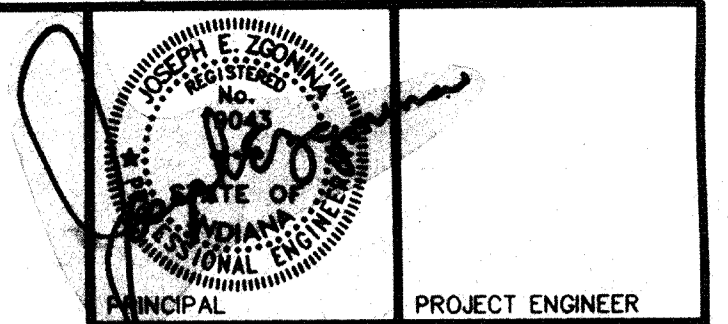
DATE 7-22-93 SHEET NO.
SCALE 1"=20'(HORIZ)
1"=2'(VERT) 4 of 20
JOB NO. 93-011
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HAMILTON COUNTY
INDIANA
1823

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Entry Date: 7-20-04
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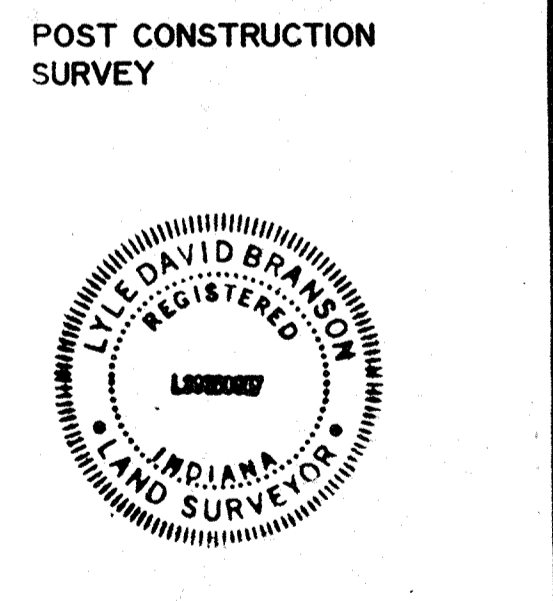
PRINCIPAL BY
PROJECT ENGINEER
CERTIFIED BY
PRINCIPAL
PROJECT ENGINEER
CERTIFIED BY
PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
△	6-2-94	REVISION FOR NEW STATIONING.
△	7-22-93	REVISION DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

marchris/moore associates of indiana consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

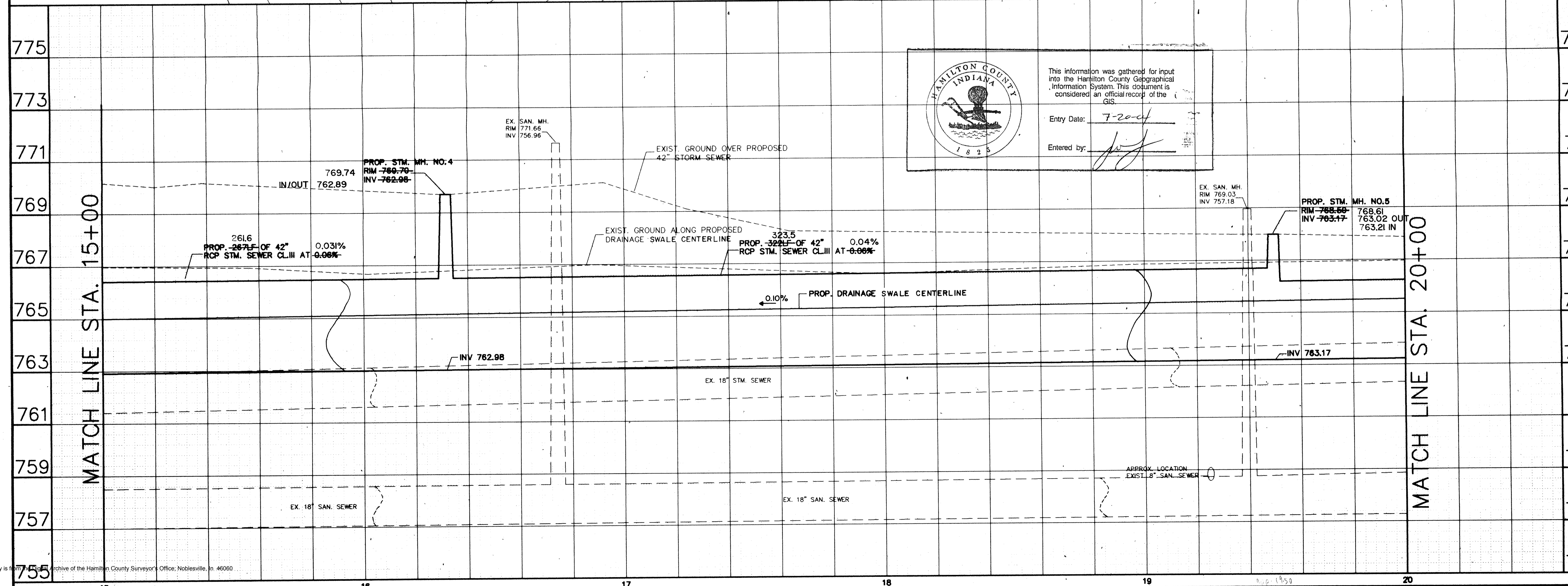
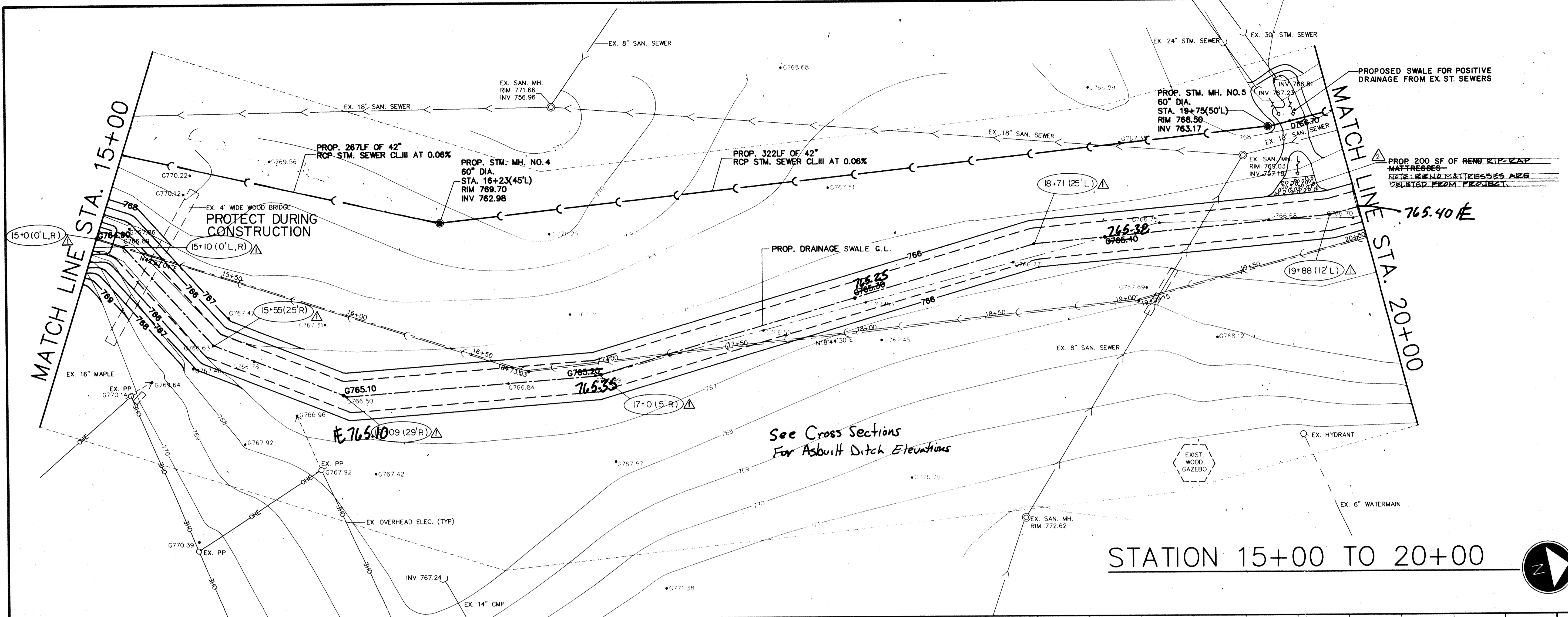
POST CONSTRUCTION SURVEY



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TITLE:
PLAN AND PROFILE
STATION 15+00 TO STATION 20+00

DATE 7-22-93 SHEET NO. 5 of 20
SCALE 1"=20'(HORIZ) 1"=2'(VERT)
JOB NO. 93-011
DRAWN BY S. WEBER

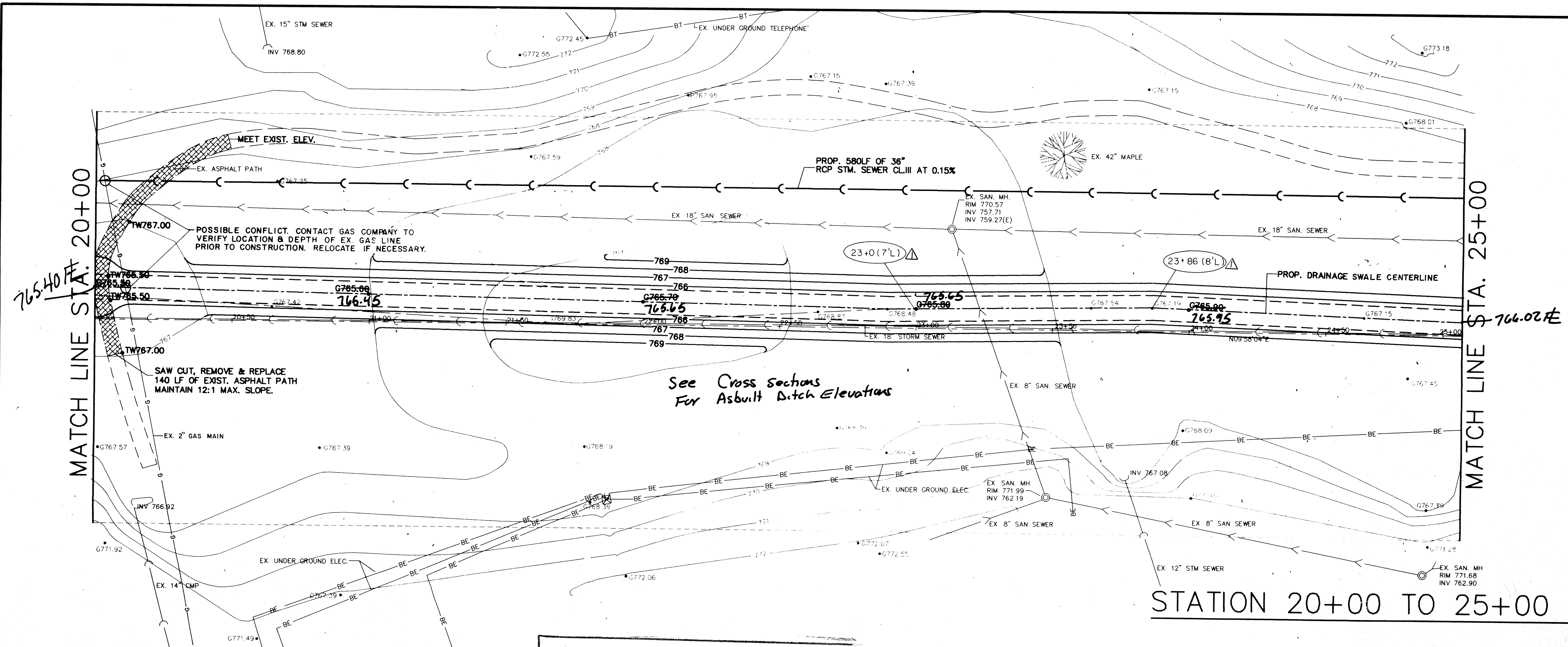


HAMILTON COUNTY INDIANA

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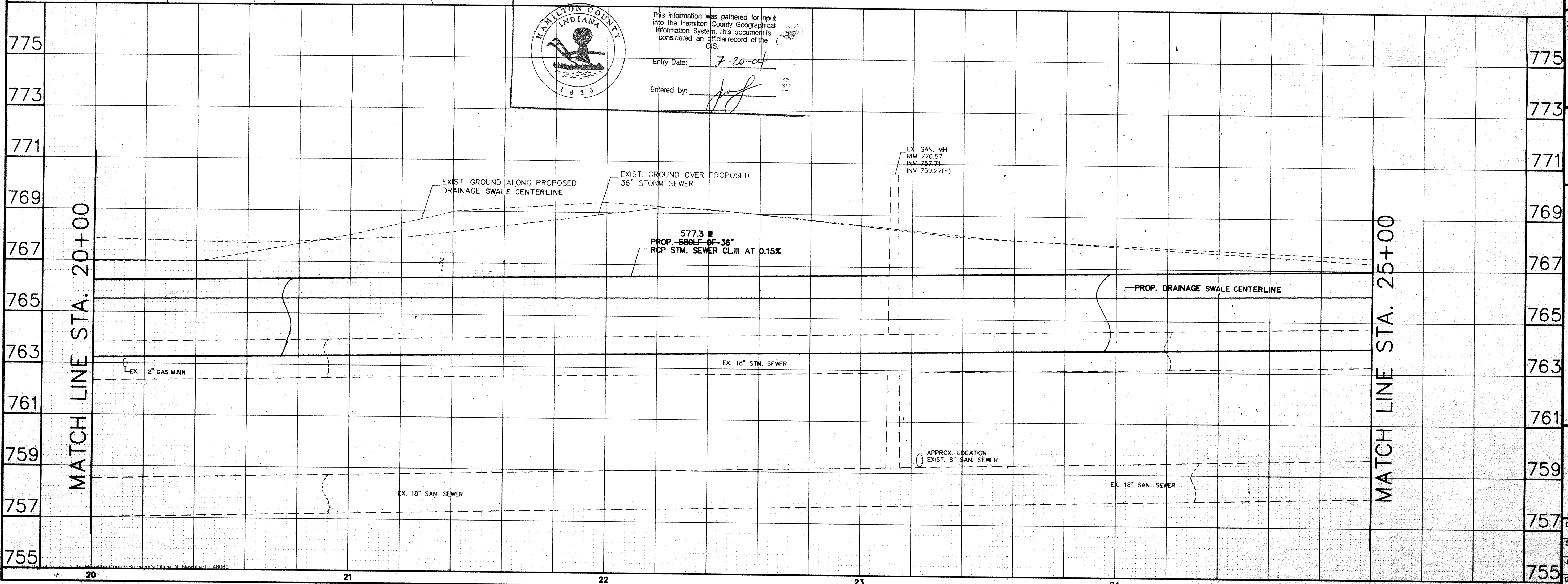
Entry Date: 7-22-93
Entered by: [Signature]

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See Cross sections
For Asphalt Ditch Elevations

STATION 20+00 TO 25+00



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Entry Date: 7-20-04

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PROJECT ENGINEER
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PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	PER OFFICE REVIEW
△	6-2-94	REVISION FOR NEW STATIONING
△	12-97	REGARD DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

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POST CONSTRUCTION SURVEY.

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TITLE:
PLAN AND PROFILE
STATION 20+00 TO
STATION 25+00

DATE	7-22-93	SHEET NO.
SCALE	1"=20'(HORIZ) 1"=2'(VERT)	6 of 20
JOB NO.	93-011	
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FOR CONTINUATION SEE MARCHRIS/MOORE ON-SITE ENGINEERING DRAWINGS.

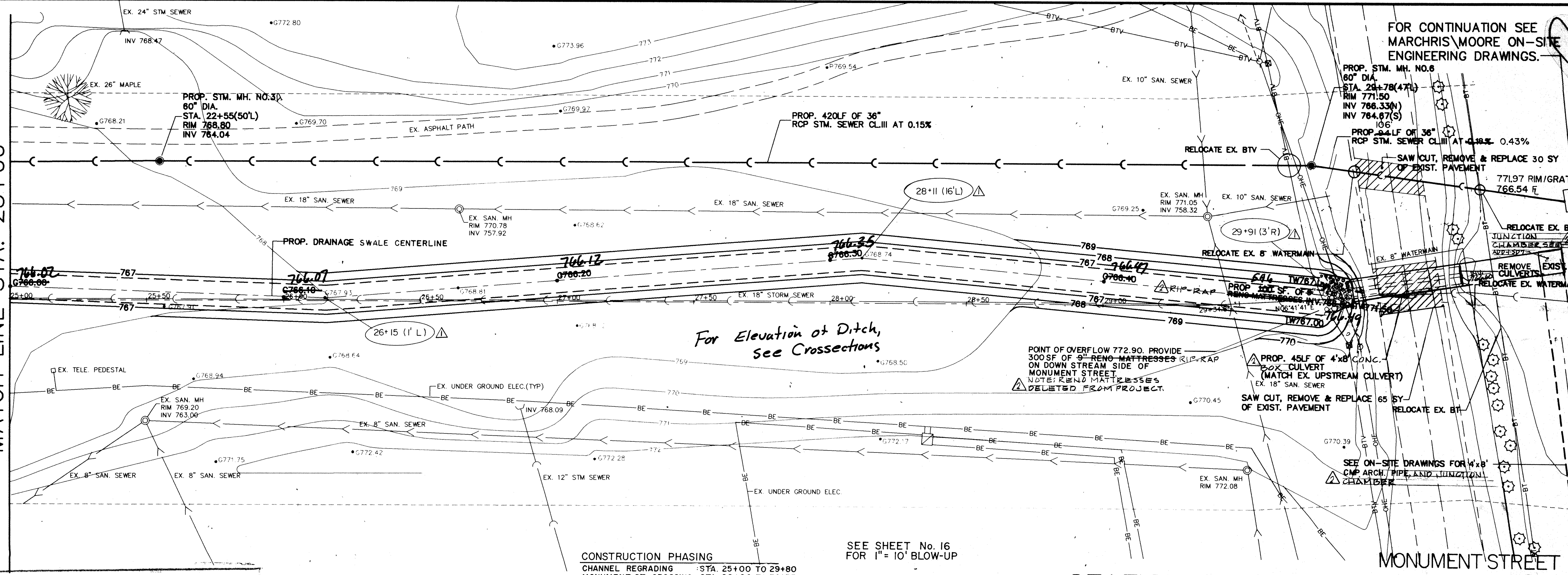
STATE OF INDIANA
 HAMILTON COUNTY SURVEYOR
 PROJECT ENGINEER
 CERTIFIED BY
 PRINCIPAL
 PROJECT ENGINEER
 CERTIFIED BY
 PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
SJW	9-1-93	OFFICE REVIEW
	11-15-93	OFFICE REVIEW
	6-2-94	REVISED FOR RECONSTRUCTION
	1-28-97	RECORDED DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
 ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
 NOBLESVILLE, INDIANA

MATCH LINE STA. 25+00

MATCH LINE STA. 25+00



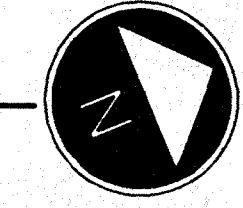
For Elevation of Ditch, see Crosssections

POINT OF OVERFLOW 772.90. PROVIDE 300 SF OF 8\"/>

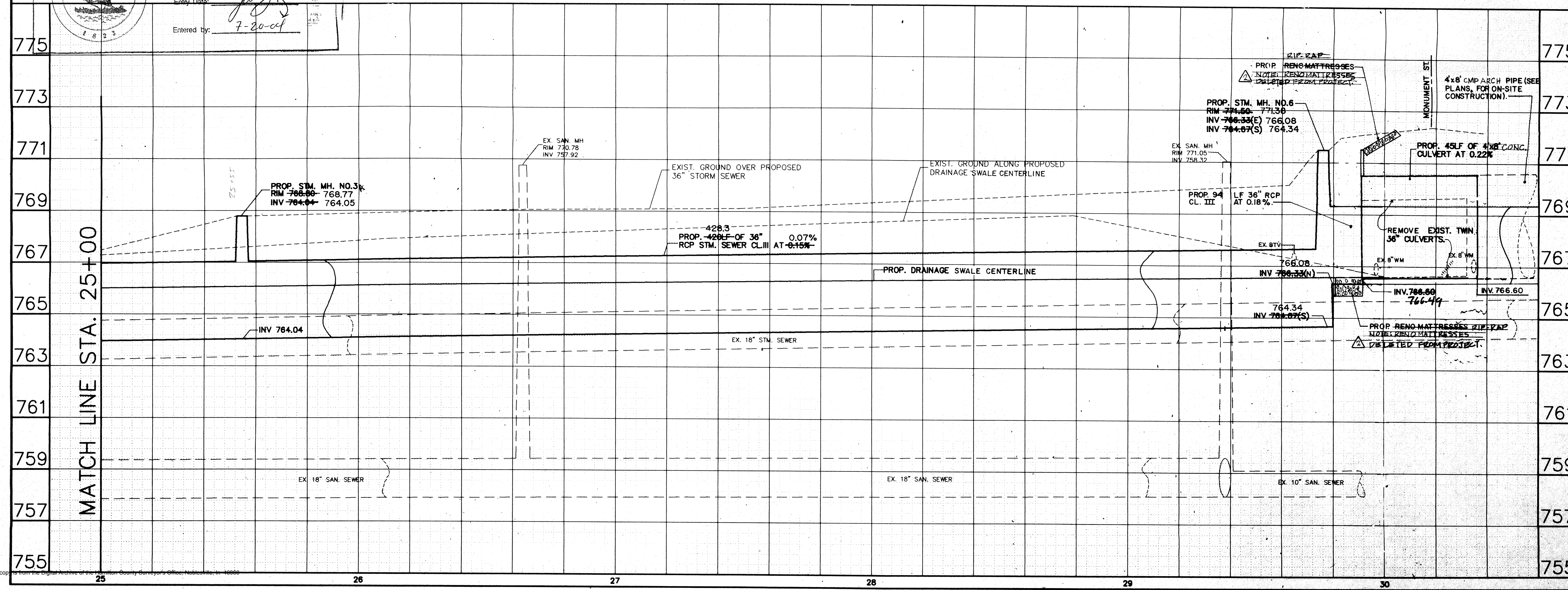
CONSTRUCTION PHASING
 CHANNEL REGRADING : STA. 25+00 TO 29+80
 MONUMENT ST. CROSSING : STA. 29+80 TO 30+35
 ON-SITE CONSTRUCTION : FROM STA. 30+35

SEE SHEET No. 16 FOR 1" = 10' BLOW-UP

STATION 25+00 TO 30+00



HAMILTON COUNTY INDIANA
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 Entry Date: 7-20-97
 Entered by: [Signature]



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POST CONSTRUCTION SURVEY

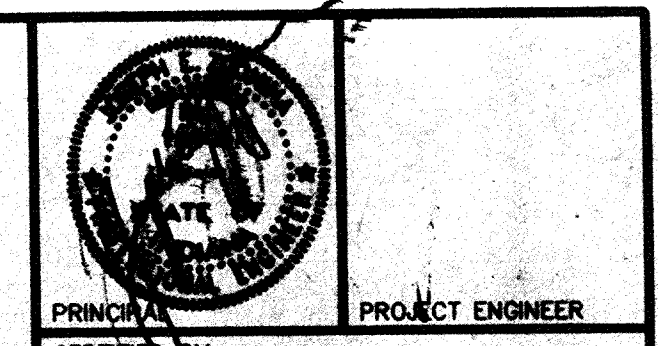
 DALE DAVIS BRANSON
 REGISTERED PROFESSIONAL LAND SURVEYOR
 LICENSE NO. 1280007
 STATE OF INDIANA

FILED
 FEB 19 1997
 OFFICE OF HAMILTON COUNTY SURVEYOR

PLAN AND PROFILE STATION 25+00 TO STATION 30+00

DATE	7-22-93	SHEET NO.	7 of 20
SCALE	1"=20'(HORIZ) 1"=2'(VERT)		
JOB NO.	93-011		
DRAWN BY	S.WEBER		

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PROJECT ENGINEER
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PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
Δ	1-28-97	RECORD DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

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OFFICE OF HAMILTON COUNTY SURVEYOR

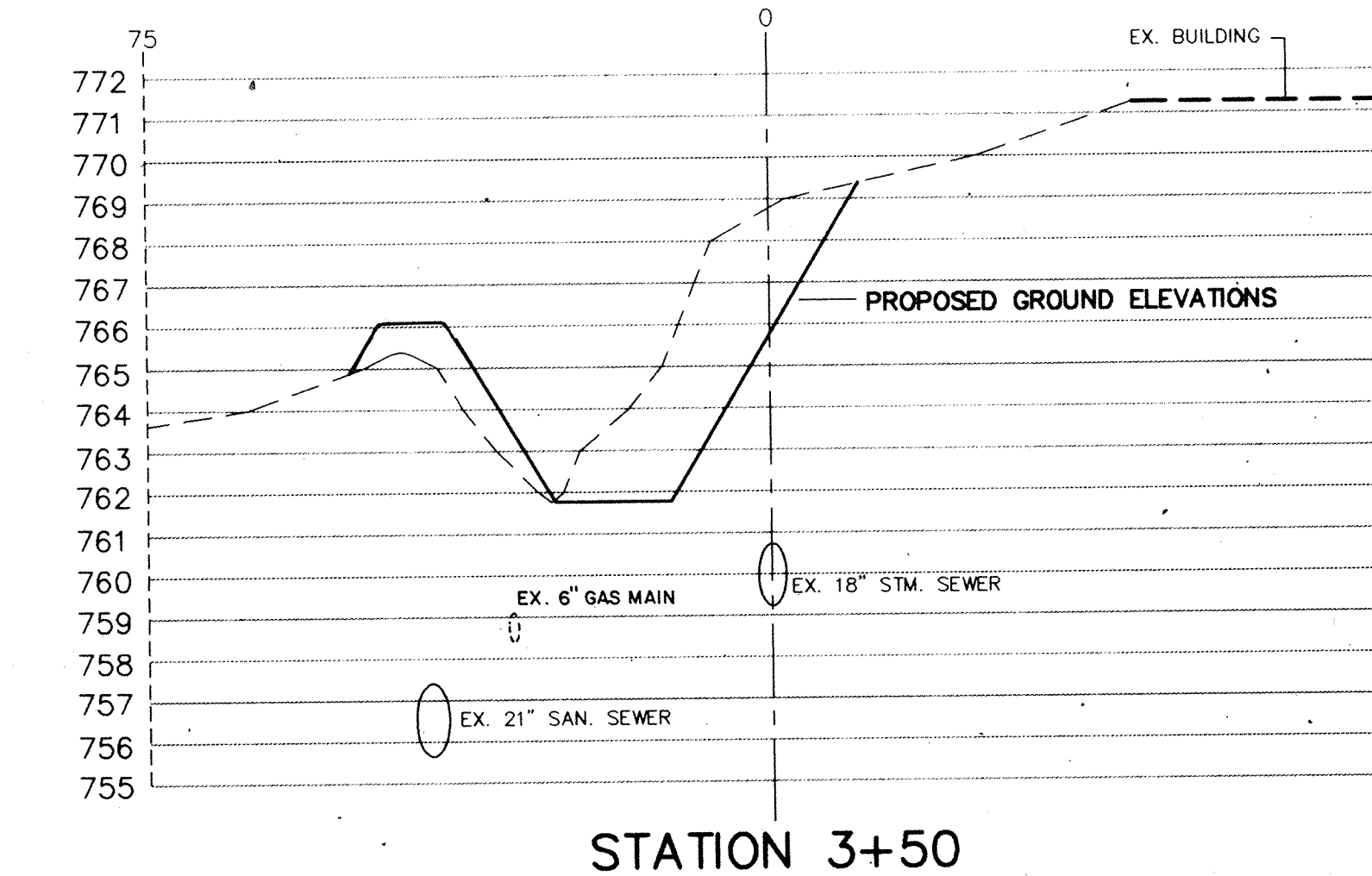
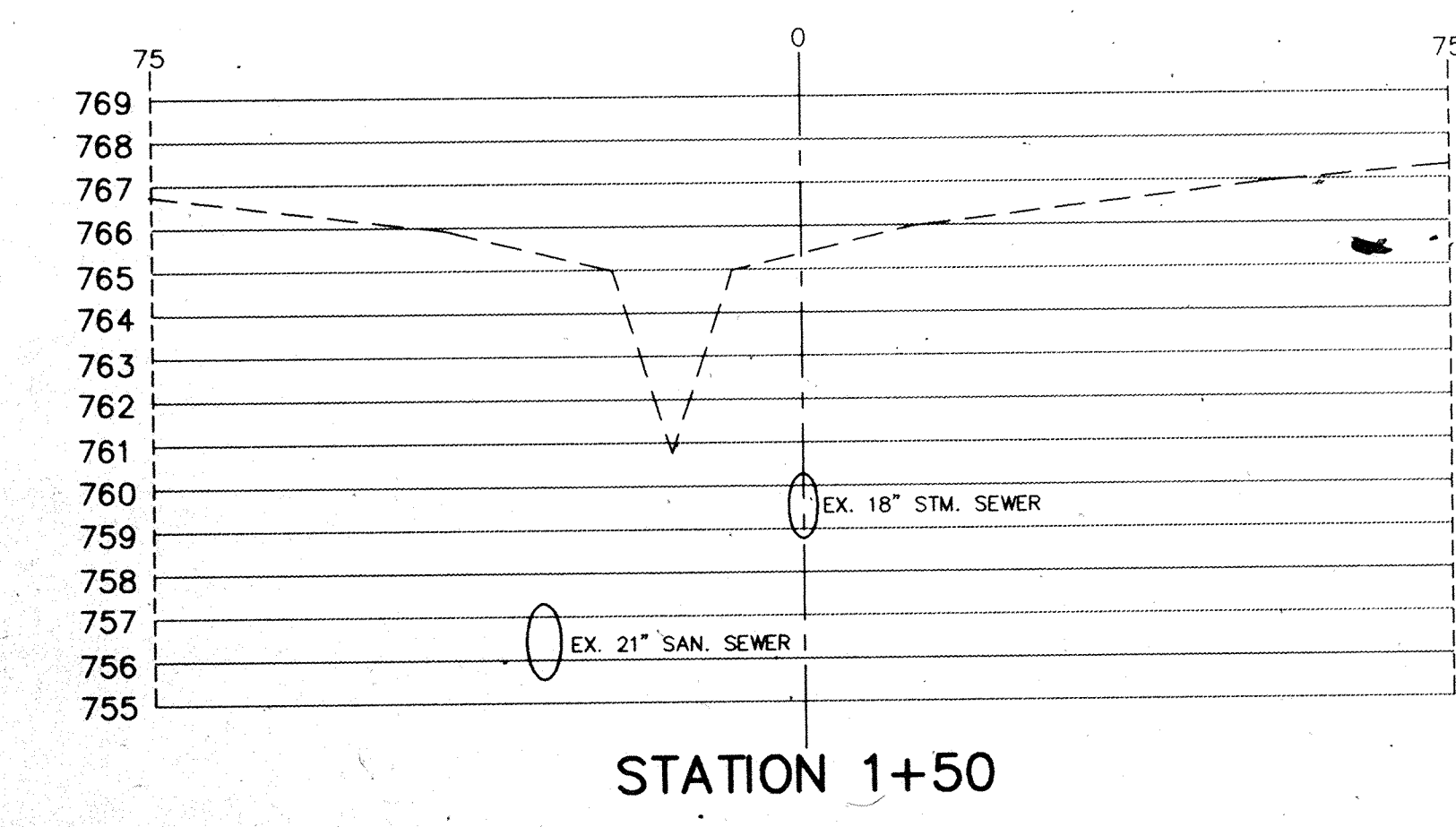
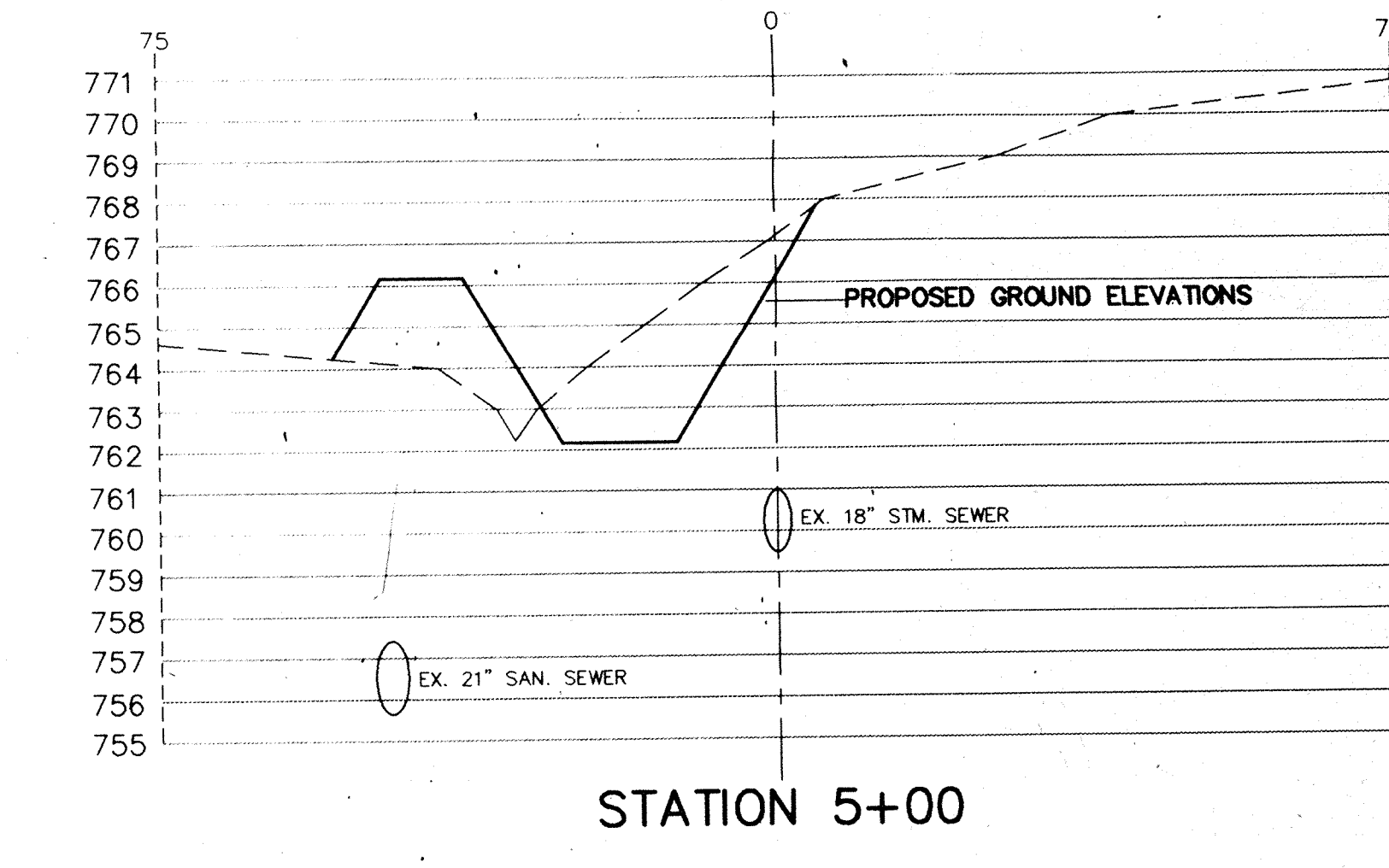
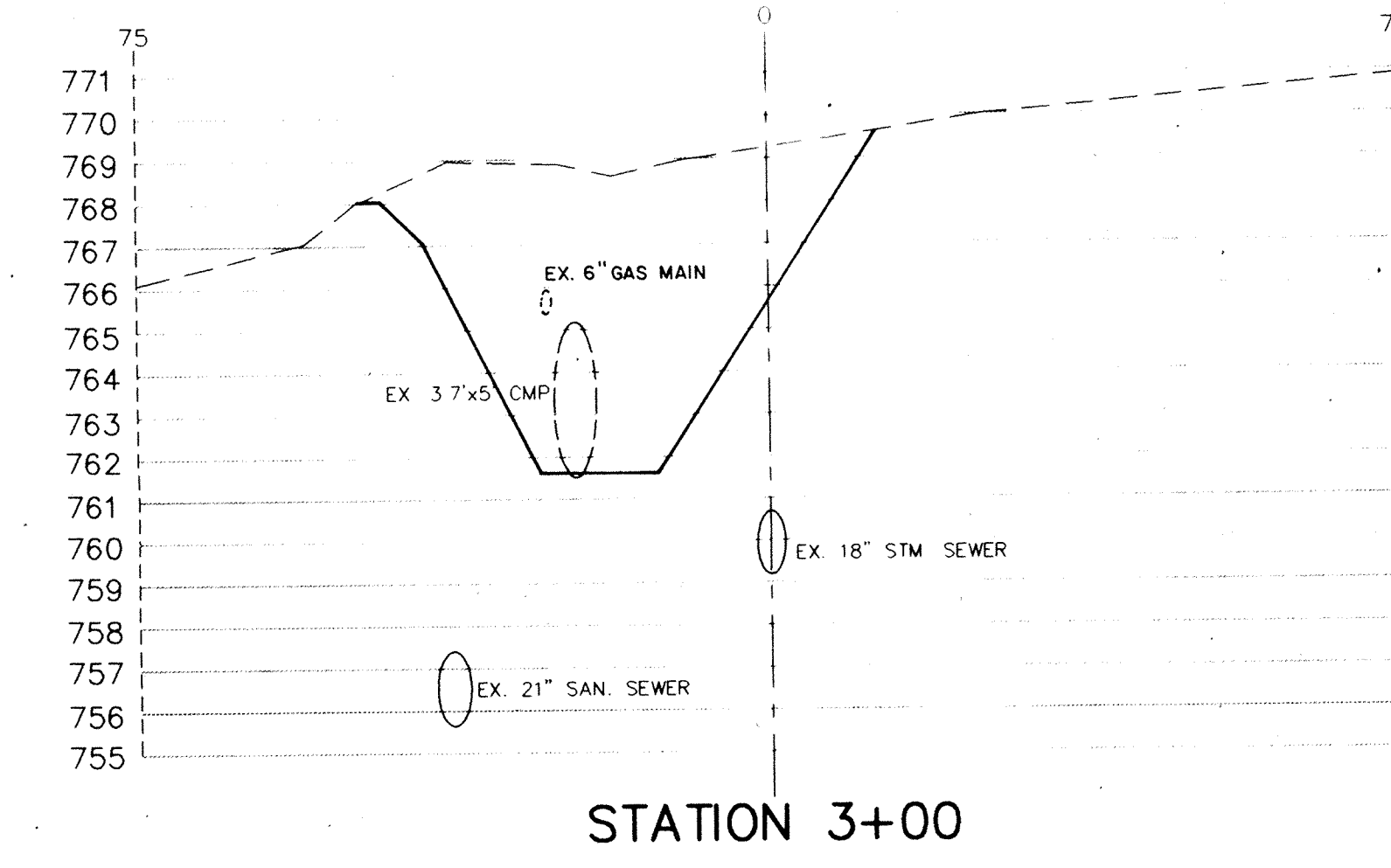
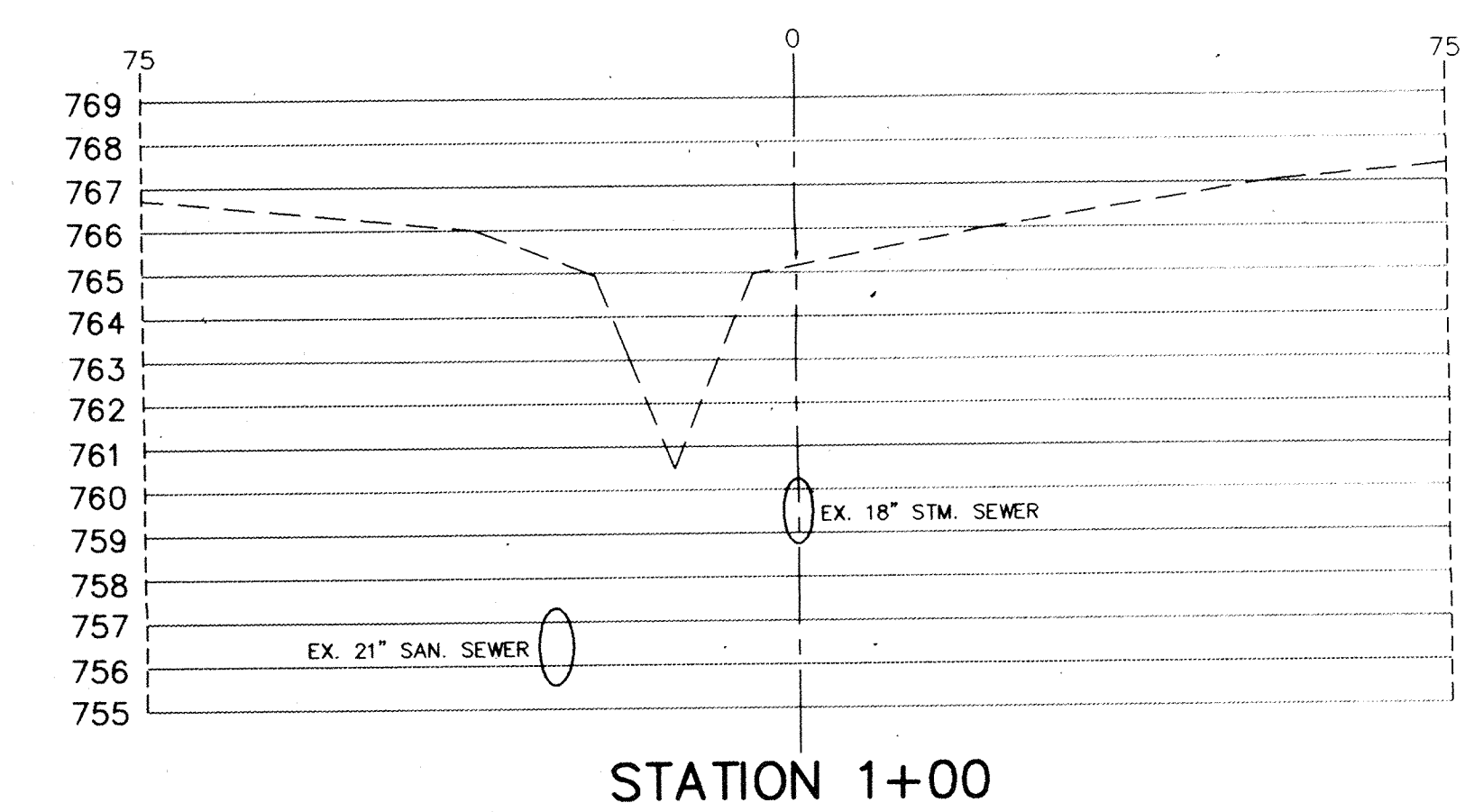
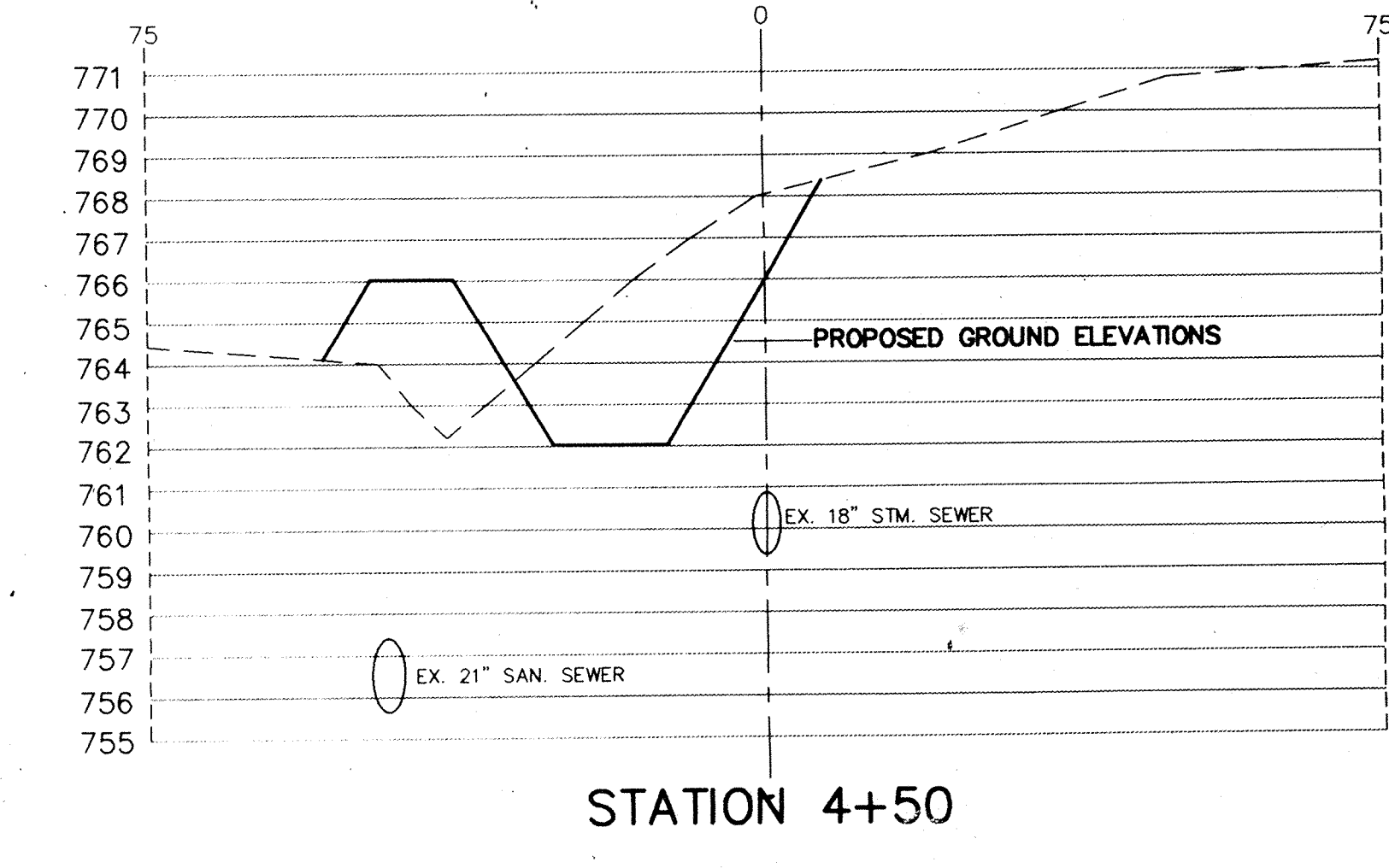
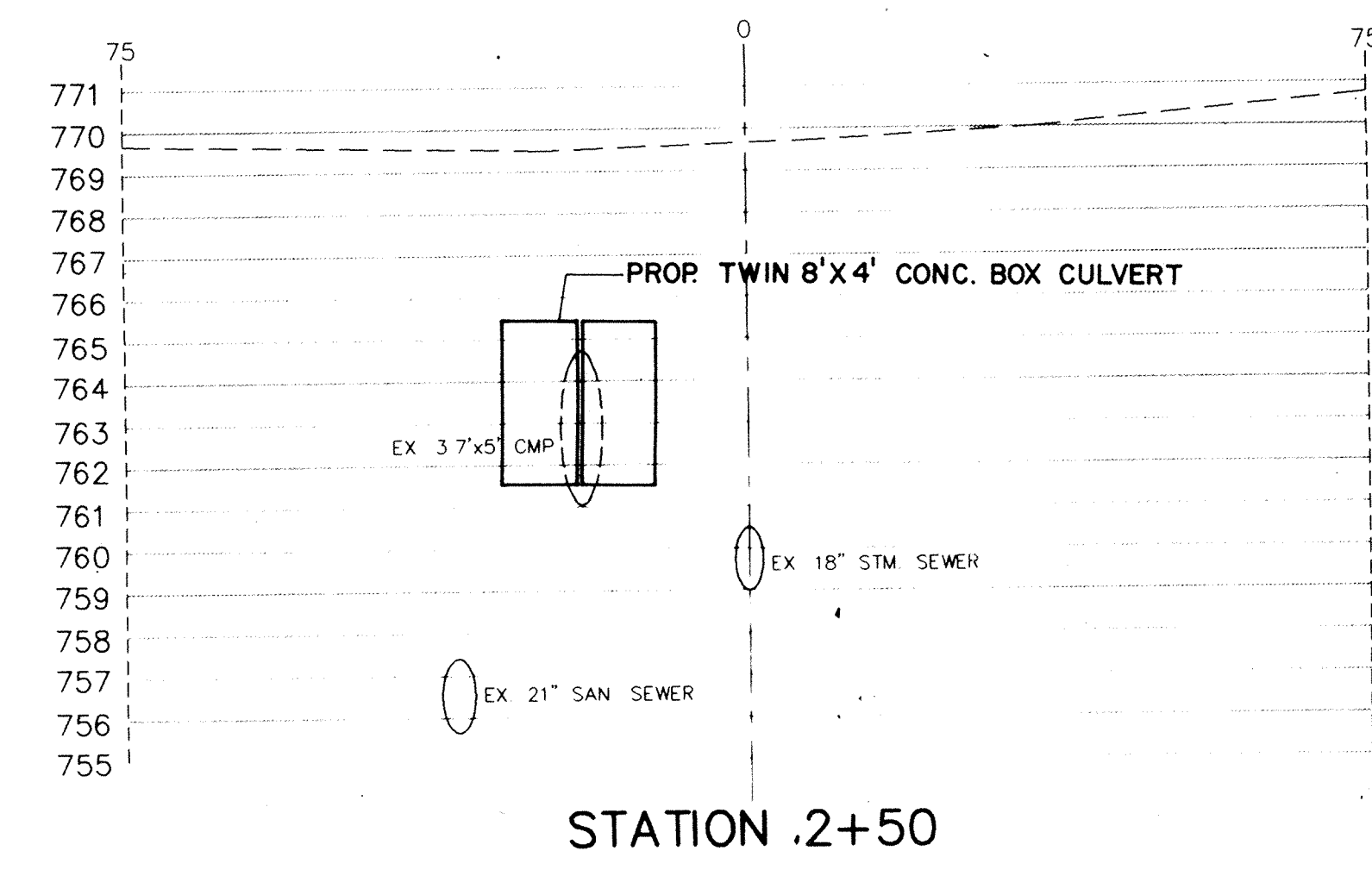
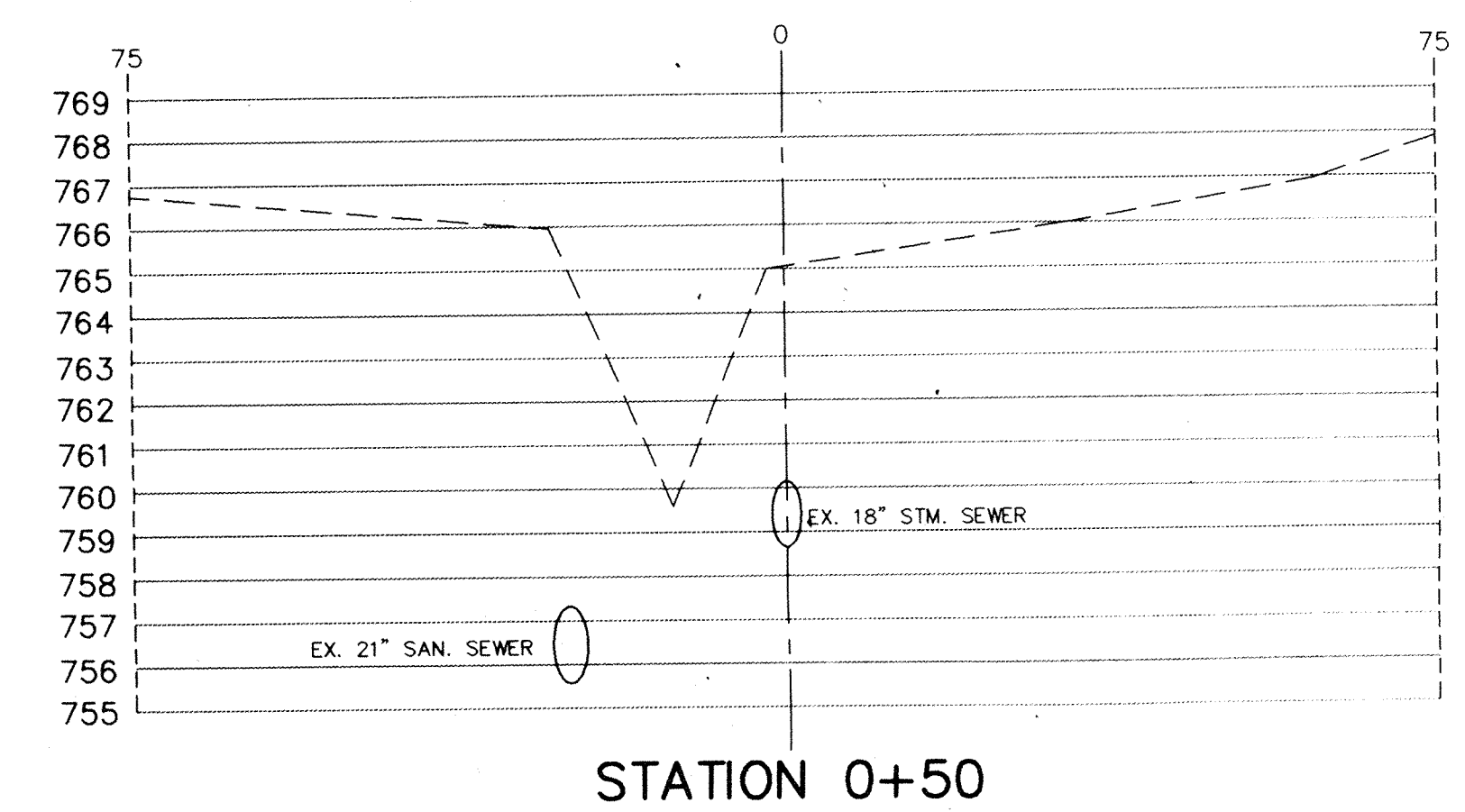
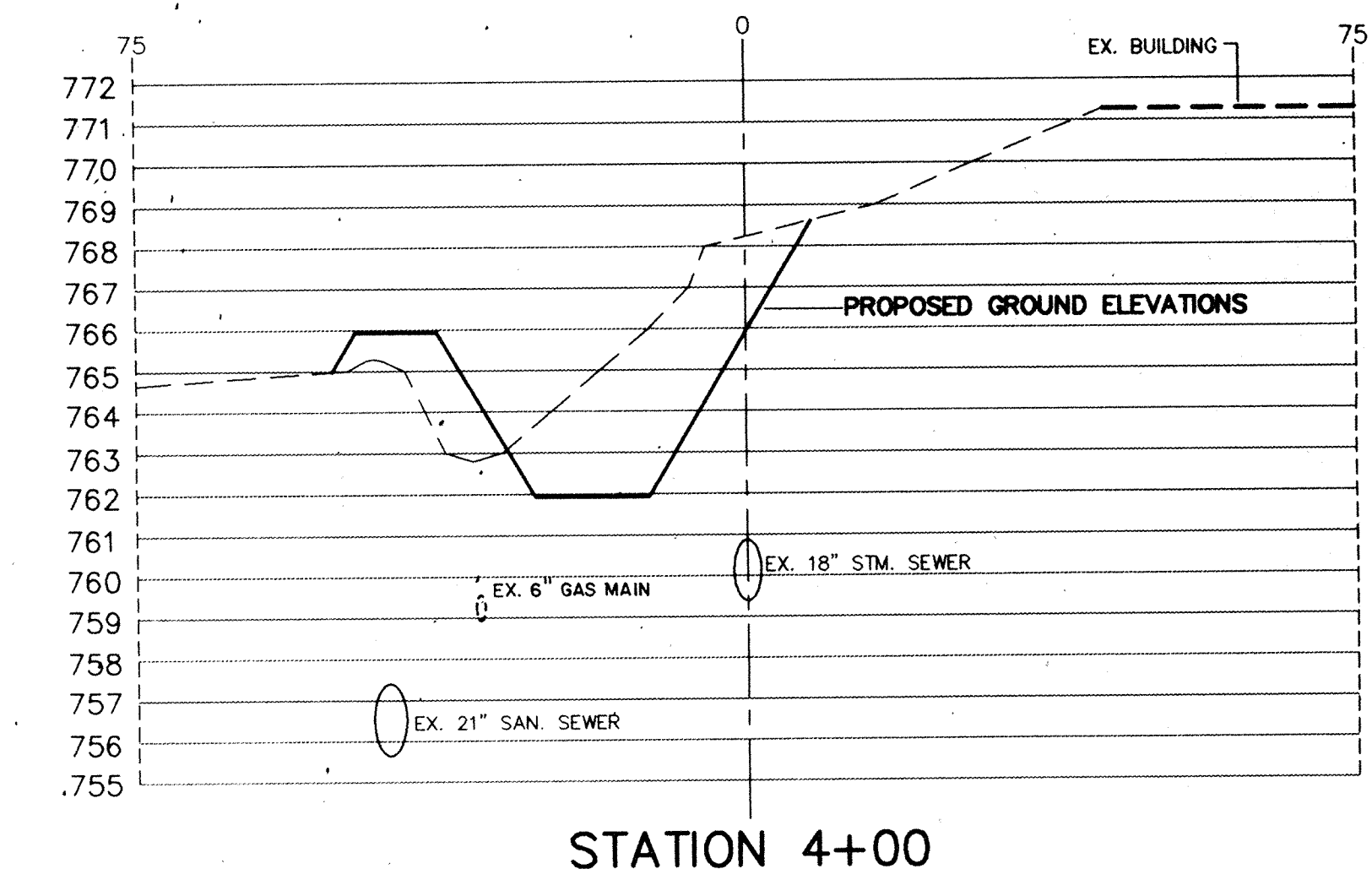
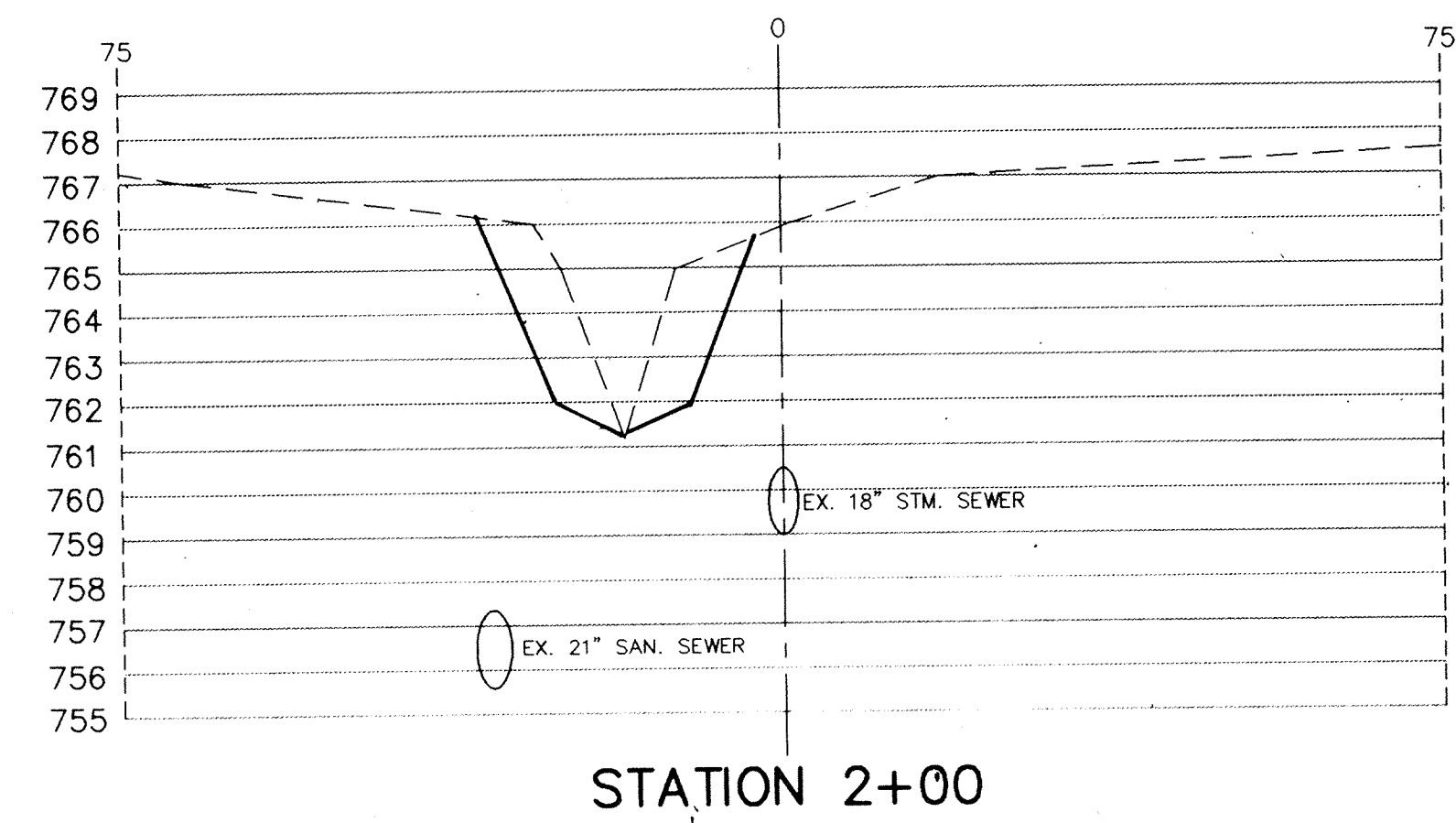
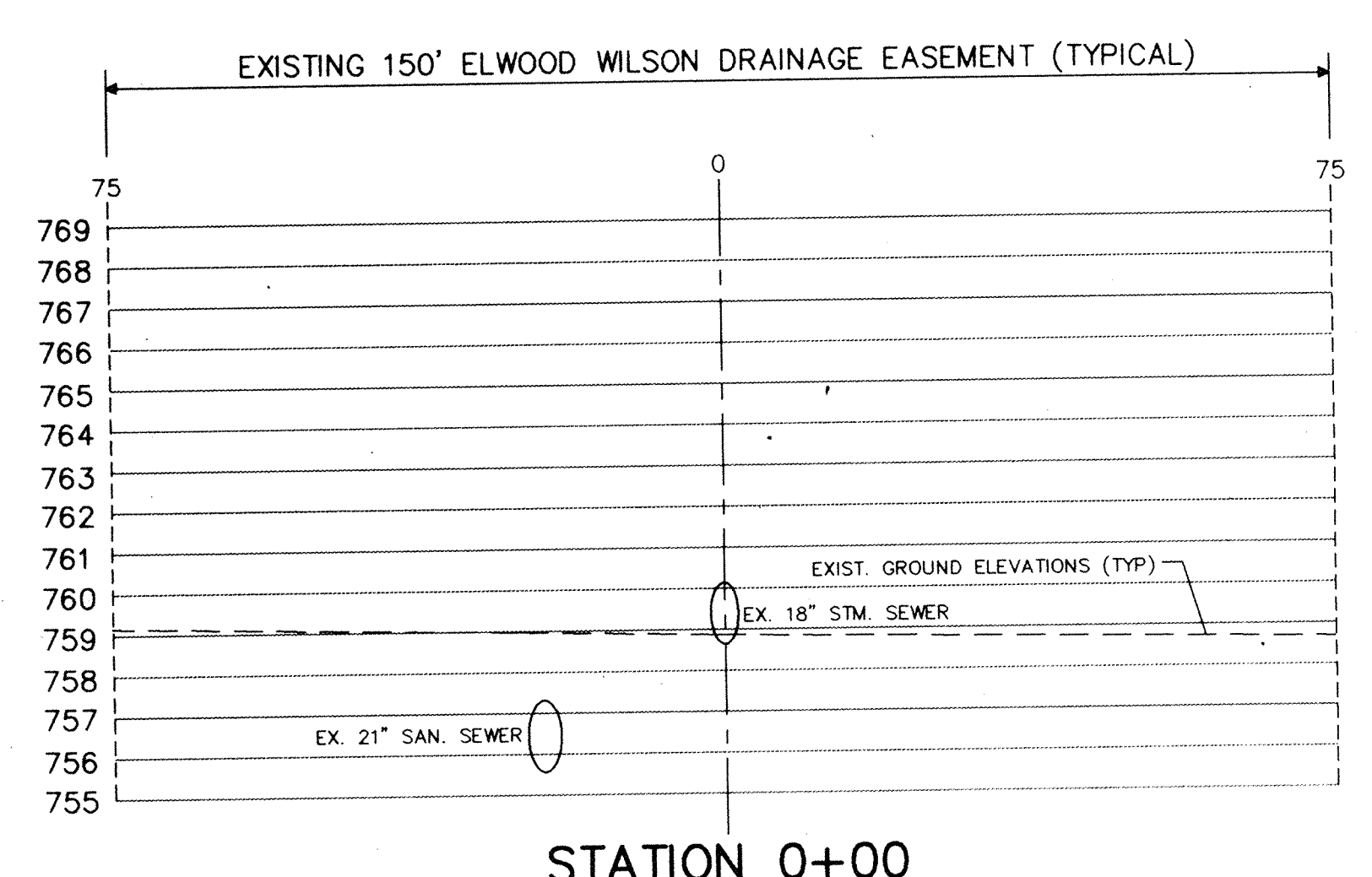
TITLE:
CROSS SECTIONS

STATION 0+00 TO STATION 5+00

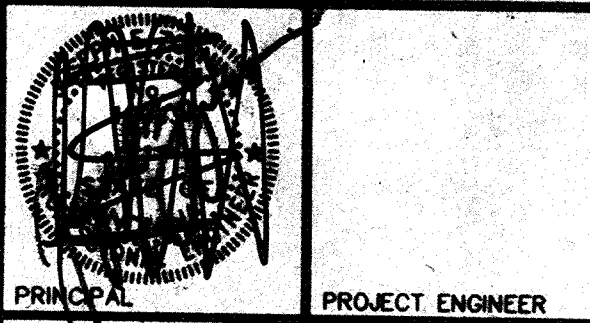
DATE **7-22-93** SHEET NO.

SCALE **1"=20'(HORIZ)**
1"=4'(VERT) **8 of 20**

JOB NO. **93-011**
DRAWN BY **S.WEBER**



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PROJECT ENGINEER
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 PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
△	12-9-97	RECORDED DRAWINGS

**NOBLESVILLE
 HIGH SCHOOL
 OFF-SITE**
 ELWOOD WILSON DRAINAGE EASEMENT
 IMPROVEMENTS - CHERRY STREET TO
 MONUMENT STREET
 NOBLESVILLE, INDIANA

**marchris/moore associates
 of indiana**
 consulting engineers
 9245 North Meridian Street
 Suite 105
 Indianapolis, In 46260-1812
 (317) 843-2520 FAX 848-2765

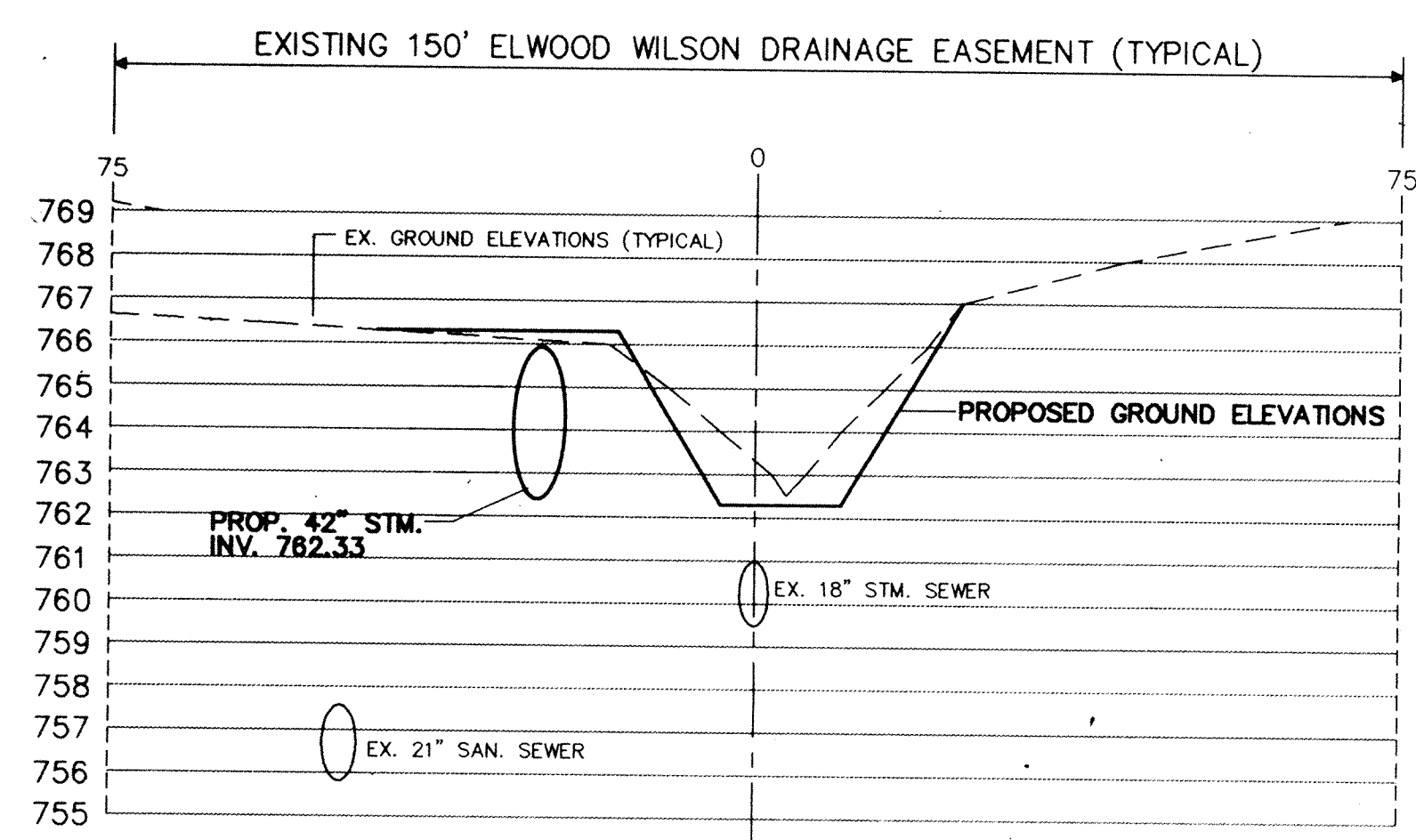
*Post Construction
 Survey*



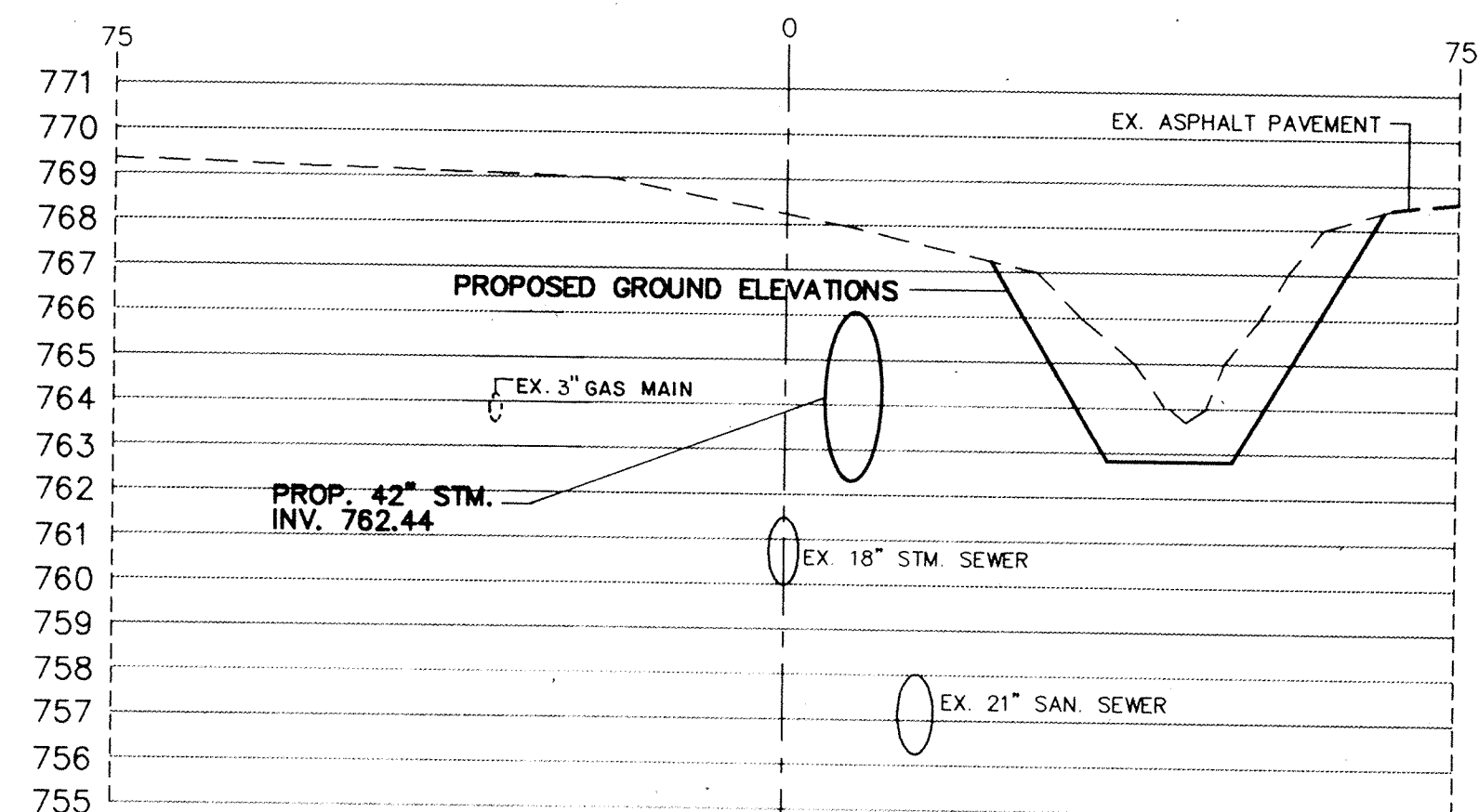
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 OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
 CROSS SECTIONS
 STATION 5+50 TO
 STATION 10+00

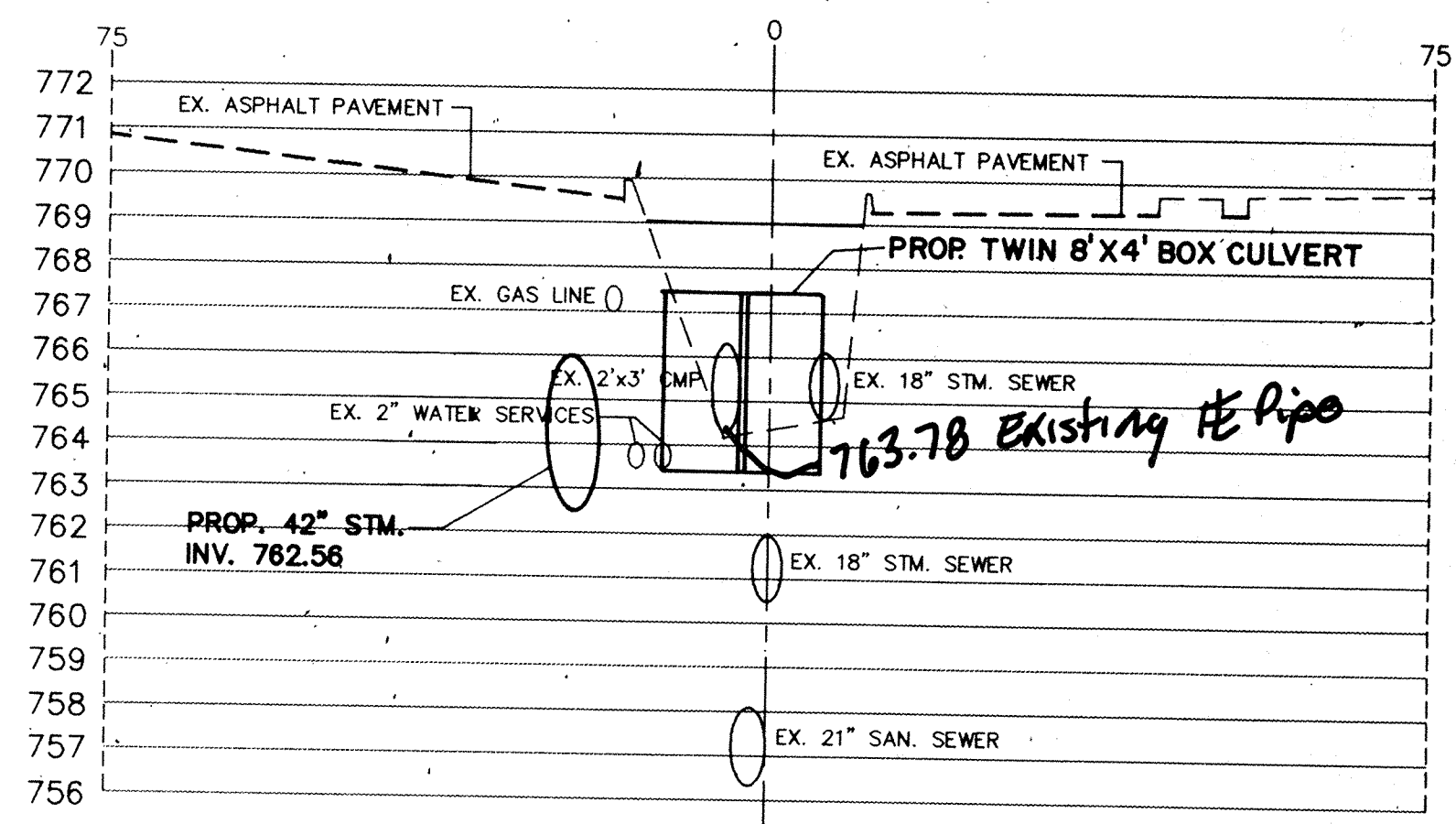
DATE 7-22-93 SHEET NO.
 SCALE 1"=20'(HORIZ)
 1"=4'(VERT) 9 of 20
 JOB NO. 93-011
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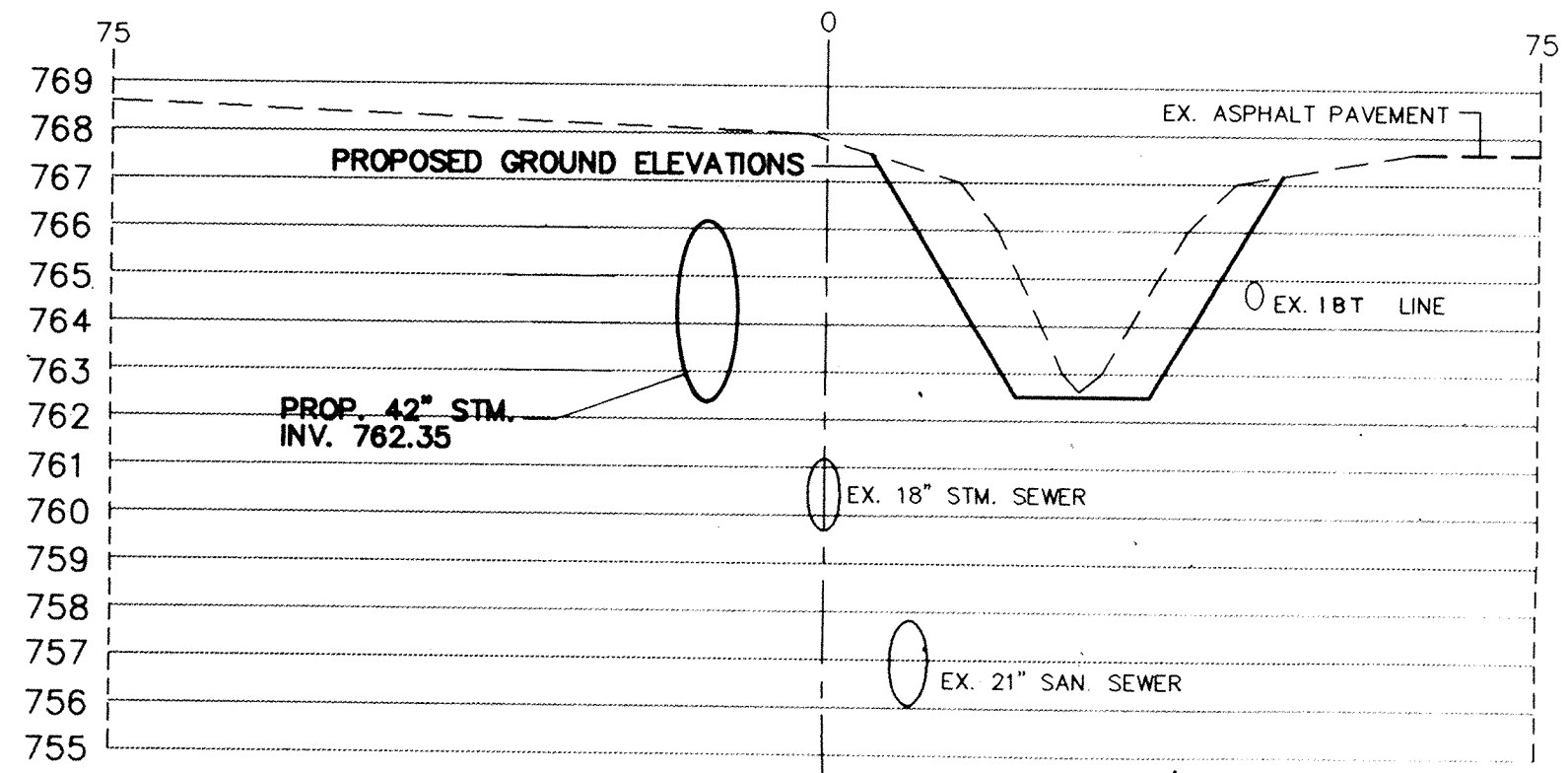
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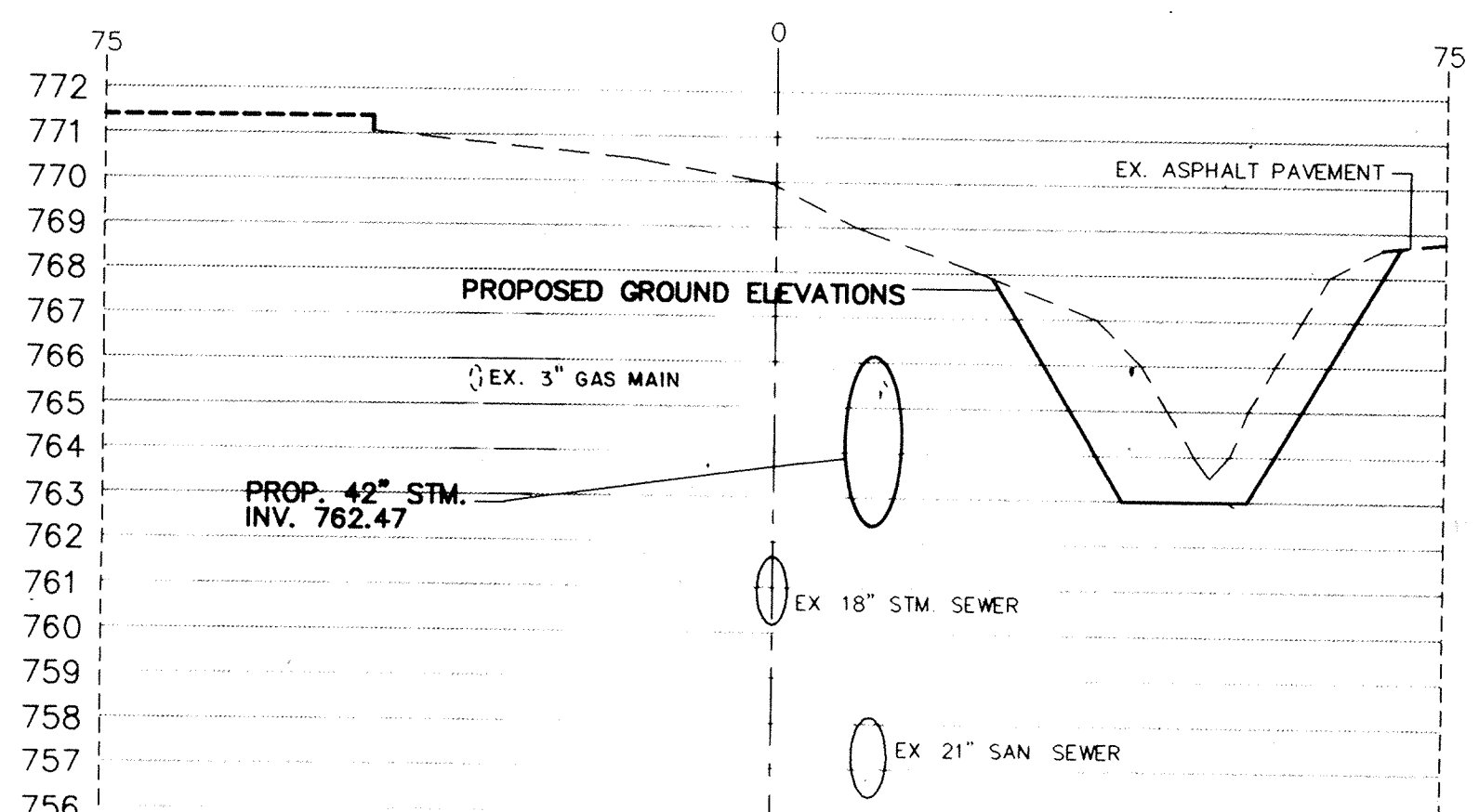
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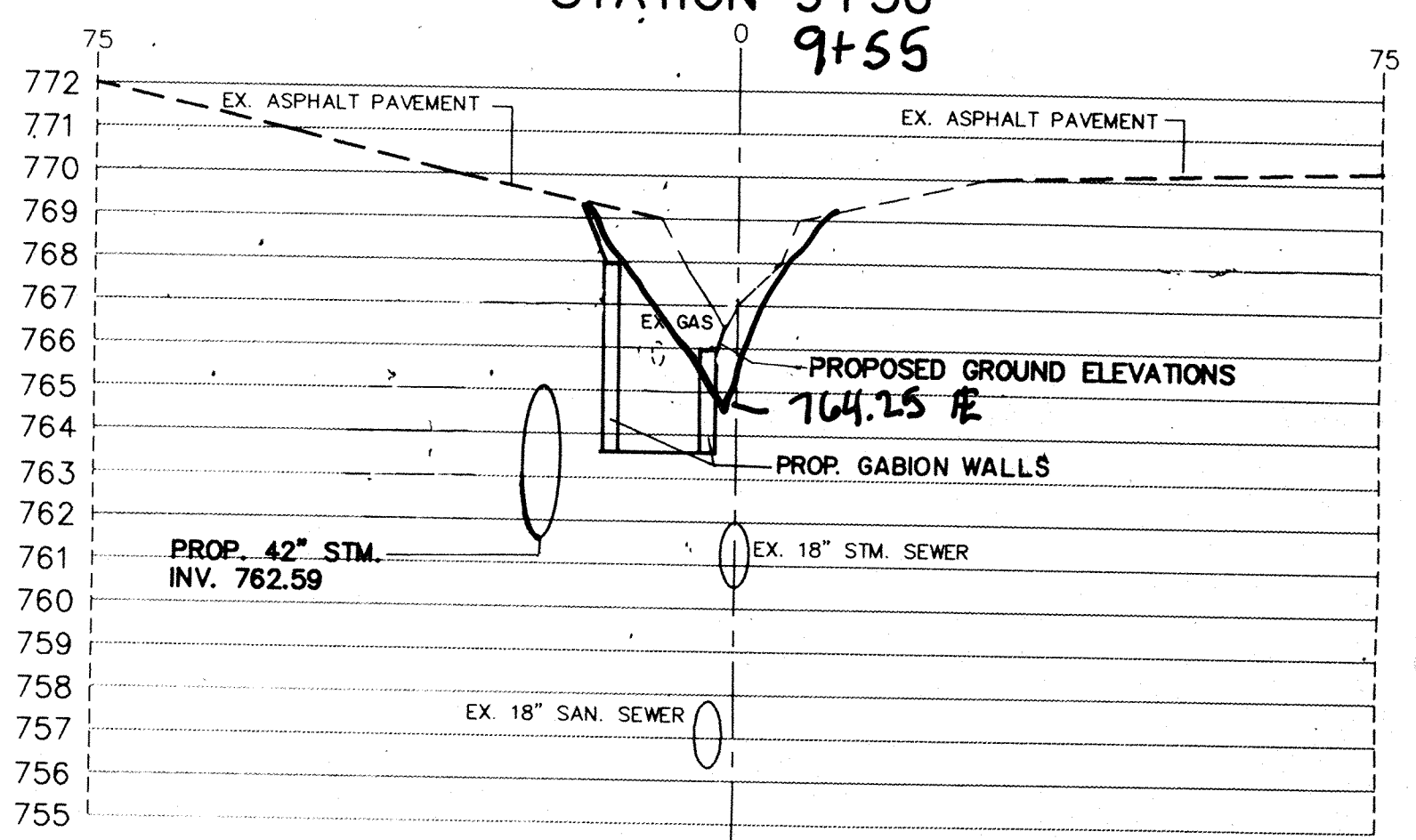
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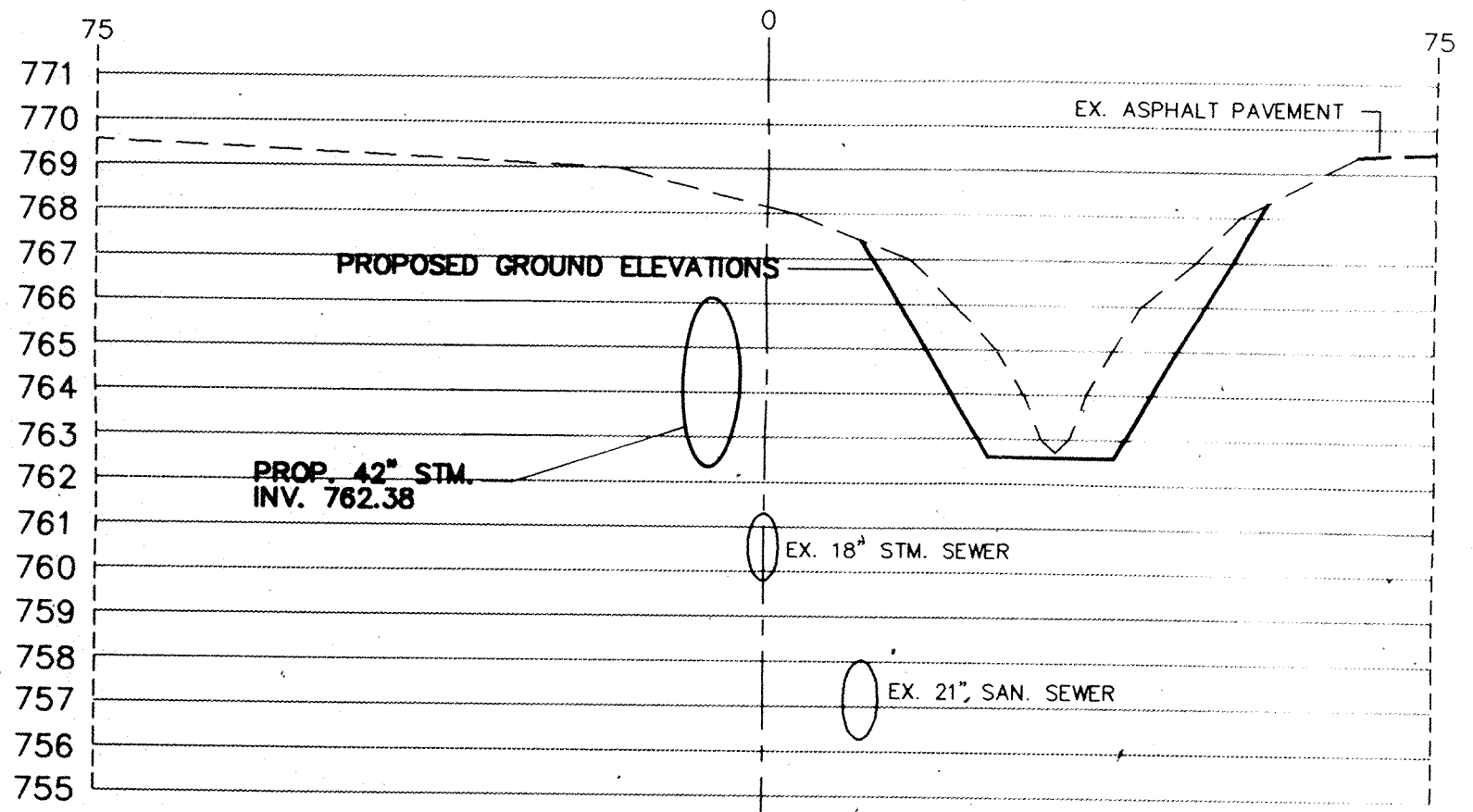
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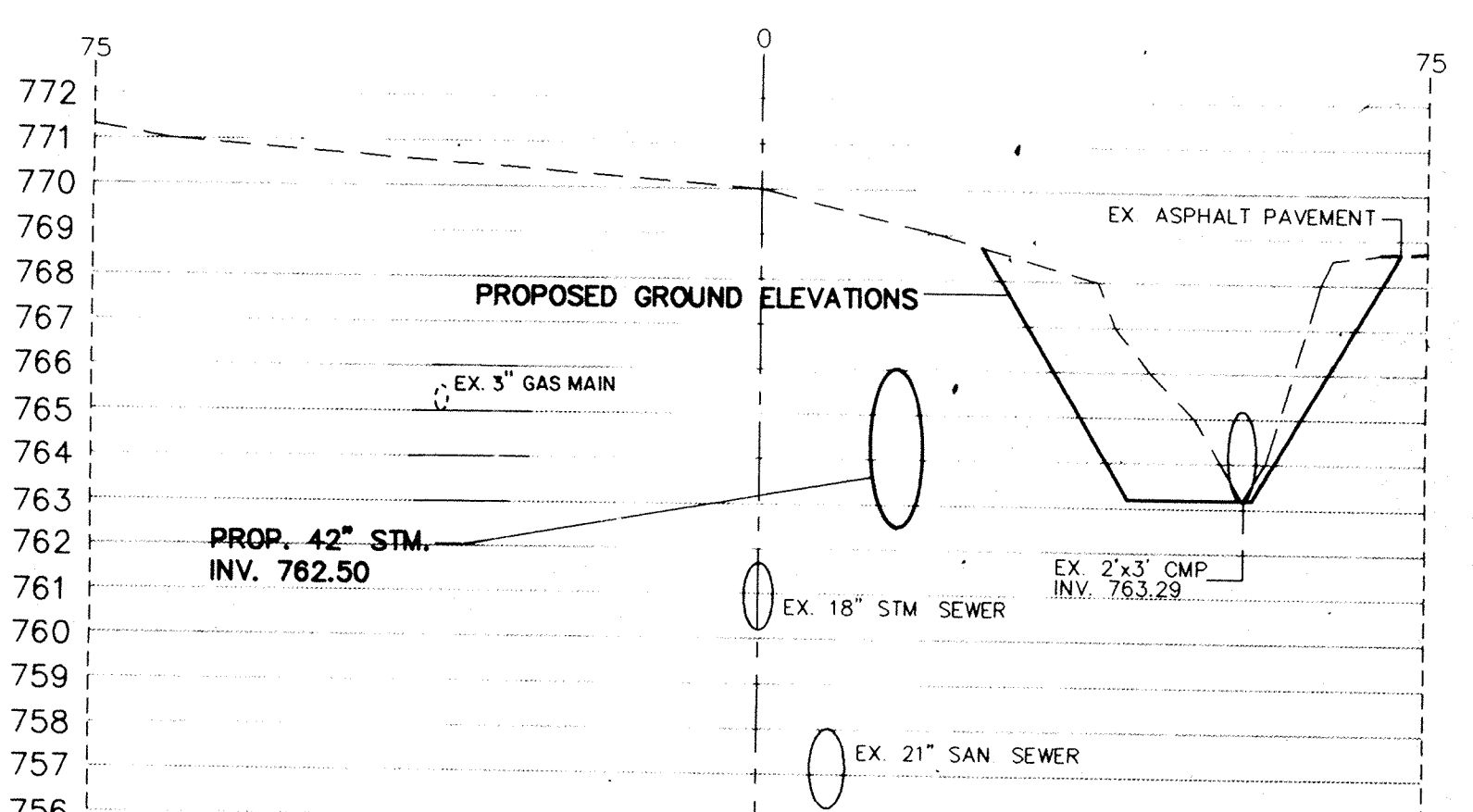
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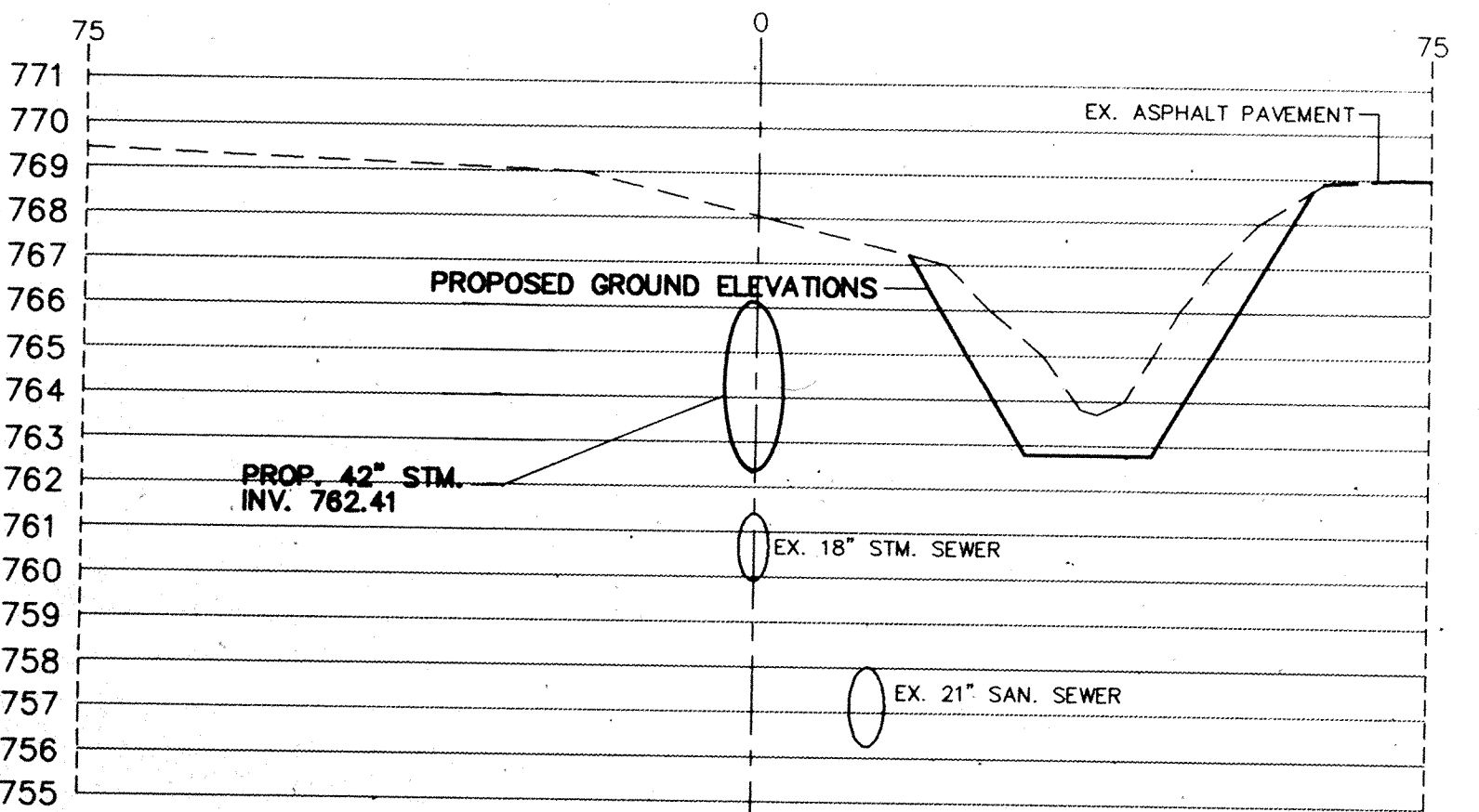
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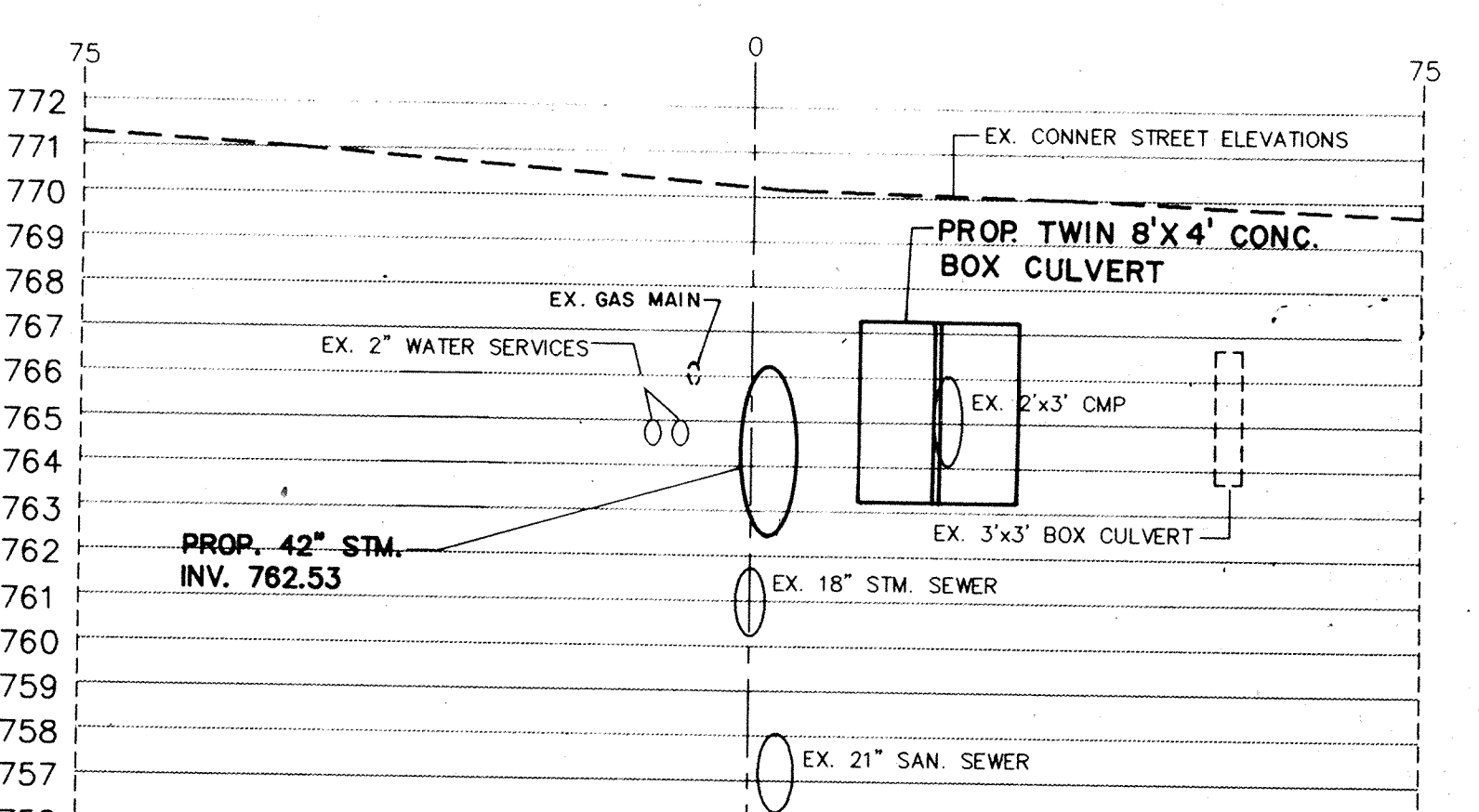
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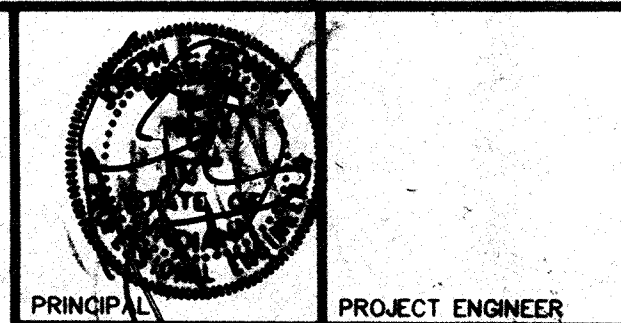
STATION 8+50



STATION 7+00



STATION 9+00



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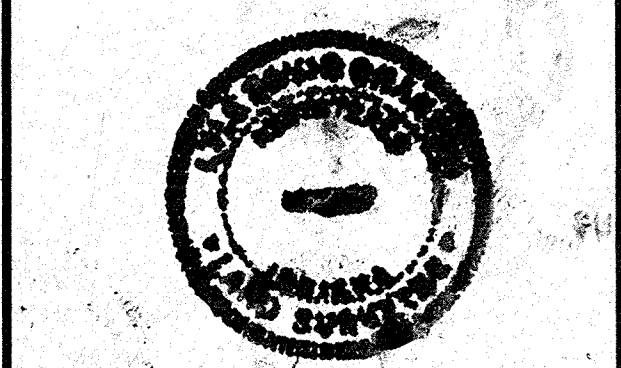
REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
△	1-28-97	RECORD DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
 ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
 NOBLESVILLE, INDIANA

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 9245 North Meridian Street Suite 105
 Indianapolis, In 46260-1812
 (317) 843-2520 FAX 848-2765

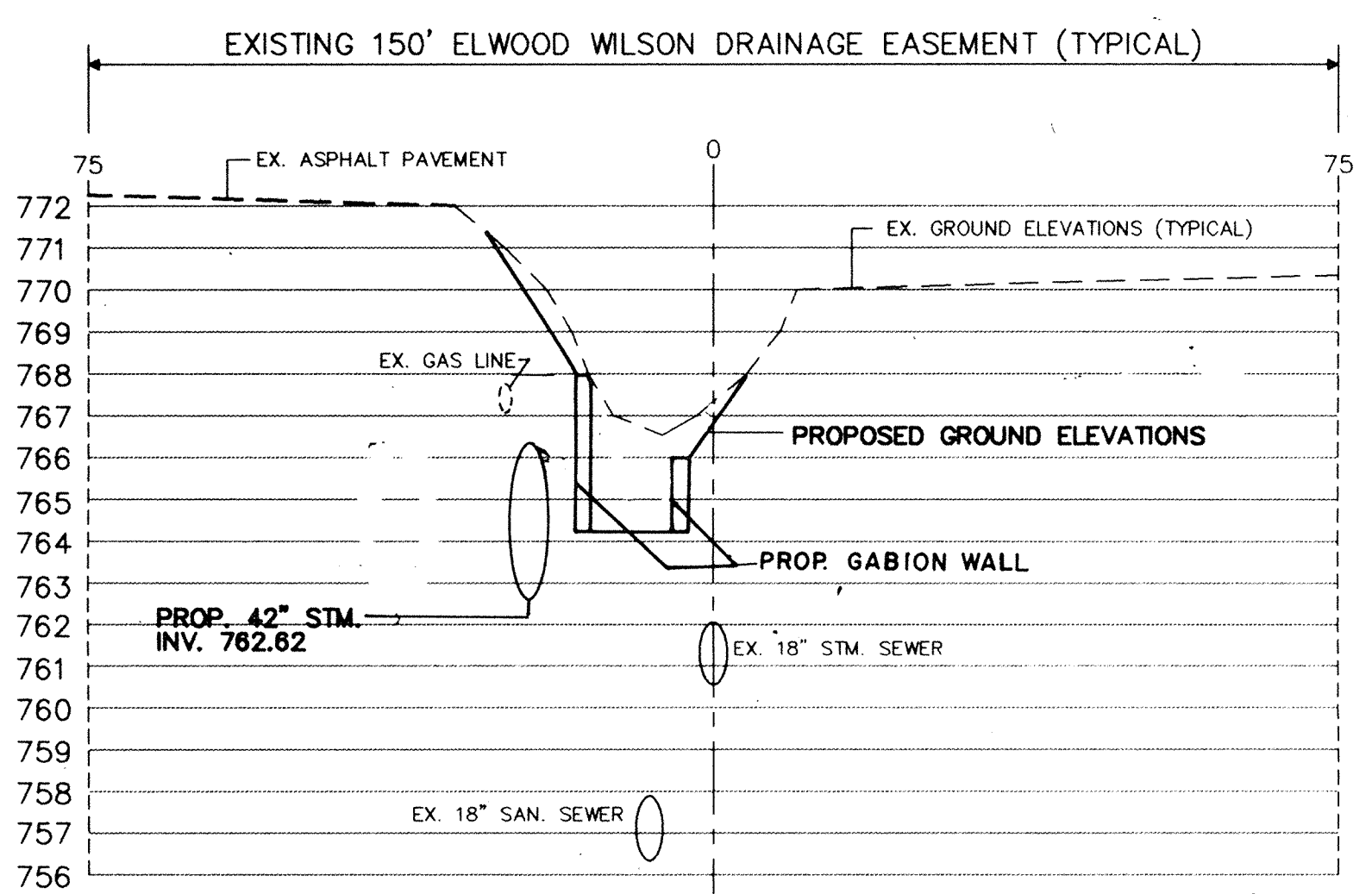
Post Construction Survey



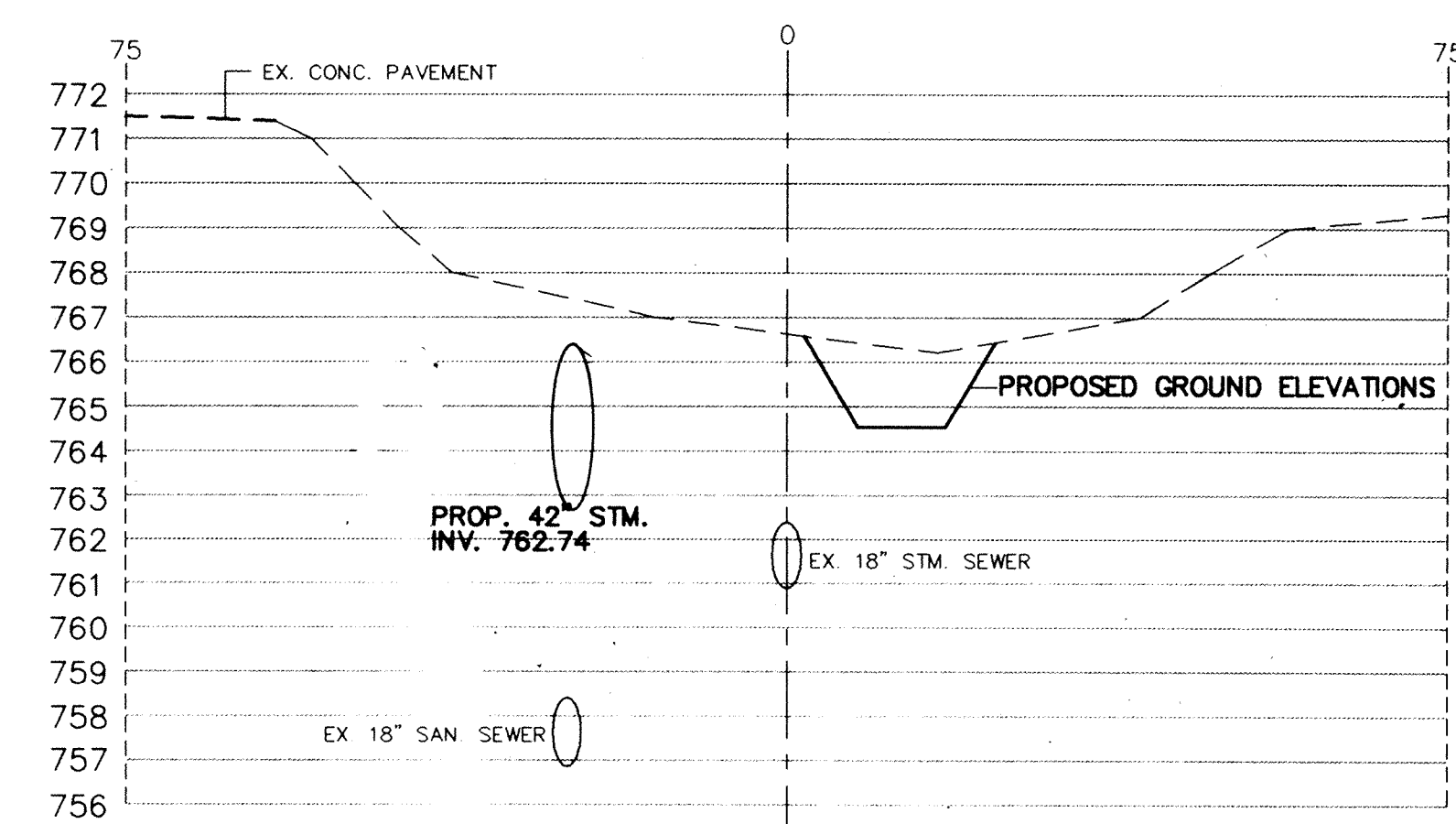
FILED
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 OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
**CROSS SECTIONS
 STATION 10+50 TO
 STATION 15+00**

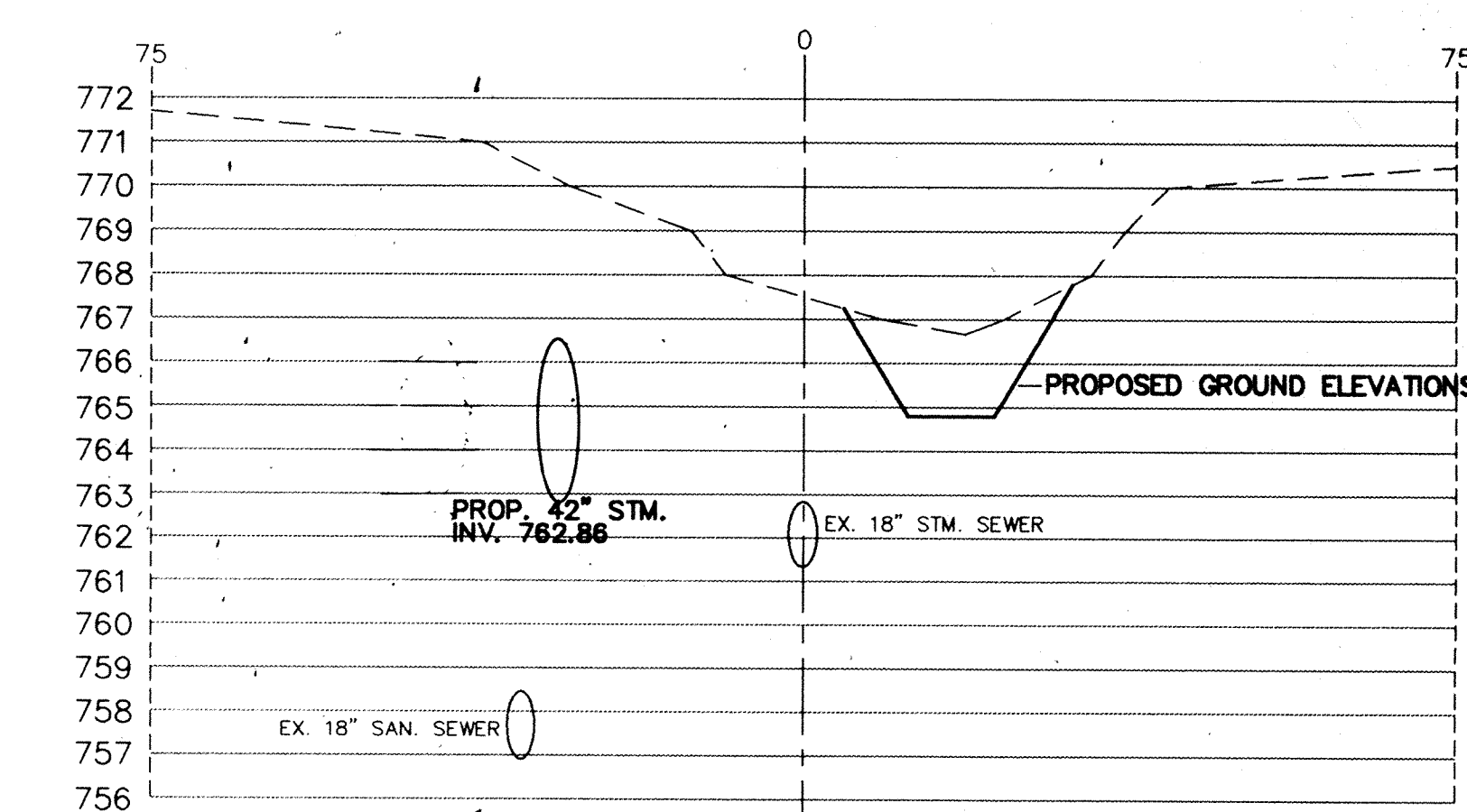
DATE **7-22-93** SHEET NO.
 SCALE **1"=20'(HORIZ)
 1"=4'(VERT)**
 JOB NO. **93-011** 10 of 20
 DRAWN BY **S.WEBER**



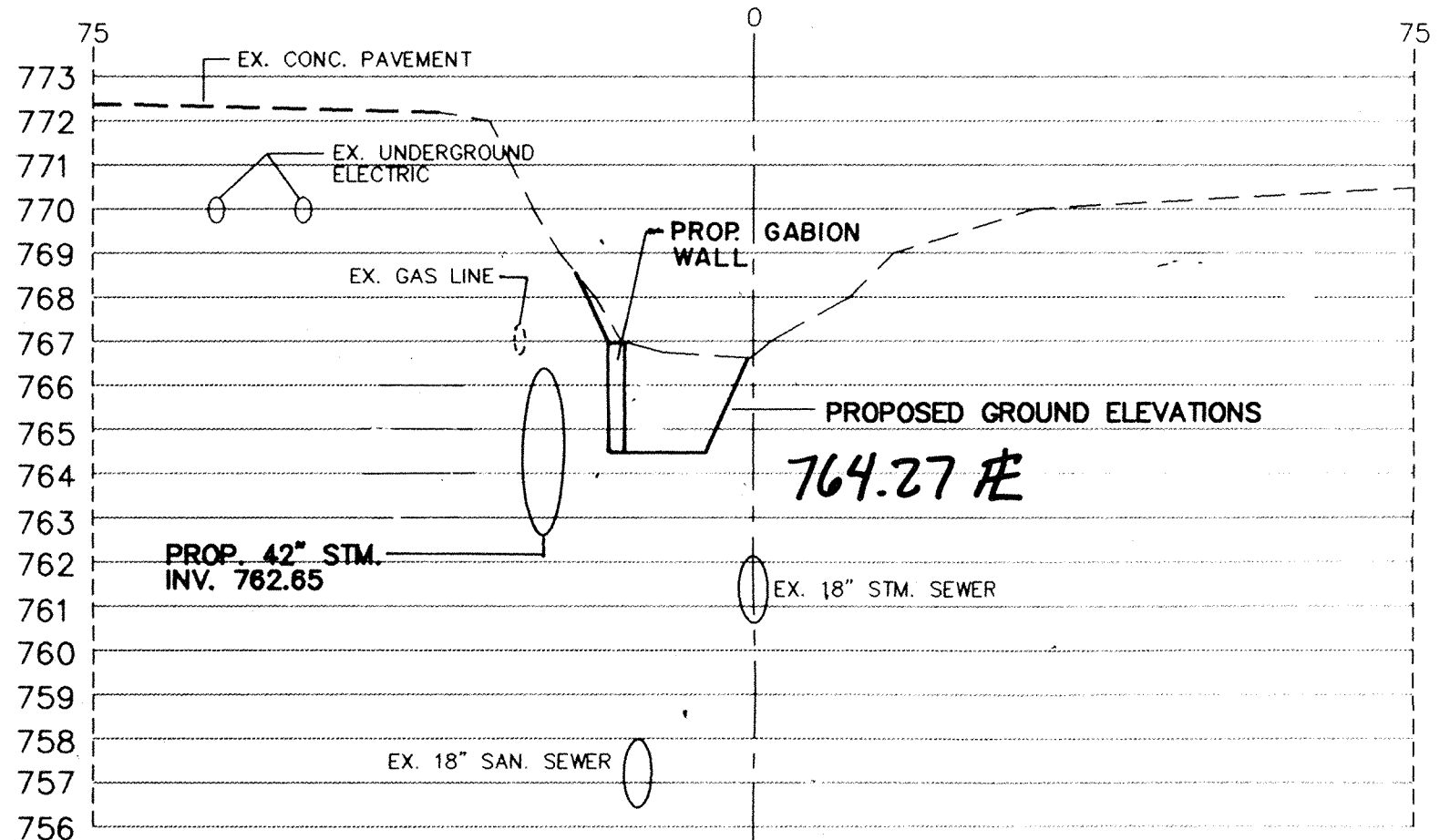
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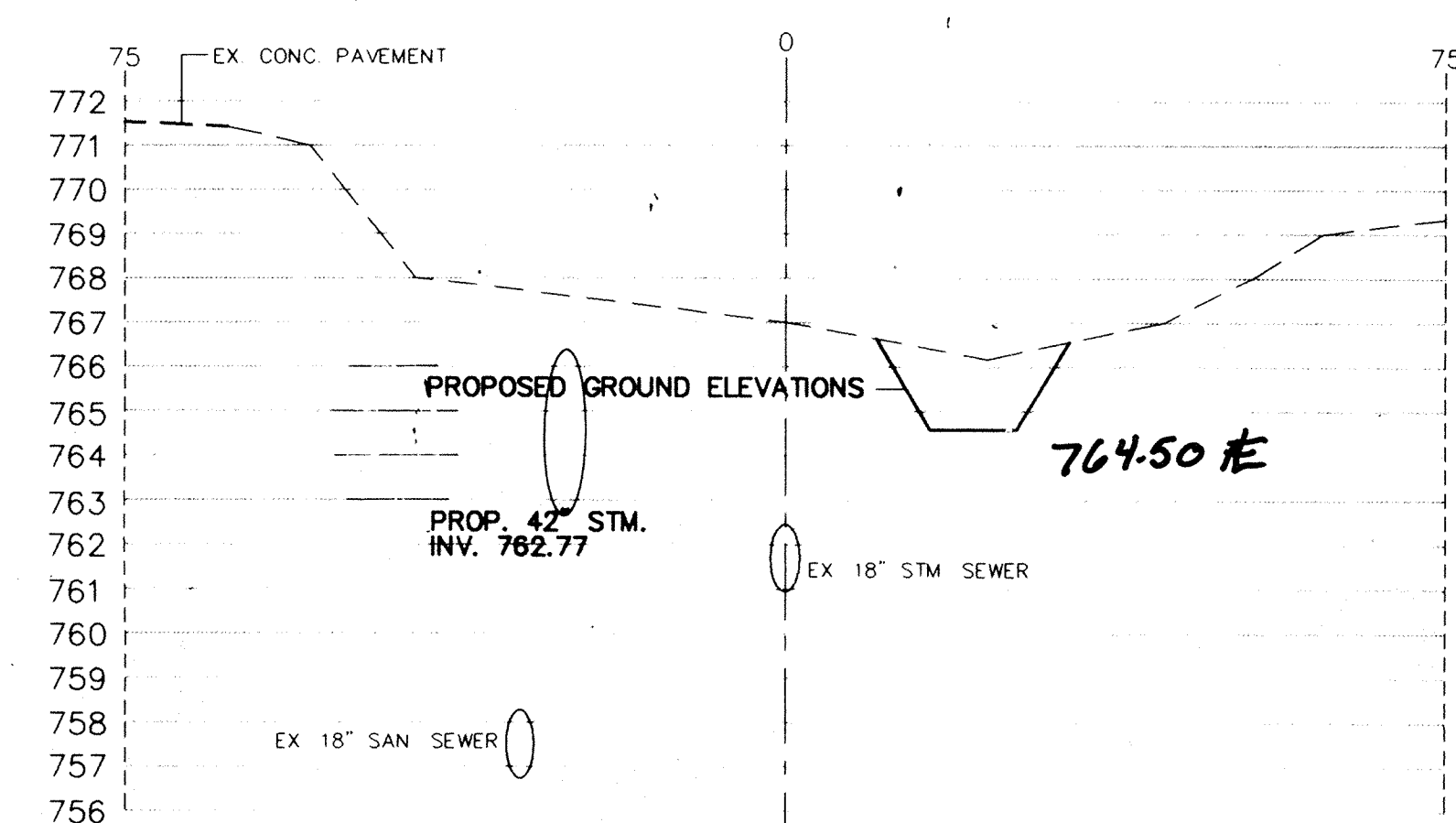
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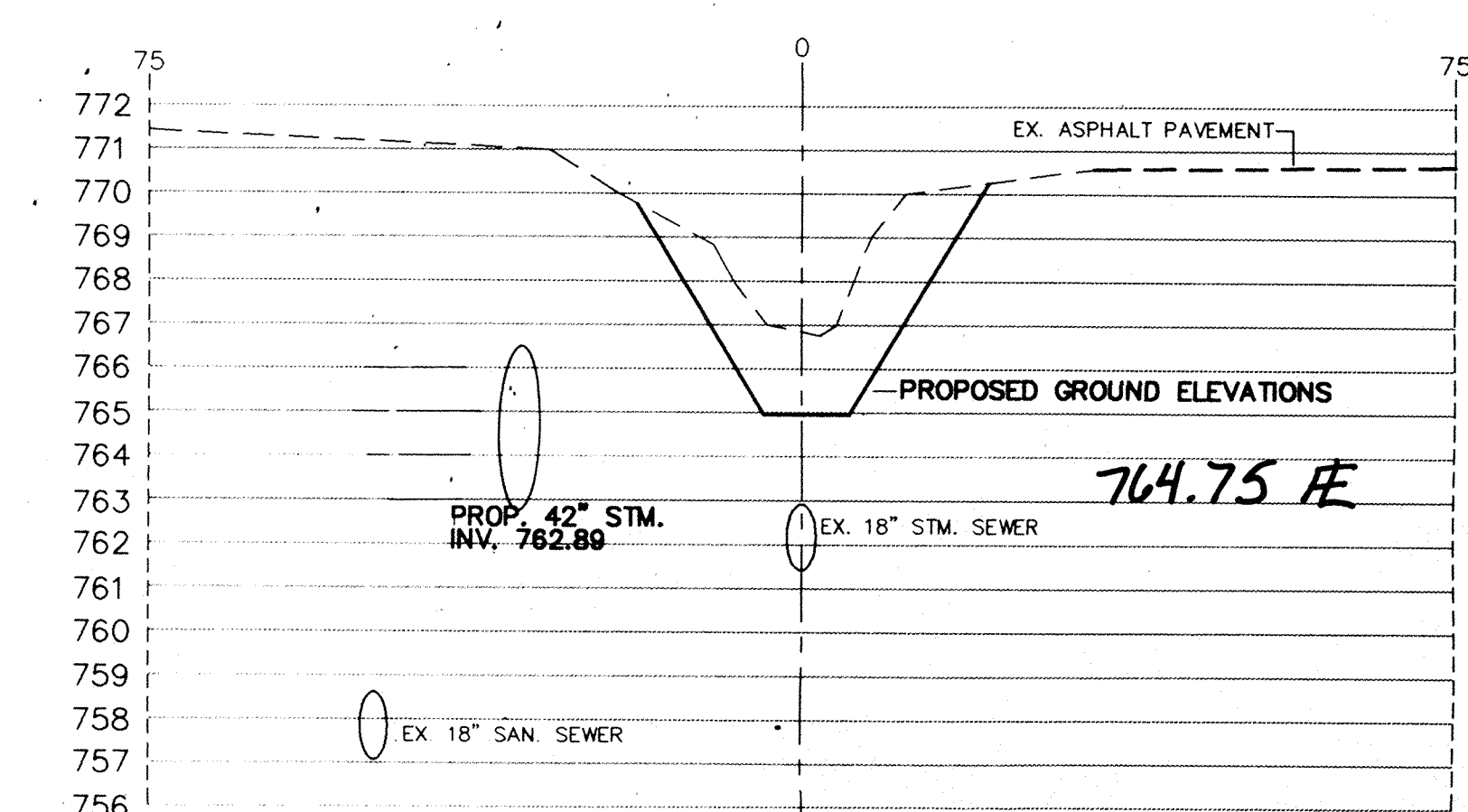
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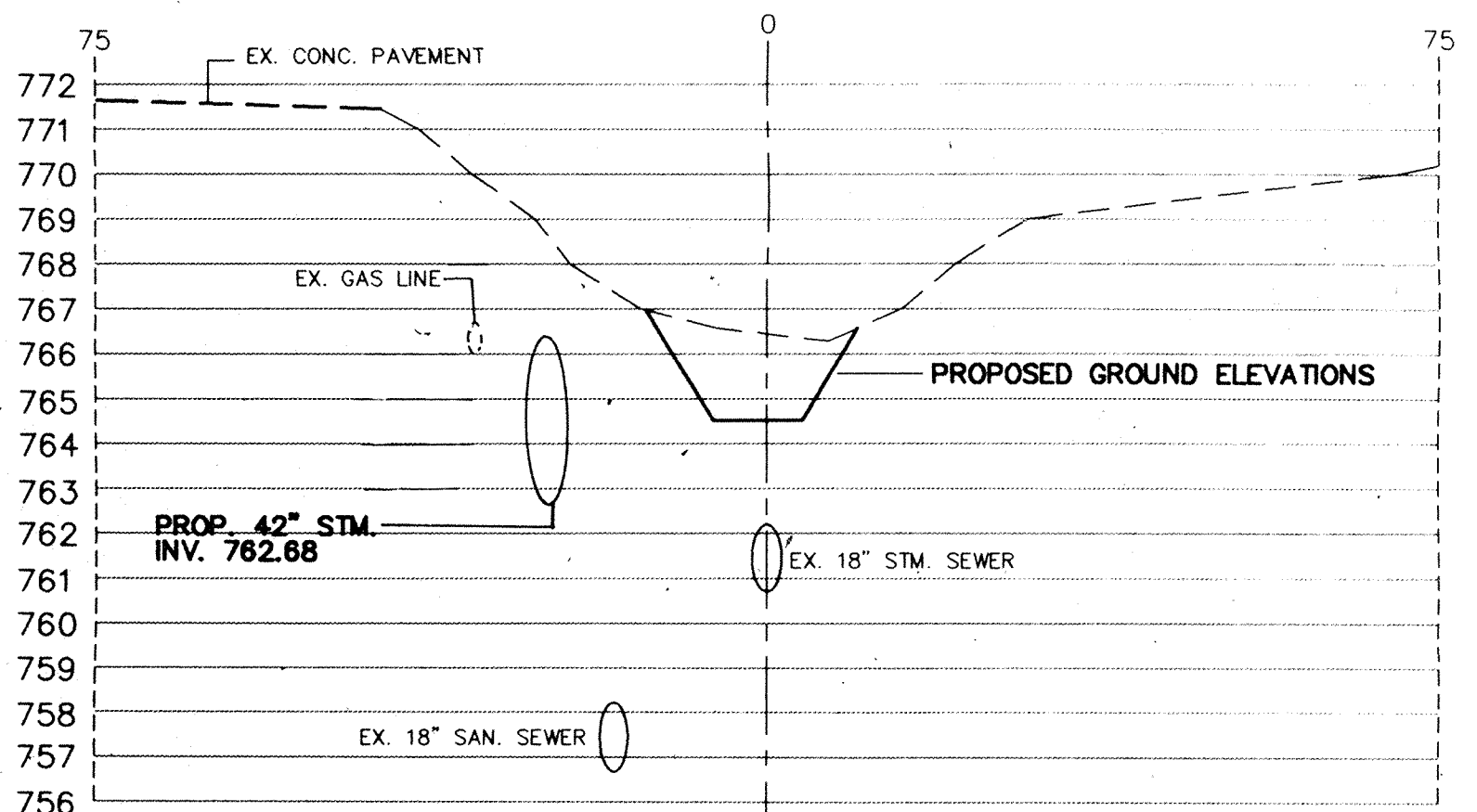
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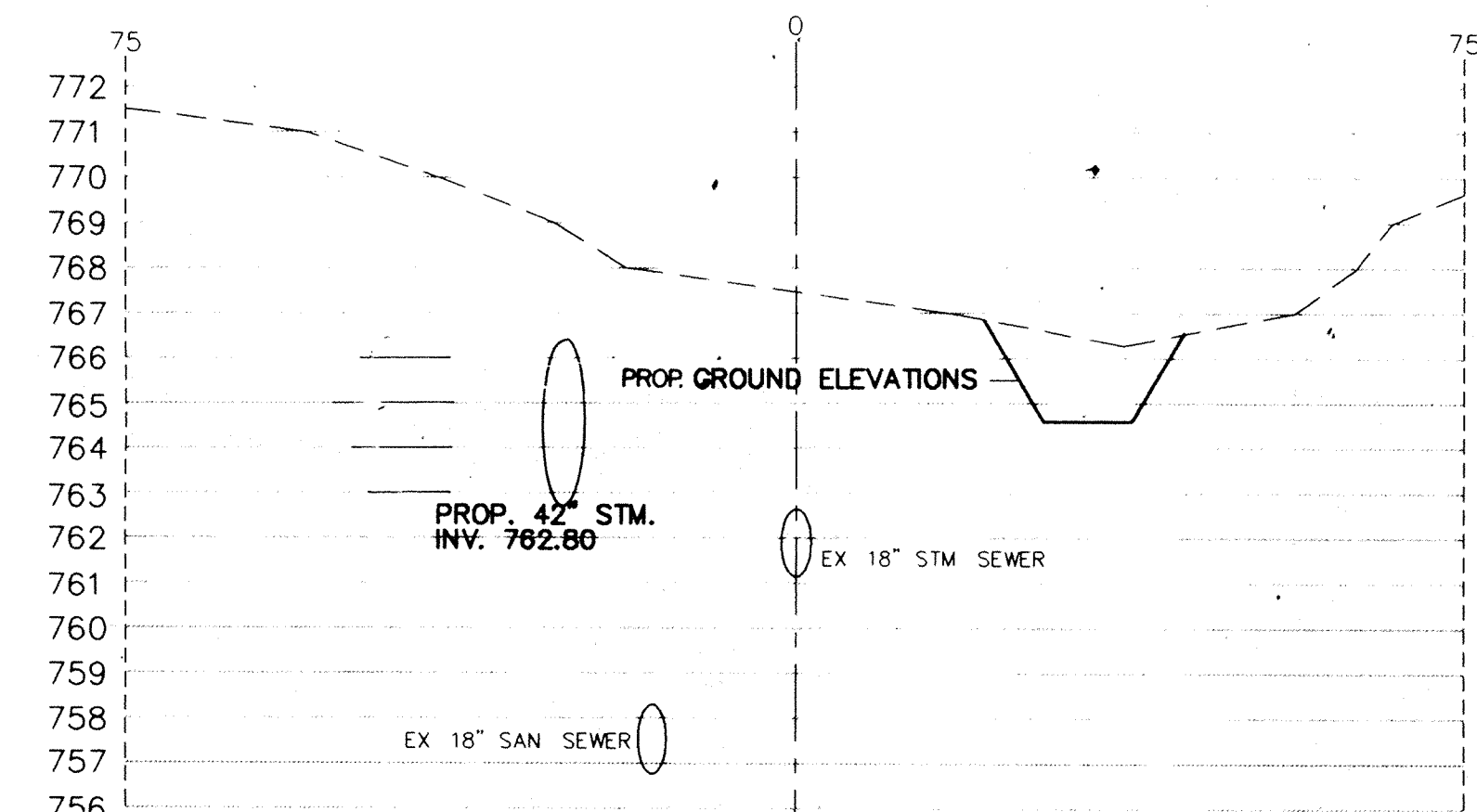
STATION 13+00



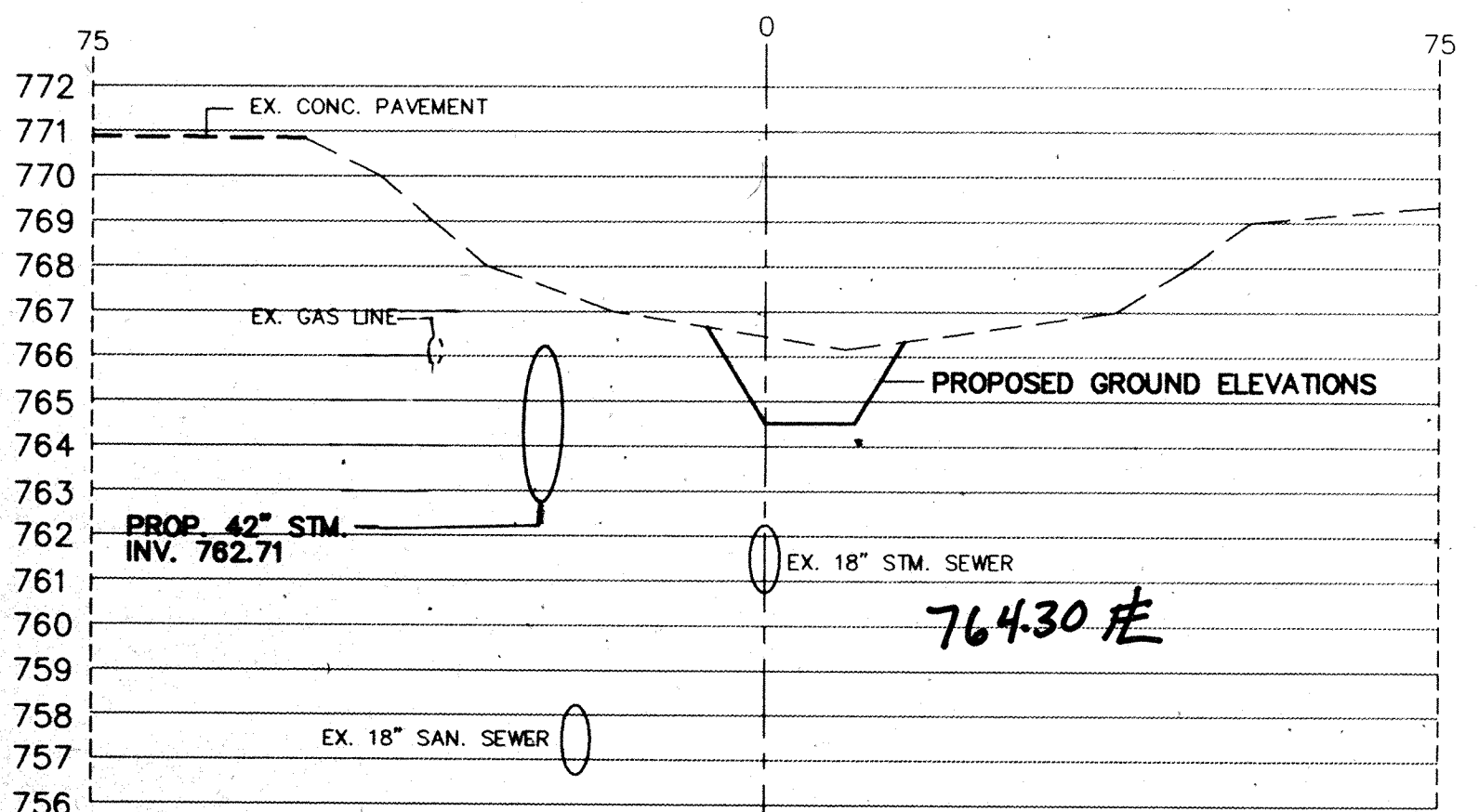
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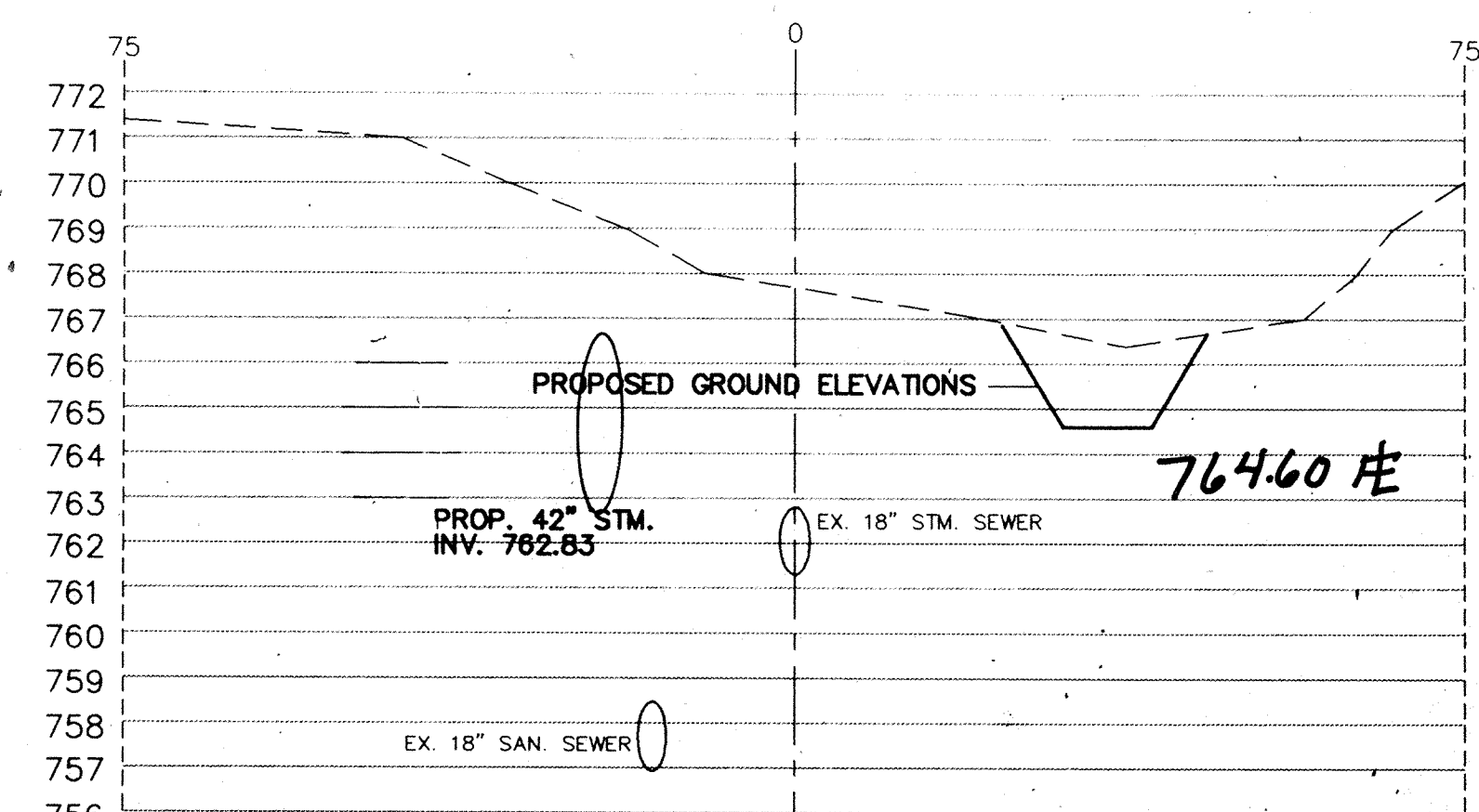
STATION 11+50



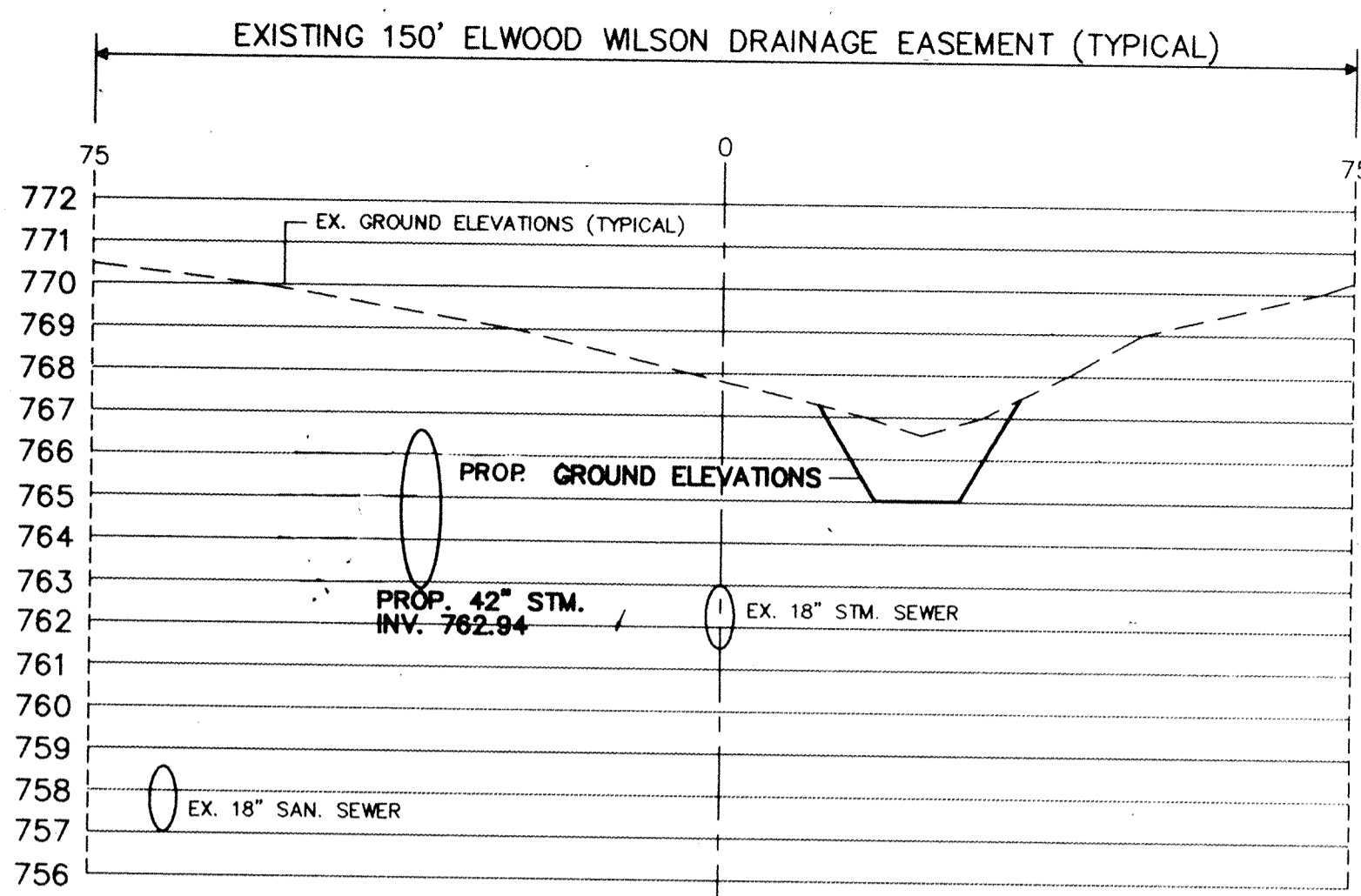
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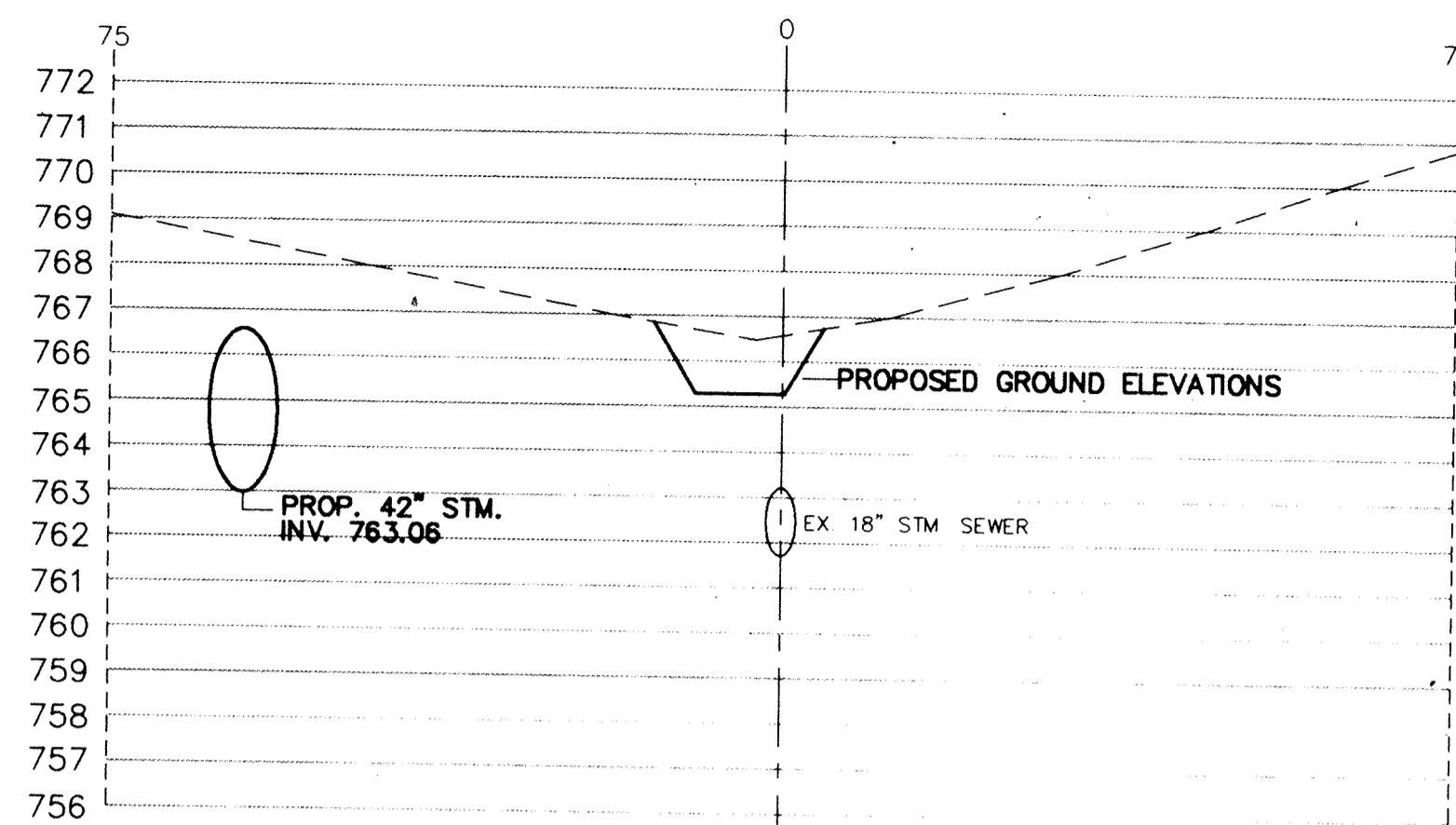
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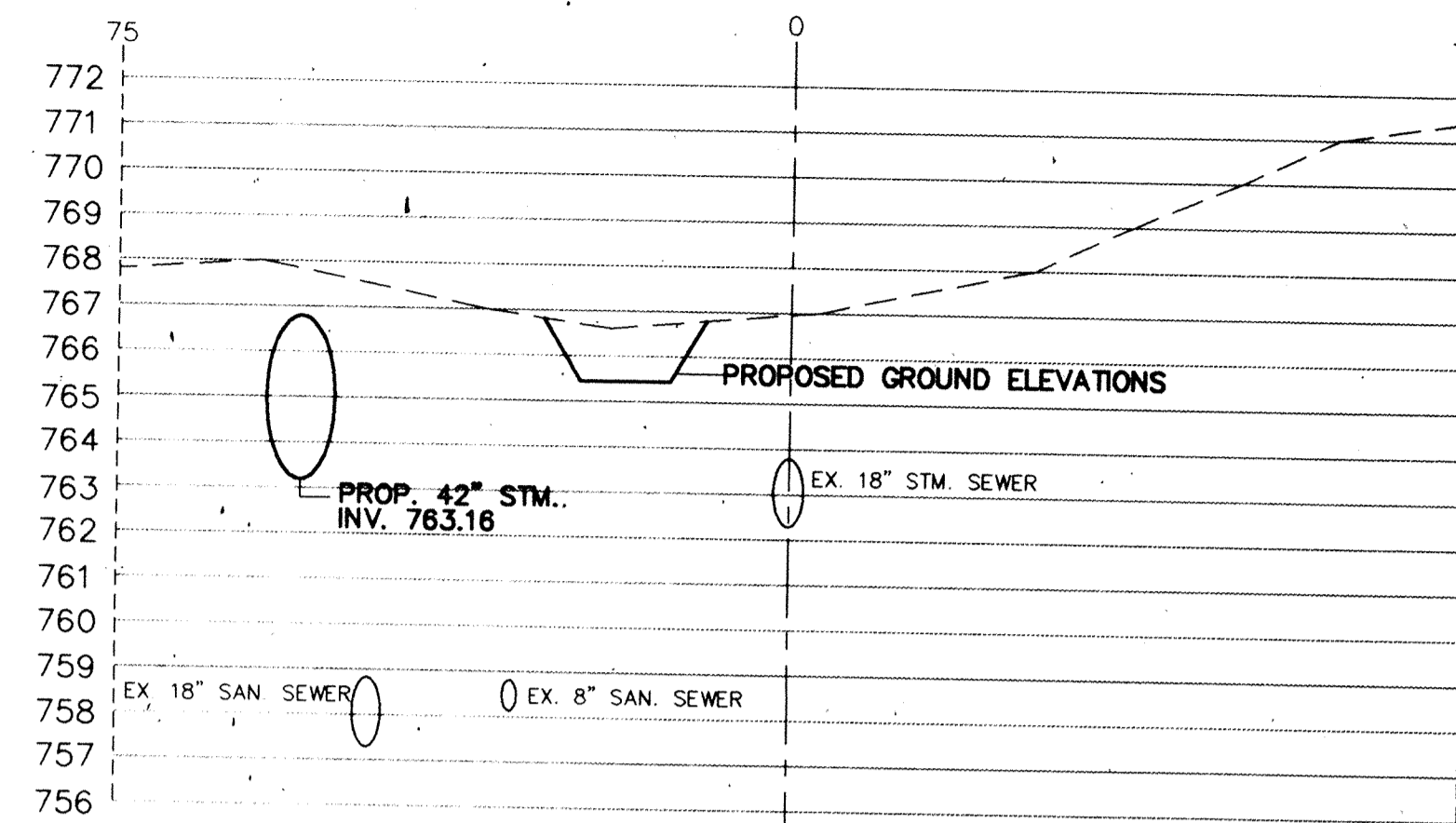
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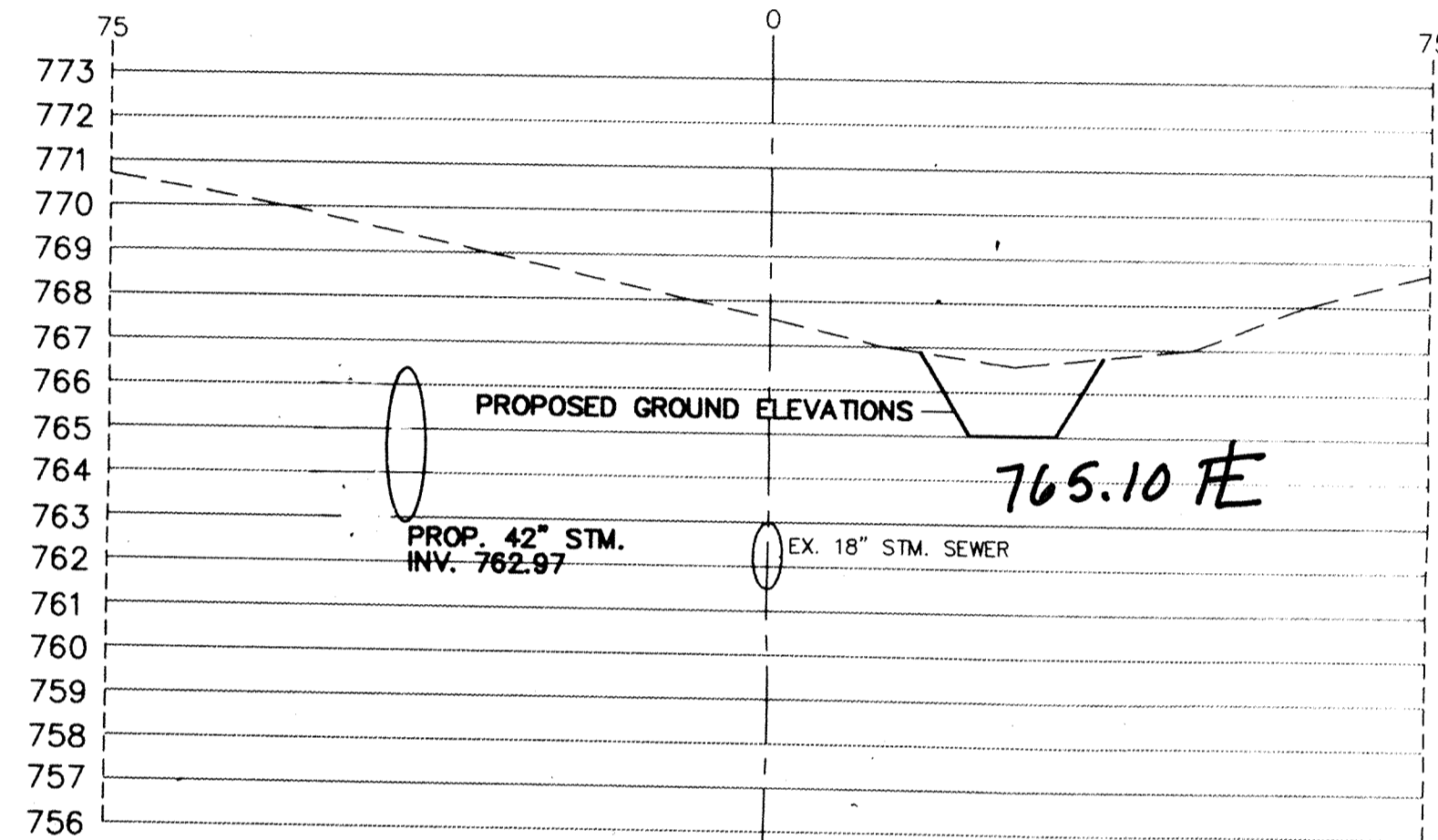
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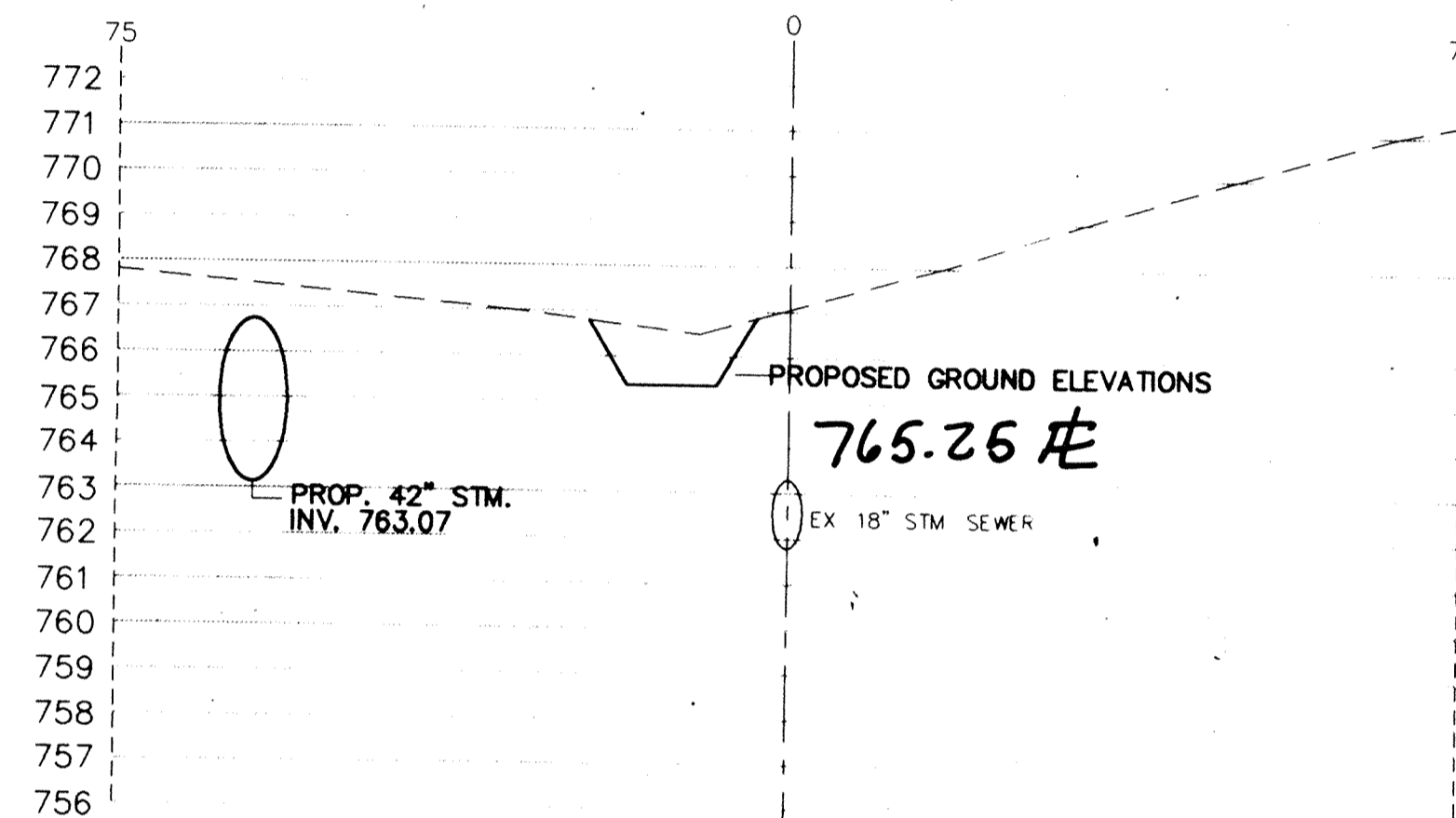
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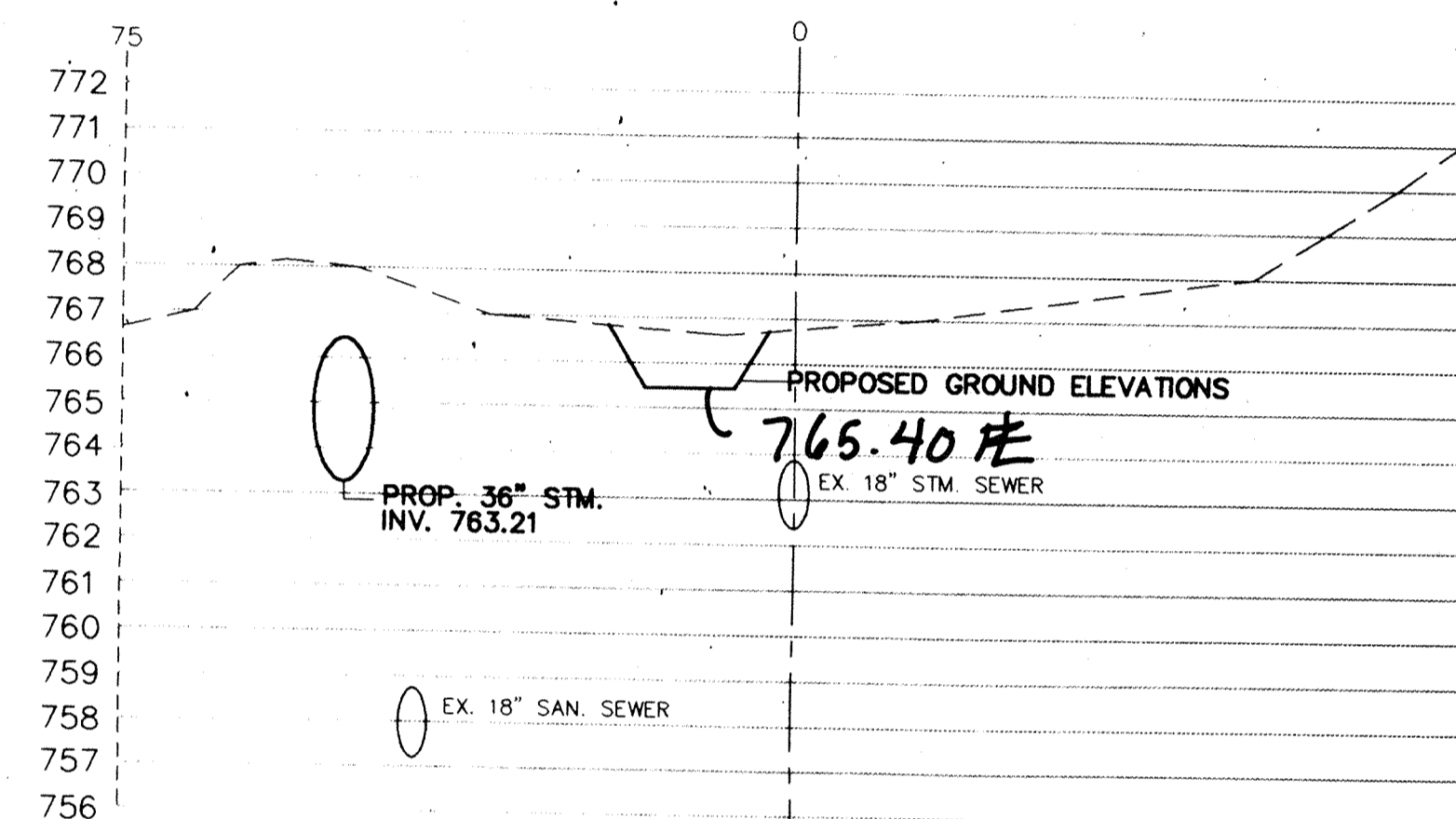
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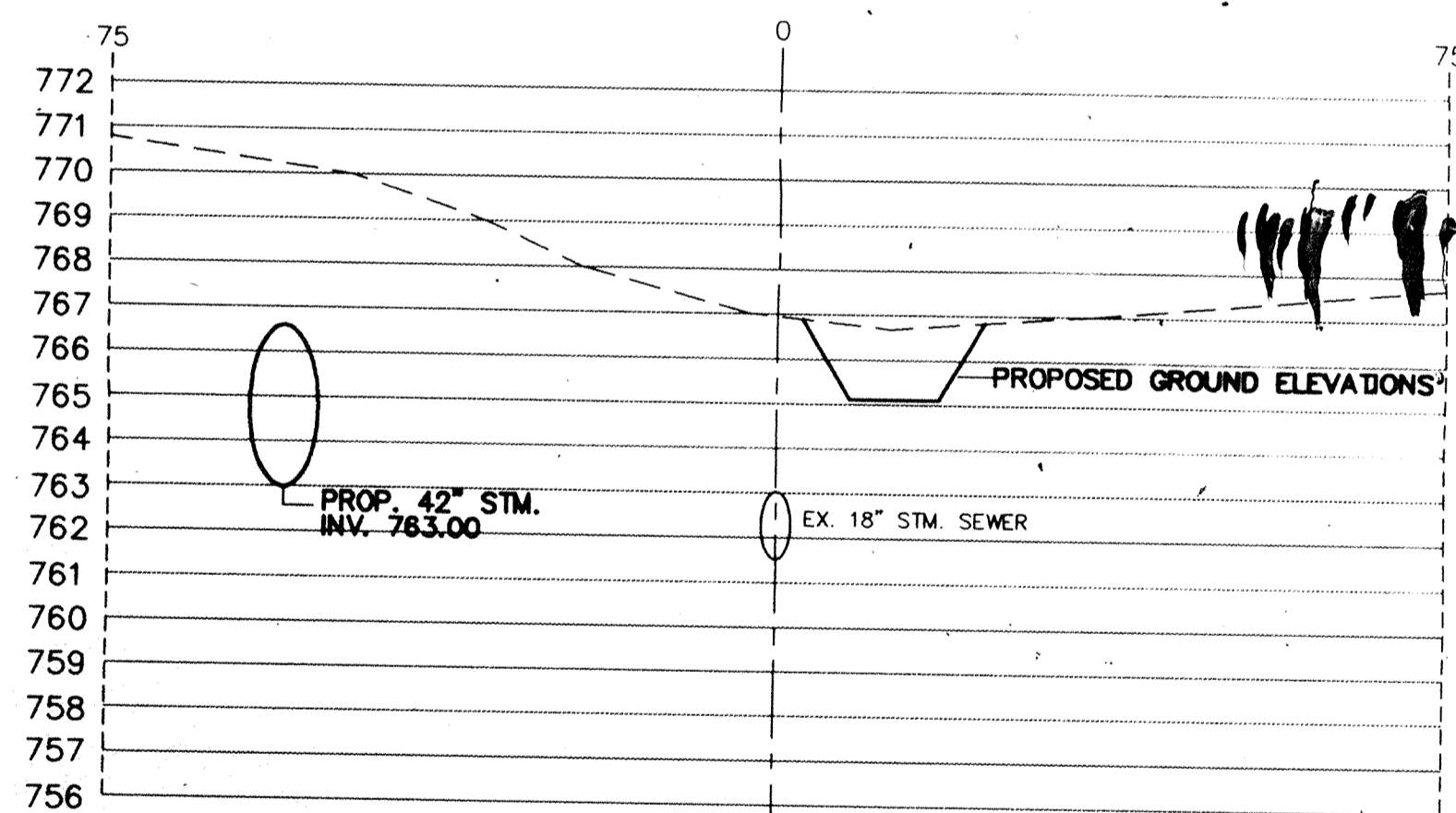
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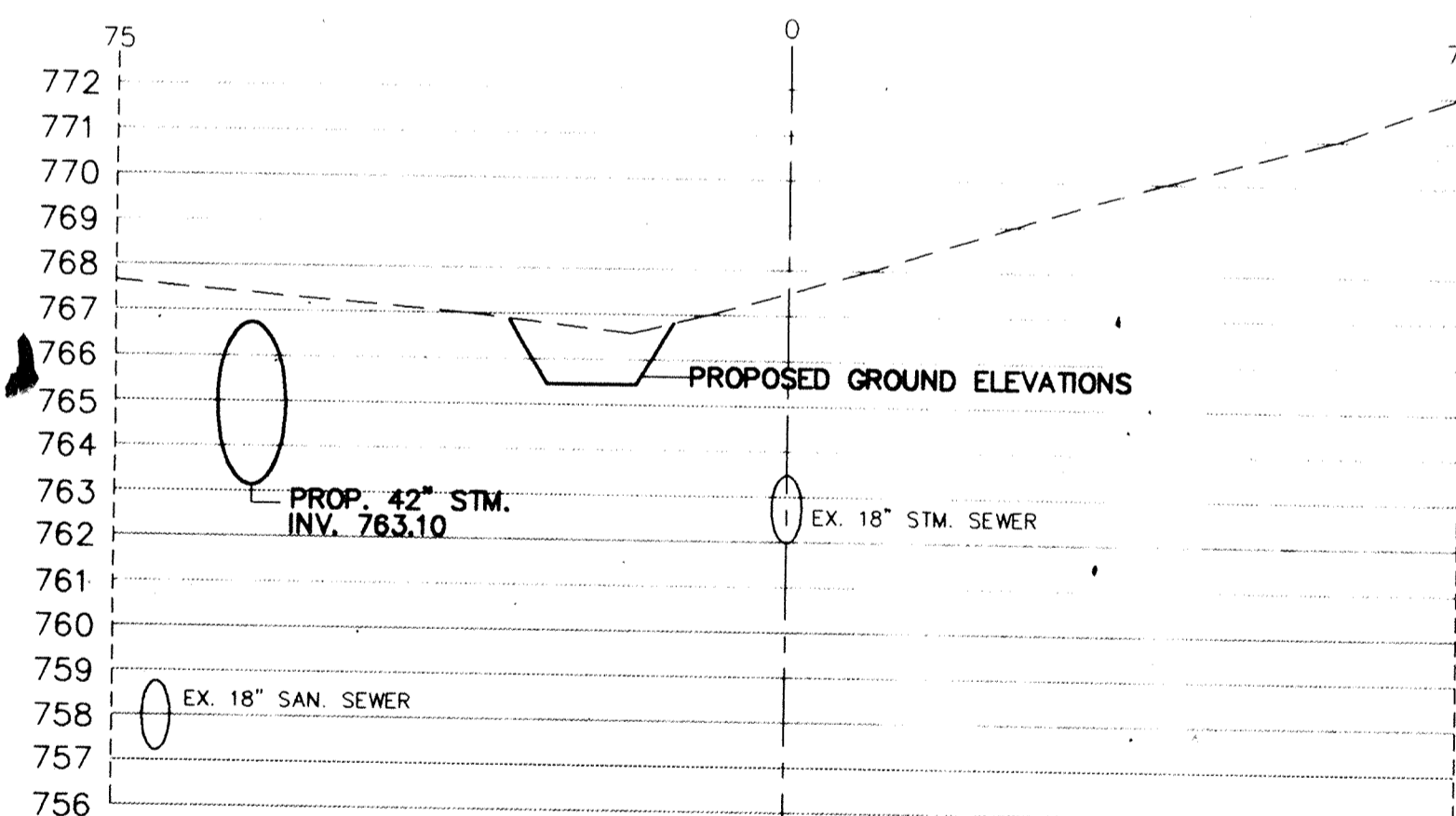
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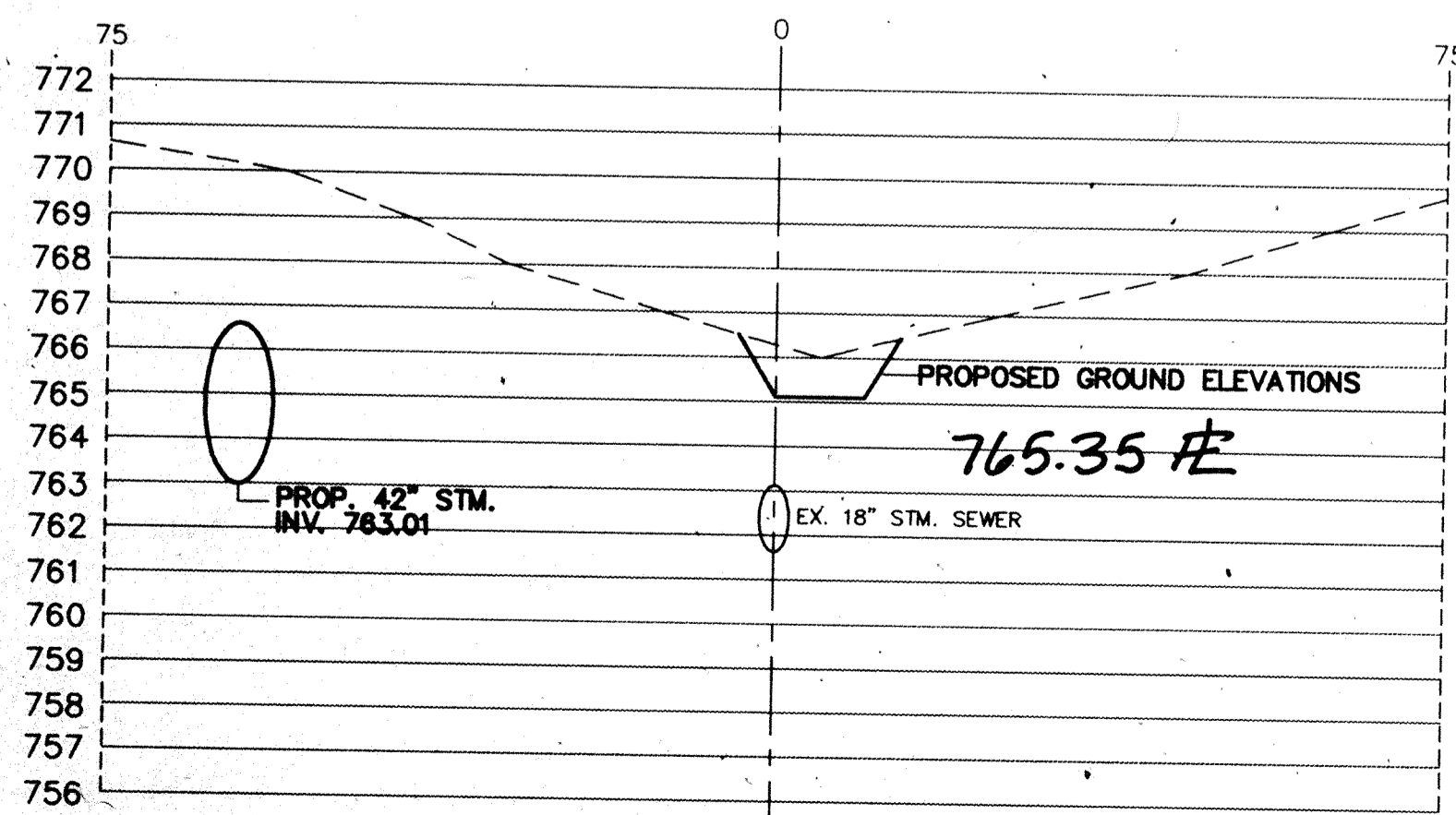
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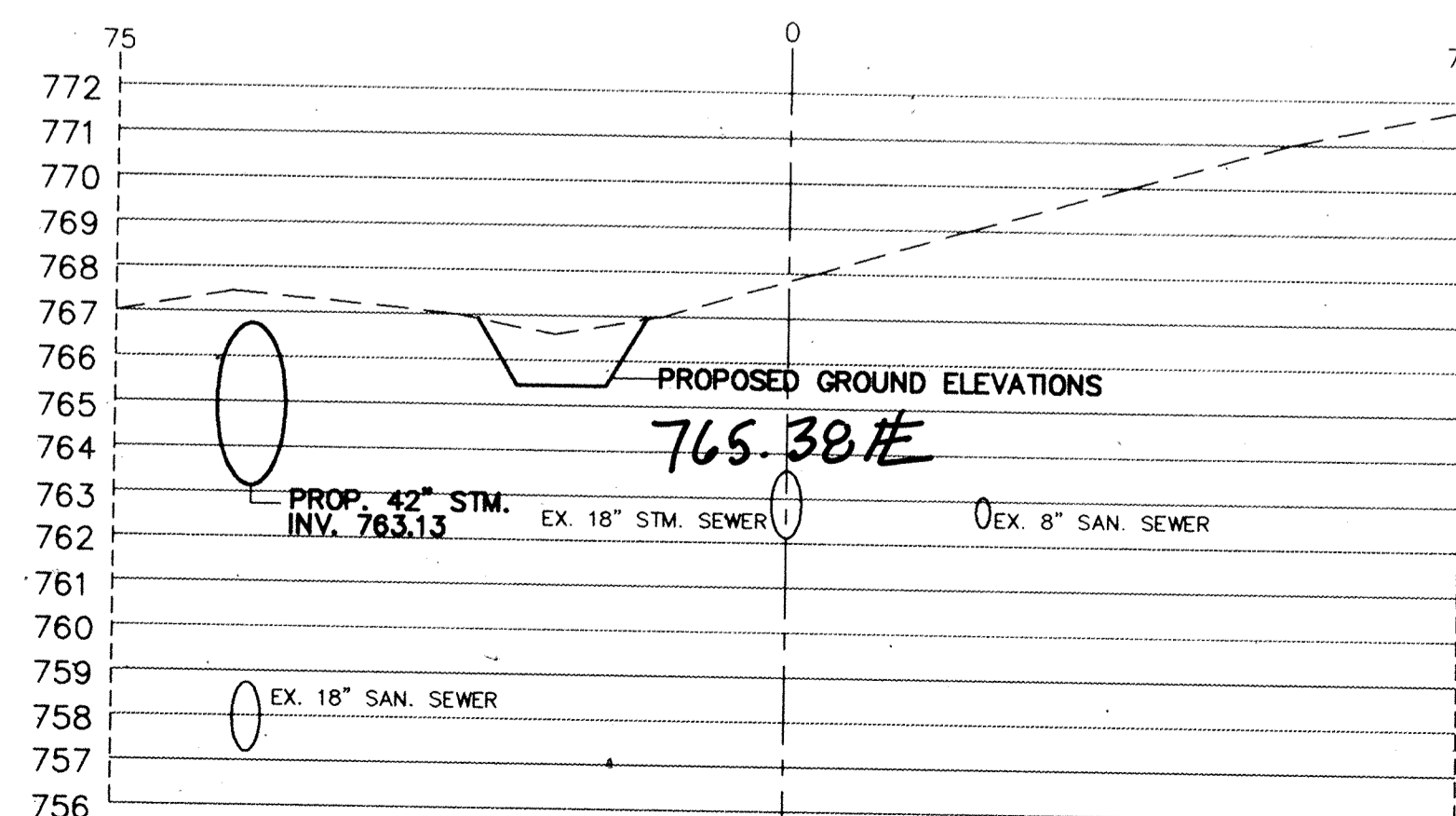
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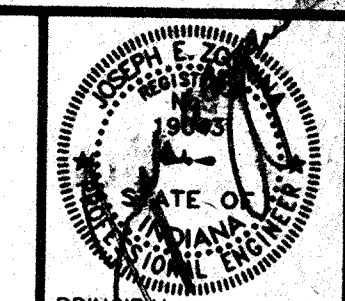
STATION 18+50



STATION 17+00



STATION 19+00



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CERTIFIED BY

PROJECT ENGINEER
CERTIFIED BY

PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
Δ	1-28-97	RECORD DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

marchris/moore associates of indiana

consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

Post Construction Survey

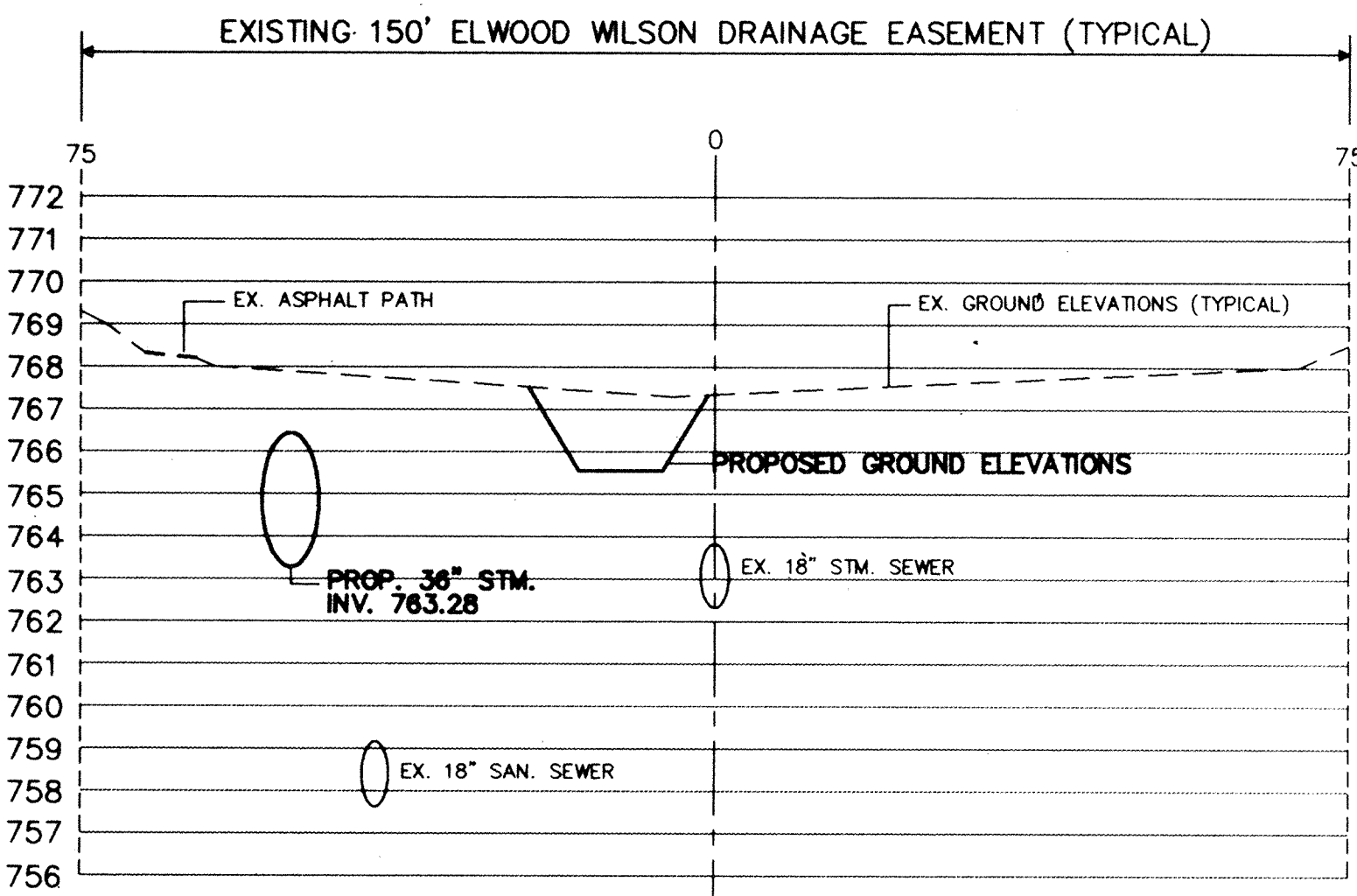


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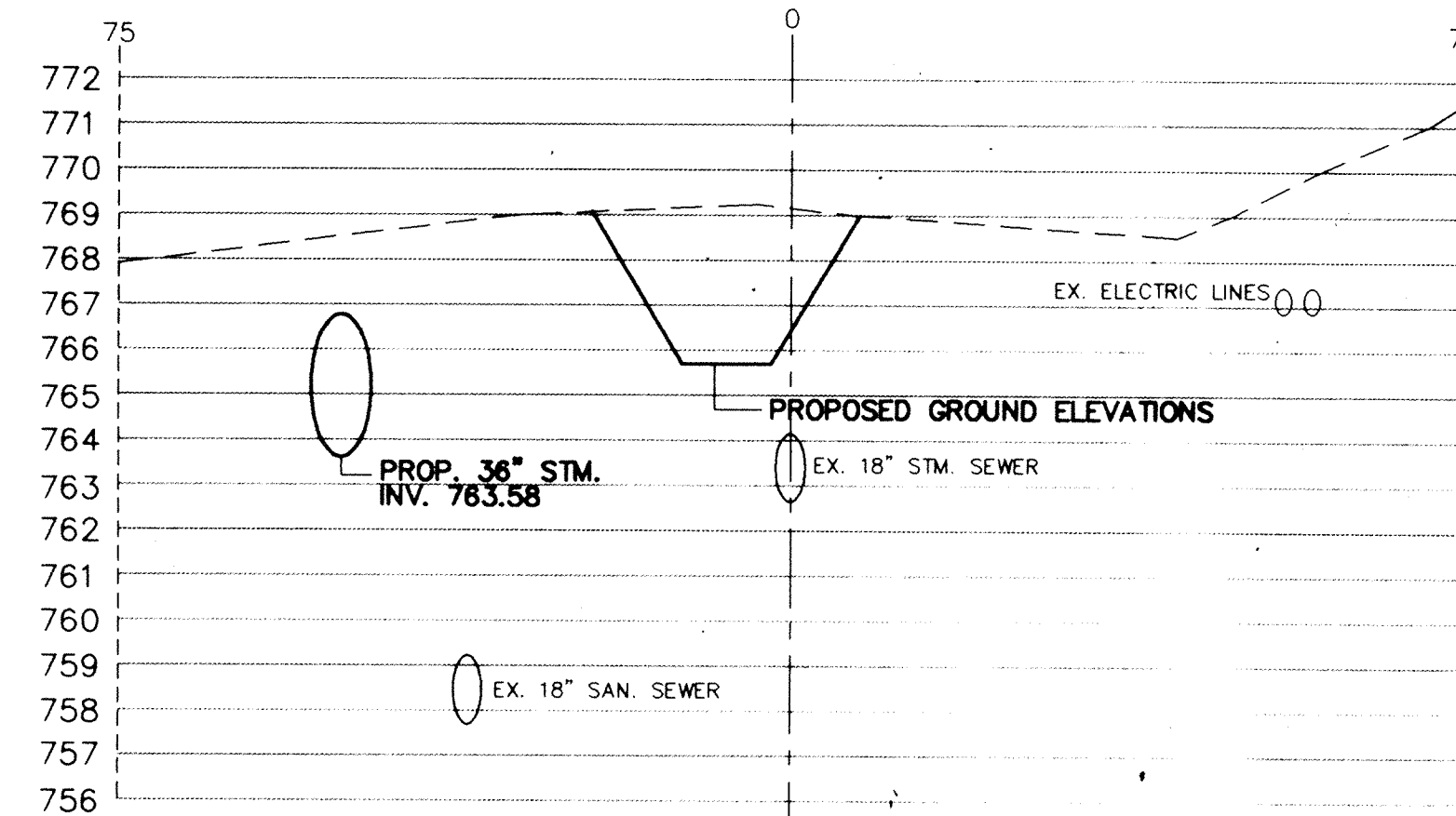
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
CROSS SECTIONS
STATION 15+50 TO
STATION 20+00

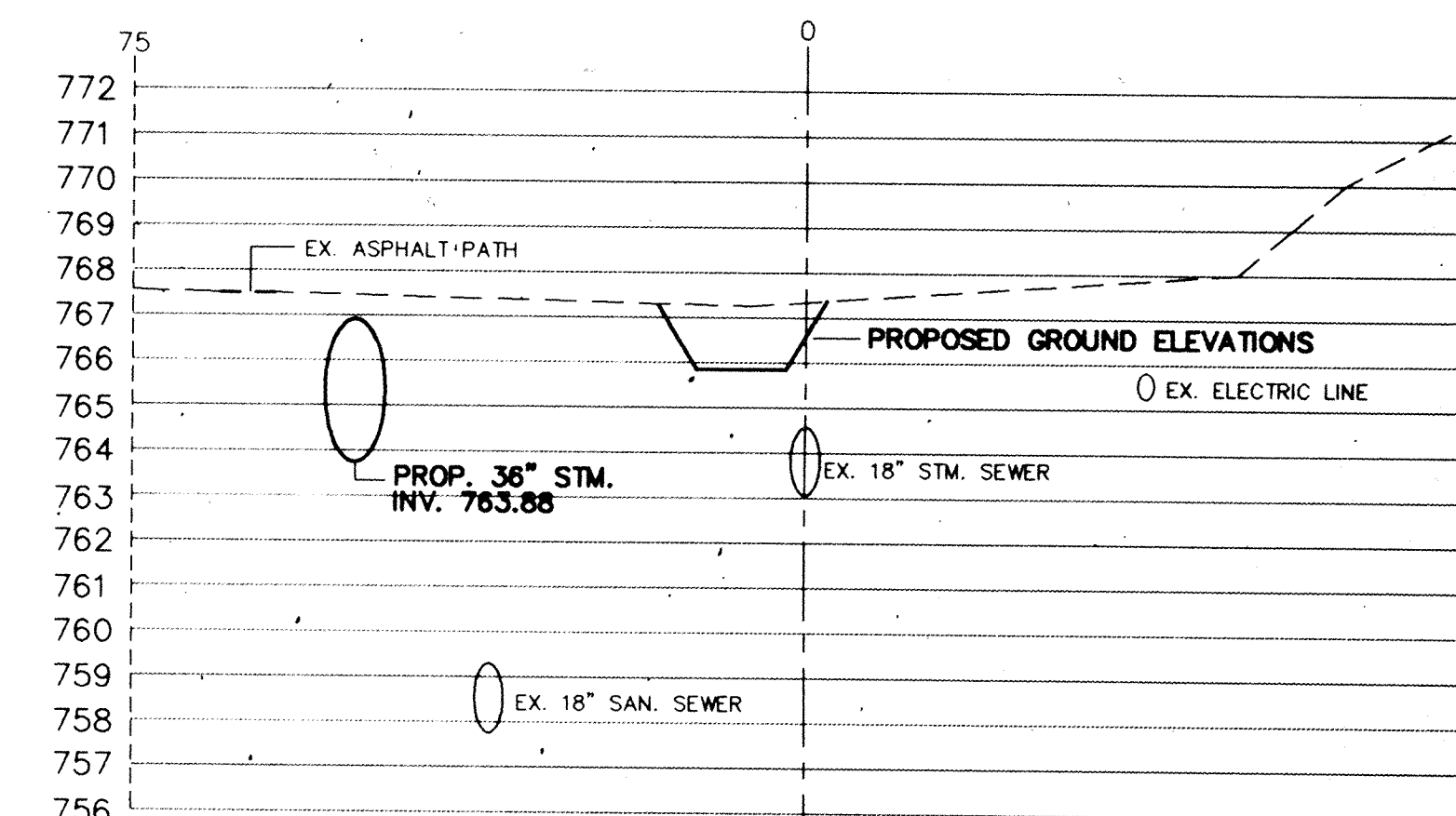
DATE 7-22-93 SHEET NO.
SCALE 1"=20'(HORIZ)
1"=4'(VERT) 11 of 20
JOB NO. 93-011
DRAWN BY S.WEBER



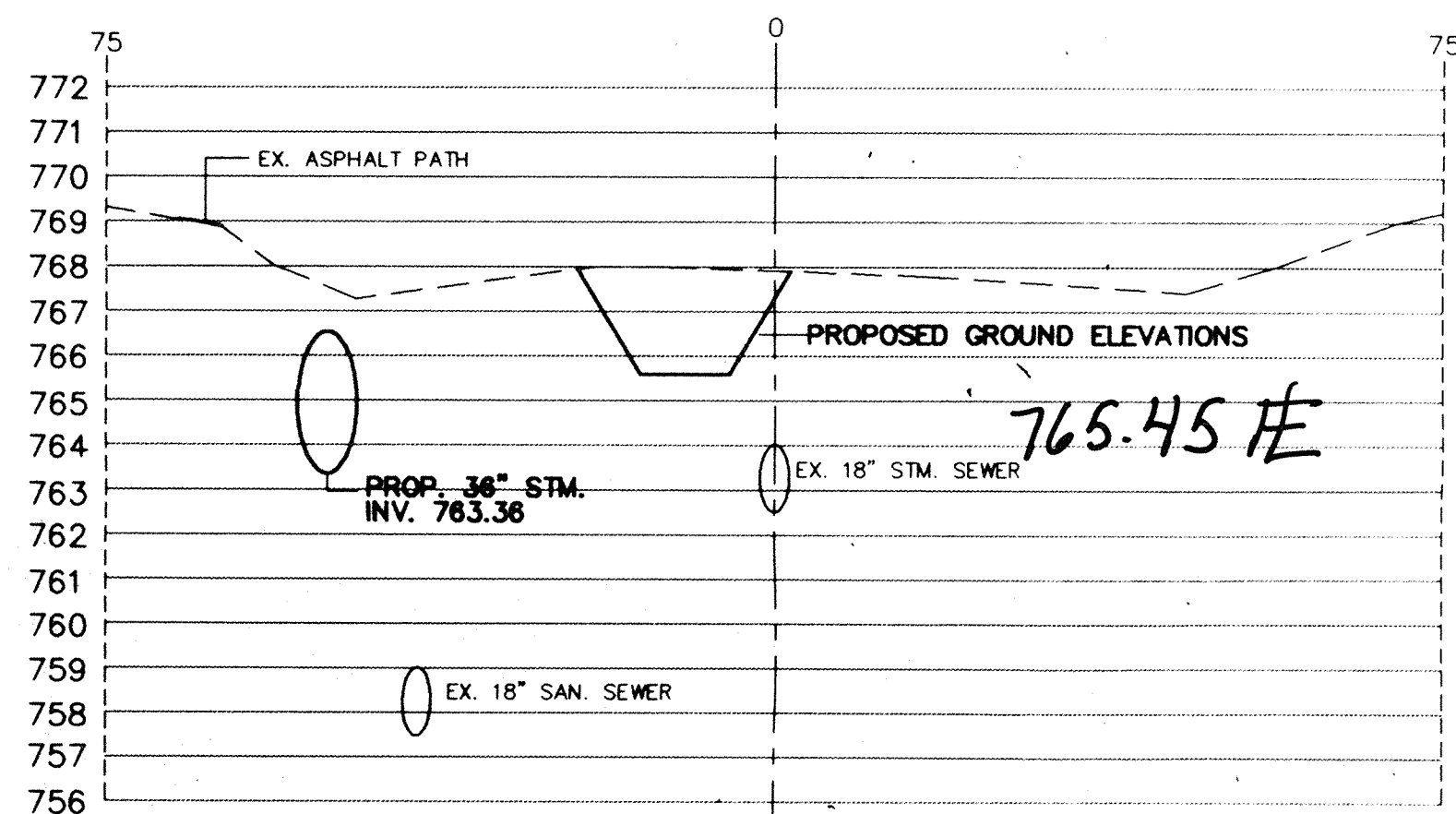
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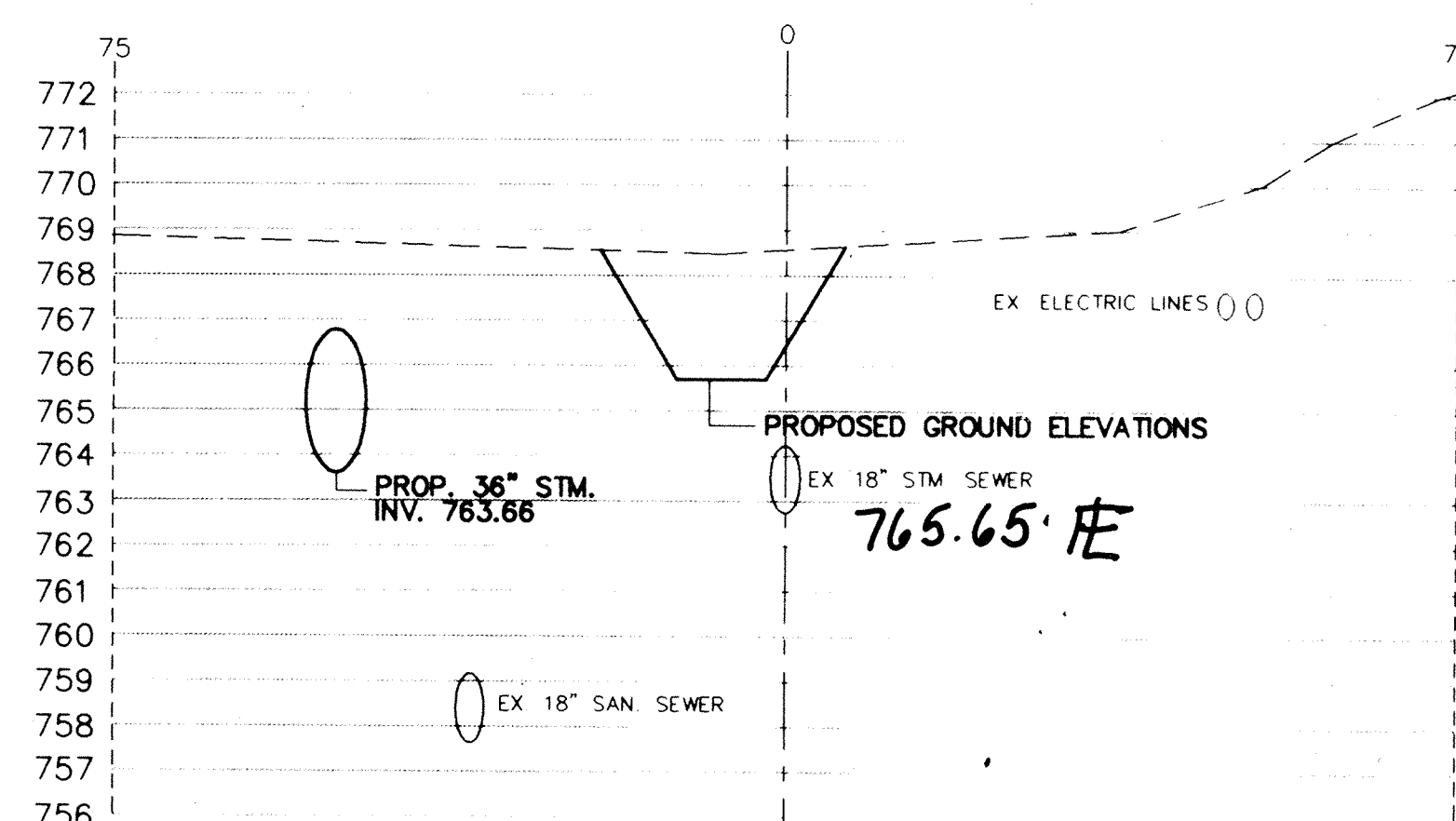
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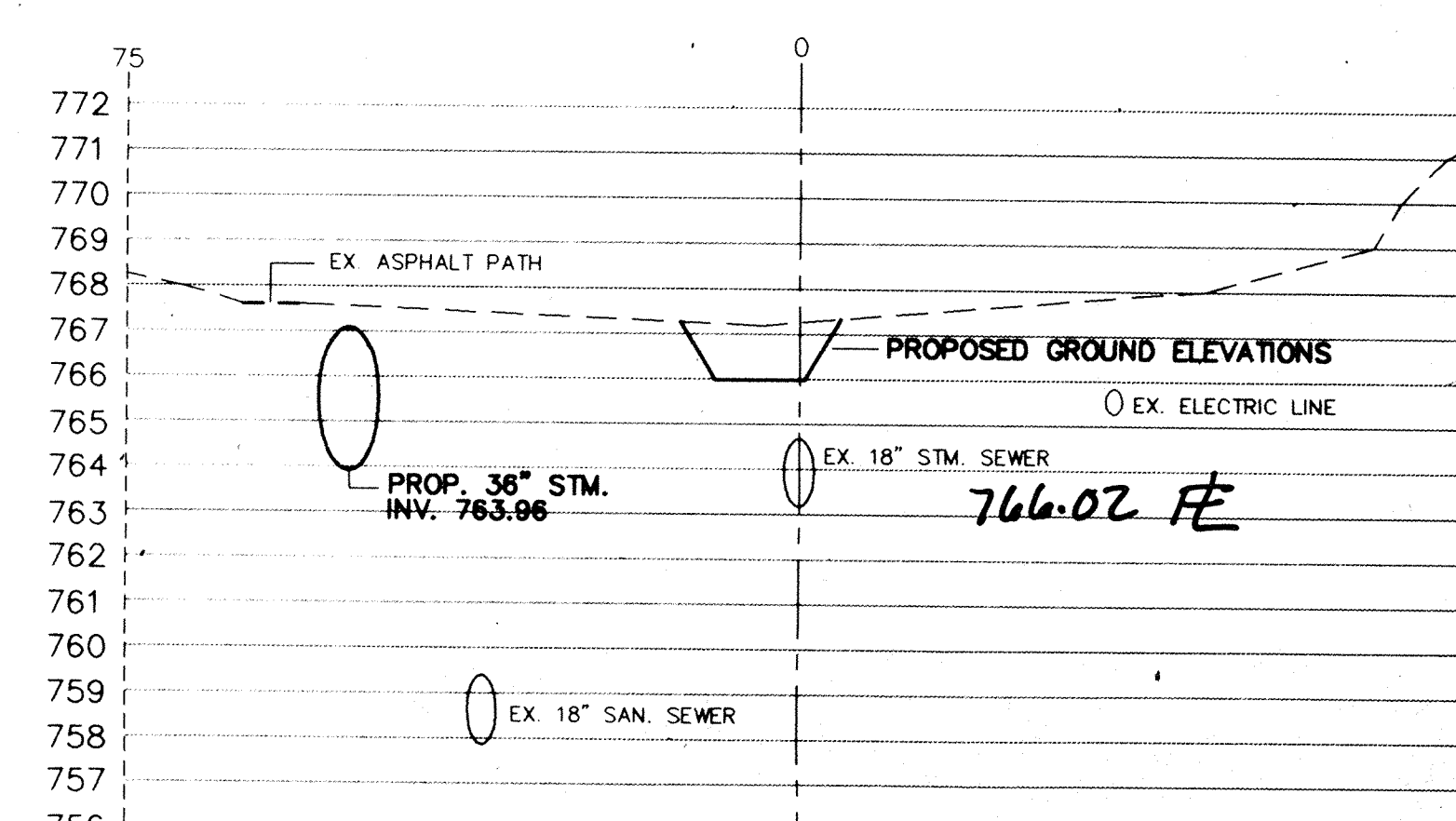
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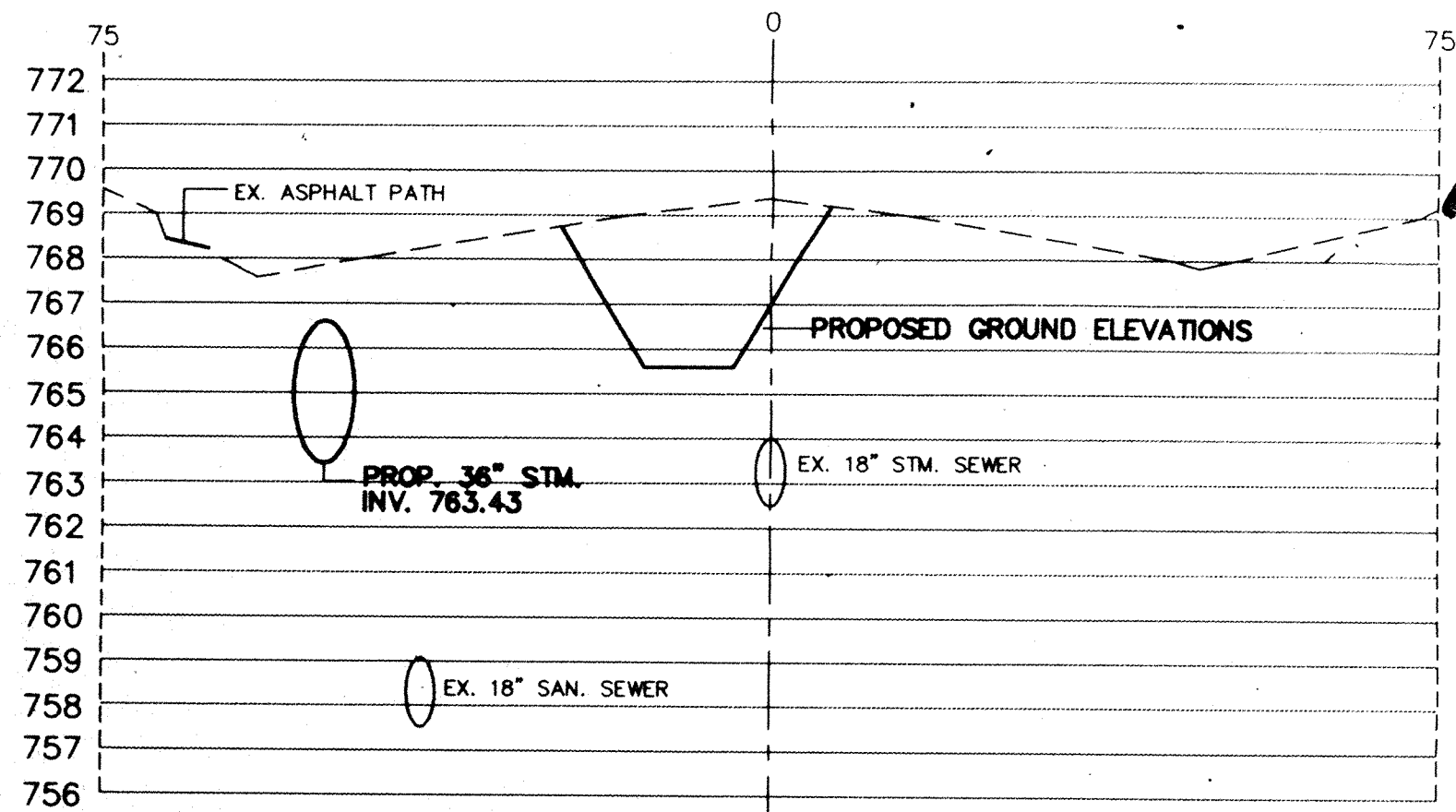
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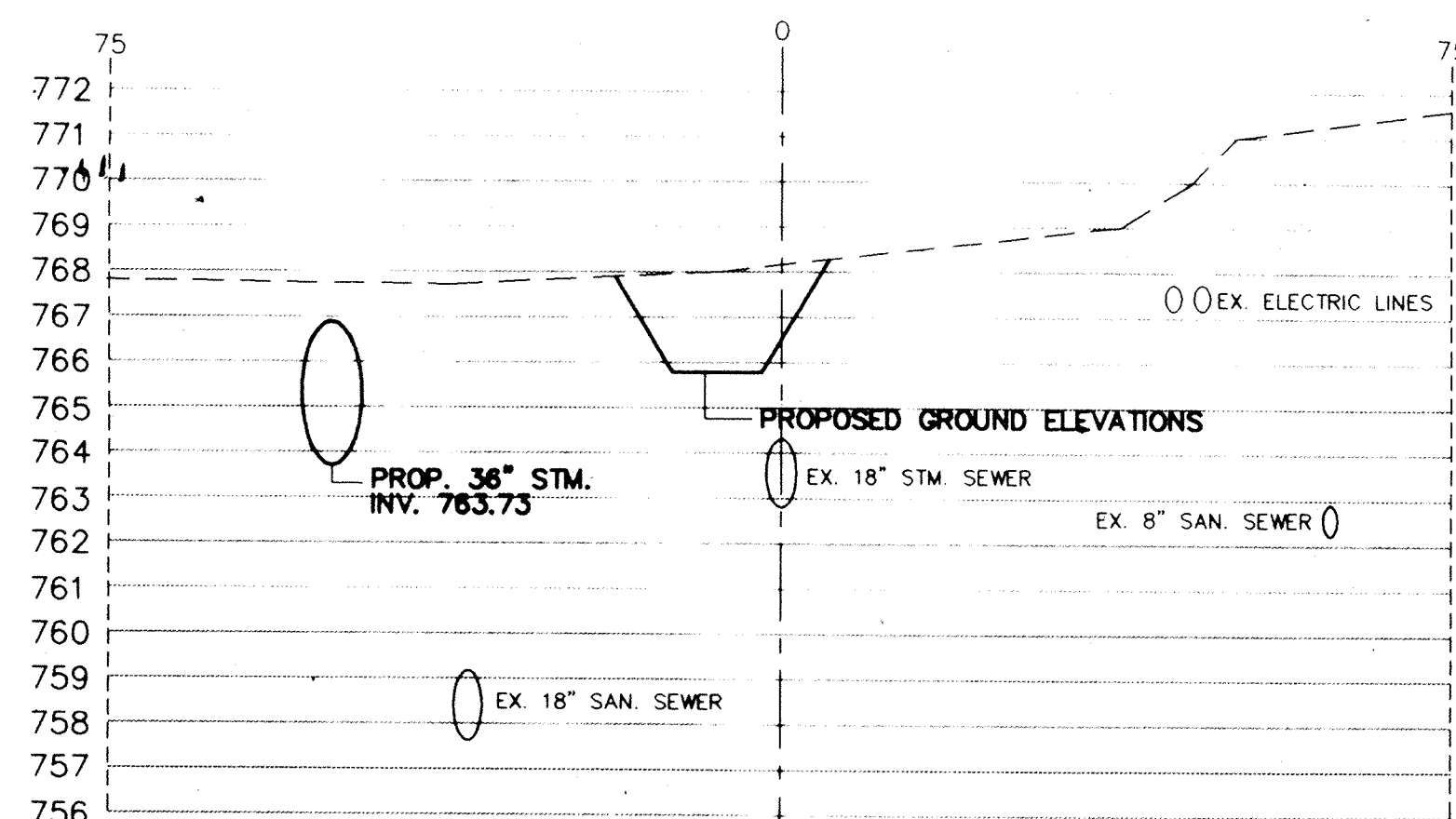
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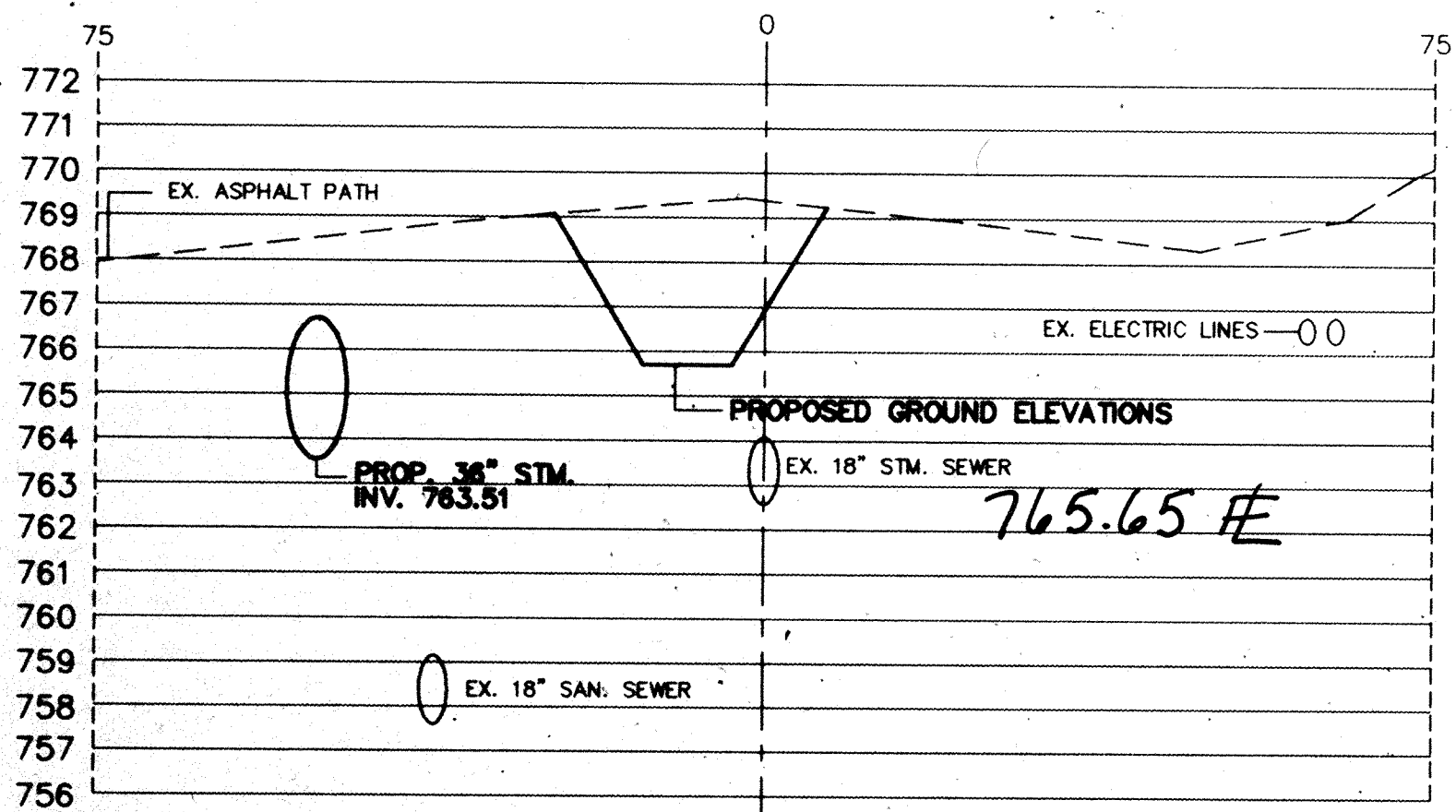
STATION 25+00



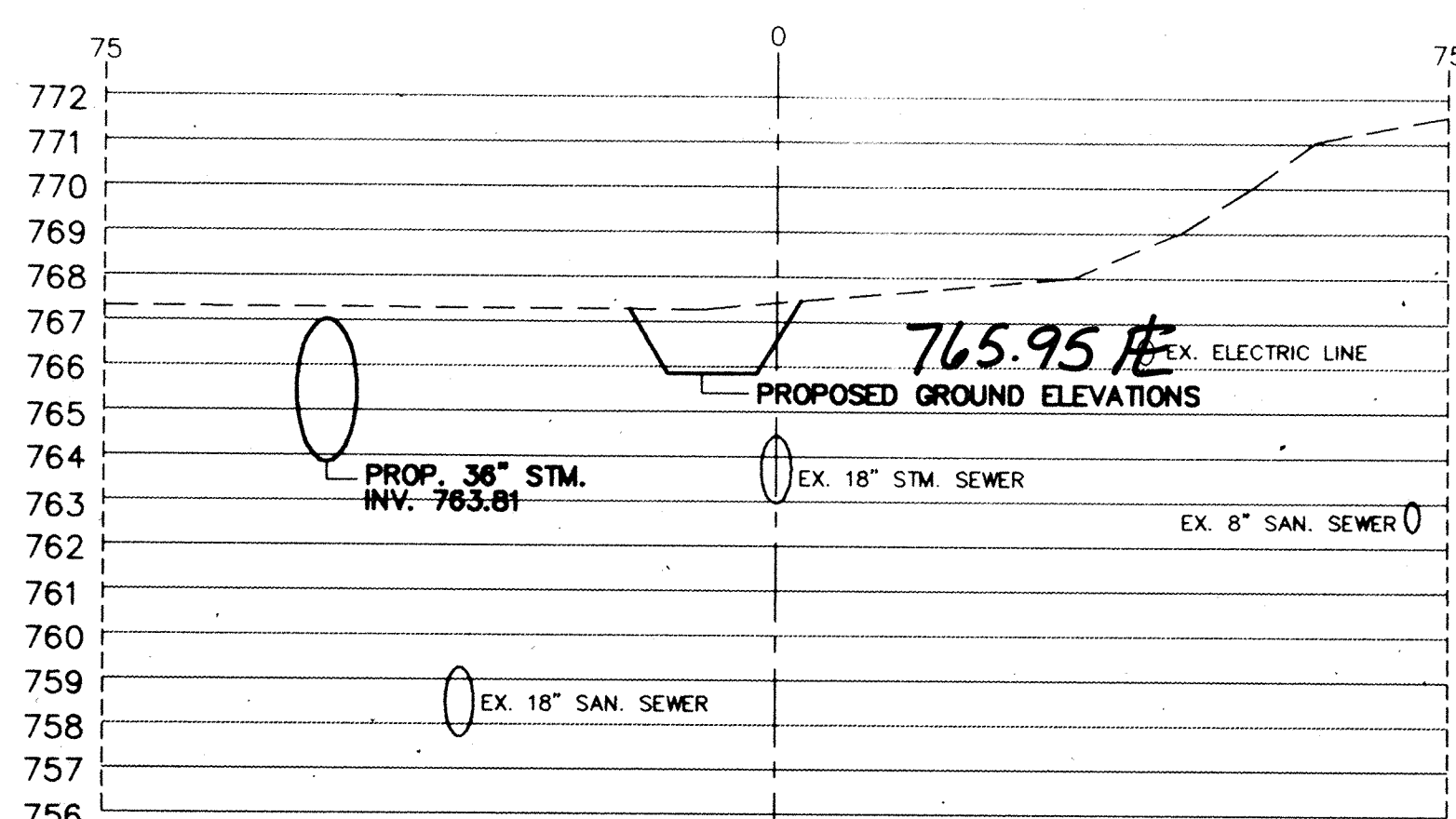
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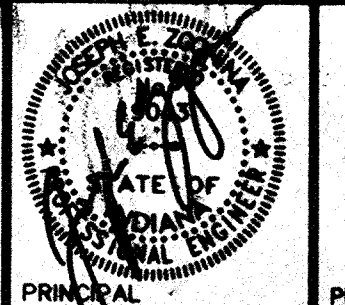
STATION 23+50



STATION 22+00



STATION 24+00



PROJECT ENGINEER

CERTIFIED BY

PRINCIPAL

PROJECT ENGINEER

CERTIFIED BY

PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-2-93	OFFICE REVIEW
△	1-28-97	RECORD DRAWINGS

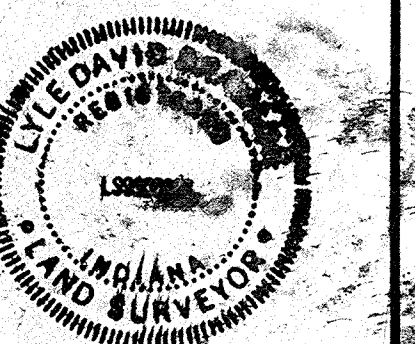
NOBLESVILLE HIGH SCHOOL OFF-SITE
 ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
 NOBLESVILLE, INDIANA

marchis/moore associates of indiana

consulting engineers

9245 North Meridian Street
 Suite 105
 Indianapolis, In 46260-1812
 (317) 843-2520 FAX 848-2765

Post Construction Survey



FILED

FEB 19 1997

OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
**CROSS SECTIONS
 STATION 20+50 TO
 STATION 25+00**

DATE	7-22-93	SHEET NO.
SCALE	1"=20'(HORIZ) 1"=4'(VERT)	12 of 20
JOB NO.	93-011	
DRAWN BY	S. WEBER	



PROJECT ENGINEER

CERTIFIED BY

PRINCIPAL

PROJECT ENGINEER

CERTIFIED BY

PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
Δ	1-18-97	RECORD DRAWINGS

**NOBLESVILLE
HIGH SCHOOL
OFF-SITE**

ELWOOD WILSON DRAINAGE EASEMENT
IMPROVEMENTS - CHERRY STREET TO
MONUMENT STREET
NOBLESVILLE, INDIANA

marChris/moore associates
of indiana

consulting engineers

9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

Post Construction
Survey

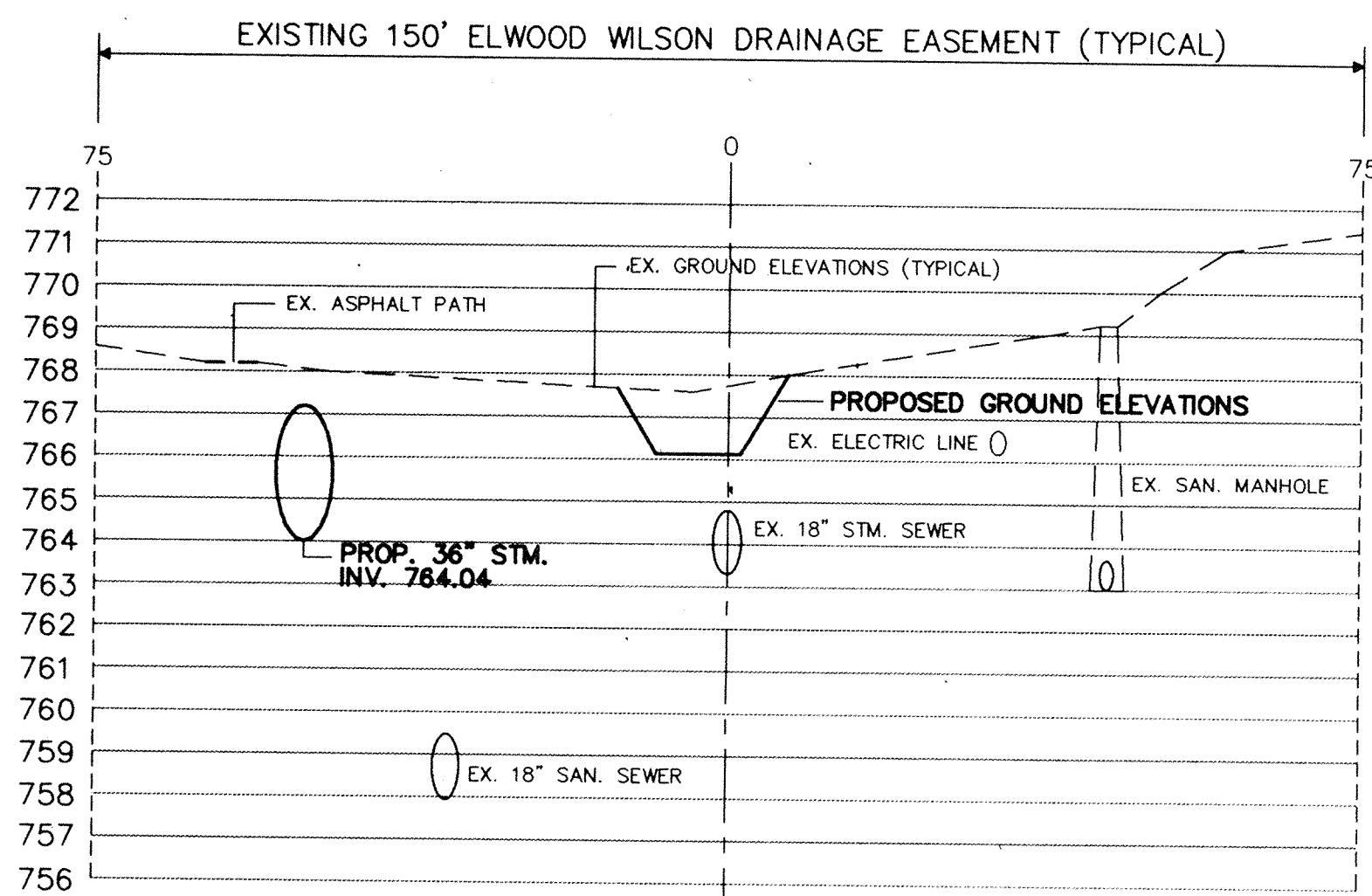


FILED

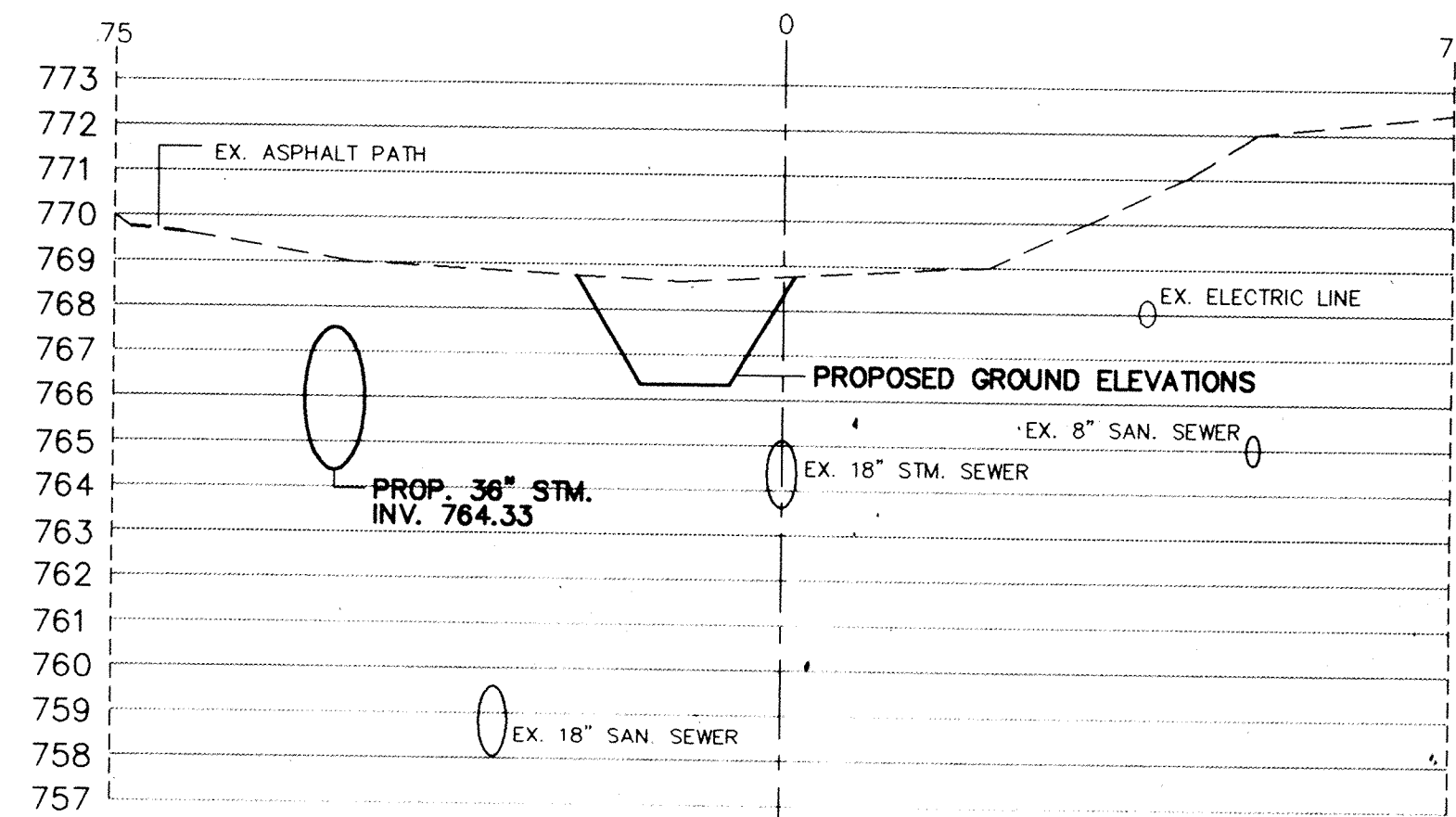
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
CROSS SECTIONS
STATION 25+50 TO
STATION 30+00

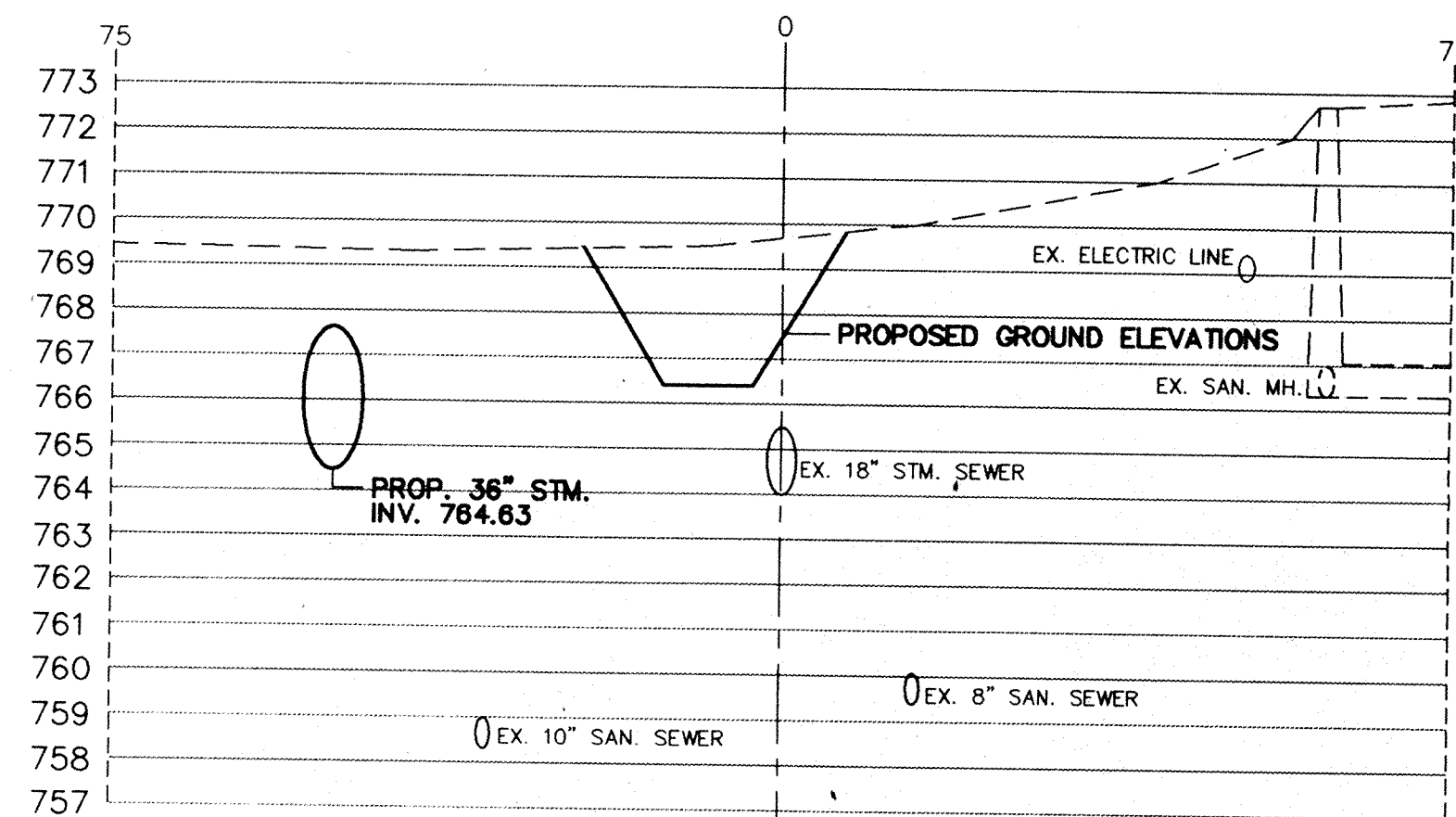
DATE	7-22-93	SHEET NO.
SCALE	1"=20'(HORIZ) 1"=4'(VERT)	13 of 20
JOB NO.	93-011	
DRAWN BY	S.WEBER	



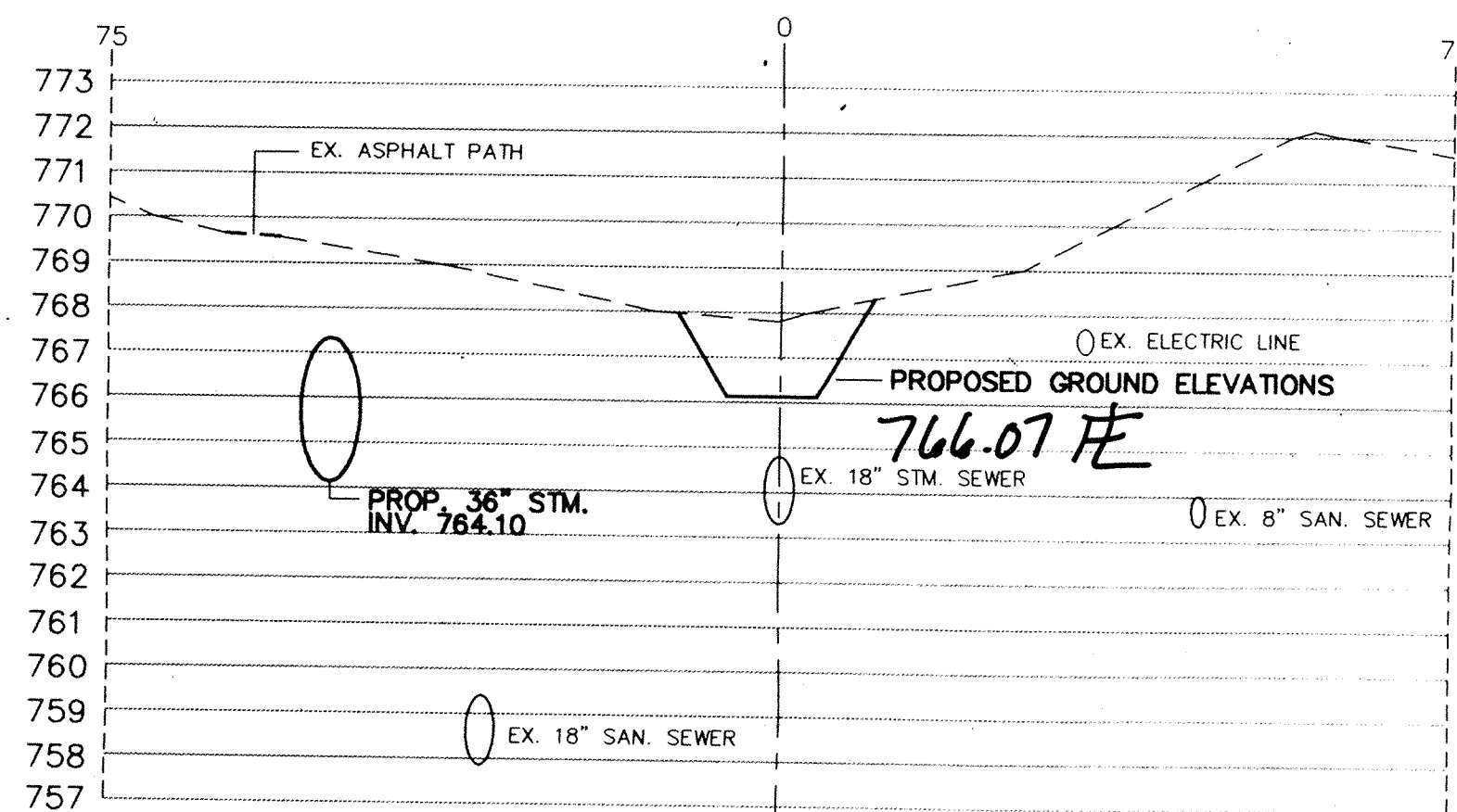
STATION 25+50



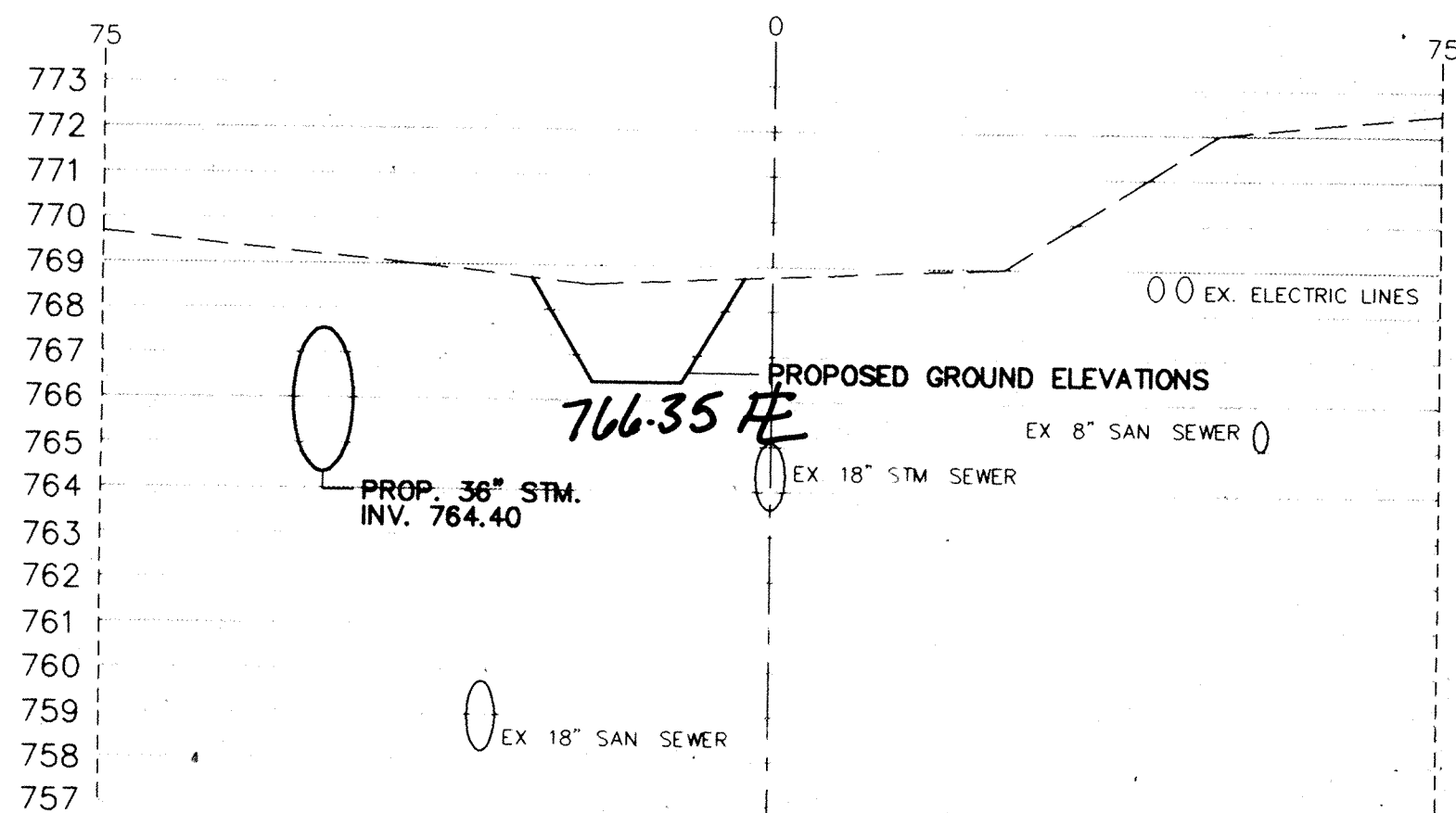
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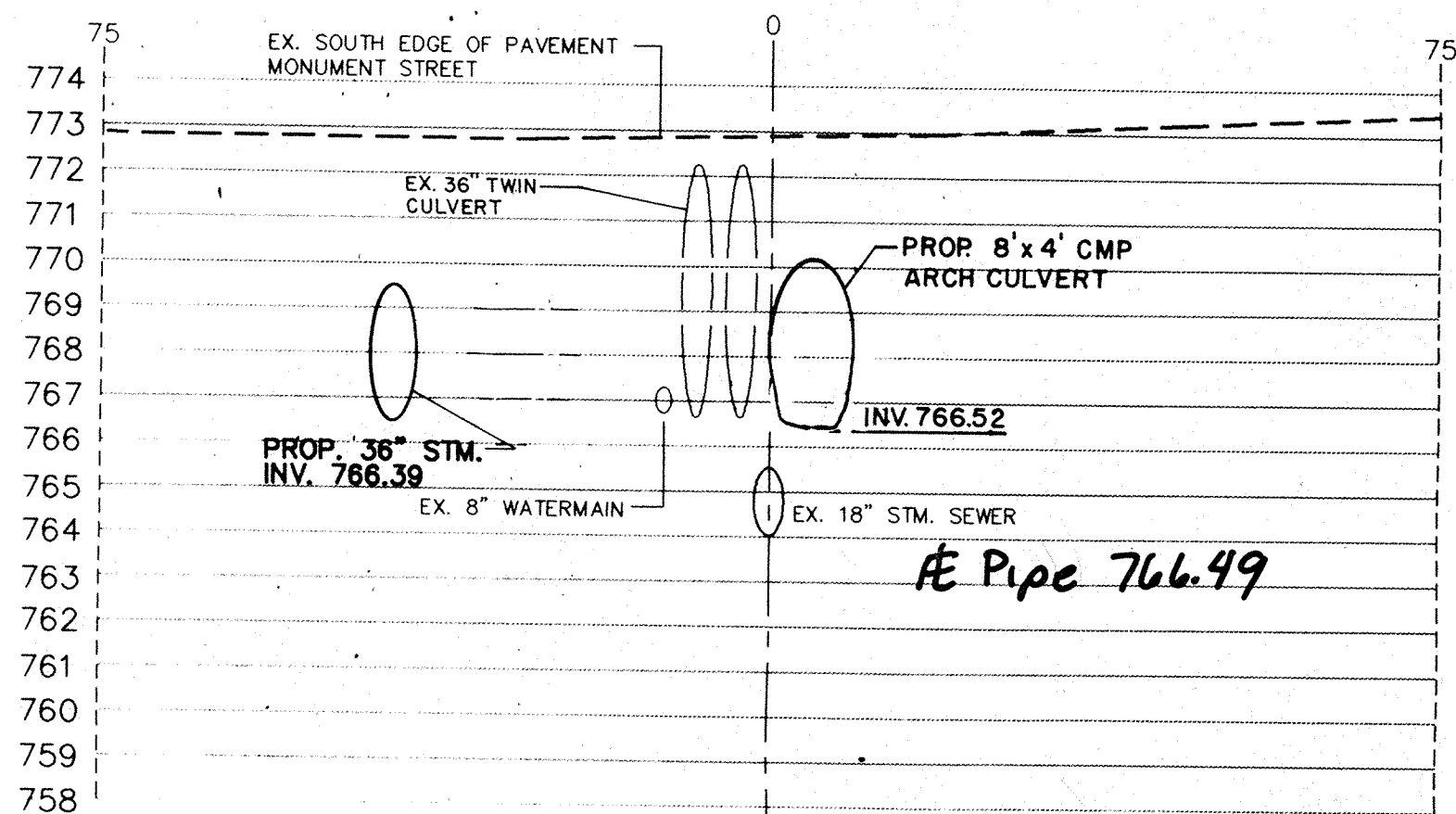
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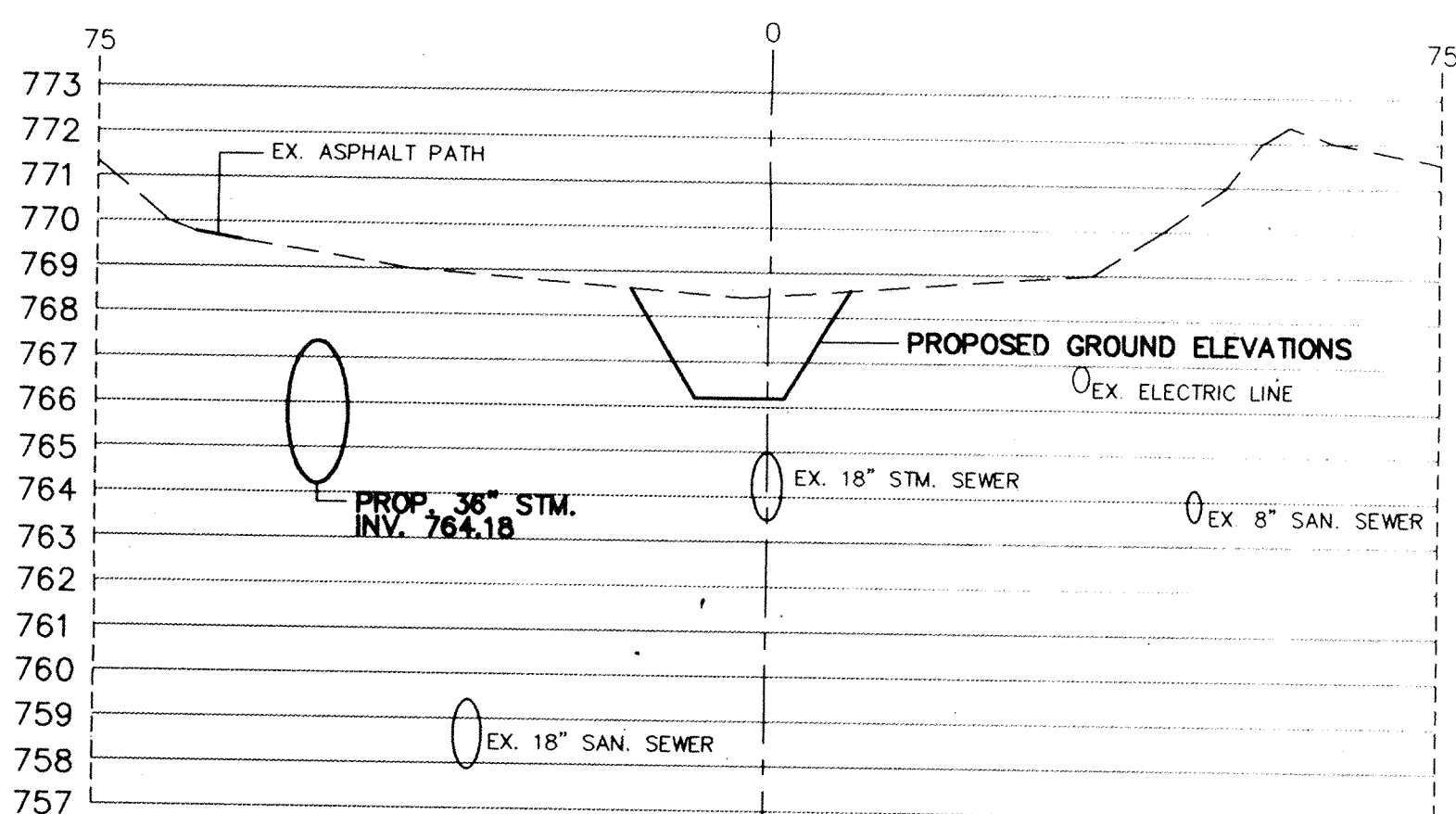
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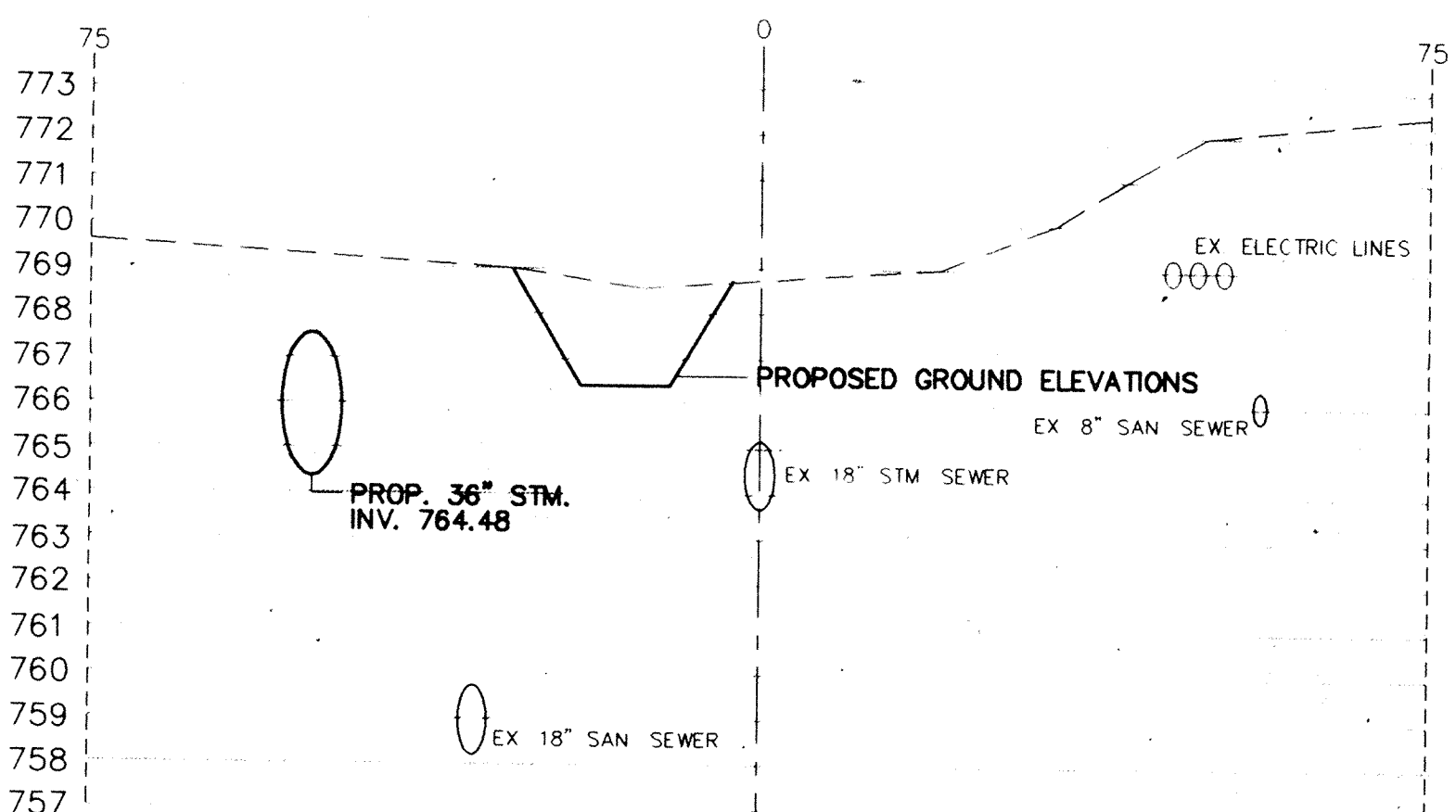
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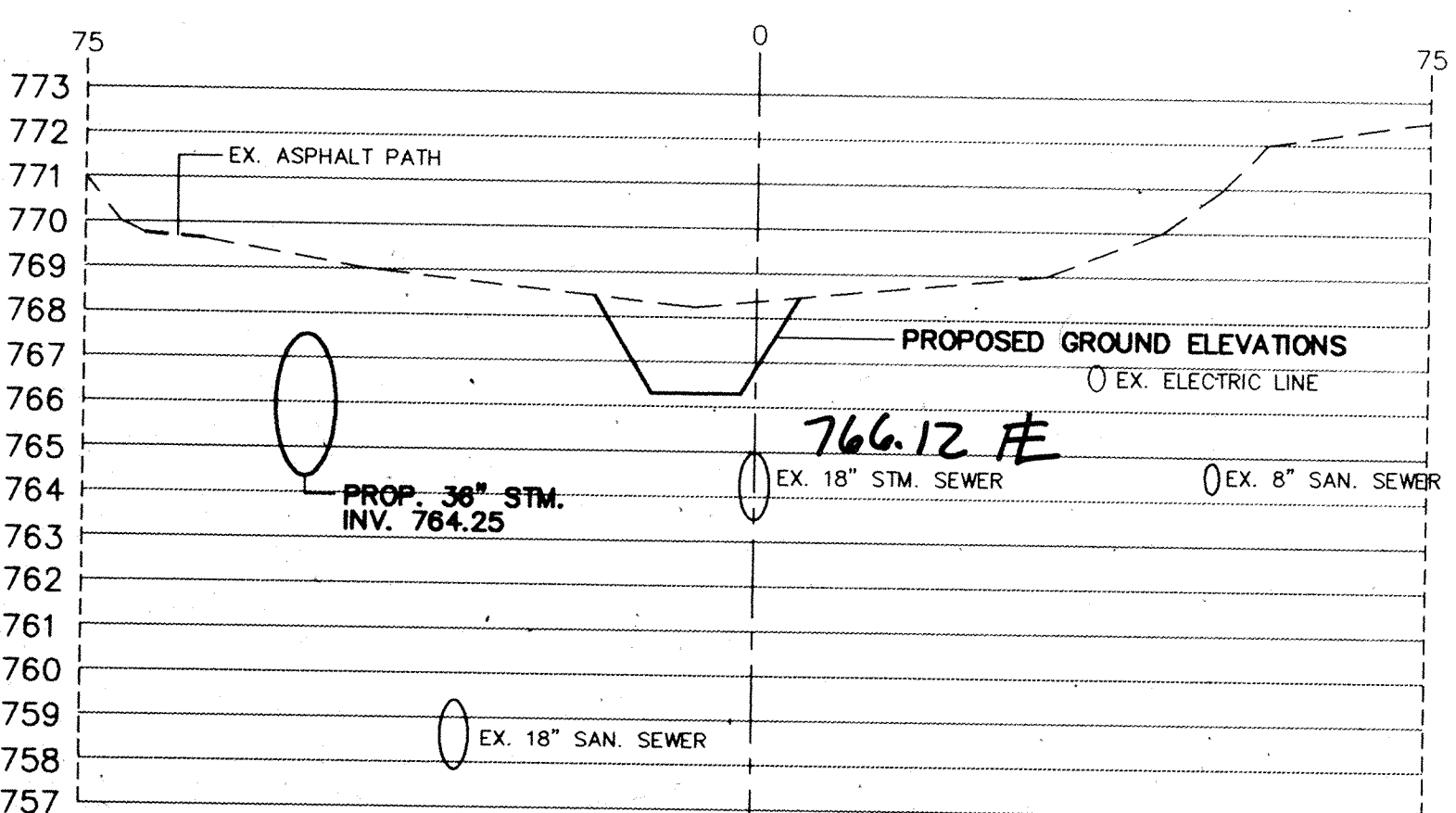
STATION 30+00
29+91



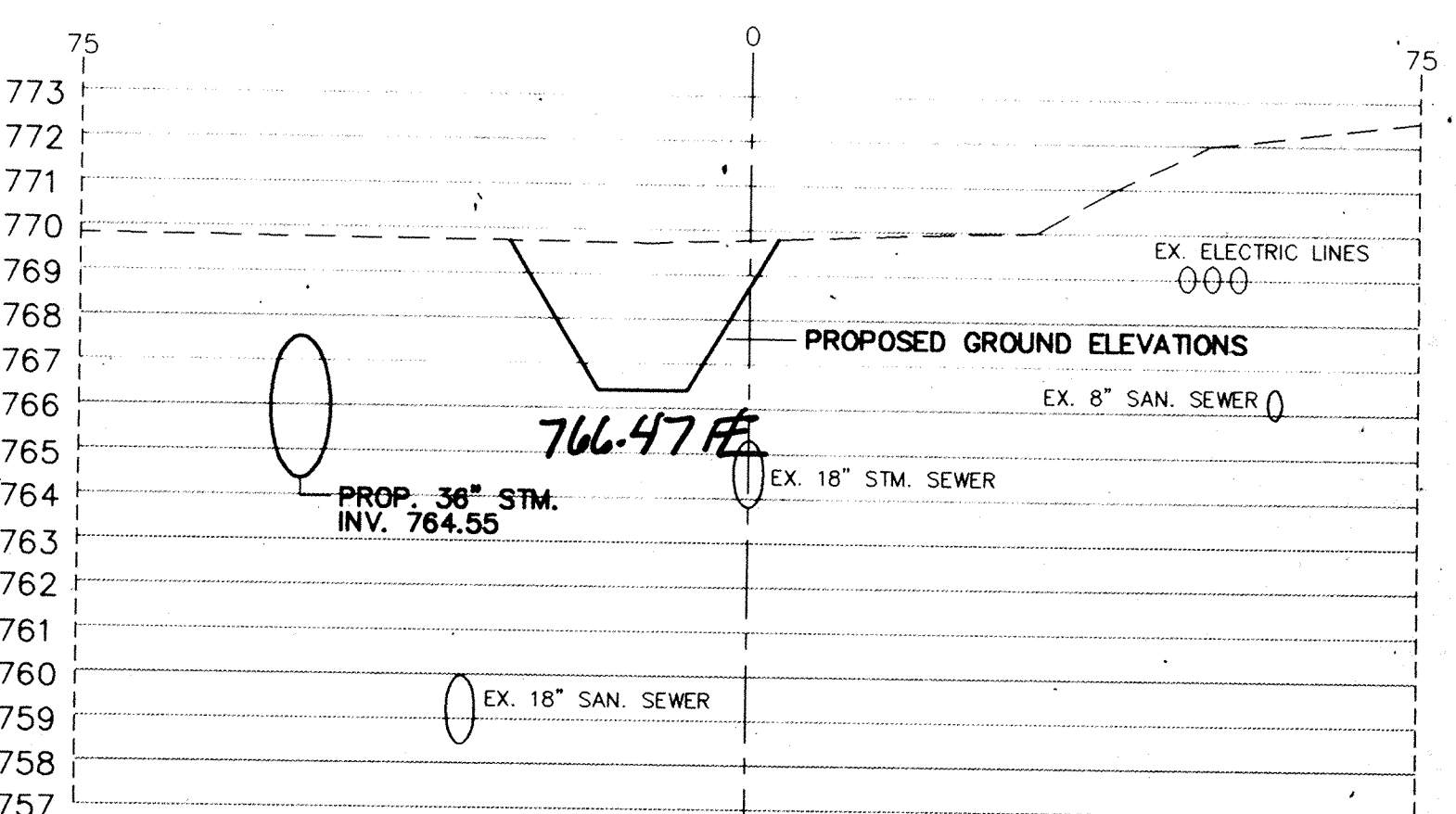
STATION 26+50



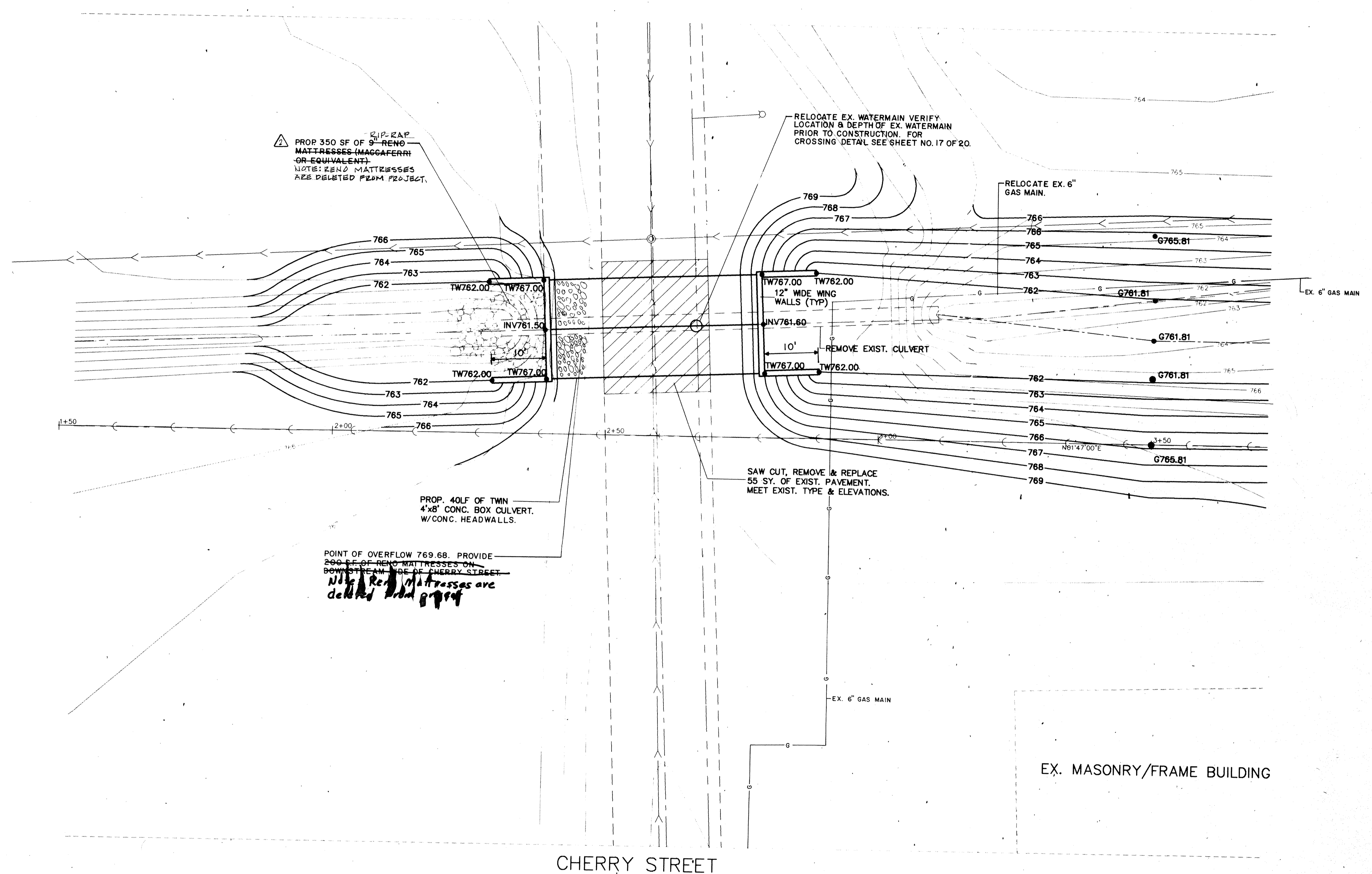
STATION 28+50



STATION 27+00



STATION 29+00



PROP 350 SF OF 9" RENO MATRESSES (MAGGAFERR) OR EQUIVALENT. NOTE: RENO MATRESSES ARE DELETED FROM PROJECT.

RELOCATE EX. WATERMAIN VERIFY LOCATION & DEPTH OF EX. WATERMAIN PRIOR TO CONSTRUCTION. FOR CROSSING DETAIL SEE SHEET NO. 17 OF 20.

RELOCATE EX. 6" GAS MAIN.

TW767.00 TW762.00
12" WIDE WING WALLS (TYP)

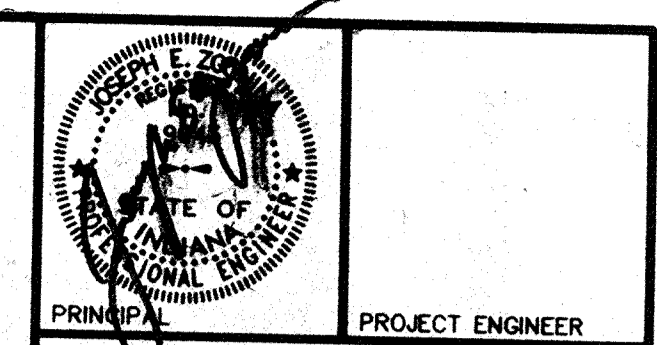
10' REMOVE EXIST. CULVERT

TW767.00 TW762.00

SAW CUT, REMOVE & REPLACE 55 SY. OF EXIST. PAVEMENT. MEET EXIST. TYPE & ELEVATIONS.

PROP. 40LF OF TWIN 4x8' CONC. BOX CULVERT. W/CONC. HEADWALLS.

POINT OF OVERFLOW 769.68. PROVIDE 200 SF OF RENO MATRESSES ON DOWNSTREAM SIDE OF CHERRY STREET. *Note: RENO Matresses are deleted from project*



PRINCIPAL CERTIFIED BY PROJECT ENGINEER

PRINCIPAL

PROJECT ENGINEER CERTIFIED BY

PROJECT DESIGNER

REVISIONS		
MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-18-93	OFFICE REVIEW
△	12-21-93	REVISED DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

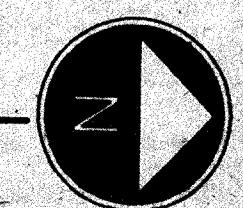
marchris/moore associates of indiana consulting engineers
9245 North Meridian Street Suite 105 Indianapolis, In 46260-1812 (317) 843-2520 FAX 848-2765

FILED
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
CHERRY STREET

DATE	9-2-93	SHEET NO.
SCALE	1"=10'	14 of 20
JOB NO.	93-011	
DRAWN BY	S.WEBER	

CHERRY STREET





PRINCIPAL PROJECT ENGINEER

CERTIFIED BY

PRINCIPAL

PROJECT ENGINEER

CERTIFIED BY

PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	11-15-93	OFFICE REVIEW
△	12-27-97	RECORD DRAWINGS

**NOBLESVILLE
HIGH SCHOOL
OFF-SITE**

ELWOOD WILSON DRAINAGE EASEMENT
IMPROVEMENTS - CHERRY STREET TO
MONUMENT STREET
NOBLESVILLE, INDIANA

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of indiana**

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Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

FILED

FEB 19 1997

OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:

CONNER STREET

DATE 9-2-93

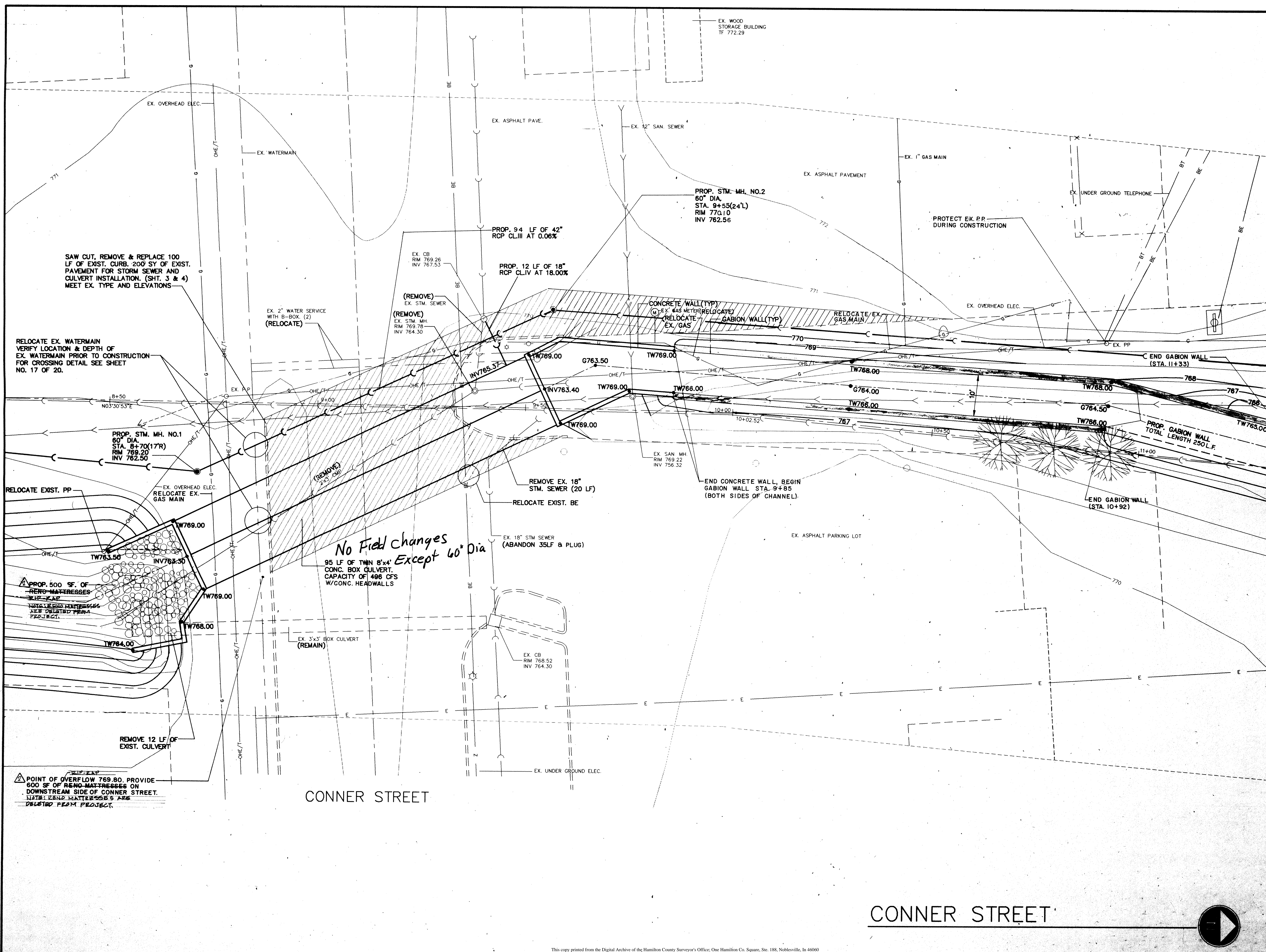
SHEET NO.

SCALE 1"=10'

15 of 20

JOB NO. 93-011

DRAWN BY S.WEBER



SAW CUT, REMOVE & REPLACE 100 LF OF EXIST. CURB, 200 SY OF EXIST. PAVEMENT FOR STORM SEWER AND CULVERT INSTALLATION. (SHT. 3 & 4) MEET EX. TYPE AND ELEVATIONS

RELOCATE EX. WATERMAIN VERIFY LOCATION & DEPTH OF EX. WATERMAIN PRIOR TO CONSTRUCTION FOR CROSSING DETAIL SEE SHEET NO. 17 OF 20.

PROP. STM. MH. NO.1
80" DIA.
STA. 8+70(17R)
RIM 769.20
INV 762.50

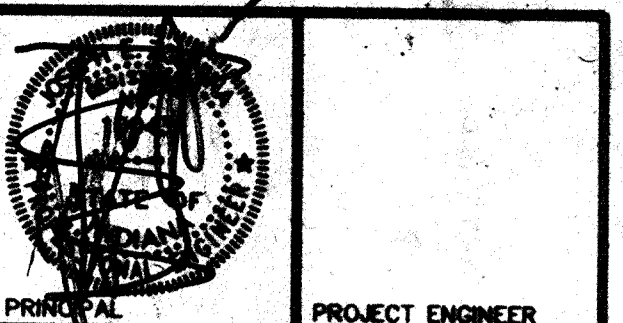
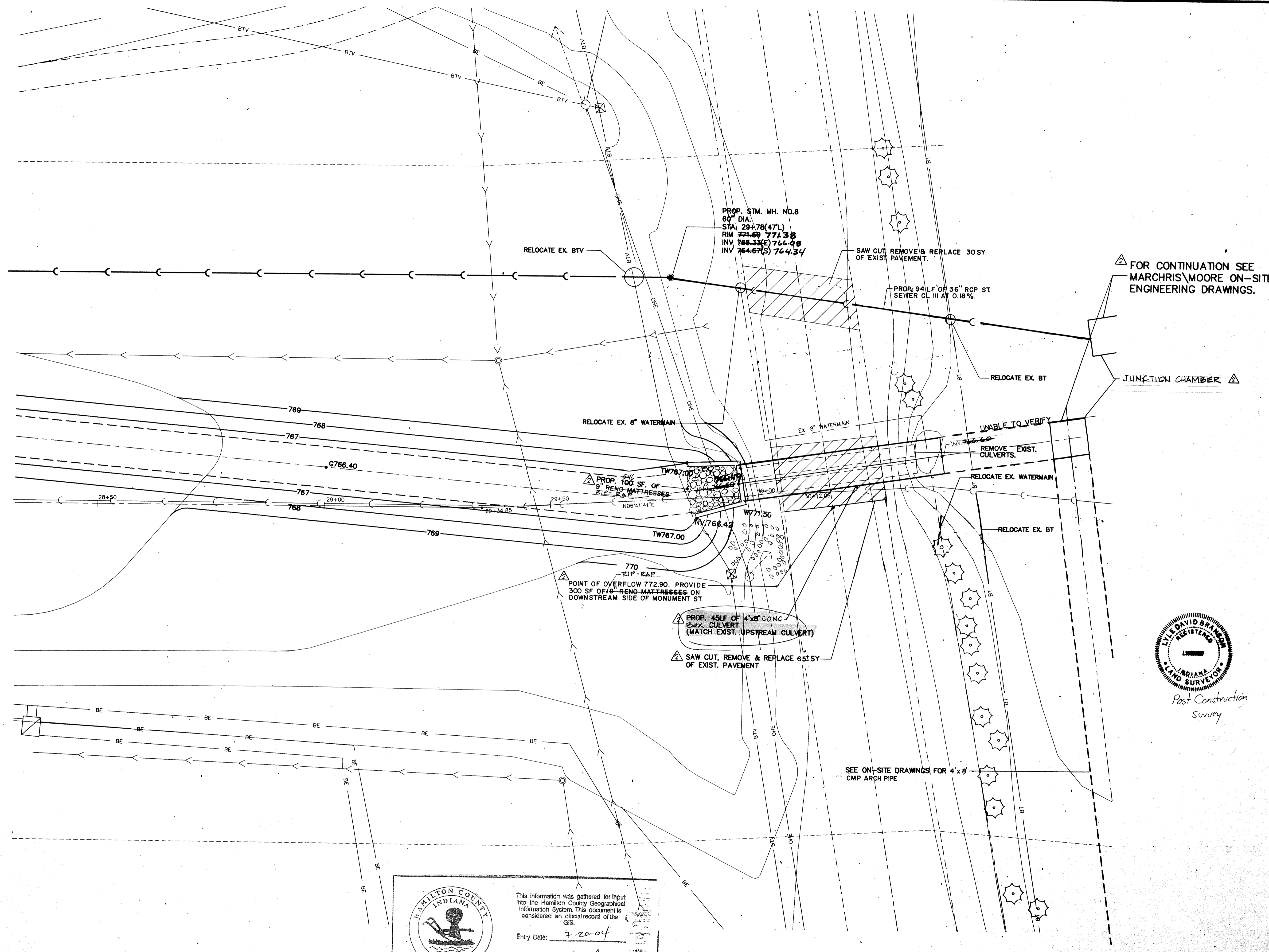
PROP. 94 LF OF 42" RCP CL.III AT 0.06%

PROP. 12 LF OF 18" RCP CL.IV AT 18.00%

PROP. STM. MH. NO.2
60" DIA.
STA. 9+55(24'L)
RIM 770.10
INV 762.56

No Field changes Except 60" Dia
95 LF OF TWIN 8"x4" CONC. BOX CULVERT. CAPACITY OF 498 CFS W/CONC. HEADWALLS

POINT OF OVERFLOW 769.80. PROVIDE 600 SF OF BEND-MATTRESSES ON DOWNSTREAM SIDE OF CONNER STREET. NOTE: BEND-MATTRESSES ARE DELETED FROM PROJECT.



PRINCIPAL PROJECT ENGINEER
CERTIFIED BY

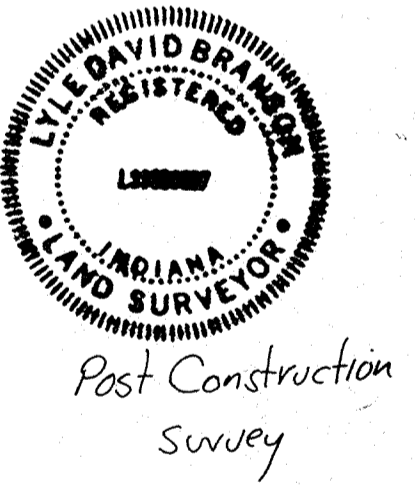
PRINCIPAL PROJECT ENGINEER
CERTIFIED BY

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
△	1-28-97	RECORD DRAWINGS

NOBLESVILLE HIGH SCHOOL OFF-SITE
ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

marchis/moore associates of indiana consulting engineers
9245 North Meridian Street Suite 105 Indianapolis, In 46260-1812 (317) 843-2520 FAX 848-2765



POST CONSTRUCTION SURVEY

FILED

FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE:
MONUMENT STREET

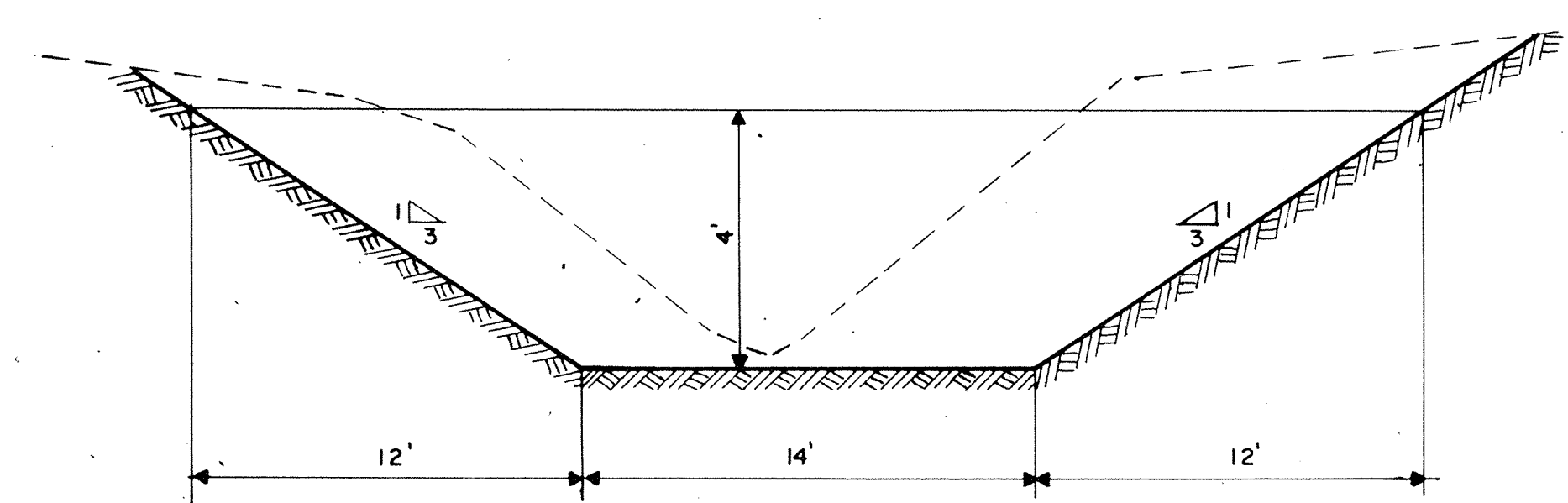
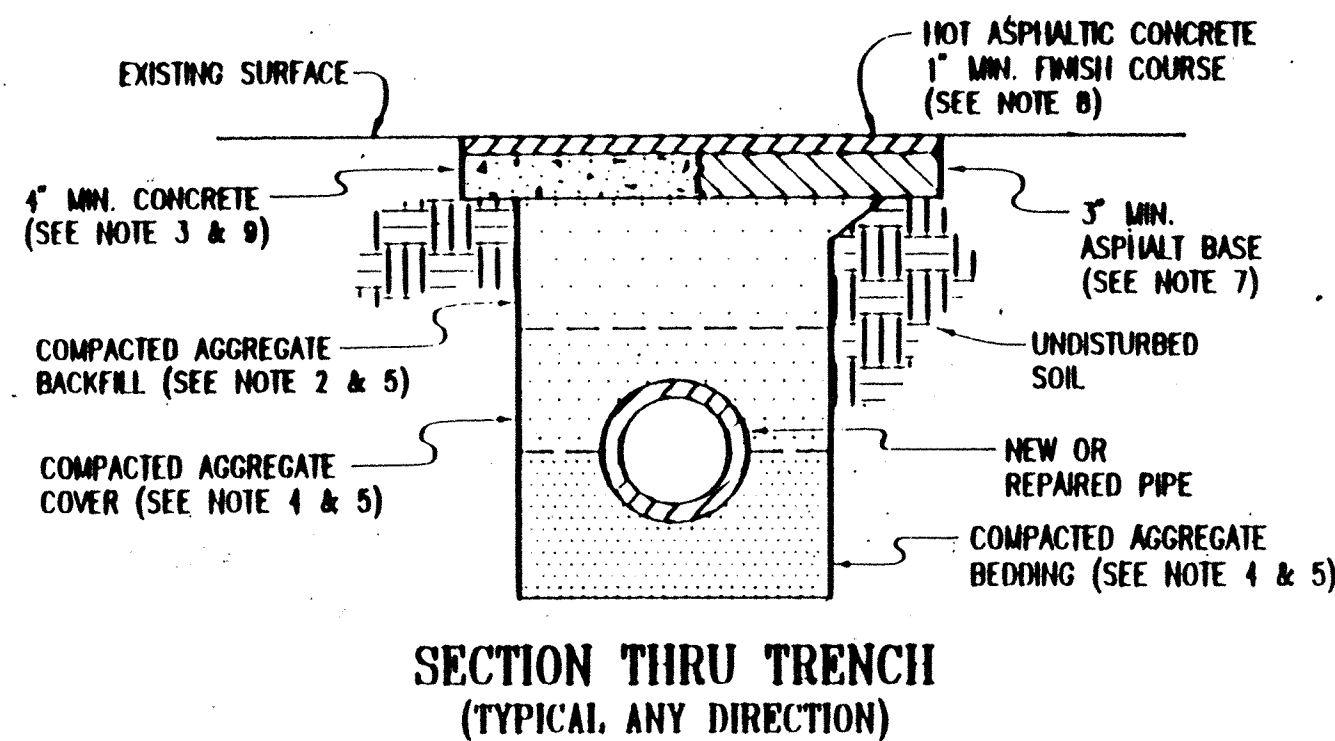
DATE 9-2-93 SHEET NO. 16 of 20
SCALE 1"=10'
JOB NO. 93-011
DRAWN BY S.WEBER

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: 7-20-04
Entered by: [Signature]

MONUMENT STREET

STANDARD STREET REPAIR SPECIFICATIONS

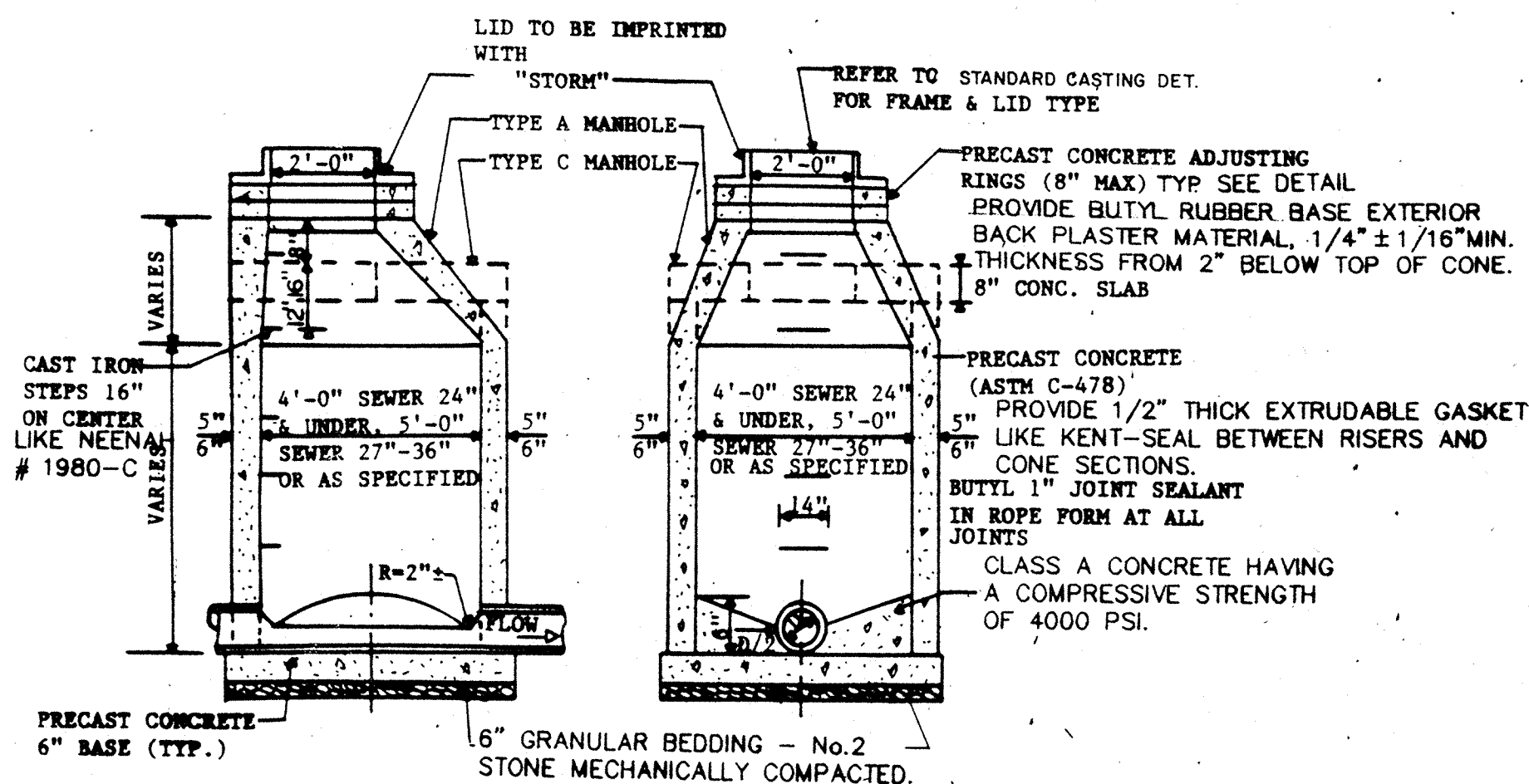
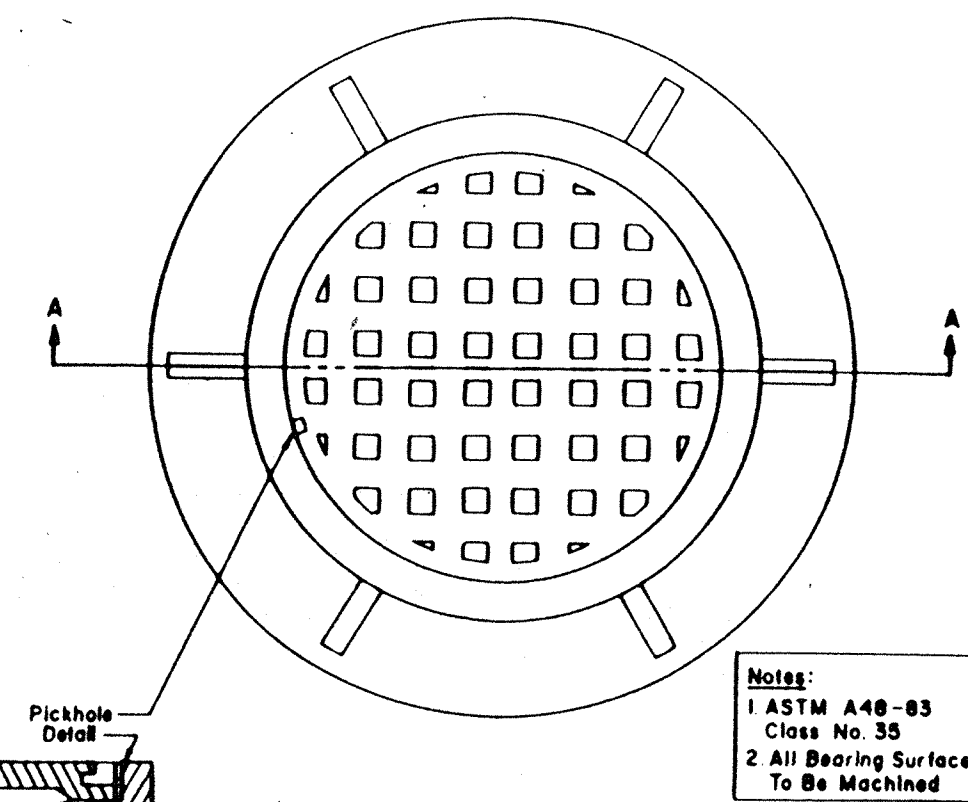


TYPICAL DITCH CROSS SECTIONS
CHERRY STREET TO CONNER STREET

- GENERAL SPECIFICATIONS:**
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH INDIANA STATE HIGHWAY STANDARD SPECIFICATIONS WHERE APPLICABLE.
 - BACKFILL AGGREGATE TO BE CLEAN GRAVEL OR STONE OR APPROVED EQUIV.
 - CONCRETE PAD SHALL BE AT LEAST 6 INCHES THICK FOR STREETS OTHER THAN RESIDENTIAL AND AIRPORT PAVEMENTS WHERE PAVEMENT IS CONCRETE.
 - AGGREGATE BEDDING AND COVER TO BE DETERMINED BY UTILITY.
 - COMPACT ALL AGGREGATE MATERIAL IN 4 INCH LAYERS TO 95 PERCENT STANDARD PROCTOR DENSITY.
 - ALL UNDER MATERIAL TO BE REMOVED FROM SITE.
 - ASPHALT BASE MUST EQUAL OR EXCEED THE ASPHALT PAVEMENT THICKNESS.
 - NOT REQUIRED ON CONCRETE THAT HAS NOT BEEN RESURFACED.
 - CONCRETE THICKNESS TO EQUAL OR EXCEED PRESENT THICKNESS.
 - IF PERMANENT PAVING MATERIALS ARE READY AVAILABLE, RESURFACE ALL OPENINGS WITHIN 30 DAYS OF REPAIR.
 - IF PERMANENT MATERIALS ARE NOT AVAILABLE, TEMPORARILY SEAL ALL OPENINGS WITHIN 3 DAYS AFTER WORK IS COMPLETED, AND WHEN PAVING MATERIALS ARE READY AVAILABLE, RESURFACE PERMANENTLY WITHIN 30 DAYS.

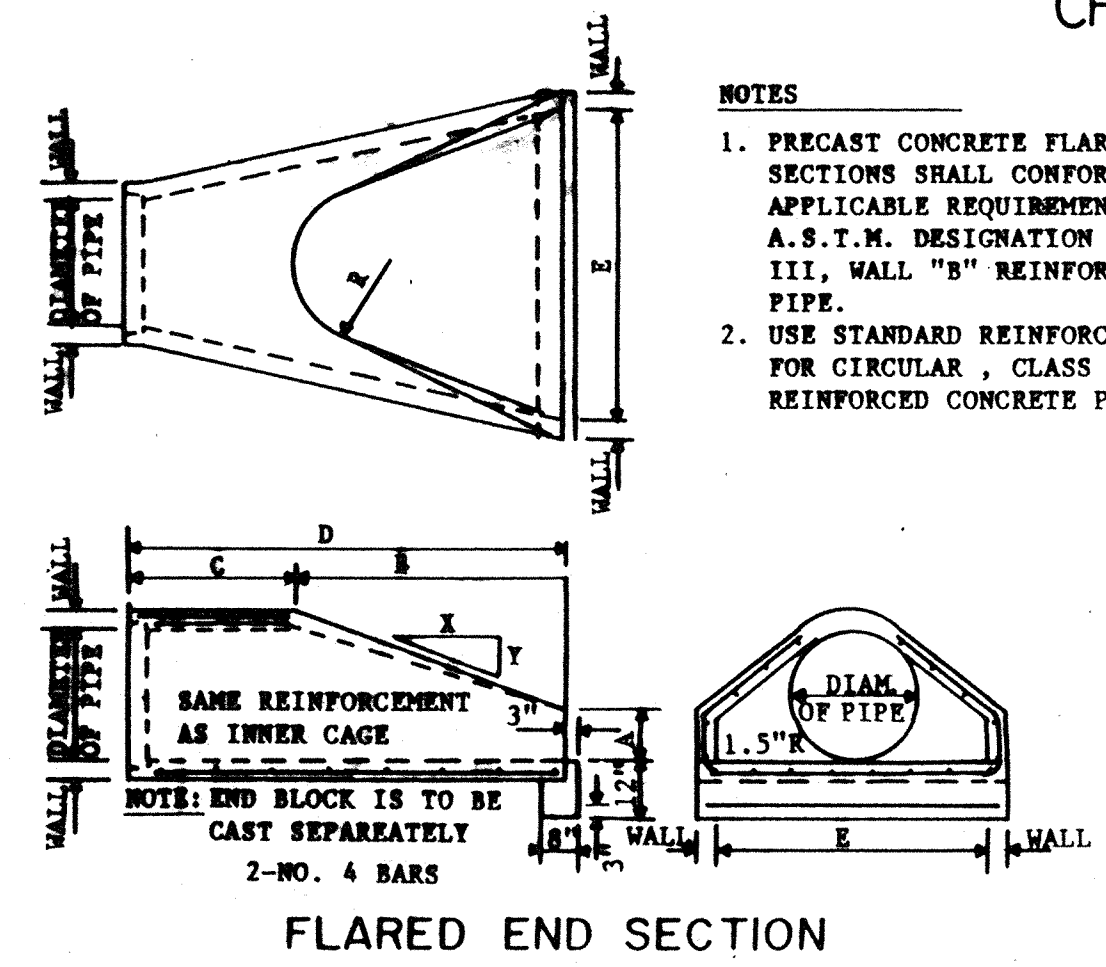
- NOTES**
- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF A.S.T.M. DESIGNATION C-76, CLASS III, WALL "B" REINFORCED CONCRETE PIPE.
 - USE STANDARD REINFORCEMENT FOR CIRCULAR, CLASS III, WALL "B" REINFORCED CONCRETE PIPE.

DIVISION 'D' - CONSTRUCTION STANDARDS
SECTION 2 - CASTINGS
2.1 STANDARD CASTING DETAIL
TYPE 'A'



MANHOLE TYPES A & C

NOTE: USE TYPE "A" - M.H. NO. 1, 2, 4
USE TYPE "C" - M.H. NO. 3, 5, 6

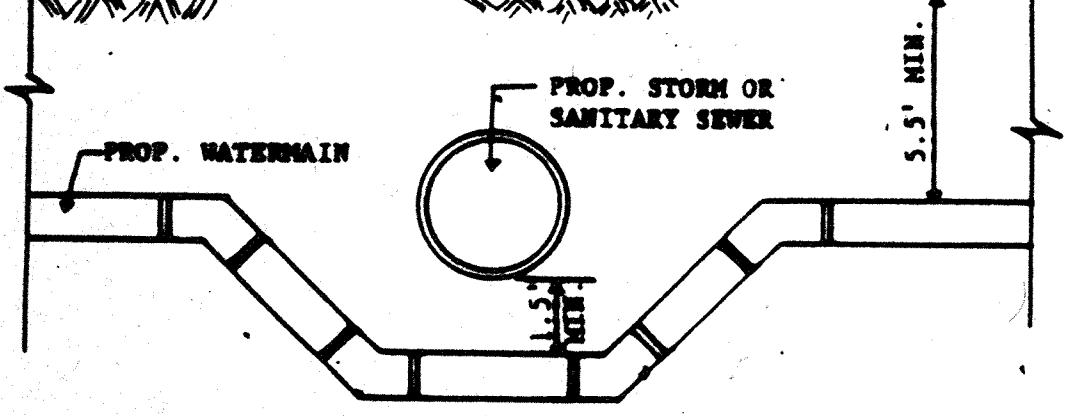


FLARED END SECTION

FLARED END SECTION - DIMENSION CHART

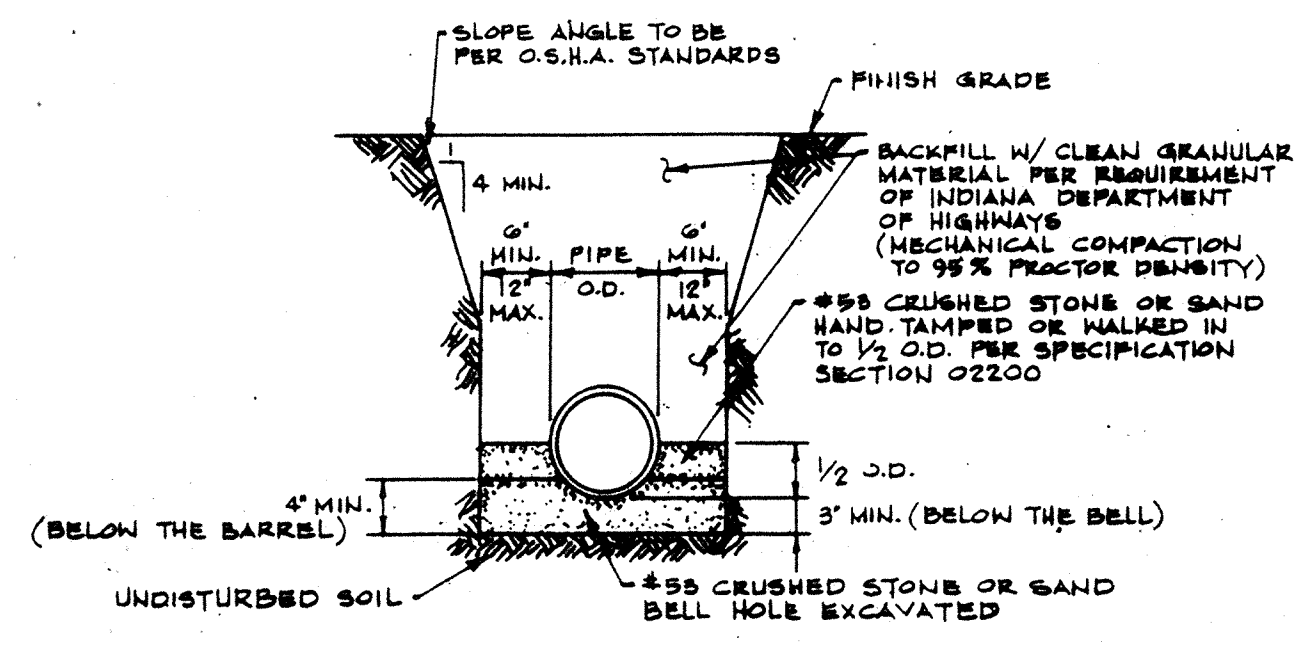
PIPE DIAM.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	4'0"	4'7/8"	6'7/8"	2'0"	9"	3:1
15"	2 1/4"	6"	2'3"	3'10"	6'1"	2'6"	11"	3:1
18"	2 1/2"	9"	2'3"	3'10"	6'1"	3'0"	12"	3:1
21"	2 3/4"	9"	2'11"	3'2"	6'1"	3'6"	13"	3:1
24"	3"	9 1/2"	3'7 1/2"	2'6"	6'1 1/2"	4'0"	14"	3:1
27"	3 1/4"	10 1/2"	4'0"	2'1 1/2"	6'1 1/2"	4'6"	14 1/2"	3:1
30"	3 1/2"	1'0"	4'6"	1'7 3/4"	6'1 3/4"	5'0"	15"	3:1
33"	3 3/4"	1'1 1/2"	4'10 1/2"	3'3 1/4"	8'1 3/4"	5'6"	17 1/2"	3:1
36"	4"	1'3"	5'3"	2'10 3/4"	8'1 3/4"	6'0"	20"	3:1
42"	4 1/2"	1'9"	5'3"	2'11"	8'2"	6'6"	22"	3:1
48"	5"	2'0"	6'0"	2'2"	8'2"	7'0"	22"	3:1
54"	5 1/2"	2'3"	5'5"	2'11"	8'4"	7'6"	24"	2.4:1

NOTE: CROSSINGS OF BURIED SEWERS AND WATER LINES SHOULD BE AVOIDED AS MUCH AS POSSIBLE. HOWEVER, WHERE CROSSINGS ARE NECESSARY, A MINIMUM OF 18" VERTICAL CLEARANCE MUST BE MAINTAINED (MEASURED FROM THE BOTTOM OF THE UPPER PIPE TO THE TOP OF THE LOWER PIPE), PREFERABLY WITH THE WATER MAIN ABOVE THE SEWER.

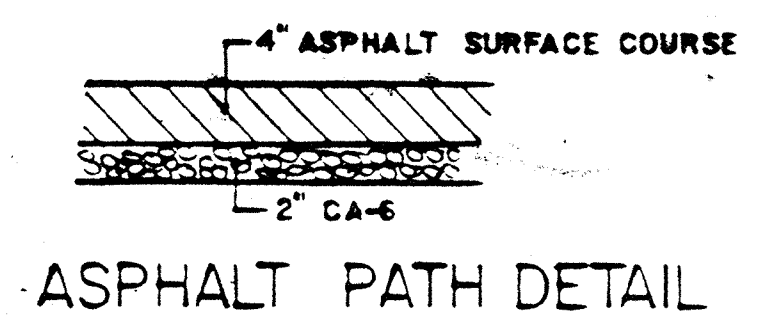


CROSSING DETAIL

NOTE: USE MINIMUM OF 20 L.F. OF WATER MAIN PRESSURE PIPES (MIN. OF 10' ON EACH SIDE OF THE CROSSING). FOR GRAVITY SANITARY SEWER AND STORM SEWER USE P.V.C. SDR 26 CONFORMING TO A.S.T.M. D-2241, WITH COMPRESSION FITTINGS. PRESSURE TEST TO ASSURE WATER TIGHTNESS PRIOR TO BACK FILLING.



PIPE BEDDING DETAIL FOR CONC. PIPE (NTS)



ASPHALT PATH DETAIL

PROJECT GENERAL REQUIREMENTS

- ALL STORM SEWER AND SANITARY SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE CITY OF NOBLESVILLE AND NOBLESVILLE PUBLIC UTILITIES "SPECIFICATIONS AND STANDARDS FOR SANITARY SEWER AND STORM DRAINAGE WORKS".
- ALL CONSTRUCTION WITHIN THE CITY OF NOBLESVILLE STREET RIGHT-OF-WAY TO BE DONE IN ACCORDANCE WITH CITY STREET AND RIGHT-OF-WAY DEPARTMENTS.
- ALL CONSTRUCTION DONE OUTSIDE OF STREET RIGHT-OF-WAY SHALL BE DONE WITHIN DEDICATED UTILITY EASEMENTS.
- ALL SEWERS, CULVERTS, DITCHES, PAVEMENTS, UTILITIES, YARDS, ETC. DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY APPROPRIATE CITY DEPARTMENTS 24 HOURS IN ADVANCE OF STARTING ANY CONSTRUCTION TO MAKE ARRANGEMENTS FOR INSPECTION AND SHUT DOWNS.
- WHENEVER WATER MAIN CROSSES OVER A SANITARY SEWER AND STORM SEWERS, THE VERTICAL SEPARATION SHALL BE AT LEAST 18". WHEN THE SEPARATION CAN NOT BE MET, THE SEWER SHALL BE CONSTRUCTED WITH SLIP-ON OR MECHANICAL JOINT DUCTILE IRON PIPE, SDR 26 PVC PER ASTM D-2241, FOR A DISTANCE OF 10' ON EACH SIDE OF THE WATER MAIN. ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
- EXISTING PARKING LOT PAVEMENT DISTURBED DURING THE COURSE OF CONSTRUCTION OF THE DESIGNATED IMPROVEMENTS SHALL BE REPAIRED ACCORDING TO THE DETAILS AS SHOWN ON THE ENGINEERING DRAWINGS.
- ALL PAVED AREAS SHALL BE COMPACTED TO 98% STANDARD LABORATORY DENSITY.
- BEDDING FOR STORM SEWERS TO BE CLASS "B" FOR RIGID CONDUITS PER DETAILS.
- STORM MANHOLES TO BE 60" DIA. WITH FLAT TOP LIDS, WITH NEENAH R-1772-CVH OR E, OR JORDAN 1875 ZVH FRAME AND SOLID LID.
- SPECIAL BACKFILL TO BE PER REFERENCED CITY OF NOBLESVILLE SPECIFICATION AND DETAILS.
- VERIFY LOCATION, SIZE AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. NOTIFY ENGINEER OF ANY CONFLICTS.
- EXERCISE CAUTION TO PREVENT DAMAGE TO EXISTING STRUCTURES AND UTILITIES.
- ALL PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY, DETERMINE EXACT LENGTHS REQUIRED FOR ACTUAL INSTALLATION.
- MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENTS OF THE MUNICIPALITY AND THE INDIANA DEPARTMENT OF TRANSPORTATION.
- ALL MANHOLES SHALL BE IMPRINTED "STORM".
- THE CONTRACTOR SHALL COMPLY WITH I.O.S.H.A. & O.S.H.A. 29 CFR PART 1926 SUBPART P ARTICLE 1926.650 EXCAVATIONS AND ALL OTHER I.O.S.H.A. & O.S.H.A. REGULATIONS GOVERNING WORK OF THIS SECTION.

UTILITY INFORMATION

CONTACT EACH OF THE FOLLOWING UTILITIES FOUR (4) WEEKS PRIOR TO COMMENCING CONSTRUCTION WORK TO COORDINATE WORK:

- PSI ENERGY ATTN: RICK MOTESITT P.O. BOX 312 NOBLESVILLE, IN 46060 PHONE: (317) 776-5344	- INDIANA GAS ATTN: DON P.O. BOX NOBLESVILLE, IN 46060 PHONE: (317) 776-5344
- INDIANA CITIES WATER CORP. ATTN: LARRY SIEGLER P.O. BOX 1987 NOBLESVILLE, IN 46060 PHONE: (317) 773-2861	

GABIONS (8x10 MESH)

LETTER CODE	LENGTH (ft)	WIDTH (ft)	HEIGHT (ft)	NUMBER OF DIAPHRAGMS	CAPACITY (cu yd)	COLOR CODE
A	6'	3'	3'	1	2.0	BLUE
B	9'	3'	3'	2	3.0	WHITE
C	12'	3'	3'	3	4.0	BLACK
D	6'	3'	1'6"	1	1.0	RED
E	9'	3'	1'6"	2	1.5	GREEN
F	12'	3'	1'6"	3	2.0	YELLOW
G	6'	3'	1'	1	0.66	BLUE-RED
H	9'	3'	1'	2	1.0	BLUE-YELLOW
I	12'	3'	1'	3	1.33	BLUE-GREEN


Also available in P.V.C. coated wire.
Tolerances of a 5% of the width, height and length of the gabion shall be permitted.

RENO MATTRESSES (6x8 MESH)

LETTER CODE	LENGTH (ft)	WIDTH (ft)	THICKNESS (ft)	NO. OF CELLS	AREA (sq ft)	CAPACITY (cu yd)	COLOR CODE
Q	9'	6'	6"	3	6	1	WHITE-YELLOW
R	12'	6'	6"	4	8	1.33	WHITE-GREEN
T	9'	6'	9"	3	6	1.5	RED-YELLOW
U	12'	6'	9"	4	8	2	RED-GREEN

Also available in P.V.C. coated wire.
Tolerances of a 5% of the width and length and 10% of the height shall be permitted.

MACCAFERRI GABIONS & RENO MATTRESSES
GABIONS & RENO MATTRESSES ARE DELETED FROM THE PROJECT.



PROJECT ENGINEER
CERTIFIED BY
PRINCIPAL

PROJECT ENGINEER
CERTIFIED BY
PROJECT DESIGNER

REVISIONS

MARK	DATE	DESCRIPTION
	9-1-93	PER OFFICE REVIEW
	11-15-93	OFFICE REVIEW
Δ	12-27	RECORD DRAWINGS

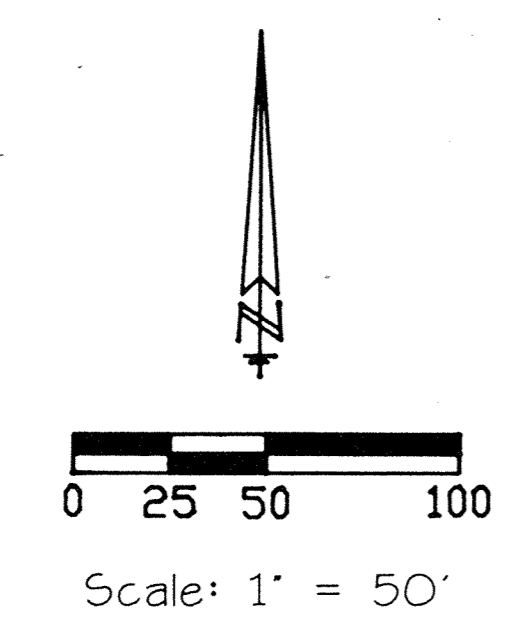
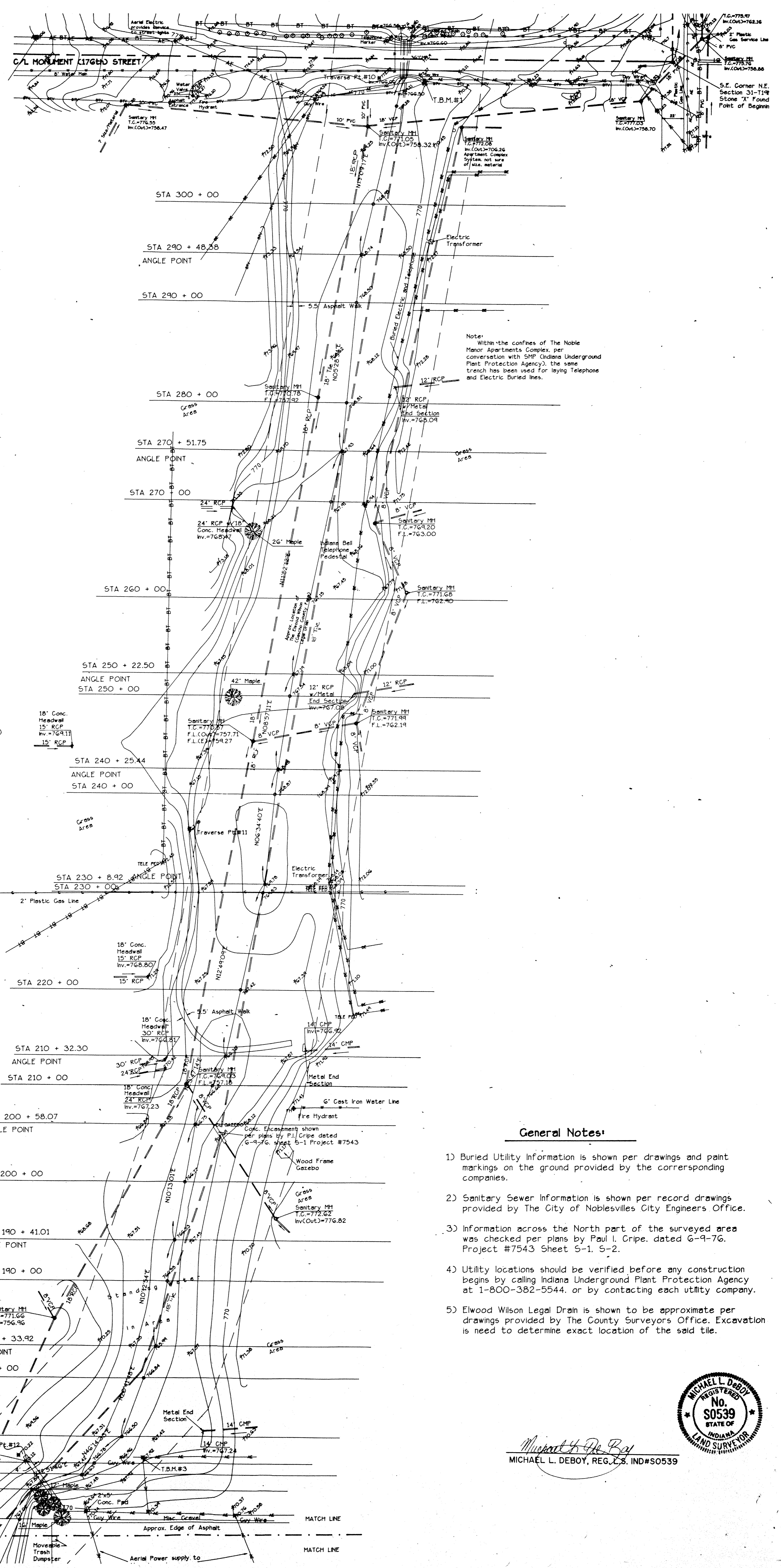
NOBLESVILLE HIGH SCHOOL OFF-SITE

ELWOOD WILSON DRAINAGE EASEMENT IMPROVEMENTS - CHERRY STREET TO MONUMENT STREET
NOBLESVILLE, INDIANA

marchris/moore associates of indiana
consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

TITLE:
DETAILS & PROJECT SPECIFICATIONS

DATE: 7-22-93 SHEET NO. 17 of 20
SCALE: NO SCALE
JOB NO. 93-011
DRAWN BY: S.WEBER



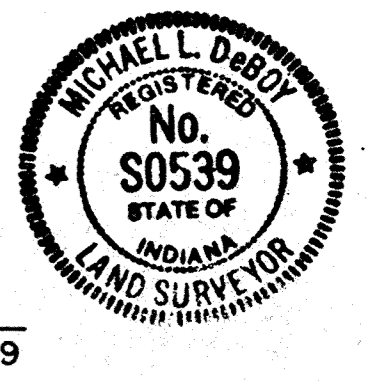
- Legend:**
- = Aerial Electric/Telephone Line
 - = Light Pole
 - = Power Pole
 - ▭ = Concrete Surface
 - ⊙ = Fire Hydrant
 - = Existing Fence Line (See Label for Type)
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 - RCP = Reinforced Concrete Pipe
 - GV = Gas Valve
 - WV = Water Valve
 - MH = Manhole
 - IPS = 5/8" Rebar w/Cap stamped "Weihe Engr. L.S. 0012" Set
 - ☼ = Denotes various landscaping (Unless noted)

Note:
Within the confines of The Noble Manor Apartments Complex, per conversation with SMP (Indiana Underground Plant Protection Agency), the same trench has been used for laying Telephone and Electric Buried Lines.

- Benchmark Information**
- T.B.M.#1 Large Nail Set in East side of a Power Pole located on the South side of Monument Street 245' +/- West of Cumberland Road
Elevation: ~~771.64~~ **771.79**
 - T.B.M.#2 Large Nail Set in 42" Hackberry Tree located 600' +/- South of Monument Street within limits of this survey
Elevation: ~~772.15~~ **770.23**
 - T.B.M.#3 PK Nail Set in Power Pole located 150' North of The Dollar General Store (shown on survey)
Elevation: ~~771.47~~ **769.57**
 - T.B.M.#4 Southeast Anchor Bolt on Self Service Storage Metal/Plastic Sign located 200' +/- North of State Road (38/32)(Corner Street)
Elevation: ~~771.15~~ **772.23**

REVISED BY ENGINEER, SEPT. 1994
(FOR OFFSIGHT SEWER ONLY)

- General Notes:**
- 1) Buried Utility Information is shown per drawings and paint markings on the ground provided by the corresponding companies.
 - 2) Sanitary Sewer Information is shown per record drawings provided by The City of Noblesville's City Engineers Office.
 - 3) Information across the North part of the surveyed area was checked per plans by Paul I. Cripe, dated 6-9-76. Project #7543 Sheet 5-1, 5-2.
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 - 5) Elwood Wilson Legal Drain is shown to be approximate per drawings provided by The County Surveyors Office. Excavation is needed to determine exact location of the said tile.



Michael L. Deboy
MICHAEL L. DEBOY, REG. L.S. IND#S0539

FILED
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

Prepared For:
Noblesville School Corp.

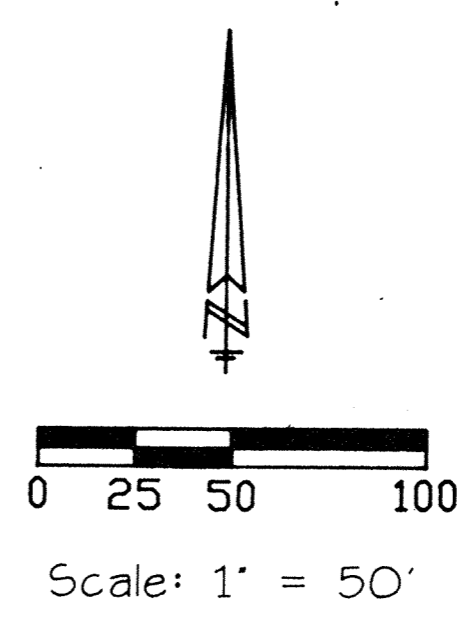
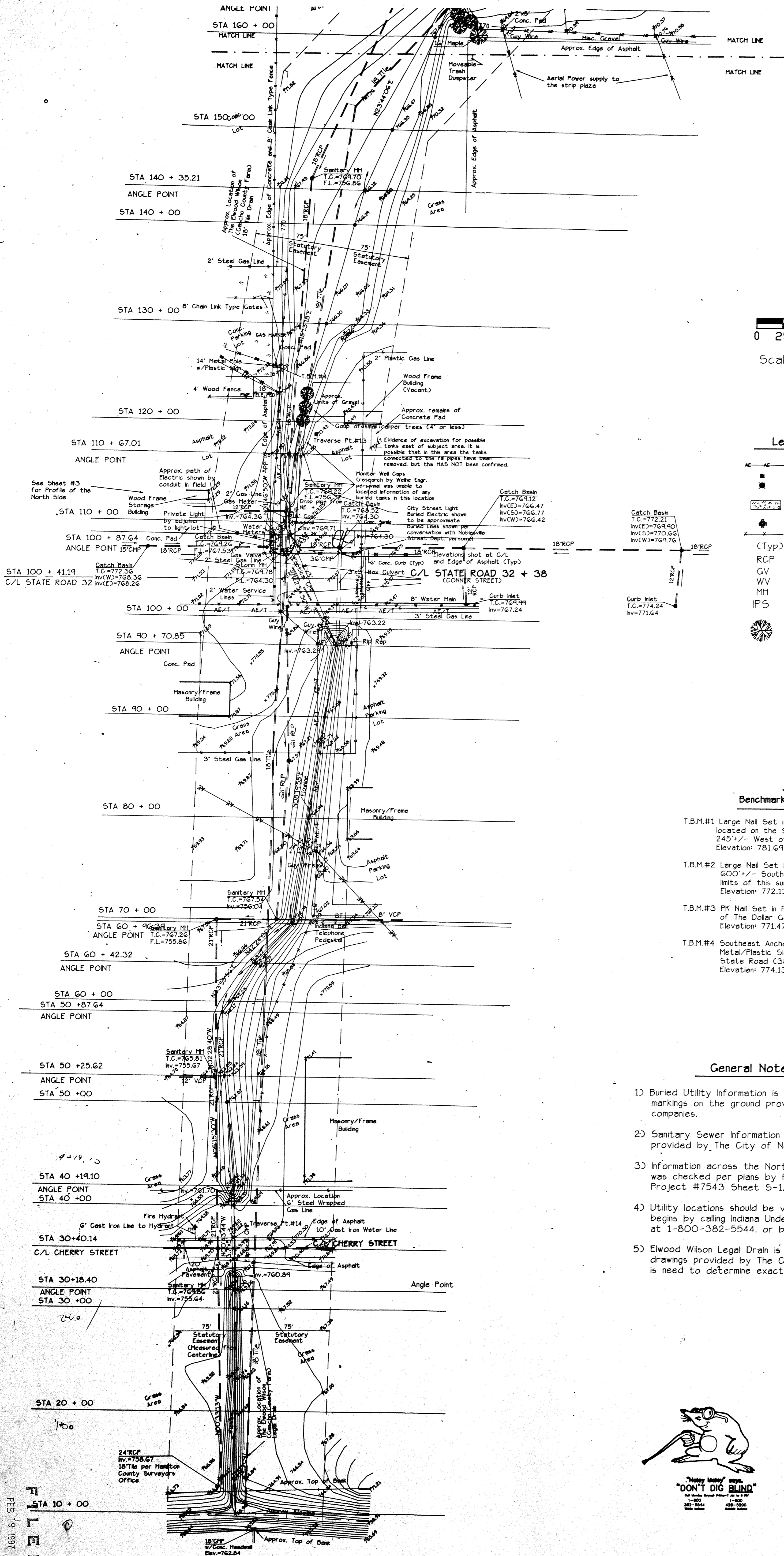
REVISIONS	DATE	BY	JOB NO.
			92-128
			DRAWN BY
			M.W.
			CHECKED BY
			M.L.D.
			DATE
			2-15-97

WEIHE ENGINEERS INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

ALLAN H. WEIHE, P.E., L.S. PRESIDENT

AIA/Situation/Topographic Survey
Pt. Sec 31-T19N-R5E, Noblesville Twp., Hamilton Co., IN



- Legend:**
- = Aerial Electric/Telephone Line
 - = Light Pole
 - = Power Pole
 - = Concrete Surface
 - = Fire Hydrant
 - = Existing Fence Line (See Label for Type)
 - (Typ) = Typical
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Michael L. DeBoy
MICHAEL L. DEBOY, REG. L.S. No. 50539



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FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYORS

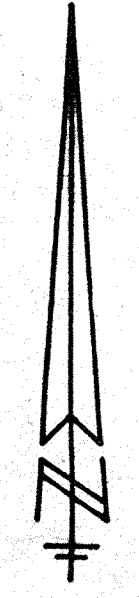
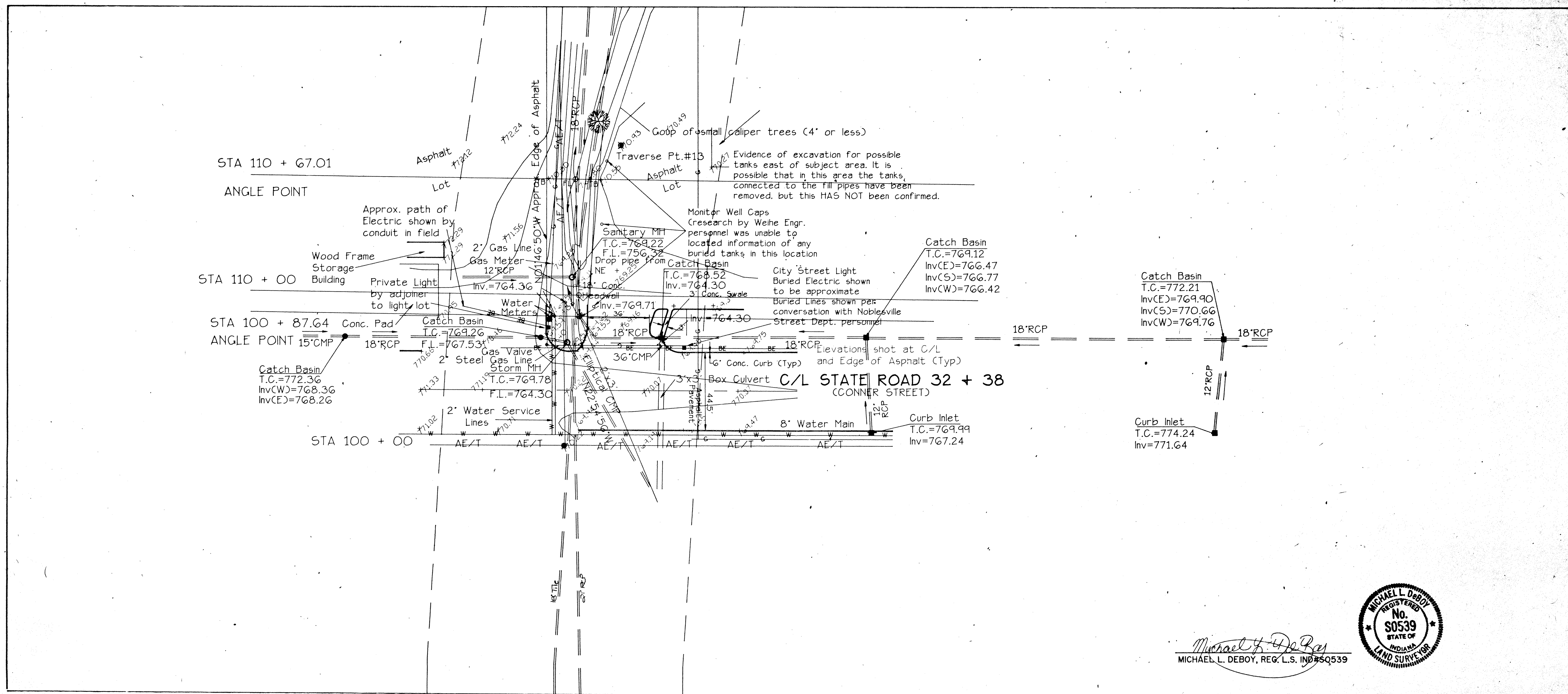
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Noblesville School Corp.
AIA/Situation/Topographic Survey
Pt. Sec 31-119N-R5E, Noblesville Twp., Hamilton Co., IN

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		M.W.	DRAWN BY
		M.L.D.	CHECKED BY
			DATE

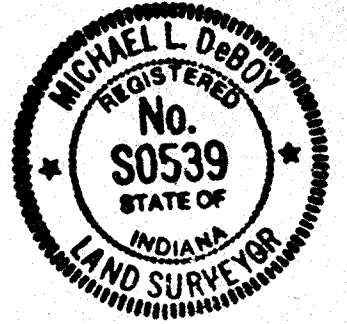
WEIHE ENGINEERS INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611

ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

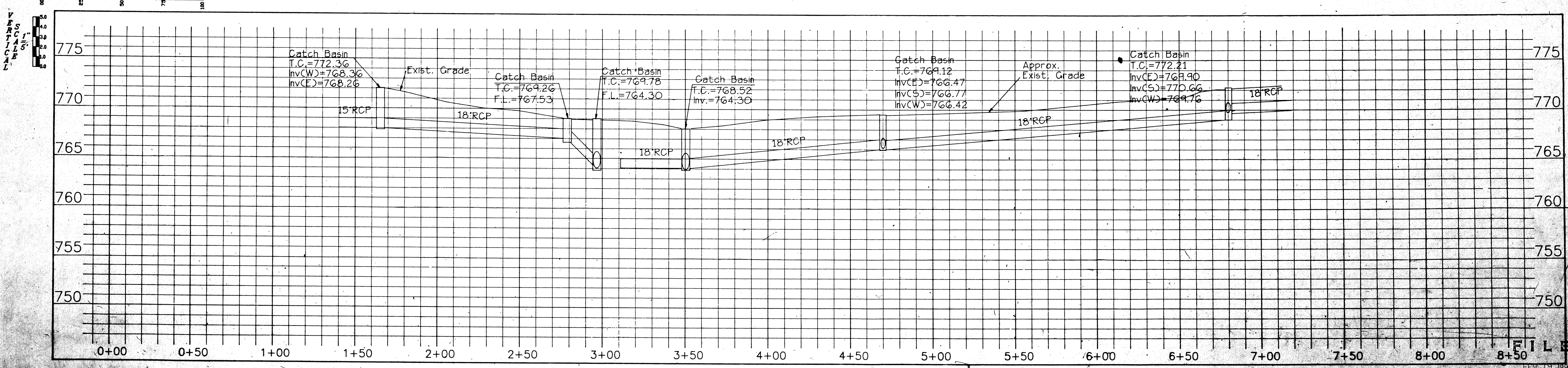
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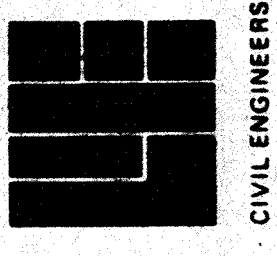
Michael L. Deboy
MICHAEL L. DEBOY, REG. L.S. IND. #5539



HORIZONTAL SCALE
1" = 30'



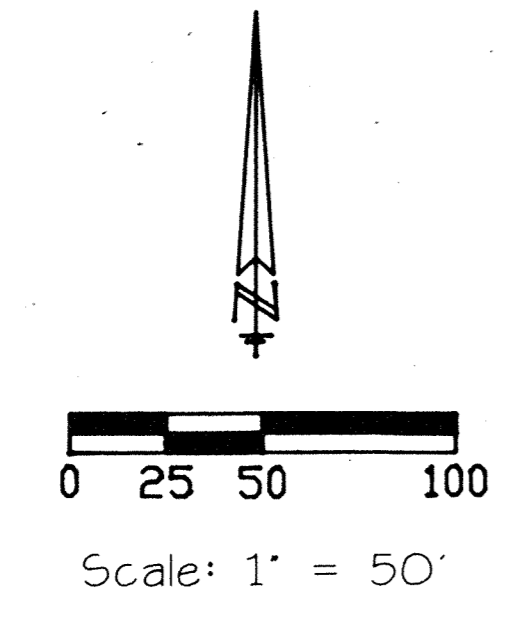
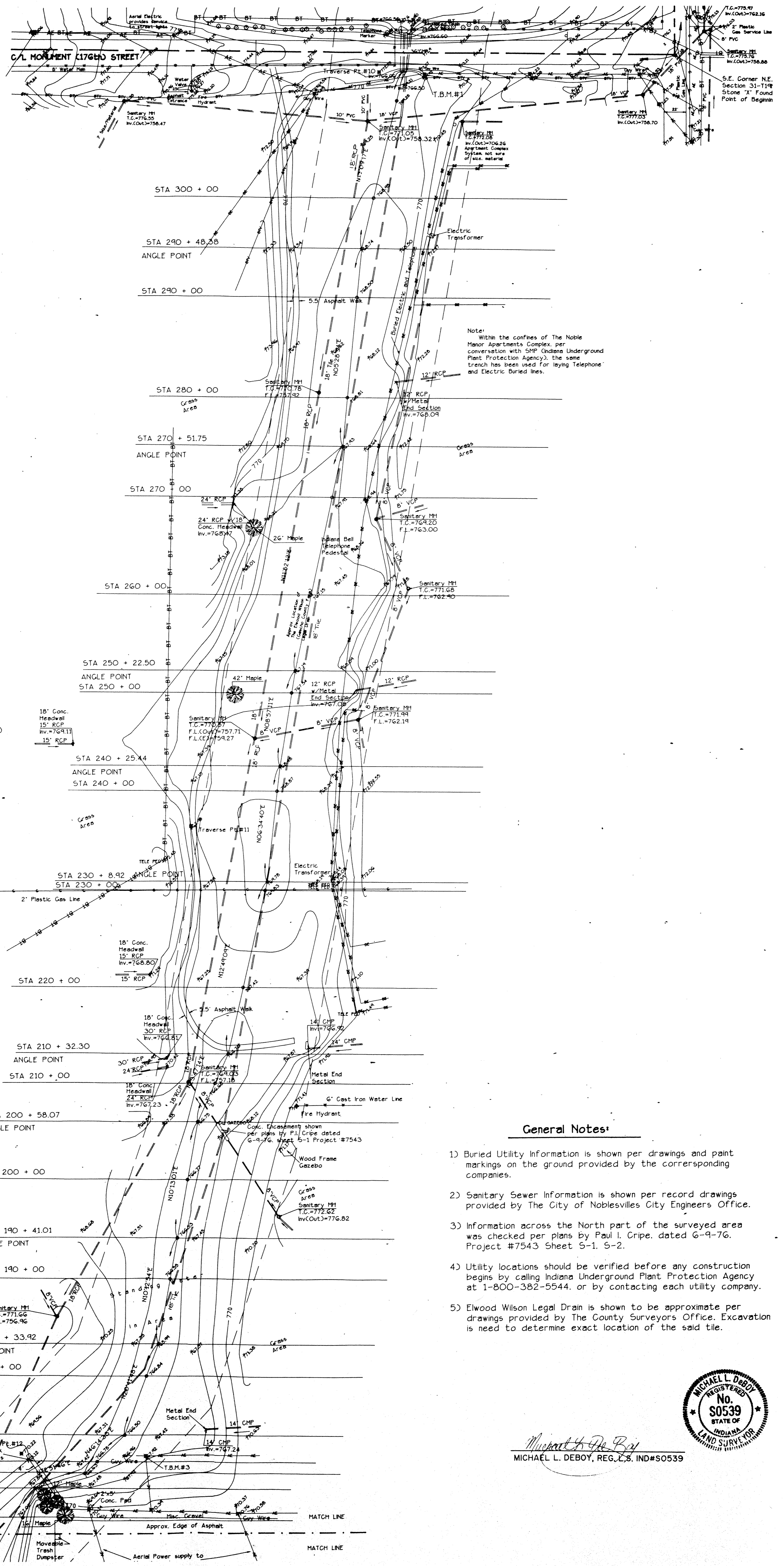
WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611
LAND PLANNERS
LAND SURVEYORS
CIVIL ENGINEERS



JOB NO.	92-1226
DRAWN BY	M.W.
CHECKED BY	N.L.D.
DATE	2-15-93
REVISIONS	
DATE	
BY	
NO.	
PAGE	54
T.B.	535

Prepared For
Noblesville School Corp.
All Stationing Topographic Survey
Pt. Sec 31-19N-30E, Noblesville, Twp., Hamilton Co., IN

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- Legend:**
- = Aerial Electric/Telephone Line
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 - = Power Pole
 - = Concrete Surface
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Michael L. Deboy, REG. L.S. IND#S0539

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FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYORS

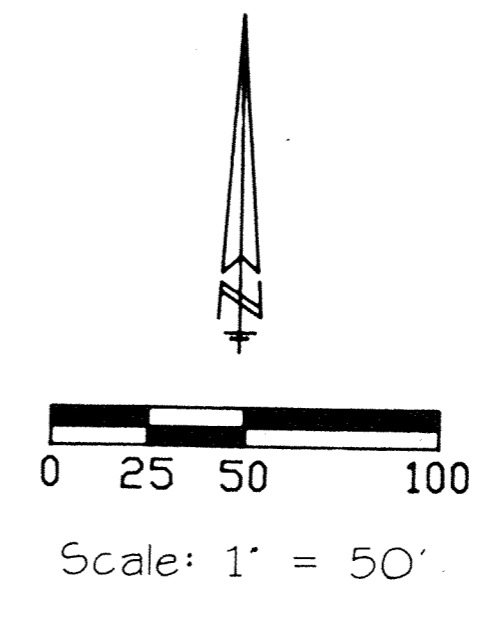
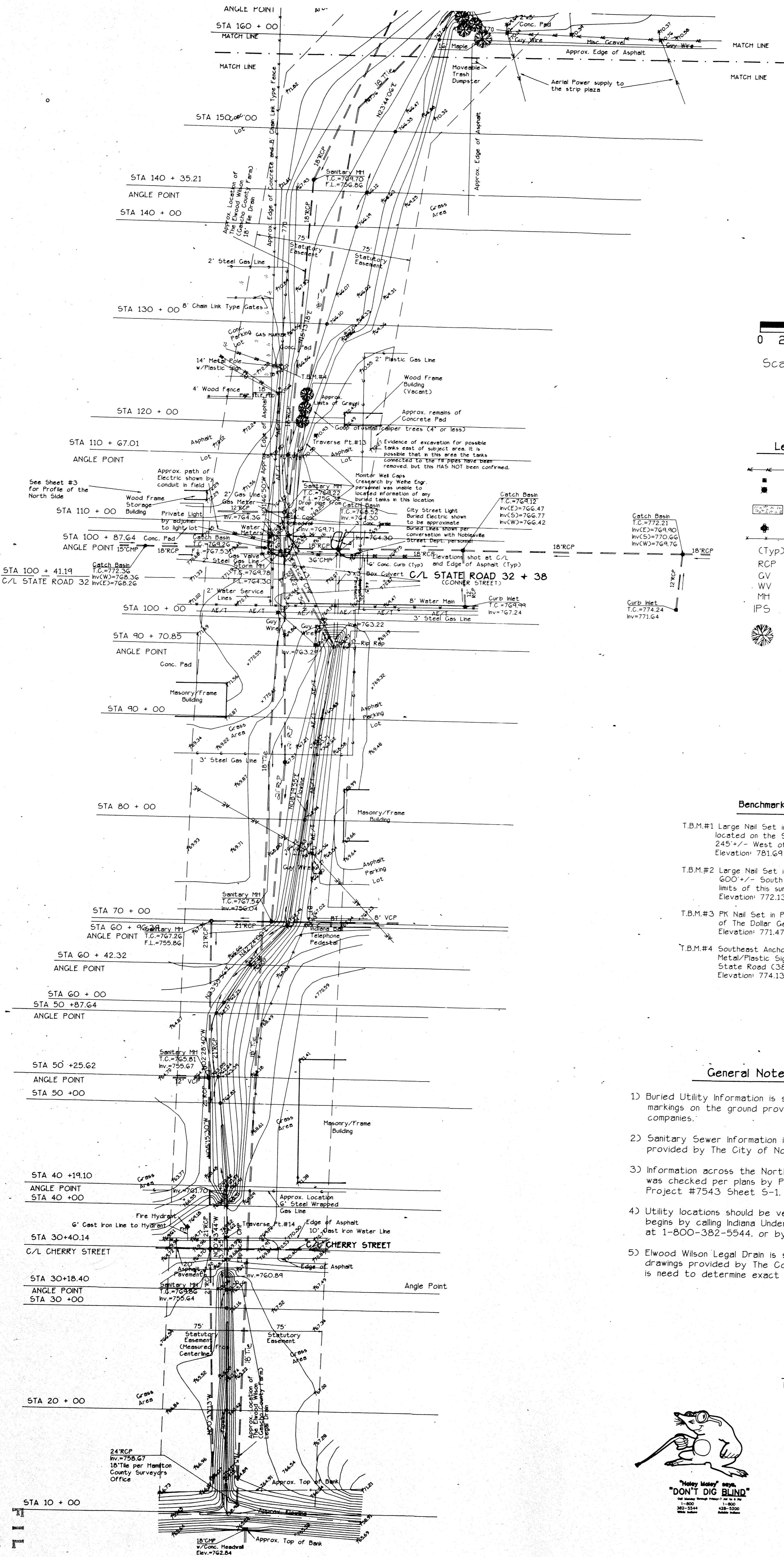
Prepared For:
Noblesville School Corp.

REVISIONS	DATE	BY	JOB NO.
92-128			
		M.W.	
		CHECKED BY	
		M.L.D.	
		DATE	
		2-15-97	

WEIHE ENGINEERS INC.
 10505 NORTH COLLEGE AVENUE
 INDIANAPOLIS, INDIANA 46280
 (317) 846-6611

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

ALLAN H. WEIHE, P.E., L.S. PRESIDENT



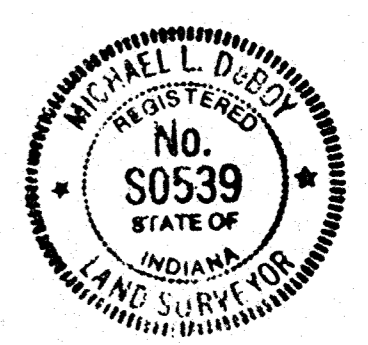
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Michael L. DeBoy
MICHAEL L. DEBOY, REG. L.S. #S0539



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FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

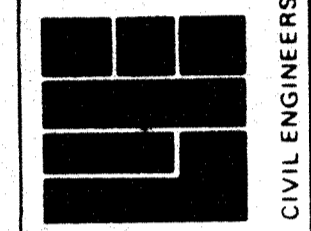
Prepared For:
Noblesville School Corp.
AIA/Situation/Topographic Survey
Pt. Sec 31-114N-R5E, Noblesville Twp., Hamilton Co., IN

REVISIONS	DATE	BY	JOB NO.
			92-128
			DRAWN BY
			M.W.
			CHECKED BY
			M.L.D.
			DATE
			2-15-93

WEIHE ENGINEERS INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611

ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS



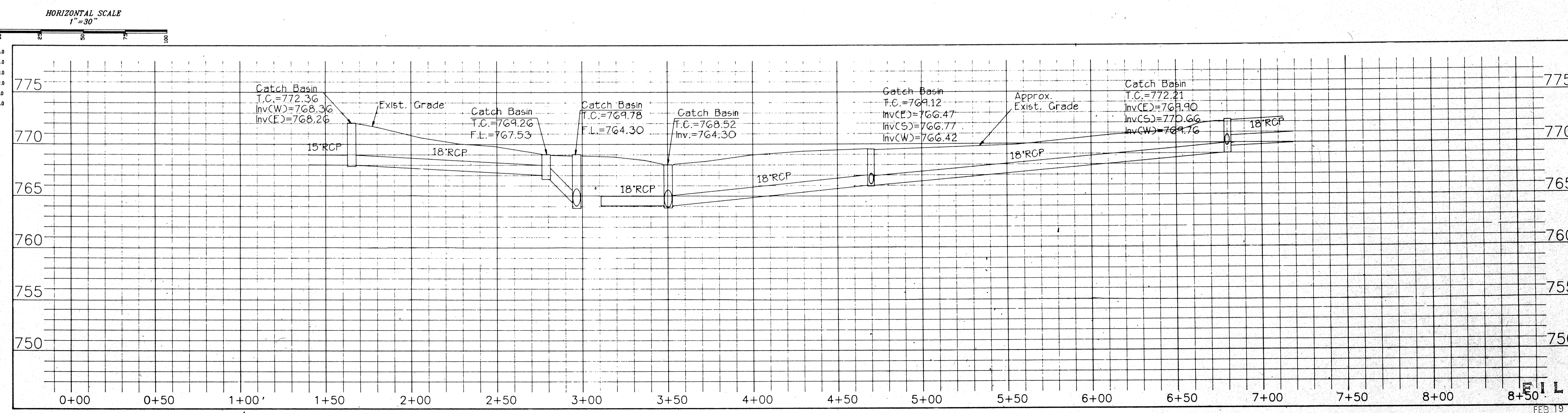
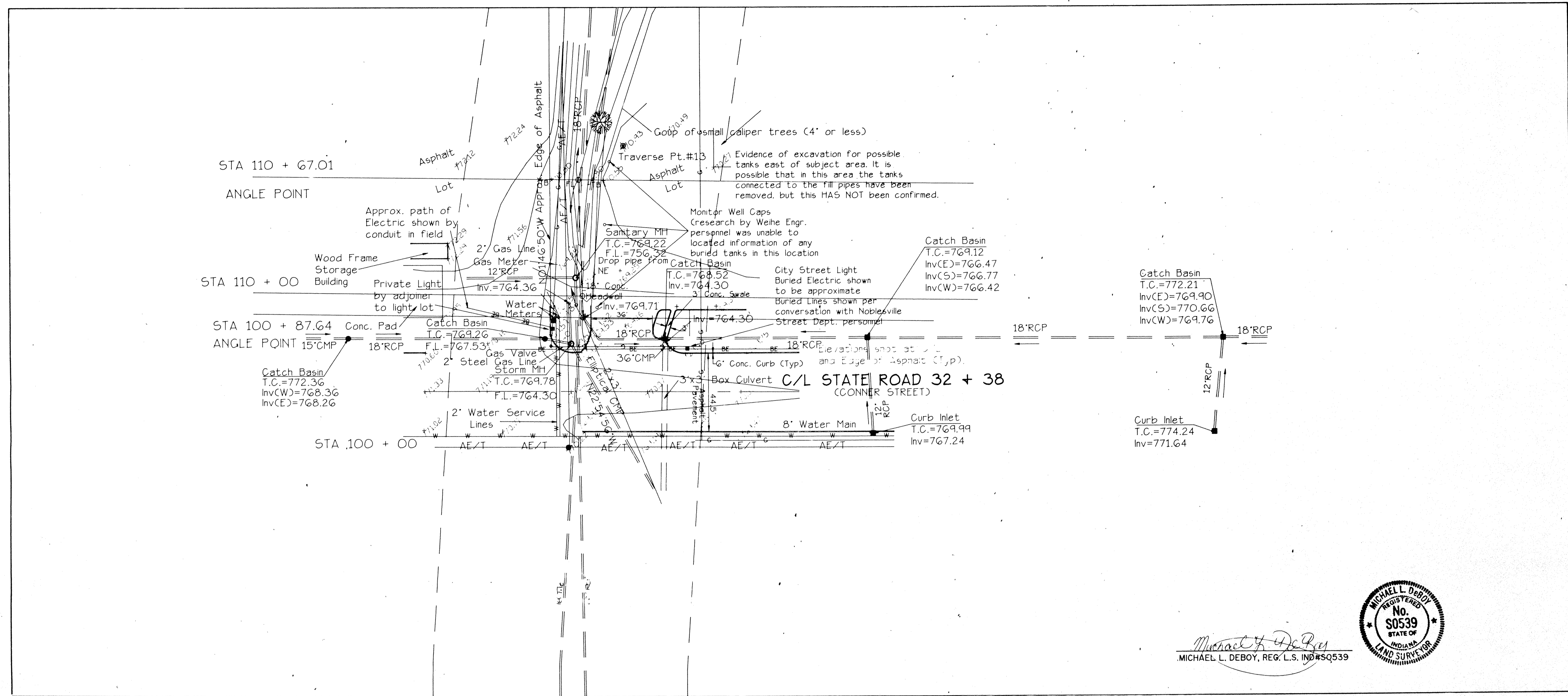
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 CHECKED BY M.L.D.
 DATE 2-15-93

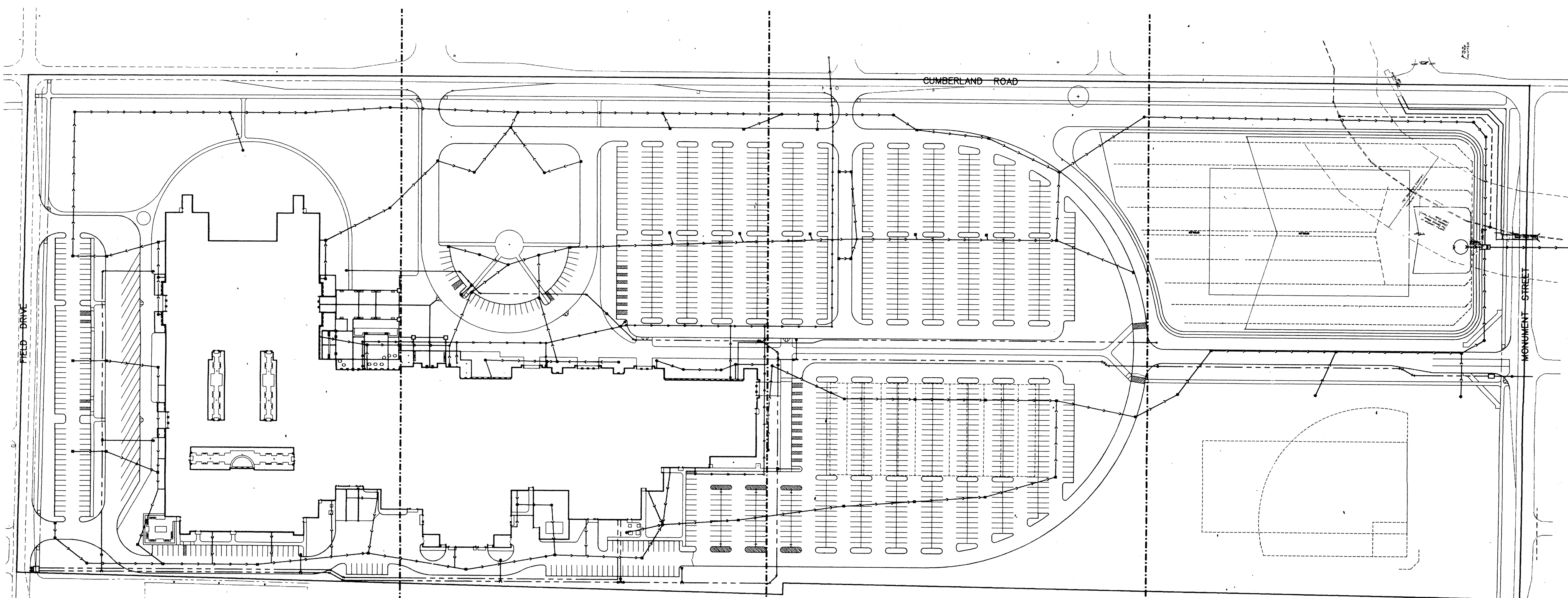
REVISIONS
 F.B. 5-25 PAGE 5/1

MICHAEL L. DEBOY
 REGISTERED
 No. S0539
 STATE OF INDIANA
 LAND SURVEYOR

Prepared For:
Noblesville School Corp.
 AIA/Situation/Topographic Survey
 Pt. Sec 31-141-RSE, Noblesville Twp., Hamilton Co., IN

SHEET NO. 3
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 FEB 19 1997
 OFFICE OF HAMILTON COUNTY SURVEYOR

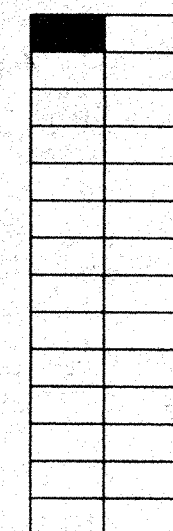




MATCH LINE A-A (SEE SHEET SD-2)
MATCH LINE A-A (SEE SHEET SD-3)

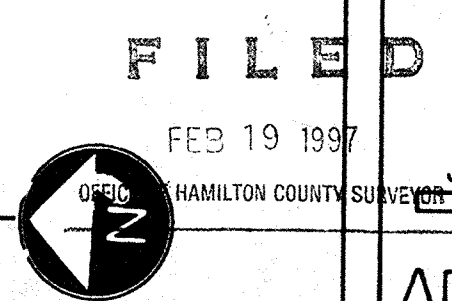
MATCH LINE B-B (SEE SHEET SD-3)
MATCH LINE B-B (SEE SHEET SD-4)

MATCH LINE C-C (SEE SHEET SD-4)
MATCH LINE C-C (SEE SHEET SD-5)



OVERALL UTILITY PLAN

SCALE: 1"=80'



NEW SCHOOL FOR
NOBLESVILLE HIGH SCHOOL
NOBLESVILLE SCHOOLS
NOBLESVILLE INDIANA

PROJECT NO. **91066**
DATE JUNE 3, 1993
drawn by:
checked by:

JOB NO. 92057

ADDI-SD-1

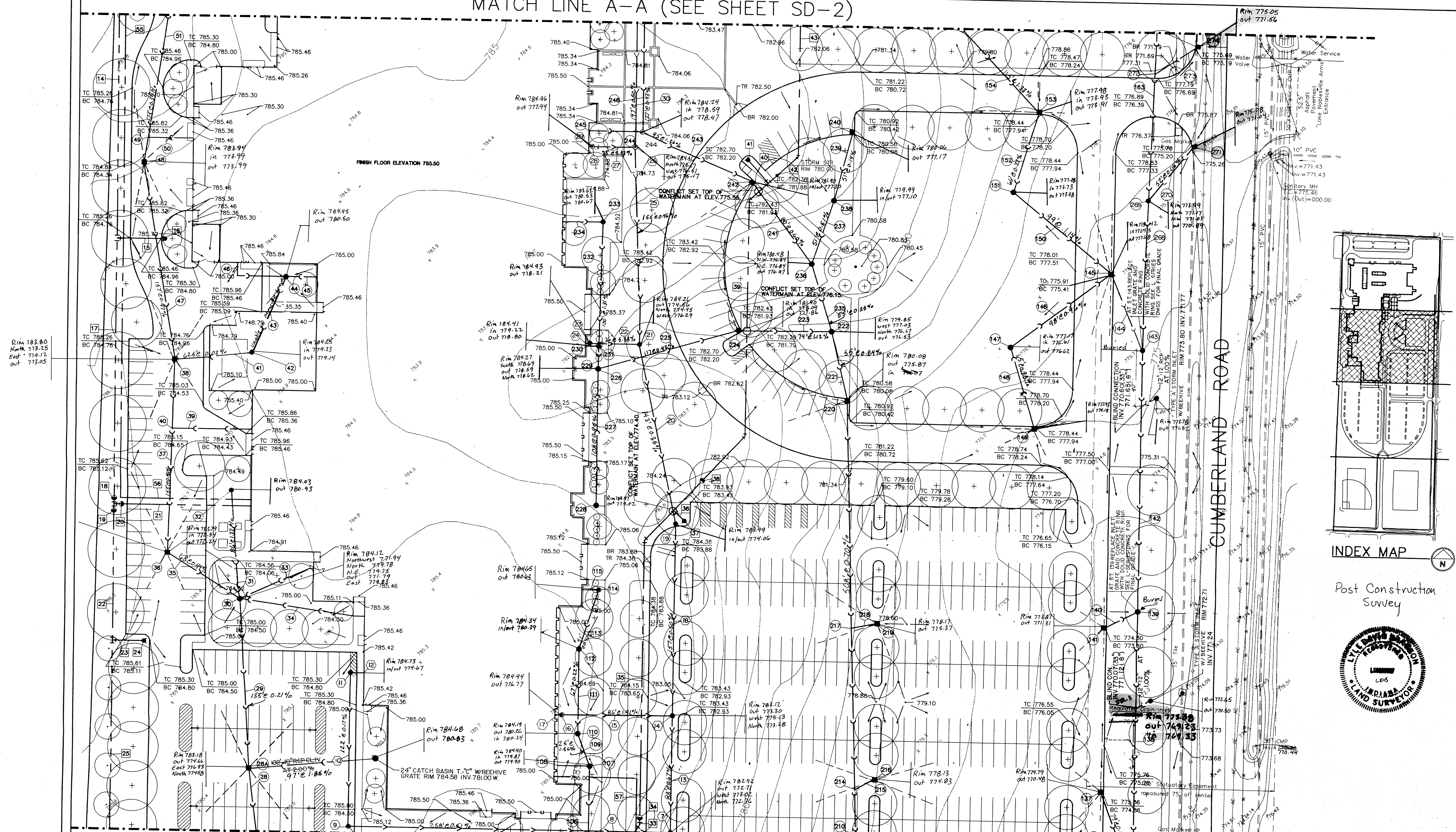
CERTIFIED

THE ODLE MCGUIRE & SHOOK CORPORATION
ARCHITECTURE • ENGINEERING • LANDSCAPE ARCHITECTURE • INTERIOR DESIGN
8785 NORTH STATE ROAD 37, POST OFFICE BOX 2148, BLOOMINGTON, INDIANA 47402, 812/878-2020
8275 ALISON POINTE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/845-0000

REVISIONS
7-6-93 PER ARCHITECT

marchris/moore associates
of indiana
consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, In 46260-1812
(317) 843-2520 FAX 848-2765

MATCH LINE A-A (SEE SHEET SD-2)



PROJECT NOTES

- STORM SEWER**
- 28. 187 L.F. 36" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 29. 60" DIA. STORM INLET RIM 783.00, INV. 772.00, 778.96
 - 30. 60" DIA. CATCHBASIN RIM 781.00, INV. 772.07 N (13'), 771.82 S (36')
 - 31. 780.00 M (101') 780.00 (6") 780.00 (6")
 - 32. 25" DIA. CATCHBASIN RIM 781.15, INV. 780.81
 - 33. 60 L.F. 6" P.V.C. SDR 26 ROOF DRAIN AT 1.5%
 - 34. 100 L.F. 6" P.V.C. SDR 26 ROOF DRAIN AT 2.0%
 - 35. 60" DIA. STORM INLET RIM 783.24, INV. 772.46, 772.46 (133)
 - 36. 60" DIA. STORM INLET RIM 783.24, INV. 772.46, 772.46 (133)
 - 37. 25" DIA. 6" P.V.C. SDR 26 ROOF DRAIN AT 1.5%
 - 38. 60" DIA. STORM INLET RIM 783.24, INV. 772.46, 772.46 (133)
 - 39. 78.60 R (10')
 - 40. 63 L.F. 6" P.V.C. SDR 26 ROOF DRAIN AT 11.18%
 - 41. BLIND CONNECTION INV. 773.83 (6"), 772.83 (30')
 - 42. 48" DIA. CATCHBASIN RIM 784.31, INV. 773.50
 - 43. 60 L.F. 6" P.V.C. SDR 26 ROOF DRAIN AT 1.5%
 - 44. 48" DIA. CATCHBASIN RIM 784.31, INV. 773.50
 - 45. 25 L.F. 6" P.V.C. SDR 26 ROOF DRAIN AT 1.5%
 - 46. 48 L.F. 6" P.V.C. SDR 26 ROOF DRAIN AT 1.5%
 - 47. BLIND CONNECTION INV. 774.43 (10'), 773.76
 - 48. 60" DIA. STORM INLET RIM 784.14, INV. 773.50
 - 49. BLIND CONNECTION INV. 774.43 (10'), 773.76
 - 50. 35 L.F. 10" R.C.P. ROOF DRAIN AT 1.5%
 - 51. 498 L.F. 27" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 52. 60" DIA. STORM INLET RIM 784.31, INV. 773.50, 780.70 W (8')
 - 53. 108 L.F. 18" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 54. 224 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 55. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 56. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 57. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 58. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 59. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
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 - 61. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 62. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 63. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 64. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 65. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 66. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
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 - 73. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 74. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 75. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 76. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 77. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
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 - 79. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 80. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 81. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 82. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 83. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 84. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 85. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 86. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 87. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 88. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 89. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 90. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 91. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 92. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 93. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 94. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 95. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 96. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 97. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 98. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 99. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
 - 100. 112 L.F. 15" R.C.P. STORM SEWER CL. 111 AT 0.23%
- WATERMAIN**
- 1. 48" DIA. SANITARY MANHOLE RIM 782.62, INV. 773.06 N, 773.84 W, 772.89 S
 - 2. 258 L.F. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.23%
 - 3. 48" DIA. SANITARY MANHOLE RIM 784.45, INV. 774.38
 - 4. 102 L.F. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.23%
 - 5. 48" DIA. SANITARY MANHOLE RIM 784.75, INV. 774.30
 - 6. 120 L.F. 10" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 7. 48" DIA. SANITARY MANHOLE RIM 784.45, INV. 774.38
 - 8. 138 L.F. 8" P.V.C. SDR 26 SANITARY SEWER AT 0.23%
 - 9. 48" DIA. SANITARY MANHOLE RIM 783.15, INV. 773.42 N-S, 775.30 W
 - 10. 48" DIA. SANITARY MANHOLE RIM 784.95, INV. 778.70 W, 777.50 E
 - 11. 5 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 12. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 13. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 14. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 15. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 16. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 17. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 18. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 19. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 20. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 21. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 22. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 23. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 24. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 25. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 26. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 27. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 28. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 29. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 30. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 31. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 32. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 33. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 34. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 35. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 36. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 37. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 38. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 39. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 40. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 41. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 42. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 43. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 44. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 45. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 46. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 47. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 48. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 49. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 50. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 51. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 52. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 53. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 54. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 55. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 56. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 57. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 58. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 59. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 60. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 61. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 62. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 63. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 64. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 65. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 66. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 67. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 68. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 69. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 70. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 71. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 72. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 73. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 74. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 75. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 76. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 77. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 78. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 79. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 80. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 81. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 82. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 83. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 84. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 85. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 86. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 87. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 88. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 89. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 90. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 91. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 92. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 93. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 94. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 95. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 96. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 97. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 98. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 99. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%
 - 100. 10 L.F. 6" P.V.C. SDR 26 SANITARY SEWER AT 1.0%

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Indianapolis, IN 46260-1812
(317) 843-2520 FAX 848-2765

CERTIFIED
THE ODLE MCCLURE & SHOOK CORPORATION
ARCHITECTURE • ENGINEERING • LANDSCAPE ARCHITECTURE • INTERIOR DESIGN
875 NORTH STATE ROAD 37, 3RD FLOOR, BOX 2148, BLOOMINGTON, INDIANA 47402, 812/979-2000
875 ALISON FOOTE ROAD, 2ND FLOOR, BOX 3024, INDIANAPOLIS, INDIANA 46250, 317/642-0000

REVISIONS
7-6-93 PER ARCHITECT
11-01-96 PER MOORE, ENG.

NEW SCHOOL FOR
NOBLESVILLE HIGH SCHOOL
NOBLESVILLE SCHOOLS
INDIANA

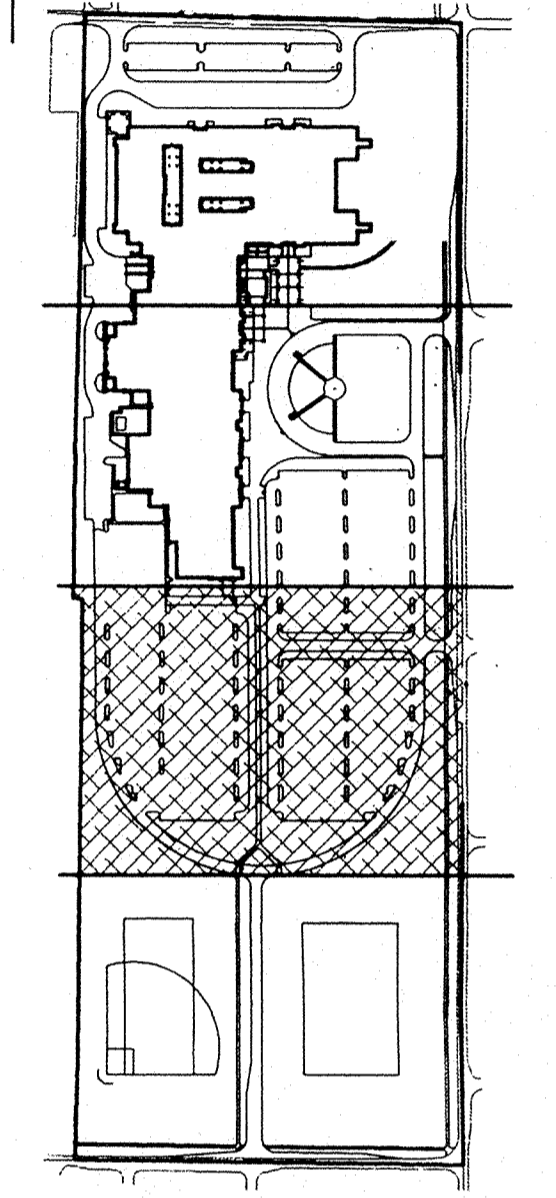
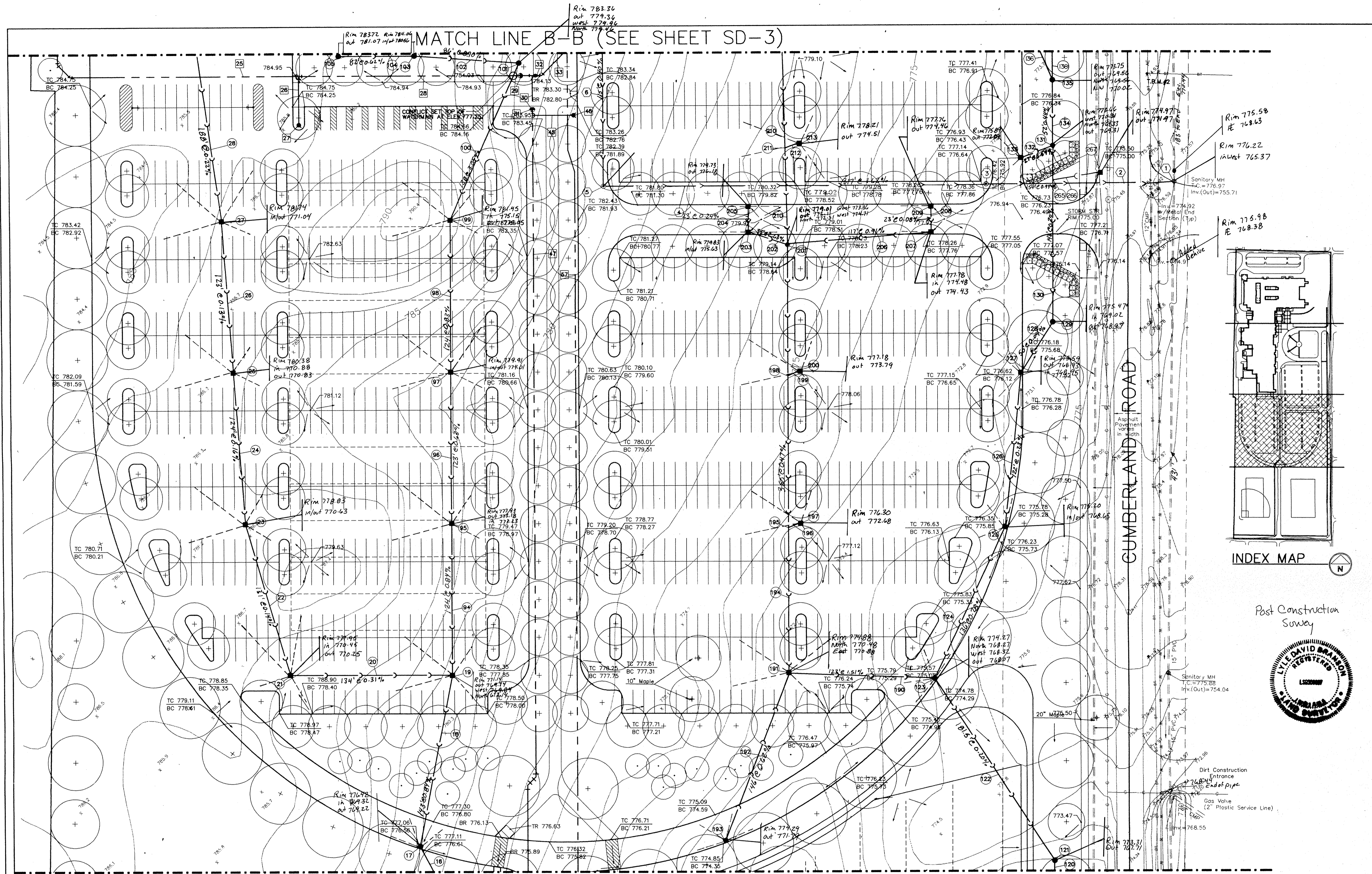
PROJECT NO. 91066
DATE: JUNE 3, 1993
DRAWN BY:
CHECKED BY:

FILED
FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

UTILITY PLAN

SCALE: 1"=30'

JOB NO. 92057
ADDI-SD-3



PROJECT NOTES

- STORM SEWER**
- 26. 18" L.F. 12" R.C.P. STORM SEWER CL. 111 AT 0.10%.
 - 27. 12" DIA. STORM INLET RIM 776.56, INV. 769.38.
 - 28. 14" DIA. STORM INLET RIM 777.25, INV. 770.45.
 - 29. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 30. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 31. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 32. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 33. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 34. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 35. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 36. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 37. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 38. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 39. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 40. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 41. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 42. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 43. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 44. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 45. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 46. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 47. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 48. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 49. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").
 - 50. 12" DIA. STORM INLET RIM 777.25, INV. 770.14 M (36"), 769.64 S (42").

- 129. 60" DIA. CATCHBASIN RIM 775.30, INV. 769.08.
- 130. 14" L.F. 36" R.C.P. STORM SEWER CL. 111 AT 0.40%.
- 131. 60" DIA. STORM MANHOLE RIM 773.43, INV. 769.34 S (36"), 769.59 N (33").
- 132. 72" DIA. (12').
- 133. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 134. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 135. 60" DIA. CATCHBASIN RIM 775.92, INV. 769.35 S (36"), 770.65 (10").
- 136. 71" L.F. 10" R.C.P. STORM SEWER CL. 111 AT 3.05%.
- 137. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 138. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 139. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 140. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 141. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 142. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 143. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 144. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 145. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 146. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 147. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 148. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 149. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").
- 150. 210" DIA. STORM INLET RIM 774.98, INV. 770.27 S (127"), 772.26 (12").

- SANITARY SEWER**
- 1. PROVIDE DROP CONNECTION TO EXISTING SANITARY MANHOLE RIM 776.97, INV. 765.64.
 - 2. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 3. 48" DIA. SANITARY MANHOLE RIM 776.69, INV. 767.21.
 - 4. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 5. 48" DIA. SANITARY MANHOLE RIM 776.69, INV. 772.57.
 - 6. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 7. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 8. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 9. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 10. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 11. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 12. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 13. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 14. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 15. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 16. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 17. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 18. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 19. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 20. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 21. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 22. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 23. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 24. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 25. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 26. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 27. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 28. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 29. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 30. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 31. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 32. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 33. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 34. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 35. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 36. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 37. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 38. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 39. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 40. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 41. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 42. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 43. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 44. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
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 - 46. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 47. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 48. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 49. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.
 - 50. 10" P.V.C. SDR 26 SANITARY SEWER AT 0.00%.

- WATERMAIN**
- 26. 10" X 6" TEE W/3" L.F. 6" P.V.C. ANNA C-900 W/FITTINGS.
 - 27. BREAK FLANGE FIRE HYDRANT C.R. ELEV. 764.50.
 - 28. 182' L.F. 10" P.V.C. ANNA C-900 W/FITTINGS.
 - 29. 10" DATE VALVE AND BOX RIM ELEV. 764.30.
 - 30. 10" X 10" TEE W/2" L.F. 10" P.V.C. ANNA C-900 W/FITTINGS.
 - 31. 10" DATE VALVE AND BOX RIM ELEV. 761.60.
 - 32. 10" X 8" REDUCER.
 - 33. 55' L.F. 8" P.V.C. ANNA C-900 W/FITTINGS.
 - 45. 10" X 6" TEE W/2" L.F. 6" P.V.C. ANNA C-900 W/FITTINGS.
 - 46. BREAK FLANGE FIRE HYDRANT C.R. ELEV. 763.30.
 - 47. 630' L.F. 10" P.V.C. ANNA C-900 W/FITTINGS.
 - 57. 810' L.F. 2" TEE W/2" COFFER SERVICE.

- 202. 24" DIA. STORM INLET RIM 775.30, INV. 769.08.
- 203. 48" DIA. STORM INLET RIM 776.69, INV. 772.62.
- 204. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 205. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 206. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 207. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 208. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 209. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 210. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 211. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 212. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 213. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 214. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 215. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 216. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 217. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 218. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 219. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 220. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 221. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 222. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 223. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 224. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 225. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 226. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 227. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 228. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 229. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.
- 230. 24" DIA. STORM INLET RIM 775.92, INV. 772.62.

- NOTE:** WITHIN THE CONFINES OF THE SITE ALTERNATE MATERIAL MAYBE SUBSTITUTED AS FOLLOWS: SEE SPECIFICATION SECTION 15417 FOR ADDITIONAL ALTERNATE MATERIALS.
1. ADS N-12 INSTEAD OF R.C.P. CLASS III.
 2. HANCOR HI-Q HDPE PIPE INSTEAD OF R.C.P. CLASS III.
 3. R.C.P. CLASS III SHALL BE USED UNDER ALL DRIVES WITHOUT EXCEPTION.

UTILITY PLAN

SCALE: 1"=40'

marchris/moore associates
of indiana
consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, IN 46260-1812
(317) 843-2520 FAX 848-2765

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THE ODLE MCGUIRE & SHOOK CORPORATION
ARCHITECTURE • ENGINEERING • LANDSCAPE ARCHITECTURE • INTERIOR DESIGN
8745 NORTH STATE ROAD 37, POST OFFICE BOX 7148, BLOOMINGTON, INDIANA 47402, 812/378-2000
8775 WILSON POWER TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/843-0000

REVISIONS
7-6-93 PER ARCHITECT
11-01-96 PER MOORE ENG

**NEW SCHOOL FOR
NOBLESVILLE HIGH SCHOOL
NOBLESVILLE SCHOOLS
NOBLESVILLE INDIANA**

FILED

FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

PROJECT NO. **91066**

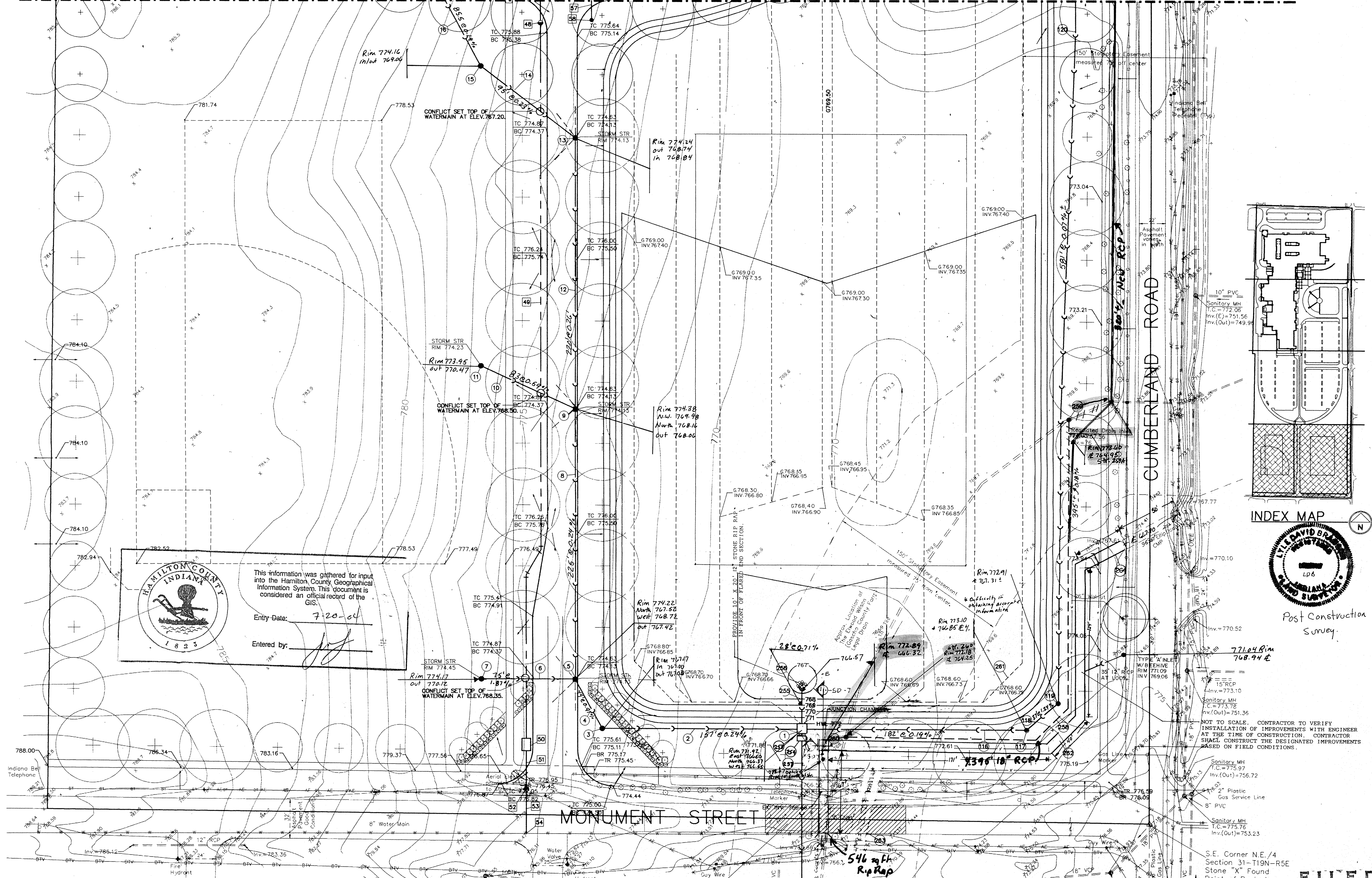
DATE: JUNE 3, 1993

drawn by:
checked by:

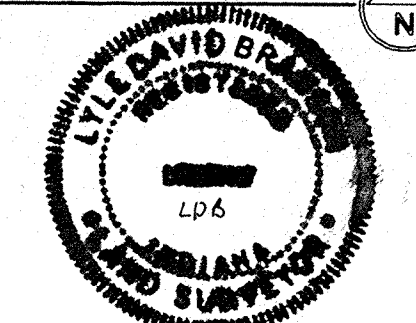
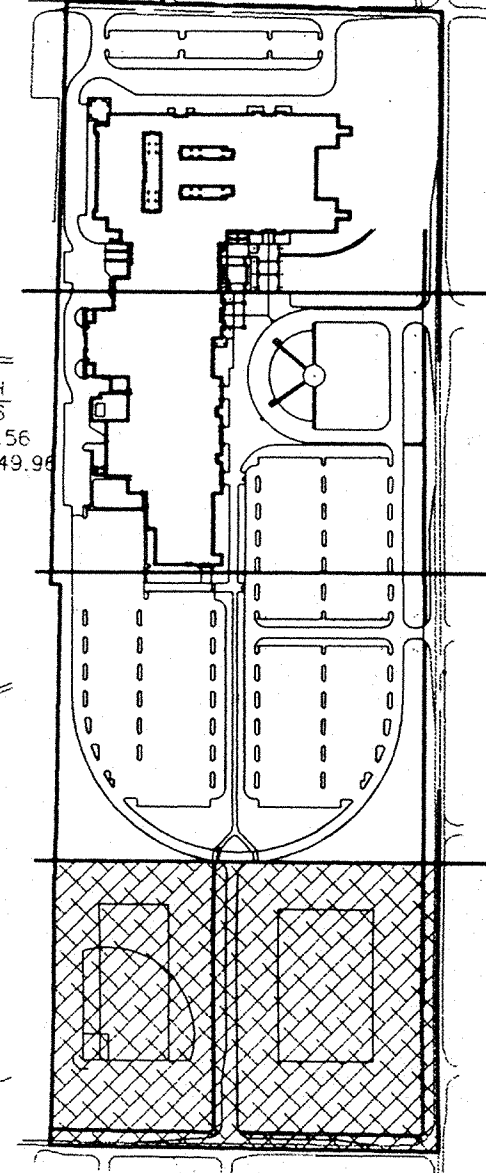
JOB NO. 92057

ADDI-SD-1

MATCH LINE C-C (SEE SHEET SD-4)



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: 7-20-04
 Entered by: [Signature]



PROJECT NOTES

- STORM SEWER**
- PROP. JUNCTION CHAMBER. SEE DETAIL SHEET ADD-SD-7
 - 15" L.F. 48" R.C.P. STORM SEWER CL. III AT 0.24%
 - 12" DIA. STORM MANHOLE RIM 775.00, INV. 767.35
 - 44" L.F. 42" R.C.P. STORM SEWER CL. III AT 0.09%
 - 72" DIA. STORM INLET RIM 774.13, INV. 767.58 N.S. 765.05 W (15")
 - 15" L.F. 42" R.C.P. STORM SEWER CL. III AT 0.87%
 - 24" DIA. CATCHBASIN RIM 774.45, INV. 770.45
 - 345' L.F. 42" R.C.P. STORM SEWER CL. III AT 0.24%
 - 24" DIA. STORM INLET RIM 774.13, INV. 767.62 N.S. 769.49 IN (15")
 - 84" L.F. 42" R.C.P. STORM SEWER CL. III AT 0.24%
 - 72" DIA. STORM INLET RIM 774.23, INV. 769.01
 - 92" L.F. 42" R.C.P. STORM SEWER CL. III AT 0.23%
 - 72" DIA. CATCHBASIN RIM 774.19, INV. 769.22
 - 85" L.F. 42" R.C.P. STORM SEWER CL. III AT 0.19%
 - 184' L.F. 36" X 60" ALIFT. STORM SEWER AT 0.00%
 - 117' 48" DIA. T-MANHOLE RIM 772.20, INV. 766.94
 - 184' L.F. 36" X 60" ALIFT. STORM SEWER AT 0.00%
 - 139' 48" DIA. T-MANHOLE RIM 772.20, INV. 767.00
 - 506' L.F. 36" X 60" ALIFT. STORM SEWER AT 0.07%
- WATERMAIN**
- 10" DRAIN VALVE AND BOX RIM EL. 776.50
 - 48" 605' L.F. 10" T.V.C. AMIA C-900 W/FITTINGS
 - HETER FIT (SEE DETAIL)
 - 51' 35' L.F. 10" P.V.C. AMIA C-900 W/FITTINGS
 - 52' 10" DRAIN VALVE AND BOX RIM EL. 776.60
 - 53' 15' L.F. 10" P.V.C. AMIA C-900 W/FITTINGS
 - 54' 10" X 6" PRESSURE TAP BY CONTRACTOR
 - 57' 85' L.F. 2" TIE "C" COPPER SERVICE
 - 58' DRINKING FOUNTAIN
253. 2' L.F. 18" R.C.P. CL. IV RESTRICTOR INV. 766.50
 254. 2' X 4' OVERFLOW STRUCTURE RIM 772.00
 255. 12' L.F. 48" R.C.P. CL. III STORM SEWER AT 0.24%
 256. 48" F.E.C. INV. 766.63
 257. 36" R.C.P. CL. III STORM SEWER AT 0.15%
 258. 18" LEGAL DRAIN TILE TO BE RELOCATED. PROVIDE 18" R.C.P. CL. III.
 PROVIDE POSITIVE SLOPE.
 259. LEGAL DRAIN TILE 4/8" DIA. MANHOLE RIM EL.
 CONTRACTOR TO VERIFY LOCATION AND DEPTH IN FIELD.
 260. CONNECT TO EXIST. 18" LEGAL DRAIN TILE 4/8" DIA. MANHOLE RIM EL.
 CONTRACTOR TO VERIFY LOCATION AND DEPTH IN FIELD.
 261. 530' L.F. C-900 V.C. DRAIN TILE.
 262. 360' L.F. 36" X 60" CMP ARCH PIPE
 263. 72' L.F. 4' X 8' CONCRETE BOX CULVERT.
 264. 27' L.F. 96" X 67" ARCH. PIPE (MATCH EXISTING UPSTREAM CULVERT CONTRACTOR TO VERIFY).

AREA OF STORM OPENING FOR THE INSTALLATION OF THE PROPOSED STORM SEWER IMPROVEMENTS.
 AREA TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL. STREET REPLACEMENT TO BE FULL DEPTH ASPHALT PAVEMENT (SEE DETAIL SHEET SD-5).

NOTE: WITHIN THE CONFINES OF THE SITE ALTERNATE MATERIAL MAYBE SUBSTITUTED AS FOLLOWS: SEE SPECIFICATION SECTION 15417 FOR ADDITIONAL ALTERNATE MATERIALS.

- ADS N-12 INSTEAD OF R.C.P. CLASS III.
- HANCOX H1-Q HDPE PIPE INSTEAD OF R.C.P. CLASS III.
- R.C.P. CLASS III SHALL BE USED UNDER ALL DRIVES WITHOUT EXCEPTION.

UTILITY PLAN

FILED

FEB 19 1997
 OFFICE OF HAMILTON COUNTY SURVEYOR

PROJECT NO. 91066

DATE: JUNE 3, 1993
 drawn by:
 checked by:

JOB NO. 92057

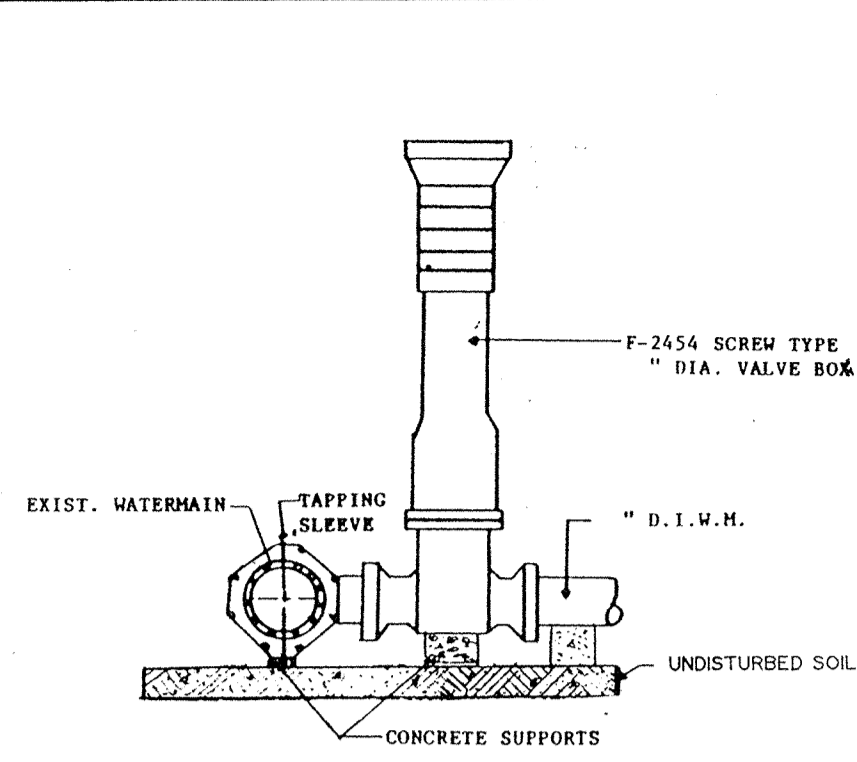
ADD-SD-5

marchris/moore associates
 of indiana
 consulting engineers
 9245 North Meridian Street
 Suite 105
 Indianapolis, IN 46260-1812
 (317) 843-2520 FAX 848-2765

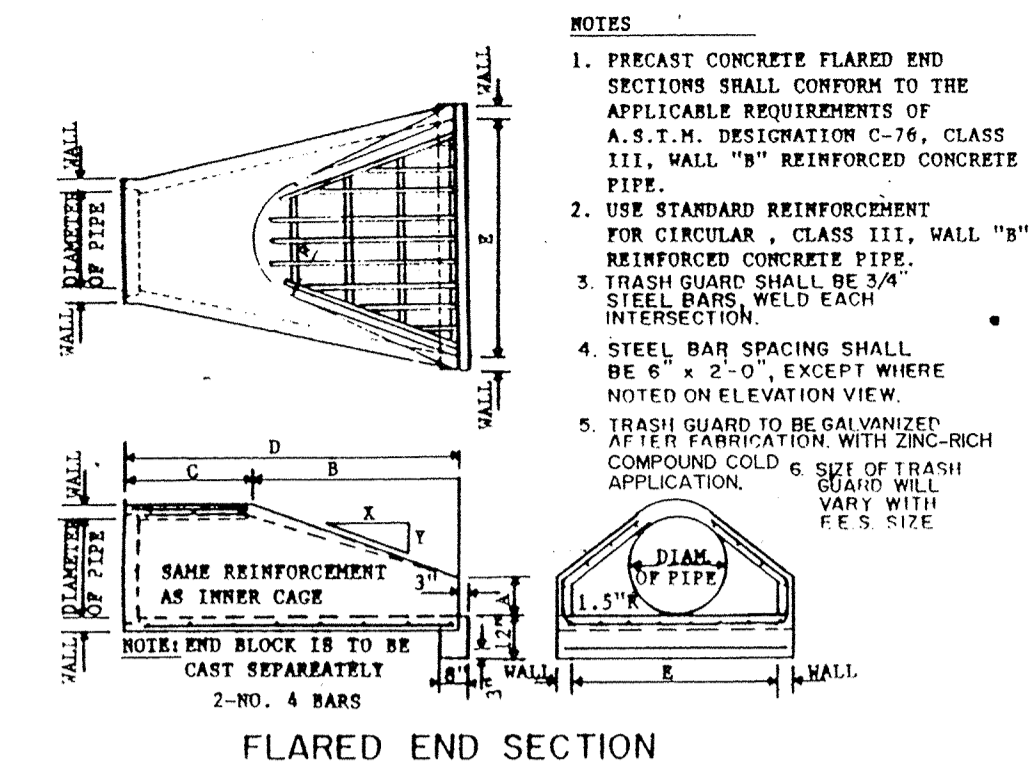
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 THE ODLE MCGUIRE & SHOOK CORPORATION
 ARCHITECTURE - ENGINEERING - LANDSCAPE ARCHITECTURE - INTERIOR DESIGN
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REVISIONS
 7-6-93 PER ARCHITECT
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NEW SCHOOL FOR
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 NOBLESVILLE INDIANA



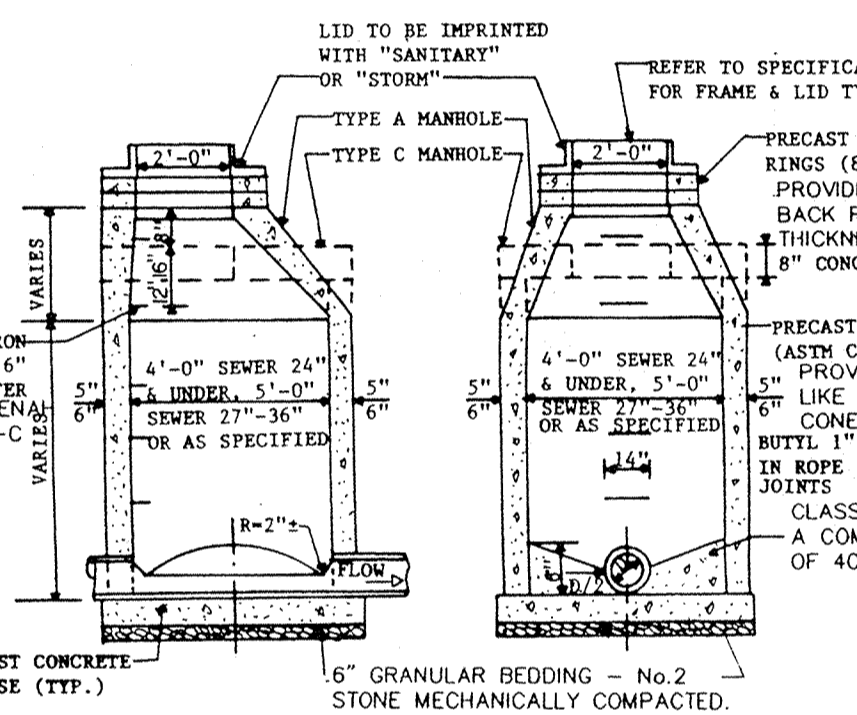
VALVE & ROAD BOX



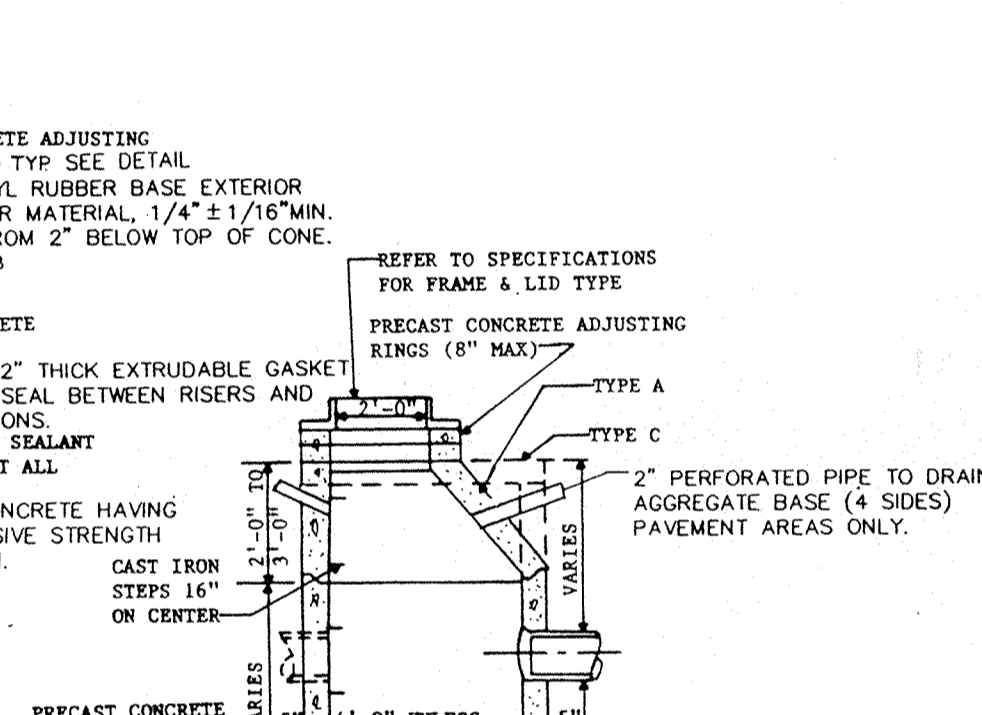
FLARED END SECTION

FLARED END SECTION - DIMENSION CHART

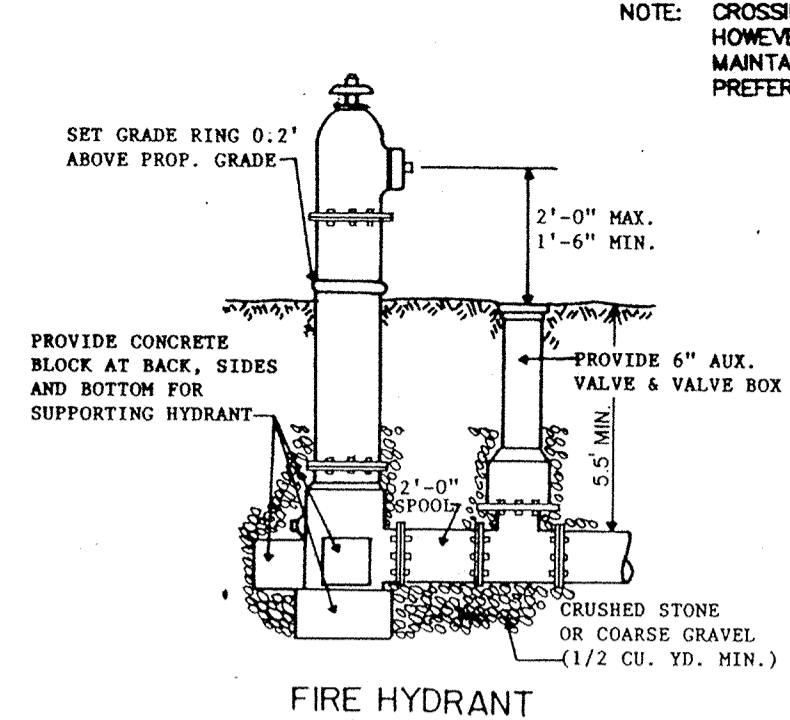
PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	4 1/2"	4 7/8"	6 7/8"	2 1/8"	9"	3:1
15"	2 1/4"	6"	2 3/4"	3 1/8"	6 1/2"	2 5/8"	11"	3:1
18"	2 1/2"	8"	2 3/4"	3 1/8"	6 1/2"	3 1/8"	12"	3:1
21"	2 3/4"	9"	2 1/2"	3 1/8"	6 1/2"	3 3/8"	13"	3:1
24"	3"	9 1/2"	3 1/2"	2 5/8"	6 1 1/2"	4 1/8"	14"	3:1
27"	3 1/4"	10 1/2"	4 1/8"	2 1 1/2"	6 1 1/2"	4 5/8"	14 1/2"	3:1
30"	3 1/2"	1 1/2"	4 6"	1 7/8"	6 1 3/4"	5 1/8"	15"	3:1
33"	3 3/4"	1 1/2"	4 1 1/2"	3 3/4"	6 1 3/4"	5 5/8"	17 1/2"	3:1
36"	4"	1 1/2"	5 1/8"	2 1 1/2"	6 1 3/4"	6 1/8"	20"	3:1
42"	4 1/2"	1 1/2"	5 3/8"	2 1 1/2"	6 1 3/4"	6 5/8"	22"	3:1
48"	5"	2 1/2"	6 1/8"	2 1 1/2"	6 1 3/4"	7 1/8"	22"	3:1
54"	5 1/2"	2 3/4"	5 5/8"	2 1 1/2"	6 1 3/4"	7 5/8"	24"	2.4:1



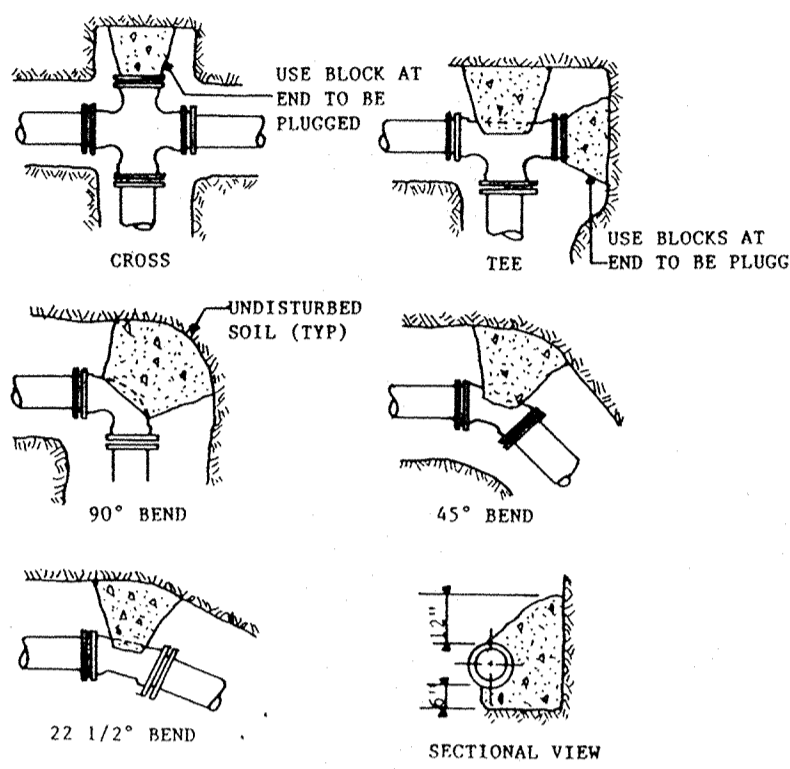
MANHOLE TYPES A & C
 NOTE: PROVIDE EXTERNAL CHIMNEY ON ALL SANITARY MANHOLES LIKE KENT-SEAL.
 NOTE: USE TYPE A UNLESS SPECIFIED IN SANITARY OR STORM SEWER NOTES.
 NOTE: OUTSIDE OF SAN. M.H. SHALL BE MOISTURE PROOFED WITH TWO COATS OF BITUMINOUS MATERIAL.



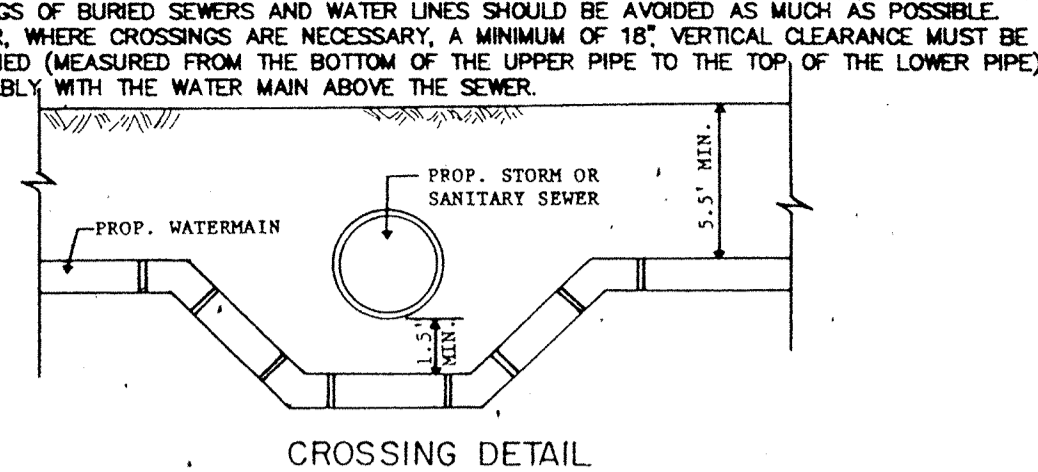
CATCHBASIN TYPES A & C
 NOTE: USE TYPE A UNLESS SPECIFIED IN STORM SEWER NOTES.



FIRE HYDRANT



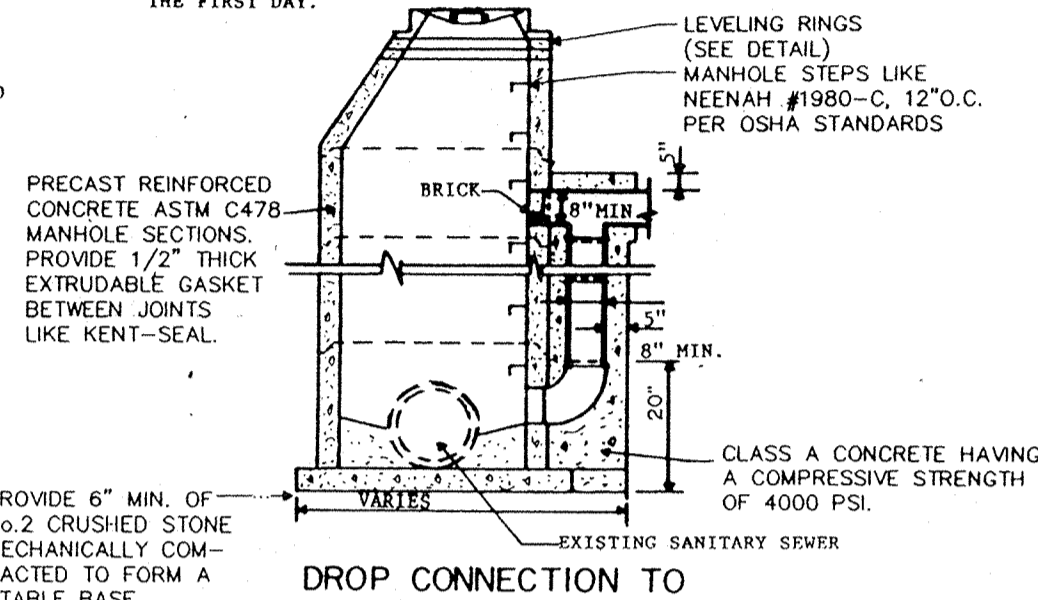
NOTE: THRUST BLOCKS TO BE USED AT 1/16 OR GREATER BENDS.
 THRUST BLOCKS TO BE FOURED AGAINST FIRM UNDISTURBED SOIL.
 USE CLASS "C" CONCRETE.
 COMPLY WITH NFPA 24.



CROSSING DETAIL

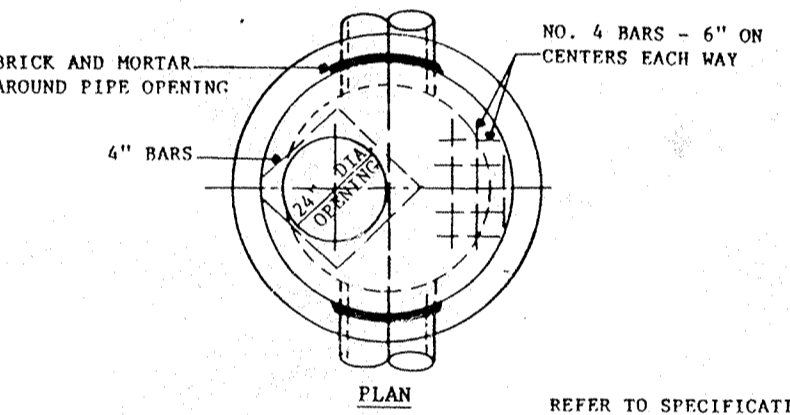
NOTE: USE MINIMUM OF 20 LF. OF WATER MAIN PRESSURE PIPES (MIN. OF 10' ON EACH SIDE OF THE CROSSING). FOR GRANTY SANITARY SEWER AND STORM SEWER USE P.V.C. SDR 26 CONFORMING TO A.S.T.M. D-2241, WITH COMPRESSION FITTINGS. PRESSURE TEST TO ASSURE WATERTIGHTNESS PRIOR TO BACK FILLING.

DROP MANHOLES SHALL BE REQUIRED WHEN THE DIFFERENCE IN ELEVATIONS OF INVERTS OF TWO (2) INTERSECTING CONDUITS IS GREATER THAN 24 INCHES.
 CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
 MAXIMUM PERMISSIBLE PIPE SIZE SHALL BE 36 INCHES.
 THE JOINTS BETWEEN SECTIONS SHALL CONFORM TO A.S.T.M. C-443.
 MAXIMUM HEIGHT FOR CONCRETE ENCASEMENT POUR FOR RISER ON THE FIRST DAY.

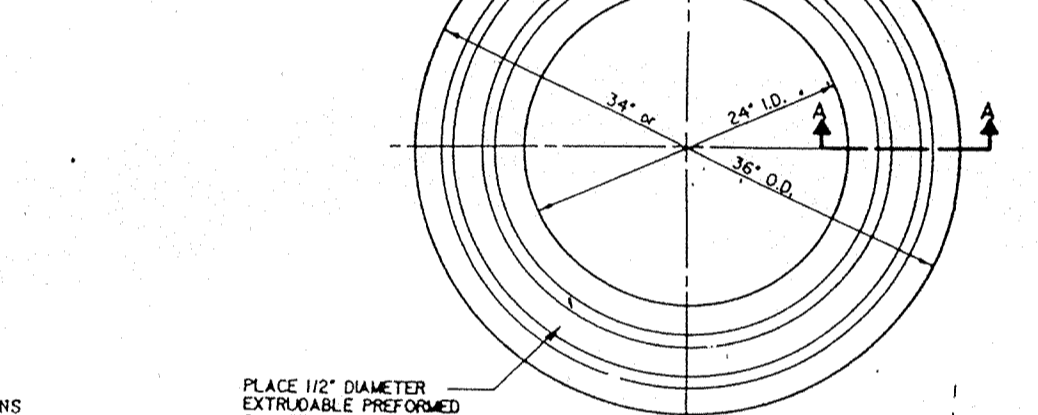


DROP CONNECTION TO SANITARY MANHOLE

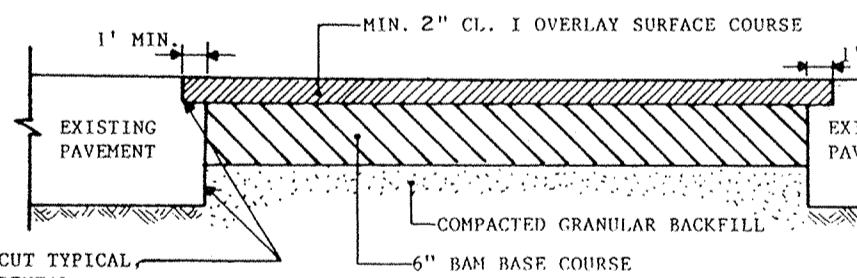
NOTE: PRECAST REINFORCED CONCRETE ASTM C478 MANHOLE SECTIONS PROVIDE 1/2" THICK EXTRUDABLE GASKET BETWEEN JOINTS LIKE KENT-SEAL.
 CLASS A CONCRETE HAVING A COMPRESSIVE STRENGTH OF 4000 PSI.



48" INLET

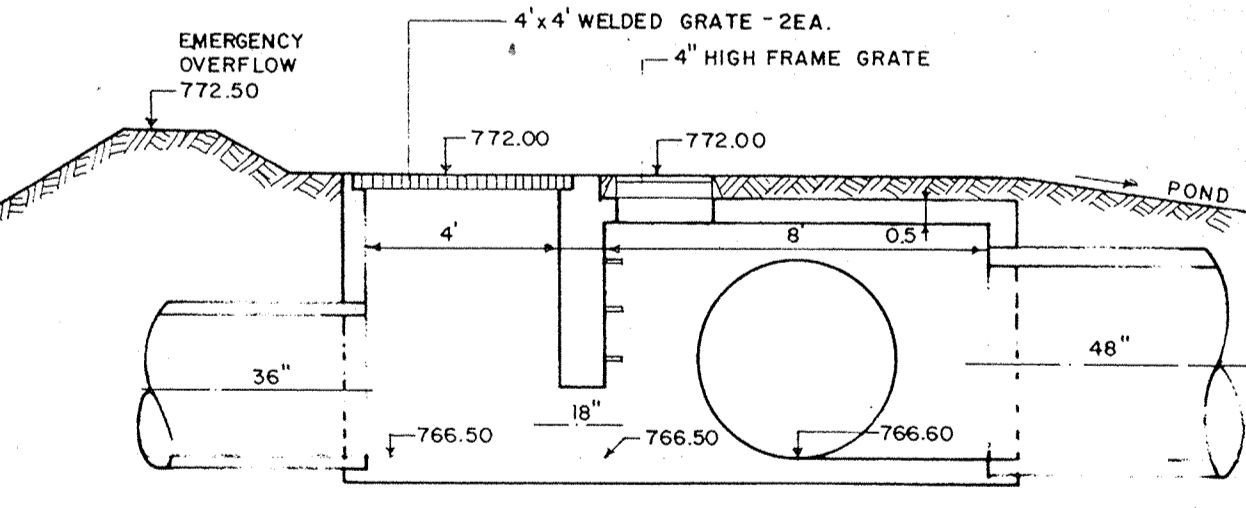


MANHOLE LEVELING RING DETAIL

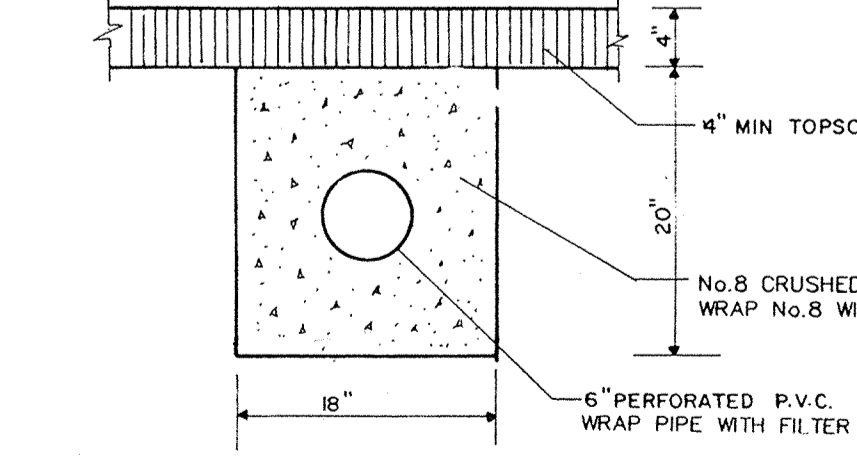


ASPHALT PAVEMENT PATCH DETAIL

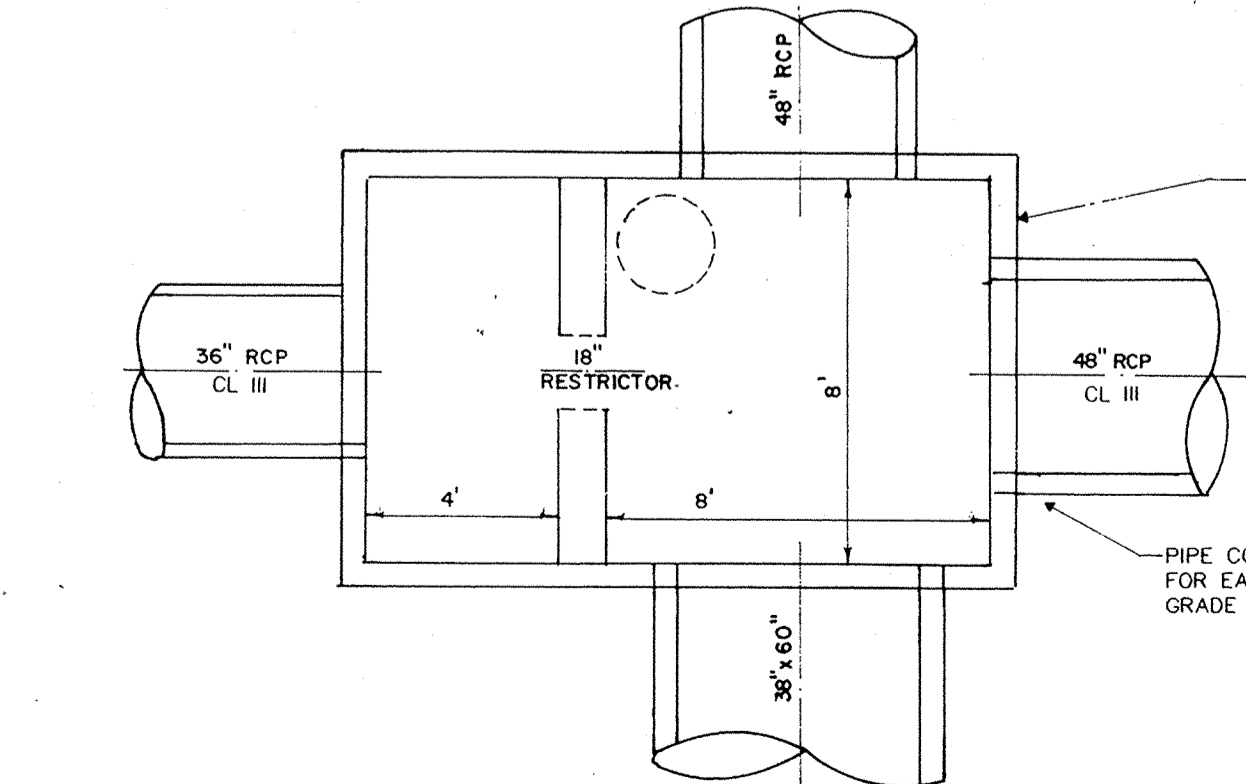
REFER TO CITY OF NOBLESVILLE DESIGN STANDARDS IF DETAILS CONFLICT.



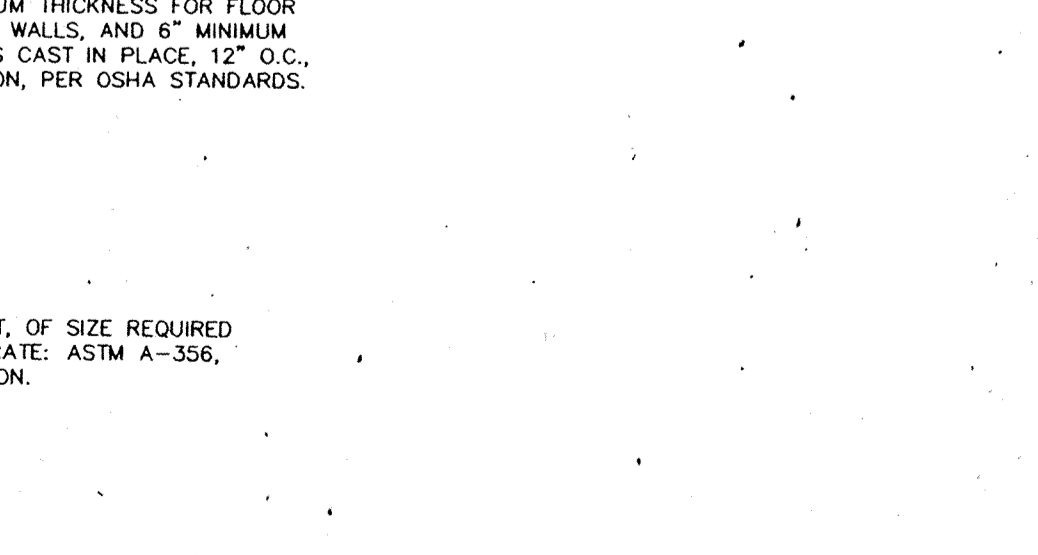
OPEN CHANNEL w/ GABION BASKETS



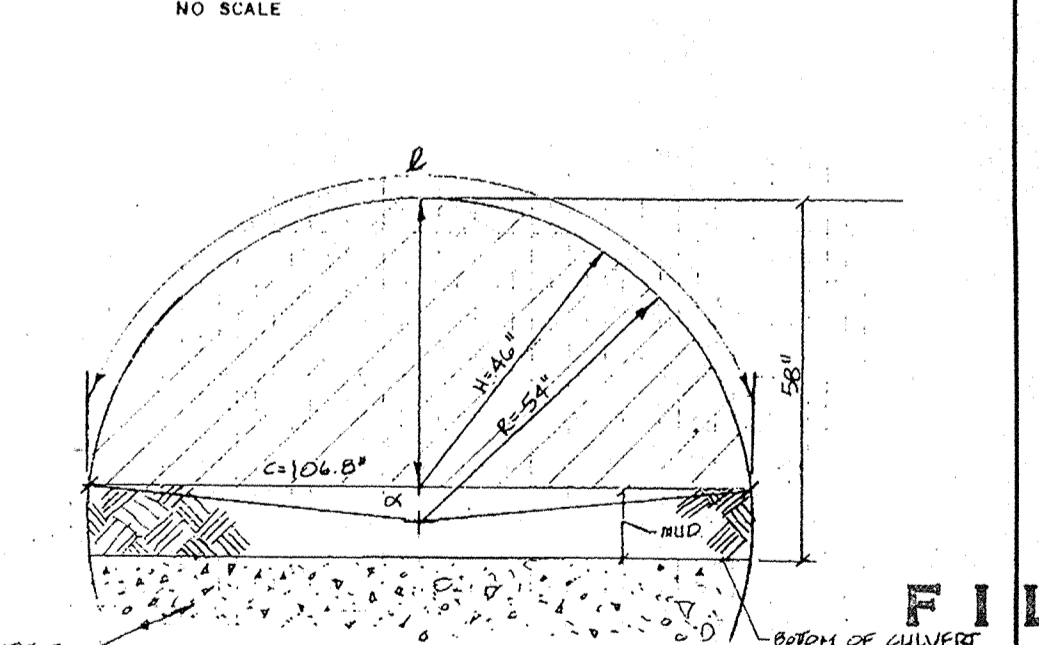
RETENTION POND UNDER-DRAIN



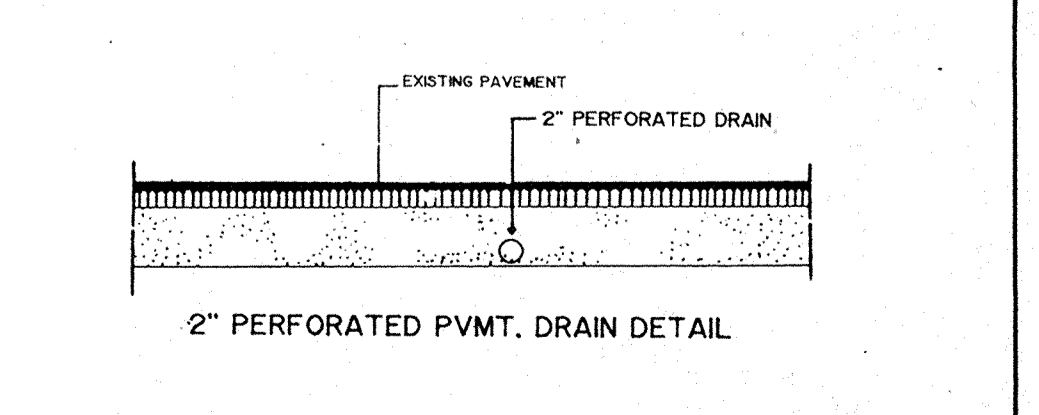
CONCRETE JUNCTION CHAMBER



2" PERFORATED PVMT DRAIN DETAIL



GREASE TRAP



108" C.M.P. WITH CONCRETE BASE

marchris/moore associates
 consulting engineers
 9245 North Meridian Street
 Suite 105
 Indianapolis, IN 46260-1812
 (317) 843-2520 FAX 848-2765

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THE ODLE McCURE & SHOOK CORPORATION
 ARCHITECTURE • ENGINEERING • LANDSCAPE ARCHITECTURE • INTERIOR DESIGN
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 8270 ALISON POWIE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/842-0000

REVISIONS
 7-6-93 PER ARCHITECT

FILED

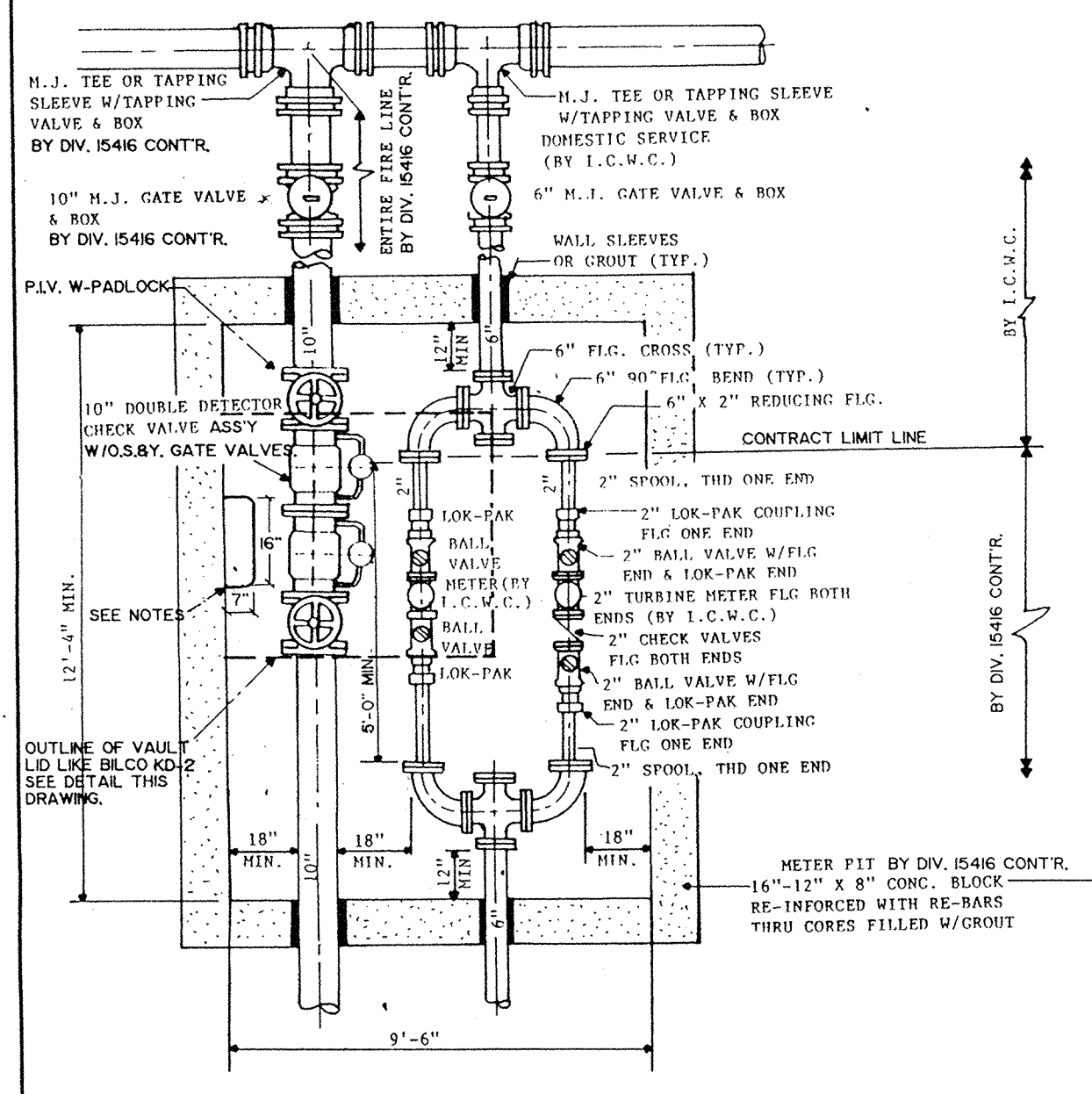
NEW SCHOOL FOR NOBLESVILLE HIGH SCHOOL
 NOBLESVILLE SCHOOLS
 NOBLESVILLE INDIANA

FEB 19 1997
 OFFICE OF HAMILTON COUNTY COMMISSIONER

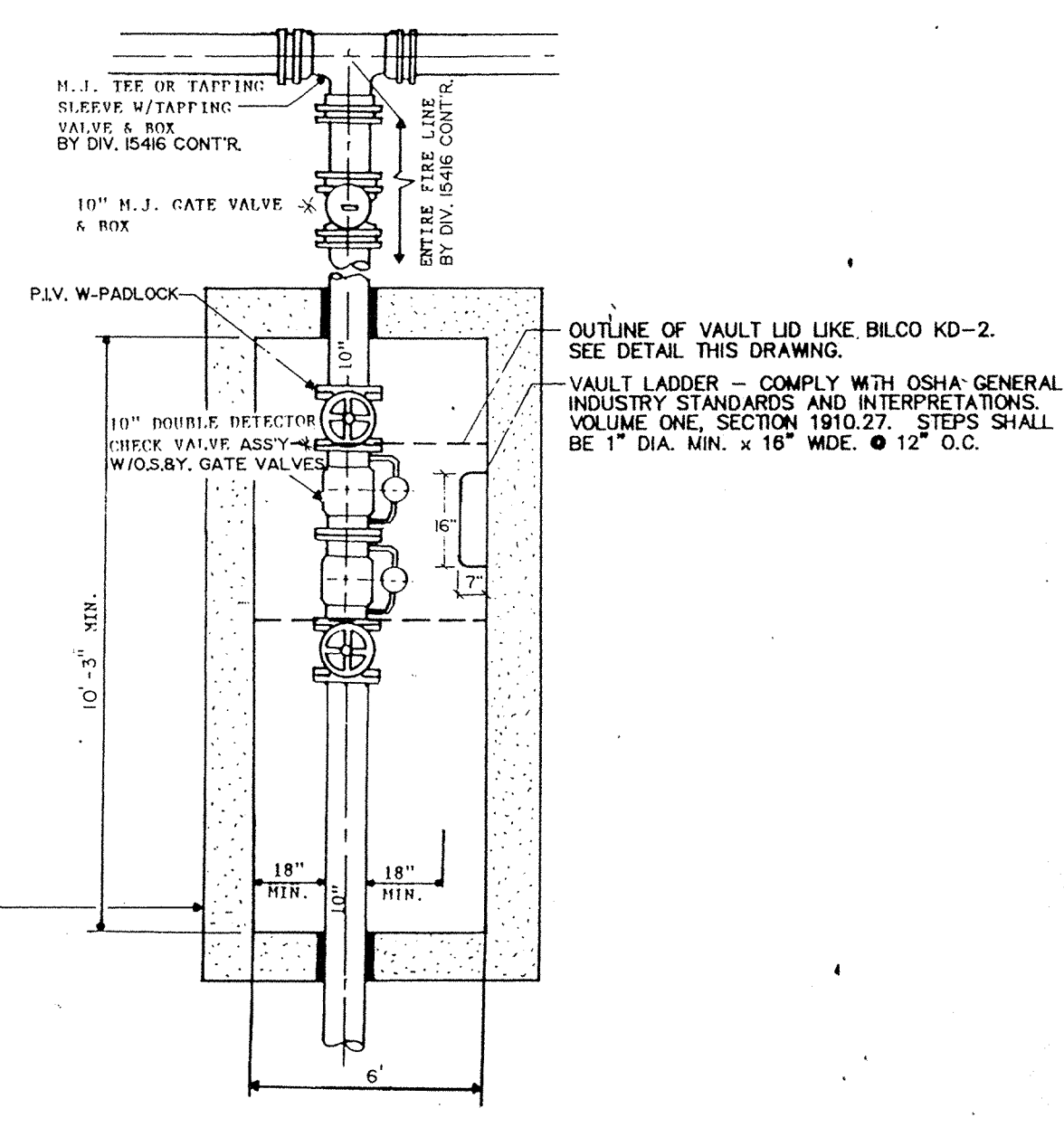
PROJECT NO. **91066**
 DATE
 drawn by
 checked by

JOB NO 92057

ADDI-SD-6

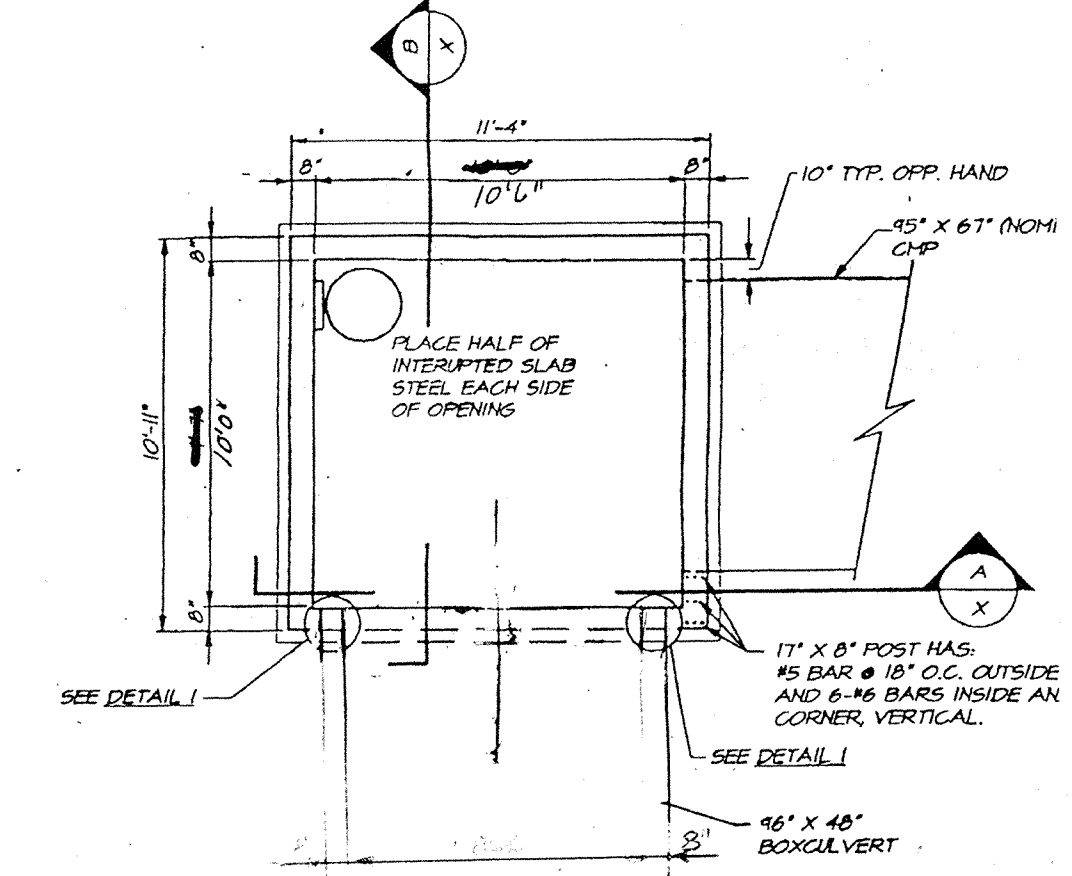


FIELD DRIVE METER PIT VAULT



MONUMENT STREET METER PIT VAULT

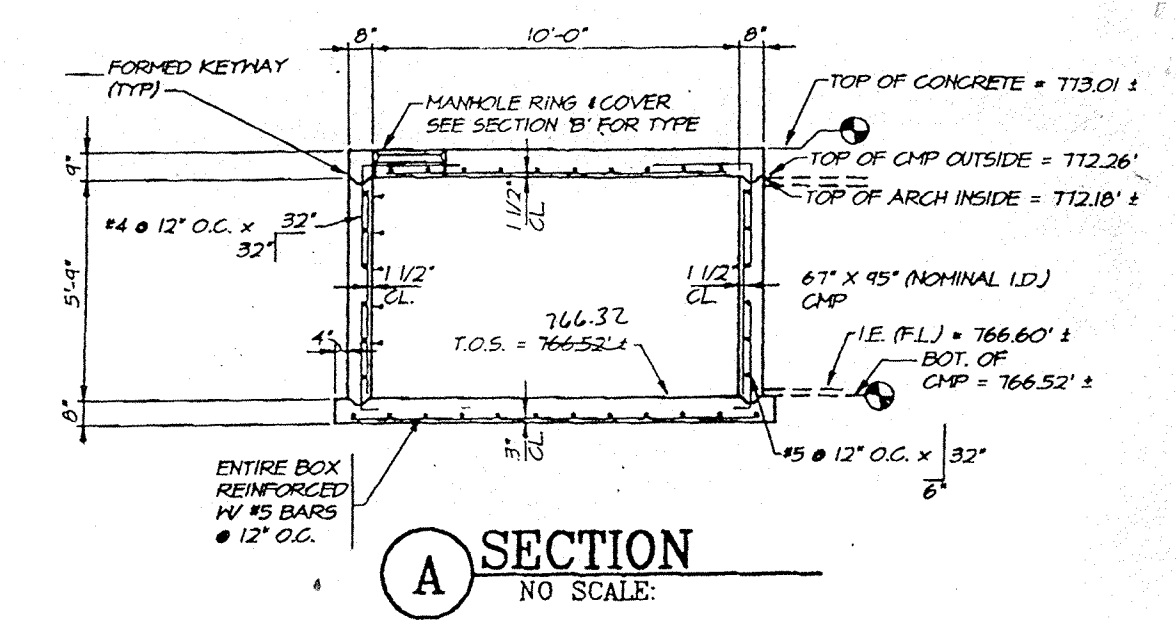
- NOTES APPLY TO ALL VAULT INSTALLATIONS.
1. TOP OF VAULT TO BE CONCRETE, AT LEAST 4" THICK WITH REINFORCEMENT, ASTM C478.
 2. CRUSHED STONE FLOOR IN BOTTOM OF VAULT, TO A MIN. DEPTH OF 6".
 3. CONTRACTOR SHALL FURNISH A LADDER FOR EASY ACCESS. LADDER TO BE INSTALLED UNDER VAULT LID. VAULT LADDER - COMPLY WITH OSHA GENERAL INDUSTRY STANDARDS AND INTERPRETATIONS, VOLUME ONE, SECTION 1910.27. STEPS SHALL BE 1" DIAMETER x 16" WIDE @ 12" O.C.
 4. VAULT SHALL BE LENGTHWISE WITH SERVICE.
 5. SERVICE SHALL BE APPROX. ONE FOOT ABOVE BOTTOM OF VAULT.
 6. CONTRACTOR SHALL ASSURE THAT GRADE LEVEL OF TOP OF VAULT CORRESPONDS WITH FINISHED GRADE LEVEL OF SURROUNDING AREA.
 7. PROVIDE VAULT LID WITH LOCK, AS DETAILED ON THIS DRAWING.
 8. SEE SPECIFICATION 15416 FOR POST INDICATOR VALVE (P.I.V.).



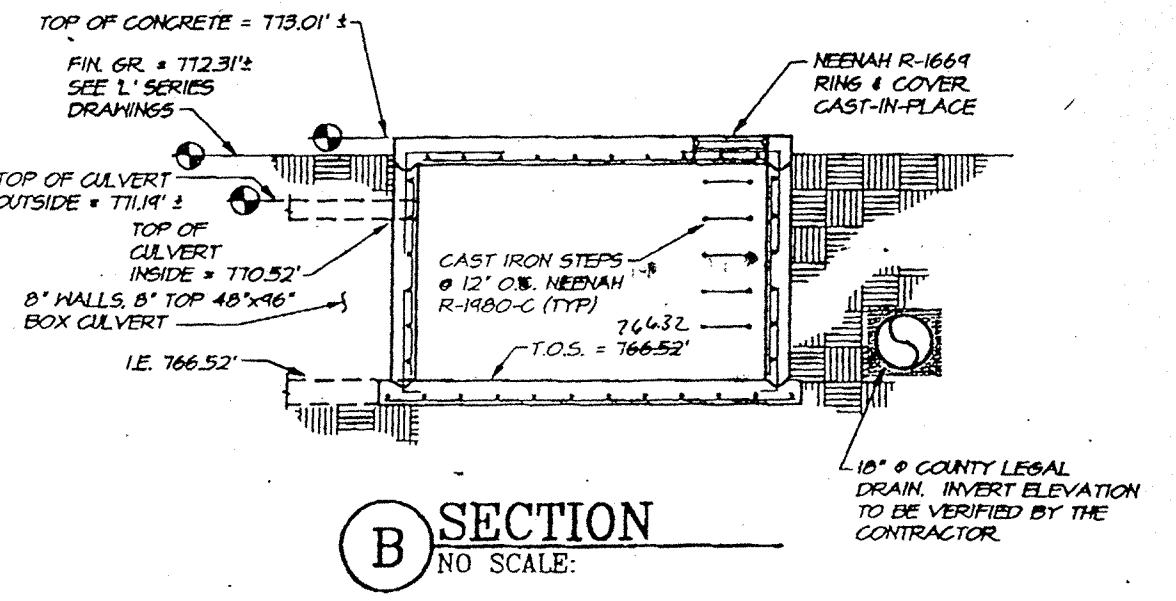
JUNCTION CHAMBER PLAN VIEW
SCALE: 1/4" = 1'-0"



1 DETAIL
NO SCALE



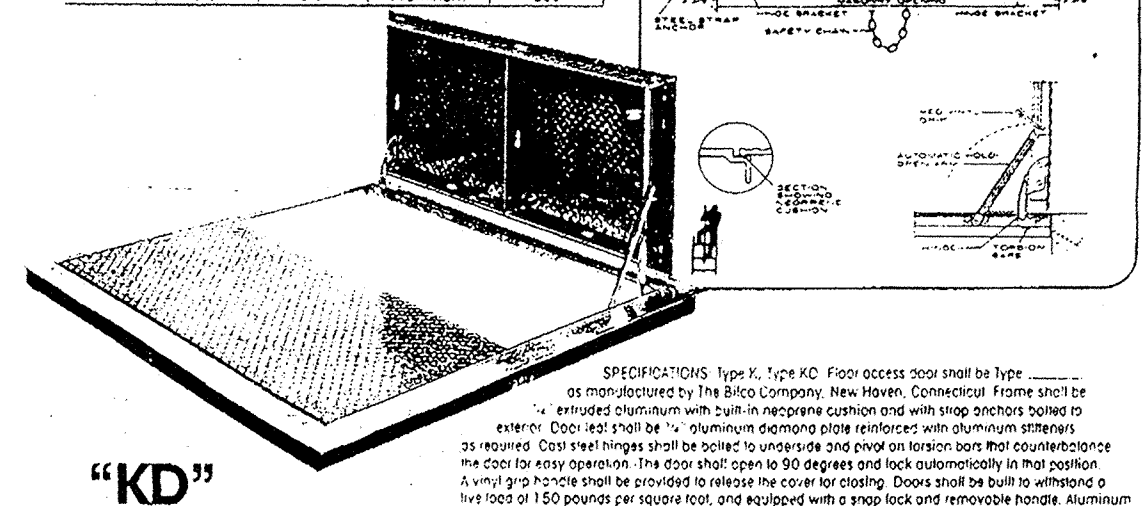
A SECTION
NO SCALE



B SECTION
NO SCALE

STANDARD SIZES AND WEIGHTS
Type K, KD

Type	Width	Length	Material	Wt. Lbs.
K-1	2.0	2.0	Aluminum	50
K-2	2.0	2.0	Aluminum	75
K-3	3.0	2.0	Aluminum	85
K-4	3.0	3.0	Aluminum	100
K-5	3.0	3.0	Aluminum	120
KD-2	4.0	4.0	Aluminum	150
KD-3	4.0	4.0	Aluminum	225
KD-4	5.0	5.0	Aluminum	230



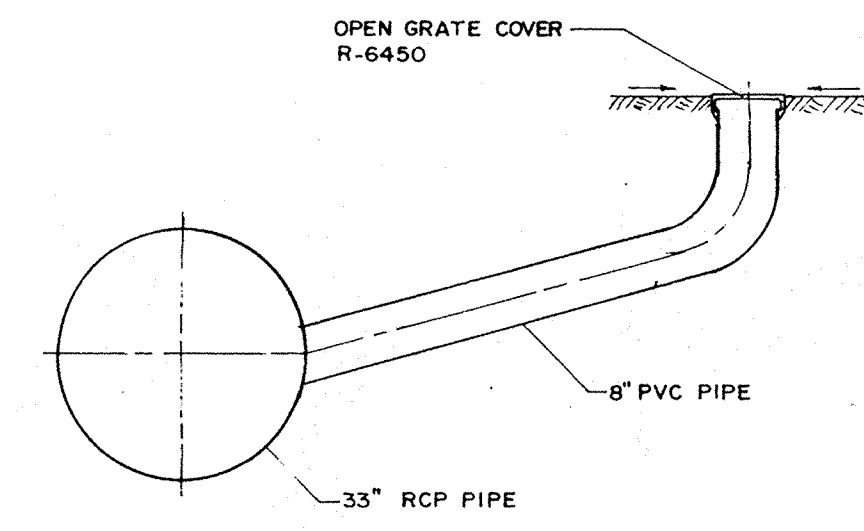
"KD"
Double Leaf Aluminum

R-6450 Series Round Frames, Solid or Grated Covers

Light Duty to Fit Bell End of Vitrified Clay Pipe
Furnished standard with ground bearing surfaces.

CAUTION: Pipe bell sizes from different manufacturers frequently vary. Check the casting dimensions with the table below to be sure the covers will fit the pipe you are using.

Catalog No.	Frame Size	Dimensions in inches								Wt. Lbs.	
		A	B	C	D	E	F	G	H		
R-6450-AL	R-6450-AG	8	9	1	8	10 1/2	12	2 1/2	Y	32	25
R-6450-AL	R-6450-BG	10	12	1	11	13	14 1/2	2 1/2	Y	41	37
R-6450-CL	R-6450-CG	12	13	1	13 1/2	14 1/2	17	2 1/2	W	50	51
R-6450-FL	R-6450-FG	15	16	1	15	16	20 1/2	2 1/2	Y	60	62
R-6450-GL	R-6450-GG	18	20 1/2	1 1/2	18	22 1/2	24	2 1/2	W	97	93
R-6450-IL	R-6450-IG	20	23 1/2	1 1/2	20	24 1/2	27	1 1/2	W	125	122
R-6450-OL	R-6450-OG	21	24	1 1/2	22	25 1/2	30	1 1/2	Y	100	102
R-6450-PL	R-6450-PG	24	26 1/2	1 1/2	25	29 1/2	31	1 1/2	Y	145	142
R-6450-QL	R-6450-QG	27	31 1/2	1 1/2	28	32 1/2	36 1/2	1 1/2	Y	185	182
R-6450-KL	R-6450-KG	30	33 1/2	1 1/2	32	35 1/2	37	1 1/2	Y	275	272



YARD DRAIN CONNECTION DETAIL



Post Construction Survey

FILED

FEB 19 1997
OFFICE OF HAMILTON COUNTY SURVEYOR

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of Indiana
consulting engineers
9245 North Meridian Street
Suite 105
Indianapolis, IN 46250-1812
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11-01-96 PER MOORE ENG.

NEW SCHOOL FOR
NOBLESVILLE HIGH SCHOOL
NOBLESVILLE SCHOOLS
NOBLESVILLE INDIANA

PROJECT NO. 91066
DATE:
DRAWN BY:
CHECKED BY:

JOB NO 92057
ADDI-SD-7