PRELIMINARY PLAT

FOR

TIMBERLAKE

AN ADDITION TO THE CITY OF DECATUR, ILLINOIS

LEGAL DESCRIPTION

The Northwest Quarter (N.W. 1/4) of the Northeast Quarter (N.E. 1/4) of Section 16, Township 16 North, Range 3 East of the 3rd P.M., except the West 158.5 of the North 437, and except beginning at the Northeast corner of said Northwest Quarter (N.W. 1/4) of the Northeast Quarter (N.E. 1/4); thence Southerly 11.3 feet along the East Line of the said tract; thence Westerly 241.4 feet along a line parallel with the North line of the said tract; thence Northwesterly 322.8 feet along a line to a point on the North line 564 feet Westerly of the Northeast corner of said tract; thence Easterly 564 feet along the North line of said tract to the point of beginning, and except beginning at a point 650 feet South of the Northeast corner of the said Northwest Quarter (N.W. 1/4) of the Northeast Quarter (N.E. 1/4); thence East 134 feet; thence North 250; thence West 134 feet to the point of beginning.

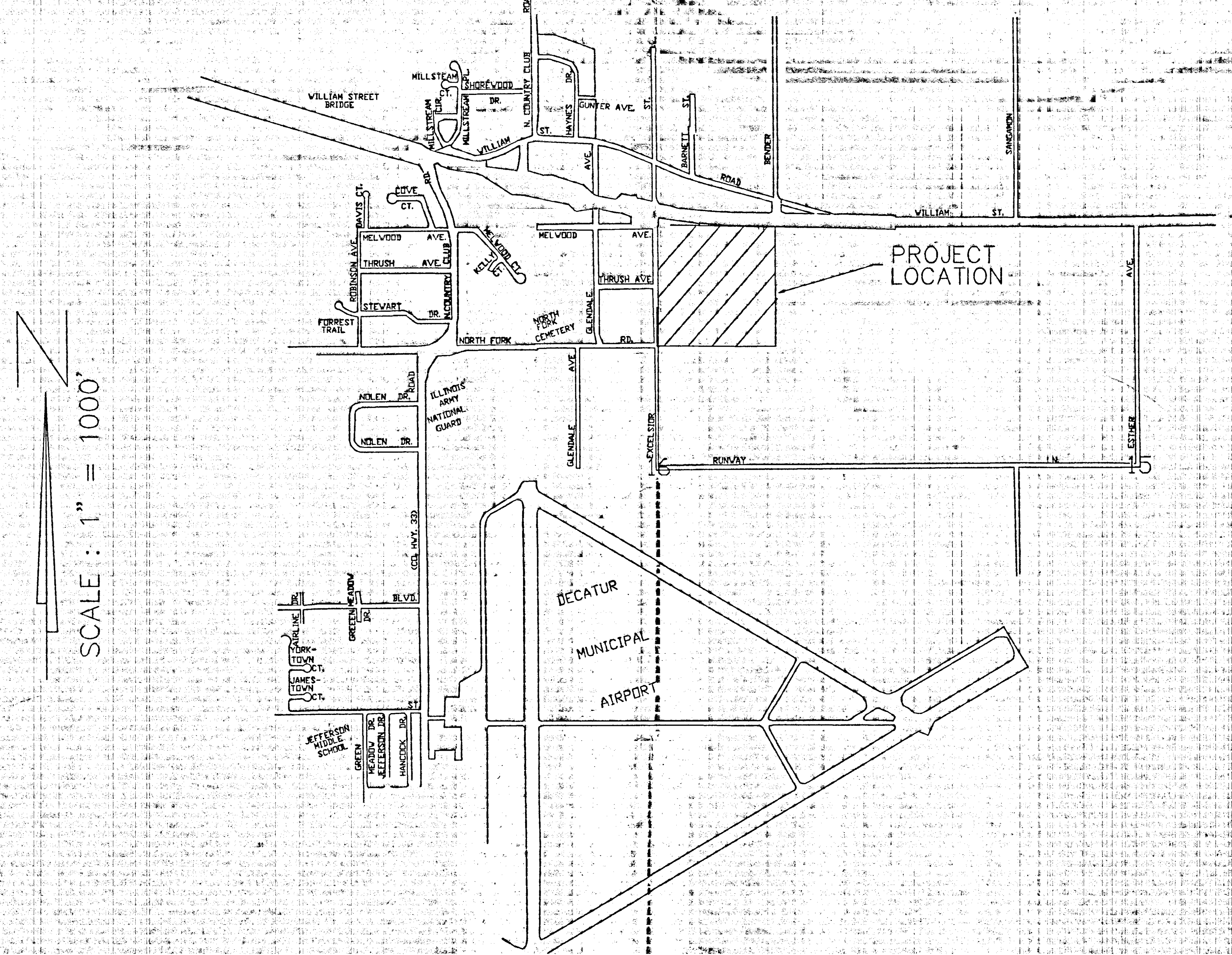
AND

A triangle parcel of land being a part of the Southwest Quarter (S.W. 1/4) of the Southeast Quarter (S.E. 1/4) of Section 9, Township 16 North, Range 3 East of the 3rd P.M., Macon County, Illinois, described as follows: Beginning on the South Line of the Southeast Quarter (S.E. 1/4) of said Section at a point 564 feet West of the Southeast corner of the Southwest Quarter (S.W. 1/4) of the Southeast Quarter (S.E. 1/4) of said Section 9; thence Westerly along the South Line of the said Northeast Quarter (N.E. 1/4) of said Section 9 for 273.5 feet; thence Northerly for 30 feet; thence Southeasterly for 275.99 feet to the place of beginning, containing 37.63 acres, more or less.

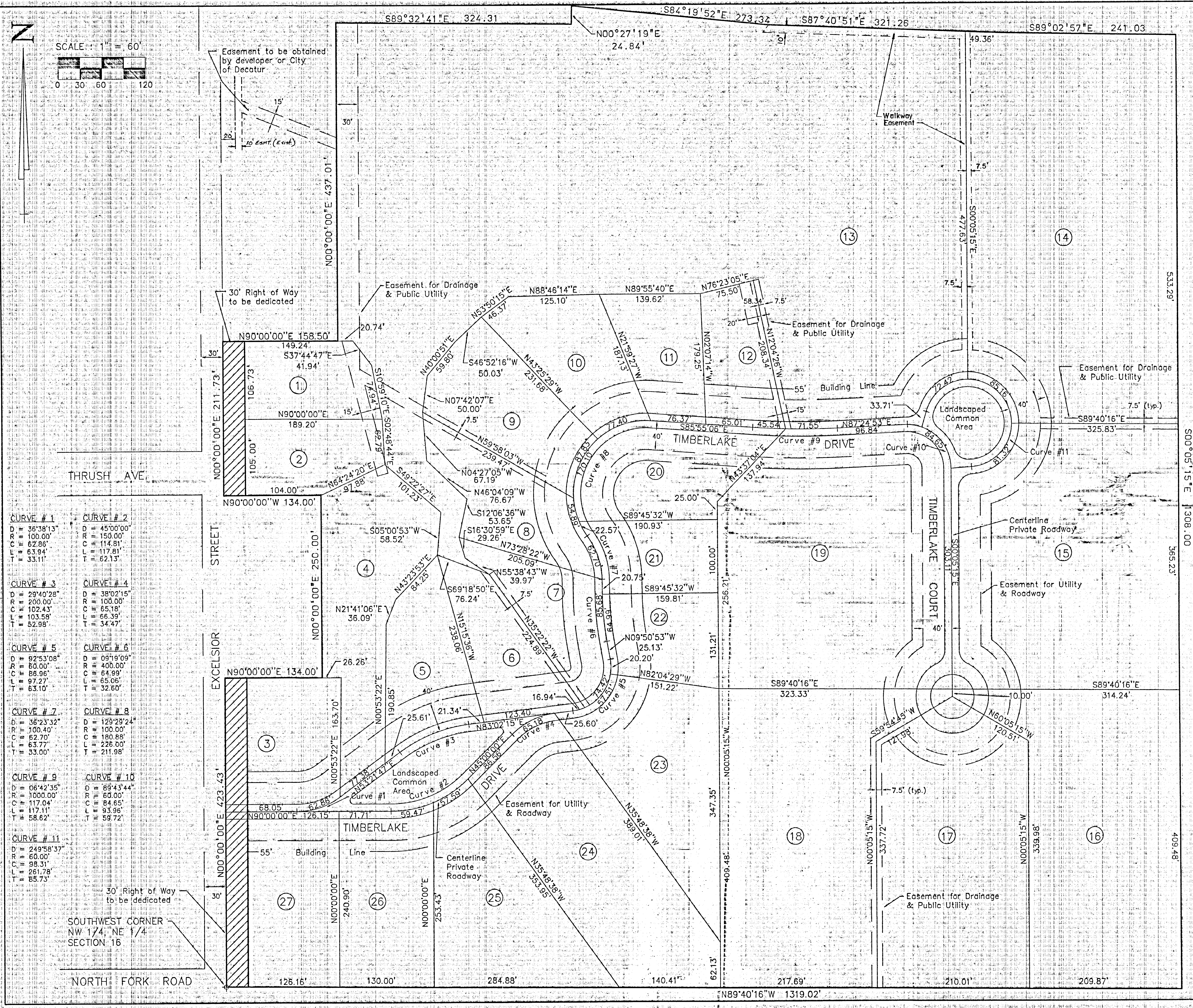
OWNER/SUBDIVIDER

PAUL HOPKINS

INDEX OF SHEETS



COVER SHEET					
TIMBERLAKE					
phillip w. cochran consulting engineer 2602 north morgan decatur, il 62526 phone (217) 875-3333 fax 875-3371					
drawn by dwm date 2/10/99	REVISIONS				project no. 9896
	No.	BY	DATE	DESCRIPTION	
plan by date	1	SPM	4/8/99	EROSION CONTROL/SHT 3	field book no. 176
checked by date					sheet no. 1



CURVE # 1	CURVE # 2
D = 36°38'13"	D = 45°00'00"
R = 100.00'	R = 150.00'
C = 62.86'	C = 114.81'
L = 63.94'	L = 117.81'
T = 33.11'	T = 62.13'

CURVE # 3	CURVE # 4
D = 29°40'28"	D = 38°02'15"
R = 200.00'	R = 100.00'
C = 102.43'	C = 65.18'
L = 103.58'	L = 66.39'
T = 52.98'	T = 34.47'

CURVE # 5	CURVE # 6
D = 92°53'08"	D = 09°19'09"
R = 60.00'	R = 400.00'
C = 86.96'	C = 64.99'
L = 97.27'	L = 65.06'
T = 63.10'	T = 32.60'

CURVE # 7	CURVE # 8
D = 36°23'32"	D = 129°29'24"
R = 100.40'	R = 100.00'
C = 62.70'	C = 180.88'
L = 63.77'	L = 226.00'
T = 33.00'	T = 211.98'

CURVE # 9	CURVE # 10
D = 06°42'35"	D = 89°43'44"
R = 1000.00'	R = 60.00'
C = 117.04'	C = 84.65'
L = 117.11'	L = 93.96'
T = 58.62'	T = 59.72'

CURVE # 11
D = 249°58'37"
R = 60.00'
C = 98.31'
L = 261.78'
T = 85.73'

NOTES

1. ALL DIMENSIONS ON CURVES ARE CHORD DIMENSIONS.
2. A PART OF THIS PROPERTY COVERED BY THIS PLAT, OR SUBDIVISION IS SITUATED WITHIN 500 FEET OF A SURFACE DRAIN OR WATERCOURSE SERVING A TRIBUTARY AREA OF 640 ACRES OF MORE.
3. ALL EASEMENTS ARE FOR DRAINAGE AND PUBLIC UTILITIES UNLESS OTHERWISE STATED.
4. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF DECATUR STANDARD SPECIFICATIONS FOR STREETS, STORM SEWER, SANITARY SEWER AND WATERMAIN CONSTRUCTION WHERE APPLICABLE.
5. IF CITY OF DECATUR STANDARD SPECIFICATIONS DO NOT COVER ANY ITEMS OF WORK, ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE OF ILLINOIS'STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION, LATEST REVISION AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. ALL OF THIS PROPERTY IS WITHIN THE CORPORATE LIMITS OF THE CITY OF DECATUR.
7. RADII AT STREET INTERSECTIONS ARE 25 FEET UNLESS OTHERWISE DESIGNATED.
8. ALL STREETS TO BE PRIVATE, TO BE OWNED AND MAINTAINED BY THE OWNERS.
9. STREET LIGHTS TO BE PROVIDED BY THE DEVELOPER AT A LEVEL TO EXCEED THE MINIMUM STANDARD PROVIDED BY THE CITY OF DECATUR ON COMPARABLE PUBLIC STREETS. ALL STREET LIGHTS TO BE PRIVATELY OWNED.

DRAINAGE STATEMENT

We, the undersigned respectively a Registered Professional Engineer and the Owner or Owners of the land subdivided hereby or the duly authorized attorney of such owner or owners, state that to the best of our knowledge and belief the drainage of the surface waters will not be changed by the construction of such subdivision or any part thereof, or, that if such surface water drainage is changed, reasonable provision has been made for the collection and diversion of surface waters into public areas, or drains which the subdivider or subdividers have a right to use, and that such surface waters will be planned for in accordance with the generally accepted engineering practices so as to reduce the likelihood of damage to the adjoining property because of the construction of the subdivision.

Owner

Phillip W. Cochran
Illinois Registered Professional Engineer
No. 32393

PHILLIP W. COCHRAN
035-002456

PHILLIP W. COCHRAN
062-32393

SITE DATA

TOTAL AREA – LOTS	37.176 AC.
TOTAL AREA – RIGHT OF WAY	0.437 AC.
TOTAL AREA –	37.613 AC.

BENCHMARK : NORTH RIM
SANITARY MANHOLE @ EXCELSIOR ST.
ELEVATION = 657.28

PRELIMINARY PLAT

TIMBERLAKE

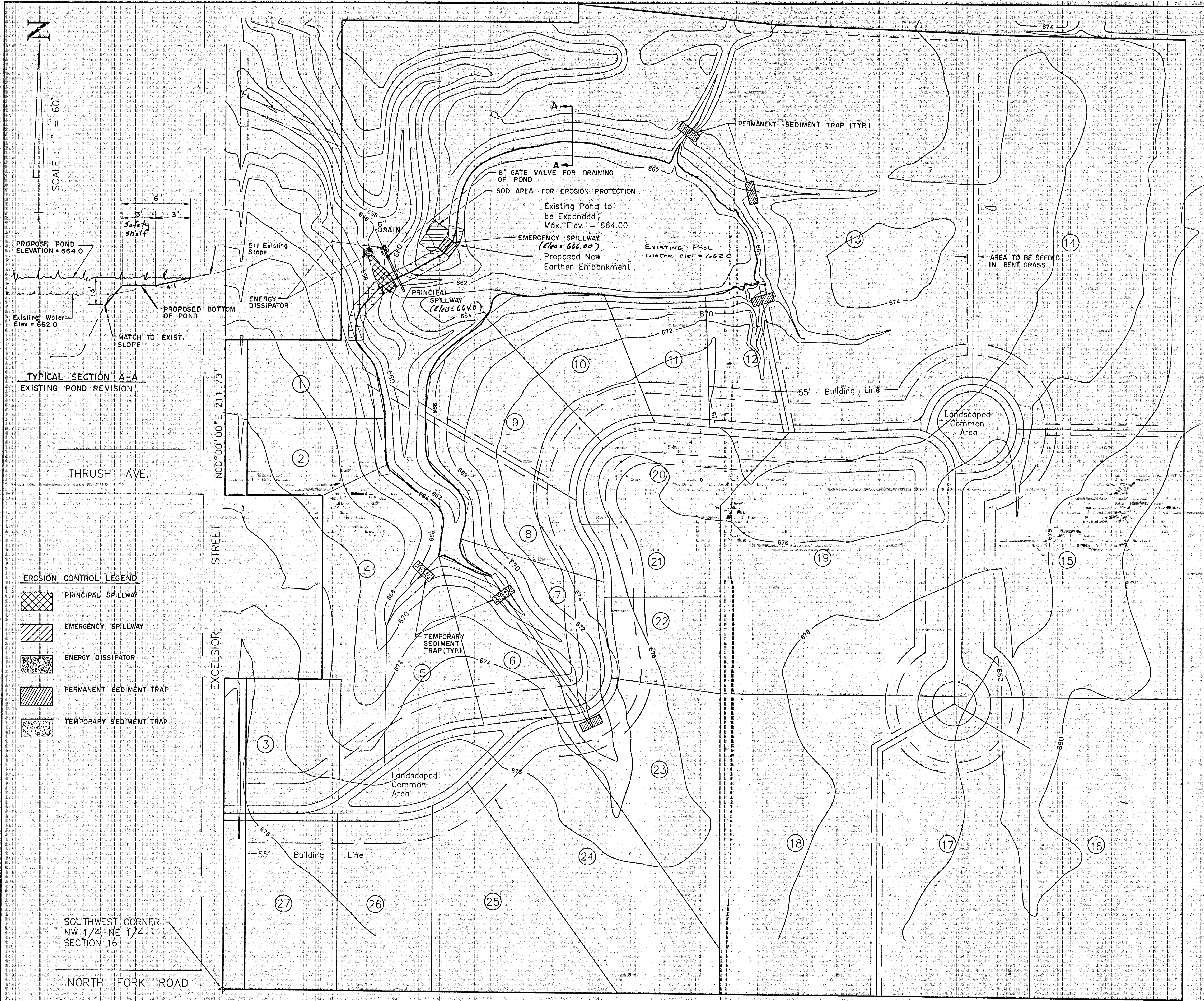
PWC
phillip w. cochran consulting engineer
270 west prairie decatur, il 62523
phone (217) 422-4300 fax 422-0426

drawn by dwm
date 2/10/99
checked by
date
apprvd. by
date

REVISIONS

No.	BY	DATE	DESCRIPTION
1	SPM	3/12/99	ESMTS & NOTE 9
2	spm	4/8/99	Delete Lot 28

project no. 9896
field book no. 176
sheet no. 2



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2. MACON COUNTY SOIL AND WATER CONSERVATION TO DESIGN NEW EARTHEN EMBANKMENT AND OUTLET.

EROSION CONTROL NOTES

1. A 50' grassed buffer will be maintained around pond perimeter
2. Earthen embankment, principal spillway, emergency spillway, and energy dissipater will be sized according to hydrology and will meet USDA-NRCS Standard 378 in Section 4 of the USDA-NRCS Technical Guide. A drain shall be installed through earthen embankment to allow for de-watering of pond for maintenance purposes.
3. Permanent sediment traps will be constructed in the specified areas prior to any development. Traps shall allow for de-watering of basin to prevent standing water. The sediment traps temporary pool area shall be seeded to permanent vegetation. Traps shall be maintained throughout construction phase and an operation and maintenance program will be in place throughout the life of the addition.
4. Temporary sediment traps shall be installed in specified areas prior to any development. Traps shall be maintained throughout construction phases to prevent failure. The traps shall be checked after each significant rainfall event to make sure they are functioning properly.
5. All drainage ways shall be seeded to permanent grass vegetation after final grading. Excelsior matting shall be installed in drainage ways to control velocities until vegetation has been established.
6. Each individual lot shall maintain a grass buffer during development of no less that 20' or they my use Silt fence installed according Macon County SWCD. Denuding of vegetation shall be kept to a minimum during the development of the lot. Other erosion control measures may be required on a site specific basis.
7. Macon County SWCD may assist developer and/or lot owners with erosion control measures.
8. Walkways shall use Bent grass or some other form of turfgrass that will survive in high traffic areas and frequent mowing. The United States Golf Association (USGA) has done over twenty years of research on the benefits of turfgrass for erosion control and environmental benefits. The USGA found that turgrasses benefit our communities and the environment by:
    - Reducing loss of topsoil from wind and water erosion, absorbing and filtering rain and runoff water
    - Recharging ground and surface water
    - Captures and cleans runoff water from urban areas
    - Improves the soil and restores damaged areas
    - Improves air quality and moderates temperature
    - Reduces noise, glare and visual polution

EROSION CONTROL PLAN

BENCHMARK : NORTH RIM
SANITARY MANHOLE @ EXCELSIOR ST.
ELEVATION = 657.28

TOPOGRAPHIC PLAN

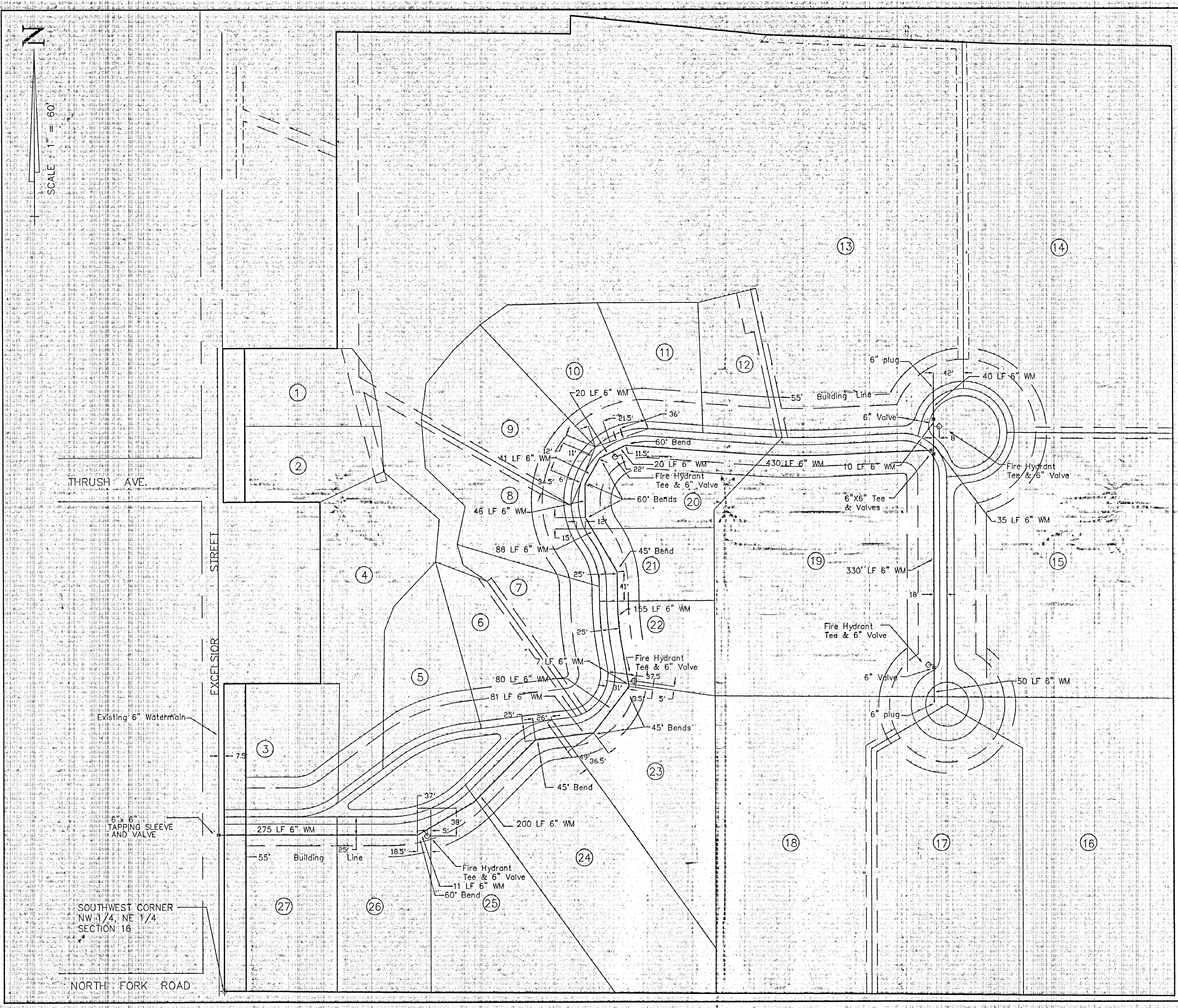
TIMBERLAKE

PWC
phillip w. cochran consulting engineer
270 west prairie, decatur, il 62523
phone (217) 422-4300 fax 422-0426

drawn by dwm
date 2/10/99
checked by
date
apprvd. by
date

No.	BY	DATE	DESCRIPTION
1	SPM	3/12/99	Remove Note 3 & Add Esmt
2	SPM	4/8/99	Delete Lot 28 & Add Erosion
3	SPM	4/15/99	Add pond Drain Valve & Erosion Notes
4	SPM	4/28/99	TYP. SEC A-A for Pond
5	PWC	5/5/99	Revise sec A A for Pond

project no. 9896
field book no. 176
sheet no. 3



NOTES

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2. ALL TRENCHES WITHIN TWO (2) FEET OF A PAVED SURFACE SHALL BE BACKFILLED WITH CA-6 MATERIAL.

3. EACH LOT SHALL BE SERVED WITH A 1 INCH COPPER SERVICE LEAD.

BENCHMARK : NORTH RIM
SANITARY MANHOLE @ EXCELSIOR ST.
ELEVATION = 657.28

WATERMAIN PLAN

TIMBERLAKE

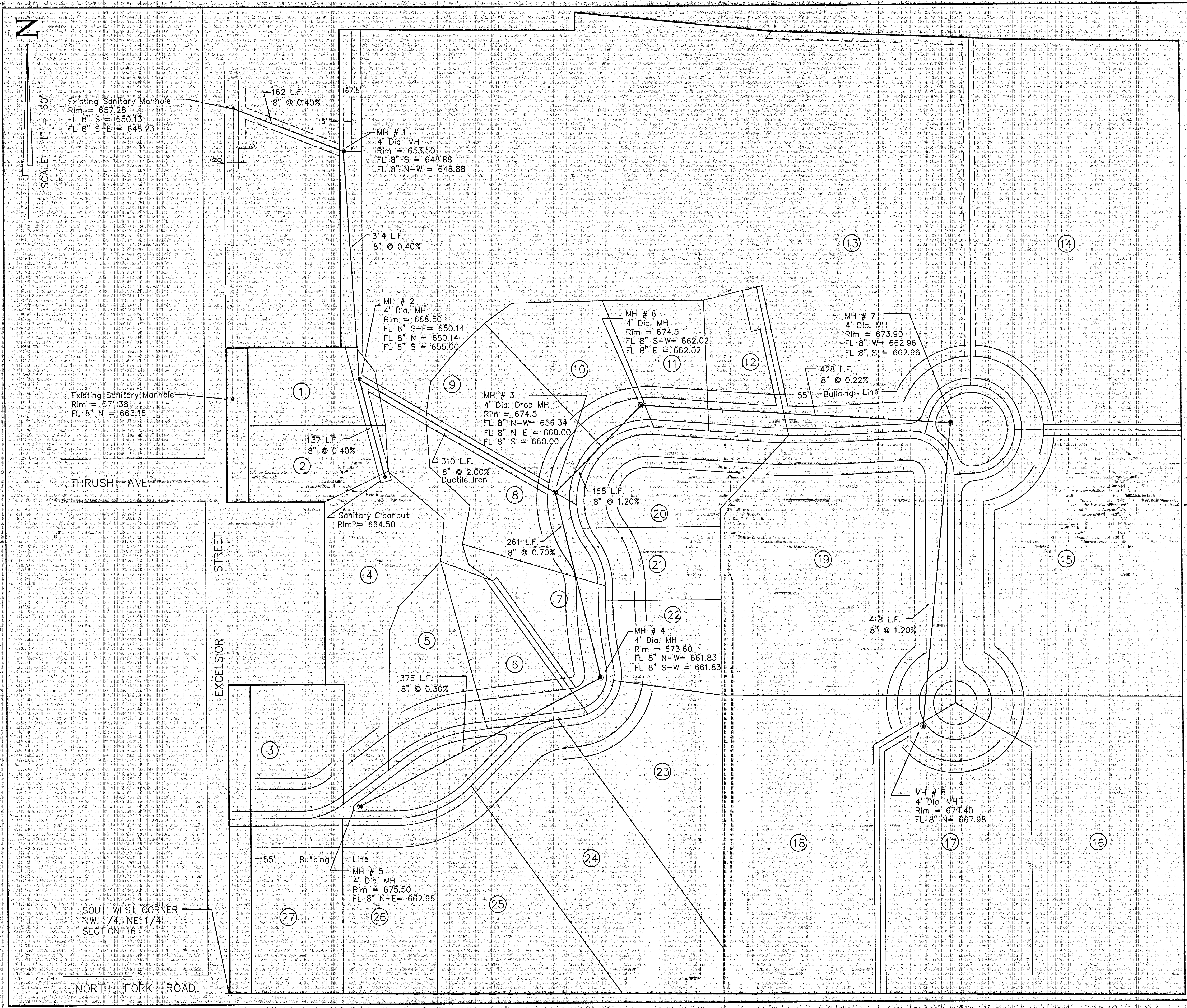
PWC
phillip w. cochran consulting engineer
270 west prairie decatur, il 62523
phone (217) 422-4300 fax 422-0426

drawn by dwm
date 2/8/99
checked by
date
apprvd. by
date

REVISIONS

No.	BY	DATE	DESCRIPTION
1	SPM	3/12/99	ESMTS.
2	SPM	4/8/99	Delete Lot 28

project no. 9896
field book no. 176
sheet no. 4



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2. ALL TRENCHES WITHIN TWO (2) FEET OF A PAVED SURFACE SHALL BE BACKFILLED WITH CA-6 MATERIAL.

3. EACH LOT SHALL BE SERVED WITH A FOUR (4) INCH SERVICE LEAD.

4. ALL SANITARY SEWER SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH ASTM 2321, CLASS I REQUIREMENTS.

5. MATERIAL SPECIFICATIONS FOR SANITARY SEWER

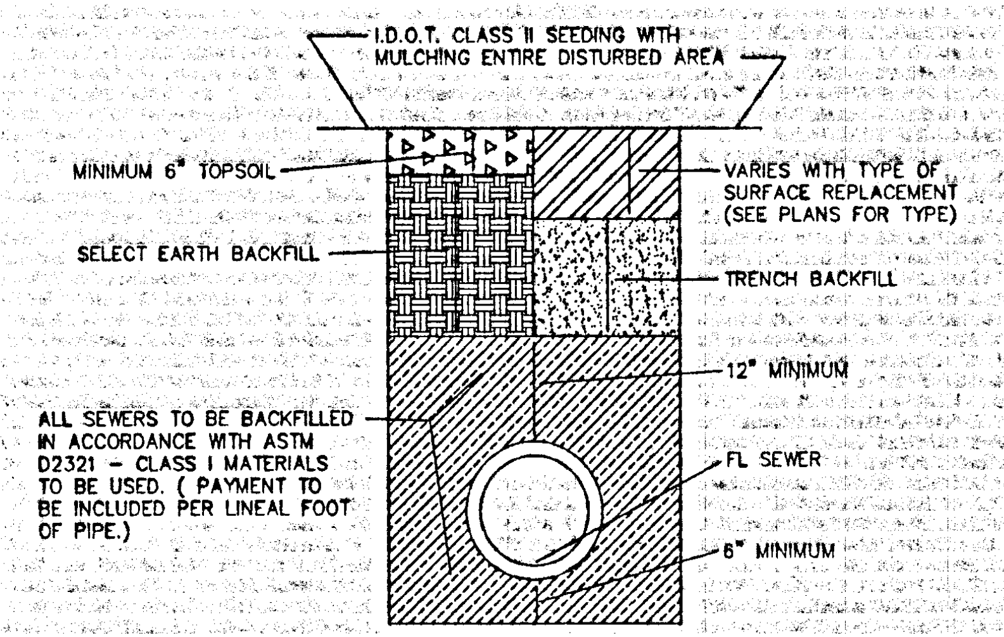
   A) PIPE - TRUSS ASTM 2680
   B) JOINTS - SOLVENT WELD ASTM D2564 & ASTM D2855
   C) MANHOLES - 4' DIAMETER Conc. W/ TYPE 1 FRAME, CLOSED LID

6. ALL MANHOLES TO BE TESTED BY INFILTRATION METHOD.

7. ALL PIPE TO BE TESTED USING AIR AND DEFLECTION TESTING AS PER STANDARD SPECIFICATIONS.

8. ALL SEWER AND WATER SEPARATION TO MEET SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS.

TYPICAL SECTION SEWER



BENCHMARK : NORTH RIM
SANITARY MANHOLE @ EXCELSIOR ST.
ELEVATION = 657.28

SANITARY SEWER PLAN

TIMBERLAKE

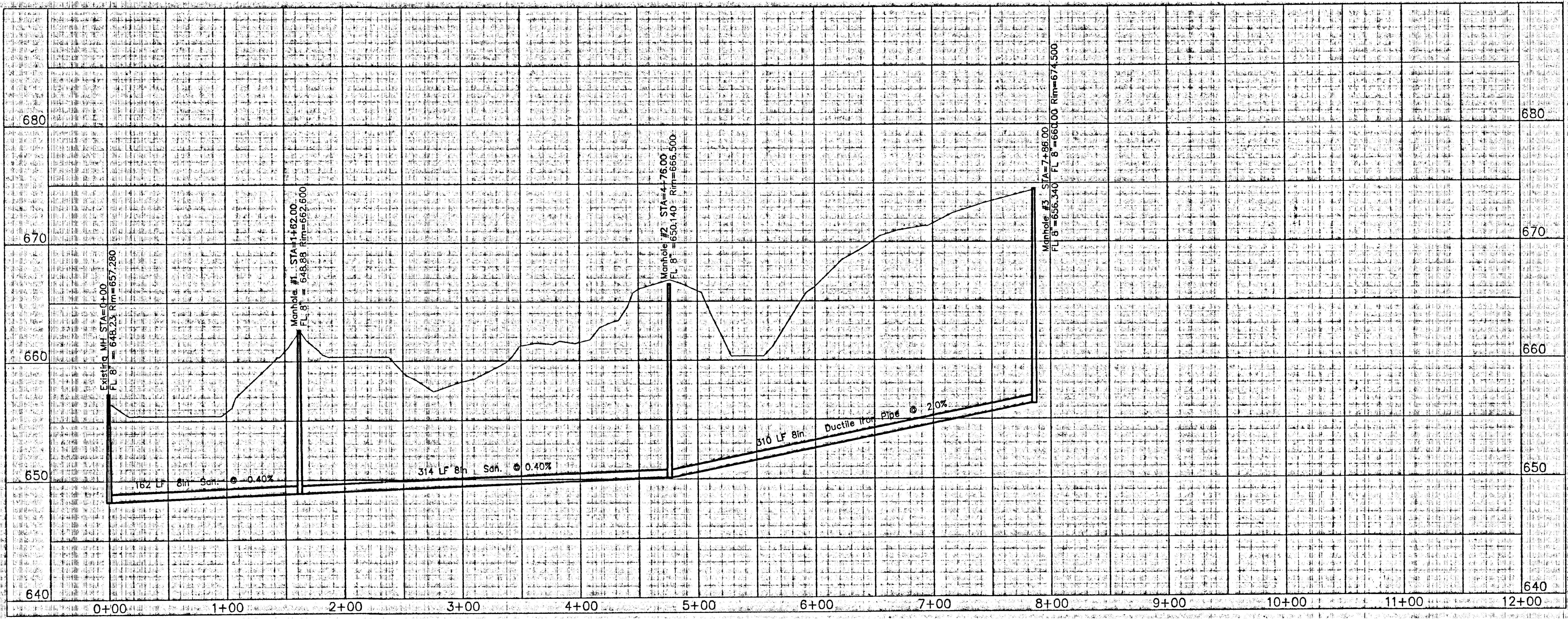
PWC
phillip w. cochran consulting engineer
270 west prairie decatur, il 62523
phone (217) 422-4300 fax 422-0426

drawn by dwm
date 2/10/99
checked by
date
apprvd. by
date

REVISIONS

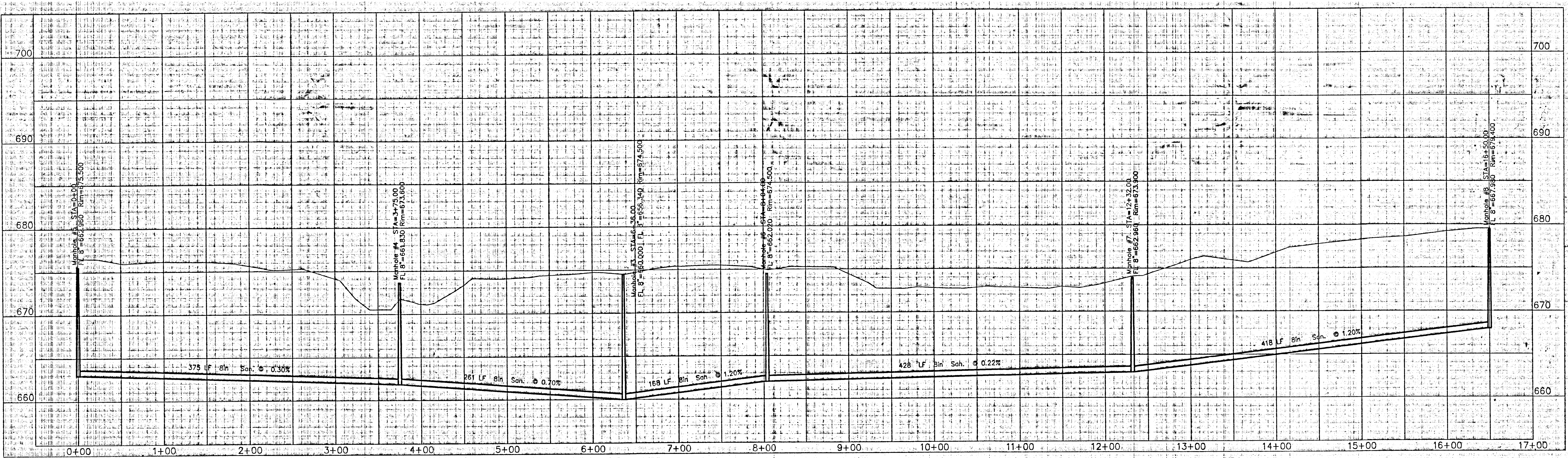
No.	BY	DATE	DESCRIPTION
1	5pm	3/12/99	Esmts
2	5pm	4/8/99	Delete Lot 28

project no. 9896
field book no. 176
sheet no. 5



SCALE

HORZ. 1"=60'
VERT. 1"=6'



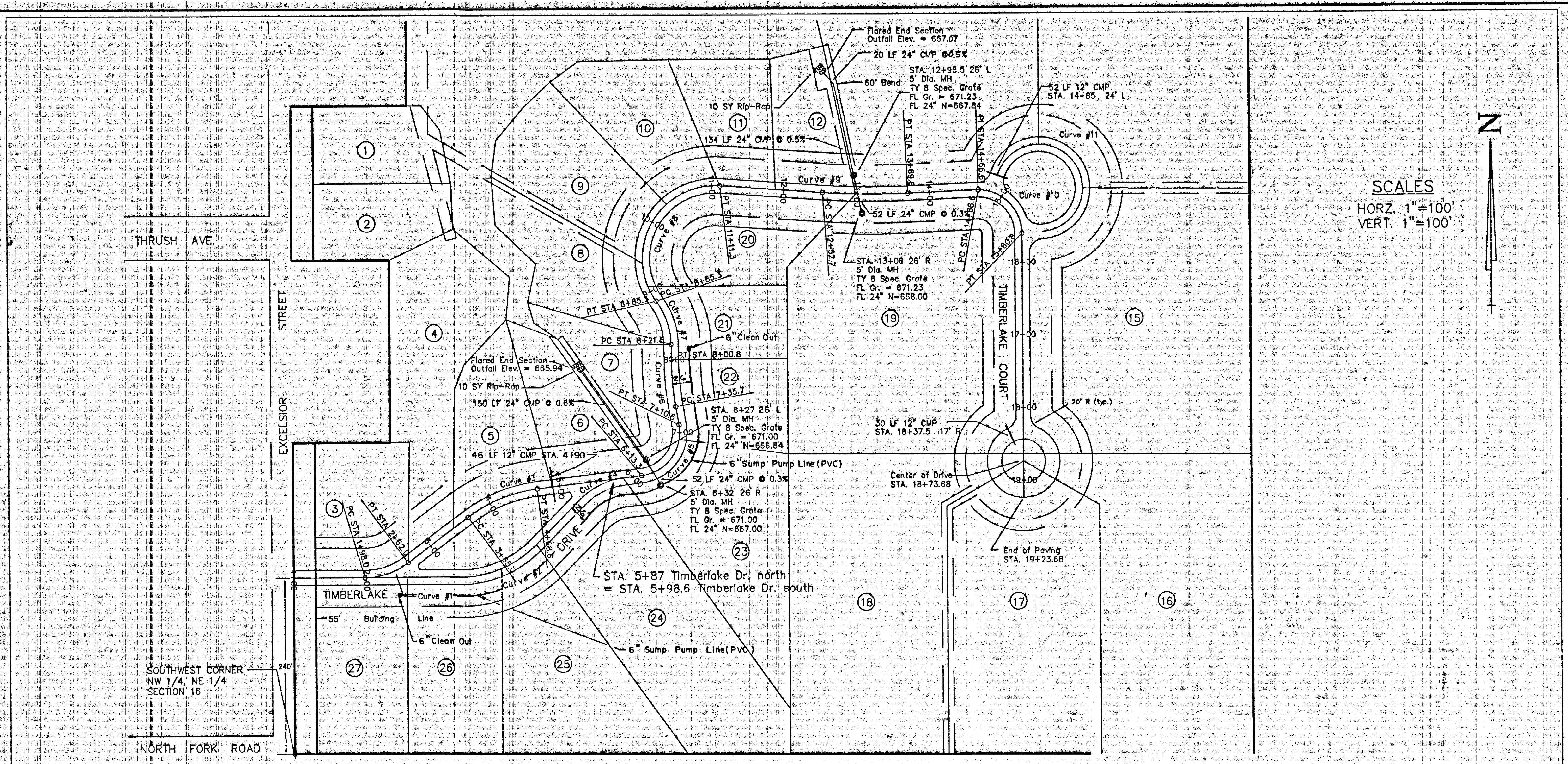
BENCHMARK : NORTH RIM
SANITARY MANHOLE @ EXCELSIOR ST.
ELEVATION = 657.28

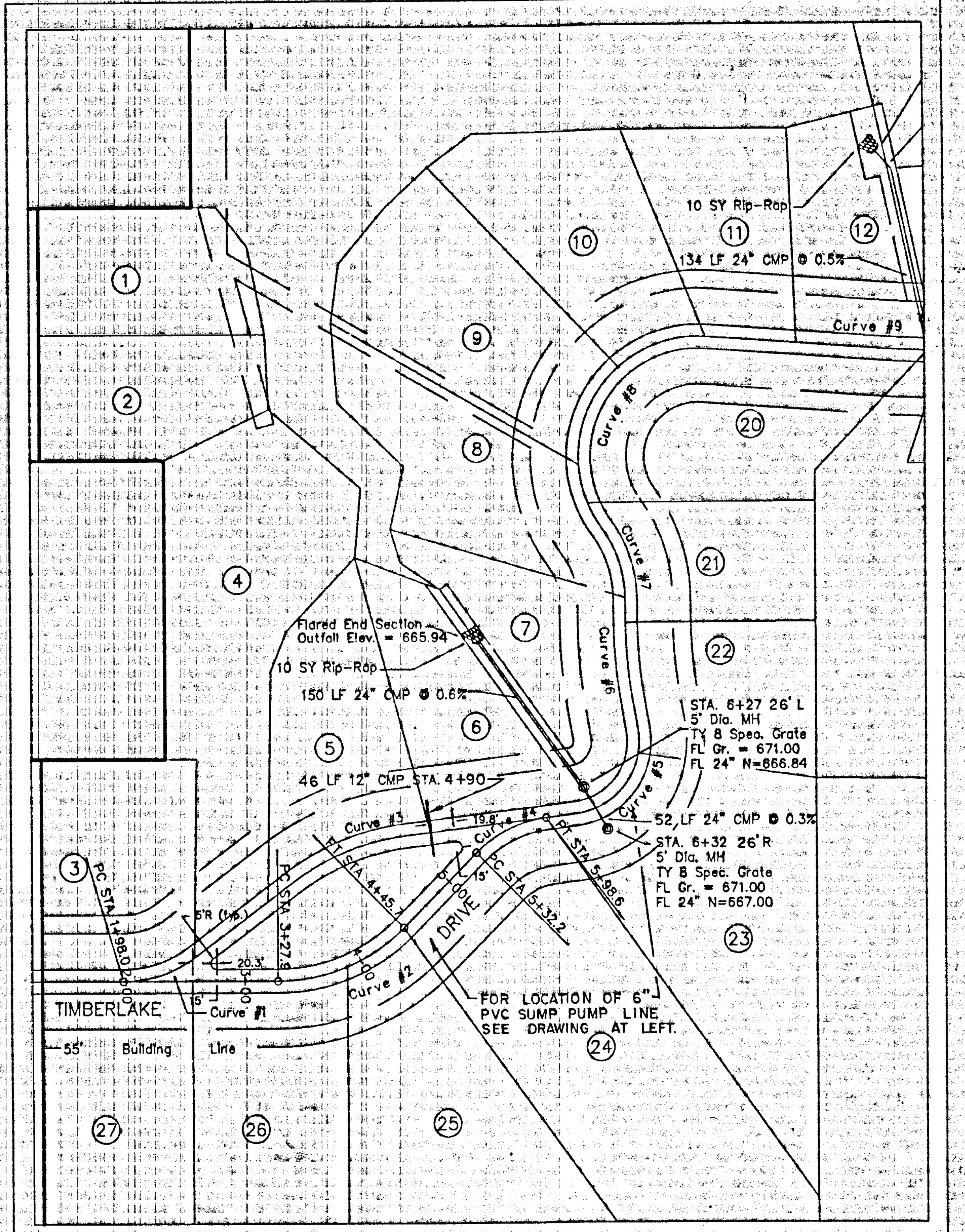
SANITARY SEWER PROFILE

TIMBERLAKE

PWC
phillip w. cochran consulting engineer
270 west prairie decatur, il 62523
phone (217) 422-4300 fax 422-0426

	REVISIONS				
drawn by dwm date 2/10/99	No.	BY.	DATE	DESCRIPTION	project no. 9896
checked by date					field book no. 176
apprvd. by date					sheet no. 6





CURVE # 1
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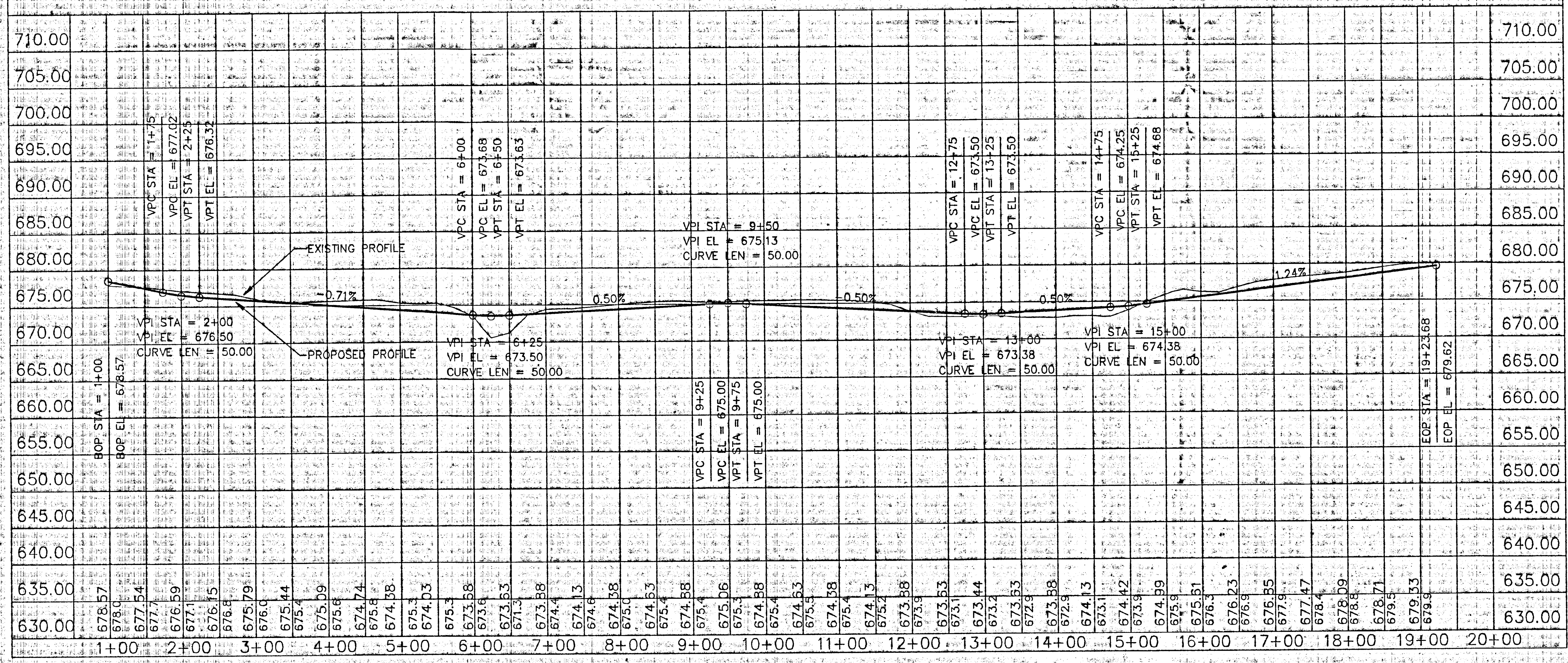
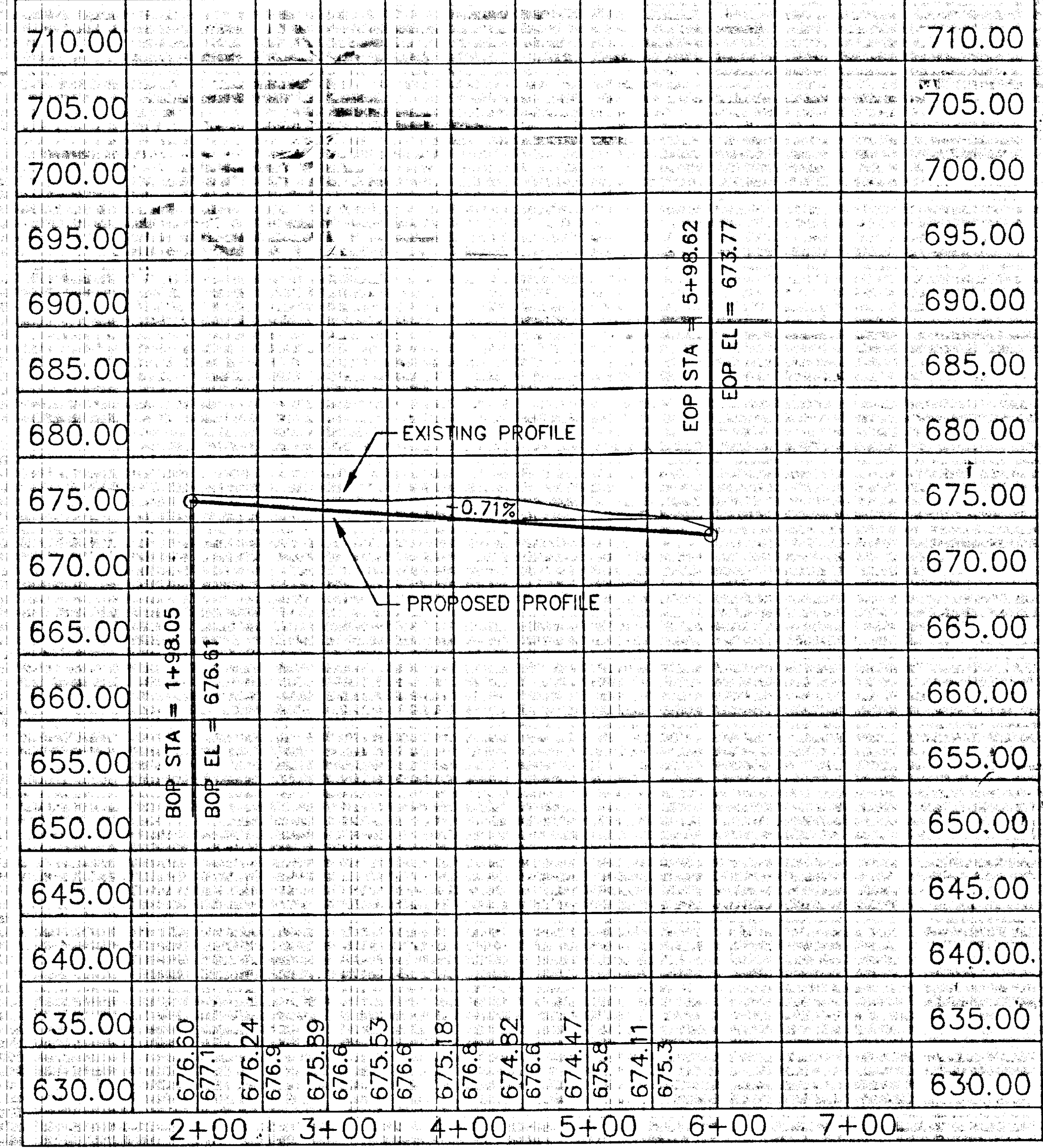
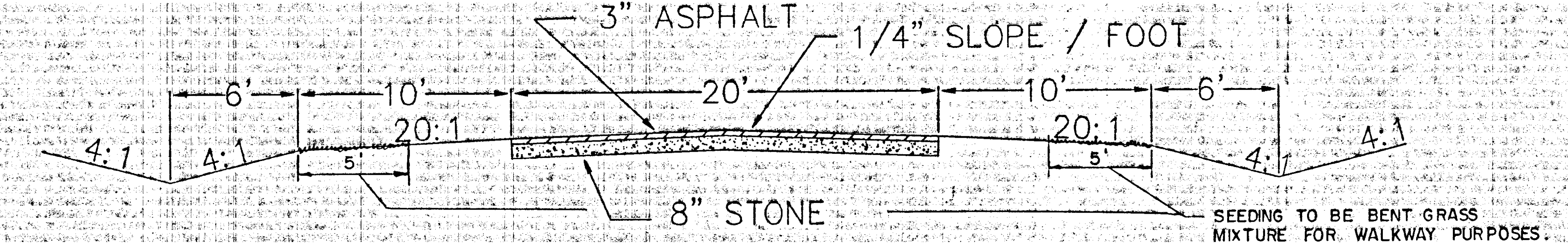






PRIVATE ROADWAY SECTION

BENCHMARK : NORTH RIM
SANITARY MANHOLE @ EXCELSIOR ST.
ELEVATION = 657.28

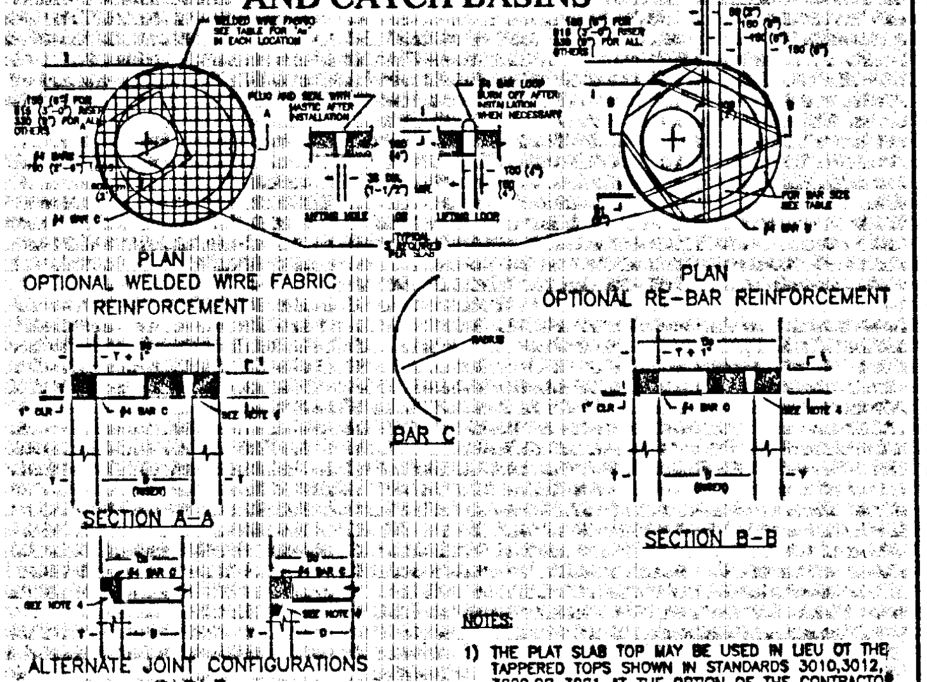
PLAN / PROFILE

TIMBERLAKE

phillip w. cochran consulting engineer
2602 north morgan decatur, il 62526
phone (217) 875-3333 fax 875-3371

	REVISIONS				
topo by dwm date 2/10/99	No.	BY	DATE	DESCRIPTION	project no. 9896
plan by	1	SPM	3/12/99	Add 6" Sump Line & Rev. Culverts	field book no. 176
date	2	SPM	4/15/99	Rev. Private Rdway Section	
checked by					sheet no. 7
date					

STANDARD DESIGN PRECAST REINFORCED CONCRETE FLAT SLAB TOP FOR MANHOLES AND CATCH BASINS



TABLE

D	T	Do (MIN)	T	REINFORCEMENT "As" WWF OR EACH DIRECTION	BAR SIZE	#4 BAR C LENGTH	#4 BAR C RADIUS
.09 m (3')	[illegible]	D + 8"	150 (6")	[illegible]	100 (4")	1.2 m (4')	0.5 m (1'-7")
1 m (3'-4")		D + 8"	150 (6")	[illegible]	130 (5")	1.3 m (4'-3")	0.6 m (1'-10")
1.2 m (4')		D + 8"	150 (6")	[illegible]	130 (5")	1.4 m (4'-6")	0.7 m (2'-3")
1.5 m (5')		D + 8"	150 (6")	[illegible]	130 (5")	1.5 m (5')	0.8 m (2'-6")

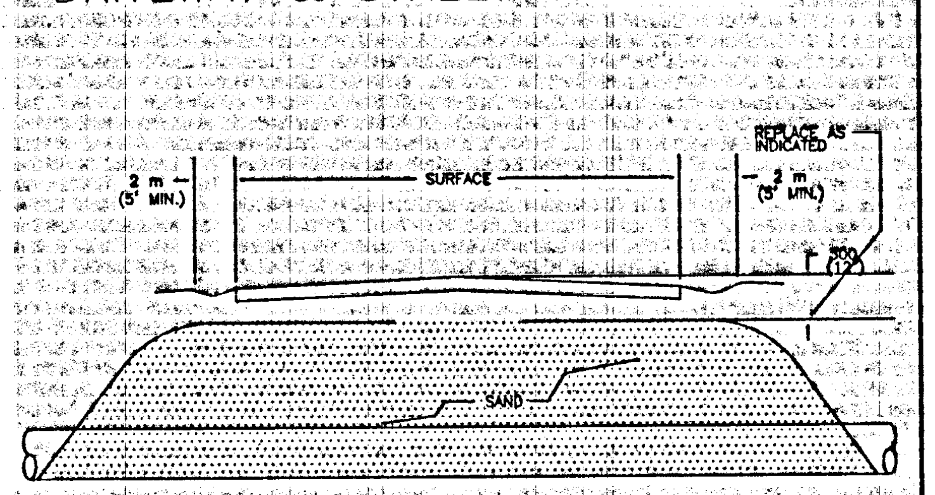
NOTES:

1) THE PLAT SLAB TOP MAY BE USED IN LIEU OT THE TAPPERED TOPS SHOWN IN STANDARDS 3010,3012, 3020,OR 3021 AT THE OPTION OF THE CONTRACTOR OR WHEN FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS.
2) JOINT CONFIGURATION AND DIMINSIONS SHALL MATCH AND FIT THE RISER JOINT DETAIL.
3) LIFTING DEVICES OTHER THAN SHOWN MAY BE USED UPON APPROVAL BY THE ENGINEER.
4) ALL MASONRY JOINTS IN THE STRUCTURE SHALL BE SEALED USING PERMAGUM ROPE MASTIC OR APPROVED EQUAL. ADJUSTING RINGS AND THE CASTING SHALL BE SEALED USING 2 LOOPS OF 20 (3/4") PERMAGUM ROPE MASTIC.

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
ADOPTED [illegible]
DIRECTOR OF PUBLIC WORKS
ISSUED:
REVISIONS
BY | DATE

STANDARD# 2100

STANDARD DESIGN DRIVEWAY & STREET CROSSINGS



TYPICAL SECTION

EXISTING PAVEMENT	REPLACEMENT MATERIALS
STONE	200 (8") AGGREGATE SURFACE COURSE TY. B
*ASPHALT TREATMENT	51 (2") CLASS I ASPHALT 127 (5") BITUMINOUS ASPHALT MATERIAL
*FLEXIBLE BASE PAVEMENTS	
RIGID PAVEMENTS	P.C. CONC. BASE OR PAVEMENT 51 (2") GREATER THICKNESS THAN EXISTING, 200 (8") MIN.

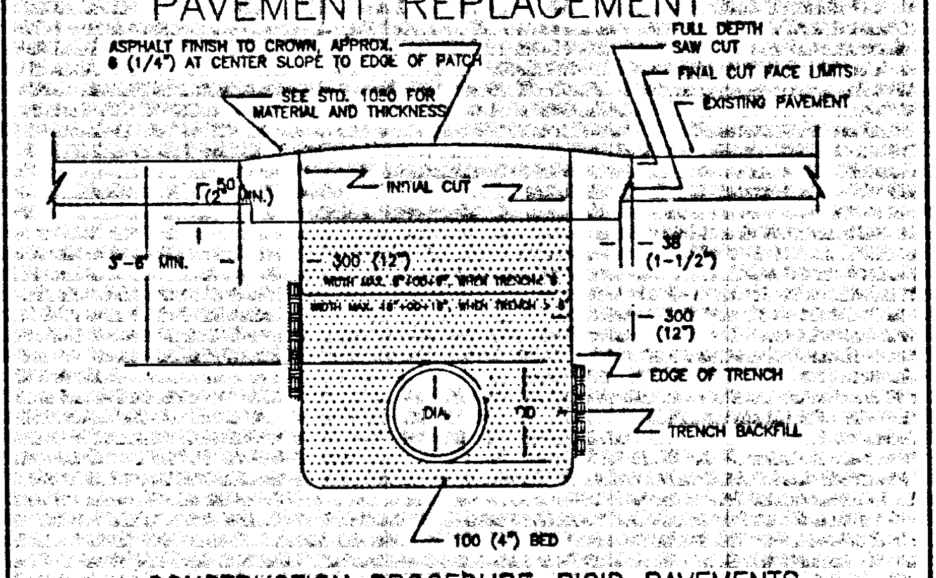
*NOTE

THE PAVEMENT REPLACEMENTS SHOWN ABOVE ARE MINIMUMS, THE EXISTING PAVEMENT CROSS SECTION SHALL DICTATE THE EXACT THICKNESSES WHEN GREATER THAN SHOWN ABOVE.

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
ADOPTED [illegible]
DIRECTOR OF PUBLIC WORKS
ISSUED:
REVISIONS
BY | DATE

STANDARD# 1050

STANDARD DESIGN PAVEMENT REPLACEMENT



CONSTRUCTION PROCEDURE–RIGID PAVEMENTS

A. CONCRETE PAVEMENT
1. THE INITIAL CUT LINE SHALL BE OUTLINED WITH A CHISEL OR SAW CUT OF SUFFICIENT DEPTH TO INSURE THAT THE PAVEMENT TO BE REMOVED CAN BE BROKEN AWAY WITHOUT STRUCTURAL DAMAGE TO THE PAVEMENT REMAINING.
2. THE FINAL CUT LINE SHALL BE MADE BY SAWING TO A MIN. OF 38 (1-1/2") DEPTH AND SHALL BE MADE AFTER THE FINAL TRENCH WIDTH HAS BEEN ESTABLISHED THE GENERAL PLAN OF THE CUT FACE SHALL NOT DEVIATE MORE THAN 38 (1-1/2") FROM THE VERTICAL.

B. ASPHALT PAVEMENT AND BRICK PAVEMENT
1. A PNEUMATIC CHISEL MAY BE USED FOR CUTTING BOTH THE INITIAL CUT LINE AND THE FINAL CUT LINE. AN ADDITIONAL SCORE LINE SHALL BE REQUIRED ON CONCRETE BASE OR SUB-BASE WHERE ENCOUNTERED.

C. ASPHALT PAVEMENT
1. PRIOR TO FILLING A HOLE, THE CUT FACES OF THE EXISTING PAVEMENT SHALL BE GIVEN AN APPLICATION OF ASPHALT RC-70 AT THE RATE OF APPROXIMATELY 0.1 GALLONS PER SQUARE YARD.

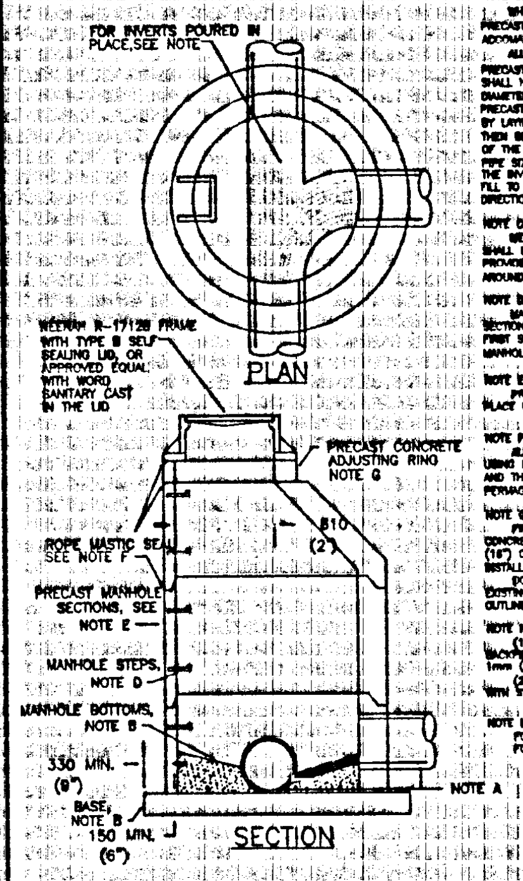
NOTE:

AFTER A PAVEMENT HAS BEEN REPLACED, THE PERIMETER OR THE SAW JOINT SHALL BE SEALED BY AN APPLICATION OF BITUMINOUS MATERIAL

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
ADOPTED [illegible]
DIRECTOR OF PUBLIC WORKS
ISSUED:
REVISIONS
BY | DATE

STANDARD# 1060

STANDARD DESIGN STANDARD DESIGN MANHOLE



NOTE A:
FOR VERTICAL SEPARATIONS GREATER THAN 1mm (2') USE DROPSTION, STANDARD 2030.

NOTE B:
WHEN USING ARMCO TRUSS PIPE, MANHOLE BASES SHALL BE PRECAST WITH CONNECTION OPENINGS SPECIFICALLY DESIGNED TO ACCOMMODATE THE TRUSS PIPE CONNECTION STUB AND GASKET.
ALL OTHER MANHOLES MAY HAVE POURED IN PLACE, PRECAST, OR PRECAST BOTTOMS WITH PREFORMED INVERTS. POURED BASES SHALL HAVE A DIAMETER EXCEEDING THE MANHOLE OUTSIDE DIAMETER BY A MINIMUM OF 450 (18"). ON POURED IN PLACE OR PRECAST BOTTOMS WITHOUT INVERTS THE INVERT SHALL BE FORMED BY LAYING THE SEWER THROUGH THE MANHOLE. THE BOTTOM SHALL THEN BE SHAPED AS SHOWN IN THE STANDARD AND THE UPPER HALF OF THE SEWER CAREFULLY REMOVED. AT MANHOLES WHERE THE PIPE SIZE CHANGES, OR WHERE THERE ARE CHANGES IN DIRECTION, THE INVERT OF THE MANHOLE SHALL BE SHAPED WITH CONCRETE FILL TO ACCOMPLISH THE CHANGE IN ELEVATION, DIAMETER, AND OR DIRECTION BY EASY CURVES.

NOTE C:
METHOD OF SEALING CONNECTION OF SEWER PIPE TO MANHOLE SHALL BE APPROVED BY THE ENGINEER AND SHALL BE SUCH AS TO PROVIDE A WATERTIGHT JUNCTION ELIMINATING ALL INFILTRATION AROUND THE PIPE. MORTAR SHALL NOT BE USED.

NOTE D:
MANHOLE STEP HOLES SHALL BE PRECAST INTO THE MANHOLE SECTION, VERTICAL SPACING SHALL BE A NORMAL 375 (15"). THE FIRST STEP SHALL NOT BE MORE THAN 1mm (2') BELOW THE MANHOLE LID.

NOTE E:
PRECAST MANHOLE SECTIONS SHALL BE REQUIRED. POURED IN PLACE MANHOLES MAY BE ALLOWED IF REQUESTED IN WRITING.

NOTE F:
ALL MASONRY JOINTS IN THE STRUCTURE SHALL BE SEALED USING PERMAGUM ROPE MASTIC OR APPROVED EQUAL. ADJUSTING RINGS AND THE CASTING SHALL BE SEALED USING 2 LOOPS OF 20 (3/4") PERMAGUM ROPE MASTIC.

NOTE G:
FINAL UPWARD ADJUSTMENT TO GRADE SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS. IF THE REQUIRED ADJUSTMENT IS 400 (16") OR GREATER, ADDITIONAL MANHOLE SECTIONS SHALL BE INSTALLED BELOW THE CONE.
DOWNWARD ADJUSTMENT SHALL BE ACCOMPLISHED BY REMOVING EXISTING MASONRY UNITS AND ADJUSTING TO FINAL GRADE AS OUTLINED ABOVE

NOTE H:
(1) ENTIRE EXCAVATION TO BE BACKFILLED WITH TRENCH BACKFILL MATERIAL, IF ANY EDGE OF EXCAVATION IS WITHIN 1mm (2') OF ANY PAVED SURFACE.
(2) BACKFILL AROUND PIPE SHALL BE IN ACCORDANCE WITH STANDARD 2050.

NOTE I:
FOR PIPES LESS THAN 600 (24"), 2mm (4') DIA. M.H. SHALL BE USED.
FOR PIPES 600 (24"), 1050 (42"), 2mm (5') DIA. M.H. SHALL BE USED.

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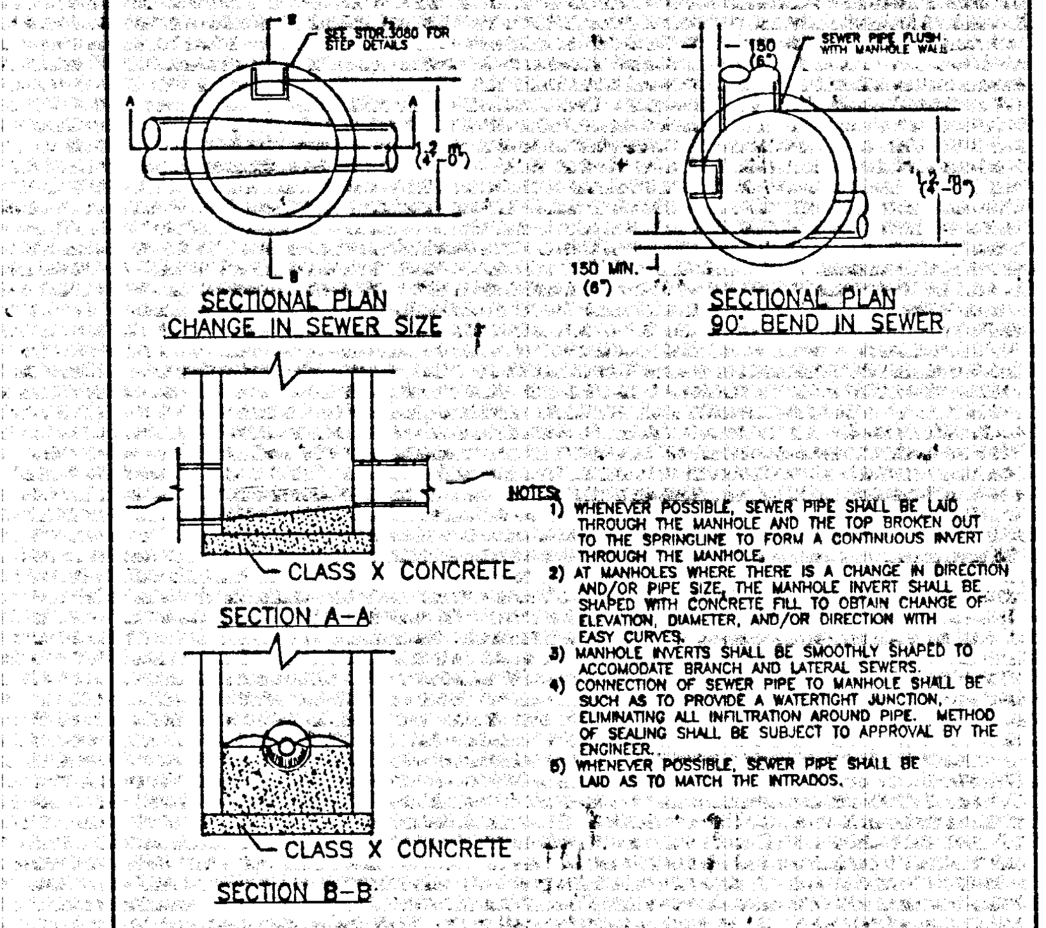
STANDARD# 2000

STANDARD DESIGN MANHOLE DETAILS



NOTES:
1) WHENEVER POSSIBLE, SEWER PIPE SHALL BE LAID THROUGH THE MANHOLE AND THE TOP BROKEN OUT TO THE SPRINGLINE TO FORM A CONTINUOUS INVERT THROUGH THE MANHOLE.
2) AT MANHOLES WHERE THERE IS A CHANGE IN DIRECTION AND/OR PIPE SIZE, THE MANHOLE INVERT SHALL BE SHAPED WITH CONCRETE FILL TO OBTAIN CHANGE OF ELEVATION, DIAMETER, AND/OR DIRECTION WITH EASY CURVES.
3) MANHOLE INVERTS SHALL BE SMOOTHLY SHAPED TO ACCOMODATE BRANCH AND LATERAL SEWERS.
4) CONNECTION OF SEWER PIPE TO MANHOLE SHALL BE SUCH AS TO PROVIDE A WATERTIGHT JUNCTION, ELIMINATING ALL INFILTRATION AROUND PIPE. METHOD OF SEALING SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
5) WHENEVER POSSIBLE, SEWER PIPE SHALL BE LAID AS TO MATCH THE INTRADOS.

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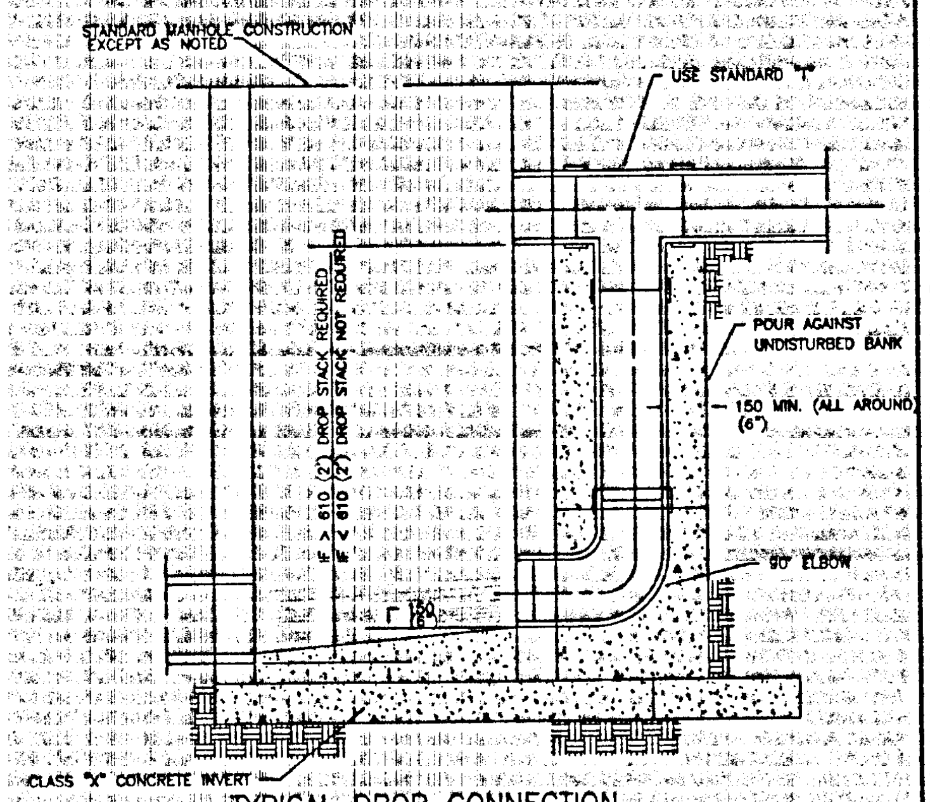
STANDARD# 2010

STANDARD DESIGN DROP STACK



TYPICAL DROP CONNECTION

NOTE:
1 ENTIRE EXCAVATION TO BE BACKFILLED WITH TRENCH BACKFILL MATERIAL, IF ANY EDGE OF EXCAVATION IS WITHIN 610 (2') OF ANY PAVED SURFACE.
2 BACKFILL AROUND PIPE SHALL BE IN ACCORDANCE WITH STANDARD 2050.
3 POURED CONCRETE AROUND VERTICLE PIPE WILL NOT BE REQUIRED IF DROP STACK IS PRECAST WITH MAN HOLE.

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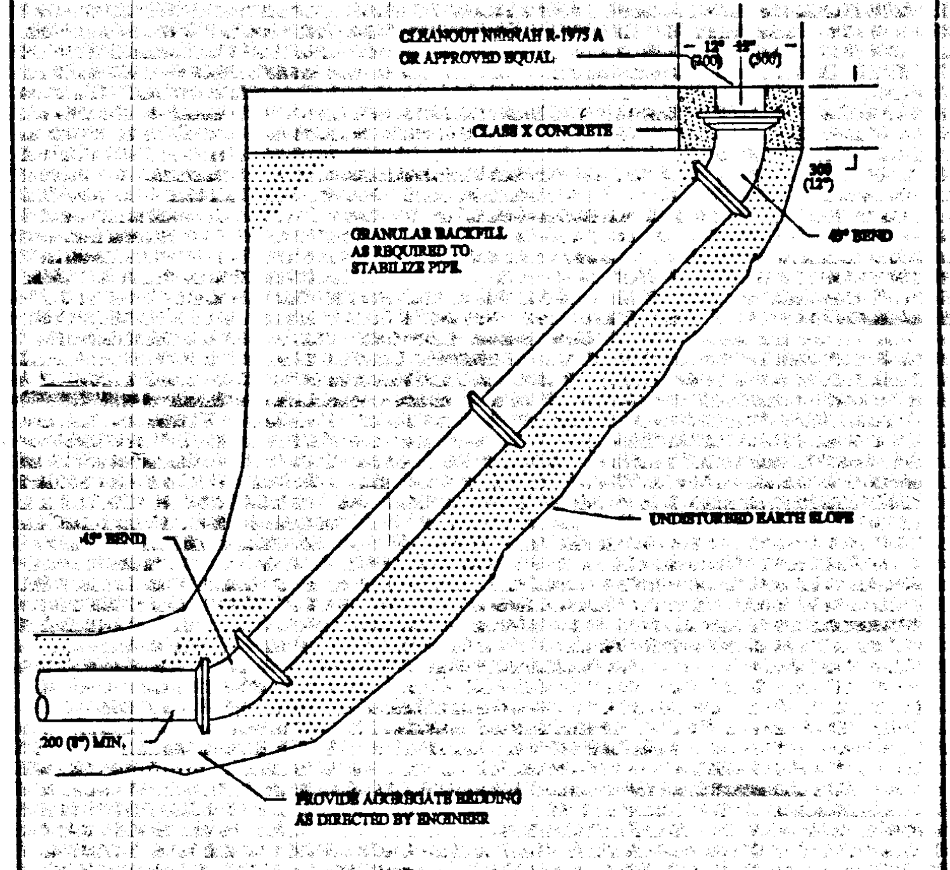
STANDARD# 2030

STANDARD DESIGN CLEANOUT



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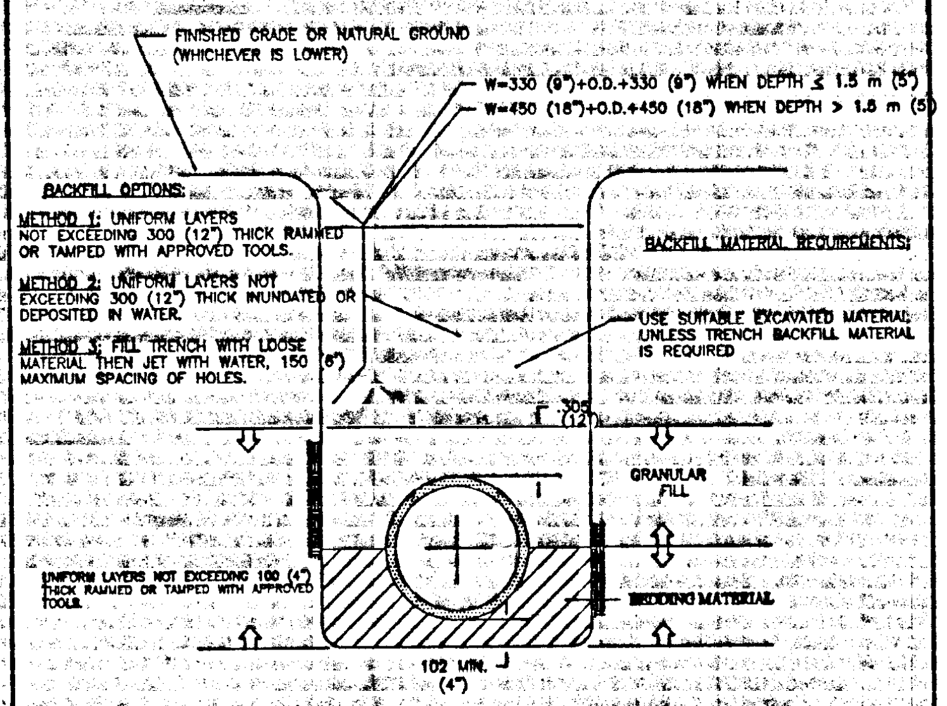
STANDARD# 2040

STANDARD DESIGN TRENCH & BEDDING SANITARY SEWERS STORM SEWERS



GENRAL NOTES:
1. ANY SOFT OR SPONGY MATERIAL ENCOUNTERED BELOW THE GRADE ESTABLISHED SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED BEDDING MATERIAL AS DIRECTED BY THE ENGINEER.
2. ANY ROCK ENCOUNTERED IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 200 (8") BELOW THE PIPE GRADE AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
3. TRENCH BACKFILL MAY BE USED AS BEDDING FROM BOTTOM TO CENTER OF PIPE, INCIDENTAL TO INSTALLATION OF SEWER.

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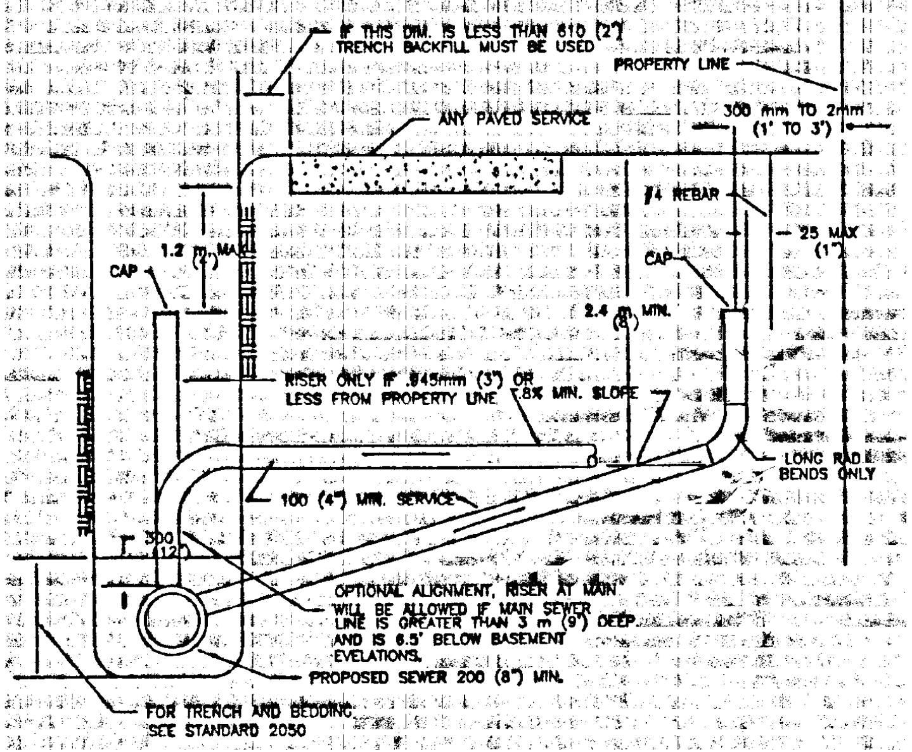
STANDARD# 2050

STANDARD DESIGN TYPICAL RISER DETAIL



NOTES:

CLASS OF PIPE AND TYPE OF JOINT FOR RISER PIPE AND HOUSE CONNECTION SHALL BE AS SPECIFIED IN STANDARD SANITARY SEWER SPECIFICATIONS.

RISER TO BE TIED TI THE NEAREST MANHOLE AND ℄

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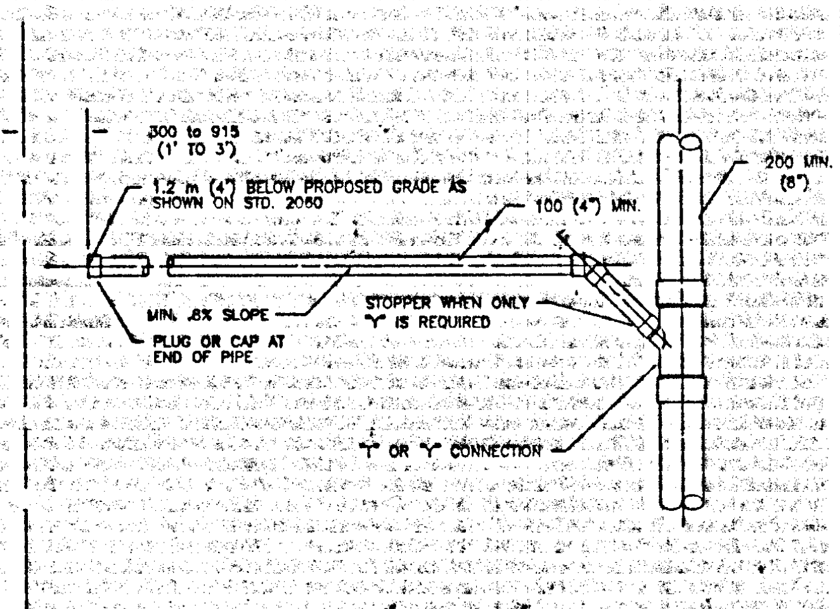
STANDARD# 2060

STANDARD DESIGN TYPICAL HOUSE STUB



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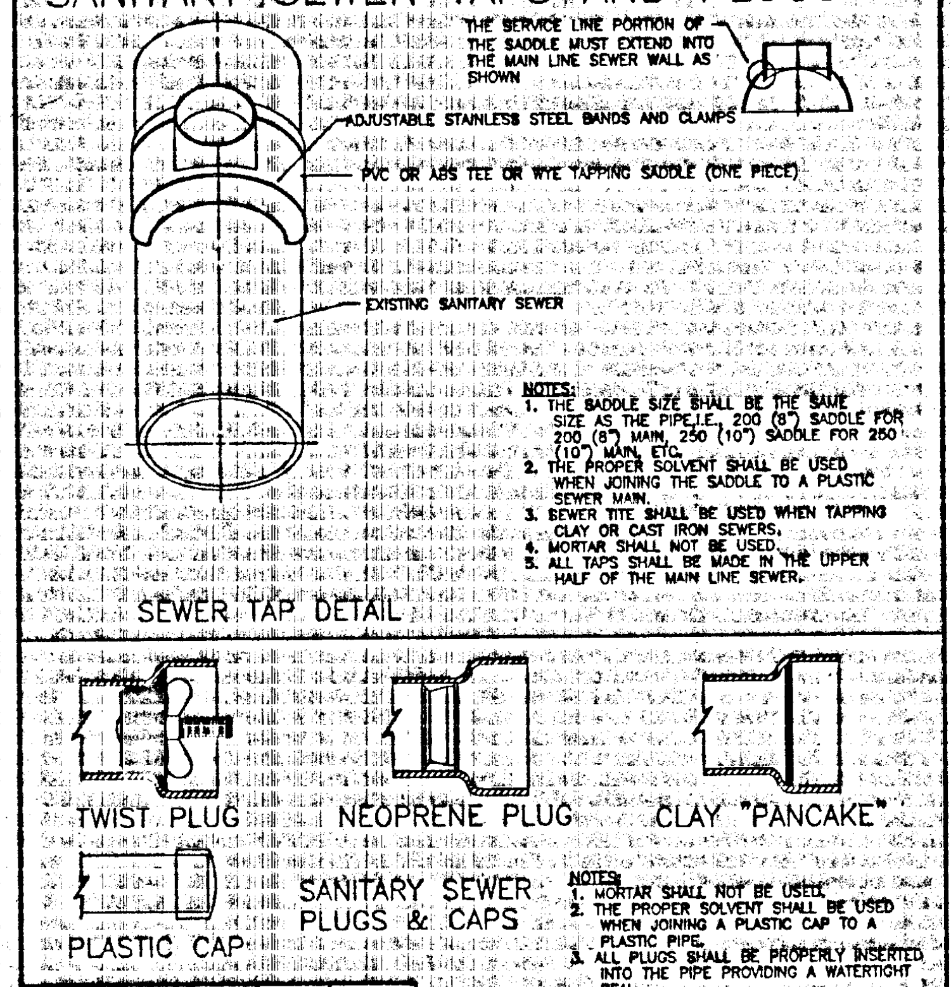
STANDARD# 2070

STANDARD DESIGN SANITARY SEWER TAPS AND PLUGS



NOTES:
1. THE SADDLE SIZE SHALL BE THE SAME SIZE AS THE PIPE,I.E. 200 (8") SADDLE FOR 200 (8") MAIN, 250 (10") SADDLE FOR 250 (10") MAIN, ETC.
2. THE PROPER SOLVENT SHALL BE USED WHEN JOINING THE SADDLE TO A PLASTIC SEWER MAIN.
3. SEWER TITE SHALL BE USED WHEN TAPPING CLAY OR CAST IRON SEWERS.
4. MORTAR SHALL NOT BE USED.
5. ALL TAPS SHALL BE MADE IN THE UPPER HALF OF THE MAIN LINE SEWER.

NOTES:
1. MORTAR SHALL NOT BE USED.
2. THE PROPER SOLVENT SHALL BE USED WHEN JOINING A PLASTIC CAP TO A PLASTIC PIPE.
3. ALL PLUGS SHALL BE PROPERLY INSERTED INTO THE PIPE PROVIDING A WATERTIGHT SEAL.
4. PLUGS AND CAPS OTHER THAN THE TYPES SHOWN HERE MAY BE USED ONLY UPON PERMISSION BY THE ENGINEER.

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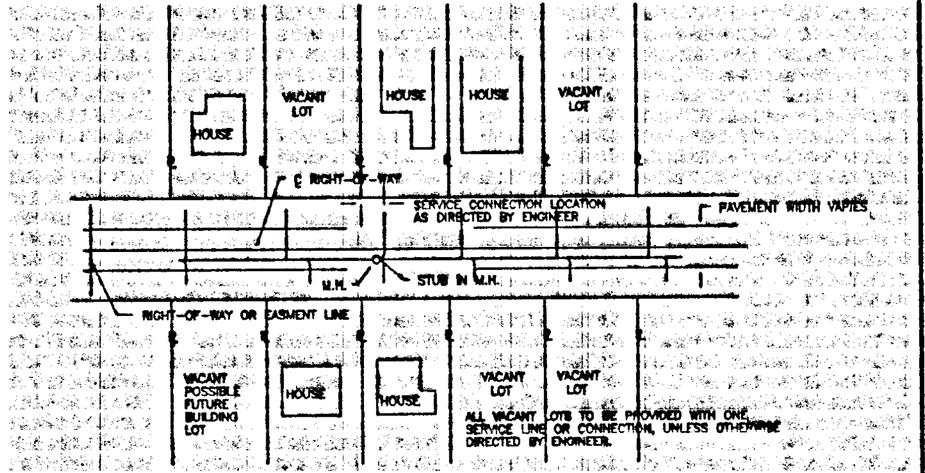
STANDARD# 2071

STANDARD DESIGN TYPICAL HOUSE SERVICE LOCATION DETAILS



TYPICAL DETAIL–SERVICE CONNECTIONS

NOTES:
1. SERVICE LINE TO EXTEND AS SHOWN ON DETAIL AND PLAN SHEETS, EXACT LOCATION OF SEVICES AND "Y" BRANCHES TO BE ESTABLISHED DURING CONSTRUCTION.
2. SERVICE LINES TO BE LAID AT NOT LESS THAN .8% GRADE.
3. ALL "Y" BRANCHES (FUTURE CONNECTIONS) AND LATERAL SERVICE LINES SHALL BE PLUGGED WITH WATERTIGHT STOPPERS.
4. SERVICE LINES SHALL BE A MINIMUM 100 (4") DIAMETER.
5. SERVICE SHALL BE EXTENDED TO WITHIN .300 TO .915 (1' TO 3') OF THE PROPERTY LINE IN ALLEYS AND STREETS. EXTENSION SHALL NOT BE REQUIRED IN EASEMENTS UNLESS SO DESIGNATED IN THE PLANS.
6. ALL TRENCHES UNDER OR WITHIN .610 (2') OF AN EXISTING OR PROPOSED PAVED SURFACE SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL.
7. INSTALLATION DETAILS SHOWN ON STANDARDS 2060 AND 2070.

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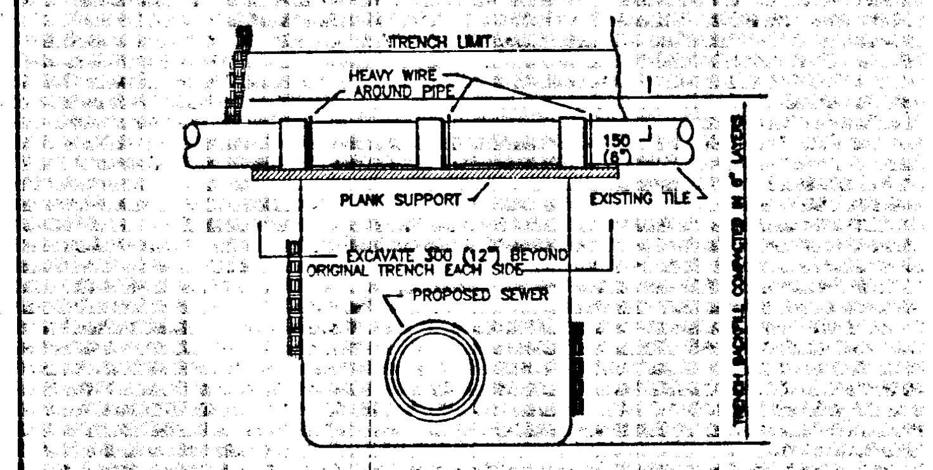
STANDARD DESIGN CROSSING TILE



DETAIL–CROSSED TILE

NOTES

THE PLANK SUPPORT SHALL BE A MINIMUM 50 (2") NOMINAL THICKNESS AND 100 (4") WIDER THAN THE DIAMETER OF THE SUPPORTED PIPE. MORE THAN THE ONE PLANK MAY BE USED BUT NO PLANK SHALL BE LESS THAN 200 (8")

THE SUPPORT PLANK MUST REST ON THOROUGHLY COMPACTED TRENCH BACKFILL THAT HAS BEEN PLACED BEFORE THE PLANK IS INSTALLED.

ALL JOINTS IN THE TRENCH AREA SHALL BE SEALED IN A MANNER APPROVED BY THE INGINEER. MORTAR SHALL NOT BE USED.

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STANDARD# 2090

STANDARD DETAILS

TIMBERLAKE

phillip w. cochran consulting engineer
2602 north morgan decatur, il 62526
phone (217) 875-3333 fax 875-3371

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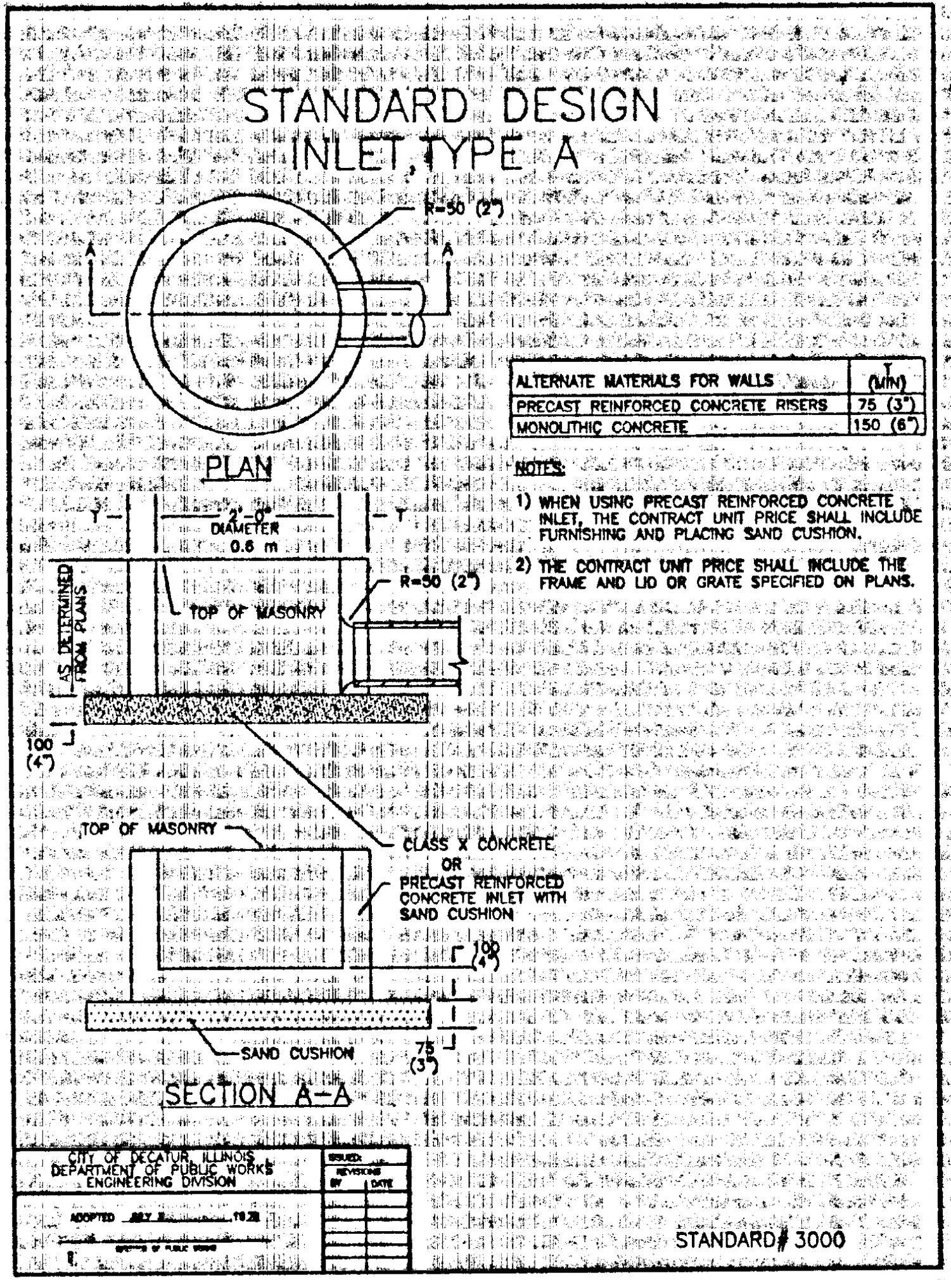
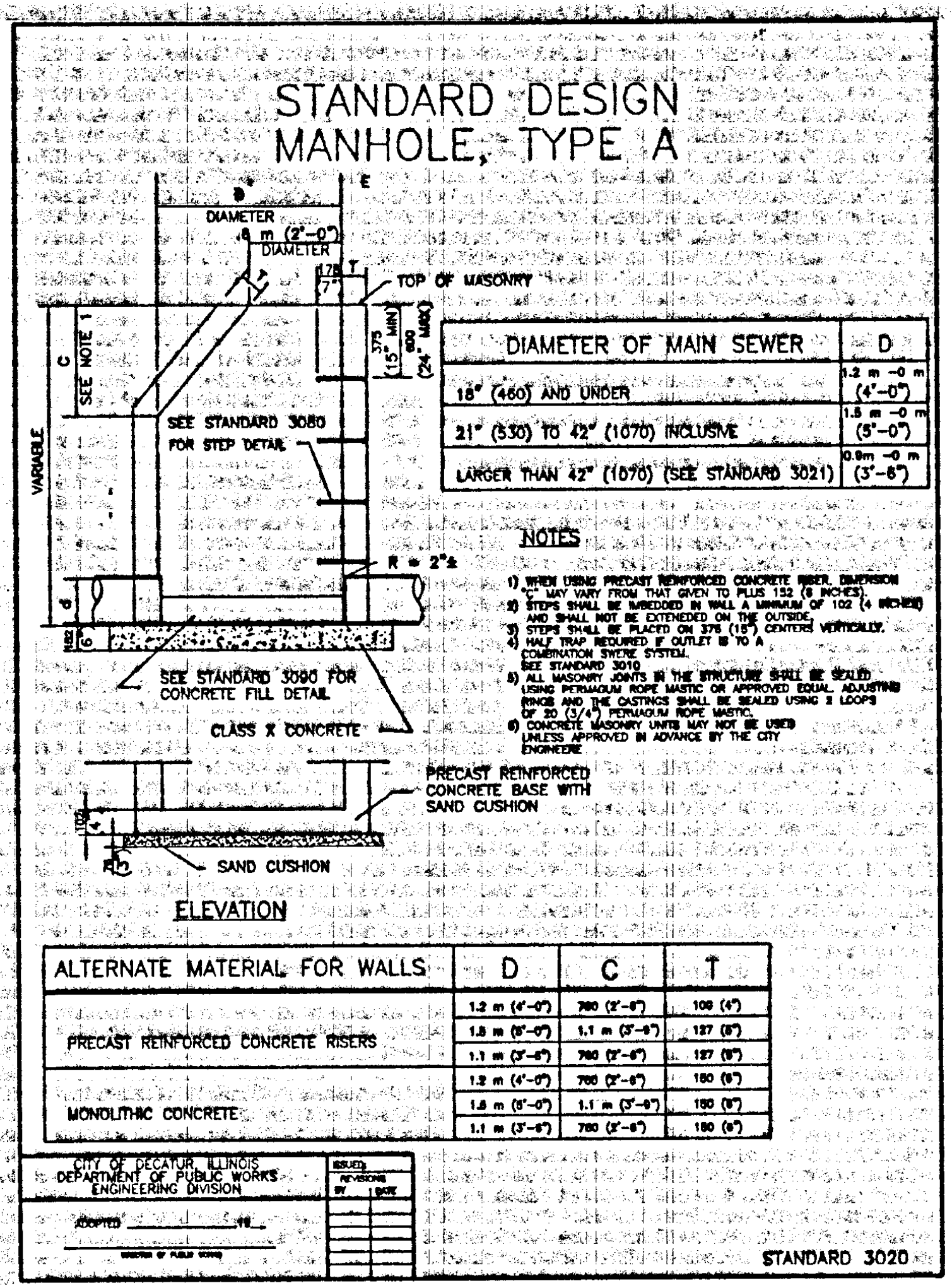
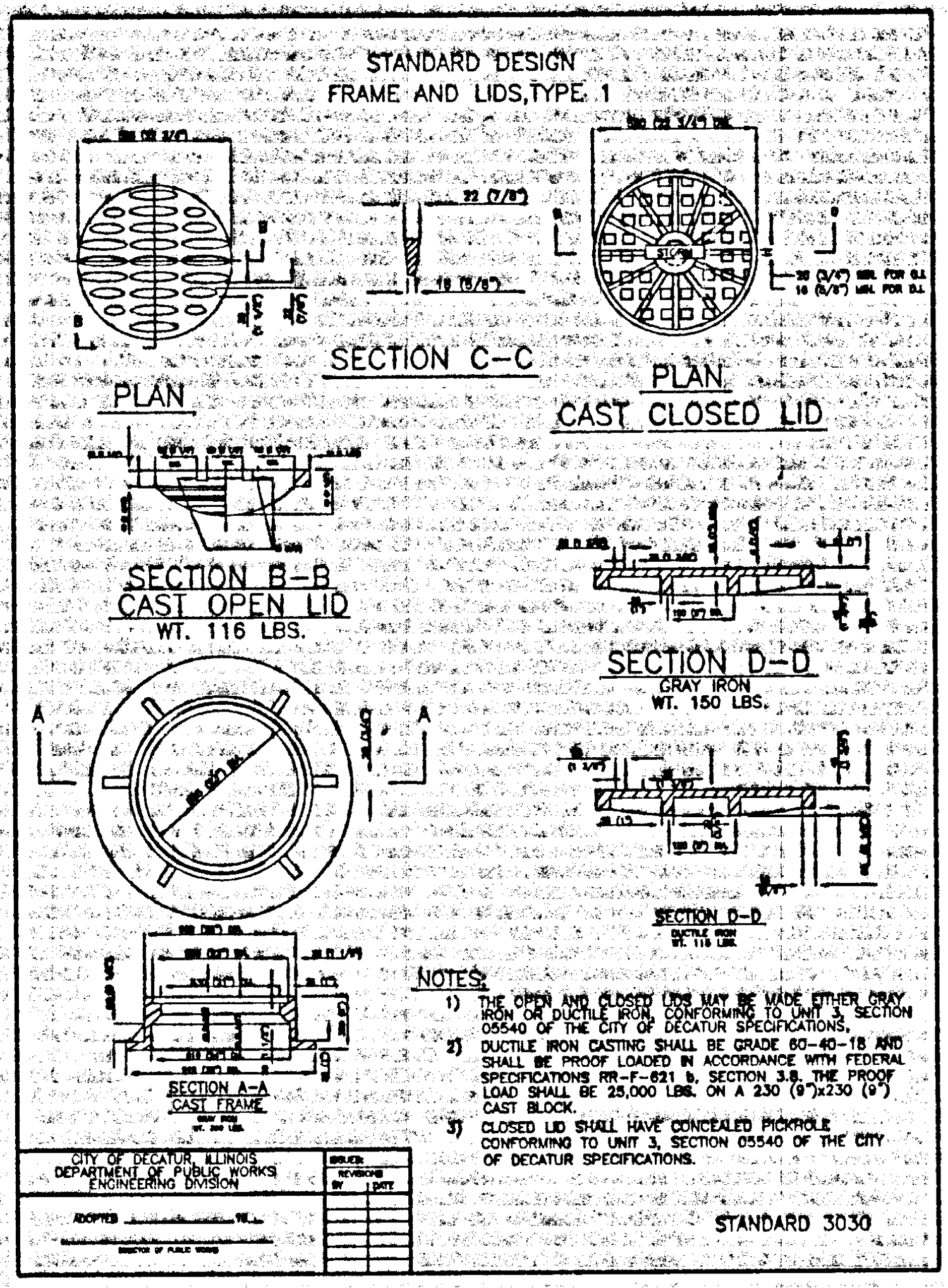
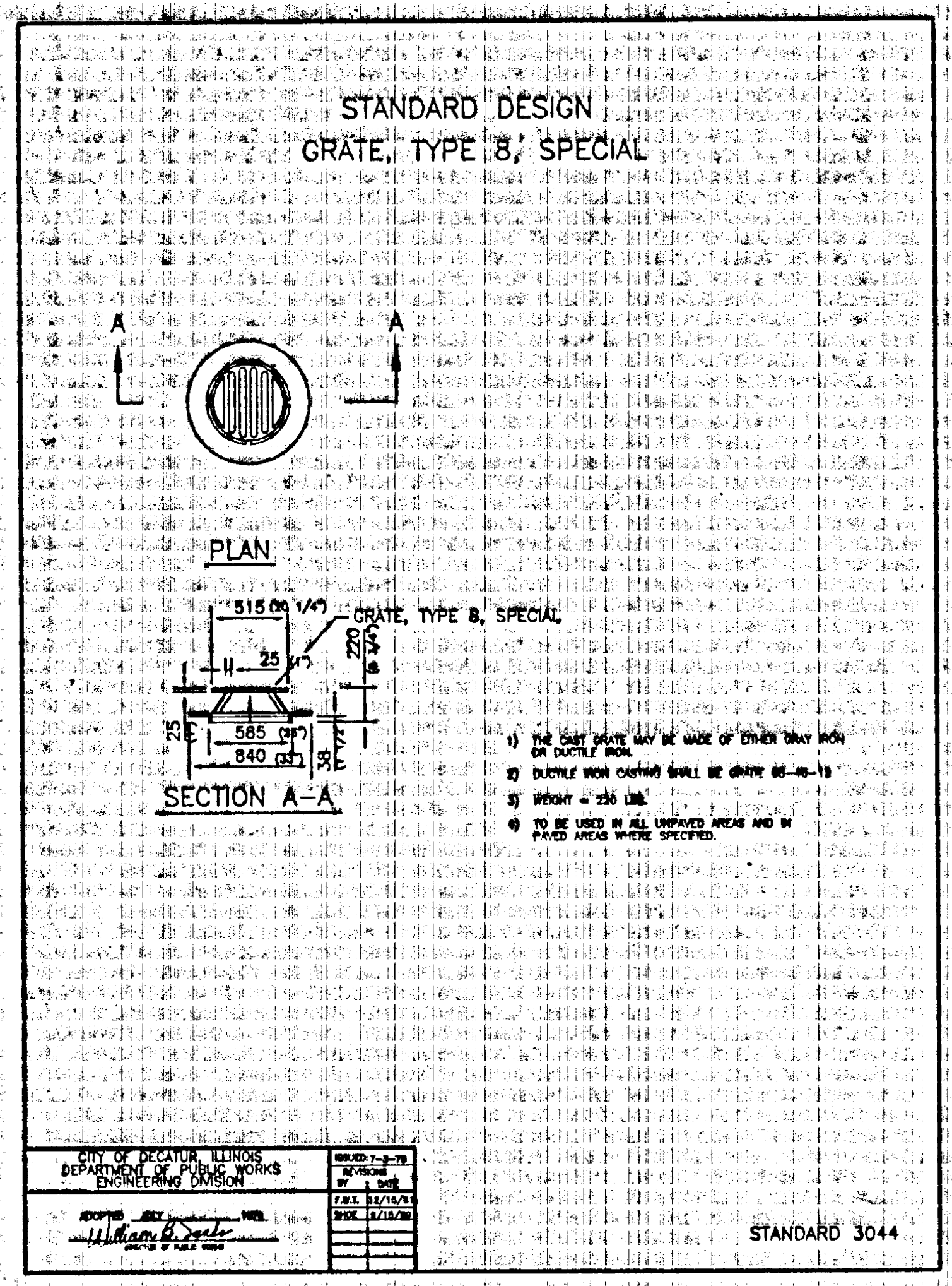
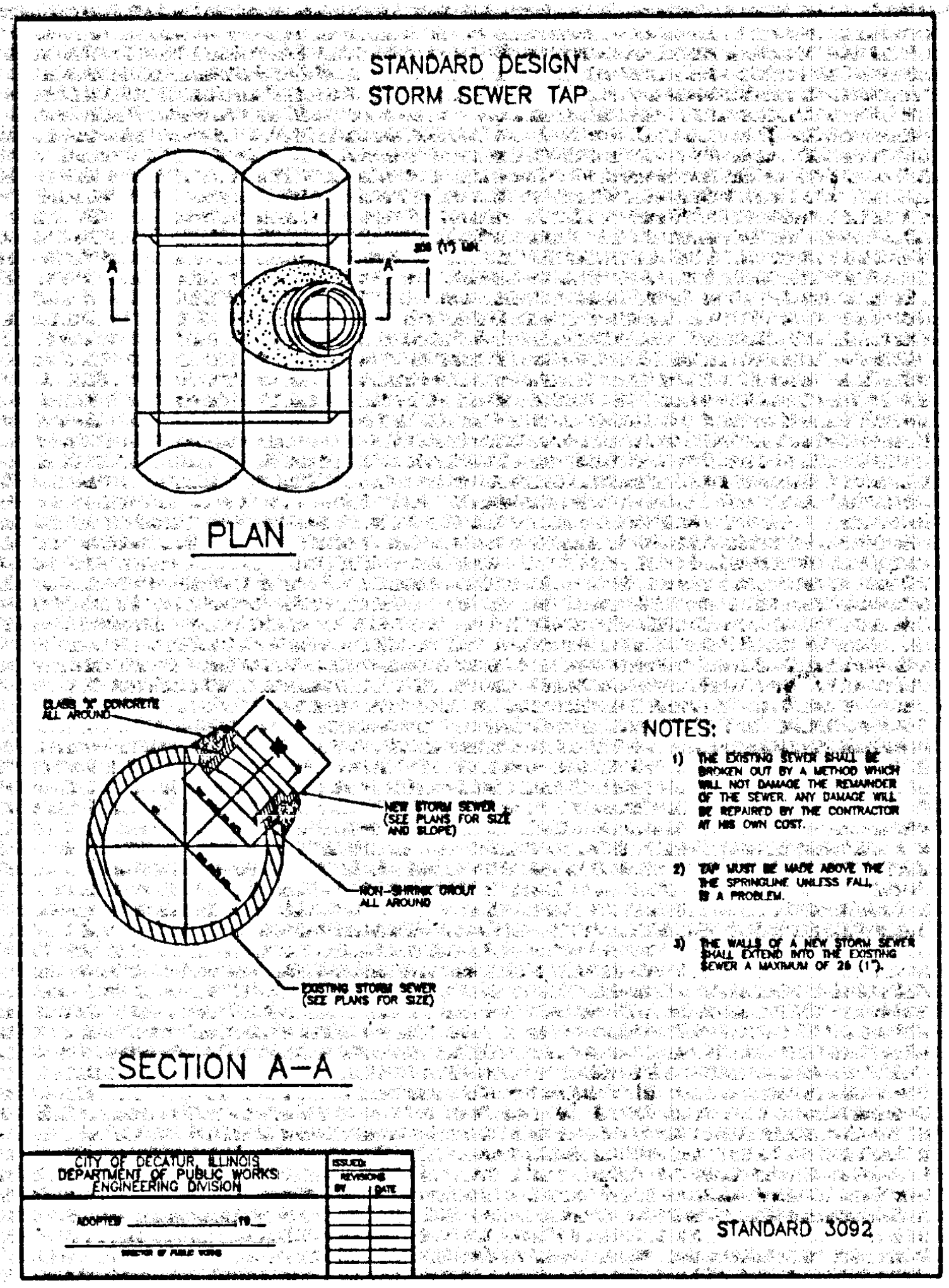
	No.	BY	DATE	DESCRIPTION	
plan by date					field book no. 176
checked by date					sheet no. 8

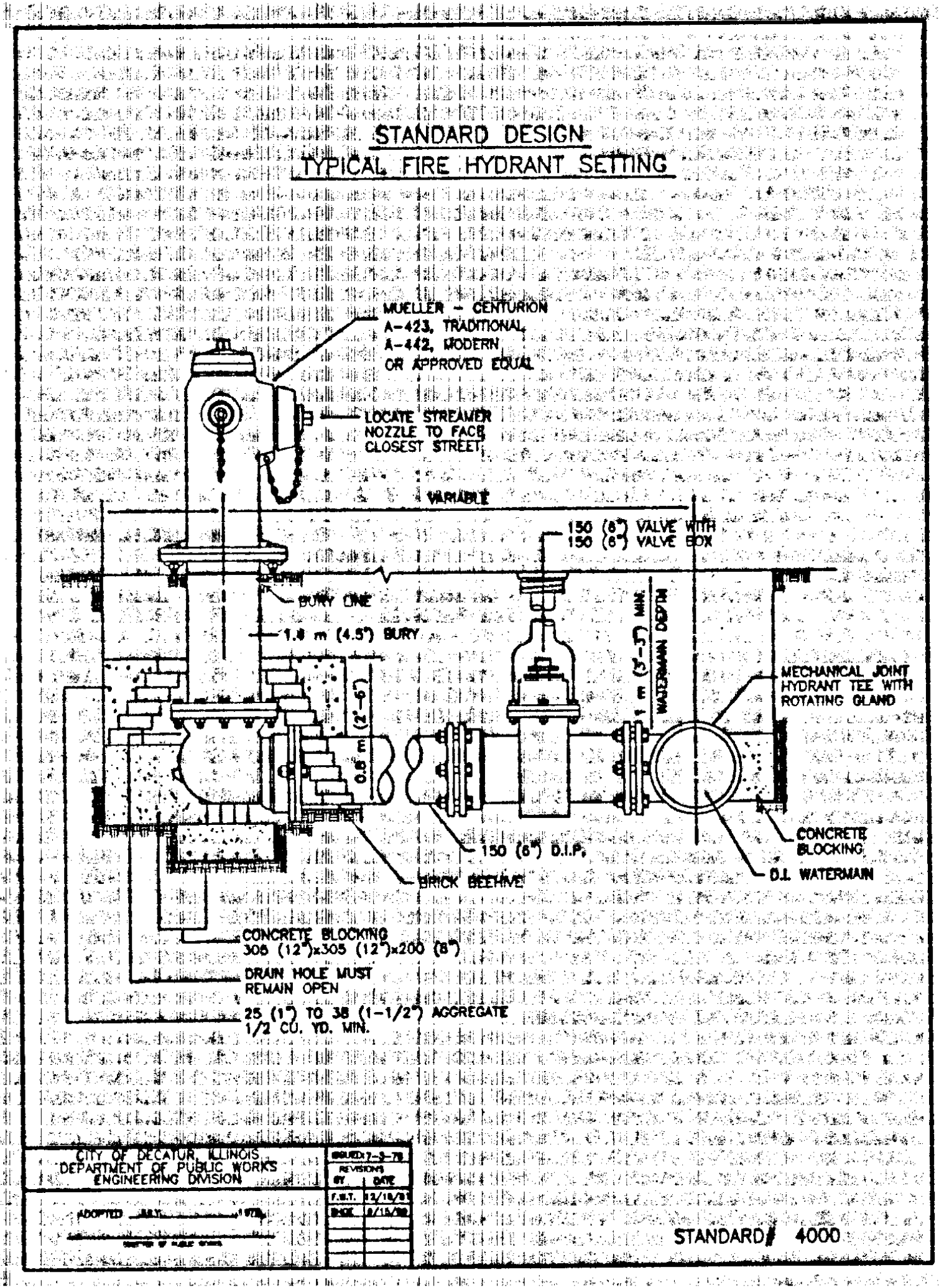


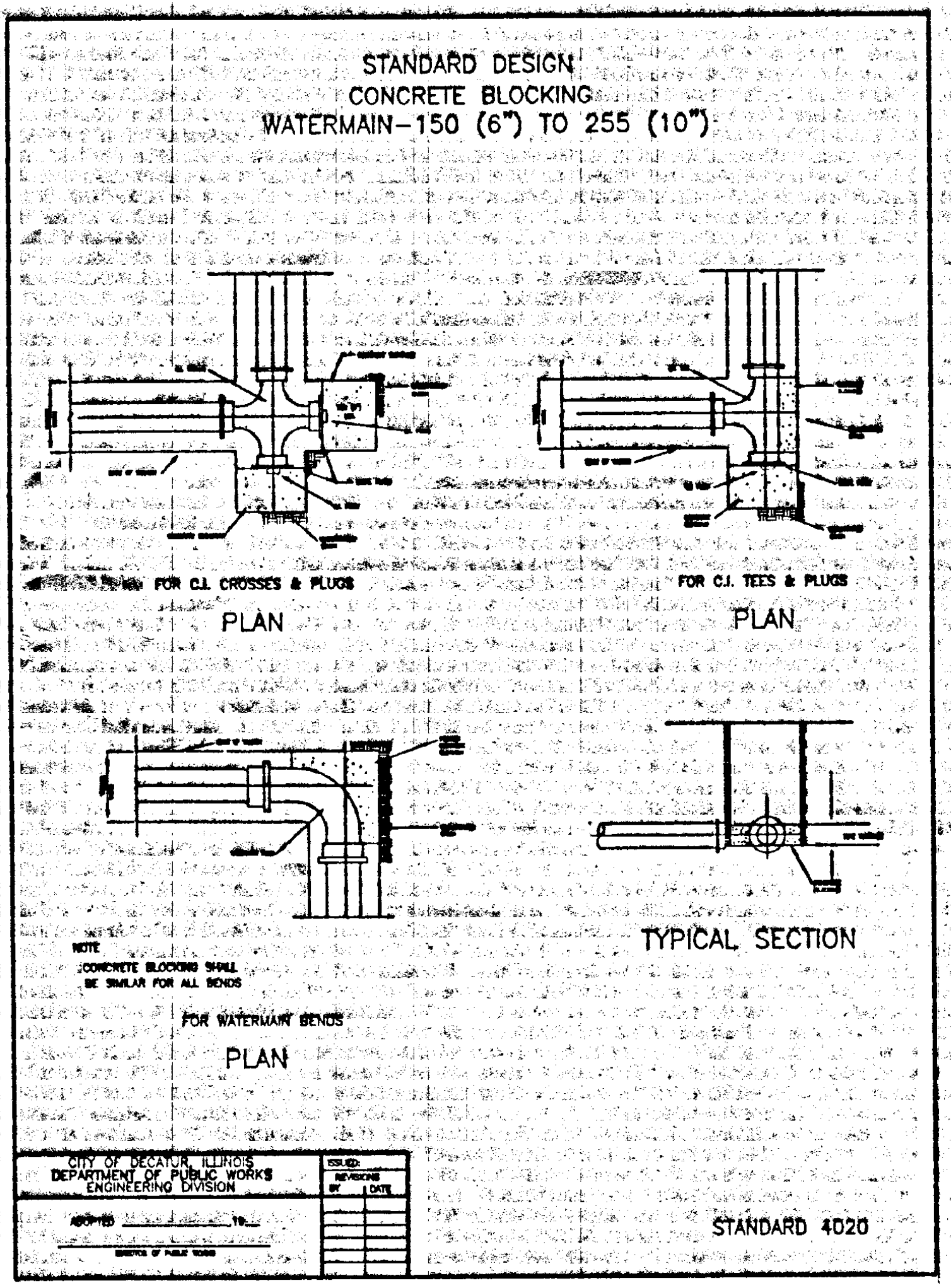


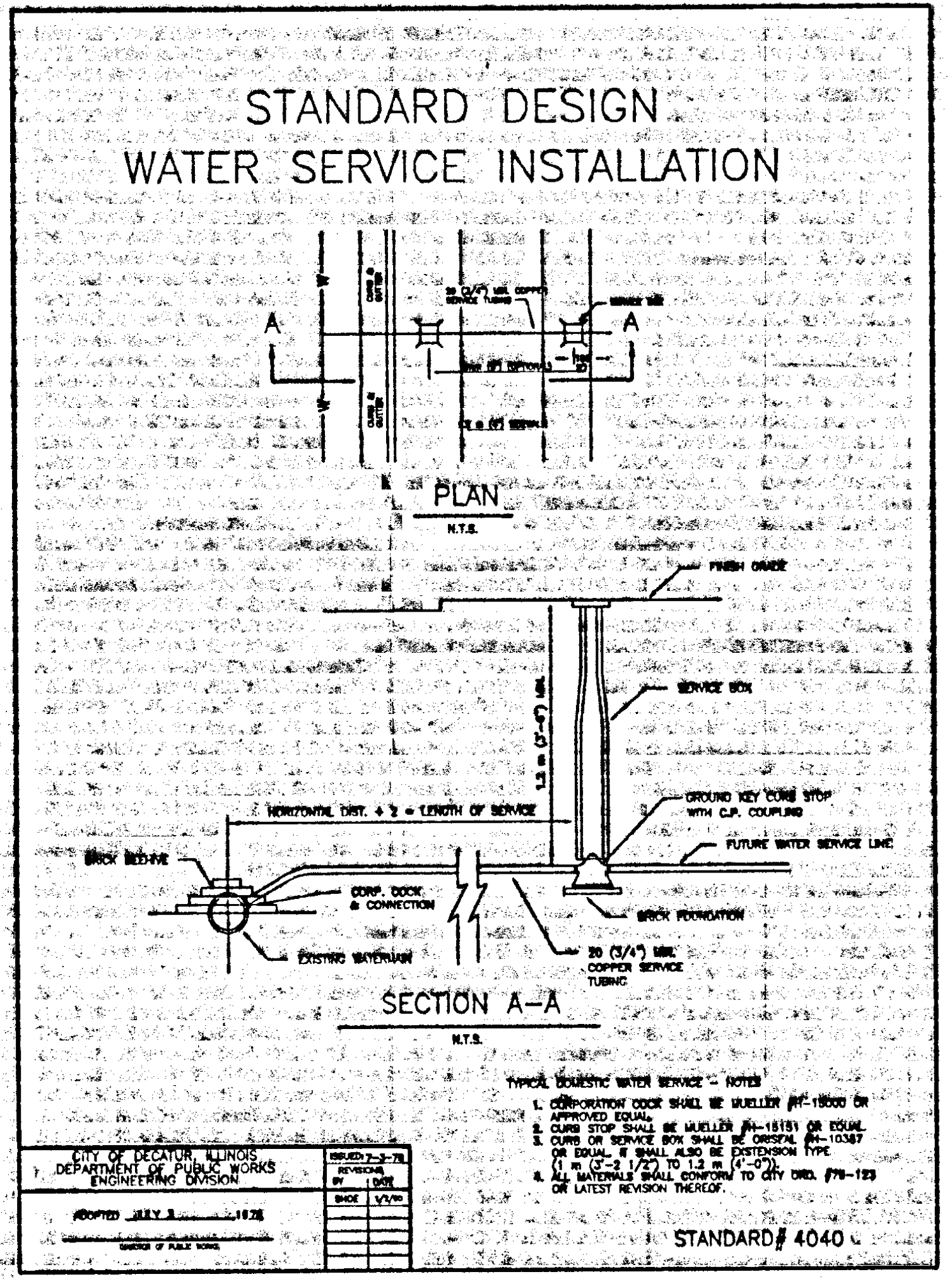


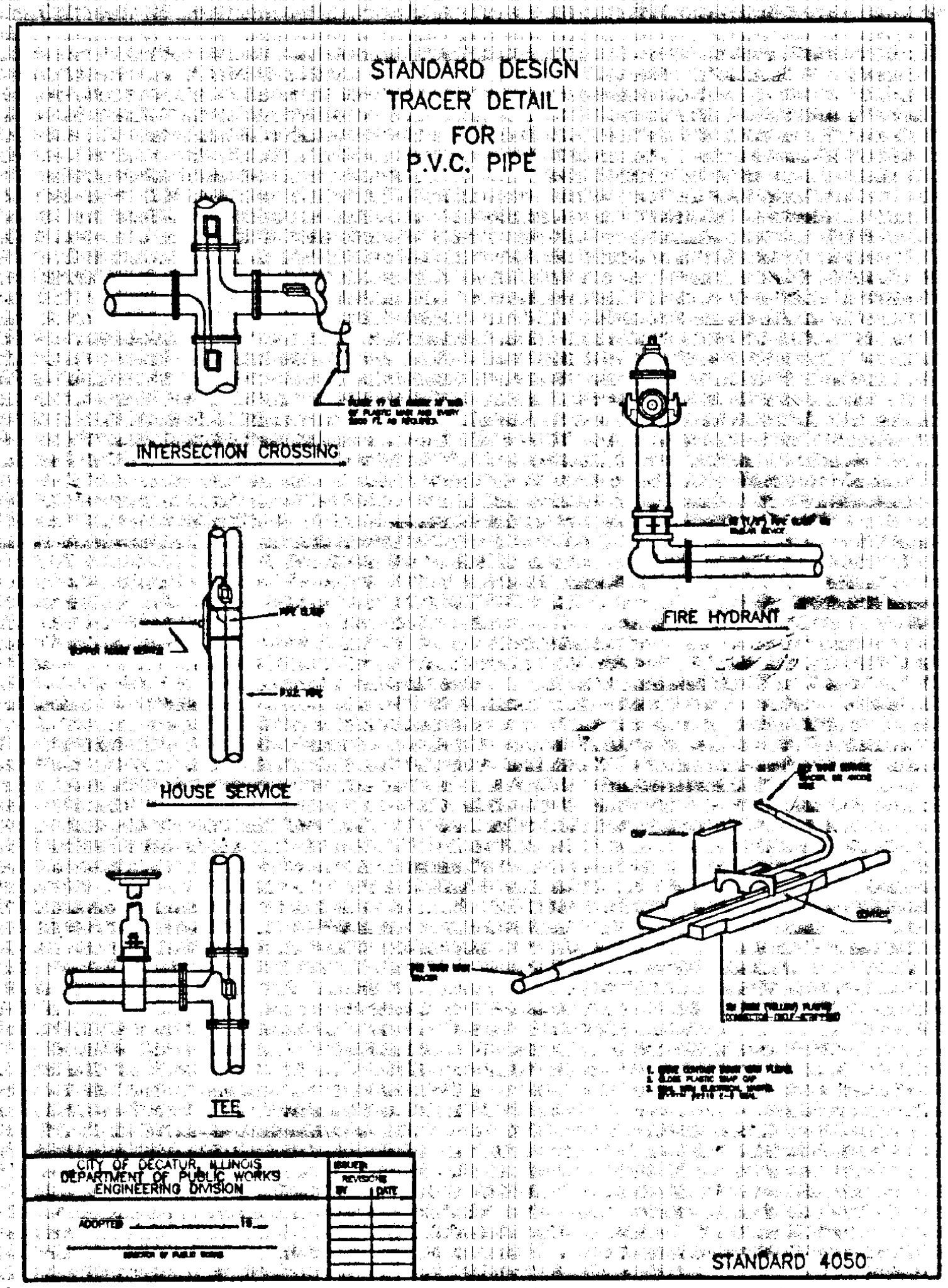








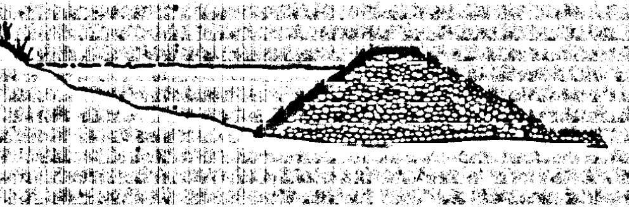




SOIL CONSERVATION SERVICE
CONSERVATION PRACTICE
STANDARD

TEMPORARY SEDIMENT TRAP

(no.)
CODE 960



DEFINITION

A small, temporary ponding basin formed by construction of an embankment or excavated basin.

PURPOSE

The purpose of this practice is to detain sediment-laden runoff from small disturbed areas for a sufficient period of time to allow the majority of sediment and other water-based debris to settle out.

CONDITIONS WHERE PRACTICE APPLIES

1. At the outlets of diversions, channels, slope drains, or other runoff conveyances that discharge sediment-laden water.

2. Below areas that are 5 acres or less.

3. Where access can be maintained for sediment removal and proper disposal.

4. In the approach to a storm water inlet located below a disturbed area as part of an inlet protection system.

5. Structure life should be limited to 18 months.

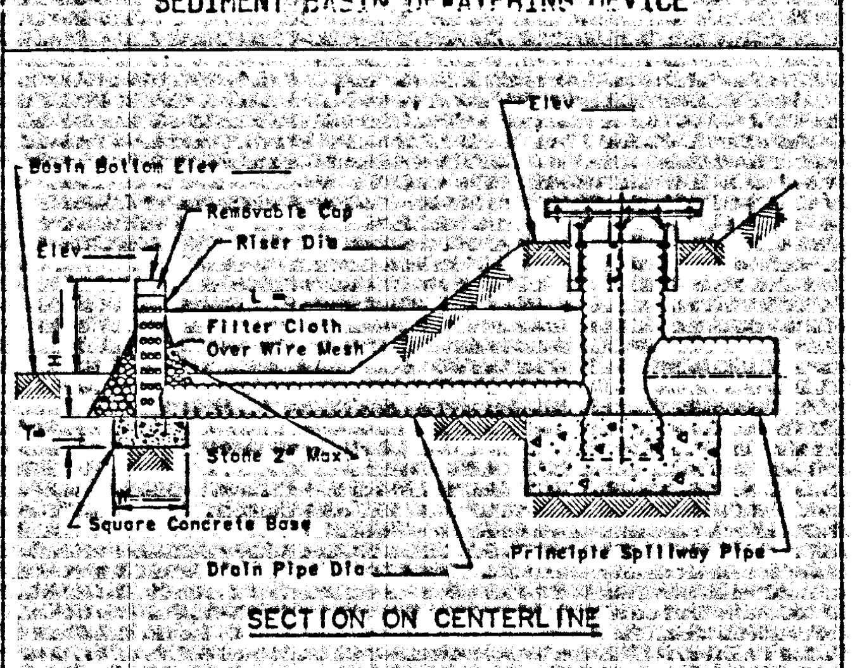
6. Where failure of the structure will not result in loss of life, damage to homes, commercial or industrial buildings, main highways or railroads; or in the use or service of public utilities.

CRITERIA

Storage capacity - Keep the minimum volume of the sediment trap at 134 yd^3 /acre based on area draining into the basin. Measure volume below the crest elevation of the outlet.

Embankment - Ensure that embankments for temporary sediment traps do not exceed 5 feet in height measured at the center line from the original ground surface to the top of the embankment. Additional freeboard may be added to the embankment height to allow flow through a designed bypass location. Construct embankments with a minimum top width of 5 feet and side slopes of 2:1 or flatter. Machine compact embankments according to the requirements in construction specification 23 EARTHFILL.

SEDIMENT BASIN DEWATERING DEVICE



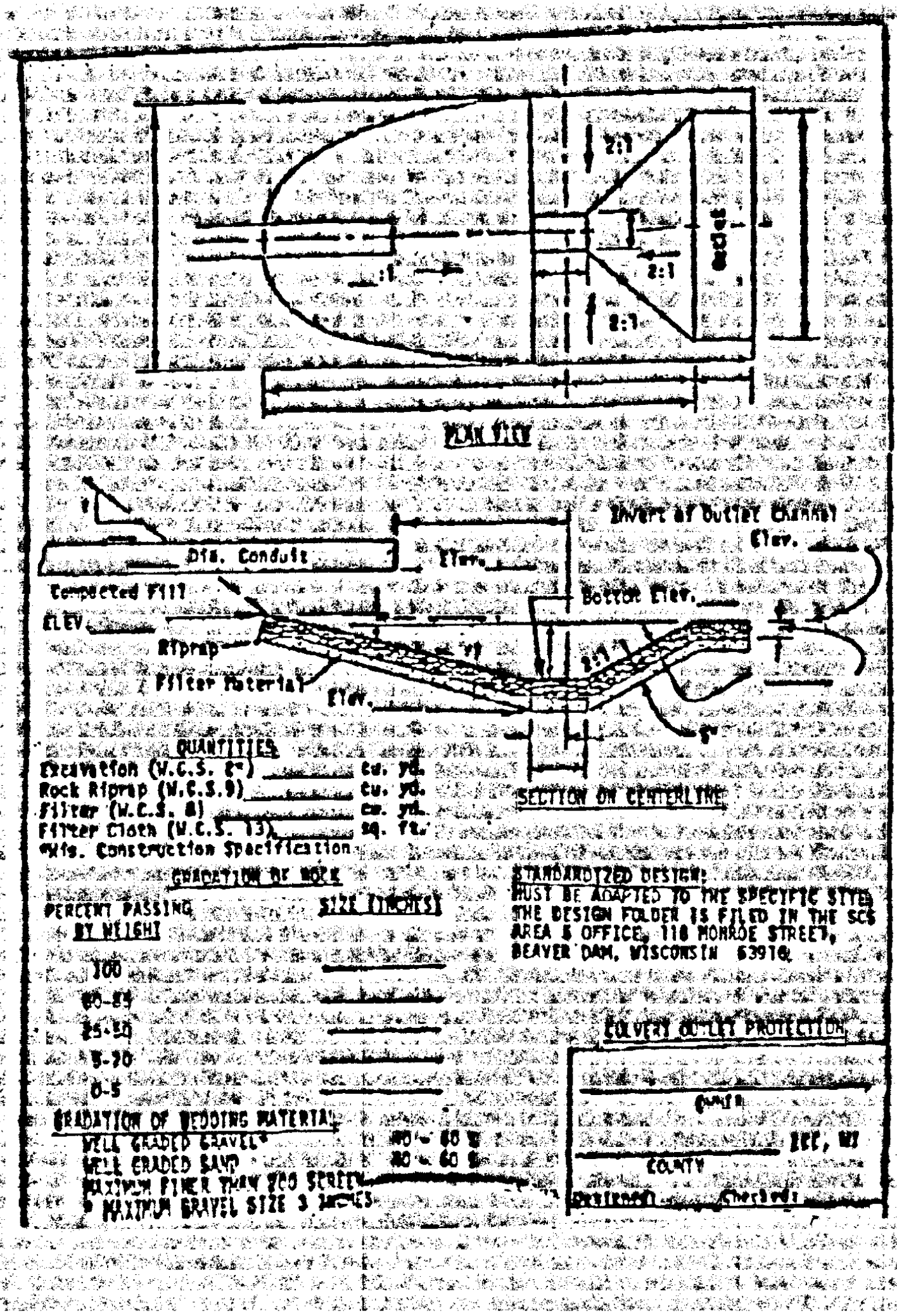
SECTION ON CENTERLINE

NOTES:
1. Slotted inlets shall be fabricated from corrugated metal or smooth steel.
2. Slots shall be cut cleanly and deburred. Ends of slots may be round or square.
3. Gravel filter, if used, shall be pit run sand and neutral gravel with a maximum particle diameter of 2".
4. Fabricated or standard elbow; fabricated or standard tee with the pipe or plug in upstream end; or standard tee with one end embedded in concrete.
5. Thirty 1" diameter holes per foot of riser may be substituted for the 1"x 4" slots for 6" diameter risers.
6. Drain pipe shall be the same material and gauge as the principle spillway pipe.
7. Slot spacing and size shall be as shown on standard drawing IL-580.
8. Coupling bands shall be as shown on standard drawing IL-580.

REFERENCE
Project
Designed ______ Date ______
Checked ______ Date ______
Approved ______ Date ______

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ILLINOIS

STANDARD DWG. NO.
IL-615



STANDARD DETAILS

TIMBERLAKE

phillip w. cochran consulting engineer
2602 north morgan decatur, il 62526
phone (217) 875-3333 fax 875-3371

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checked by date					sheet no. 9