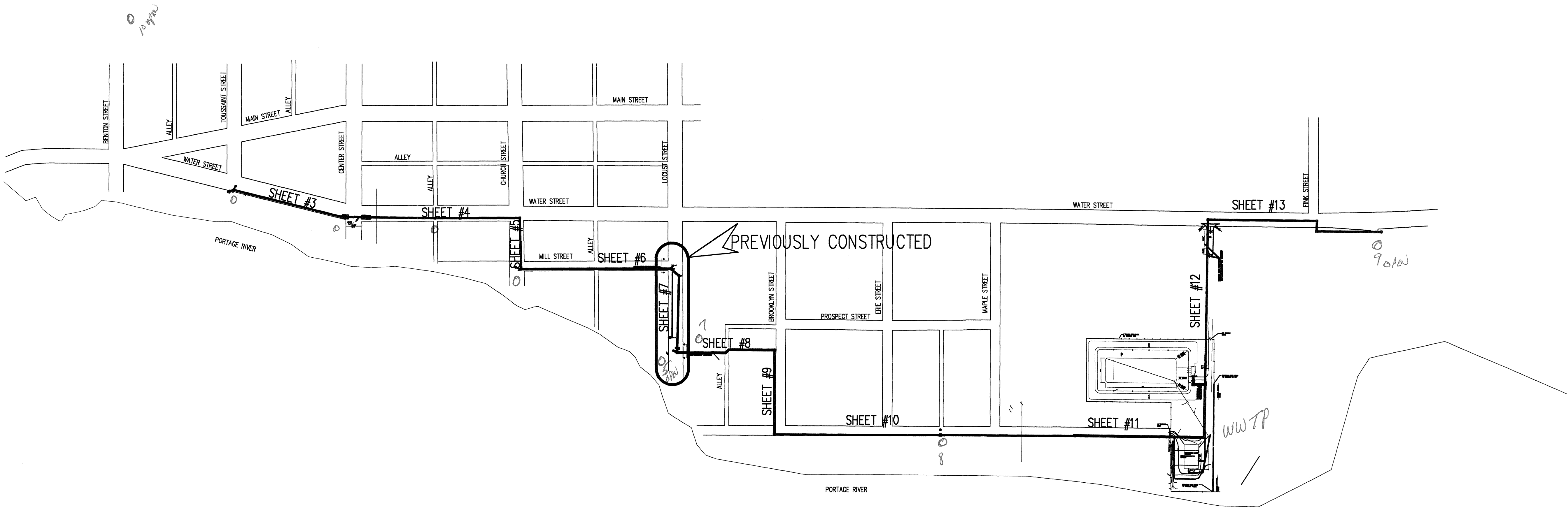


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QTY.	UNIT	DESCRIPTION
17	L.F.	18" SANITARY SEWER
351	L.F.	42" SANITARY SEWER
40	L.F.	54" SANITARY SEWER
66	V.F.	OVERFLOW INTECEPTOR STRUCTURE
11	V.F.	SANITARY MANHOLE
4	EACH	SANITARY MANHOLE FRAME AND COVER
1	EACH	PLUG OVERFLOW STRUCTURE
300	L.F.	6" WATERLINE
1	EACH	6"x8" TAPPING SLEEVE AND VALVE
4	EACH	RECONNECT EXISTING WATER SERVICE
1	EACH	CURB INLET REPLACEMENT
2	EACH	CATCH BASIN REPLACEMENT
380	L.F.	12" AND UNDER STORM SEWER REPLACEMENT
60	L.F.	OVER 12" STORM SEWER REPLACEMENT
1	L.S.	MISCELLANEOUS RESTORATION
1	L.S.	TRAFFIC CONTROL
1	L.S.	BONDS AND INSURANCE (2%)
1	L.S.	PROJECT VIDEO

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
Call 1-800-392-5734 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
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MUST BE CALLED DIRECTLY

VILLAGE OF OAK HARBOR
OTTAWA COUNTY , OHIO

SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY , OHIO

GENERAL
PLAN

DRAWN BY	CHECKED BY
RAO	DAL
REVISION	

2
OF

JOB NUMBER
1590-120

CONTRACT B-1

POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS
ENGINEERS
PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537



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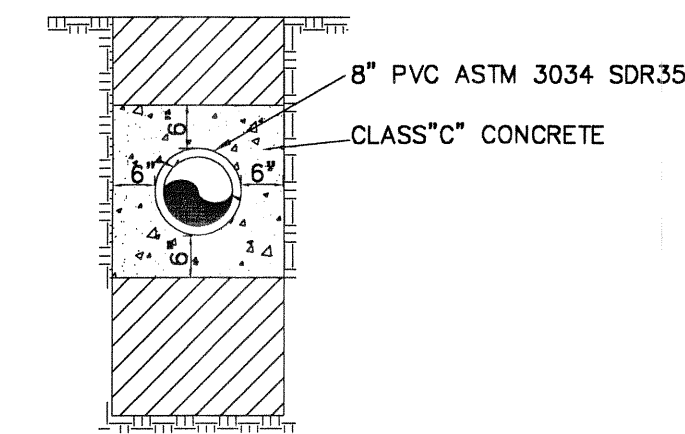
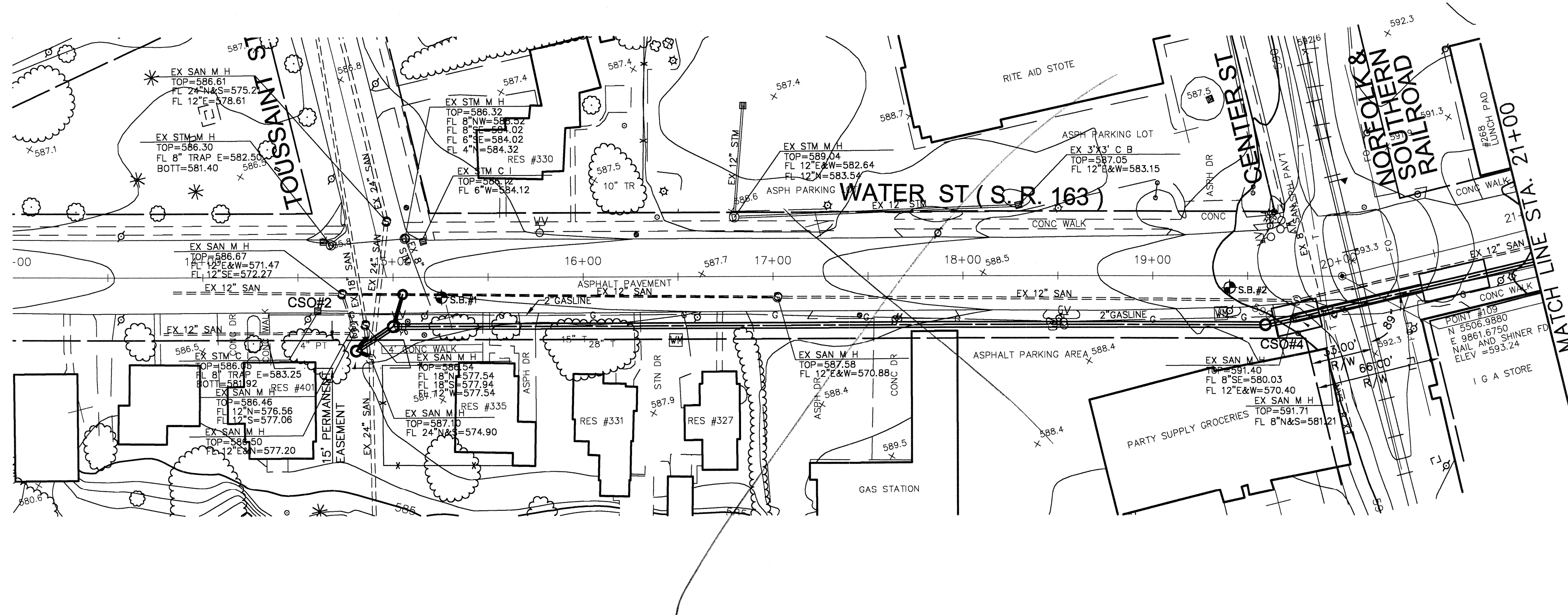
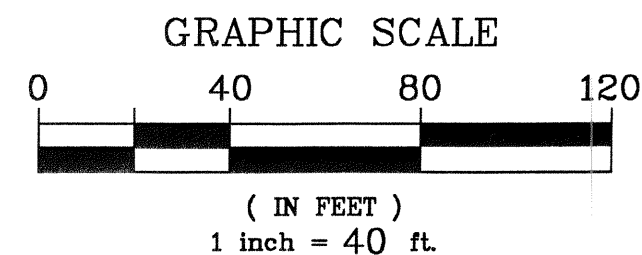
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BEFORE YOU DIG
Call 1-800-986-2786 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



CONCRETE ENCASUREMENT DETAIL

NOTE: PIPE LINE AND CROSSINGS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.

NOTE: CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS. PROVIDE CONSTRUCTION SEQUENCE PRIOR TO COMMENCING WORK.

NOTE: BLASTING NOT PERMITTED.

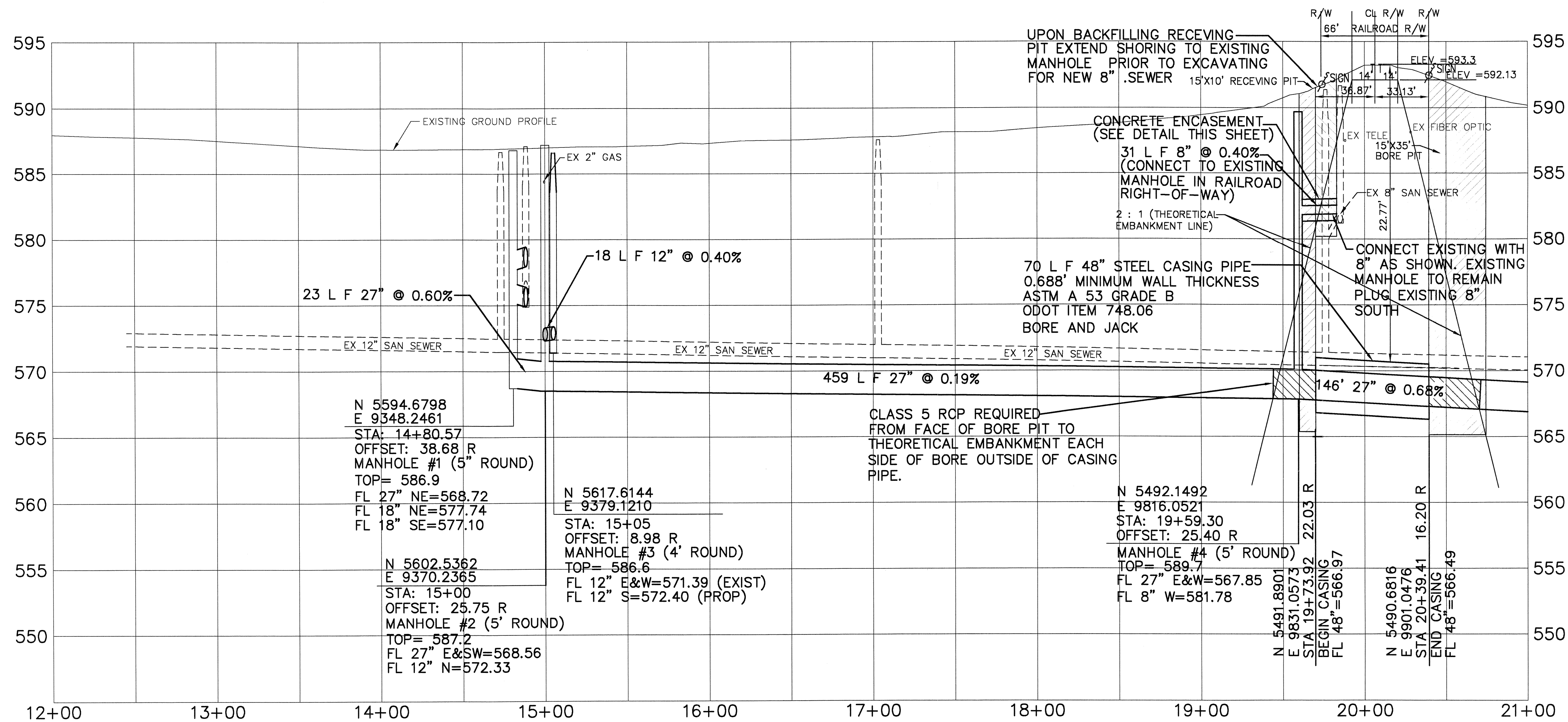
NOTE: CROSSING ID # 473754T

NOTE: SHEETING AND SHORING IN ACCORDANCE WITH NORFOLK SOUTHERN'S NSCE 8 SPECIFICATION WILL BE REQUIRED FOR EXCAVATION. SHORING SHALL COMPLY WITH APPROVED SHORING DETAILS, BOWSER-MORNER, DATED 2-17-07 INCLUDED WITH THE SPECIFICATIONS. ALL SHORING SHALL BE OF SHEET PILE CONSTRUCTION. SOLDIER PILE AND TIMBER CONSTRUCTION WILL NOT BE ALLOWED. EXTENDED SHORING AS REQUIRED FOR EXCAVATION \ CONNECTION OF 8" SEWER TO EXISTING SANITARY MANHOLE.

NOTE: OSHA RATED RAILING AND CONSTRUCTION FENCING SHALL BE MAINTAINED AROUND THE BORE PIT AND RECEIVING PIT AT ALL TIMES. IF A PIT MUST REMAIN OPEN OVERNIGHT, IT SHALL BE COMPLETELY COVERED WITH STEEL PLATE.

NOTE: ALL SHEET PILE SHALL REMAIN IN PLACE AT THE COMPLETION OF CONSTRUCTION. CUT OFF PILING 2' BELOW FINISHED GRADE. REMOVE CROSS BRACING ONLY AFTER BACKFILL IS PLACED TO WITHIN 2' OF BRACING.

NOTE: BACKFILL BORE AND RECEIVING PIT COMPLETELY WITH ODOT ITEM 703.17 STONE COMPACTED IN 8" LAYERS. ALTERNATELY ODOT ITEM 613, LOW STRENGTH MOTAR BACKFILL, TYPE 2, MAY BE USED.



POGGE MEYER DESIGN GROUP, INC.
PLANNERS
ARCHITECTS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

**WATER STREET
PLAN & PROFILE
13+00 - 21+00**

DRAWN BY: RAO
CHECKED BY: DAL
REVISION:

3
OF

JOB NUMBER
1590-120

CONTRACT B

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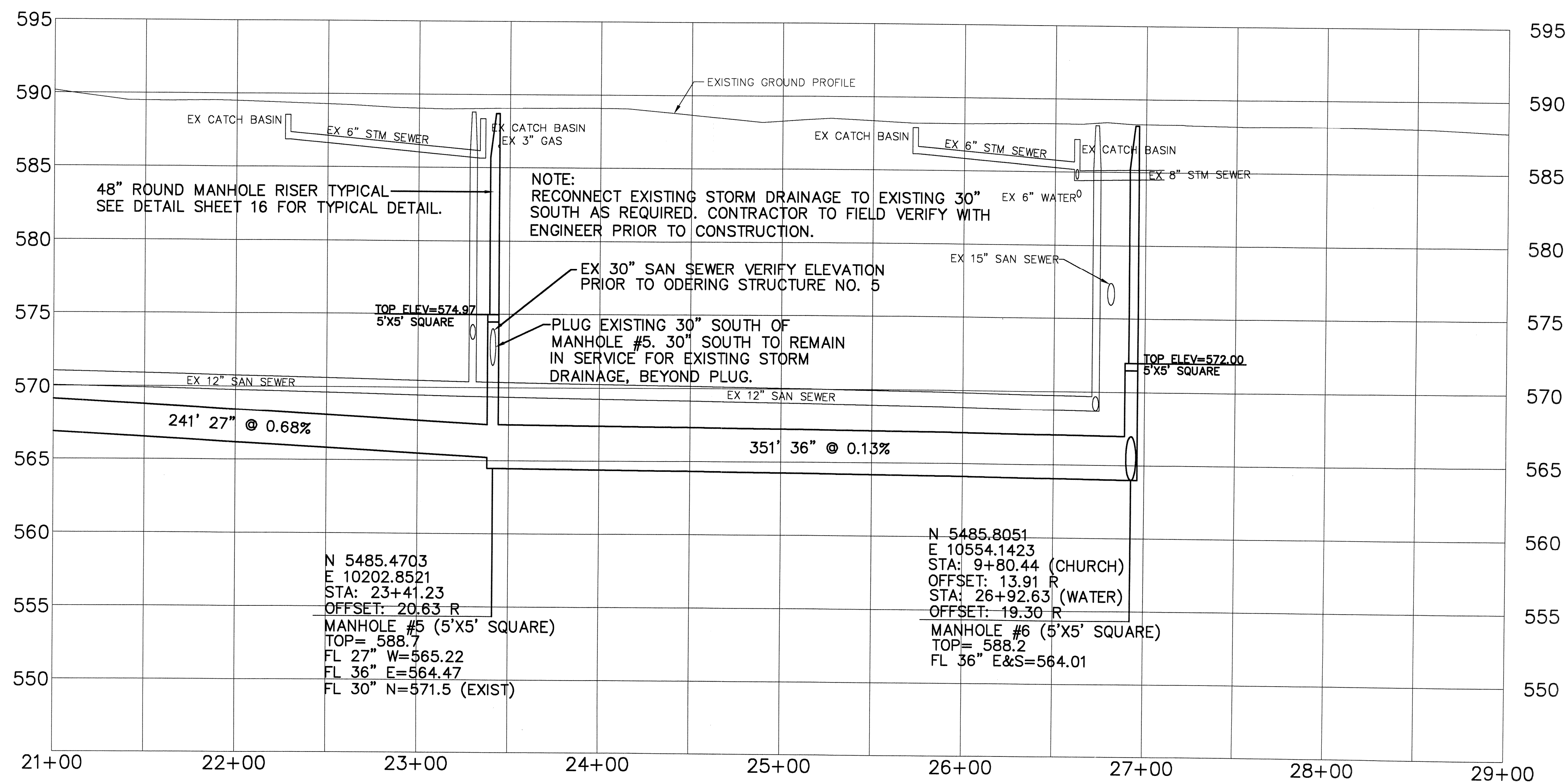
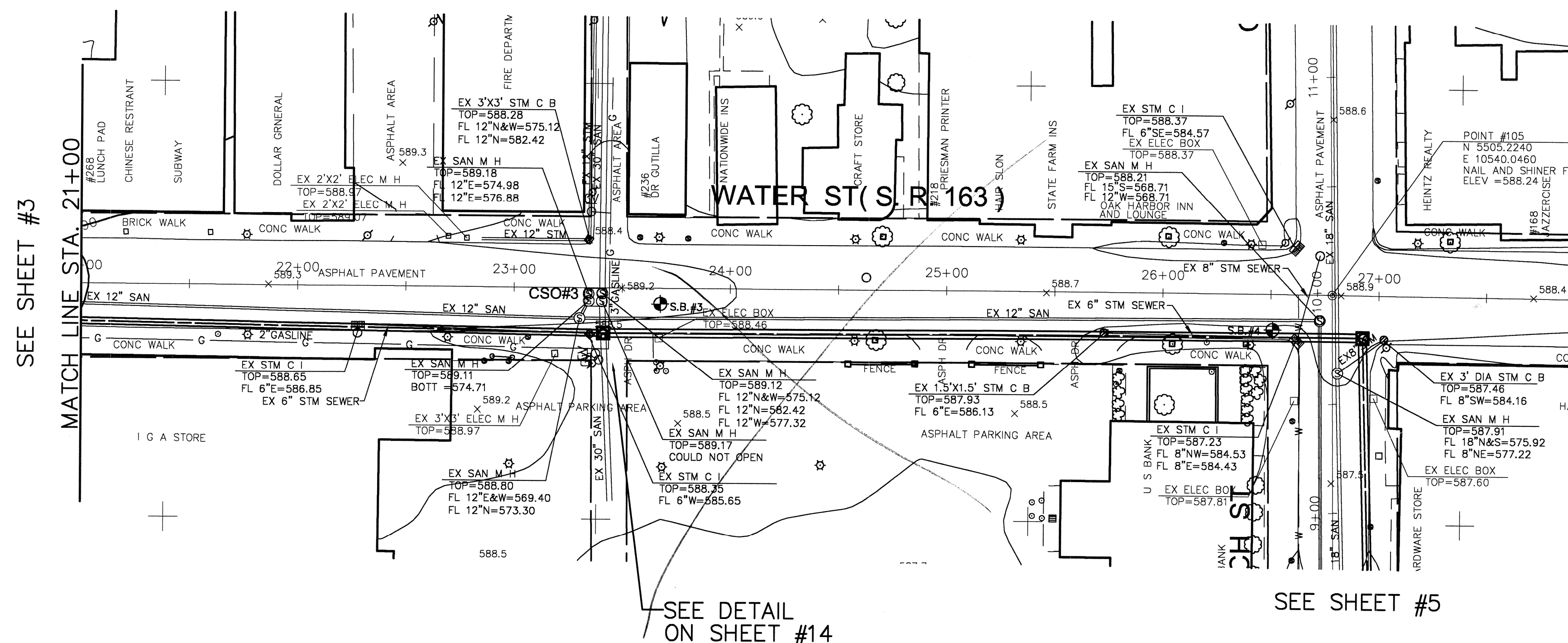
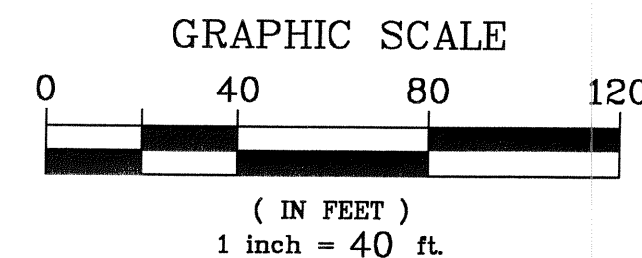
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CONTRACT B

SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO

WATER STREET
PLAN & PROFILE
21+00 - 28+00

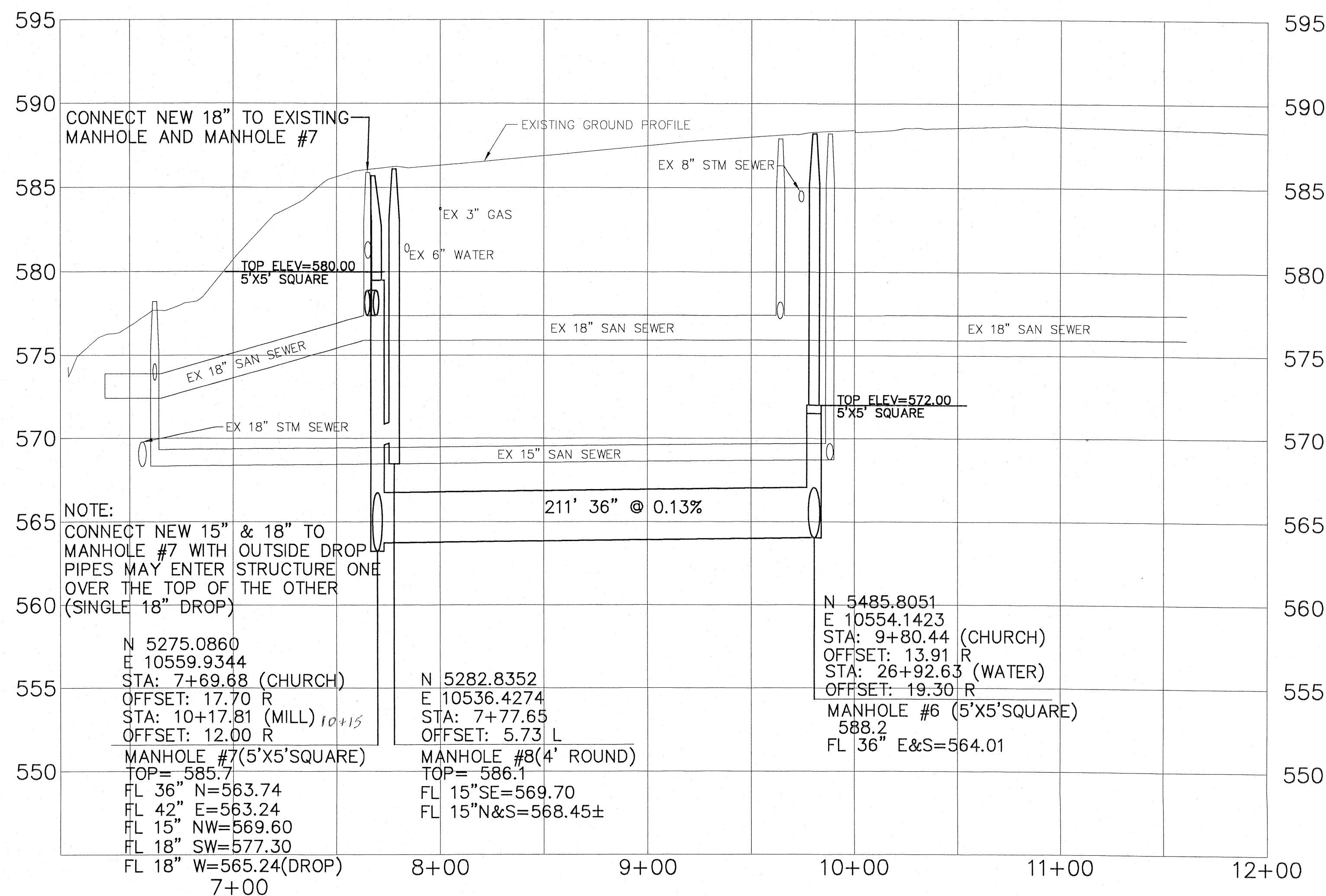
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CHECKED BY: DAL
REVISION:

4
OF

JOB NUMBER
1590-120

POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS
ENGINEERS
PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

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JOB NUMBER
1590-120

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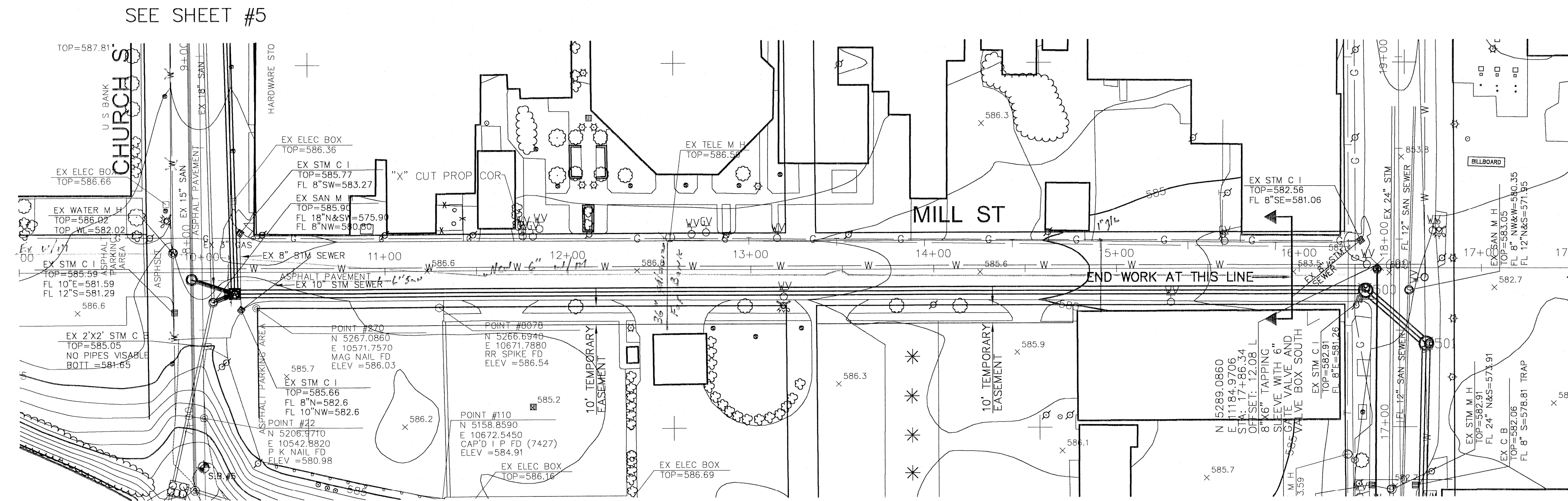
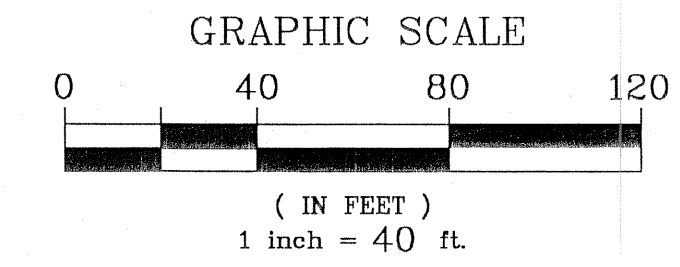
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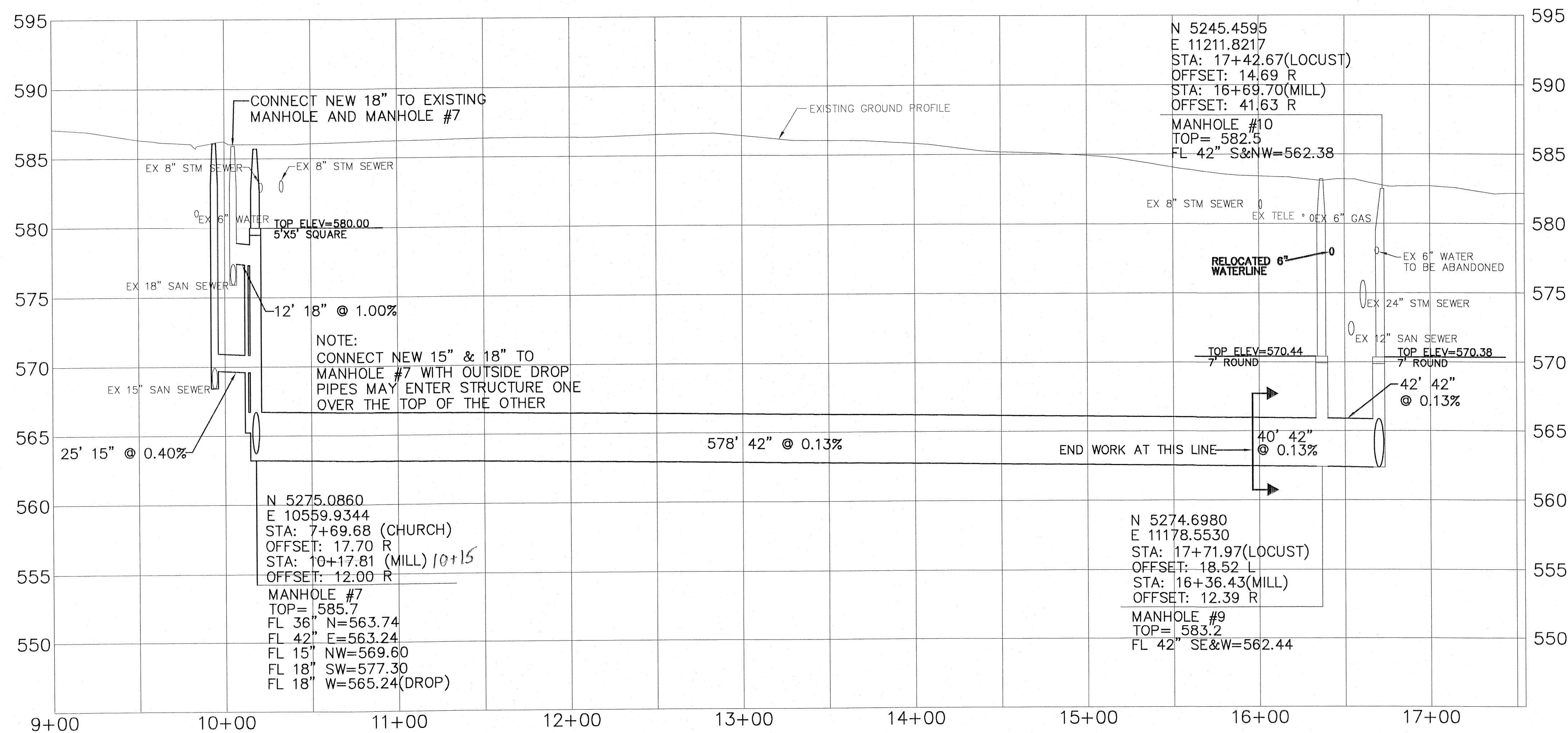
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UNDERGROUND UTILITIES
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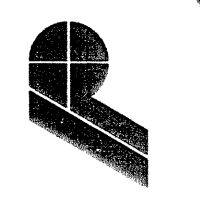


NOTE:

WORK ON THIS SHEET
STA 10+00 TO STA 15+96.4
MILL STREET



CONTRACT B-1



POGEMEYER DESIGN GROUP, INC.
PLANNERS
BOWLING GREEN, OHIO 43402
ARCHITECTS
1168 NORTH MAIN STREET
(419) 352-7537

**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

**MILL STREET
PLAN & PROFILE
9+00 - 18+00**

DRAWN BY: RAO
CHECKED BY: DAL
REVISION:

6
OF

JOB NUMBER
1590-120

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POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS • ENGINEERS • PLANNERS
11168 NORTH MAIN STREET (419) 352-7537 BOWLING GREEN, OHIO 43402

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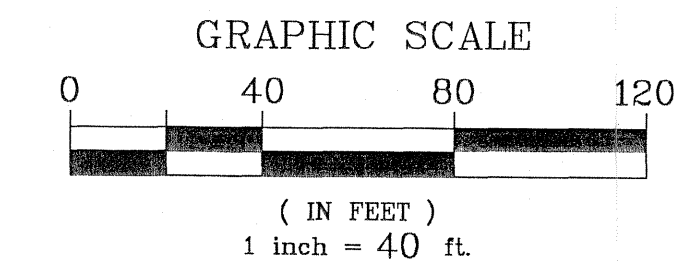
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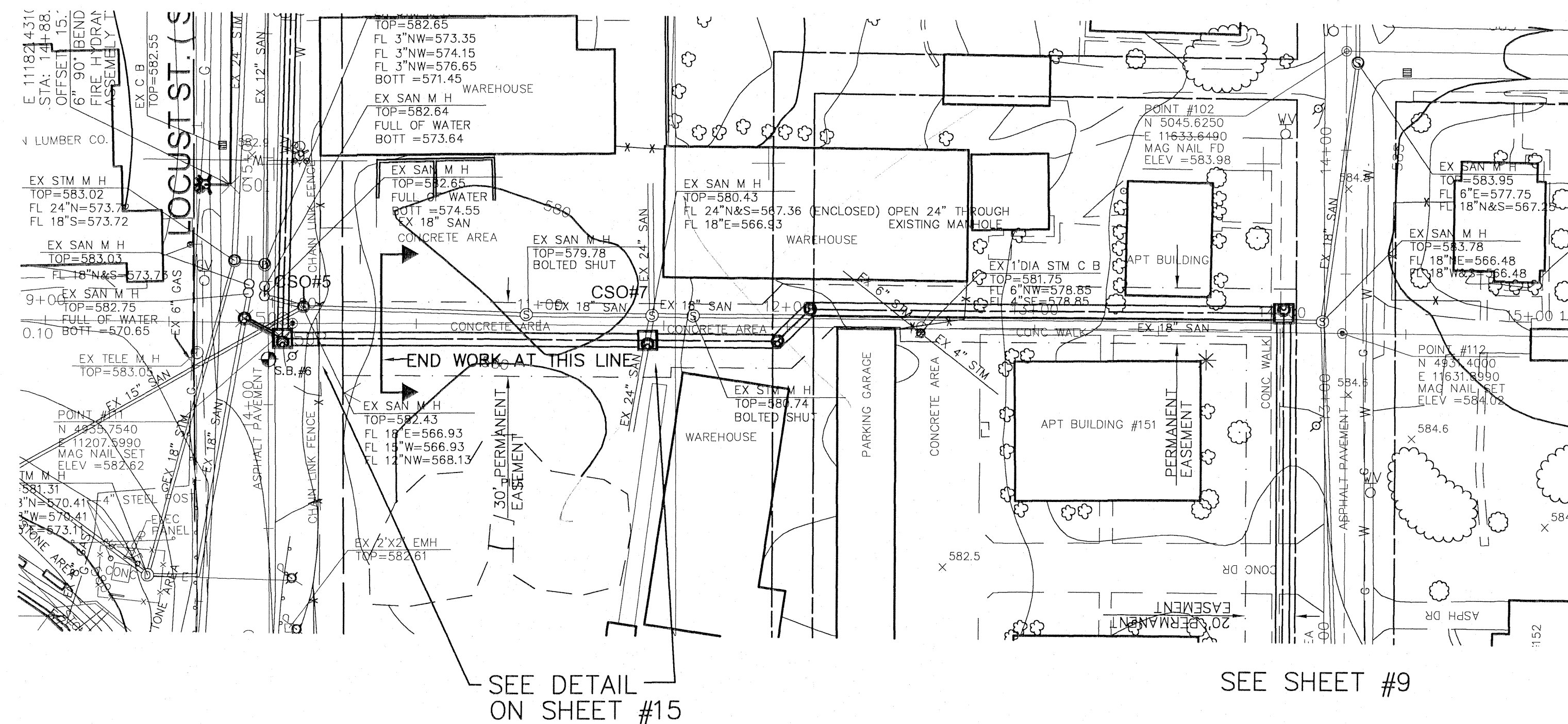
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TWO WORKING DAYS
BEFORE YOU DIG
Call 1-800-362-2784 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-EMERGENCY
MUST BE CALLED DIRECTLY



SEE SHEET #7



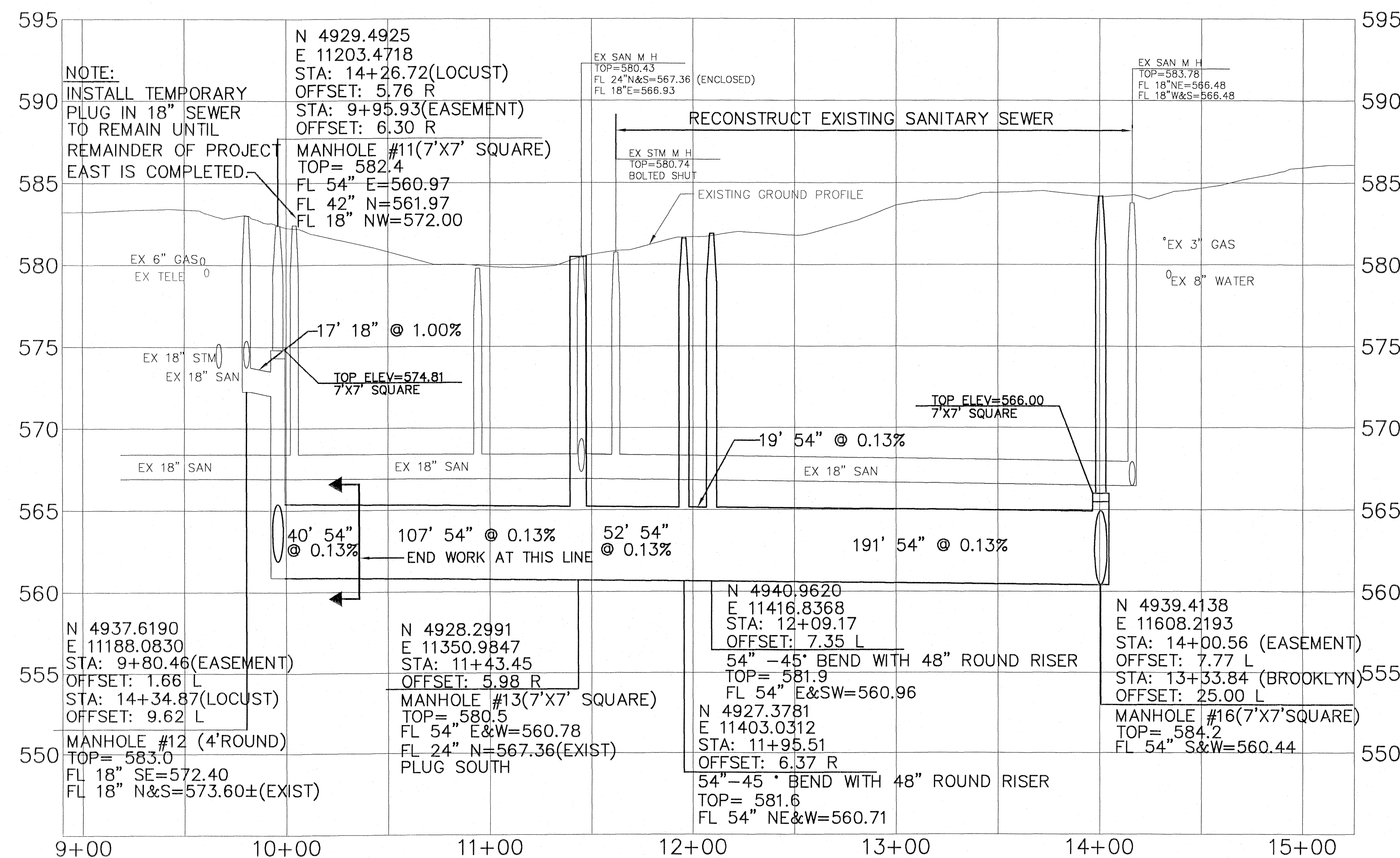
SEE SHEET #9

NOTE:

WORK ON THIS SHEET

STA 10+20.5 TO STA 14+00.56

EASEMENT



CONTRACT B-1

SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO

EASEMENT
PLAN & PROFILE
9+00 - 15+00

DRAWN BY
RAO

CHECKED BY
DAL

REVISION

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OF

JOB NUMBER

1590-120

POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS
ENGINEERS
PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

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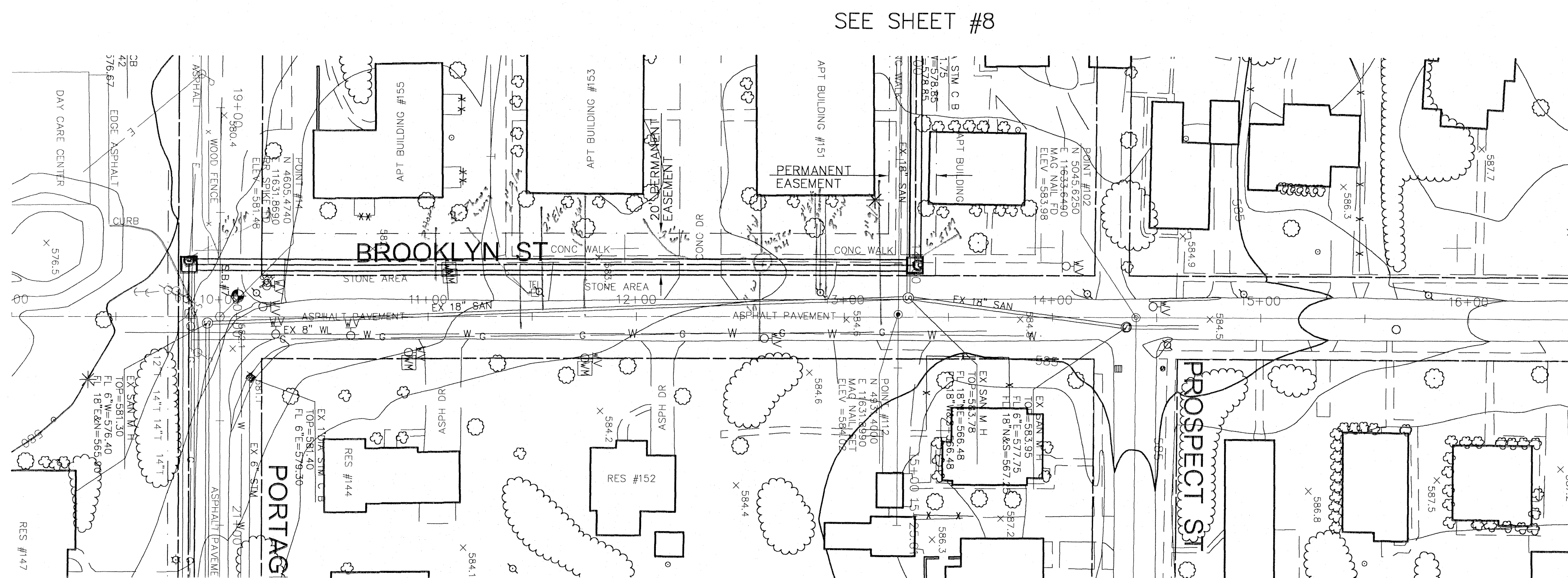
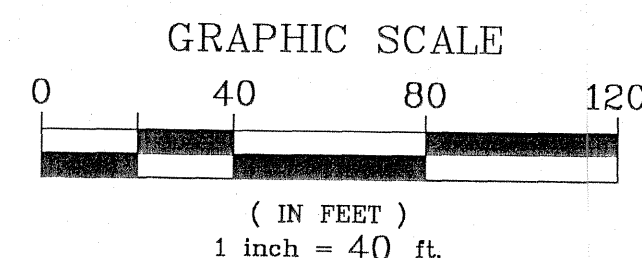
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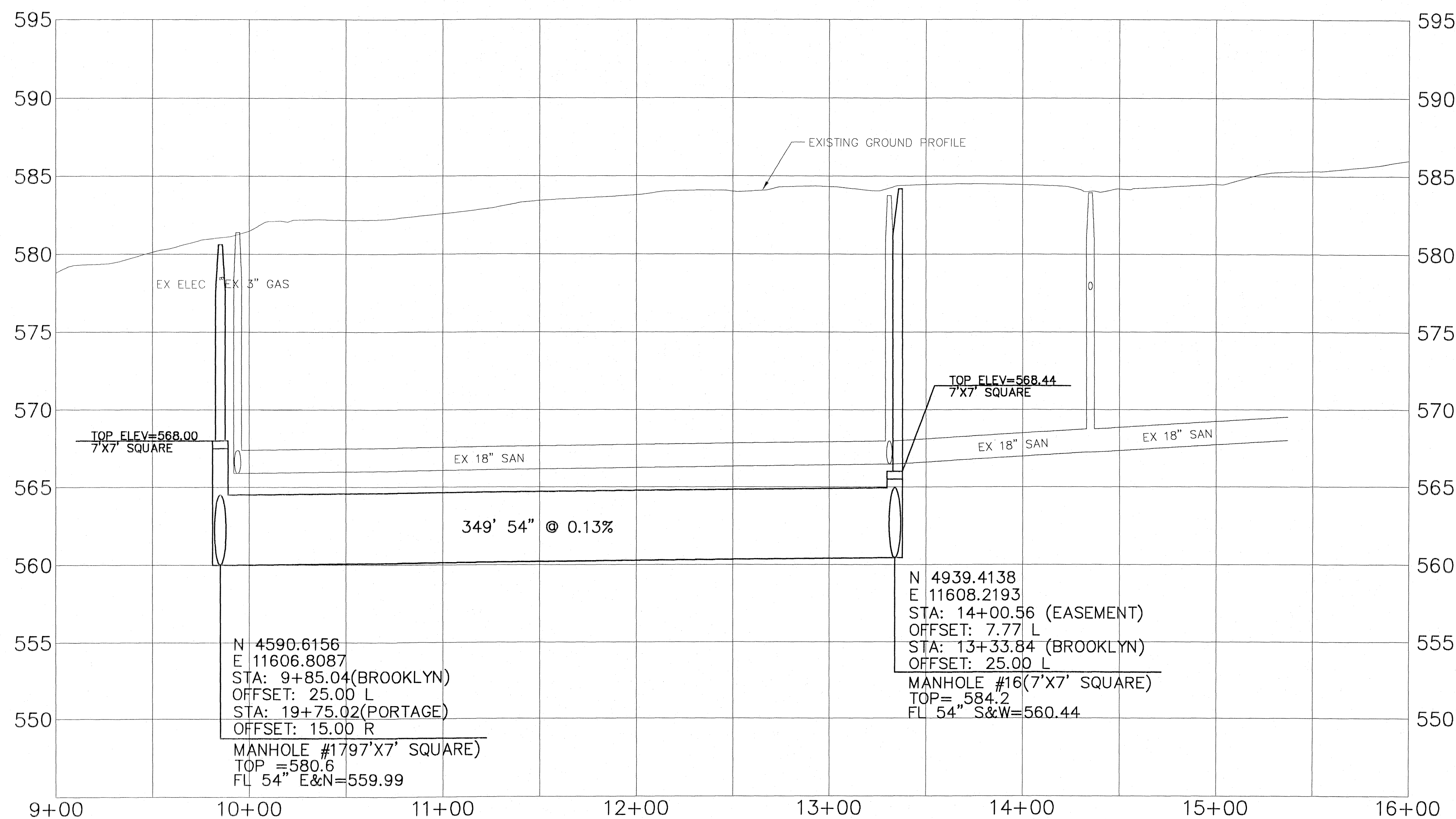
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TWO WORKING DAYS
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OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



6" STM Provided For
5' Deep ARTS



CONTRACT B

SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO

BROOKLYN STREET
PLAN & PROFILE
9+00 - 15+00

DRAWN BY: RAO
CHECKED BY: DAL

REVISION

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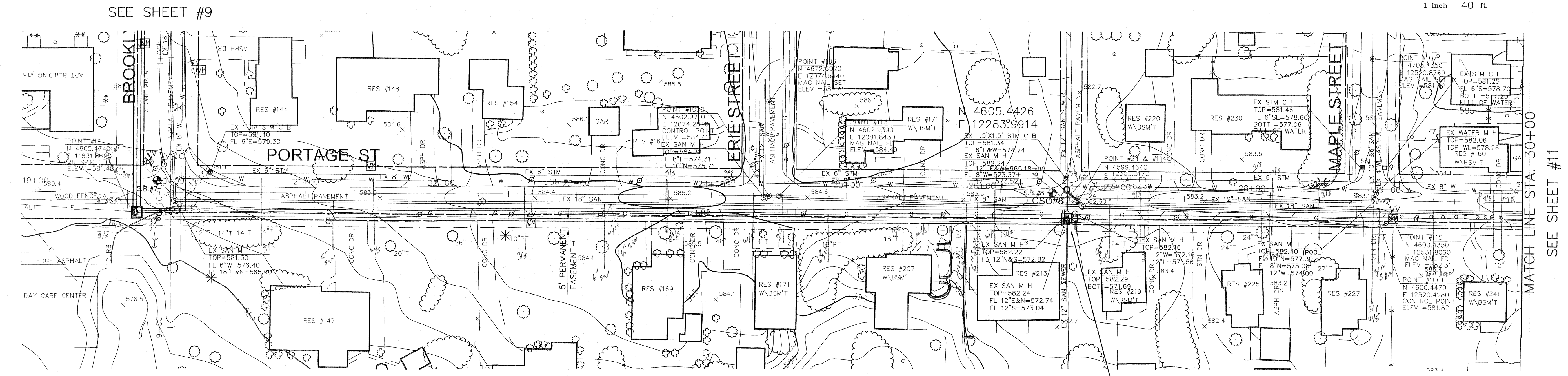
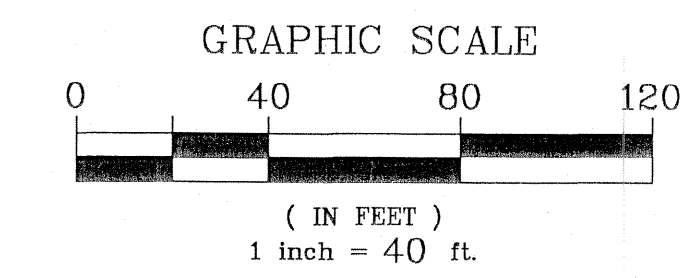
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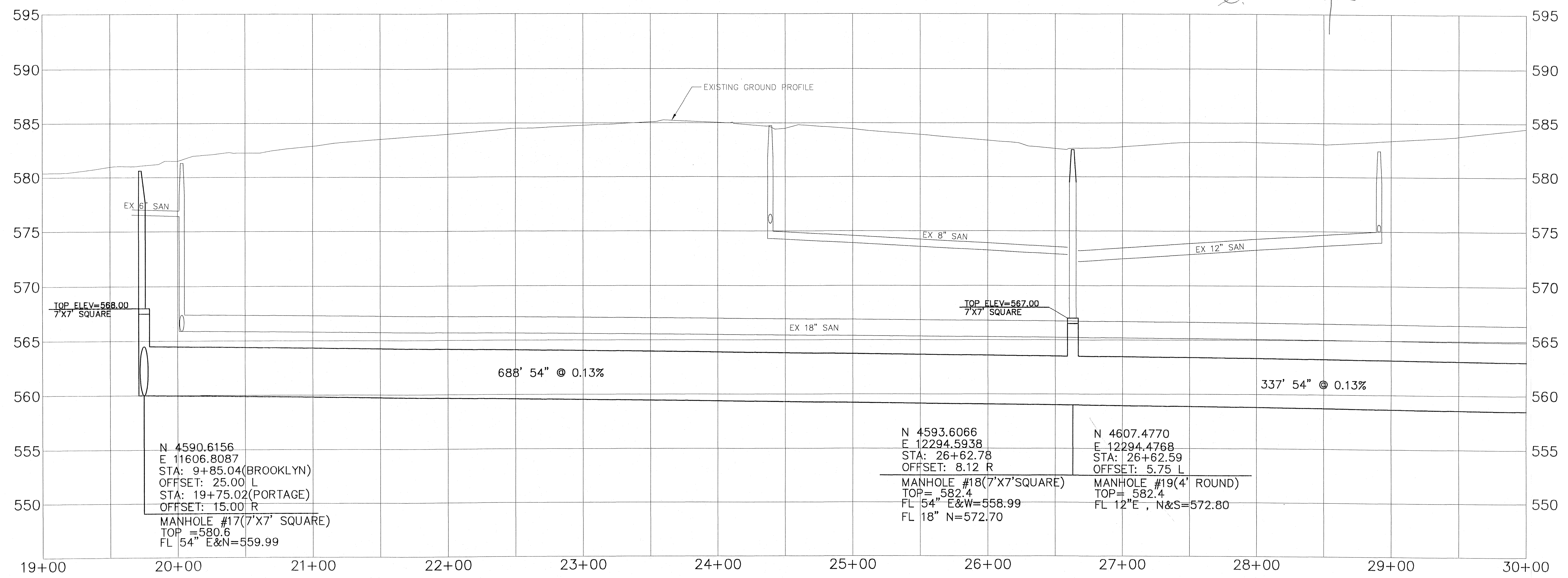


22x30
San MH Buried
3' under Pavement

(Contractor will
bring all buried
MH's up to grade)

Found Ex MH with
one 12" San with
1-3" and 2-6" pipe
Center of Road

NOTE: REMOVE C S O #8
STRUCTURE AND PLUG
8" TO THE SOUTH



CONTRACT B

POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS ENGINEERS PLANNERS
1168 NORTH MAIN STREET BOWLING GREEN, OHIO 43402
(419) 352-7537

**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

**PORTAGE STREET
PLAN & PROFILE
19+00 - 30+00**

DATE	BY	REVISION

10
OF

JOB NUMBER
1590-120

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GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

CONTRACT B

JOB NUMBER
1590-120

POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS • ENGINEERS • PLANNERS
1168 NORTH MAIN STREET • BOWLING GREEN, OHIO 43402
(419) 352-7537

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NOTE: SERVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. LOCATIONS WILL BE ESTABLISHED IN THE FIELD DURING CONSTRUCTION. SERVICES WILL TERMINATE AT R-O-W AS SHOWN AT 6 FEET BELOW GRADE.

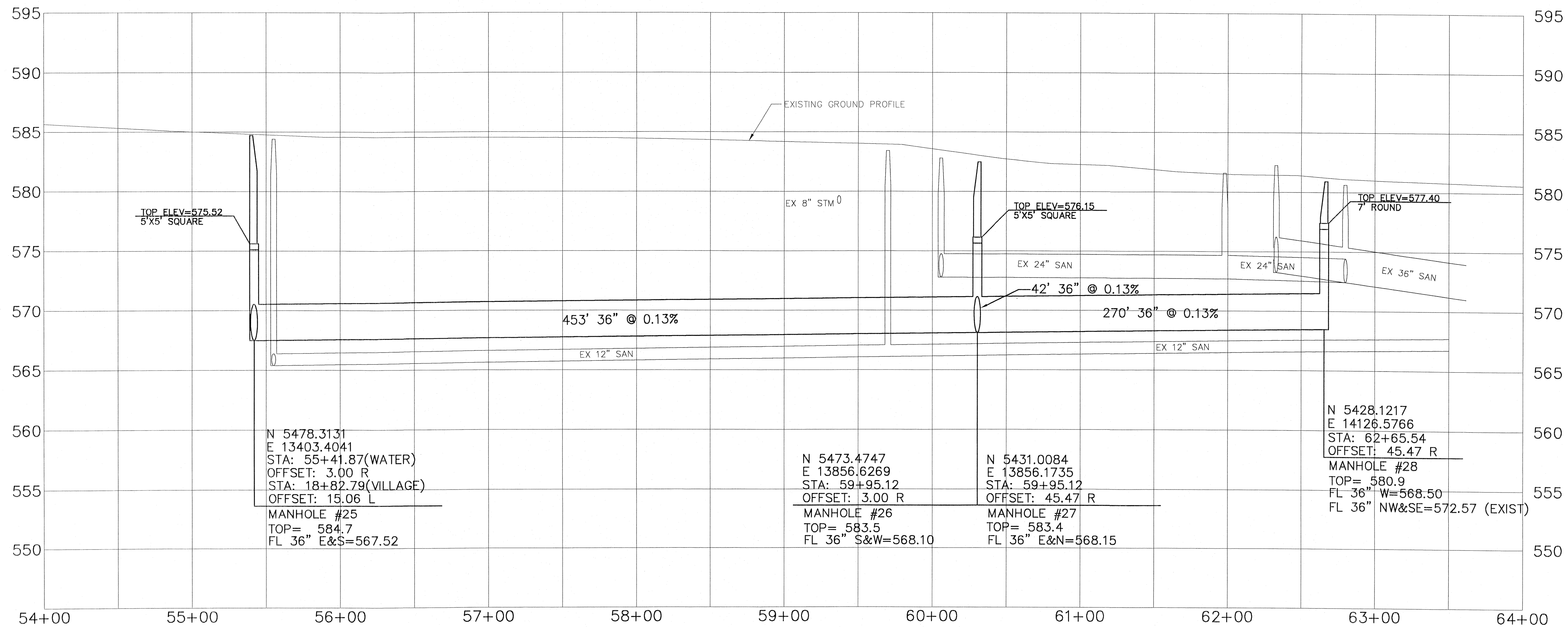
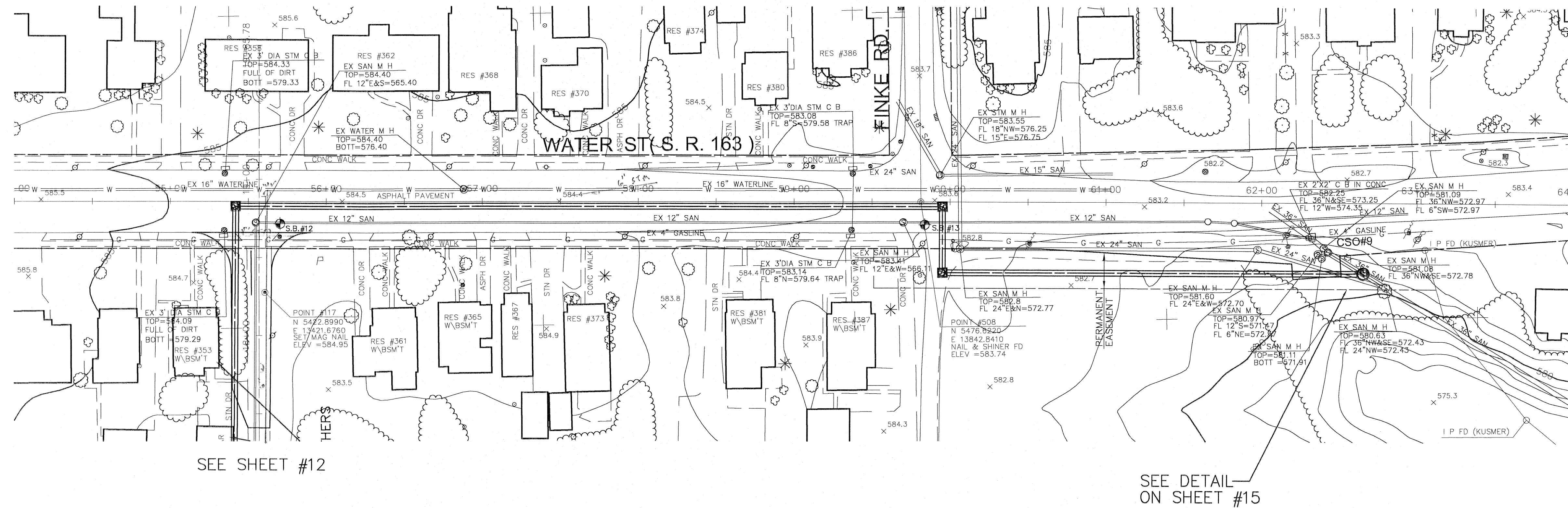
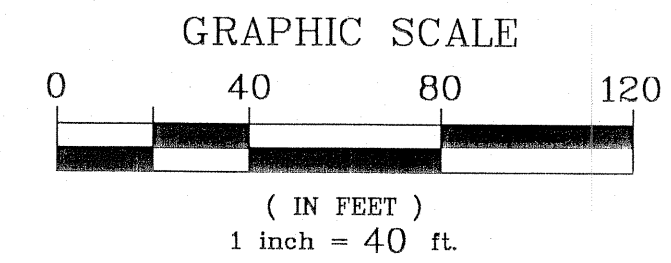
NOTE: ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING ANY EXCAVATION PERFORMED AS A RESULT OF THIS PROJECT.

NOTE: A MINIMUM OF TEN (10) FEET HORIZONTALLY AND EIGHTEEN (18) INCHES VERTICALLY FROM ANY SANITARY SEWER OR SEPTIC LINE MUST ALWAYS BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE OHIO EPA. NO ENTRY OR CONTACT WITH A SEWER MANHOLE IS PERMITTED.

NOTE: CONTRACTOR TO SHORE / BRACE AS REQUIRED TO PROTECT BUILDING FOUNDATIONS AND EXISTING STRUCTURES ADJACENT TO EXCAVATIONS.

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
Call 1-800-368-2744 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



CONTRACT B



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(419) 352-7537

**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

**WATER STREET
PLAN & PROFILE
54+00 - 64+00**

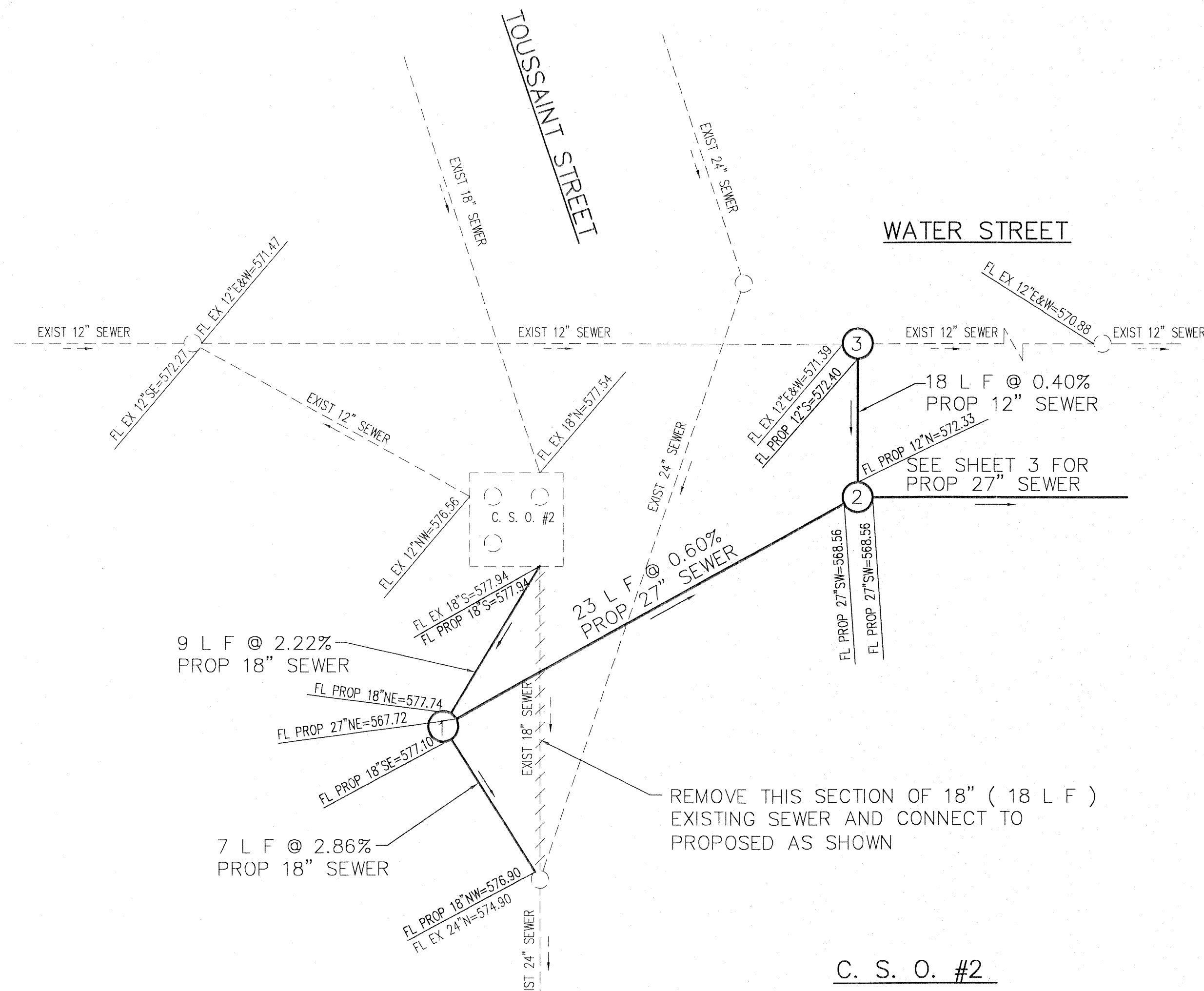
DESIGNED BY: RAO
CHECKED BY: DAL
REVISION:

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OF

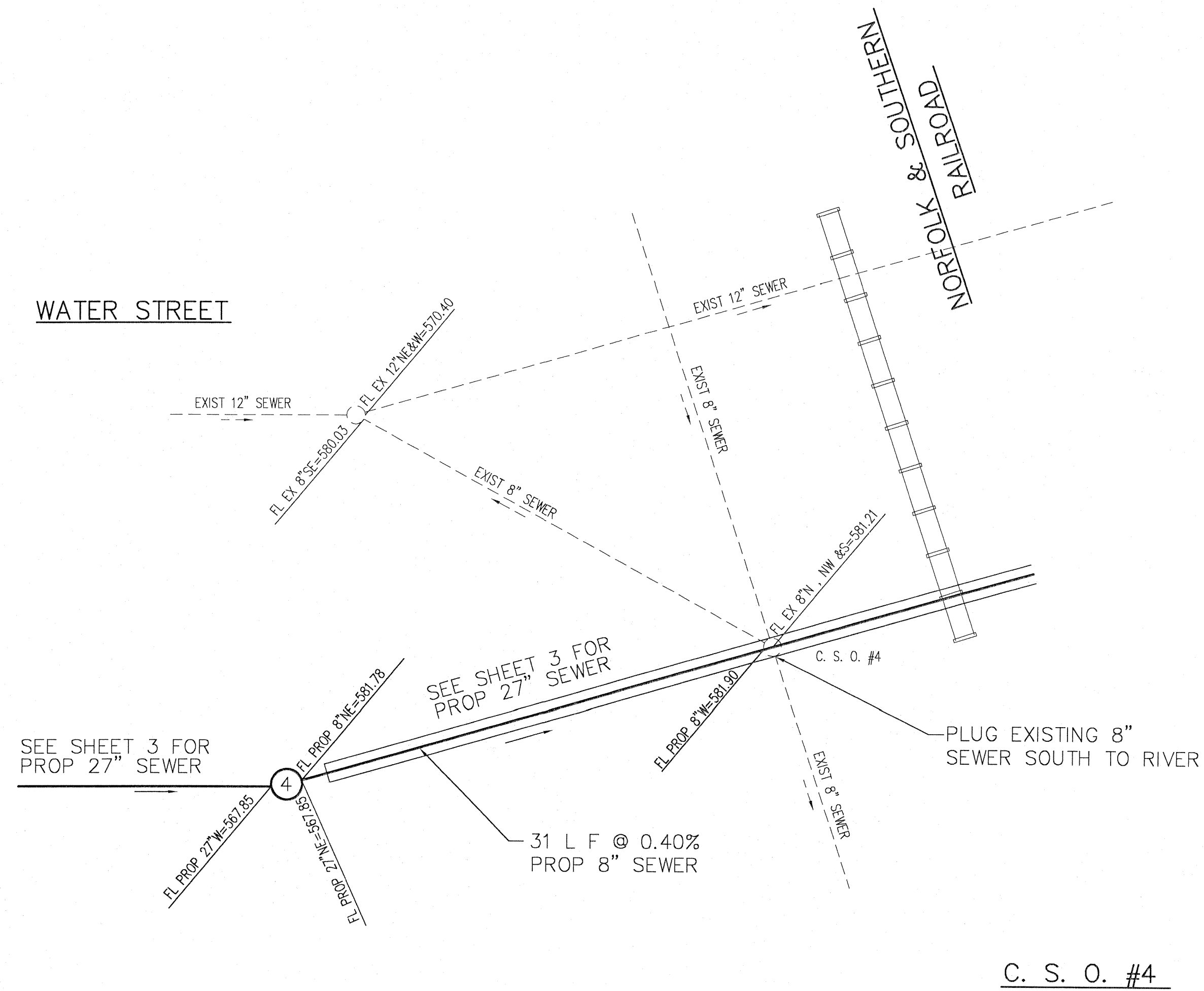
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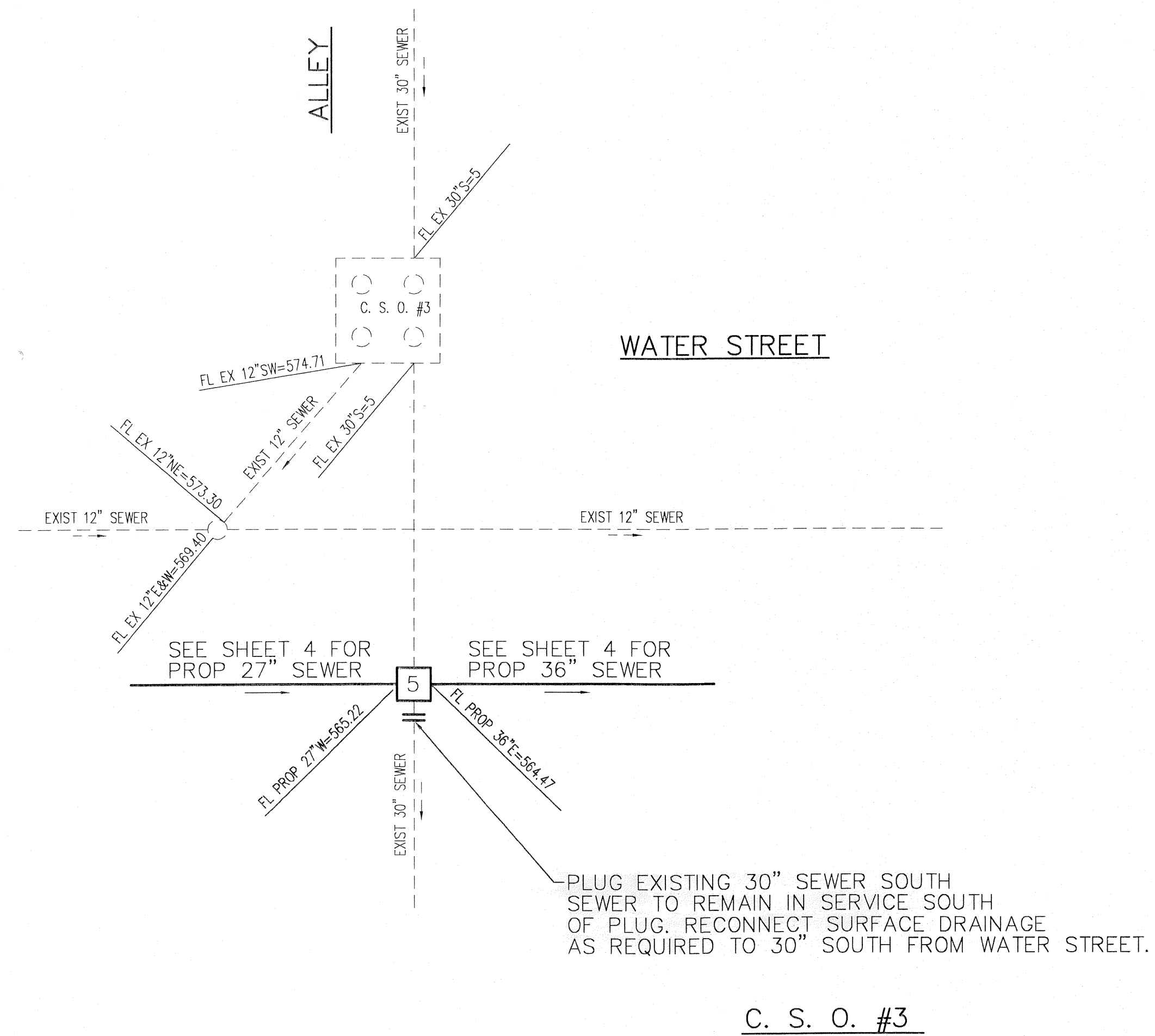
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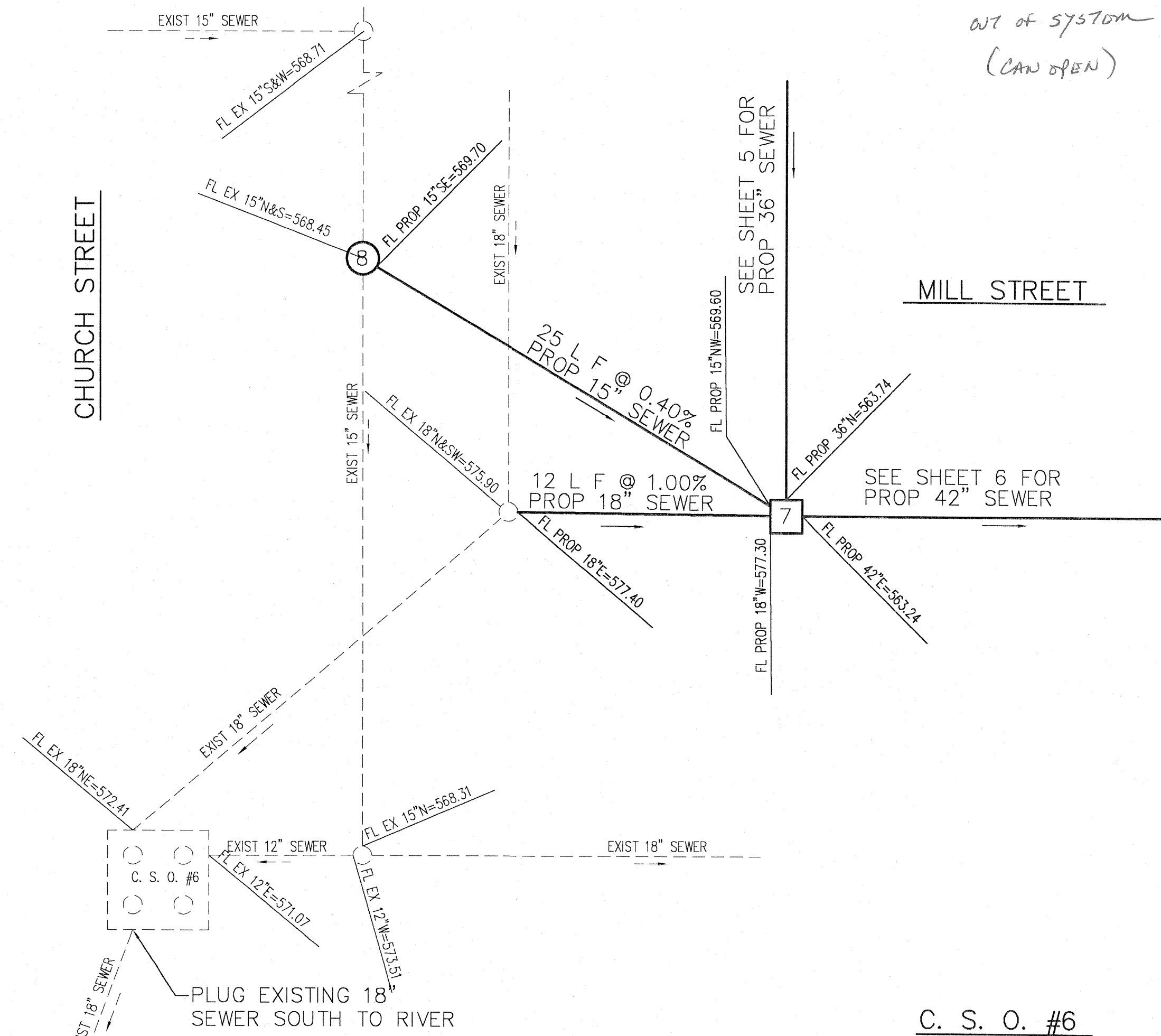
C. S. O. #2



C. S. O. #4



C. S. O. #3



C. S. O. #6

CONTRACT B

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**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

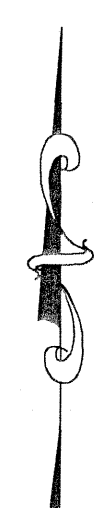
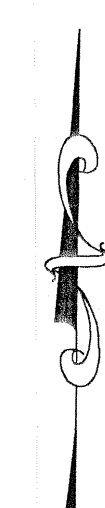
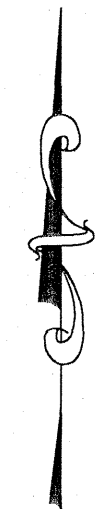
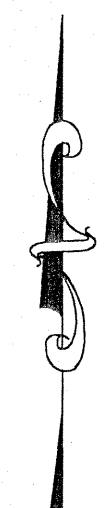
**C. S. O.
DETAILS**

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REVISION:

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JOB NUMBER
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RAO	DAL
REVISION	

C. S. O. DETAILS

**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

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ARCHITECTS • ENGINEERS • PLANNERS
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BOWLING GREEN, OHIO 43402

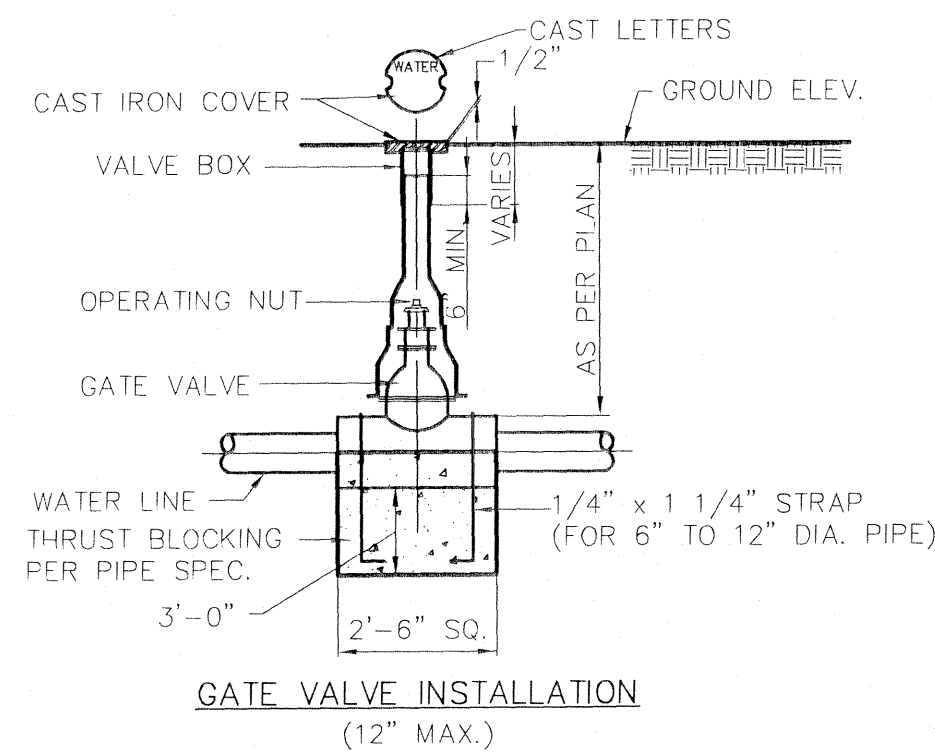
PLANNERS
BOWLING GREEN, OHIO 43402

ENGINEERS
(419) 352-7537

1168 NORTH MAIN STREET

15
— OF —
JOB NUMBER
1590-120

CONTRACT B



INSTALLATION OF VALVES
UNDER PRESSURE CONDITIONS, ALL VALVES (INCLUDING THOSE IN HYDRANT RUN-OUTS) REQUIRE ANCHORAGE AGAINST THRUST CREATED WHEN VALVE IS CLOSED. JOINT RESTRAINTS ARE REQUIRED EACH DIRECTION FROM VALVE FOR A DISTANCE (L_{de}). SEE JOINT RESTRAINT REQUIREMENTS FOR DEAD END LINES FOR THIS DISTANCE.

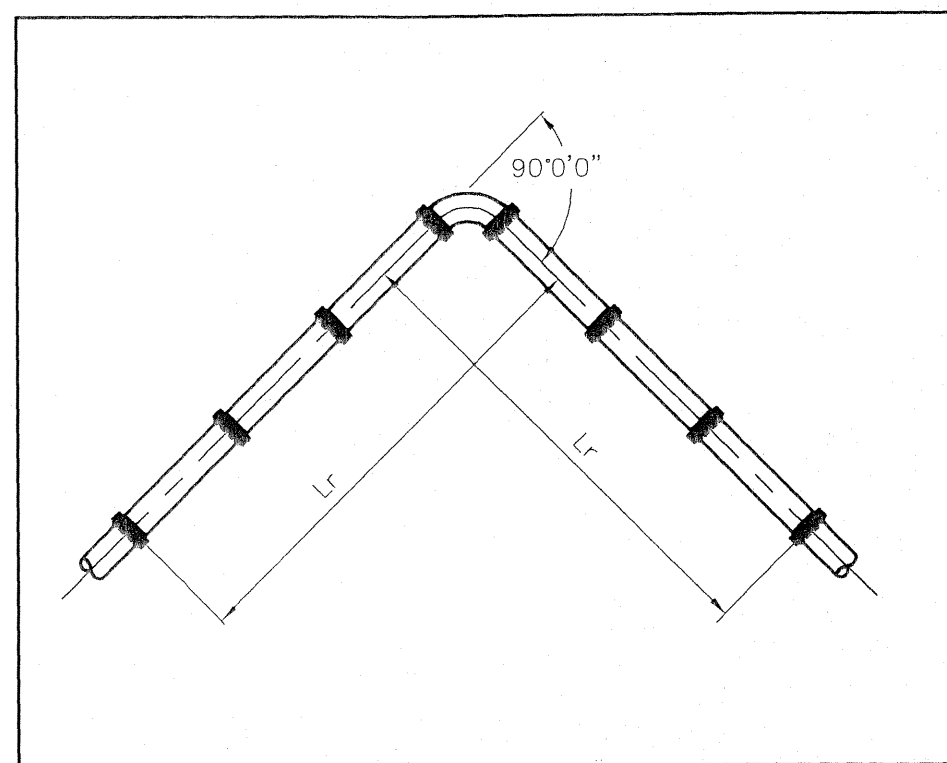


FIGURE 1. HORIZONTAL BEND

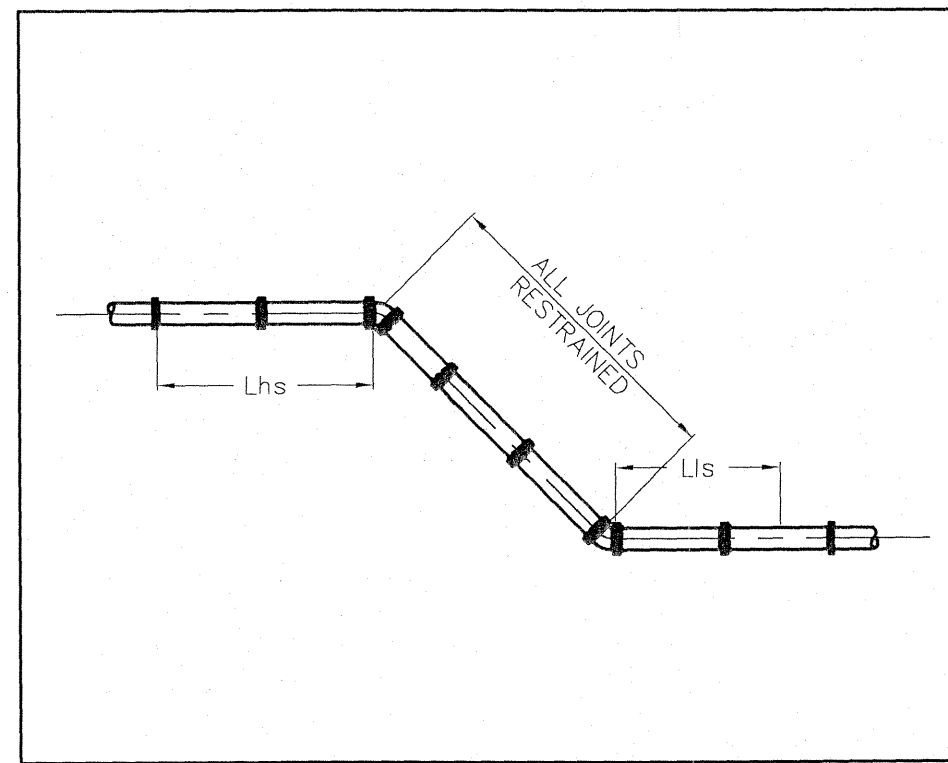


FIGURE 2. VERTICAL DOWN BEND AND OFFSET BEND

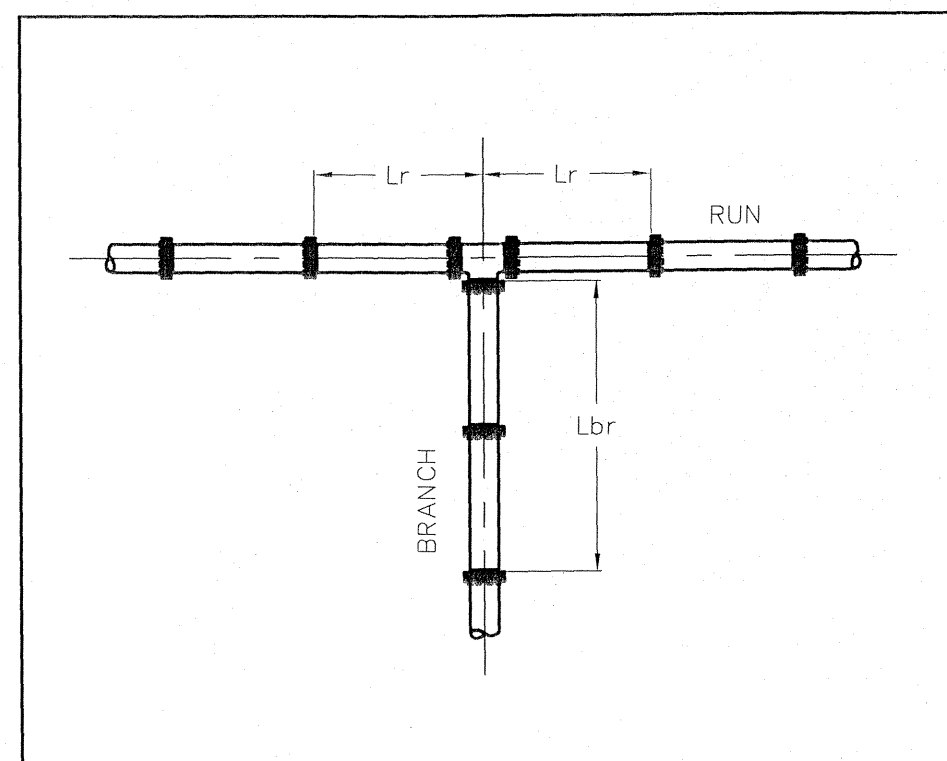


FIGURE 3. TEE

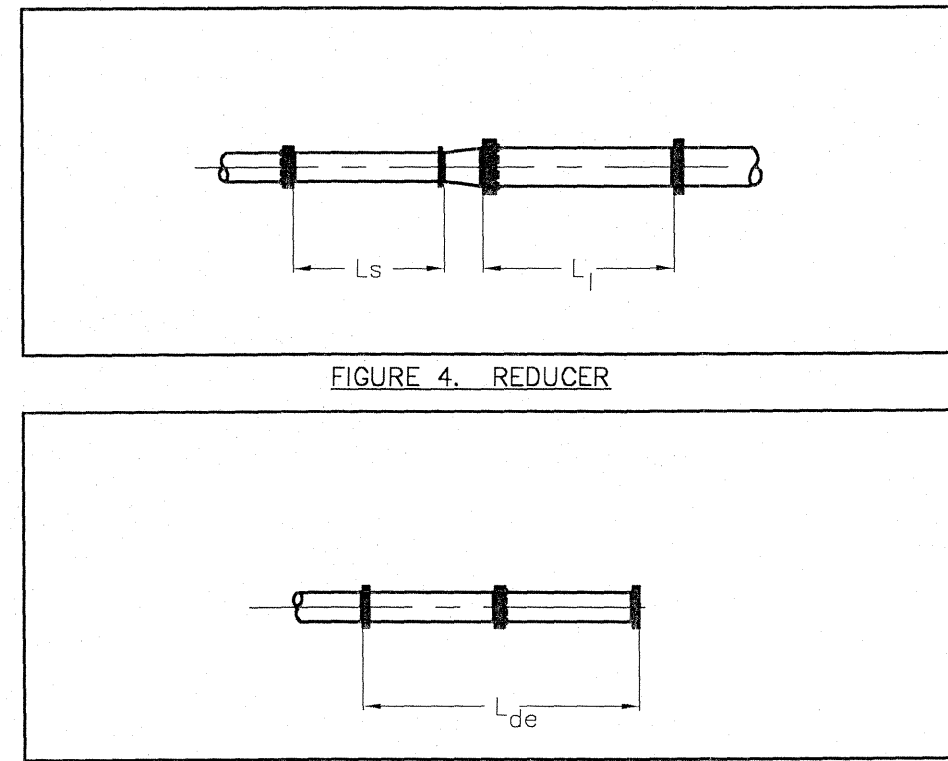


FIGURE 4. REDUCER

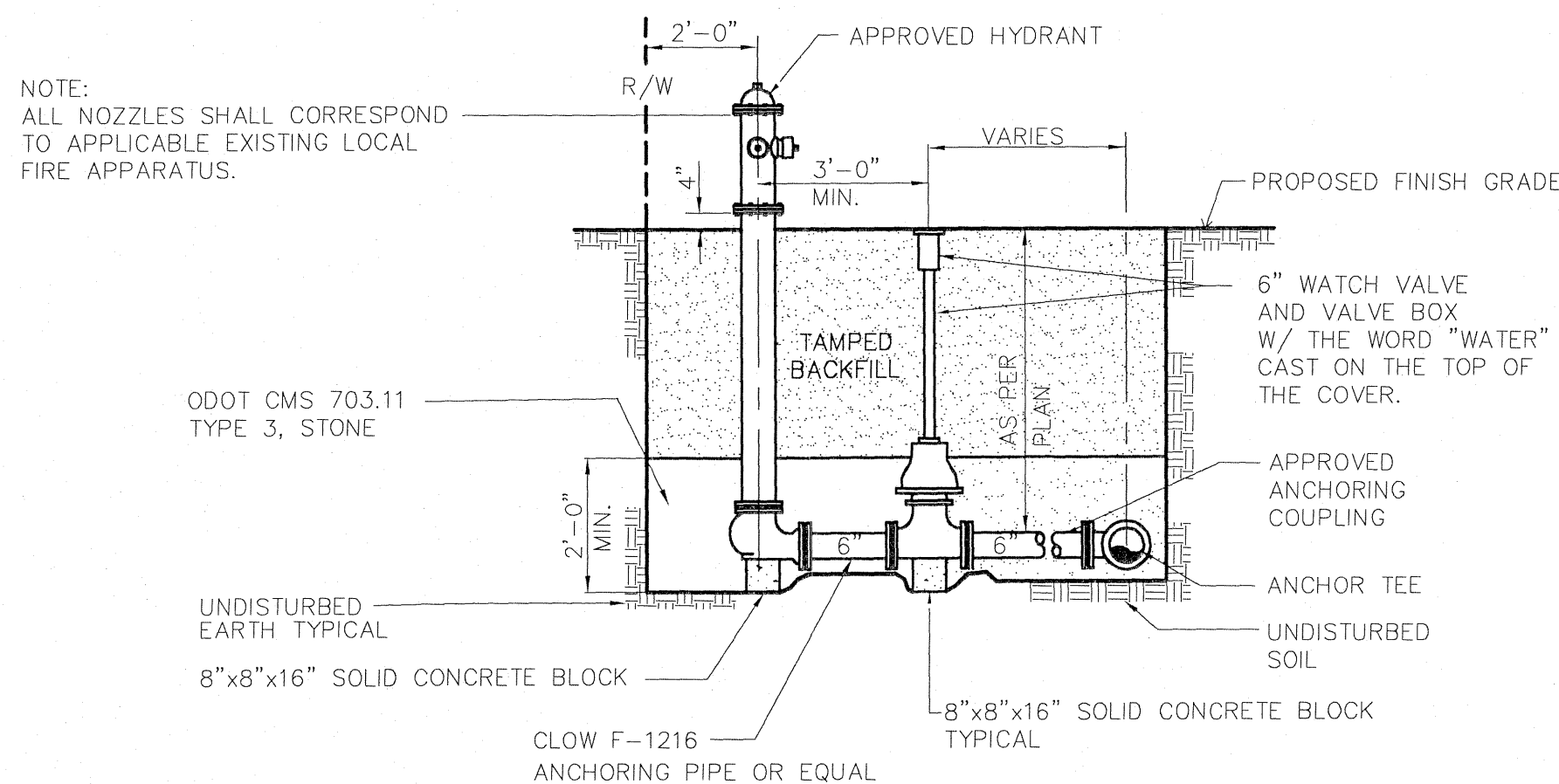
FIGURE 5. DEAD END

MINIMUM LENGTH OF PIPE RESTRAINED (FEET)									
SIZE	HORIZONTAL BENDS			VERTICAL BENDS			DEAD END		
	Lr	Lr	Lr	Lhs	Lls	Lhs	Lls	Lde	Lde
6"	20	8	4	18	6	9	3	44	
8"	26	11	5	24	8	11	4	58	
10"	32	13	6	29	10	14	5	69	
12"	37	16	7	34	12	16	6	82	
14"	43	18	9	39	13	19	6	94	
16"	48	20	10	44	15	21	7	106	
20"	59	24	12	53	19	26	9	129	
24"	69	29	14	62	22	30	11	151	

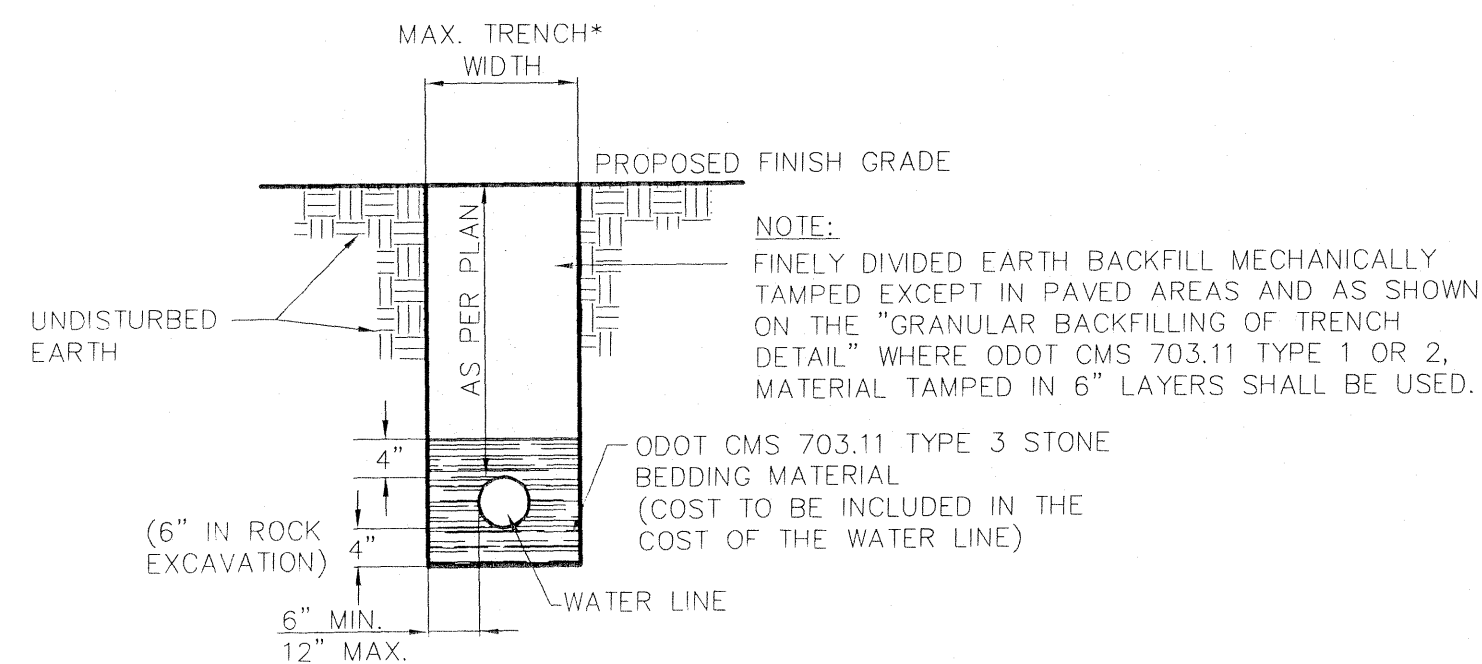
PVC PIPE									
SIZE	HORIZONTAL BENDS			VERTICAL BENDS			DEAD END		
	Lr	Lr	Lr	Lhs	Lls	Lhs	Lls	Lde	Lde
6"	21	9	4	12	6	3	3	28	
8"	27	11	5	15	8	7	4	37	
10"	33	14	7	18	10	9	5	44	
12"	39	16	8	22	12	10	6	52	
14"	44	18	9	25	13	12	6	60	
16"	50	21	10	28	15	13	7	68	
20"	61	25	12	34	18	16	9	82	
24"	72	29	14	40	22	19	10	96	

DUCTILE IRON									
SIZE	HORIZONTAL BENDS			VERTICAL BENDS			DEAD END		
	Lr	Lr	Lr	Lhs	Lls	Lhs	Lls	Lde	Lde
6"	36	15	7	28	11	14	5	68	
8"	48	20	10	37	15	18	7	89	
10"	57	24	11	44	18	21	9	107	
12"	68	28	13	52	21	25	10	126	
14"	78	32	15	60	24	29	12	144	
16"	88	36	17	67	27	32	13	163	
20"	107	44	21	82	33	39	16	198	
24"	125	52	25	96	39	46	19	232	

MECHANICAL RESTRAINTS
150 PSI
GROUND COVER = 4'

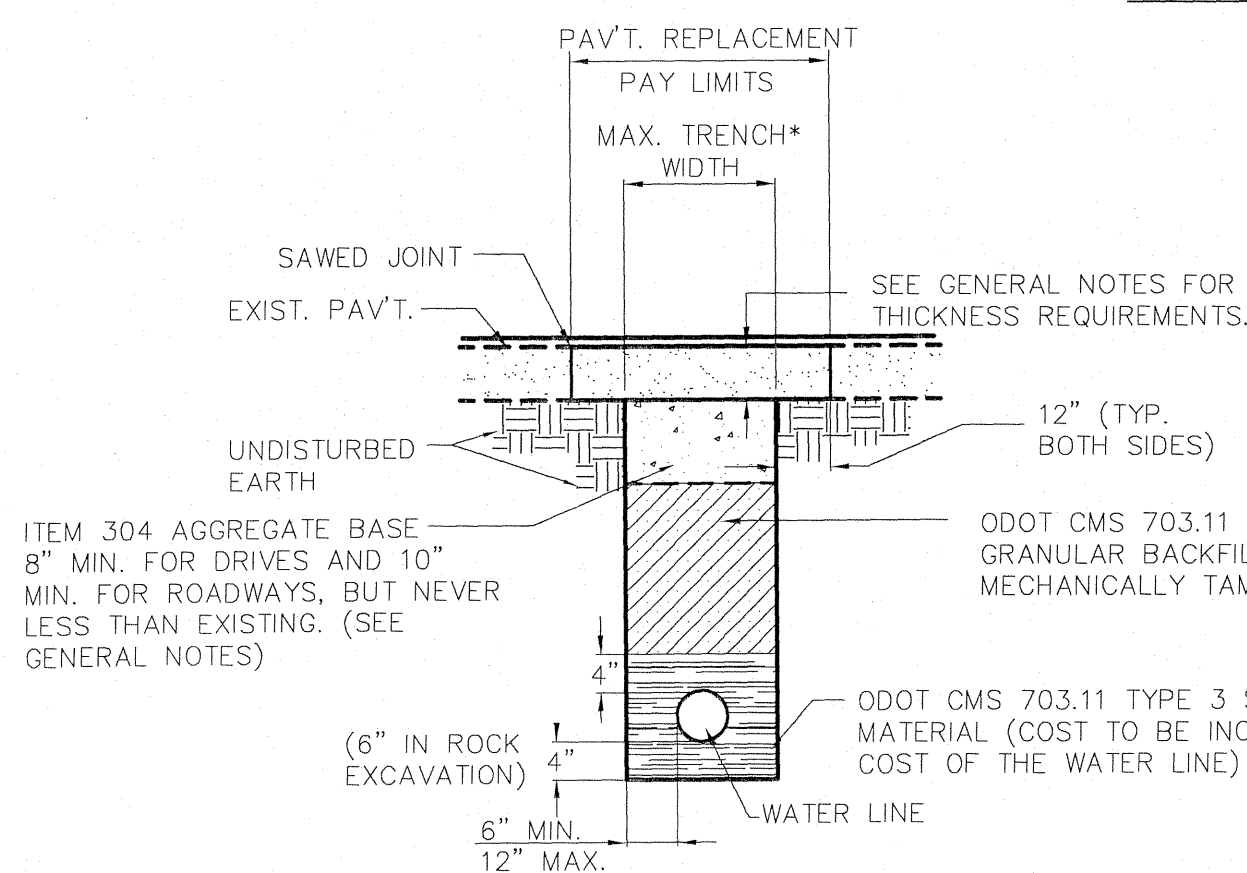


STANDARD HYDRANT ASSEMBLY - TYPE "A"
PERPENDICULAR TO WATER MAIN



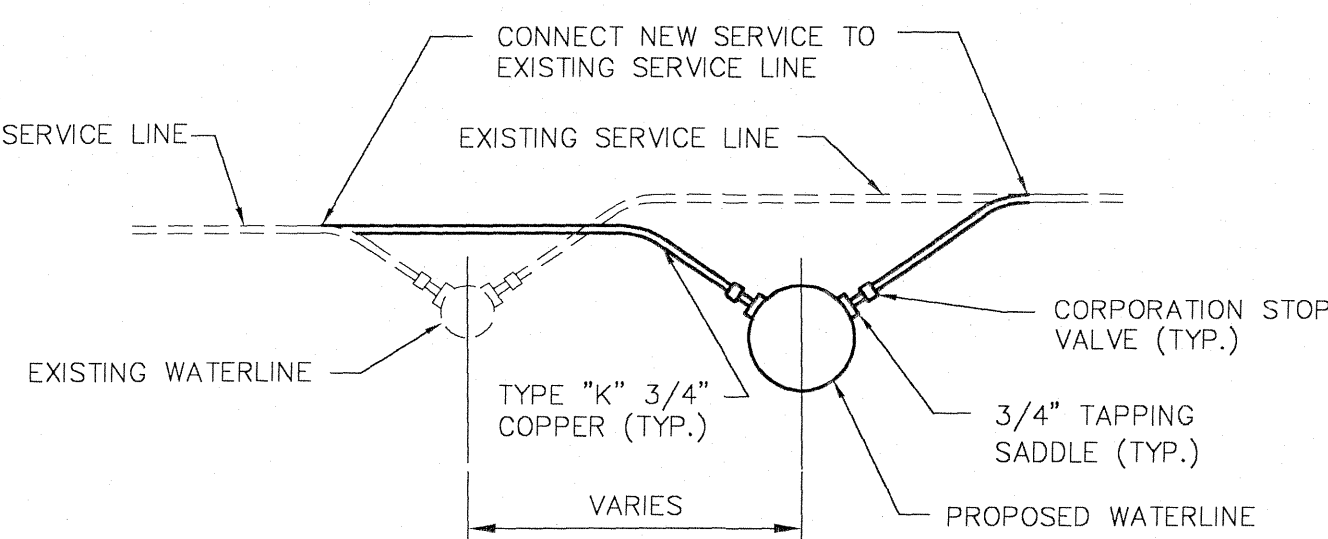
P.V.C. WATER LINE TRENCH DETAIL

* FOR PAY LIMITS ONLY, MAXIMUM TRENCH WIDTH SHALL BE THE SAME AS THE TRENCH WIDTH AT THE TOP OF THE PIPE.



WATERLINE TRENCH DETAIL IN ASPHALT PAVEMENT

* FOR PAY LIMITS ONLY, MAXIMUM TRENCH WIDTH SHALL BE THE SAME AS THE TRENCH WIDTH AT THE TOP OF THE PIPE.



PROPOSED WATER SERVICE CONNECTION

RUN SIZE									
6"	8"	10"	12"	14"	16"	20"	24"		
6"	*	*	*	*	*	*	*	Lbr	
8"	*	*	*	*	*	*	*		
10"	30	18	5	*	*	*	*		
12"	49	39	28	18	7	*	*		
14"	66	57	1	39	30	20	1	*	
16"	81	74	66	58	50	42	25	8	
20"	110	104	97	91	85	78	65	51	
24"	135	130	125	120	115	109	98	87	

TEES
PVC PIPE
MINIMUM LENGTH OF PIPE RESTRAINED (FEET) (L_{br})

RUN SIZE									
6"	8"	10"	12"	14"	16"	20"	24"		
6"	9	3	*	*	*	*	*	Lbr	
8"	22	18	13	8	3	*	*		
10"	33	29	25	21	17	13	5	*	
12"	42	39	36	33	30	26	20	13	
14"	51	49	46	43	41	38	32	26	
16"	60	58	56	53	51	48	43	38	
20"	76	75	73	71	69	67	63	59	
24"	91	90	88	87	85	84	80	77	

TEES
DUCTILE IRON PIPE
MINIMUM LENGTH OF PIPE RESTRAINED (FEET) (L_{br})

RUN SIZE									
6"	8"	10"	12"	14"	16"	20"	24"		
6"	21	7	*	*	*	*	*	Lbr	
8"	53	42	31	19	7	*	*		
10"	79	70	60	51	42	32	12	*	
12"	102	95	87	80	72	64	47	30	
14"	124	118	111	105	98	91	77	63	
16"	145	140	134	128	122	116	104	92	
20"	184	180	175	171	166	161	152	142	
24"	220	217	213	209	205	202	194	186	

TEES
DUCTILE IRON PIPE W/ POLYETHYLENE WRAP
MINIMUM LENGTH OF PIPE RESTRAINED (FEET) (L_{br})
MINIMUM LENGTH 10' OF PIPE RESTRAINED (FEET) (L_r)

LARGE SIZE									
6"	8"	10"	12"	14"	16"	20"	24"		
6"	32	24	17	11	7	4	3	L _r	
8"	43	32	23	15	10	6	4		
10"	54	40	29	19	13	8	5		
12"	65	48	35	24	16	10	6		
14"	76	57	42	29	19	12	7		
16"	87	66	49	34	22	14	8		
20"	108	81	60	42	28	17	10		
24"	129	98	73	51	34	21	13		

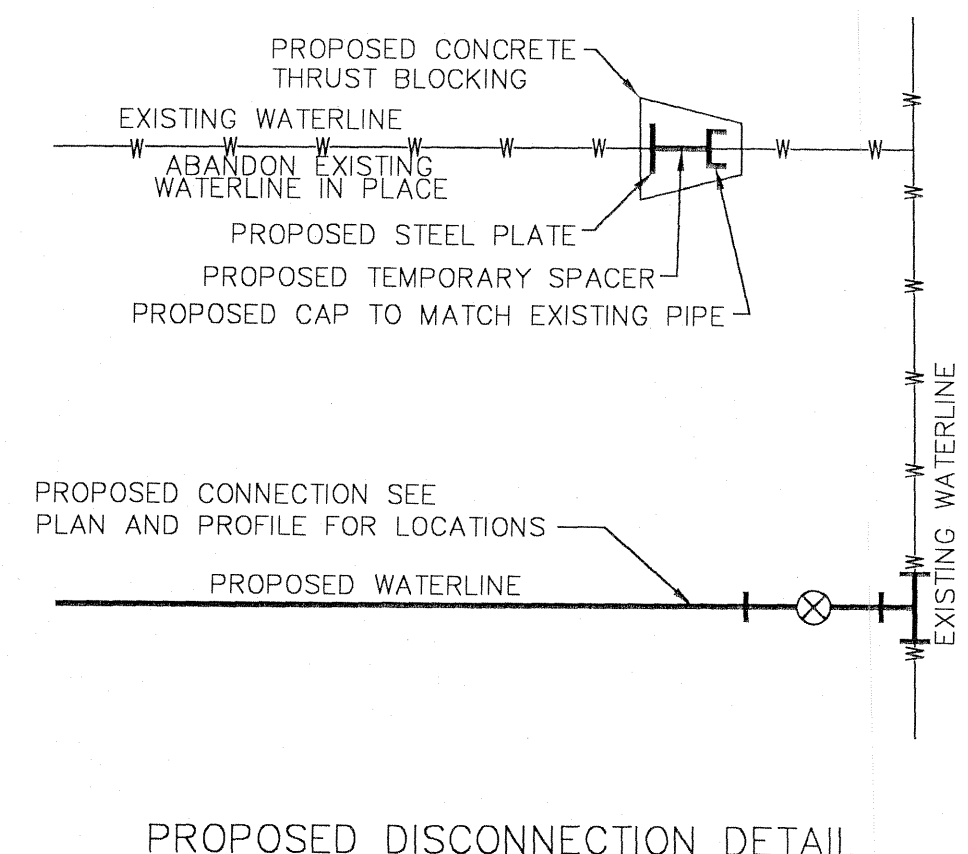
REDUCERS
PVC PIPE
MINIMUM LENGTH OF PIPE RESTRAINED (L_r) (FEET)

LARGE SIZE									
6"	8"	10"	12"	14"	16"	20"	24"		
6"	16	12	9	6	4	3	2	L _r	
8"	21	16	12	8	5	4	3		
10"	26	20	15	10	7	5	4		
12"	31	24	18	12	8	6	5		
14"	36	28	21	14	10	7	6		
16"	41	32	24	16	11	8	7		
20"	51	40	30	20	14	10	9		
24"	61	48	36	24	17	12	11		

REDUCERS
DUCTILE IRON PIPE
MINIMUM LENGTH OF PIPE RESTRAINED (L_r) (FEET)

LARGE SIZE									
6"	8"	10"	12"	14"	16"	20"	24"		
6"	16	12	9	6	4	3	2	L _r	
8"	21	16	12	8	5	4	3		
10"	26	20	15	10	7	5	4		
12"	31	24	18	12	8	6	5		
14"	36	28	21	14	10	7	6		
16"	41	32	24	16	11	8	7		
20"	51	40	30	20	14	10	9		
24"	61	48	36	24	17	12	11		

L_s - IF A SPECIFIED LENGTH OF PIPE, L_s (FEET), ON THE SMALL SIDE OF THE REDUCER IS FREE OF BENDS, VALVES, TEES OR OTHER FITTINGS, RESTRAINTS ARE NOT NECESSARY FOR THE REDUCER; OTHERWISE THE LARGER SIDE OF THE REDUCER SHALL BE RESTRAINED THE MINIMUM LENGTH (L_r) (FEET).

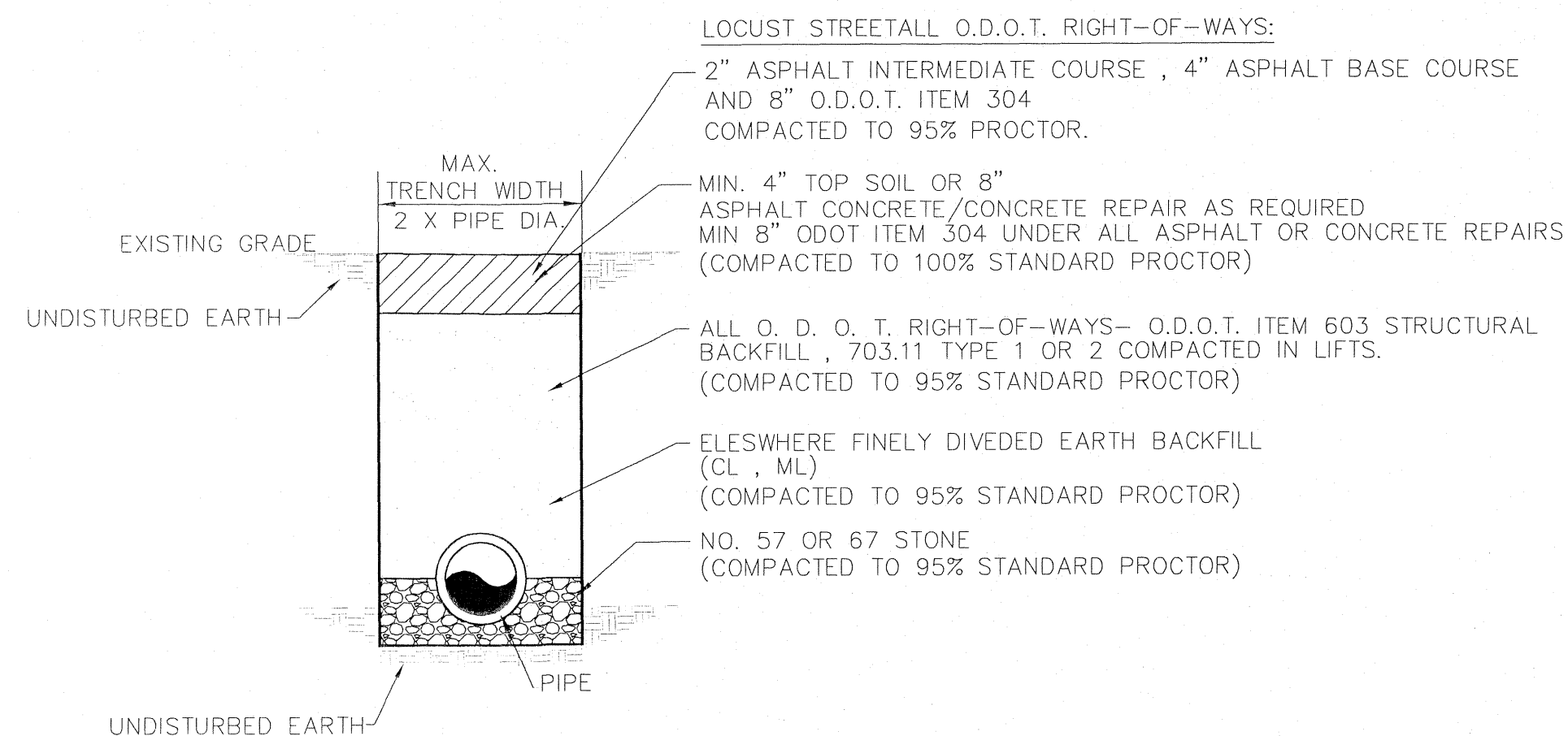


PROPOSED DISCONNECTION DETAIL

UNDERGROUND UTILITIES
TWO WORKING DAYS
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Call 1-800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
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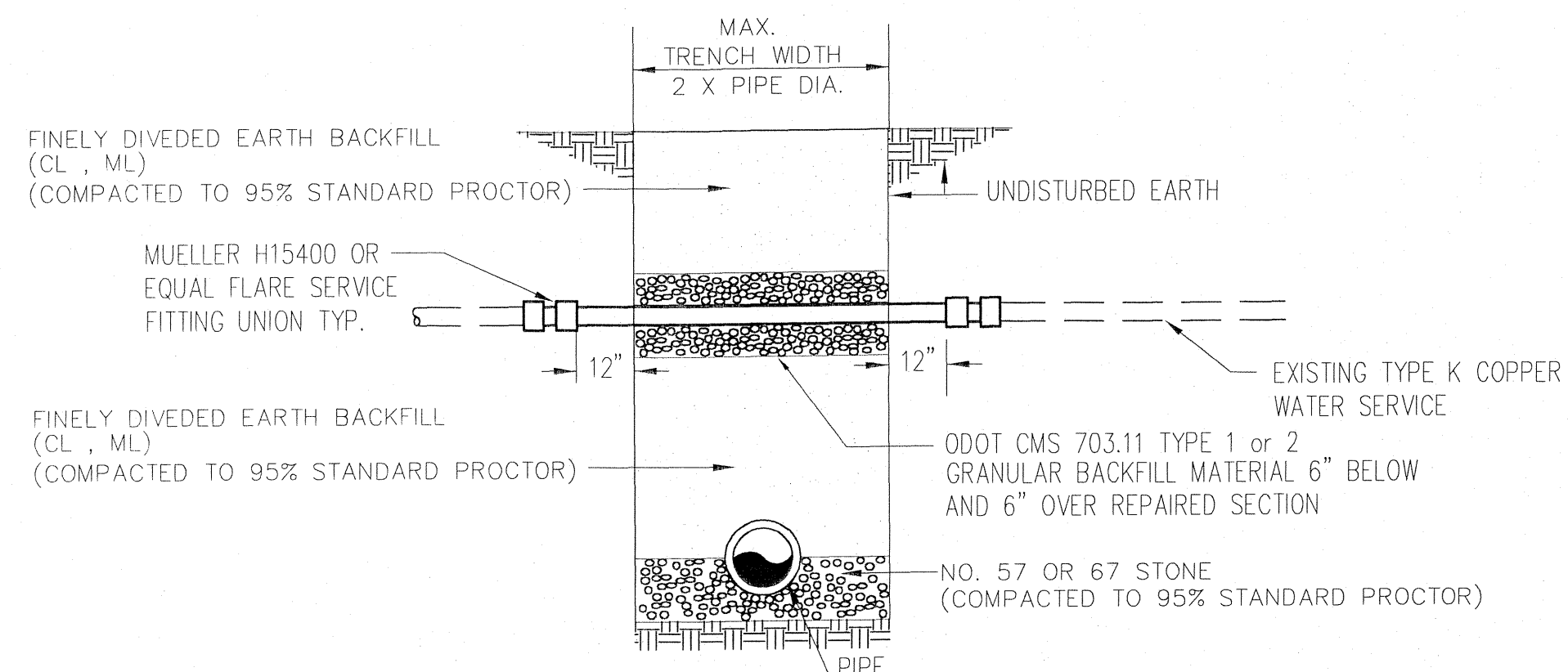
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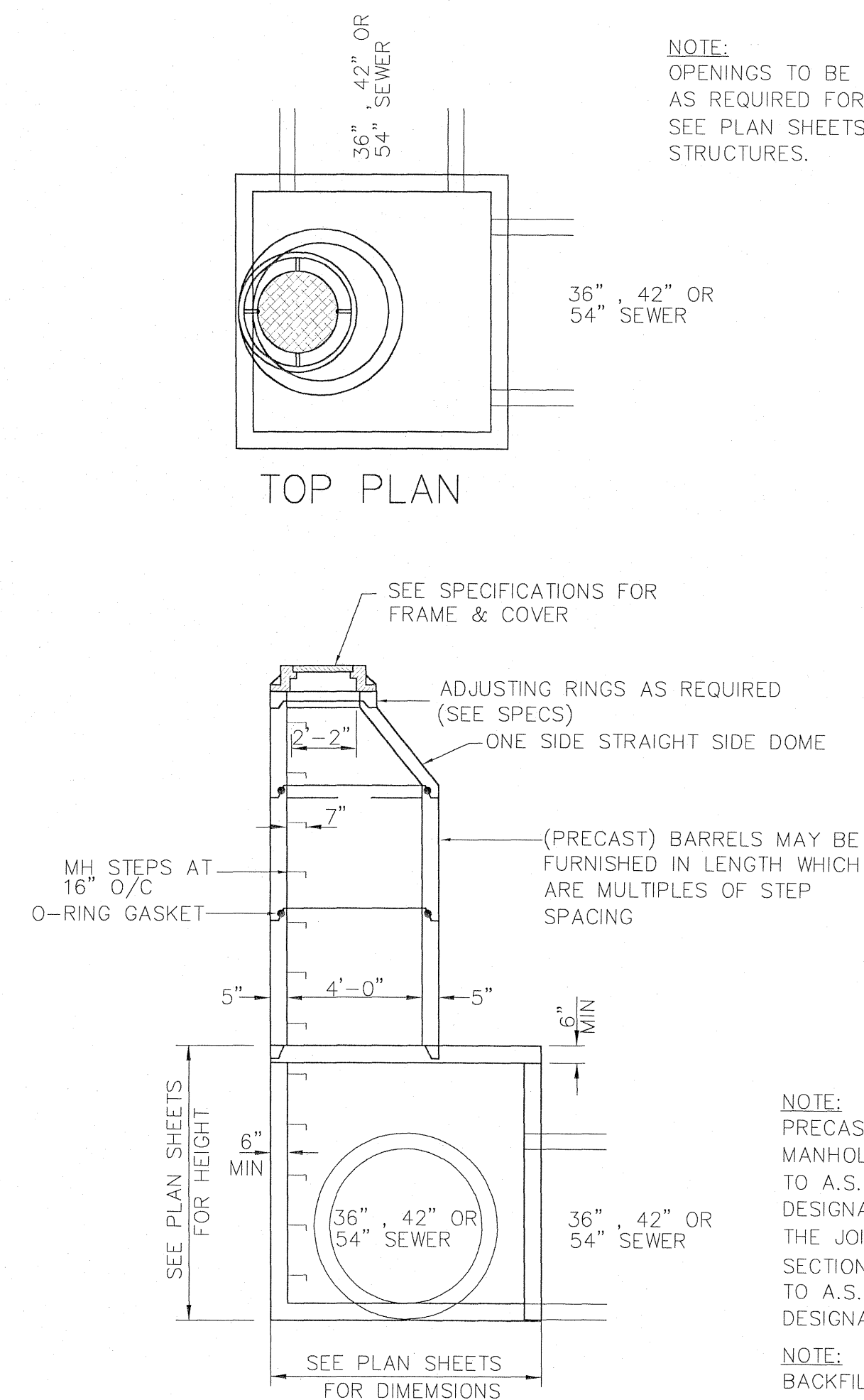
SEWER TRENCH DETAIL

N.T.S.



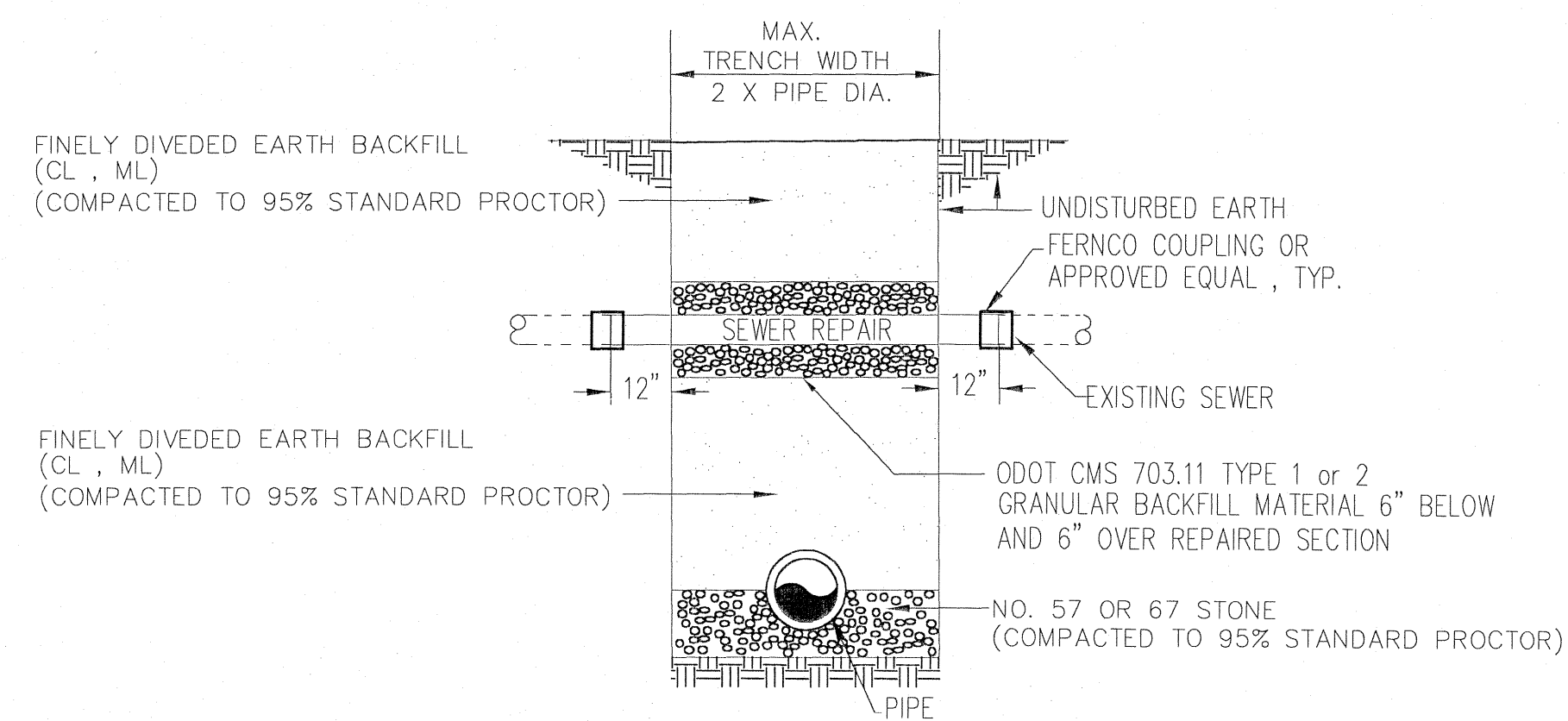
COPPER WATER SERVICE LINE (TYPE K) REPAIR DETAIL

N.T.S.



NOTE:
PRECAST SANITARY
MANHOLES SHALL CONFORM
TO A.S.T.M. SPEC'S.
DESIGNATION C-478 AND
THE JOINTS BETWEEN THE
SECTIONS SHALL CONFORM
TO A.S.T.M. SPEC'S.
DESIGNATION C-443.

NOTE:
BACKFILL AROUND NEW STRUCTURES
SHALL BE ODOT 703.11 TYPE 1 OR
TYPE 2 MIN. 6" BELOW AND 4" EACH SIDE.
BACKFILL TO EXTEND TO EXISTING GRADE.



SEWER REPAIR OVER SANITARY SEWER

N.T.S.

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**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY, OHIO**

**SEWER
DETAILS**

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REVISION

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OF

JOB NUMBER
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CONTRACT B

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STORM WATER POLLUTION PREVENTION PLAN (SWP3)
FOR
CSO IMPROVEMENTS
INTERCEPTOR SEWER
PORTAGE STREET
OAK HARBOR, OTTAWA COUNTY, OHIO
JUNE 2007

CONSTRUCTION SITE STORM WATER MANAGEMENT REQUIREMENTS
INTRODUCTION
ALL STORM WATER POLLUTION PREVENTION PROVISIONS PROVIDED WITH THESE CONSTRUCTION
DRAWINGS REFLECT THE OHIO EPA REQUIREMENTS FOR CONSTRUCTION STORM WATER
MANAGEMENT AND EROSION AND SEDIMENT CONTROL. TO ENSURE COMPLIANCE, THIS PLAN
WAS PREPARED IN ACCORDANCE WITH THE OHIO EPA'S NPDES GENERAL PERMIT FOR STORM
WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (NO. OH0000002). THIS PLAN
PROVIDES FOR CONSTRUCTION STORM WATER MANAGEMENT AND EROSION AND SEDIMENT
CONTROL FOR THE EXTENT OF CONSTRUCTION AS DEFINED IN PROJECT DESCRIPTION BELOW.

THE CONTRACTOR SHALL OR SHALL CAUSE THE INSTALLATION AND MAINTENANCE TO OCCUR IN
CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN AND ALL REGULATIONS ENFORCED BY
THE OHIO EPA AND ITS AGENTS. THE CONTRACTOR HEREBY ACKNOWLEDGES THAT HE HAS
REVIEWED THE PLAN AND UNDERSTANDS THE REQUIREMENTS OF THE NPDES PERMIT FOR THIS
PROJECT. FURTHER, THE CONTRACTOR UNDERSTANDS HIS RESPONSIBILITY TO INSTALL AND
MAINTAIN THE APPROPRIATE MEASURES TO MINIMIZE POLLUTION AND THAT FAILURE TO DO SO
COULD RESULT IN STOP WORK ORDERS, FINES, AND IMPRISONMENT. PRIOR TO STARTING ANY
WORK AT THE SITE, THE CONTRACTOR SHALL SUBMIT HIS CONSTRUCTION SCHEDULE AND THE
RELATED EROSION METHODS FOR REVIEW BY THE ENGINEER.

PROJECT DESCRIPTION
THE PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 550 LF. OF SANITARY
SEWER WHICH WILL DRAIN INTO A CSO BASIN PRIOR TO SANITARY SEWAGE TREATMENT. THIS
PROJECT WILL DISTURB APPROXIMATELY 0.25 ACRES OF LAND WITHIN OAK HARBOR'S
RIGHT-OF-WAY DURING THE INSTALLATION OF THE PIPE.

SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; PERIMETER AND OTHER
EROSION/SEDIMENT CONTROLS; SITE GRADING; EXCAVATION FOR THE UNDERGROUND
UTILITIES; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

PROJECT DRAINAGE

POST-CONSTRUCTION DRAINAGE PATTERNS ALONG THE PROJECT CORRIDOR WILL NOT BE
ALTERED FROM PRE-CONSTRUCTION DRAINAGE PATTERNS. SITE CONDITIONS WILL BE
RESTORED TO PRE-CONSTRUCTION CONDITIONS. BECAUSE NO IMPERVIOUS SURFACE AREA
WILL BE ADDED TO THE SITE, NO POST CONSTRUCTION STORMWATER MANAGEMENT IS
REQUIRED. THE COEFFICIENT OF RUNOFF FOR THE SITE PRIOR TO AND AFTER THE STORM
SEWER INSTALLATION IS ESTIMATED TO BE 0.10.

PROJECT SOILS AND DISCHARGE
A GEOTECHNICAL SUBSURFACE INVESTIGATION WAS PERFORMED BY BOWSER MORNER IN MARCH
OF 2006 AND SHALL BE CONSIDERED PART OF THIS PLAN. ANTICIPATED QUALITY OF
DISCHARGE FROM THE SITE DURING CONSTRUCTION SHOULD NOT BE SIGNIFICANTLY DIFFERENT
FROM THAT EXPERIENCED FROM PREVIOUS AGRICULTURAL ACTIVITIES WHICH OCCURRED ON THE
SITE, SUCH AS PLOWING, DISCING, AND OTHER FIELD PREPARATION ACTIVITIES.

CONSTRUCTION SEQUENCE OF MAJOR TASKS AND EROSION CONTROL MEASURES
THE ORDER OF ACTIVITIES FOR EACH PLAT CONSTRUCTION WILL BE AS FOLLOWS:

1. INSTALL SILT FENCE WHERE INDICATED AND WHERE REQUIRED.
2. CLEAR AND GRUB SITE.
3. CONSTRUCT NEW SANITARY SEWER.
4. INSTALL UNDERGROUND UTILITIES.
5. COMPLETE FINAL GRADING AND INSTALL PERMANENT SEEDING AND PLANTINGS.

6. MAINTAIN NECESSARY EROSION AND SEDIMENT CONTROLS AND VEGETATIVE MATERIAL
UNTIL 70% OF AREA IS COVERED WITH AN EVENLY DISTRIBUTED GOOD GROWTH OF
PERENNIAL VEGETATION.

7. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AND REMOVE ACCUMULATED
SEDIMENT FROM STORM WATER MANAGEMENT AREAS.

8. RESEED AREAS DISTURBED BY REMOVAL ACTIVITIES.

9. CLEAN DITCHES/SWALES, CULVERTS, AND STORM SEWER SYSTEMS OF ALL ACCUMULATED
SEDIMENT.

ENVIRONMENTAL MITIGATION

EROSION AND SEDIMENTATION CONTROL

1. EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSTALLED TO NATURAL
RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATIONS.
THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING
CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
2. CLEARING AND GRUBBING SHALL NOT COMMENCE UNTIL THE CONTRACTOR IS PREPARED
TO START CONSTRUCTION.
3. SEDIMENT BASINS AND DIVERSION DIKES SHALL BE CONSTRUCTED BEFORE DISTURBING
THE LAND THAT DRAINS INTO THEM.
4. DIVERSION CHANNELS SHALL BE CONSTRUCTED AROUND THE CONSTRUCTION SITE TO
COLLECT RUNOFF AND PREVENT SILT AND OTHER ERODED MATERIALS FROM ENTERING
LOCAL DRAINAGE COURSES. DIVERSION CHANNELS SHALL BE STABILIZED BY SEEDING OR
RIP-RAP OR LINED WITH PLASTIC, AND FLOW TO TEMPORARY SILT BASINS.
5. EXISTING TOPSOIL THAT IS TO BE REUSED SHALL BE STOCKPILED AND REPLACED UPON
FINAL GRADING. STOCKPILED TOPSOIL SHALL BE PROTECTED WITH SILT BARRIERS AND
TEMPORARY SEEDING OR A COVERING SUCH AS ANCHORED STRAW MULCH.
6. EXCESS SOIL THAT IS STOCKPILED SHALL BE EITHER REMOVED OR PERMANENTLY
STABILIZED WITHIN 15 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPHILL SIDE OF TRENCHES.
8. ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED FOR
CONSTRUCTION MAY BE REMOVED; PROTECT THE REST TO PRESERVE THEIR AESTHETIC, HABITAT, AND
EROSION CONTROL VALUES.
9. DISTURBED LAND EXPOSED LONGER THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY
SEEDING AND MULCHING OR MULCHING ALONE.
10. AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED AREA WITH
PERENNIAL VEGETATION. IF FINAL GRADING AND SEEDING WILL NOT OCCUR WITHIN 30
DAYS, ALL DISTURBED AREAS SHALL BE TEMPORARILY SEEDD AND/OR MULCHED
IMMEDIATELY.
11. FINAL GRADING SHALL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO
MAINTAIN DRAINAGE AND AESTHETICS.
12. NO MORE THAN 200 FEET OF TRENCH SHALL BE OPEN AT ANY TIME. MINIMIZE THE
AREA DISTURBED FOR TRENCH OPENING, LAYING OF PIPE, AND BACKFILLING.
13. TRENCHES SHALL BE BACKFILLED IMMEDIATELY; COMPACT AND SEED AND/OR MULCH
TRENCHES IN UNPAVED AREAS WITHIN 15 DAYS AFTER THEY HAVE BEEN OPENED.

14. LARGE-SCALE CONSTRUCTION SHALL BE RESEEDD IN STAGES TO PREVENT EROSION
WHEN SEASONAL CONDITIONS PERMIT. WITHIN 15 DAYS AFTER A SPAN HAS BEEN
COMPLETED, THE CONTRACTOR SHALL PLACE ALL TOPSOIL, FINE GRADE, SEED, FERTILIZE,
AND MULCH ALL AREAS DISTURBED BY ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION
OF THAT SECTION OF PIPE.
15. SLOPES EXCEEDING 15 PERCENT OR TENDING TO BE UNSTABLE SHALL BE STABILIZED
WITH WATER DIVERSION BERMS, SODDING, OR THE USE OF JUTE OR EXCELSIOR BLANKETS.
16. WHEN BORROW MATERIAL IS OBTAINED FROM OTHER THAN COMMERCIAL SOURCES,
CONTROL EROSION OF THE BORROW SITE DURING AND AFTER THE WORK TO PREVENT
SEDIMENT FROM ENTERING STREAMS OR OTHER WATER BODIES. WASTE OR DISPOSAL
AREAS AND CONSTRUCTION ROADS SHALL BE LOCATED AND CONSTRUCTED IN A MANNER
THAT SHALL KEEP SEDIMENT FROM ENTERING STREAMS.
17. UNPAVED AREAS SHALL BE WET DOWN AS NECESSARY USING WATER OR OTHER
ENVIRONMENTALLY BENIGN SUBSTANCE DURING CONSTRUCTION TO MINIMIZE DUST.
18. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL
EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE
SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE
SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE
CONTRACTOR SHALL PLACE TOPSOIL, FINE GRADE, SEED, FERTILIZE, AND MULCH ALL
DISTURBED AREAS LEFT EXPOSED WHEN WORK IS STOPPED.
19. WHEN WORKING ADJACENT TO A WATERWAY, THE CONTRACTOR SHALL INSTALL SILT
BARRIERS TO PREVENT SEDIMENT-LOADED RUNOFF FROM ENTERING THE WATERWAY.
20. MATERIAL EXCAVATED FROM BORING PITS (FOR JACK AND BORE LOCATIONS) SHALL BE
SURROUNDED WITH SILT BARRIERS AT SUFFICIENT DISTANCE TO ENSURE THEIR INTEGRITY
AND EFFECTIVENESS.
21. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL, AND DEBRIS THAT MAY BE TRACKED
ONTO EXISTING STREETS, DRIVES, OR WALKS BY HIS EQUIPMENT OR THAT OF
SUBCONTRACTORS OR SUPPLIERS.
22. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN
ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL
REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD
PLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT
THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE
AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.

TRAFFIC CONTROL

1. ONE LANE OF TRAFFIC SHALL BE MAINTAINED ALONG THE TRAVEL ROUTE TO THE
CONSTRUCTION SITE IF POSSIBLE. IF NOT POSSIBLE TO MAINTAIN TRAFFIC DURING
CONSTRUCTION, DETOURS SHALL BE ARRANGED WITH STATE AND LOCAL AUTHORITIES, AS
REQUIRED.
2. LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.
3. NO TRENCH SHALL BE LEFT OPEN AT THE END OF THE WORK DAY.
4. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES,
WARNING SIGNS, DANGER SIGNALS, FLAGGERS, WATCHERS, AND ALL OTHER APPROPRIATE
PRECAUTIONS NECESSARY TO THE PROTECTION OF THE WORK AND FOR SAFETY OF THE
PUBLIC.

AIR POLLUTION/NOISE CONTROL

1. CONSTRUCTION SHALL BE LIMITED TO DAYTIME HOURS, MONDAY THROUGH FRIDAY.
2. CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS.
3. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSIONS CONTROL
EQUIPMENT.
4. ALL EQUIPMENT AND MACHINERY SHALL BE MAINTAINED TO MINIMIZE EXHAUST EMISSIONS
AND NOISE.

TREES/VEGETATION PROTECTION

1. TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION.
2. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER OR ENGINEER.
3. TREES WHICH ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM INJURY BY TREES
BEING FELLED.
4. SOIL AND OTHER MATERIAL SHALL NOT BE STORED NEXT TO OR WITHIN THE DRIP-LINE
OF TREES.
5. LANDSCAPING SHALL BE PRESERVED IF POSSIBLE. DAMAGED VEGETATION SHALL BE
REPLACED "IN-KIND".
6. THE CONTRACTOR SHALL REPAIR ALL INJURIES TO BARK, TRUNKS, LIMBS, AND ROOTS OF
REMAINING VEGETATION BY PROPERLY DRESSING, CUTTING, AND BRACING, USING ONLY
APPROVED TREE SURGERY METHODS, TOOLS, AND MATERIALS. WHEN ROOTS ARE
DAMAGED DURING EXCAVATION, THE ABOVE-GROUND PORTION OF THE TREE SHALL BE
PRUNED TO COMPENSATE.
7. SELECTIVE PRUNING OF TREE LIMBS PRIOR TO CONSTRUCTION SHALL ONLY BE DONE
WITHIN ESTABLISHED EASEMENTS WHERE REMOVAL IS NECESSARY FOR OPERATION OF
EQUIPMENT.
8. ALL PRUNING SHALL BE DONE BY A QUALIFIED ARBORIST.

DEWATERING

1. ALL DEWATERING FLOWS SHALL BE DIRECTED THROUGH FILTERING DEVICES BEFORE
DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS, NOT ONTO
EXPOSED SOILS, STREAM BANKS, OR ANY OTHER SITE WHERE THE FLOW COULD CAUSE
EROSION.
2. SILT FROM CONSTRUCTION SITES SHALL NOT BE PERMITTED TO ENTER STORM SEWERS.
WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, INLET FILTERS SHALL BE
USED TO PREVENT SILT FROM ENTERING THE STORM SEWERS.
3. ALL WATER SHALL BE CONVEYED FROM THE CONSTRUCTION SITE IN A CLOSED CONDUIT.
DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

PROHIBITED CONSTRUCTION ACTIVITIES

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL OR TREES, BRUSH, AND
OTHER DEBRIS IN ANY STREAM CORRIDOR, ANY WETLANDS, ANY SURFACE WATERS, OR AT
UNSPECIFIED LOCATIONS.
2. STOCKPILING MATERIALS OR STORING CONSTRUCTION EQUIPMENT AND VEHICLES ON
PROPERTY NOT SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
3. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM
CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
4. PUMPING OF SEDIMENT-LOADED WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY
INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM
SEWERS; ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT
PRIOR TO RELEASE.
5. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS
MATERIALS, RAW SEWAGE, OR OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS,
STREAMS, IMPOUNDMENTS, OR INTO ANY NATURAL OR MAN-MADE CHANNELS.

6. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.

7. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

9. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING
FROM BREAKING, CUTTING, CHIPPING, DRILLING, BUFFING, GRINDING, POLISHING,
SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR
COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC, OR PUBLIC PLACES OF HUMAN OCCUPATION.

10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR
PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE
PROPERTY OWNER AND THE CONSENT OF THE ENGINEER.

11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE
HOURS OF 8:00 A.M. TO 5:00 P.M. WEEKDAYS OR OUTSIDE THE HOURS ALLOWED FOR
CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.

12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR
BOULEVARD WITHOUT THE PRIOR CONSENT OF THE OWNER, ENGINEER, AND OTHER
GOVERNING AUTHORITIES.

13. RESTRICTING ACCESS TO ANY PRIVATE DRIVE OR BUSINESS WHERE ALTERNATE ACCESS IS
NOT AVAILABLE.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES
THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED
AREAS (INCLUDING TOPSOIL STOCKPILES) NOT WITHIN 50 FEET OF A STREAM OR DITCH WITHIN
SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS.
FOR AREAS WITHIN 50 FEET OF ANY STREAM OR DITCH, SOIL STABILIZATION PRACTICES SHALL
BE INITIATED WITHIN TWO (2) DAYS ON ALL DISTURBED AREAS IF THEY ARE TO REMAIN
DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS. PERMANENT SOIL STABILIZATION SHALL
BE APPLIED TO DISTURBED AREAS NOT WITHIN 50 FEET OF A STREAM OR DITCH WITHIN SEVEN
(7) DAYS AFTER FINAL GRADE IS REACHED AND WITHIN 2 DAYS FOR AREAS LESS THAN 50
FEET FROM A STREAM OR DITCH, ON ANY PORTION OF THE SITE. WHEN SEASONAL
CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING,
NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING WILL BE
USED.

SEEDING-

THE TEMPORARY SEED MIX SHALL BE 100% ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)
APPLIED AT THE RATE OF TWO (2) POUNDS PER 1,000 SQUARE FEET. PRIOR TO SEEDING,
TEN (10) POUNDS OF 12-12-12 FERTILIZER SHALL BE APPLIED TO EACH 1,000 SQUARE
FEET TO BE STABILIZED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH STRAW AT
A RATE OF TWO (2) TONS PER ACRE OR THREE (3) TONS PER ACRE IF SEEDING OCCURS
BETWEEN OCTOBER 31 AND MARCH 14.

THE PERMANENT SEED MIX SHALL CONSIST OF 40% KENTUCKY BLUEGRASS (POA
PRATENSIS), 40% CREEPING RED FESCUE (FESTUCA RUBRA), AND 20% ANNUAL RYEGRASS
(LOLIUM MULTIFLORUM). THIS MIX SHALL BE APPLIED AT THE RATE OF THREE (3) POUNDS
PER 1,000 SQUARE FEET. PRIOR TO SEEDING, TWENTY (20) POUNDS OF 12-12-12
FERTILIZER SHALL BE APPLIED TO EACH 1,000 SQUARE FEET TO BE STABILIZED. AFTER
SEEDING, EACH AREA SHALL BE MULCHED WITH STRAW AT A RATE OF TWO (2) TONS PER
ACRE THREE (3) TONS PER ACRE IF SEEDING OCCURS BETWEEN OCTOBER 31 AND MARCH
14.

SODDING-

THE SOD SHALL BE WELL-ROOTED KENTUCKY BLUEGRASS (POA PRATENSIS) OR CANADIAN
BLUEGRASS (POA COMPRESSA) CONTAINING A GROWTH OF NOT MORE THAN THIRTY (30)
PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS SUCH
AS WILD MUSTARD, THISTLES, QUACK GRASS, AND JOHNSON GRASS; AND REASONABLY
FREE FROM DANDELIONS AND CRAB GRASS.

MULCHING-

MULCH USED WITH SEEDING SHALL BE APPLIED AT THE RATES SPECIFIED ABOVE. MULCH
APPLIED WITHOUT SEEDING (SUCH AS WHEN SEASONAL CONDITIONS PROHIBIT THE
APPLICATION OF TEMPORARY OR PERMANENT SEEDING) SHALL BE APPLIED AT A RATE OF
TWO (2) TONS PER ACRE.

STRUCTURAL PRACTICES

SILT FENCING SHALL BE INSTALLED WITHIN 7 DAYS FROM THE START OF GRUBBING AND PRIOR
TO GRADING.

SILT FENCE-

SILT FENCE WILL BE CONSTRUCTED WHERE SURFACE RUNOFF DRAINS OFF-SITE TO PREVENT
THE TRANSPORTATION OF SEDIMENT. SILT FENCE WILL BE DESIGNED AND CONSTRUCTED TO
MEET THE DESIGN CAPACITY CRITERIA IN THE CGP PART III.G.2.d.iii.

INSPECTIONS/MAINTENANCE PROCEDURES

THE CONTRACTOR SHALL PROVIDE "QUALIFIED" PERSONNEL TO PERFORM INSPECTIONS OF THE
EROSION DEVICES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS
AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIODS. AN
INSPECTION REPORT WILL BE COMPLETED, SIGNED AND DATED AFTER EACH INSPECTION. A
COPY OF THE REPORT WILL BE KEPT WITH THE CONSTRUCTION SITE SUPERINTENDENT. ALL
CONTROLS WILL BE MAINTAINED AND INSPECTED AS LONG AS A PORTION OF THE SITE
REMAINS DISTURBED.

ALL TEMPORARY AND PERMANENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING
ORDER TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. IF A REPAIR IS
NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN
EROSION AND SEDIMENT CONTROLS:

- BUILT-UP SEDIMENT WILL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED
ONE-THIRD THE HEIGHT OF THE FENCE.
- THE SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE THAT THE
FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE
POSTS ARE FIRMLY IN THE GROUND.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING AND SODDING WILL BE INSPECTED
FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- DITCHES AND SWALES WILL BE INSPECTED FOR EROSION, OBSTRUCTIONS, AND HEALTHY
VEGETATION GROWTH.

ALL MATERIALS, WASTE MATERIALS, WASTE CONTROLS, AND SANITARY CONTROLS WILL BE
INSPECTED AS WELL TO ENSURE NO SPILLS, LEAKS OR DISCHARGES NEED ADDRESSED.

OTHER CONTROLS

WASTE MATERIALS
ALL WASTE GENERATED FROM THESE CONSTRUCTION ACTIVITIES WILL BE HANDLED AND
DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL
REGULATIONS.

HAZARDOUS WASTE

ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND STORED ON-SITE IN ACCORDANCE WITH
MANUFACTURER'S SPECIFICATIONS AND LOCAL, STATE AND FEDERAL REGULATIONS. ALL
INCOMPATIBLE MATERIALS WILL BE KEPT ISOLATED FROM ONE ANOTHER AND STORED IN A
SECURE, WELL VENTILATED AREA WITH SUFFICIENT CONTAINMENT WHEN NOT IN USE.

ALL HAZARDOUS WASTE GENERATED FROM THE CONSTRUCTION ACTIVITY WILL BE PROPERLY
IDENTIFIED AND PACKAGED FOR DISPOSAL IN ACCORDANCE WITH APPLICABLE EPA AND DOT
REGULATIONS. ABSOLUTELY NO HAZARDOUS MATERIALS OR WASTES WILL BE DISPOSED OF IN
THE SOLID WASTE DUMPSTERS. HAZARDOUS WASTES WILL BE PROPERLY MANIFESTED AND
DISPOSED THROUGH AN APPROVED PERMITTED WASTE HANDLING FACILITY. THE GENERAL
CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE STRICTLY
FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE
(3) TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE
SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE, FIRE HYDRANT AND SPRINKLER SYSTEM FLUSHING

- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF OILS, FUELS OF HAZARDOUS
MATERIALS HAS OCCURRED)

- UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION)

THESE NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE NEAREST STORMWATER
CATCH BASIN TO PREVENT SITE SEDIMENT RUNOFF WHENEVER POSSIBLE. DISCHARGES WITH
SEDIMENT LOADS WILL BE DISCHARGED THROUGH FILTER BAGS. ALL OTHER NON-STORMWATER
DISCHARGES WILL BE DIRECTED INTO THE SANITARY SEWER SYSTEM.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE
DURING CONSTRUCTION:

- CONCRETE - FERTILIZERS
- DETERGENTS - PETROLEUM BASED PRODUCTS
- CLEANING SOLVENTS - WOOD
- MASONRY BLOCK - TAR
- WIRE

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE
THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO
STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE
CONSTRUCTION PROJECT.

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO COMPLETE THE
TASK.

- ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR
APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL
MANUFACTURERS' LABEL.

- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE
MANUFACTURER.

- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE
CONTAINER.

- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF
MATERIALS ONSITE.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN
IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE
RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE DURING THE
CONSTRUCTION PROJECT:

PETROLEUM PRODUCTS

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE
MAINTENANCE TO REDUCE THE CHANCE OF OIL, GASOLINE OR ANTI-FREEZE LEAKAGE.
PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY
LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE
MANUFACTURER'S RECOMMENDATIONS.

VEHICLE OIL CHANGING ON-SITE WILL BE PROHIBITED UNLESS THE OIL IS CAPTURED AND
PROPERLY DISPOSED. ABSOLUTELY NO OIL, ANTI-FREEZE, FUEL OR USED FILTERS WILL BE
DISCARDED ON-SITE.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL BE PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE ON
THE SITE IN DESIGNATED AREAS ONLY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE
MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT
EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF
ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC
BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE.
EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM, BUT WILL BE
PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL
REGULATIONS.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED
IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR
SPILL PREVENTION AND CLEANUP:

- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED
AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF
THE INFORMATION AND CLEANUP SUPPLIES.

- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE
MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE
LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND,
SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE
CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL
GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL
FROM RECURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE
SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL
PREVENTION AND CLEANUP COORDINATOR.

GENERAL CONTRACTOR REQUIREMENTS

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH A CONSTRUCTION ACTIVITY THAT
DISTURBS SITE SOIL OR WHO IMPLEMENT A POLLUTANT CONTROL MEASURE IDENTIFIED IN THE STORM WATER
POLLUTION PREVENTION PLAN MUST COMPLY WITH THE FOLLOWING REQUIREMENTS OF THE NATIONAL POLLUTANT
DISCHARGE ELIMINATIONS SYSTEM (NPDES) GENERAL PERMIT ("GENERAL PERMIT") AND ANY LOCAL GOVERNING
AGENCY HAVING JURISDICTION CONCERNING EROSION AND SEDIMENTATION CONTROL:

CO-PERMITTE NOTICE OF INTENT

THE CONTRACTOR SHALL SUBMIT A COOPERATIVE NOTICE OF INTENT FOR COVERAGE UNDER OHIO EPA STORM
WATER CONSTRUCTION GENERAL PERMIT (SEE APPENDIX B FOR FORM).

OHIO ENVIRONMENTAL PROTECTION AGENCY
STORM WATER SECTION
DIVISION OF SURFACE WATER
BOB PHELPS, MANAGER
LAZARUS GOVERNMENT CENTER
P.O. BOX 1049
COLUMBUS, OHIO 43216-1049
614-644-2034

PLAN AVAILABILITY/RECORDS RETENTION

A COPY OF THE NOTICE OF INTENT (NOI) AND LETTER AUTHORIZING DISCHARGES UNDER THE GENERAL PERMIT
FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT SHALL BE POSTED AT THE SITE IN A
PROMINENT PLACE FOR PUBLIC VIEWING. A COPY OF THESE PLANS, ALONG WITH ALL RECORDS, REPORTS AND
SUPPORTING DOCUMENTATION, WILL BE KEPT ON-SITE AT ALL TIMES THROUGHOUT THE CONSTRUCTION PROJECT
AND WILL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE OWNER WILL MAINTAIN
THE RECORDS FOR AT LEAST THREE YEARS AFTER THE CONSTRUCTION PROJECT HAS BEEN COMPLETED.

THESE PLANS, RECORDS, REPORTS, AND SUPPORTING DOCUMENTATION WILL BE AVAILABLE UPON REQUEST TO
THE DIRECTOR OF THE OHIO EPA, OR ANY AUTHORIZED REPRESENTATIVE, AND PORTIONS NOT CLASSIFIED AS
CONFIDENTIAL TO ANY OTHER INTERESTED PARTY AS REQUIRED UNDER SECTION 308 (B) OF THE FEDERAL
WATER POLLUTION CONTROL ACT.

RECORDS WILL INCLUDE:

- THE DATES WHEN SUBSTANTIAL GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA;
- THE DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA, TEMPORARILY OR PERMANENTLY;
- THE DATES WHEN AN AREA IS STABILIZED

PLAN CHANGES

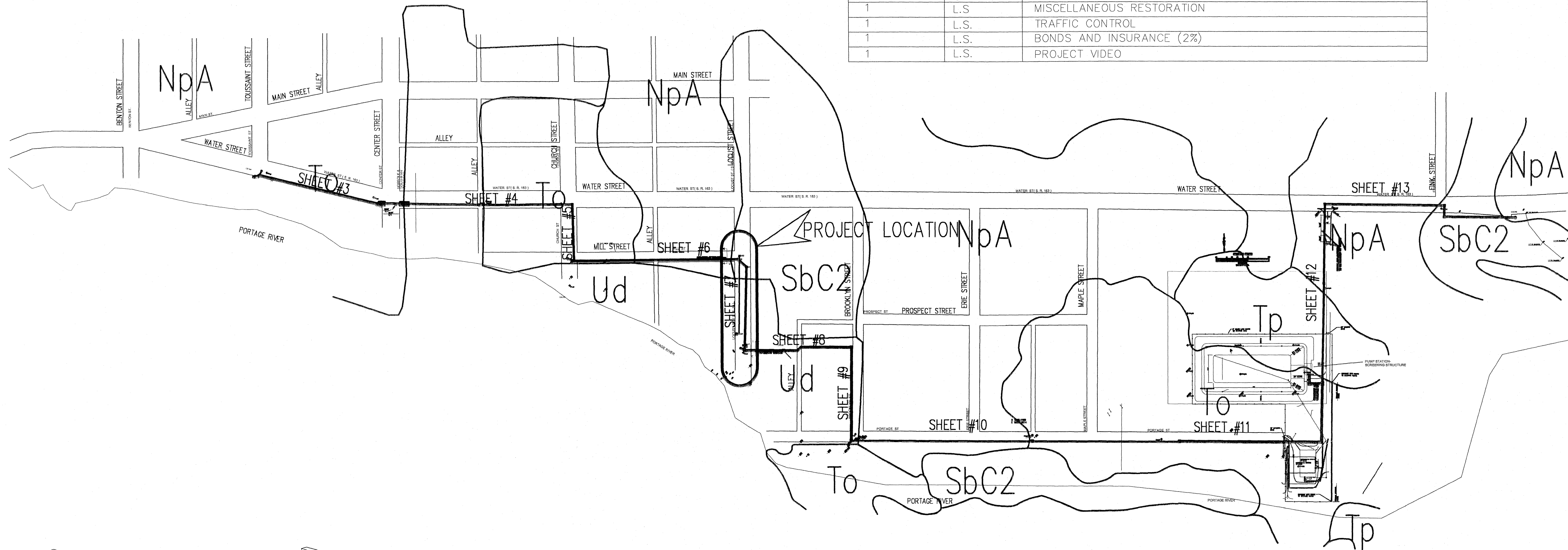
THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER OF CHANGES IN DESIGN, CONSTRUCTION, OPERATION,
MAINTENANCE OR ANY DEFICIENCIES DETECTED IN THE PLAN THAT WILL HAVE A SIGNIFICANT EFFECT ON THE
POTENTIAL FOR DISCHARGING POLLUTANTS IN STORM WATER AT THE SITE. THE OWNER SHALL MODIFY THIS
STORM WATER POLLUTION PREVENTION PLAN TO CORRECT THE DEFICIENCIES OR REFLECT THE CHANGES AND
NEW CONDITIONS.

THE OWNER SHALL ALSO MODIFY THE PLAN WITHIN SEVEN (7) DAYS AFTER A RELEASE OF A REPORTABLE
QUANTITY OF A HAZARDOUS SUBSTANCE OR OIL.

THE OWNER SHALL ALSO MODIFY THE PLANS AS REQUIRED BY THE OHIO EPA STORM WATER DIVISION
IMMEDIATELY AFTER NOTIFICATION OF THE REQUIRED CHANGES. THE OWNER SHALL CERTIFY TO THE DIRECTOR
OF THE OHIO EPA THAT THE REQUIRED CHANGES HAVE BEEN MADE.

ANY INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSIONS OF THIS PROJECT OR FOR ANY USE ON ANY OTHER PROJECT WITHOUT WRITTEN VERIFICATION FROM THE ENGINEER, ARCHITECT OR SURVEYOR. FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE ENGINEER, ARCHITECT OR SURVEYOR.

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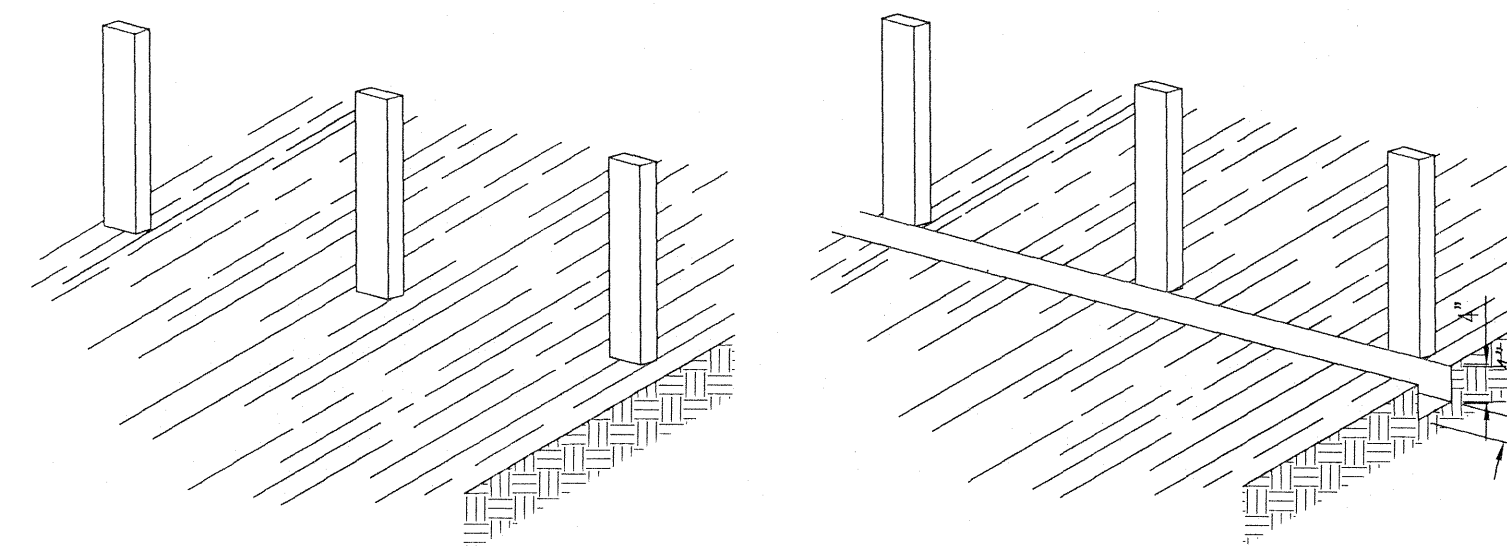


QTY.	UNIT	DESCRIPTION
17	L.F.	18" SANITARY SEWER
351	L.F.	42" SANITARY SEWER
40	L.F.	54" SANITARY SEWER
66	V.F.	OVERFLOW INTECEPTOR STRUCTURE
11	V.F.	SANITARY MANHOLE
4	EACH	SANITARY MANHOLE FRAME AND COVER
1	EACH	PLUG OVERFLOW STRUCTURE
300	L.F.	6" WATERLINE
1	EACH	6"x8" TAPPING SLEEVE AND VALVE
4	EACH	RECONNECT EXISTING WATER SERVICE
1	EACH	CURB INLET REPLACEMENT
2	EACH	CATCH BASIN REPLACEMENT
380	L.F.	12" AND UNDER STORM SEWER REPLACEMENT
60	L.F.	OVER 12" STORM SEWER REPLACEMENT
1	L.S.	MISCELLANEOUS RESTORATION
1	L.S.	TRAFFIC CONTROL
1	L.S.	BONDS AND INSURANCE (2%)
1	L.S.	PROJECT VIDEO

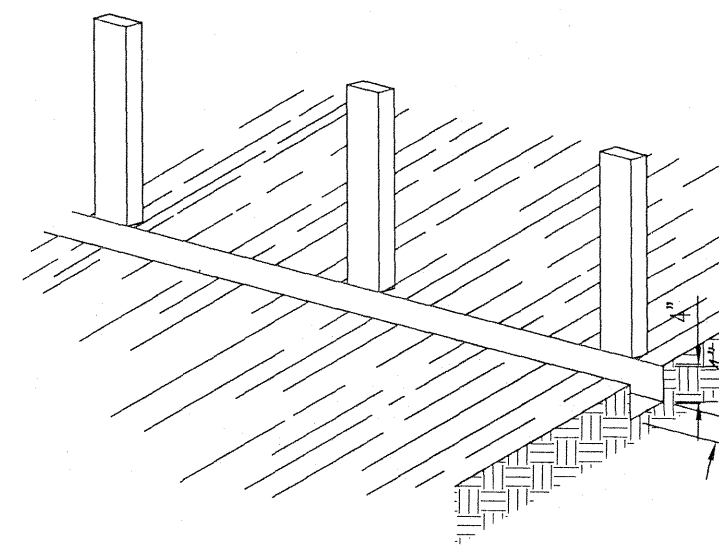
NOTE:
INSTALL INLET PROTECTION AT ALL CATCH BASINS WHICH MAY COLLECT STORM WATER RUNOFF FROM CONSTRUCTION AREA.
INSTALL SILT FENCE AS NECESSARY ALONG STORM SEWER ROUTE TO PREVENT OFFSITE FLOW OF SILTATION FROM CONSTRUCTION PROCESSES.
DEWATER TRENCHES AS NECESSARY USING A PUMP WITH A FILTER BAG ATTACHMENT. THE FILTER BAGS MUST BE SIZED TO HANDLE THE DISCHARGE FROM THE PUMP. THE INTAKE FOR PUMPING OPERATIONS SHALL BE PLACED SO AS TO DRAW WATER FROM THE TOP OF THE WATER SURFACE UTILIZING A FLOAT OR OTHER ACCEPTABLE METHOD.

Legend:
NpA = Nonpore silty clay loam
SbC2 = Silty clay loam
To = Toledo silty clay
Tp = Toledo silty clay, ponded
Ud = Unorthodox

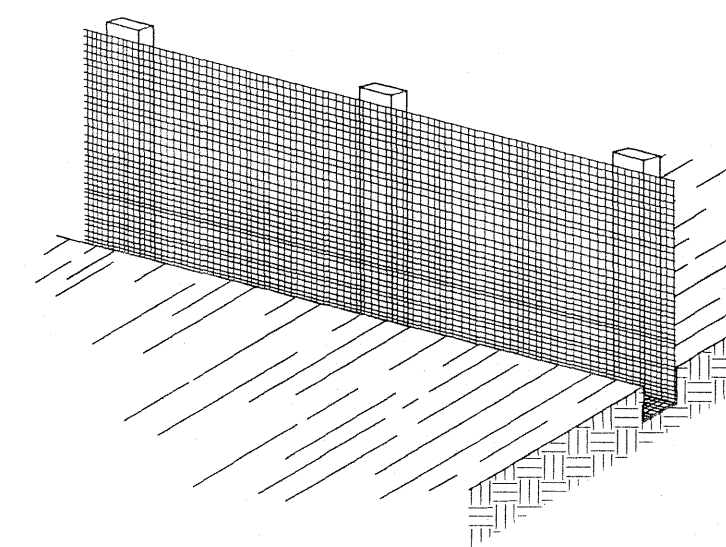
Per USDA SCS Soil Survey of Sandusky County



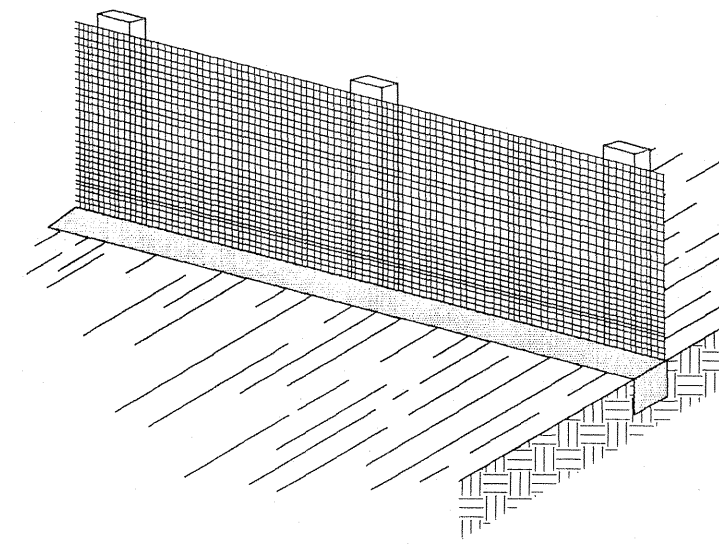
1) SET THE STAKES



2) EXCAVATE A 4' x 4' TRENCH UPSLOPE ALONG THE LINE OF STAKES.



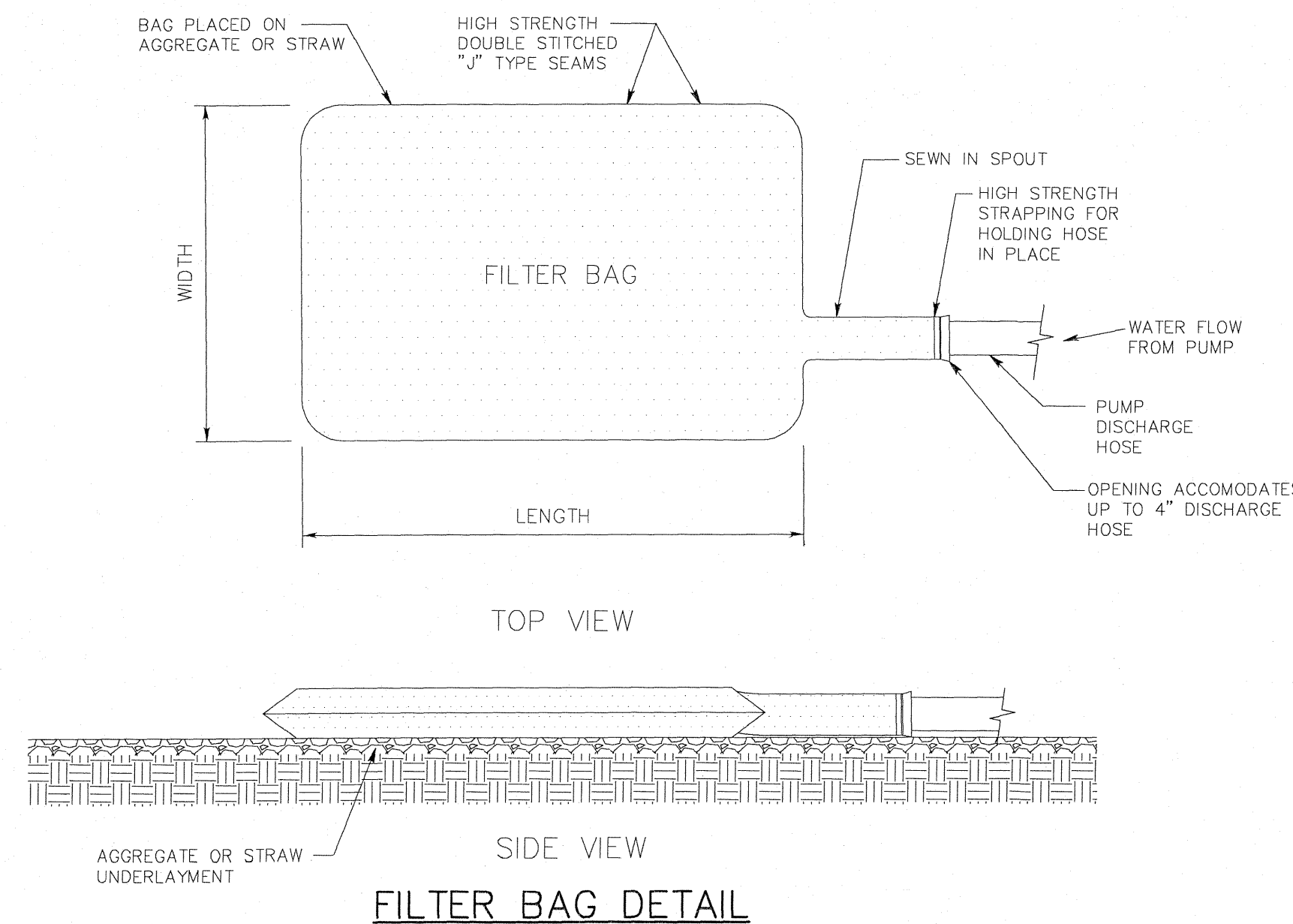
3) STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH



4) BACKFILL AND COMPACT THE EXCAVATED SOIL

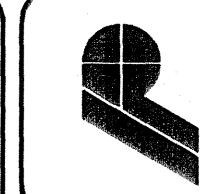
CONSTRUCTION OF A FILTER BARRIER

SCALE: NONE



VILLAGE OF OAK HARBOR
OTTAWA COUNTY , OHIO

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Call 1-800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-EMERGENCY
MUST BE CALLED DIRECTLY



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1188 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

**SANITARY SEWER IMPROVEMENTS
VILLAGE OF OAK HARBOR
OTTAWA COUNTY , OHIO**

**SWPPP PLAN
FOR INTERCEPTOR
SEWER**

DRAWN BY: JMF
CHECKED BY: JMF
REVISION:

SWP3-1A
OF
2
JOB NUMBER
1590-120

CONTRACT "B"