

1066

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GENERAL NOTES

Although specific provisions required of the Contractor are outlined herein, it shall be the Contractor's responsibility to provide all construction and testing services as necessary for the completion, and acceptance, of the items of work shown on these plans.

SANITARY SEWERS

Wye tees will be the only acceptable connection for a new main installation. The wye branch shall be installed so as not to be more than 45' above the horizontal.

All sanitary sewer laterals shall not exceed a depth of 12 feet below the finished grade of the building lot or 4 feet below the proposed floor elevation, which ever is less, at the end of the lateral.

Deflection Test - (Plastic sewer pipe, ABS or PVC, including "Truss Pipe"), a deflection test must be performed under the supervision of the design engineer in the presence of the Butler County inspector. This test must be performed not sooner than sixty (60) days after acceptance of the sewers using a nine (9) point or greater mandrel, set at ninety-five percent (95%) of the specified pipe diameter. Any pipe found to have exceeded the allowable five percent (5%) deflection will have to be removed and replaced.

All sanitary sewer manholes shall be precast concrete (ASTM C-478) with rubber gasket joints (ASTM C-443). Sanitary sewers shall be PVC plastic sewer pipe ASTM D-3034, joints ASTM D-2855.

1-16 feet deep - SDR 35
16-25 feet deep - SDR 26

The bedding material for all sanitary sewer pipe shall be placed in the trench bottom and smoothed to a flat uniform bed of approximately 6" depth. After the pipe has been set in place, it will be carefully backfilled with the same bedding material to at least the spring line of the pipe. Above the spring line of the pipe to a depth of 8" to 12", the backfill material for pipe protection can be any processed granular material except bankrun material containing larger than three inch rock.

SPECIFICATIONS

All material and work provided for the construction, and testing, of the provisions of these plans shall meet the requirements of the BUTLER COUNTY WATER AND SEWER DEPARTMENT.

MISCELLANEOUS

All trenches under or within 5' of pavement shall be backfilled with approved granular material in accordance with ODOT Spec. 603.

Provide a minimum clear separation between all public water mains or sanitary sewer lines and other conduits or utilities, of 10 feet, as measured horizontally, except where such conduits or utilities cross over or under a public water or sewer main, where a minimum vertical separation of 18 inches shall be provided, unless otherwise shown on the plans.

Roof drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited.

All work shall be done under the supervision of the Butler County authority having responsibility for utilities in the area.

See Specifications for other information concerning materials and installation.

Surface course (item 404) and tack coat (item 407) is to be applied nine (9) months after the leveling course.

All catch basins and manholes with a depth greater than 4' shall be provided with steps. Steps shall meet the requirements of ODOT STD 604 and shall conform to the details as shown on Butler County Standard Drawing MH-1A.

All disturbed areas created during construction are to be seeded as soon as possible to limit the erosion and stabilize soil.

Butler County will not be responsible for any pavement or storm sewer repairs resulting from water main and sanitary sewer repairs. Butler County also will not be responsible for adjusting manhole, valves, fire hydrants, meter pits, etc. as a result of grade changes. The grantor shall be responsible for the proper adjustment of manholes, valves, fire hydrants, meter pits, etc., to the satisfaction of Butler County, due to grade changes, paving, repairing, etc., initiated by the grantor.

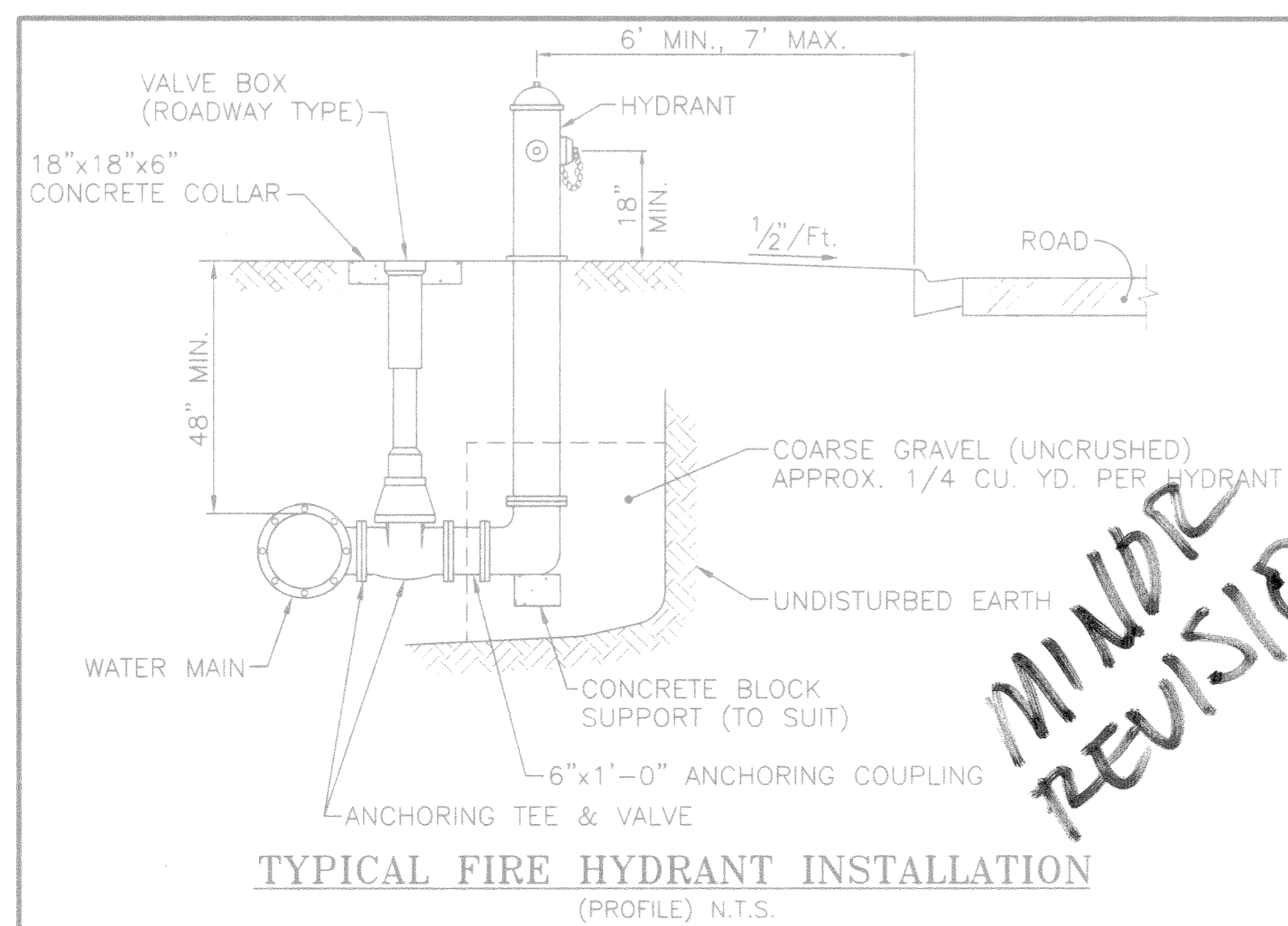
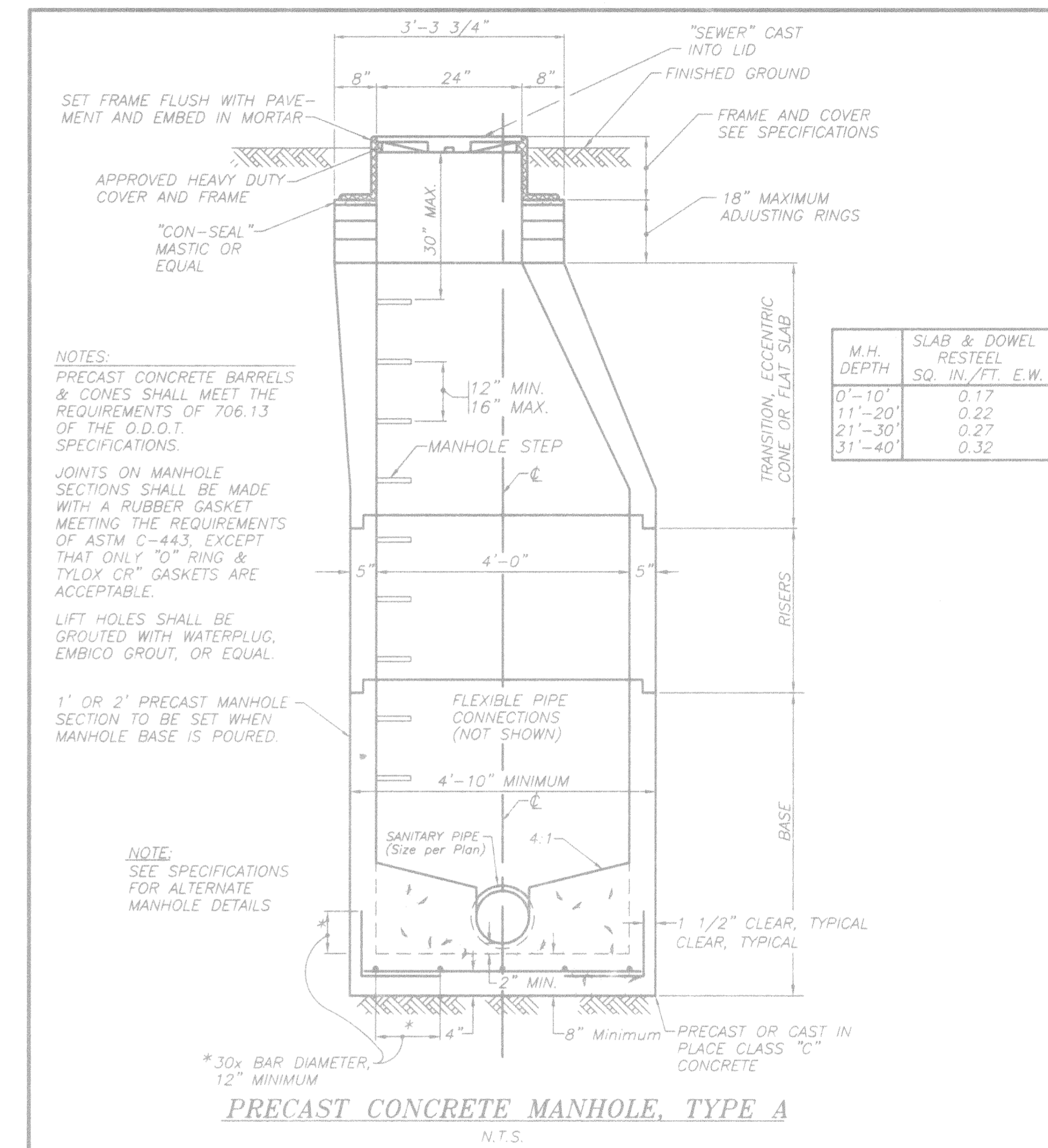
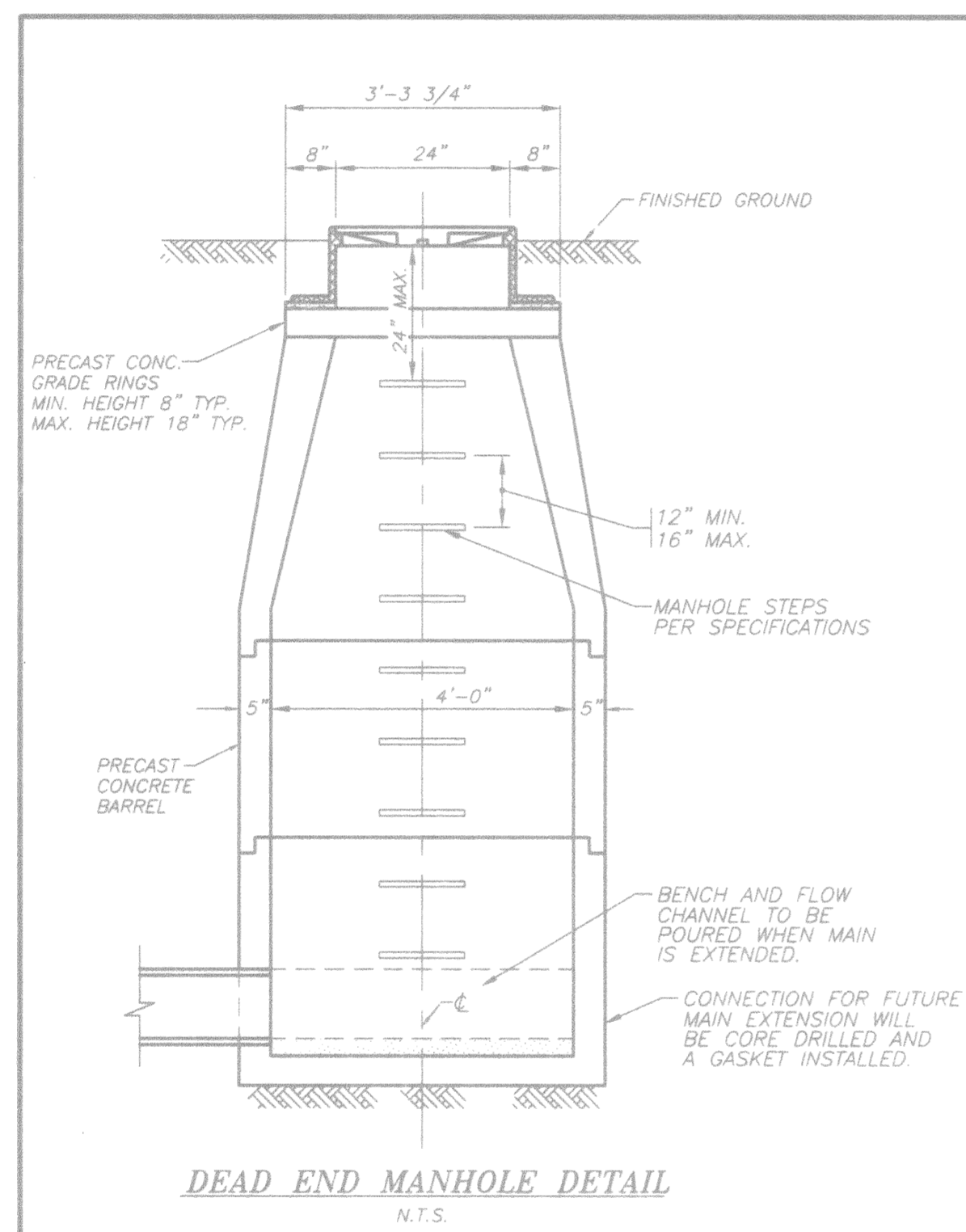
Detention basin to be the first item constructed on site: No other clearing or grading permitted until basin is completed.

UNION CENTRE PARK PHASE 1 CONSTRUCTION PLANS

UNION TOWNSHIP, SECTION 33 BUTLER COUNTY, OHIO

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

Note: Where shown on these Plans.
Street "A" is "SCHULZE DRIVE"



WATER WORK

Fire hydrant manufacturer, size and shape of operating nuts and threads on hose and pumper connections shall meet the requirements of the local authorities having jurisdiction. Contractor shall verify these requirements.

Although specific provisions required of the Contractor are outlined herein, it shall be the Contractor's responsibility to provide all construction and testing services as necessary for the completion, and acceptance, of the items of work shown on these plans.

MISCELLANEOUS

All trenches under or within 5' of pavement shall be backfilled with approved granular material in accordance with ODOT Spec. 603.

Provide a minimum clear separation between all public water mains or sanitary sewer lines and other conduits or utilities, of 10 feet, as measured horizontally, except where such conduits or utilities cross over or under a public water or sewer main, where a minimum vertical separation of 18 inches shall be provided, unless otherwise shown on the plans.

All work shall be done under the supervision of the Butler County authority having responsibility for utilities in the area.

SPECIFICATIONS

All material and work provided for the construction, and testing, of the provisions of these plans shall meet the requirements of the BUTLER COUNTY WATER AND SEWER DEPARTMENT.

WATER MAIN MATERIALS

Pipe and Fittings Class 53 D.I. AWWA C151/A21.51
Installation and Tested by AWWA C600.
Disinfection/Test Per AWWA C601.

INDEX OF SHEETS

Table with 2 columns: Sheet Title and Sheet Number. Includes entries for Title Sheet, Typical Section & Property Map, Street 'A' Plan, Street 'A' Profile & Storm Details, Intersection & Cul-de-sac Details, and Grading Plan.

Professional Engineer seal for M. David Damron, DSD CONSULTANTS, INC., and project title: UNION CENTRE PARK PHASE 1 CONSTRUCTION PLANS.

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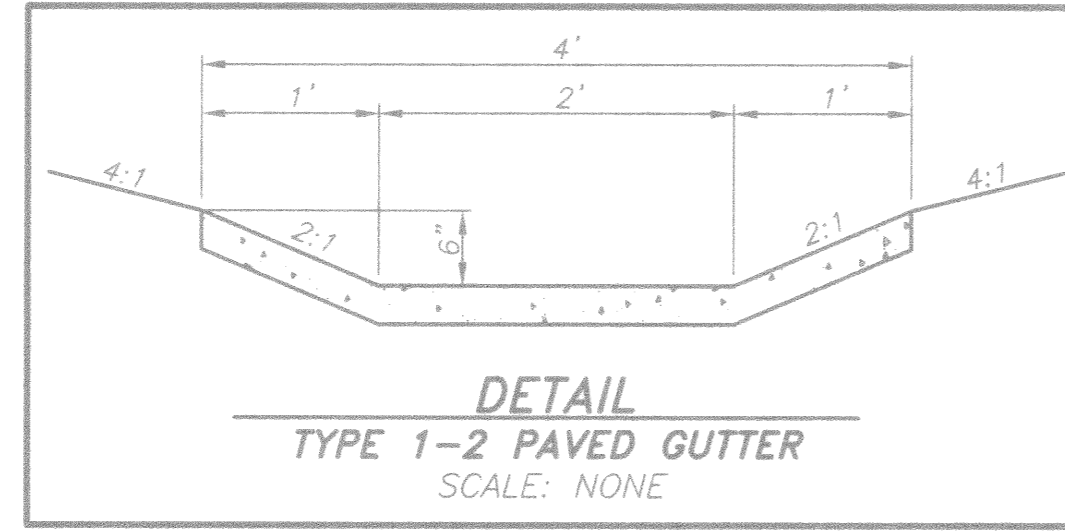
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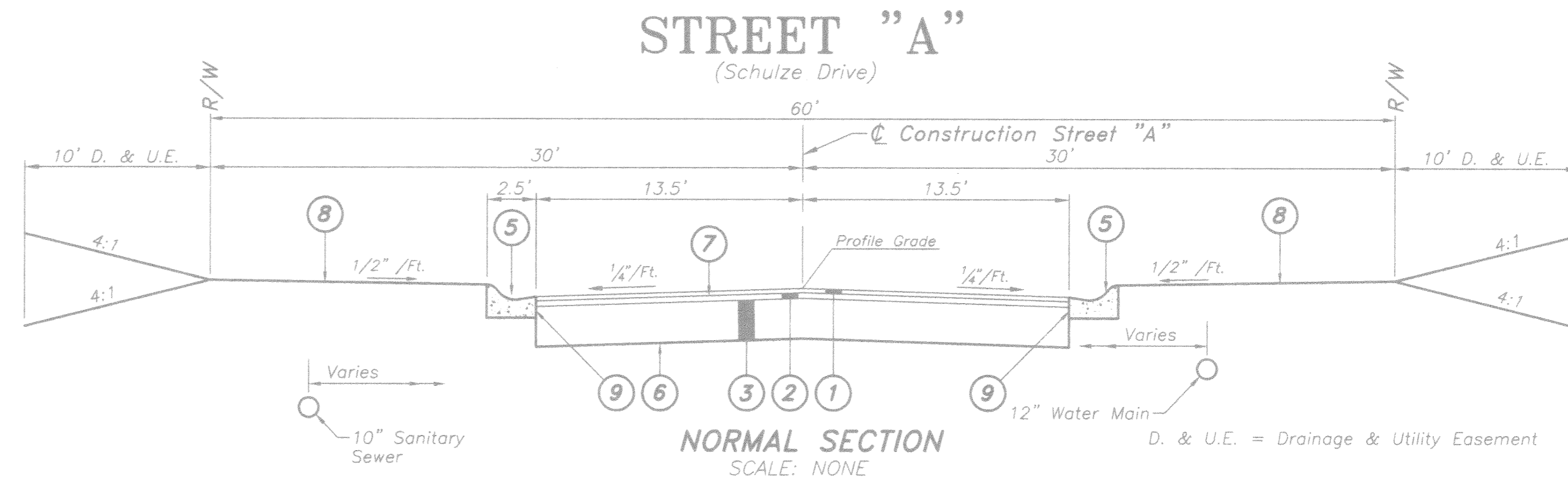
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PAVEMENT LEGEND

REF. ITEM	DESCRIPTION
①	404 1" Asphalt Concrete, AC-20
②	403 2 1/2" Asphalt Concrete, AC-20
③	301 8" Bituminous Aggregate Base
④	Not Used
⑤	609 Roll Type Curb and Gutter (Butler County Std. C-1)
⑥	203 Subgrade Compaction
⑦	407 Tack Coat, applied at the rate of 0.05 gal. per Sq. Yd.
⑧	659 Seeding and Mulching
⑨	407 Tack coat shall be applied to front face of curb prior to the installation of 301 bituminous aggregate base. Also to be applied to curb joint after the installation of 403 leveling course.



TYPICAL SECTION



GENERAL PLAN

SECTION 33, TOWN 3, RANGE 2
UNION TOWNSHIP, BUTLER COUNTY, OHIO



- LEGEND**
- I.P. (Set)
 - Iron Spike (I.S.), Iron Rebar, or P.K. Nail (found)
 - Monument (Set)
 - 6 Lot Number
 - Tie Line
 - U. & D.E. = Existing Utility & Private Drainage Easement
 - L/A = Limited Access
 - A.P.# = Auditor's Parcel Number
 - ④-WL Parcel Numbers per Survey Vol. 32, Pg. 133 A-Z

CURVE	RADIUS	LENGTH	BEARING	CHORD
A	30'	47.12'	S12°16'33"E	42.43'
B	36'	56.55'	S77°43'27"W	50.91'
C	36'	26.91'	N11°18'27"E	26.29'
D	54'	31.68'	N06°41'45"E	31.22'
E	54'	93.52'	N73°06'45"E	82.26'
F	54'	93.52'	S07°39'51"E	82.26'
G	54'	31.68'	S58°45'09"W	31.22'
H	36'	26.91'	S54°08'27"W	26.29'
I	36'	26.91'	S11°18'27"W	26.29'
J	54'	40.37'	S11°18'27"W	39.44'
K	54'	125.19'	N80°51'33"W	98.98'
L	36'	26.91'	N35°51'33"W	26.29'
M	30'	47.12'	S77°43'27"W	42.43'



PLANS PREPARED BY:
DSD CONSULTANTS, INC.
Civil Engineering
4819 Chester, West Chester, Ohio 93949
Phone 513-777-9111

SCHUMACHER DUGAN CONSTRUCTION, INC.
6355 CENTRE PARK DRIVE,
WEST CHESTER, OHIO 45069,
513-777-9800



TYPICAL SECTION & PROPERTY MAP UNION CENTRE PARK PHASE 1

DESIGNED M.D.D.
DRAWN C.F.G.
CHECKED M.D.D.
DATE APRIL 1998

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S77°44'08"E, 64.04'

SCHUMACHER DUGAN
CONSTRUCTION, INC.
D.B. 1805, Pg. 709
65.00 Ac. Deed
AP# 032-000-031

WEST CHESTER 75, INC.
D.B. 1617, Pg. 586
(AP# M5610-032-000-026)

WEST CHESTER 75, INC.
D.B. 1743, Pg. 604
40.45± Ac. Deed
(AP# M5610-032-000-030)



HERBERT BAUMANN (1/2)
D.B. 503, Pg. 359
DORIS BAUMANN (1/2)
D.B. 1744, Pg. 706
23,554 Ac. Deed

LEGEND
D. & U.E. = Drainage & Utility Easement
L/A = Limited Access
W.S. = Water Service
S.S. = 6" Sanitary Service
4X-2 = Parcel Numbers per Survey
Vol. 32, Pg. 133 A-Z

NOTES
• For Storm Sewer & C.B. data
See Profiles Sheet 4 & 5.
• For Street elevations & Geometrics
See Sheet 6.

0 50 100
SCALE IN FEET



PLANS PREPARED BY:
DSD CONSULTANTS, INC.
Civil Engineering
9319 Cincinnati-Columbus Road, Suite 22
Cincinnati, Ohio 45240
Phone: 513-777-9111

SCHUMACHER DUGAN
CONSTRUCTION, INC.
6355 CENTRE PARK DRIVE
WEST CHESTER, OHIO 45069
513-777-9800

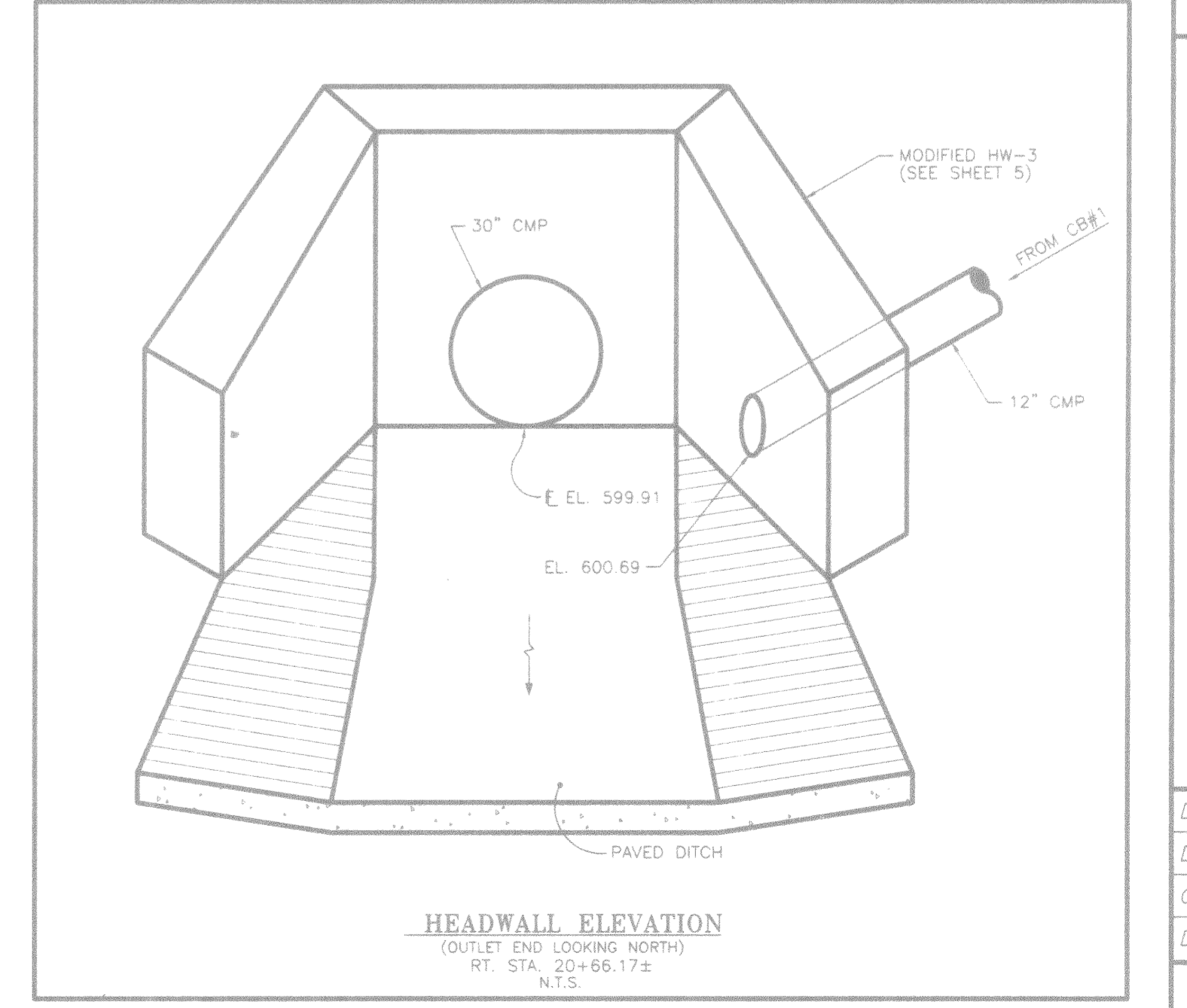
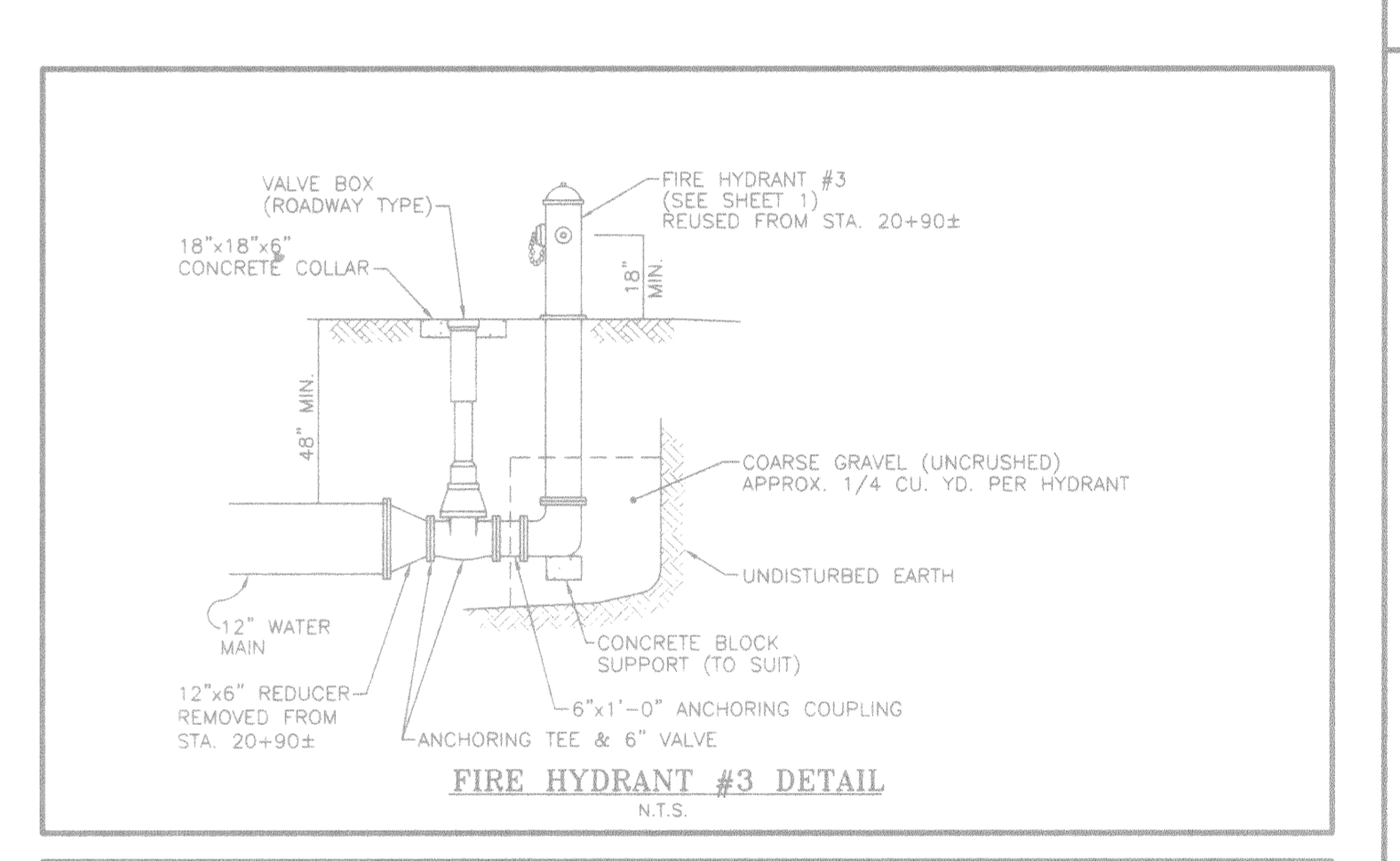
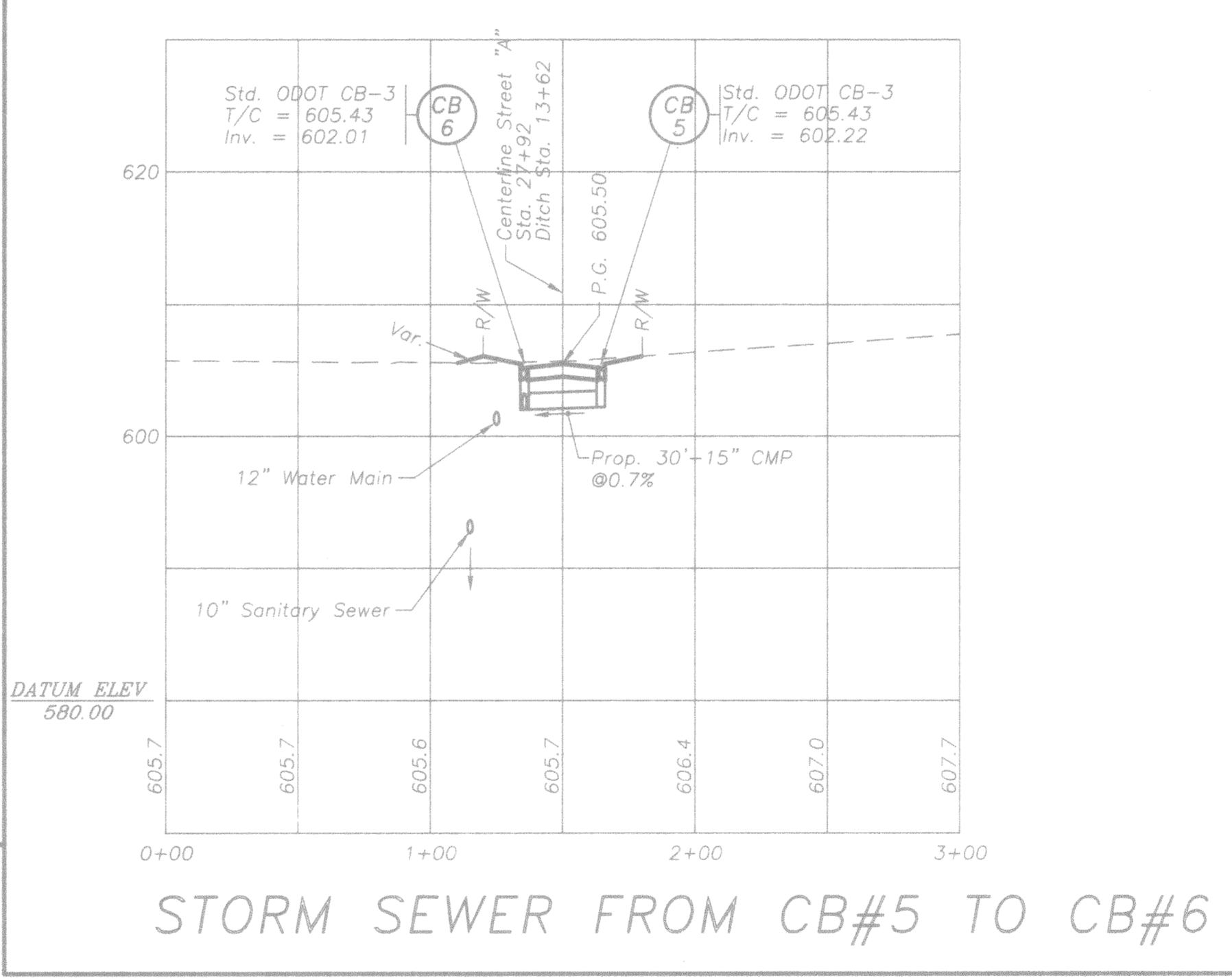
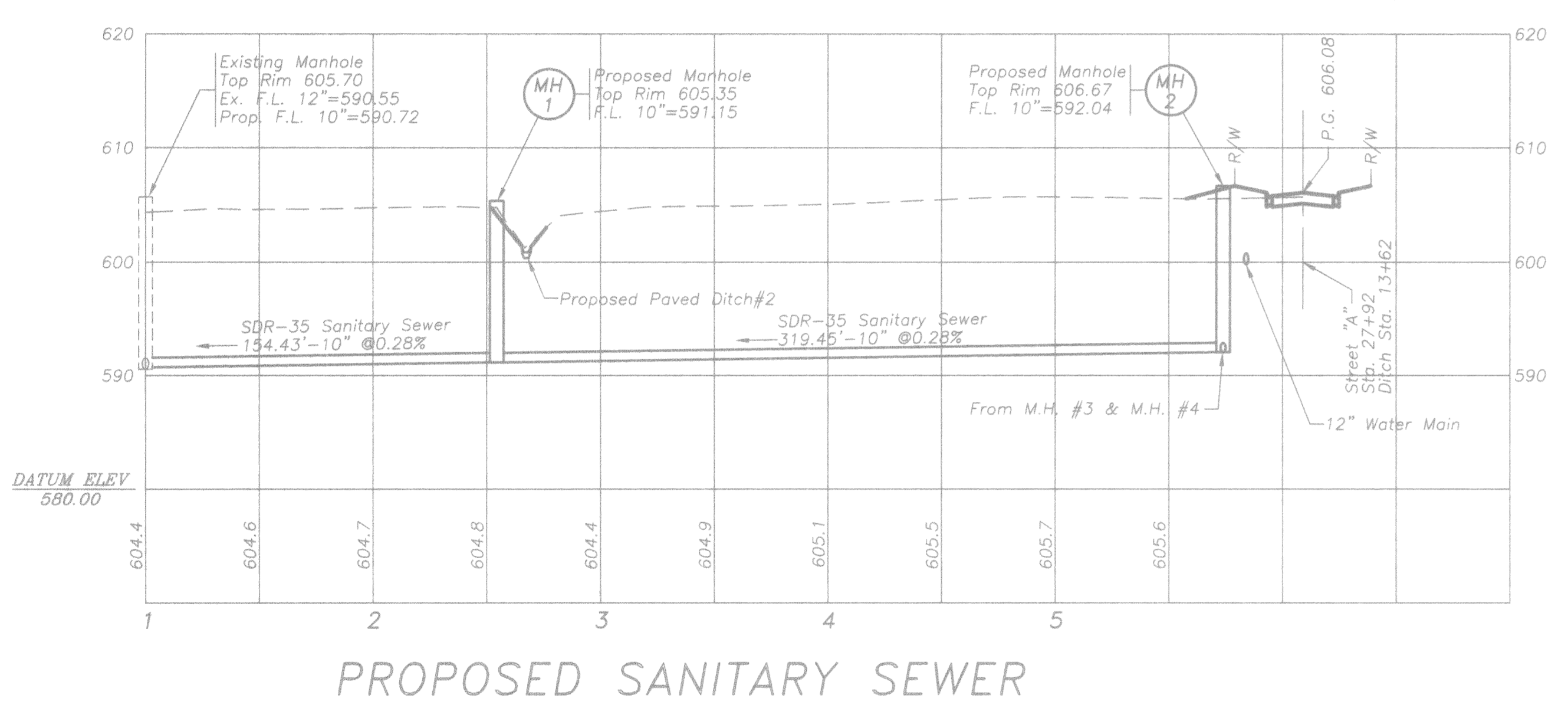
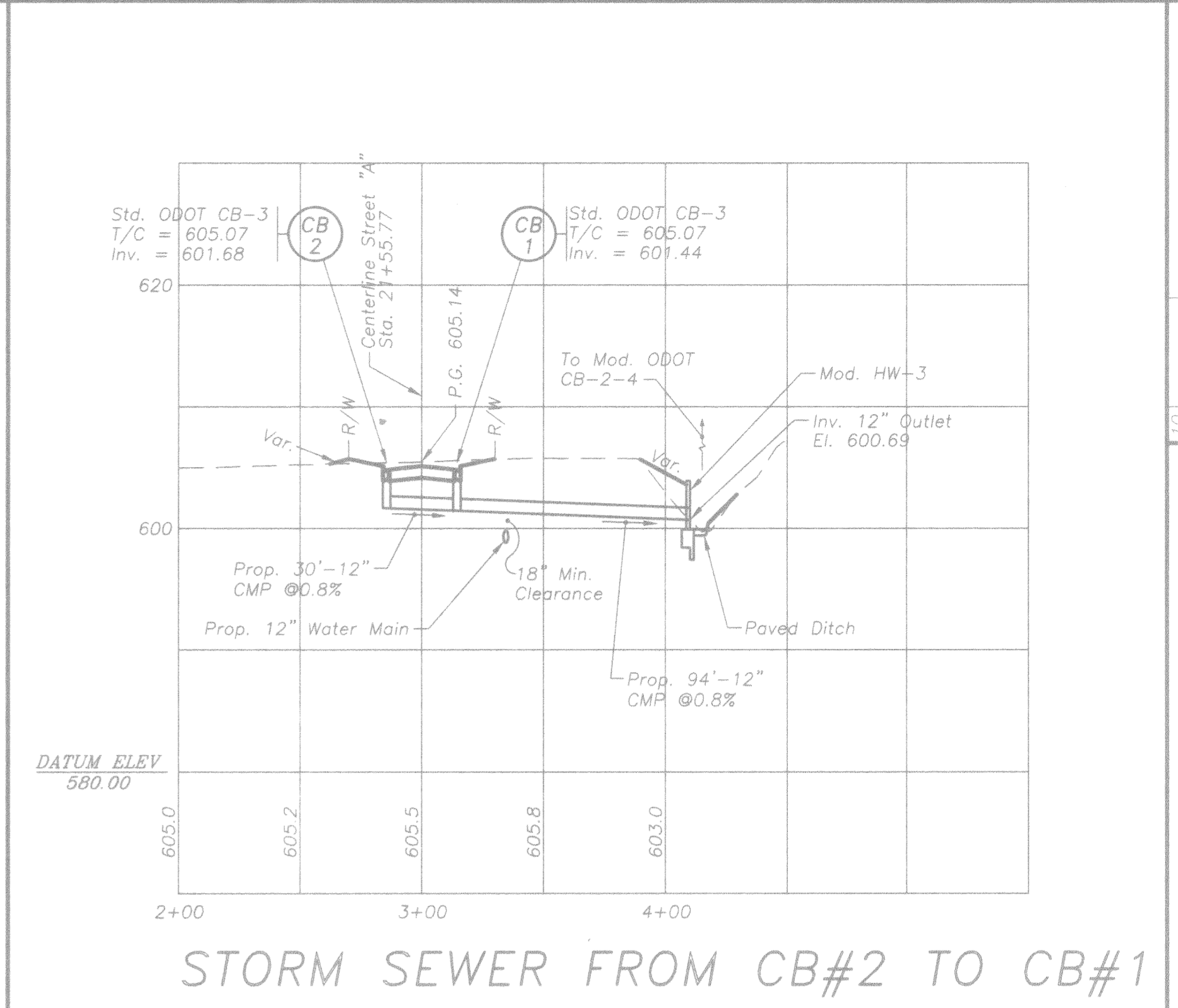


**PLAN "STREET A"
UNION CENTRE PARK
PHASE 1**

DESIGNED M.D.D.
DRAWN C.F.G.
CHECKED M.D.D.
DATE APRIL 1998

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DATE: _____

STATE OF OHIO
 M. DAVID DAMRON
 34927
 PROFESSIONAL ENGINEER

PLANS PREPARED BY:
DSD CONSULTANTS, INC.
 Civil Engineering
 9319 Lorain Road, Columbus, Ohio 43059
 Phone 513-777-9111

SCHUMACHER DUGAN CONSTRUCTION, INC.
 6355 CENTRE PARK DRIVE,
 WEST CHESTER, OHIO 45069,
 513-777-9800

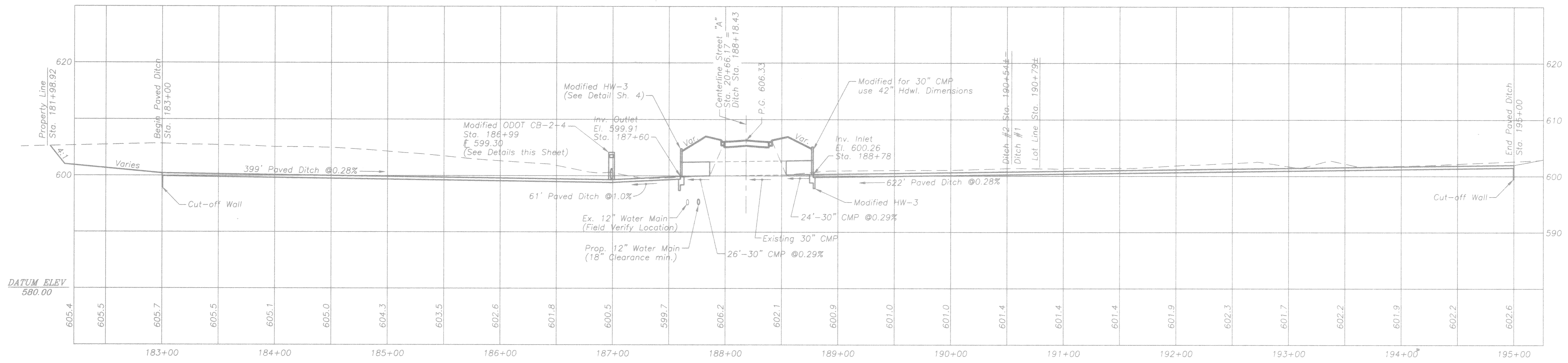
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PROFILES UNION CENTRE PARK PHASE 1

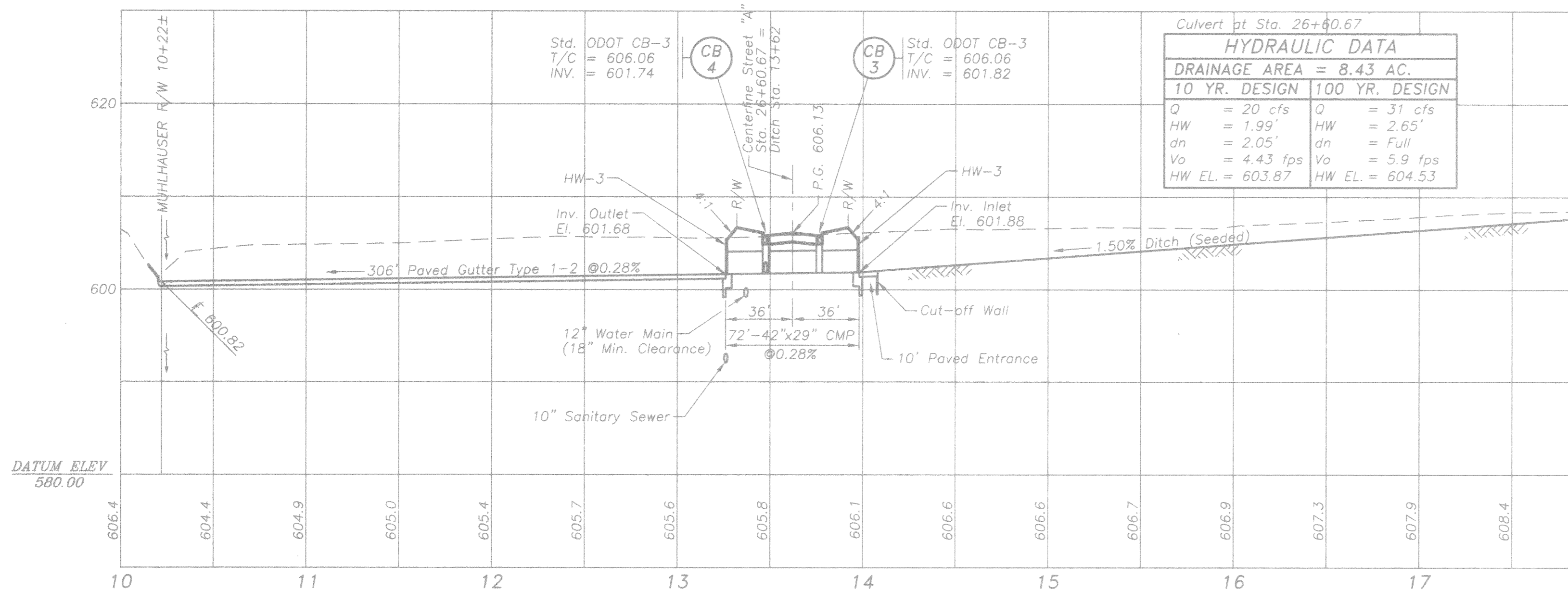
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 DRAWN C.F.G.
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 DATE APRIL 1998

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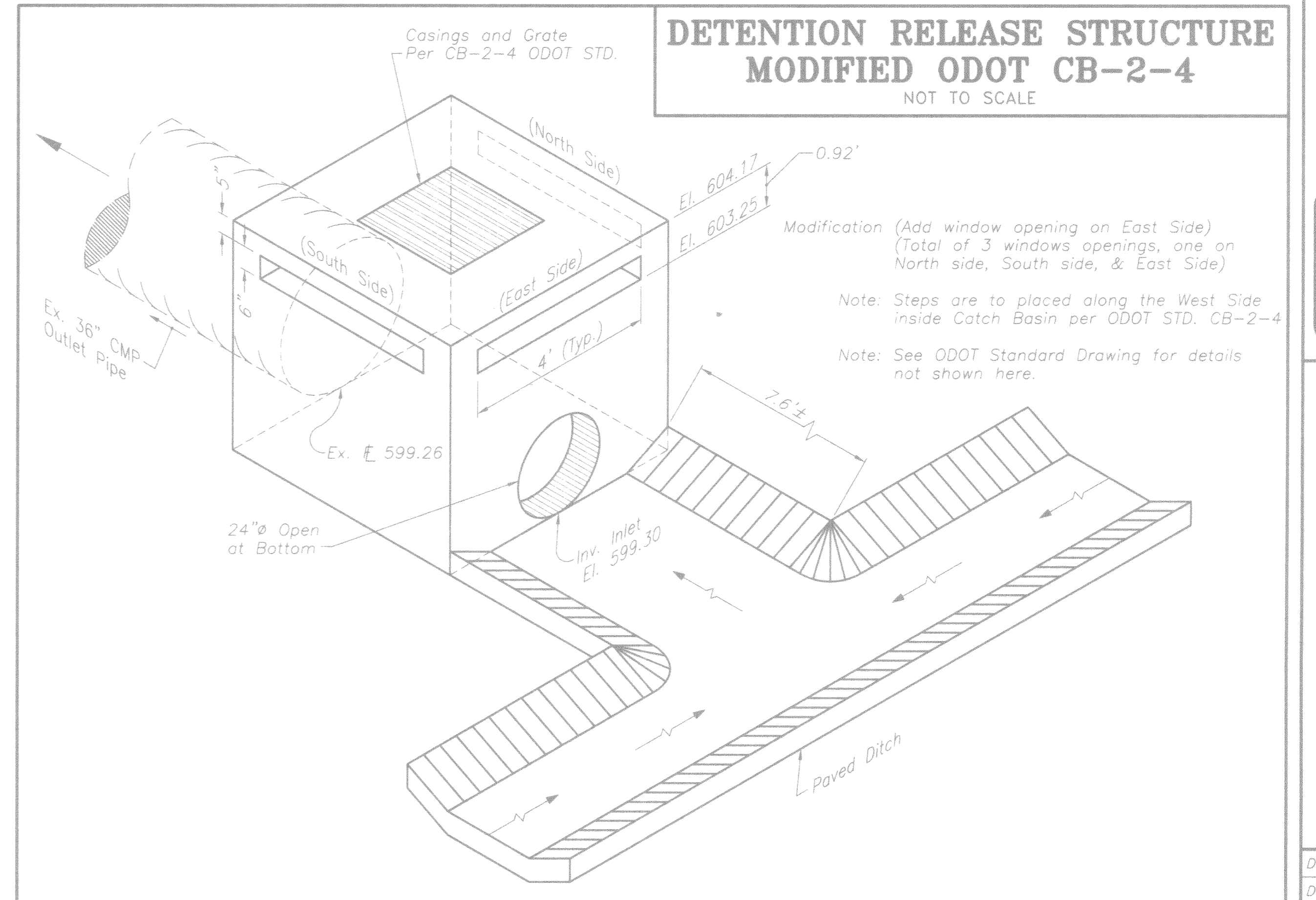
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PROPOSED DITCH #2 (ALONG MUHLHAUSER ROAD) & CULVERT DETAIL



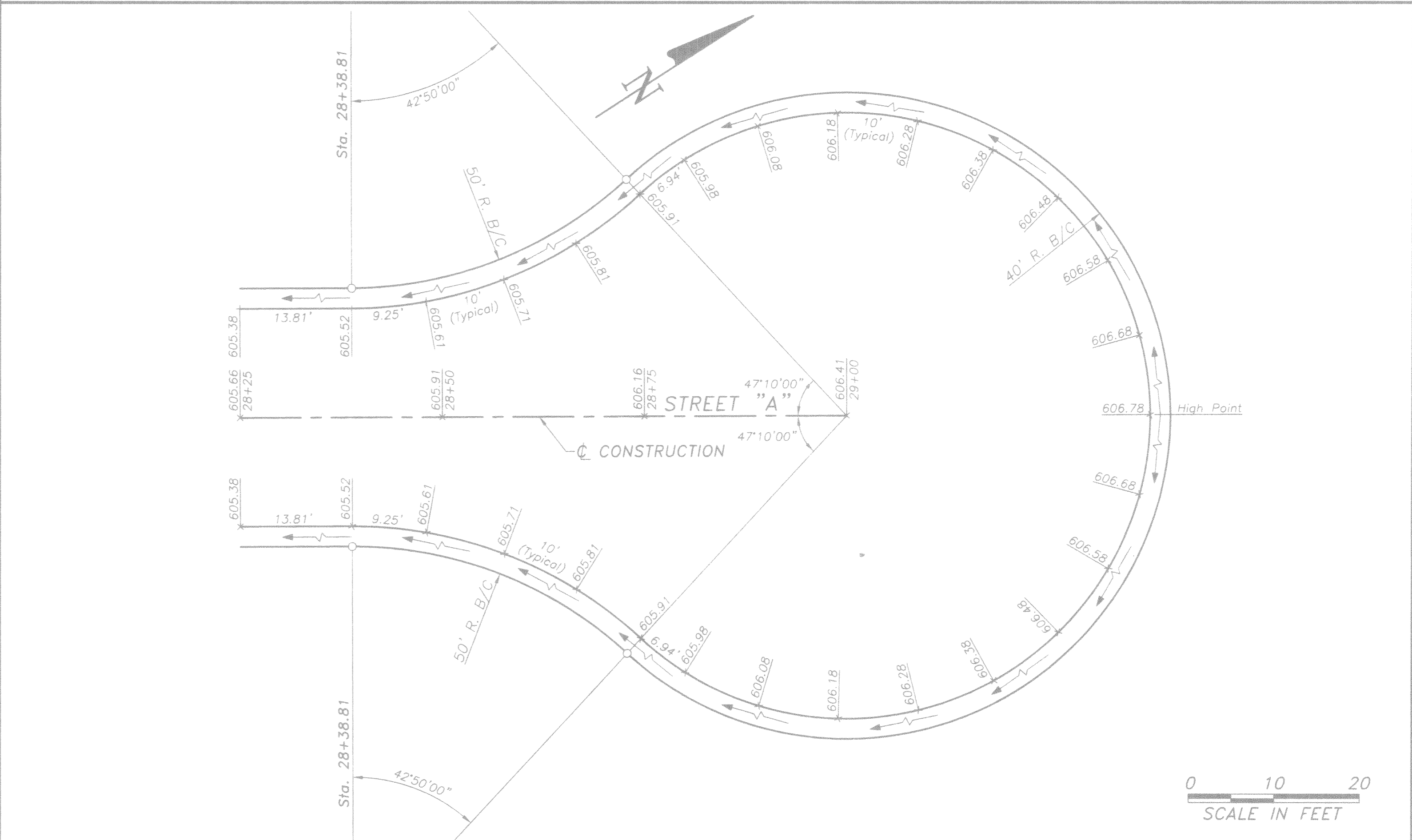
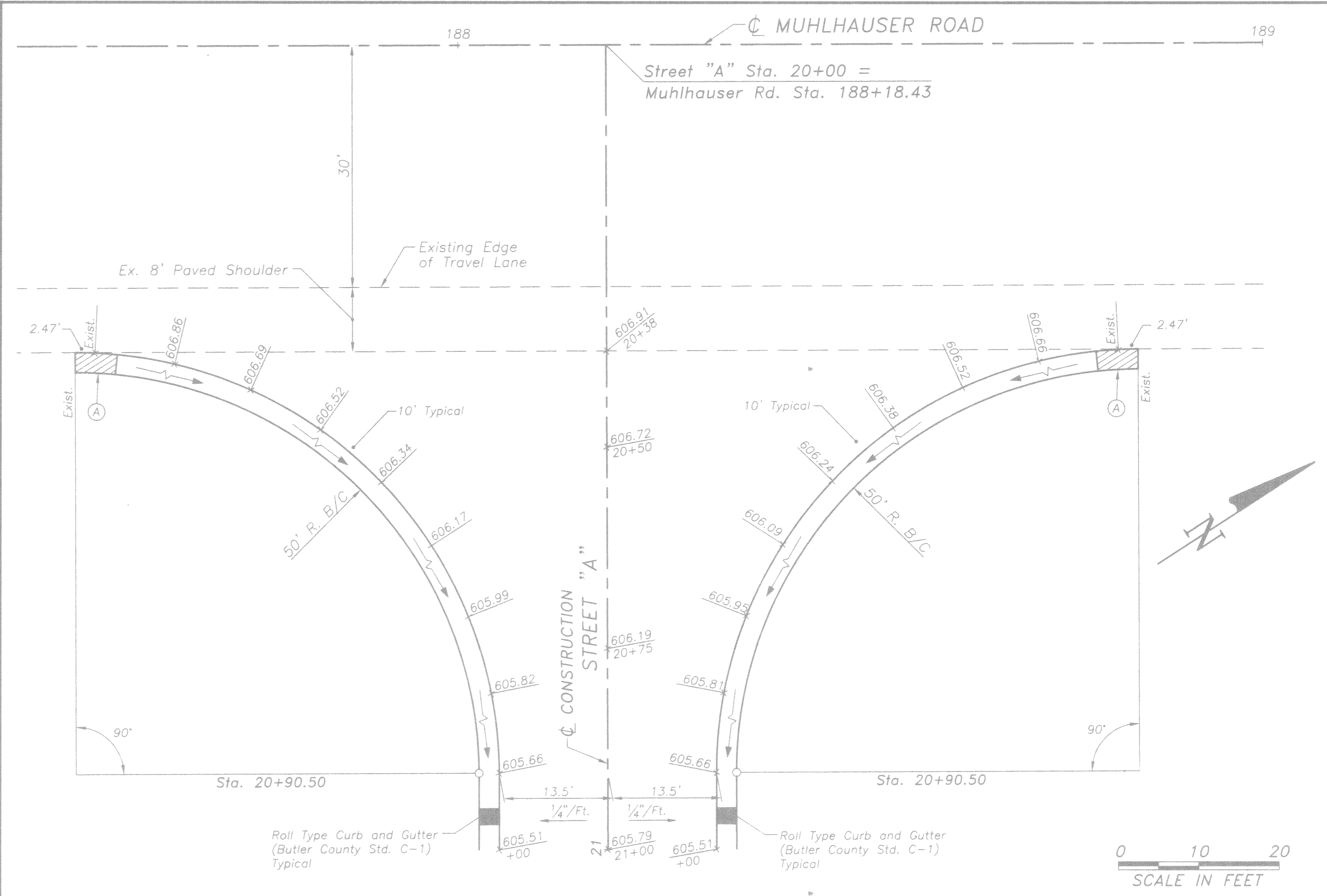
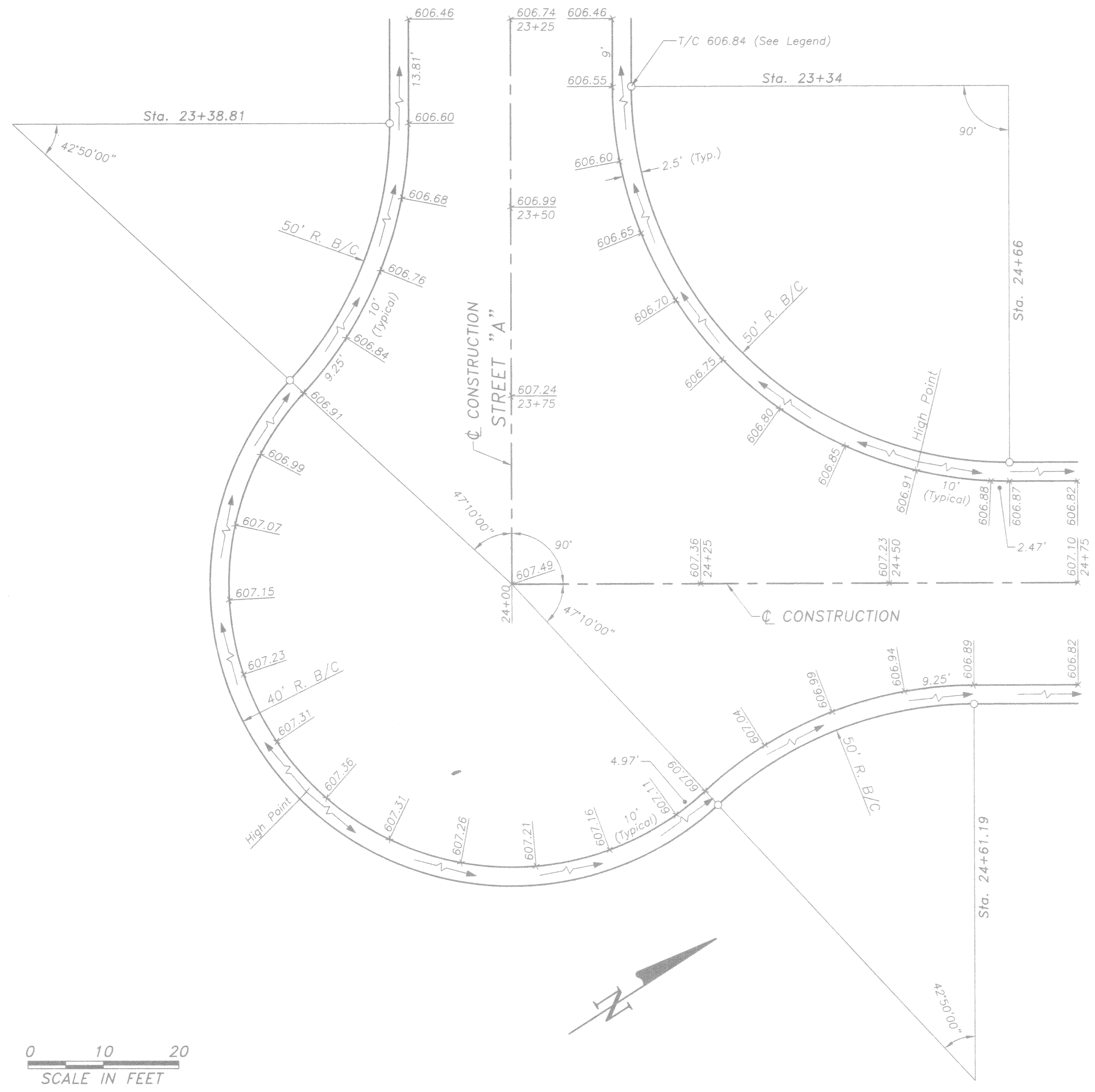
PROPOSED DITCH #1 (BETWEEN LOTS 1 & 2, 5 & 6) & CULVERT DETAIL



DATE	
REVISION	
PLANS PREPARED BY: DSD CONSULTANTS, INC. Civil Engineering 3319 Wickliffe-Columbus Road, Suite 22 West Chester, Ohio 45589 Phone 513-777-9111	
PROFILES UNION CENTRE PARK PHASE 1	
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DRAWN	C.F.G.
CHECKED	M.D.D.
DATE	APRIL 1998

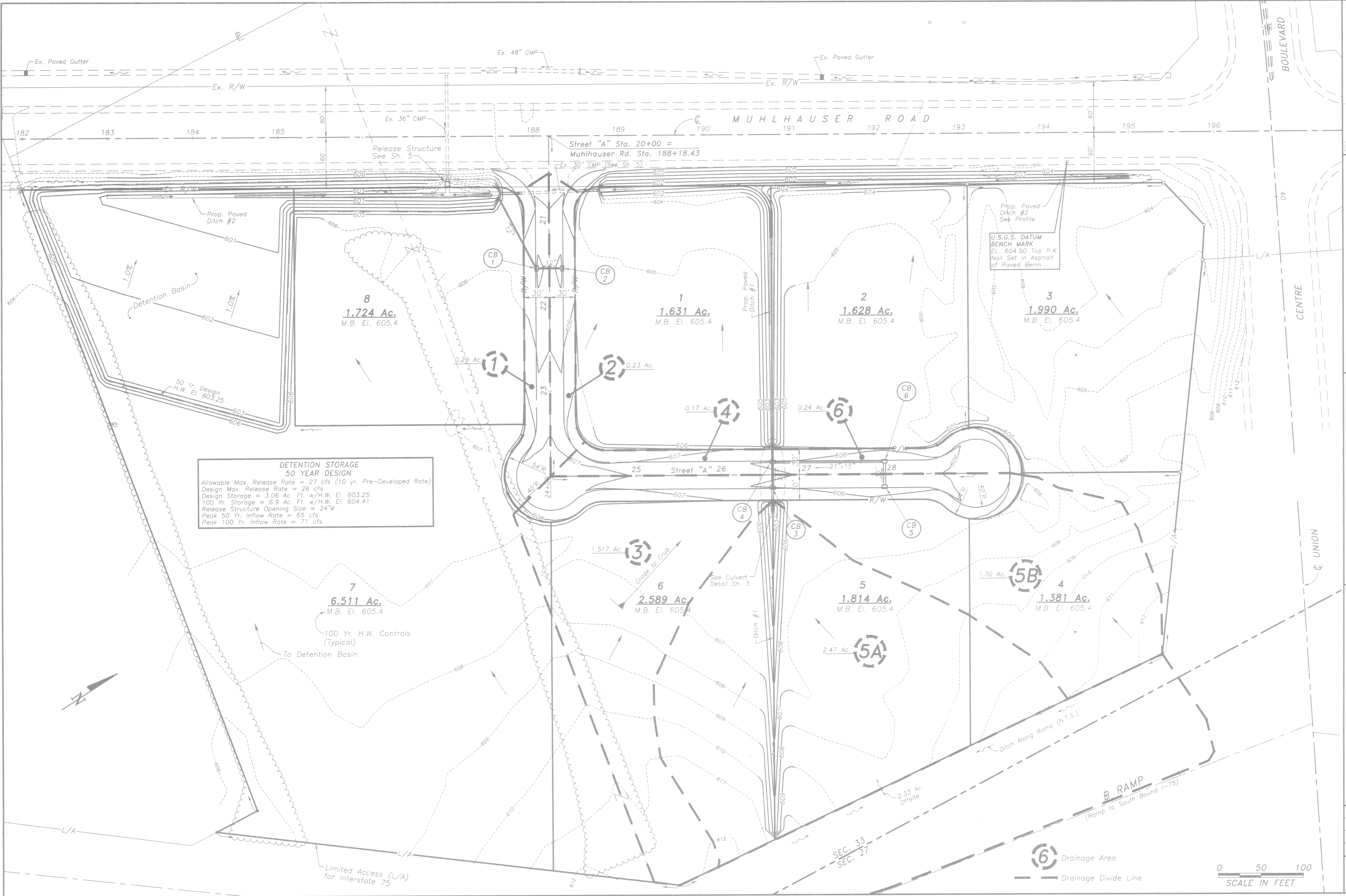
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LEGEND
 x.000.00 Edge of Pavement (E.P.) Elevation @ Gutter
 T/C = E.P. + 0.29'
 Note (A): Back of curb to be tapered level to pavement in five (5) feet.



DATE	
DESIGNED BY	M.O.D.
DRAWN BY	C.F.G.
CHECKED BY	M.D.D.
DATE	APRIL 1998
 SCHUMACHER DUGAN CONSTRUCTION, INC. 6355 CENTRE PARK DRIVE, WEST CHESTER, OHIO 45069, 513-777-9800	
PLANS PREPARED BY: DSD CONSULTANTS, INC. Civil Engineering 9319 Locust Dr., Columbus, Ohio 43240, Suite 22 Phone 513-777-9111	
	
INTERSECTION AND CUL-DE-SAC DETAILS UNION CENTRE PARK PHASE 1	
	

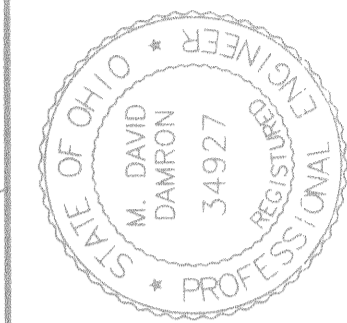
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**DETENTION STORAGE
50 YEAR DESIGN**

Allowable Max. Release Rate = 27 cfs (10 yr. Pre-Developed Rate)
 Design Max. Release Rate = 26 cfs
 Design Storage = 3.06 Ac. Ft. w/H.W. El. 603.25
 100 Yr. Storage = 6.9 Ac. Ft. w/H.W. El. 604.41
 Release Structure Opening Size = 24"
 Peak 50 Yr. Inflow Rate = 65 cfs
 Peak 100 Yr. Inflow Rate = 71 cfs

U.S.G.S. DATUM
BENCHMARK
E.L. 604.50 Top P.K.
Nail Set in Asphalt
of Paved Berm



PLANS PREPARED BY
DSD CONSULTANTS, INC.
Civil Engineering
9319 Glenhurst-Courthouse Road, Suite 22
West Chester, Ohio 45069
Phone 513-777-9111

**SCHUMACHER
DUGAN
CONSTRUCTION, INC.**
6355 CENTRE PARK DRIVE
WEST CHESTER, OHIO 45069
513-777-9800



**GRADING PLAN
UNION CENTRE PHASE 1**

DESIGNED M.D.D.
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DATE APRIL 1998

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