

# THE LEGENDS OF ST. ANDREWS

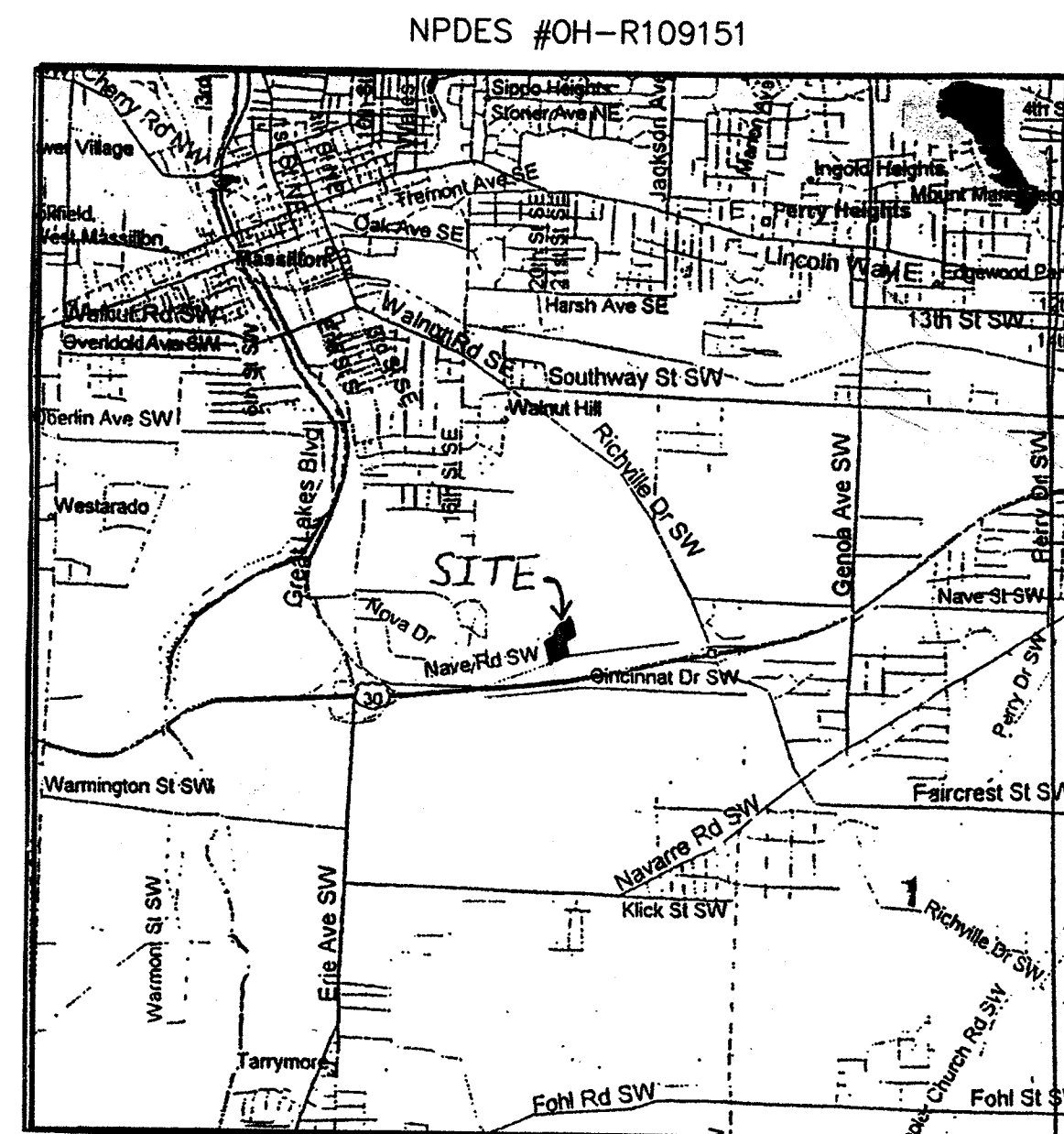
SITUATED IN THE CITY OF MASSILLON,  
COUNTY OF STARK, STATE OF OHIO  
AND BEING PART OF OUTLOTS 562 & 563

JUNE 1, 2000

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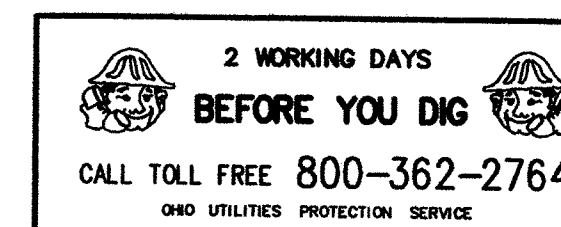
1. COVER SHEET
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4. SITE UTILITY PLAN
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7. STORMWATER POLLUTION PREVENTION DETAILS

PREPARED BY:  
HAMMONTREE & ASSOCIATES, LTD  
ENGINEERS, PLANNERS & SURVEYORS  
NORTH CANTON, OHIO

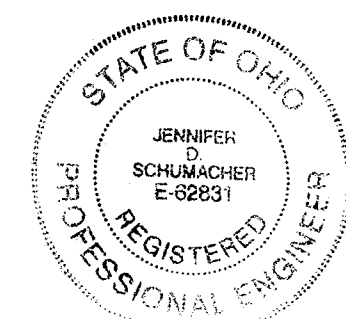


APPROVED BY:

*James J. Baker* 10/3/00  
CITY OF MASSILLON ENGINEER DATE



OWNER/DEVELOPER  
BOURLAS CONSTRUCTION  
4990 BATON ST. N.W., SUITE 4  
NORTH CANTON, OHIO 44720  
PHONE: 499-4410  
ATTN: ALEX BOURLAS



COVER SHEET  
THE LEGENDS OF ST. ANDREWS

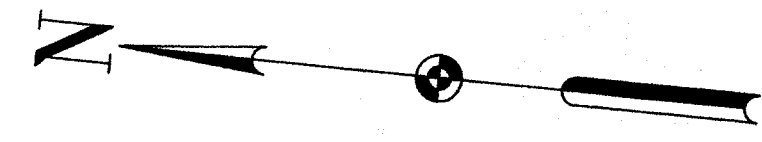
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5233 STONEHAM ROAD, NORTH CANTON, OHIO 44720  
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TOLL FREE: 1-800-364-8817 FAX: (330)/499-0149  
www.hammontree-engineers.com

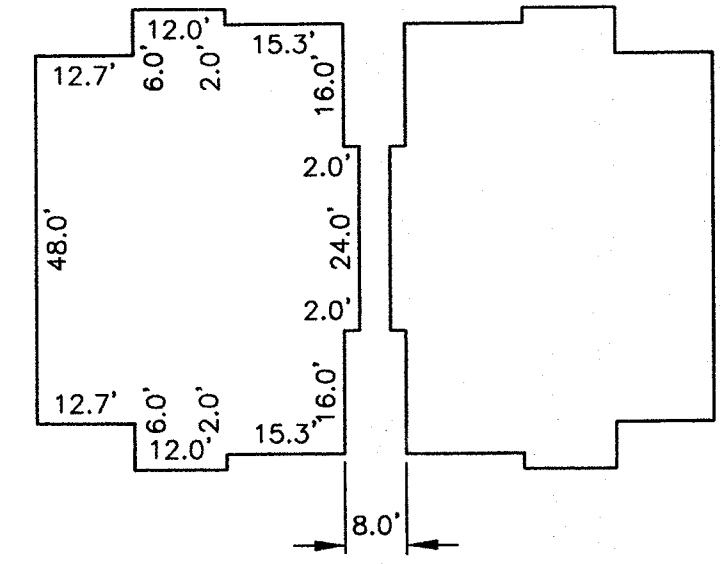
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7/1/19

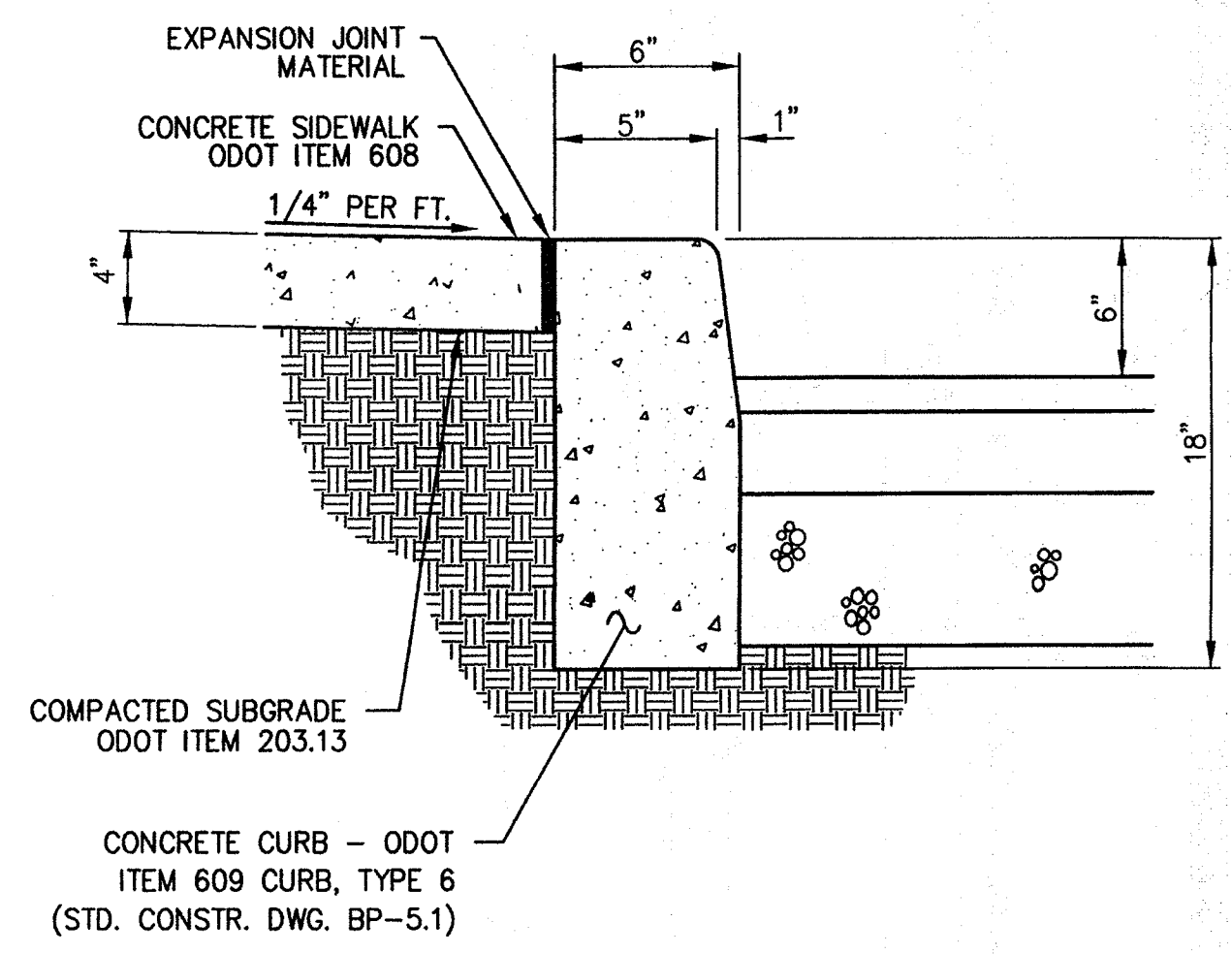
DESIGNED BY: BAK CHECKED BY: JDS  
DRAWN BY: LJP REVIEWED BY: JDS  
F.B. PAGE: 1  
COPYRIGHT: 2000 DATE: 5/30/00  
REVISION BY: BAK DATE: 8/3/00  
DESCRIPTION: GARAGE WIDTH, DET. BASIN P&P



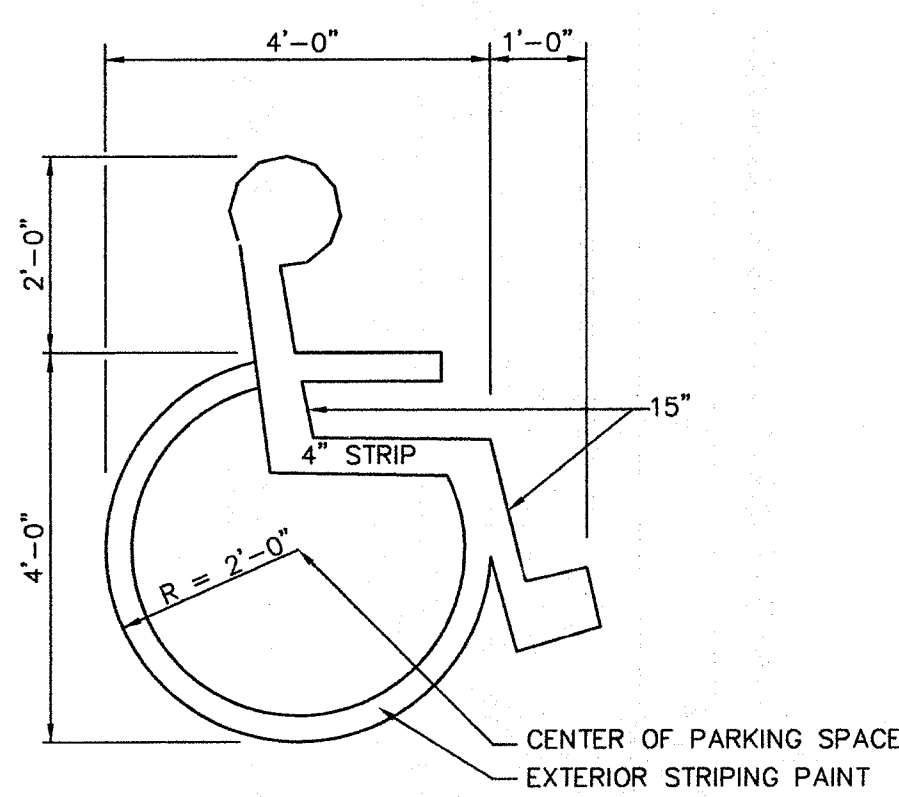
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R=474.30'  
Δ=22°39'04"  
C=186.29'  
B=S 23°24'48" E  
T=94.99'



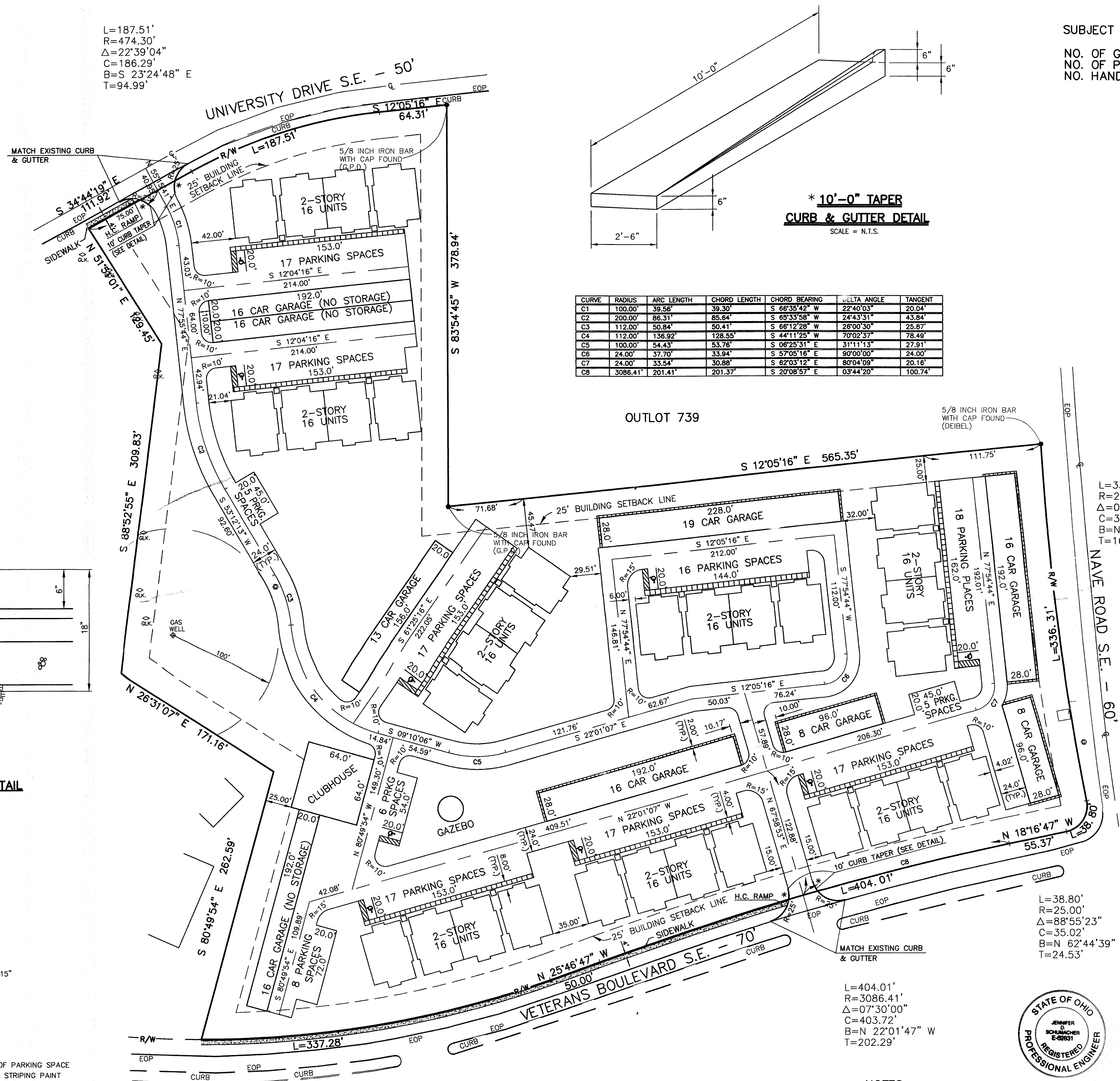
TYPICAL - ALL UNITS



CURB & SIDEWALK DETAIL  
N.T.S.

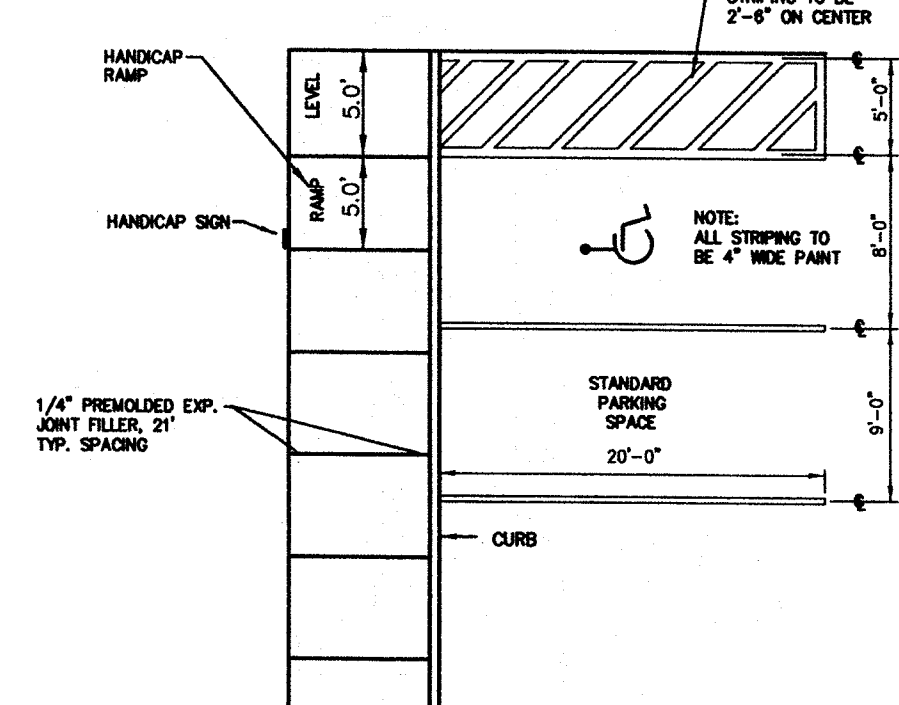


HANDICAPPED PARKING LOGO DETAIL  
N.T.S.

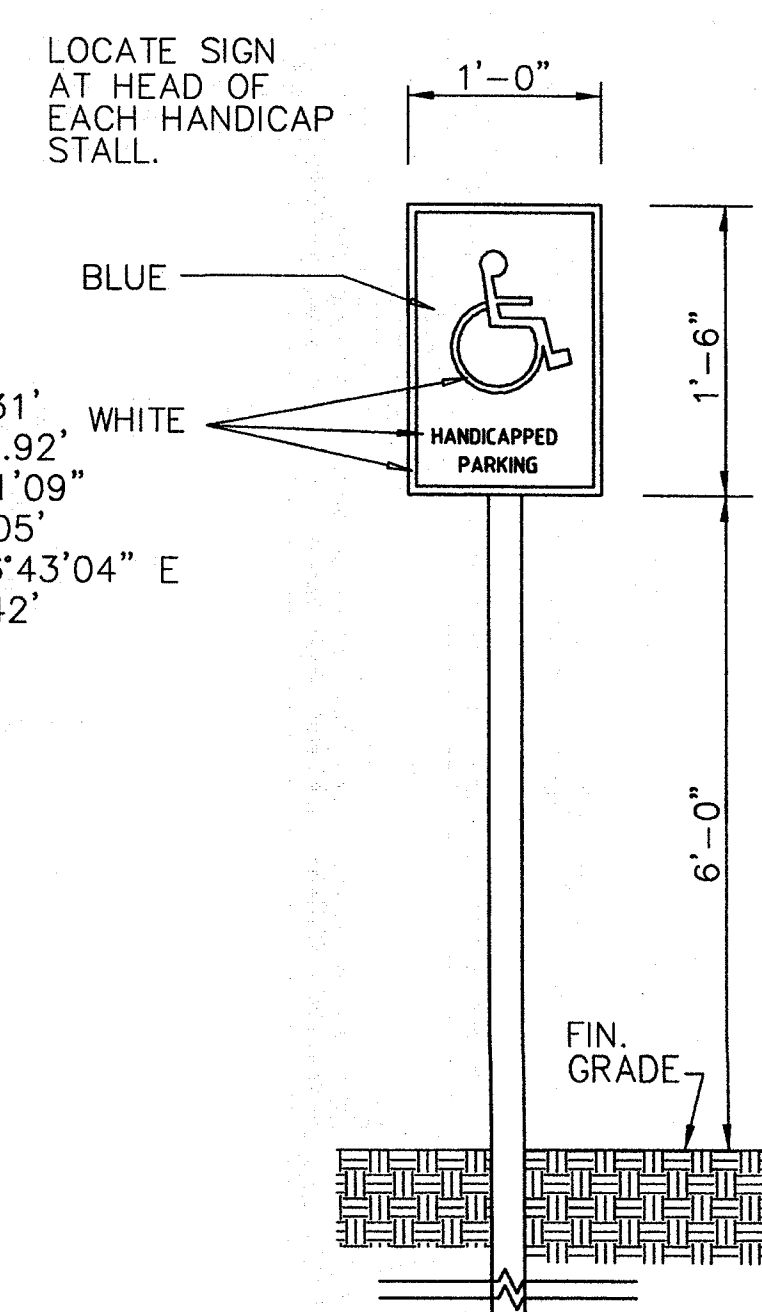


CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	100.00'	39.56'	39.30'	S 66°35'42" W	22°40'03"	20.04'
C2	200.00'	86.31'	85.64'	S 65°33'58" W	24°43'31"	43.84'
C3	112.00'	50.84'	50.41'	S 66°12'28" W	26°00'30"	25.87'
C4	112.00'	136.92'	128.55'	S 44°11'25" W	70°02'37"	78.49'
C5	100.00'	54.43'	53.78'	S 06°25'31" E	31°11'13"	27.91'
C6	24.00'	37.70'	33.94'	S 57°05'16" E	90°00'00"	24.00'
C7	24.00'	33.54'	30.88'	S 62°03'12" E	80°04'09"	20.16'
C8	3086.41'	201.41'	201.37'	S 20°08'57" E	03°44'20"	100.74'

\* 10'-0" TAPER  
CURB & GUTTER DETAIL  
SCALE = N.T.S.

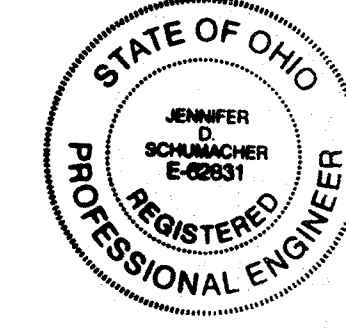


HANDICAPPED PARKING SPACE MARKING DETAIL  
SCALE = N.T.S.

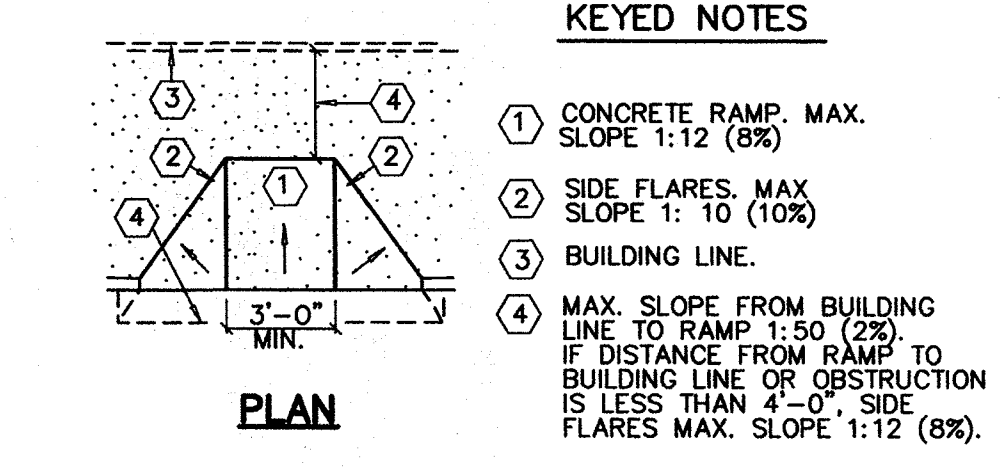


HANDICAPPED PARKING SIGN  
N.T.S.

L=38.80'  
R=25.00'  
Δ=88°55'23"  
C=35.02'  
B=N 62°44'39" W  
T=24.53'



NOTES:  
UTILITY LOCATIONS SHOWN HEREON WERE COMPILED FROM PLAN INFORMATION AND/OR FIELD LOCATION OF SURFACE UTILITY STRUCTURES. EXACT LOCATIONS OF UNDERGROUND UTILITIES ARE UNKNOWN.  
BOUNDARY FROM THE VILLAS OF ST. ANDREWS SITE PLAN BY W.G. LOCKHART CONSTRUCTION CO. DATED 1/5/98.  
BOUNDARY NOT RESURVEYED.

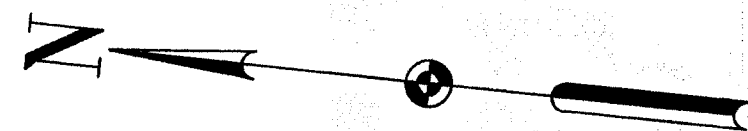


ELEVATION  
HANDICAPPED RAMP DETAIL WITHIN R/W  
N.T.S.  
RAMP TO COMPLY WITH ALL ADA CODES.

SCALE: 1" = 50'  
0 25 50 100

SUBJECT PROPERTY ZONED: RM-1  
NO. OF GARAGES = 128 (12'X28')  
NO. OF PARKING SPACES = 160 (9'X20')  
NO. HANDICAPPED SPACES = 9 (8'X20', 5'X20' STRIP)

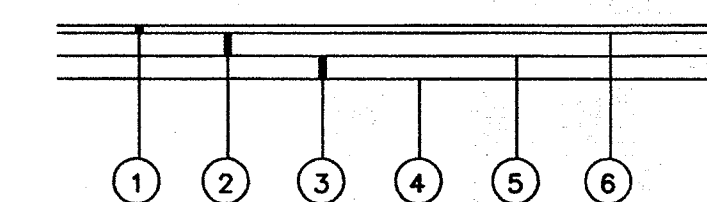
DESIGNED BY: BAK	CHECKED BY: JDS	DATE: 8/3/00	DESCRIPTION: GARAGE WIDTH, ADDED H.C. POST
DRAWN BY: LUP	REVIEWED BY: JDS	DATE: 5/30/00	DESCRIPTION: GARAGE WIDTH, ADDED H.C. POST
F.B. 421 PAGE 34			
COPYRIGHT: 2000 DATE: 5/30/00			
SITE DIMENSION PLAN			
THE LEGENDS OF ST. ANDREWS			
10.53 ACRES			
SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, OHIO			
BEING PART OF OUTLOTS 562 & 563			
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### LEGEND

- R/W — RIGHT-OF-WAY
- W — WATER LINE
- S — SANITARY SEWER LINE
- ST — STORM SEWER LINE
- G — GAS LINE
- UE — UNDERGROUND ELECTRIC
- OE — OVERHEAD ELECTRIC
- UT — UNDERGROUND TELEPHONE
- OT — OVERHEAD TELEPHONE
- OE&T — OVERHEAD ELEC. & TELE.
- X — CHAINLINK FENCE
- — PROPERTY MARKER FOUND AS NOTED
- — 1/2 INCH IRON BAR WITH H&A CAP SET
- — GAS LINE MARKER
- — WATER LINE MARKER
- — POWER POLE
- — GENERAL POLE
- — LIGHT POLE
- — ANCHOR
- — SIGN
- — CATCH BASIN (C.B.)
- — MAN HOLE (AS LABELED)
- — TRAFFIC CONTROL BOX
- — FIRE HYDRANT
- — VALVE
- EOP — EDGE OF PAVEMENT
- — SPOT ELEV. TOP & BOTTOM OF CURB
- — SPOT ELEV. EDGE OF PAVEMENT
- — SEDIMENT TRAP (SEE SHEET 7)



- 1) ITEM 404 1" ASPHALT CONCRETE
- 2) ITEM 301 3" BITUMINOUS AGGREGATE BASE
- 3) ITEM 304 6" AGGREGATE BASE (2-3" LIFTS)
- 4) ITEM 203.13 COMPACTED SUBGRADE
- 5) ITEM 408 PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.
- 6) ITEM 407 TACK COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.

ALL ITEMS FROM STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JAN. 1, 1997.

### ASPHALT PAVEMENT SECTION DETAIL

NTS

### SITE INFORMATION

SITE DESCRIPTION — EXISTING — GRASSY HILLS  
PROPOSED — APARTMENT COMPLEX

TOTAL AREA OF SITE — 10.53 AC.  
AREA OF SITE TO UNDERGO EXCAVATION — 10.53 AC.  
PHASE I EXCAVATION — 2.01 AC.

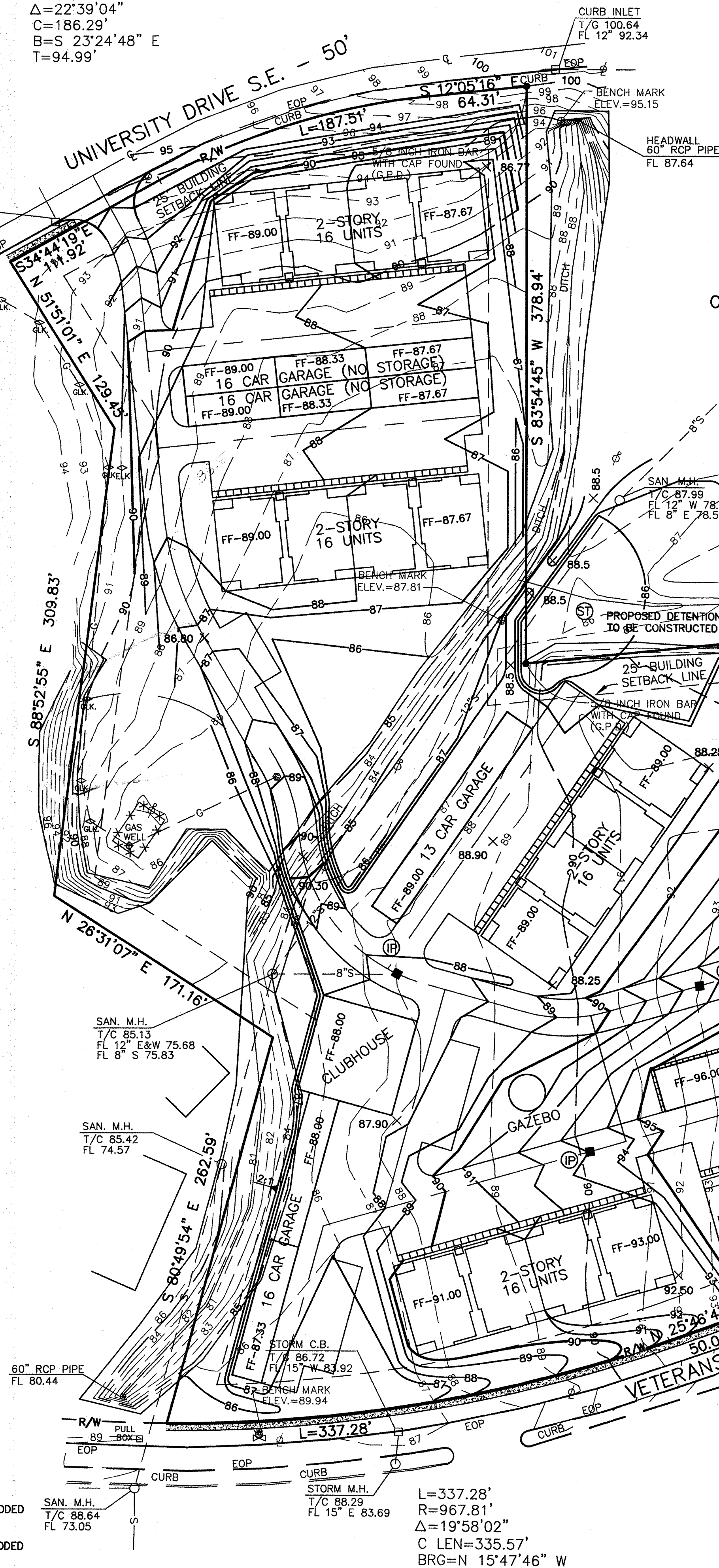
PRE-CONSTRUCTION RUNOFF COEFFICIENT — 0.30  
POST-CONSTRUCTION RUNOFF COEFFICIENT — 0.60

SCHEDULE OF MAJOR CONSTRUCTION  
COMMENCEMENT — SUMMER 2000  
COMPLETION — SUMMER 2001

RECEIVING STREAM AND SURFACE WATERS  
UNNAMED TRIBUTARY TO THE TUSCARAWAS RIVER

#### EXISTING SOILS ON SITE

- Cd8 CANFIELD SILT LOAM, 2 TO 6 PERCENT SLOPES
- Cd9 CANFIELD SILT LOAM, 6 TO 12 PERCENT SLOPES
- Cd02 CANFIELD SILT LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED
- FcA FITCHVILLE SILT LOAM, 0 TO 2 PERCENT SLOPES
- Re8 RAVENNA SILT LOAM, 2 TO 6 PERCENT SLOPES
- Wd2 WOOSTER SILT LOAM, 12 TO 18 PERCENT SLOPES, MODERATELY ERODED



OUTLOT 739

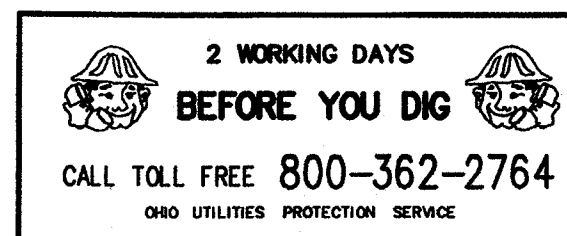
### EROSION CONTROL NOTES

1. ALL SEDIMENT PONDS AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE RESTABILIZED.
2. SILT FENCES ARE TO BE CONSTRUCTED IN FRONT OF ALL STORM INLETS, HEADWALLS AND PIPE OUTLETS.
3. SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL FILL AREAS. AFTER 15 DAYS, TEMPORARY SEEDING WILL BE REQUIRED ON ALL FILL AREAS.
4. TEMPORARY SEEDING SHALL CONSIST OF 3-5 POUNDS OF RYE GRASS PER 1000 SQUARE FEET.
5. TOPSOIL STOCKPILES TO BE ENCIRCLED BY SILT FENCE AND/OR TEMPORARY SEEDING.
6. OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
7. REGULAR INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A COPY OF THE SOIL EROSION CONTROL PLAN SHOULD BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
8. ALL EROSION CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES, RAINWATER AND LAND DEVELOPMENT MANUAL, SECOND EDITION, 1996.
9. AT THE END OF EACH DAY THE CONTRACTOR SHALL CLEAN EXISTING ROADWAYS OF MATERIALS (SOIL, MUD ETC.) WHICH WERE DEPOSITED DUE TO THE CONSTRUCTION OF THE PROJECT. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED AT ALL POINTS WHERE TRAFFIC ENTERS AND LEAVES THE CONSTRUCTION SITE.
10. RUNOFF WATER CARRYING SEDIMENT SHALL NOT BE PERMITTED TO FLOW ON TO ANY ADJACENT PROPERTIES OR ON TO ADJACENT PUBLIC RIGHT OF WAYS. ALL OFF SITE AND ON SITE EROSION AND SEDIMENT DAMAGE SHALL BE THE TOTAL RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND SHALL BE CORRECTED IMMEDIATELY.
11. CONTRACTOR TO INSTALL FILTER FABRIC FENCE AT VARIOUS LOCATIONS ON THE PROPERTY AS SHOWN.
12. SOIL EROSION CONTROL STRUCTURES SHALL BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 1/2" OR GREATER RAINFALL. THE CONTRACTOR SHALL KEEP A WRITTEN LOG OF ALL INSPECTIONS AND DOCUMENT CORRECTIVE ACTIONS.
13. DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 45 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS.
14. EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5%.
15. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
16. CONTRACTOR TO REFER TO SANITARY SEWER NOTES 15 & 16 ON SHEET 4 FOR SOIL EROSION CONTROL DURING SANITARY SEWER CONSTRUCTION.

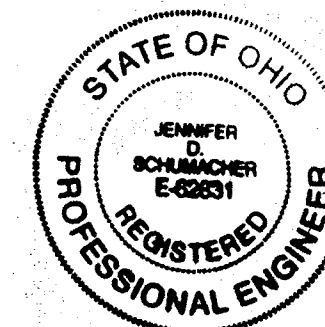
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C=336.05'  
B=N 76°43'04" E  
T=168.42'

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R=25.00'  
Δ=88°55'23"  
C=35.02'  
B=N 62°44'39" W  
T=24.53'

L=404.01'  
R=3086.41'  
Δ=07°30'00"  
C=403.72'  
B=N 22°01'47" W  
T=202.29'



SCALE: 1" = 50'  
0 25 50 100



### NOTES:

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BOUNDARY FROM THE VILLAS OF ST. ANDREWS SITE PLAN BY W.G. LOCKHART CONSTRUCTION CO. DATED 1/5/98.  
BOUNDARY NOT RESERVED.

CONTOUR INTERVAL = 1 FOOT

### BENCHMARKS:

"1" CHISELED IN NORTHWEST CORNER OF HEADWALL 40± WEST OF THE CENTERLINE OF UNIVERSITY DRIVE S.E. AND 800± NORTH NAVE ROAD S.E.  
ELEVATION = 95.15  
"X" CHISELED IN NORTH FLANGE OF FIRE HYDRANT BOLT ON EAST SIDE OF VETERANS BOULEVARD S.E. 800± NORTH NAVE ROAD S.E.  
ELEVATION = 89.94

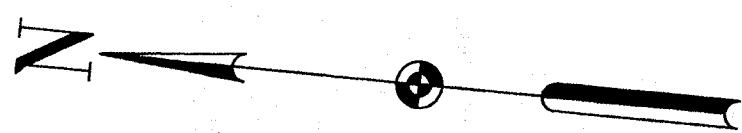
"X" CHISELED IN NORTH FLANGE OF FIRE HYDRANT BOLT ON EAST SIDE OF VETERANS BOULEVARD S.E. 400± NORTH NAVE ROAD S.E.  
ELEVATION = 101.53

SITE GRADING & STORMWATER POLLUTION PREVENTION PLAN  
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10.53 ACRES  
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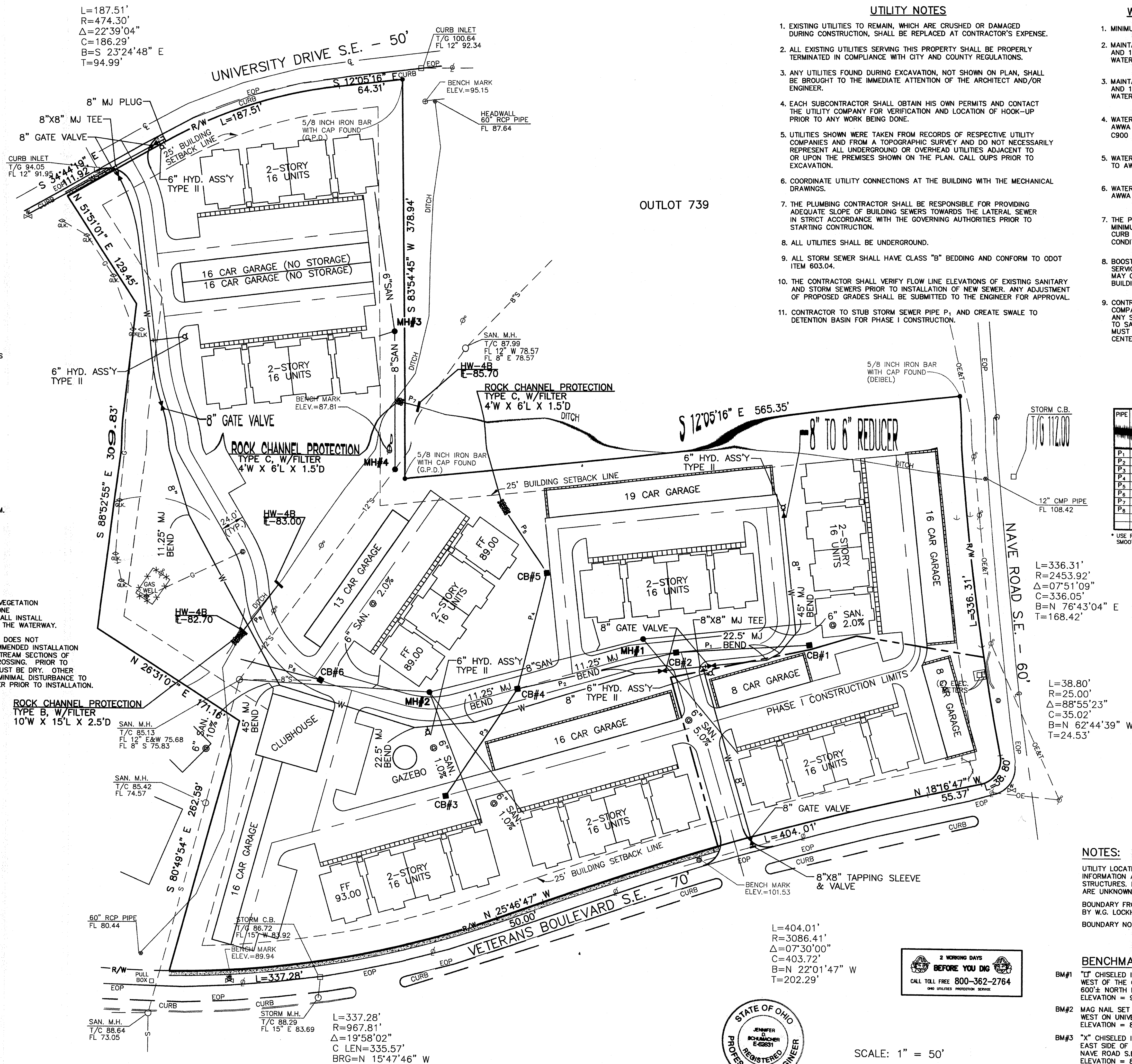


3  
7



### SANITARY SEWER NOTES

- ALL SANITARY SEWERS & APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS IN EFFECT AT TIME OF CONSTRUCTION.
- ALL SANITARY SEWER LATERALS TO BE 6" DIAMETER.
- ROOF DRAINS, FOUNDATION DRAINS & OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- MINIMUM COVER OVER SANITARY SEWER SHALL BE 3 FT.
- SANITARY LATERALS SHALL EXTEND TO THE RIGHT-OF-WAY LINE OR BEYOND THE FURTHEST UTILITY - WHICHEVER IS GREATER. THE END OF THE SERVICE LATERAL SHALL BE PLUGGED AND A LOCATION MARKER PROVIDED.
- NO CHANGES TO SANITARY SERVICE LOCATIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE CITY ENGINEER.
- PVC GRAVITY SEWER PIPE SHALL CONFORM TO ASTM D-3034 AS AN ALTERNATE TO PVC GRAVITY SEWER, SHOWN IN QUANTITIES VITRIFIED CLAY PIPE SEWER, EXTRA STRENGTH, ASTM C-700 MAY BE USED.
- MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER & WATERLINE IS 18 INCHES. MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER & STORM SEWER IS 12 INCHES.
- JOINT SPECIFICATIONS SHALL MEET ASTM-3212
- MANHOLE SPECIFICATIONS SHALL MEET ASTM C-478 AND C-443
- BEDDING SPECIFICATIONS SHALL MEET ASTM D-2321, CLASS II
- LEAKAGE TEST LIMITS: 100 GAL./INCH OF DIA./MILE/DAY MAXIMUM.
- ALL MANHOLES SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH ASTM C-1244.
- PIPE DEFLECTION TESTS SHALL BE PERFORMED ACCORDING TO CLUMRB SECTION 33.85 AND THE ASTM SPECIFICATION FOR THE PIPE BEING TESTED. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED 5%.
- CONTRACTOR SHALL MAINTAIN A BUFFER ZONE OF UNDISTURBED VEGETATION BETWEEN THE WORK AREA AND THE WATERWAY. IF A BUFFER ZONE CANNOT BE MAINTAINED OR IS INADEQUATE, THE CONTRACTOR SHALL INSTALL FILTER BARRIERS TO PREVENT RUNOFF CARRYING SEDIMENT FROM THE WATERWAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT WATER DOES NOT ENTER THE EXCAVATION AREA FOR THE CREEK CROSSING. RECOMMENDED INSTALLATION PROCEDURE IS TO TEMPORARILY DAM THE UPSTREAM AND DOWNSTREAM SECTIONS OF THE CREEK, AND USE A PUMP TO DIVERT WATER AROUND THE CROSSING. PRIOR TO INSTALLATION OF ANY BEDDING MATERIAL, THE CROSSING AREA MUST BE DRY. OTHER TECHNIQUES TO ENSURE THAT THE CROSSING IS INSTALLED WITH MINIMAL DISTURBANCE TO THE NATURAL STREAM FLOW MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- SEE SHEET 5 FOR SANITARY SEWER PLAN & PROFILE.



### UTILITY NOTES

- EXISTING UTILITIES TO REMAIN, WHICH ARE CRUSHED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- ALL EXISTING UTILITIES SERVING THIS PROPERTY SHALL BE PROPERLY TERMINATED IN COMPLIANCE WITH CITY AND COUNTY REGULATIONS.
- ANY UTILITIES FOUND DURING EXCAVATION, NOT SHOWN ON PLAN, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND/OR ENGINEER.
- EACH SUBCONTRACTOR SHALL OBTAIN HIS OWN PERMITS AND CONTACT THE UTILITY COMPANY FOR VERIFICATION AND LOCATION OF HOOK-UP PRIOR TO ANY WORK BEING DONE.
- UTILITIES SHOWN WERE TAKEN FROM RECORDS OF RESPECTIVE UTILITY COMPANIES AND FROM A TOPOGRAPHIC SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND OR OVERHEAD UTILITIES ADJACENT TO OR UPON THE PREMISES SHOWN ON THE PLAN. CALL OUPS PRIOR TO EXCAVATION.
- COORDINATE UTILITY CONNECTIONS AT THE BUILDING WITH THE MECHANICAL DRAWINGS.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE OF BUILDING SEWERS TOWARDS THE LATERAL SEWER IN STRICT ACCORDANCE WITH THE GOVERNING AUTHORITIES PRIOR TO STARTING CONSTRUCTION.
- ALL UTILITIES SHALL BE UNDERGROUND.
- ALL STORM SEWER SHALL HAVE CLASS "B" BEDDING AND CONFORM TO ODOT ITEM 603.04.
- THE CONTRACTOR SHALL VERIFY FLOW LINE ELEVATIONS OF EXISTING SANITARY AND STORM SEWERS PRIOR TO INSTALLATION OF NEW SEWER. ANY ADJUSTMENT OF PROPOSED GRADES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- CONTRACTOR TO STUB STORM SEWER PIPE P<sub>1</sub> AND CREATE SWALE TO DETENTION BASIN FOR PHASE I CONSTRUCTION.

### WATER LINE NOTES

- MINIMUM COVER OVER 8" WATER LINE = 4.5'.
- MAINTAIN MINIMUM 4' HORIZONTAL SEPARATION BETWEEN WATER AND STORM SEWER LINES.
- MAINTAIN MINIMUM 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER LINES.
- WATER MAIN MATERIALS SHALL CONFORM TO AWWA C151 FOR DUCTILE IRON PIPE AND AWWA C900 FOR PVC PIPE.
- WATER MAIN PRESSURE TESTING SHALL CONFORM TO AWWA C600.
- WATER MAIN DISINFECTION SHALL CONFORM TO AWWA C651.
- THE PROPOSED FACILITIES WILL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE WATER SYSTEM MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES OR HIGHER.
- CONTRACTOR TO USE CONSUMERS OHIO WATER COMPANY STANDARDS AND SPECIFICATIONS. ANY SITUATION REQUIRING A MODIFICATION TO SAID STANDARDS AND SPECIFICATIONS MUST FIRST BE APPROVED BY COWWC SERVICE CENTER ENGINEERING DEPARTMENT.

### PIPE CHART

PIPE SIZE	TYPE	LENGTH	GRADE	E IN	E OUT
P <sub>1</sub> 12"	B	135'	2.22%	96.25	93.25
P <sub>2</sub> 12"	B	165'	2.42%	93.25	89.59
P <sub>3</sub> 12"	B	131'	0.57%	90.25	89.59
P <sub>4</sub> 15"	B	121'	0.83%	89.32	88.32
P <sub>5</sub> 15"	C	70'	1.80%	88.32	87.06
P <sub>6</sub> 12"	B	83'	0.5%	84.65	84.23
P <sub>7</sub> 15"	C	16'	1.25%	85.70	85.50
P <sub>8</sub> 60"	B	60'	0.5%	83.00	82.70

\* USE R.C.P. (705.02), CORRUGATED POLYETHYLENE SMOOTH LINED PIPE (707.33) OR APPROVED EQUAL.

### CATCH BASIN CHART

NUMBER	TYPE	T/G
1	2-2-B	99.00
2	2-2-B	98.00
3	2-2-B	93.00
4	2-2-B	92.60
5	2-2-B	91.50
6	2-2-B	86.80

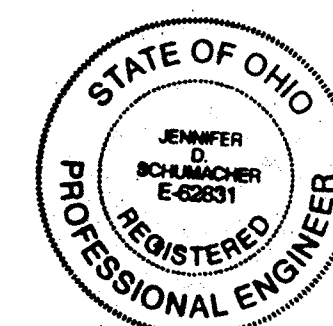
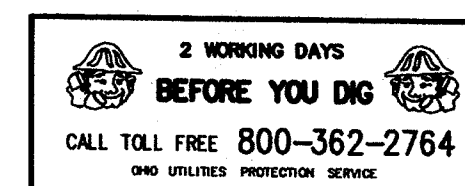
\* USE EAST JORDAN 5110 TYPE M4 FLAT GRATE OR APPROVED EQUAL.

### NOTES:

UTILITY LOCATIONS SHOWN HEREON WERE COMPILED FROM PLAN INFORMATION AND/OR FIELD LOCATION OF SURFACE UTILITY STRUCTURES. EXACT LOCATIONS OF UNDERGROUND UTILITIES ARE UNKNOWN.  
BOUNDARY FROM THE VILLAS OF ST. ANDREWS SITE PLAN BY W.G. LOCKHART CONSTRUCTION CO. DATED 1/5/98.  
BOUNDARY NOT RESURVEYED.

### BENCHMARKS:

- BM#1 "I" CHISELED IN NORTHWEST CORNER OF HEADWALL 40'± WEST OF THE CENTERLINE OF UNIVERSITY DRIVE S.E. AND 600'± NORTH NAVE ROAD S.E. ELEVATION = 95.15
- BM#2 MAG NAIL SET 2'± UP SOUTH SIDE OF POWER POLE 400'± WEST ON UNIVERSITY DRIVE. ELEVATION = 87.81
- BM#3 "X" CHISELED IN NORTH FLANGE OF FIRE HYDRANT BOLT ON EAST SIDE OF VETERANS BOULEVARD S.E. 800'± NORTH NAVE ROAD S.E. ELEVATION = 89.94
- BM#4 "X" CHISELED IN NORTH FLANGE OF FIRE HYDRANT BOLT ON EAST SIDE OF VETERANS BOULEVARD S.E. 400'± NORTH NAVE ROAD S.E. ELEVATION = 101.53



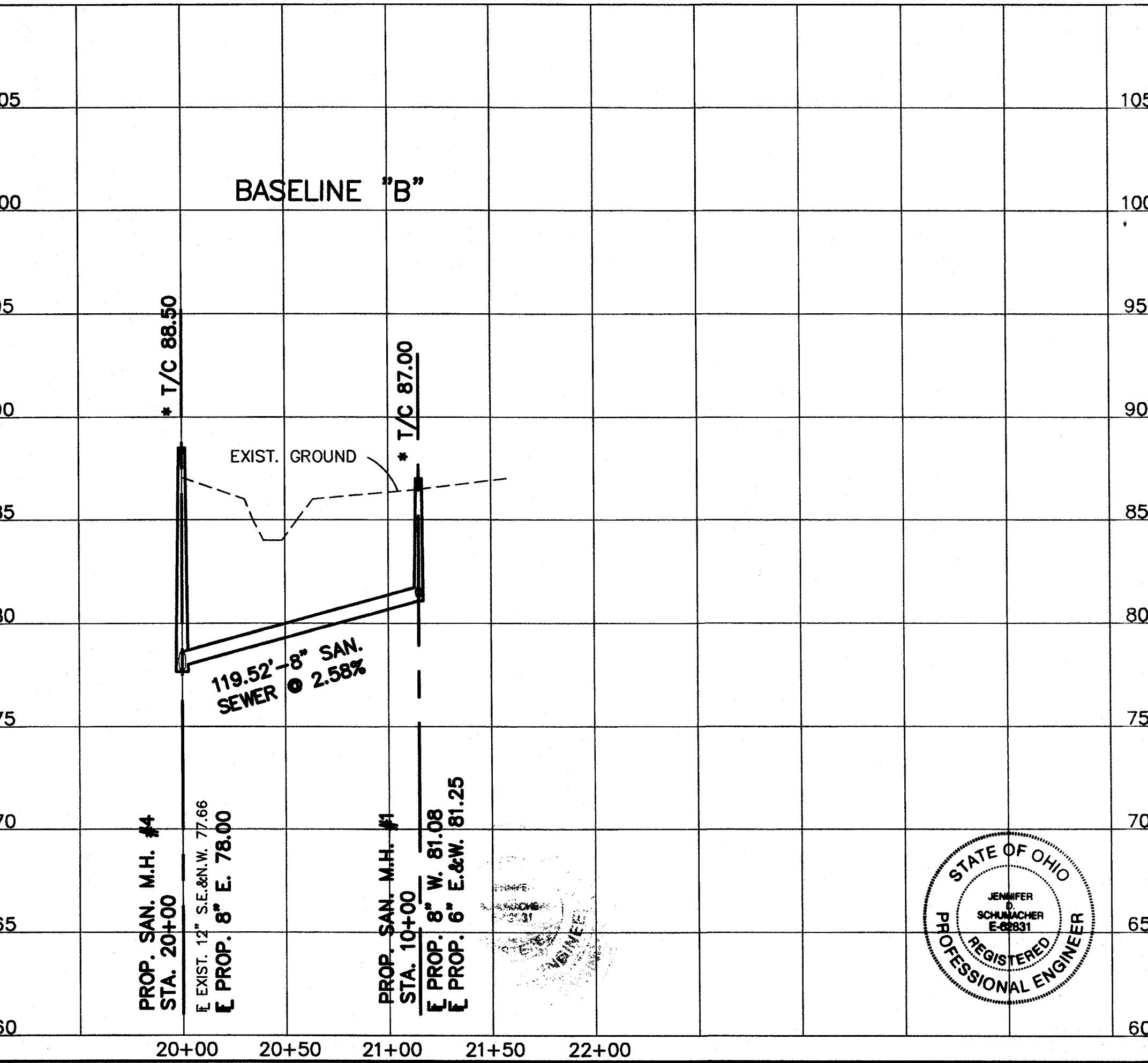
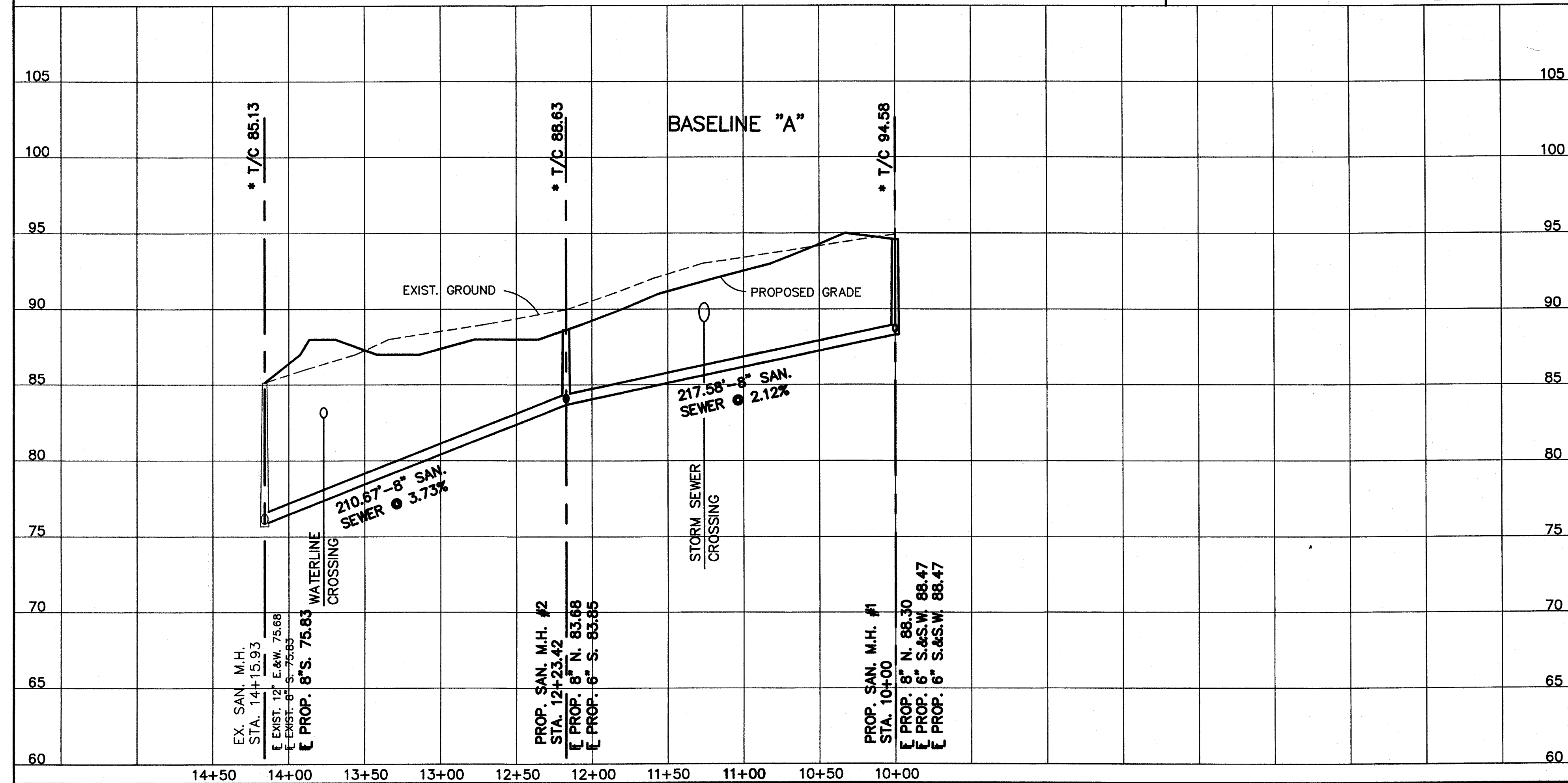
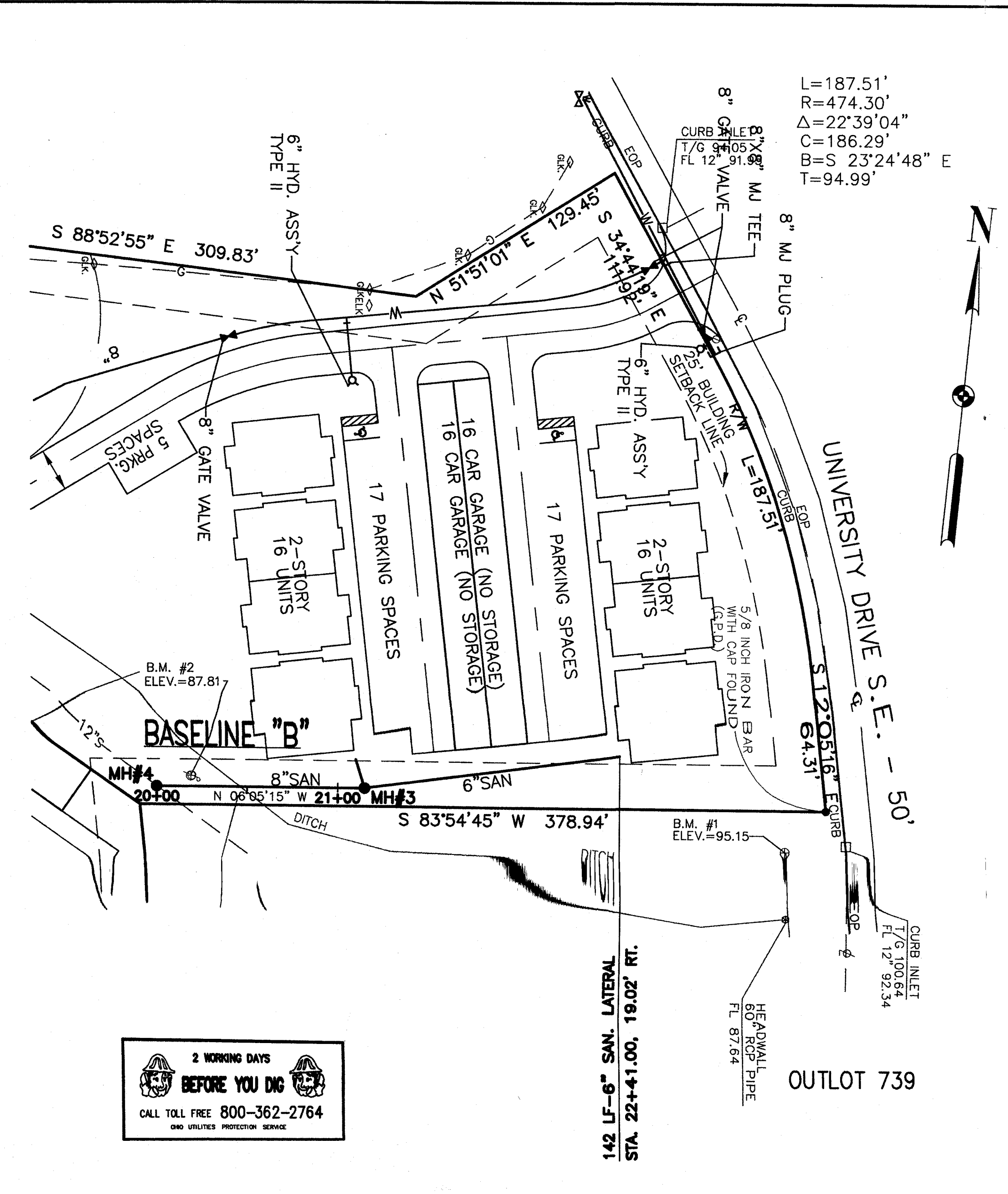
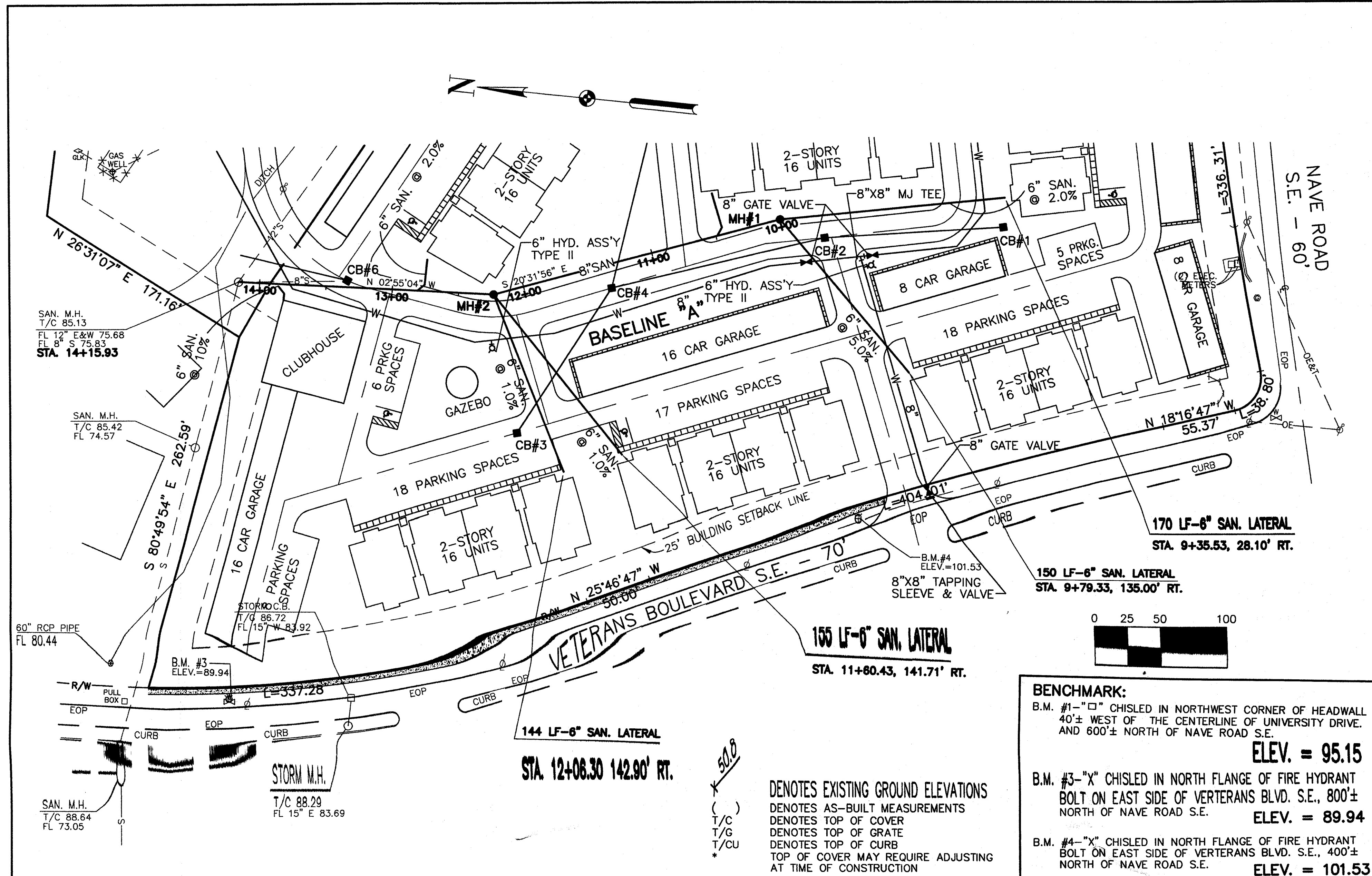
SCALE: 1" = 50'

0 25 50 100

THE LEGENDS OF ST. ANDREWS

10.53 ACRES  
SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, OHIO  
BEING PART OF OUTLOTS 562 & 563

© HAMMONTREE & ASSOCIATES, LTD.  
ENGINEERS, PLANNERS, SURVEYORS  
CANTON PITTSBURGH ARRON  
5233 STONEHAM ROAD, NORTH CANTON, OHIO 44720  
PHONE: CANTON (330)/489-8817 ARRON (330)/633-7274  
TOLL FREE: 1-800-384-8817 FAX: (330)/489-0149



DESIGN: JDS  
CHECKED BY: JDS  
REVISION BY: JDS  
DATE: 5/30/00

DRAWN BY: KMH  
REVIEWED BY: JDS  
DATE: 5/30/00

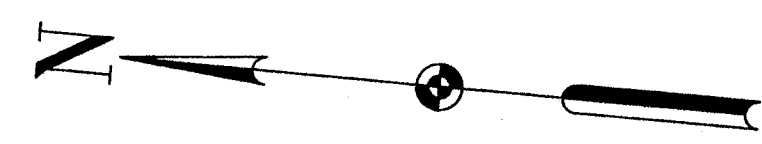
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SCALE: 1"=50'  
HORIZ: 1"=50'  
VERT: 1"=5'

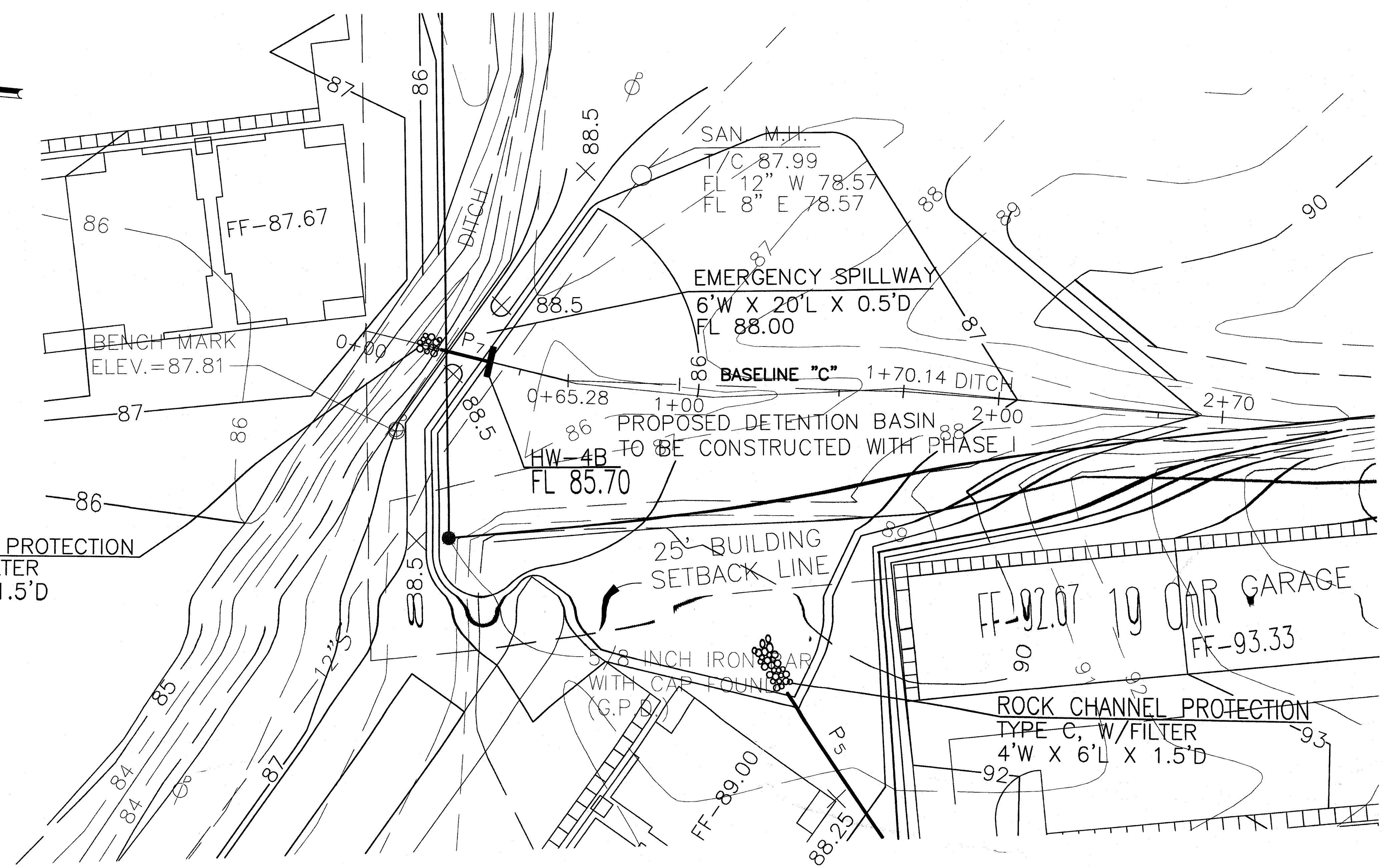
PLAN & PROFILE  
THE LEGENDS OF ST. ANDREWS  
10.53 ACRES  
SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, OHIO  
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STATE OF OHIO  
JENNIFER SCHMIDT  
REGISTERED PROFESSIONAL ENGINEER  
E-98931

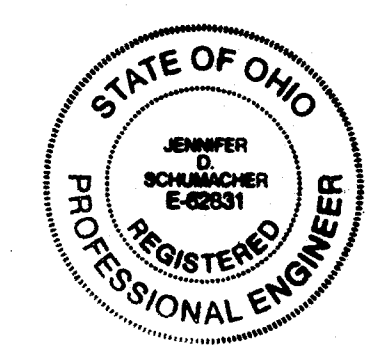
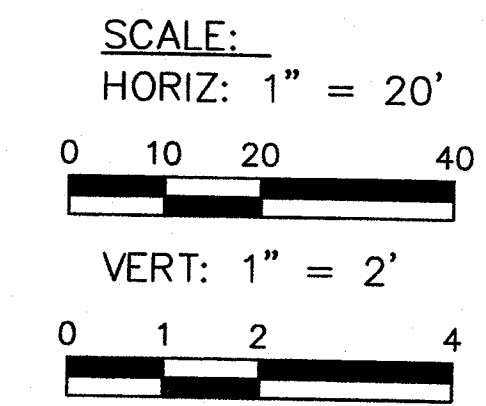
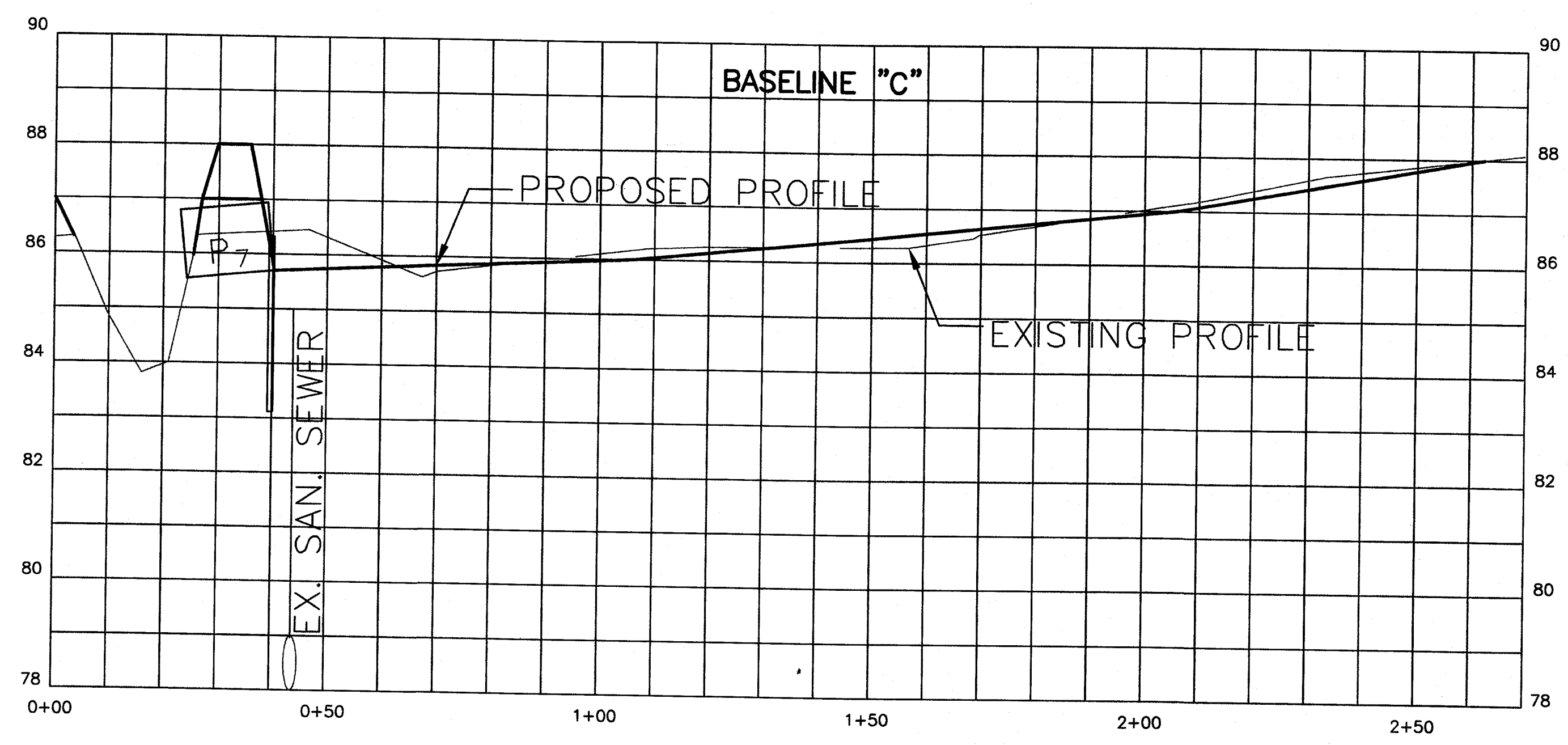


ROCK CHANNEL PROTECTION  
TYPE C, W/FILTER  
4'W X 6'L X 1.5'D



LEGEND

- R/W- RIGHT-OF-WAY
- W- WATER LINE
- S- SANITARY SEWER LINE
- ST- STORM SEWER LINE
- G- GAS LINE
- UE- UNDERGROUND ELECTRIC
- OE- OVERHEAD ELECTRIC
- UT- UNDERGROUND TELEPHONE
- OT- OVERHEAD TELEPHONE
- OE&T- OVERHEAD ELEC. & TELE.
- X-X- CHAINLINK FENCE
- PROPERTY MARKER FOUND AS NOTED
- 1/2" IRON BAR WITH H&A CAP SET
- GAS LINE MARKER
- WATER LINE MARKER
- POWER POLE
- GENERAL POLE
- LIGHT POLE
- ANCHOR
- SIGN
- CATCH BASIN (C.B.)
- MAN HOLE (AS LABELED)
- TRAFFIC CONTROL BOX
- FIRE HYDRANT
- VALVE
- EOP EDGE OF PAVEMENT
- SPOT ELEV. TOP & BOTTOM OF CURB
- SPOT ELEV. EDGE OF PAVEMENT



**NOTES:**  
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BOUNDARY FROM THE VILLAS OF ST. ANDREWS SITE PLAN BY W.G. LOCKHART CONSTRUCTION CO. DATED 1/5/98.  
BOUNDARY NOT RESURVEYED.  
CONTOUR INTERVAL = 1 FOOT

**BENCHMARKS:**  
"I" CHISELED IN NORTHWEST CORNER OF HEADWALL 40'± WEST OF THE CENTERLINE OF UNIVERSITY DRIVE S.E. AND 600'± NORTH NAVE ROAD S.E.  
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DESIGNED BY: BAK CHECKED BY: JDS  
DRAWN BY: BAK REVIEWED BY: JDS  
F.B. 421 PAGE: 34  
COPYRIGHT: 2000 DATE: 8/3/00  
SCALE:  
HORIZ: 1"=20'  
VERT: 1"=2'

DETENTION BASIN PLAN & PROFILE  
THE LEGENDS OF ST. ANDREWS  
10.53 ACRES  
SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, OHIO  
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6  
7

- | MAINTENANCE FOR PERMANENT SEEDINGS<br>FERTILIZATION AND MOWINGABLE. |          |         |                              |  |                          |
|---|----------|---------|------------------------------|--|--------------------------|
| MIXTURE   | FORMULA  | LB./AC. | LB./1,000<br>FT <sup>2</sup> | TIME   | MOWING                   |
| CREeping RED FESCUE<br>RYEGRASS<br>KENTUCKY BLUEGRASS               | 10-10-10 | 500     | 12                           | FALL,<br>YEARLY OR<br>AS NEEDED.   | NOT<br>CLOSER<br>THAN 3" |
| TALL FESCUE   | 10-10-10 | 500     | 12                           |  | NOT<br>CLOSER<br>THAN 4" |
| DWARF FESCUE  | 10-10-10 | 500     | 12                           |  | NOT<br>CLOSER<br>THAN 2" |
| CROWN VETCH<br>FESCUE   | 0-20-20  | 400     | 10                           | SPRING,<br>YEARLY<br>FOLLOWING<br>ESTABLISH-<br>MENT AND<br>EVERY 4-7<br>YR.<br>THEREAFTER | DO NOT<br>MOW            |
| FLAT PEA<br>FESCUE  | 0-20-20  | 400     | 10                           |  | DO NOT<br>MOW            |
- NOTE: FOLLOWING SOIL TEST RECOMMENDATIONS IS PREFERRED TO FERTILIZER RATES SHOWN ABOVE.

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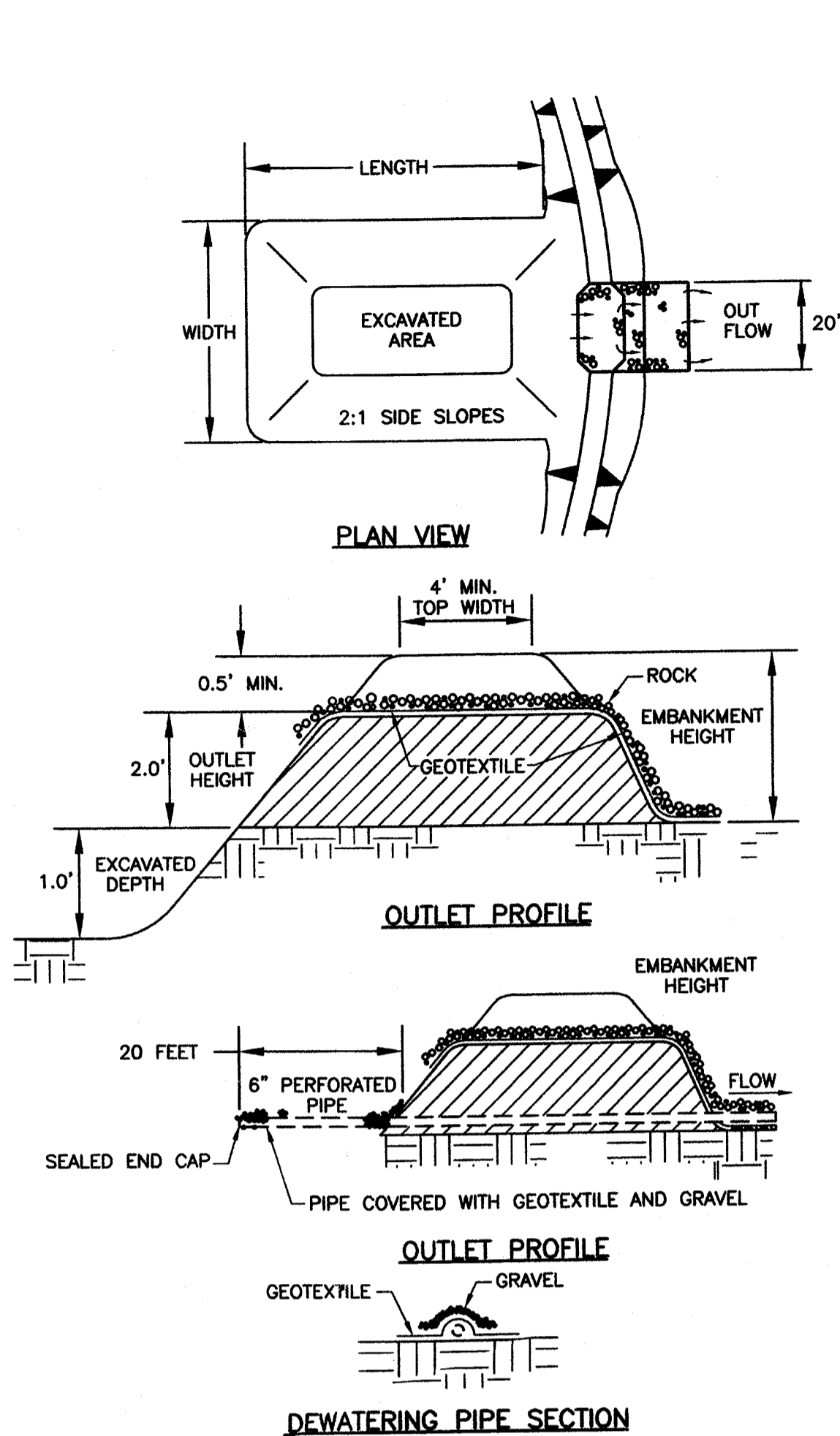
PERMANENT SEEDING				
SEED MIX	SEEDING RATE		NOTES:	
	LB./AC.	LB./1,000 FT <sup>2</sup>		
GENERAL USE				
CREEPING RED FESCUE	20-40	1/2-1		
DOMESTIC RYEGRASS	10-20	1/4-1/2		
KENTUCKY BLUEGRASS	10-20	1/4-1/2		
TALL FESCUE	40	1		
DWARF FESCUE	40	1		
STEEP BANKS OR CUT SLOPES				
TALL FESCUE	40	1		
CROWN VETCH	10	1/4	DO NOT SEED LATER THAN AUGUST.	
TALL FESCUE	20	1/2		
FLAT PEA	20	1/2	DO NOT SEED LATER THAN AUGUST.	
TALL FESCUE	20	1/2		
ROAD DITCHES AND SWALES				
TALL FESCUE	40	1		
DWARF FESCUE	90	2 1/4		
KENTUCKY BLUEGRASS	5			
LAWNS				
KENTUCKY BLUEGRASS	60	1 1/2		
PERENNIAL RYEGRASS	60	1 1/2		
KENTUCKY BLUEGRASS	60	1 1/2	FOR SHADED AREAS.	
CREEPING RED FESCUE	60	1 1/2		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.				

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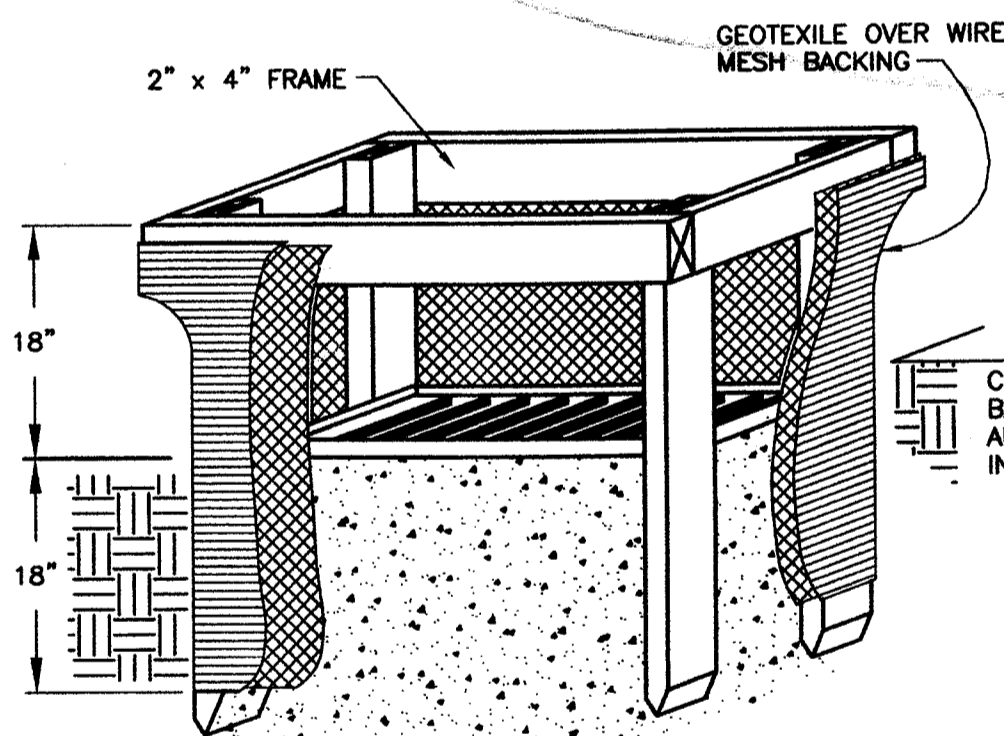
TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1,000 FT. <sup>2</sup>	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
AUGUST 16 TO NOVEMBER 1	ANNUAL RYEGRASS	1	40 LB.
	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING		USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.	
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.			

- TS

1. SEDIMENT TRAPS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT.
3. FILL MATERIAL USED FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF THE EMBANKMENT SHALL BE 5 FT. AS MEASURED FROM THE SURROUNDING GROUND.
4. CUT-AND-FILL SLOPES SHALL BE 2:1 OR FLATTER.
5. DIKES DIRECTING WATER TO THE TRAP SHALL BE HIGHER THAN THE HEIGHT OF THE EMBANKMENT.
6. TEMPORARY SEEDING SHALL BE ESTABLISHED ON ALL NON-SUBMERGED AREAS OF THE SEDIMENT TRAP.
7. THE STORAGE VOLUME SHALL BE ACHIEVED TO THE DIMENSIONS SHOWN IN THE PLANS TO ACHIEVE 67 CY OF STORAGE VOLUME BELOW THE CREST OF THE OUTLET FOR EVERY ACRE OF CONTRIBUTING DRAINAGE AREA.
8. THE OUTLET SPILLWAY SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN IN THE PLANS.
9. GEOTEXTILE SHALL BE PLACED OVER THE BOTTOM AND SLOPES OF THE OUTLET SPILLWAY. GEOTEXTILE SHALL CONTINUE DOWNSTREAM OF THE EMBANKMENT TO FORM AN APRON ON THE SURROUNDING GROUND. TO PREVENT RUNOFF FROM FLOWING UNDER THE GEOTEXTILE, THE SECTIONS PLACED NEAREST THE FRONT SHALL OVERLAP FOLLOWING SECTIONS. SECTIONS OF GEOTEXTILE SHALL OVERLAP AT LEAST 2 FT.
10. ROCK USED IN THE OUTLET SPILLWAY SHALL BE PLACED 1 FT. THICK ON THE GEOTEXTILE. THE ROCK SHALL BE BETWEEN TYPE C AND TYPE D ROCK WHERE  $D_{50}$  IS ABOUT 8 IN.
11. SEDIMENT TRAP BE REMOVED AND THE SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS FILLED ONE-HALF THE POND'S ORIGINAL DEPTH. REMOVED SEDIMENT SHALL BE SPREAD IN A SUITABLE AREA AND STABILIZED SO IT WILL NOT ERODE.
12. THE STRUCTURE AND ACCUMULATED SEDIMENT SHALL BE PERMANENTLY STABILIZED WHEN THE DRAINAGE AREA HAS BEEN STABILIZED.



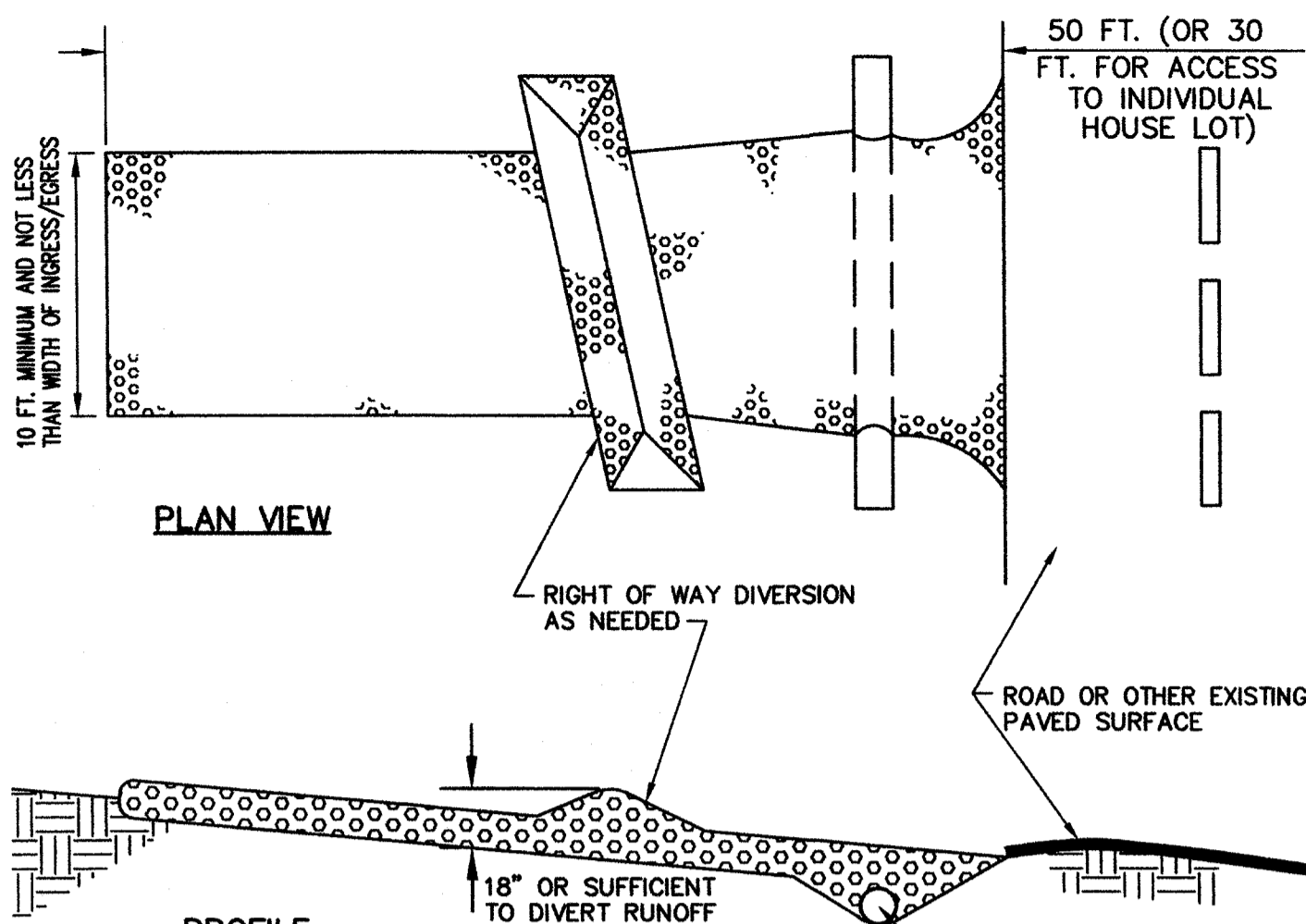
(ST)



1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
  2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 IN.
  3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 IN BY 4 IN. CONSTRUCTION GRADE LUMBER. THE 2 IN. BY 4 IN. POSTS SHALL BE DRIVEN 18 IN. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE 2 IN. BY 4 IN. PORTION OF THE FRAME SHALL BE ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT GRADE. IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
  4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
  5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20 - 40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 IN. BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
  6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
  7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED TO THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME.
  8. SOIL NAILS SHALL BE CONSTRUCTED ON SLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
  9. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
  10. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR ROOT PLANT AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE ESTABLISHED WITHIN 30 DAYS FROM THE INSTALLATION OF THE FENCE.
  11. SOIL STOCKPILES OR OTHER SOURCES OF SEDIMENT SHALL HAVE SILT FENCE PROTECTION.
  12. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, COLD CHAIN SAW OR OTHER MECHANICAL DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

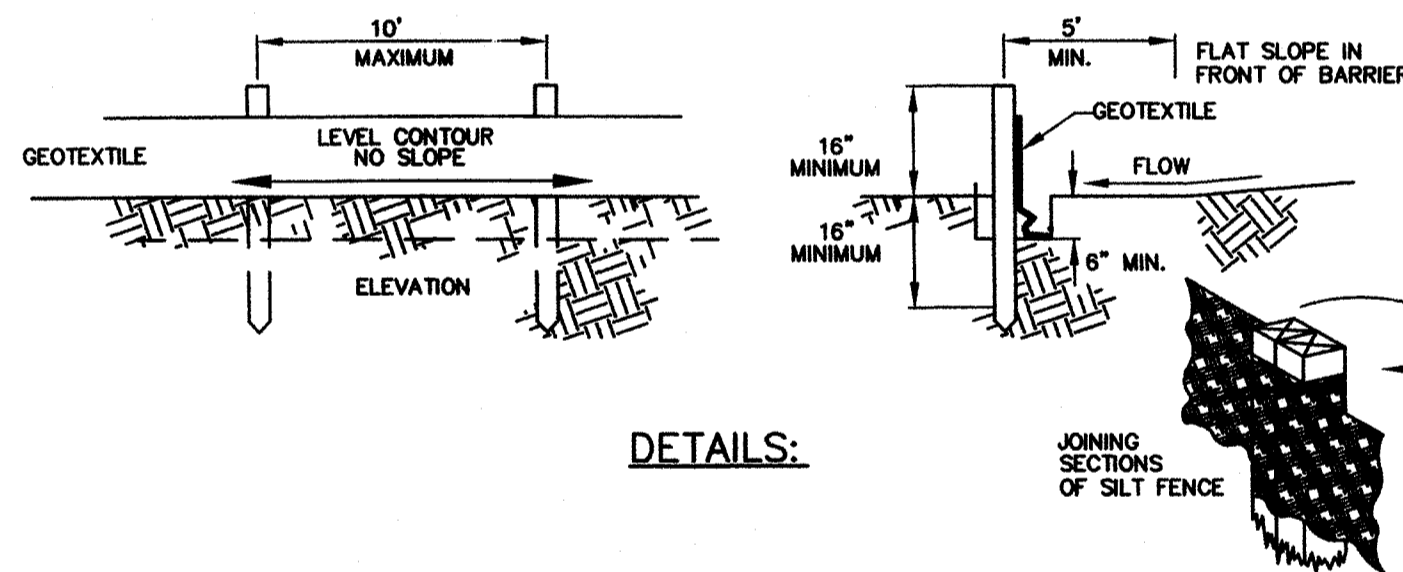
N.T.S.

IP



1. STONE SIZE - TWO-INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HILLSIDE BUT NOT LESS THAN 150 FT. EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30-FT. MINIMUM LENGTH APPLIES.
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 IN. THICK.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 10 FT. WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.
6. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
7. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
8. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE WALL SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CONTROLLED BY STRUCTURE CONTROLS, SHALL BE IMMEDIATELY REMOVED. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

N.T.S.



**NOTES:**

1. THE SILT FENCE SHALL BE CONSTRUCTED BEFORE UPOUSLOPE LAND DISTURBANCE BEGINS.
  2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL FLOWS WILL NOT CONCENTRATE IN HIGHLY SALT CONCENTRATED FLOWS. THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
  3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AND CAUSING EROSION, THE FENCE SHOULD BE CONSTRUCTED UPOUSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
  4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
  5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPOUSLOPE FROM THE SILT FENCE. VEGETATION REMOVAL SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE FENCE.
  6. SOIL STOCKPILES OR OTHER SOURCES OF SEDIMENT SHALL HAVE SILT FENCE PROTECTION.
  7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, A BACKHOE, OR A TRENCHING MACHINE. ANY OTHER EQUIPMENT WHICH WILL ENSURE AN ADEQUATELY
  8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE. SIDE BOTH ARE TEXTILE MATERIALS. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
  9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION TOGETHER BEFORE DRIVING INTO THE GROUND.
  10. MAINTENANCE -- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE FENCE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
    - 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED.
    - 2) ACCUMULATED SEDIMENT SHALL BE REMOVED.
    - 3) OTHER PRACTICES SHALL BE INSTALLED.
- CRITERIA FOR SILT FENCE MATERIALS
1. FENCE POSTS -- THE LENGTH SHALL BE A MINIMUM OF 32" LONG. WOOD POST WILL BE ACCEPTABLE IF HARDWOOD. SOUND QUALITY, THE MINIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
  2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 P.S.I. MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT. <sup>2</sup> MAXIMUM	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RAD. STABILITY	90% MINIMUM	ASTM-G-26

N.T.S