

THE TOWNSHIP AT COLONY PARK, PHASE 2

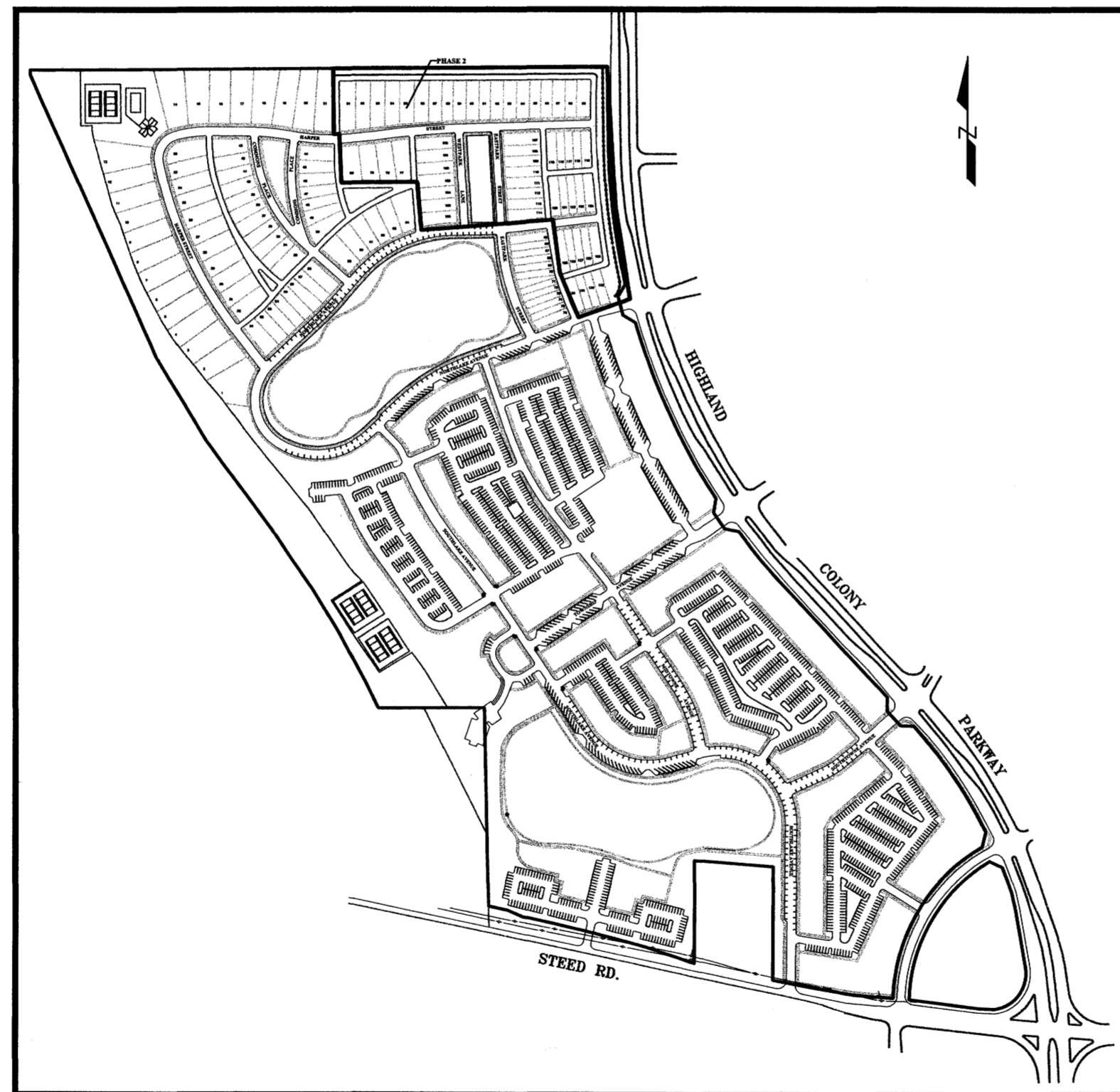
STREET AND SITE UTILITIES RESIDENTIAL

CITY OF RIDGELAND, MS

OWNER:
THE TOWNSHIP LAND CO., LLC

BY:
KERIOTH CORPORATION

PREPARED BY:
DIVERSIFIED CONSULTANTS

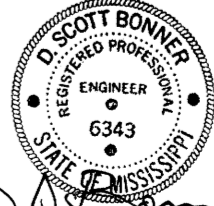


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JULY 2003

DCI DIVERSIFIED CONSULTANTS, INC.
CONSULTING ENGINEERS ... CITY, COUNTY, AND REGIONAL PLANNERS
395 EDGEWOOD TERRACE
JACKSON, MS 39206

**RECORD DRAWING
05-18-2004**


D. Scott Bonner 5/18/2004
D. SCOTT BONNER - ENGINEER
PWP-02031

GENERAL NOTES

CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES (POWER, GAS, WATER, SEWER, TELEPHONE, ETC.) WITH THE APPROPRIATE UTILITY COMPANY BEFORE BEGINNING CONSTRUCTION.

ANY UTILITY LINE OR SERVICE LINE ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE PROTECTED.

THE HORIZONTAL AND VERTICAL CLEARANCES ON ALL UTILITY CROSSINGS SHALL BE VERIFIED BEFORE INSTALLATION.

DAILY CLEANUP OF MATERIALS AND SUPPLIES WILL BE REQUIRED. THE JOB SITE SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION.

THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL BARRICADES AND SIGNS REQUIRED FOR PROPER TRAFFIC CONTROL AS DETAILED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FOR WORK ADJACENT TO HIGHLAND COLONY PARKWAY.

ITEMS SHOWN AS REQ'D BUT NOT INCLUDED AS SPECIFIC ITEMS ON THE BID SCHEDULE SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ROADWAY CURB INLETS SHALL BE PRECAST CONCRETE, OR POURED IN PLACE CONCRETE.

ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET THE REQUIREMENT OF THE CITY OF RIDGELAND, WHEN SPECIFIC REQUIREMENTS EXIST.

CLEARING AND GRUBBING FOR THIS CONTRACT IS AREA BOUNDED BY THE CONSTRUCTION LIMITS OF THE STREET CONSTRUCTION AS SHOWN BY THE TIE LIMITS ON THE CROSS-SECTION PLANS.

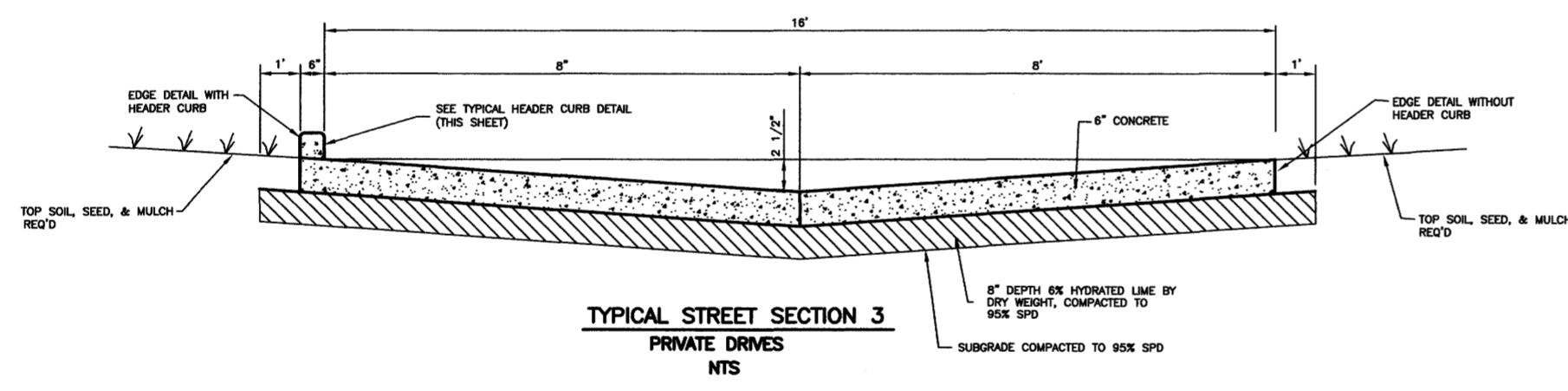
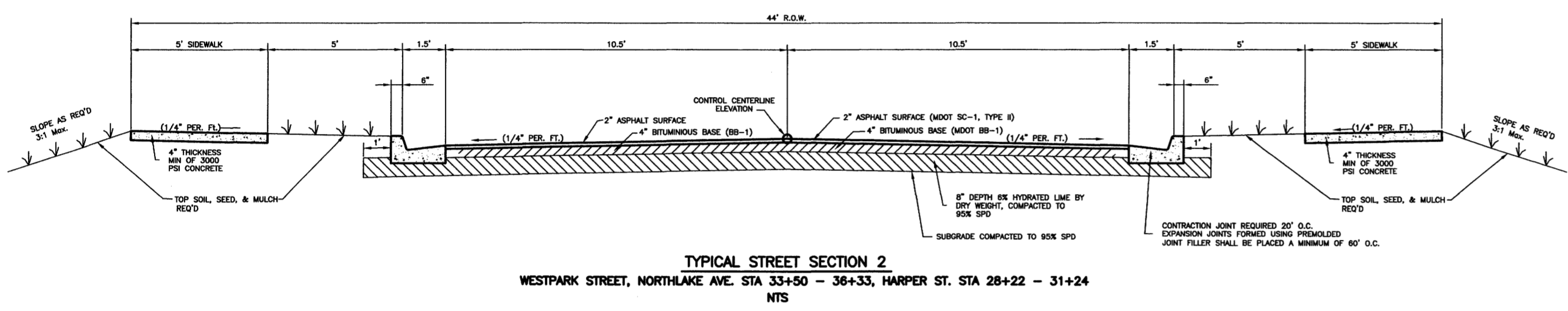
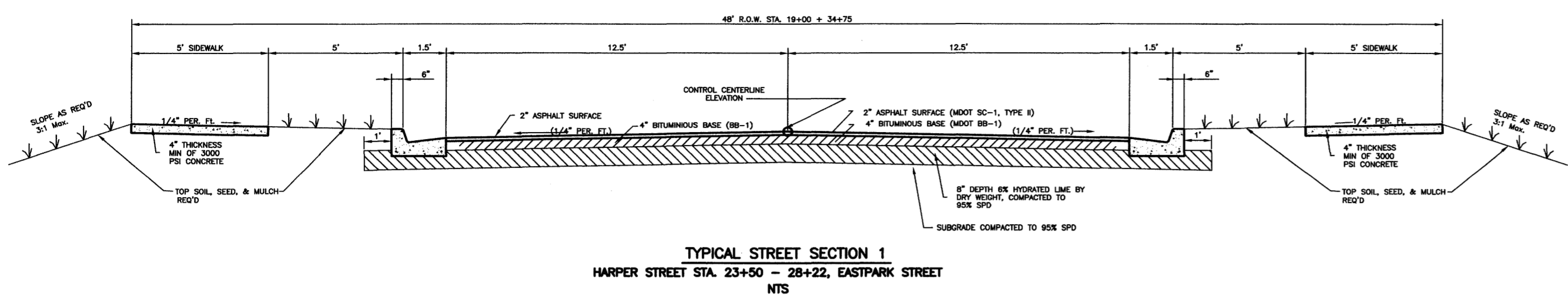
CONTRACTOR SHALL CONSTRUCT STREET PAVING, CURB & GUTTER, CROSSWALKS & SIDEWALKS DETAILS IN ACCORDANCE WITH STREET LAYOUT SHEET #3. FOR SPECIFIC REFERENCE OF ADDITIONAL STREET SECTIONS, SEE CITY OF RIDGELAND THE TOWNSHIP AT COLONY PARK OVERLAY DISTRICT ORDINANCE.

OVERLAY DISTRICT ORDINANCE STREET SECTION:

STREET SECTION A
STREET SECTION B
STREET SECTION C
STREET SECTION D
STREET SECTION E
STREET SECTION F
STREET SECTION G
STREET SECTION H
STREET SECTION I
STREET SECTION J
STREET SECTION K
STREET SECTION L
STREET SECTION M
STREET SECTION N
STREET SECTION O

TYPICAL STREET SECTION:

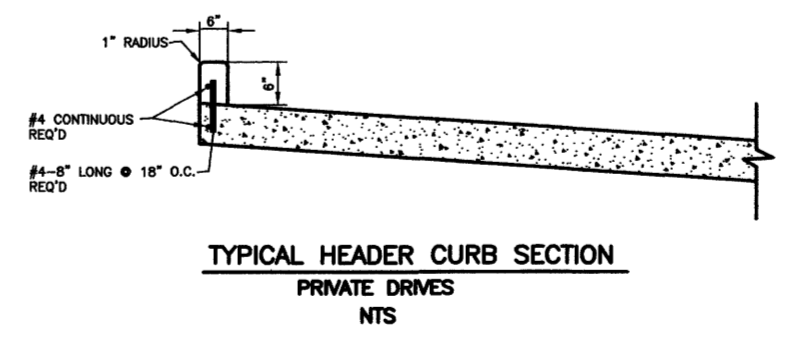
N/A
N/A
N/A
N/A
N/A
TYPICAL STREET SECTION 2
N/A
TYPICAL STREET SECTION 1 & 2
N/A
TYPICAL STREET SECTION 3
N/A
N/A
N/A
N/A



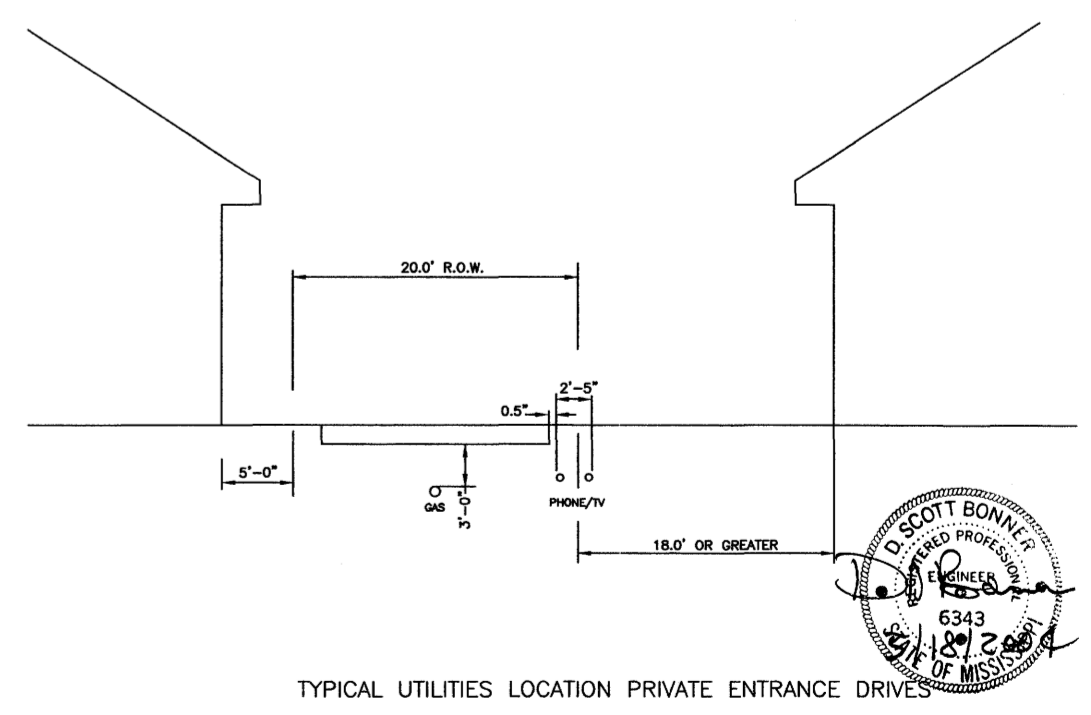
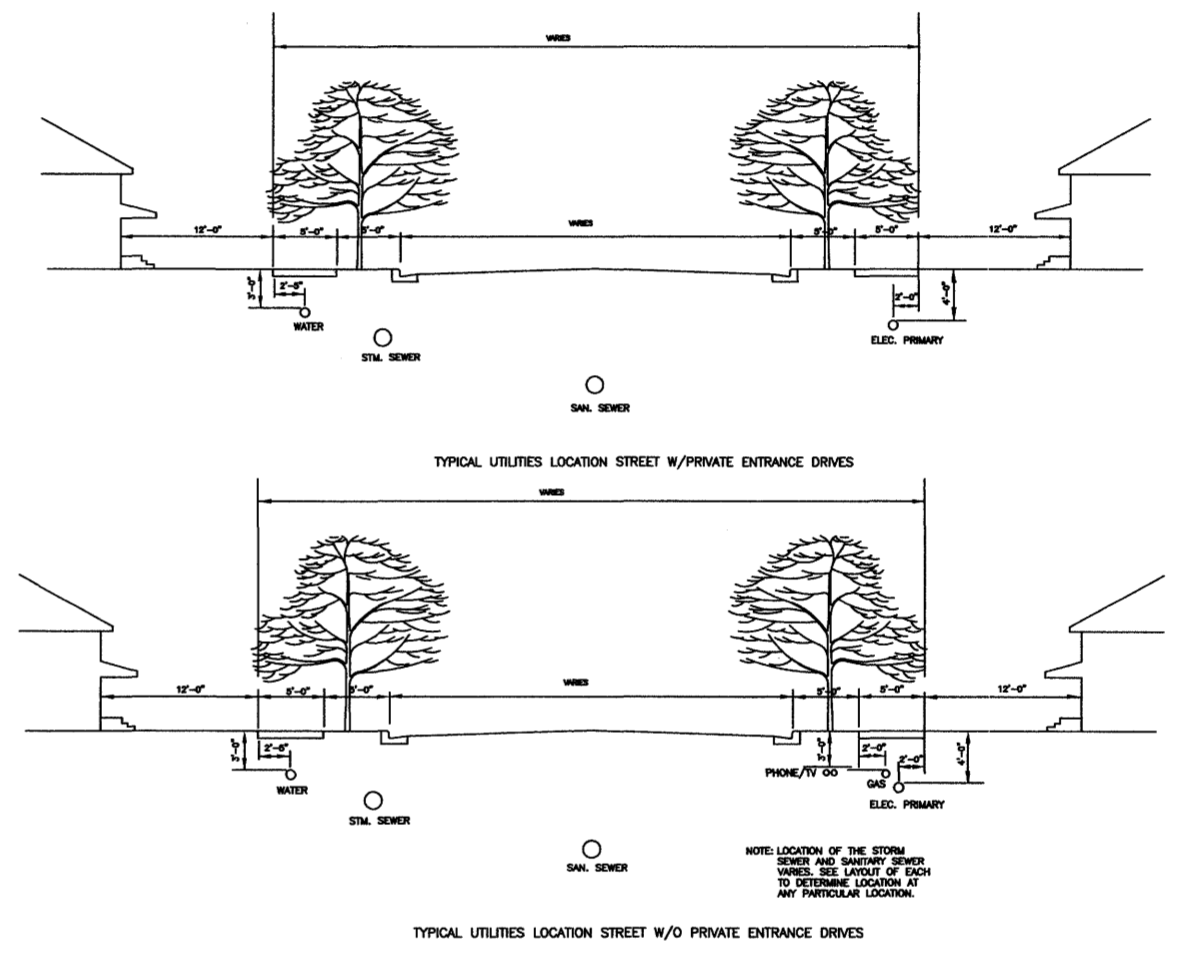
HEADER CURB (ONLY AT STATION LISTED BELOW)

- PRIVATE DRIVE 5 STA 13+50 - 14+78
- PRIVATE DRIVE 6 STA 16+40 - 17+55
- PRIVATE DRIVE 8 STA 15+92 - 17+27

- NOTES:**
- ALL TYPICAL SECTION STATION LIMITS ARE FOR GENERAL INFORMATION AND REPRESENT APPROXIMATE MID-POINTS OR BEGINNING OF THE TRANSITION. SEE SHEET NO.3, STREET LAYOUT FOR ADDITIONAL INFORMATION ON TRANSITIONS.
 - WHEN REQ'D., HEADER CURB SHALL BE PLACED ON BOTH SIDES OF PRIVATE DRIVE.
 - SEE SHEET NO.17, CONCRETE PAVING AND SIDEWALK DETAILS FOR CONSTRUCTION DETAILS, CURB TRANSITIONING AND JOINTING REQUIREMENTS.



TRANSITION TOP OF CURB FOR 4 FEET HORIZONTALLY FROM ADJACENT PRIVATE DRIVE AND/OR SIDEWALK ELEVATION TO BEGIN OR END CURB SECTION.



RECORD DRAWING
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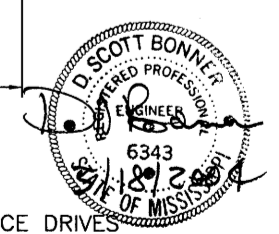
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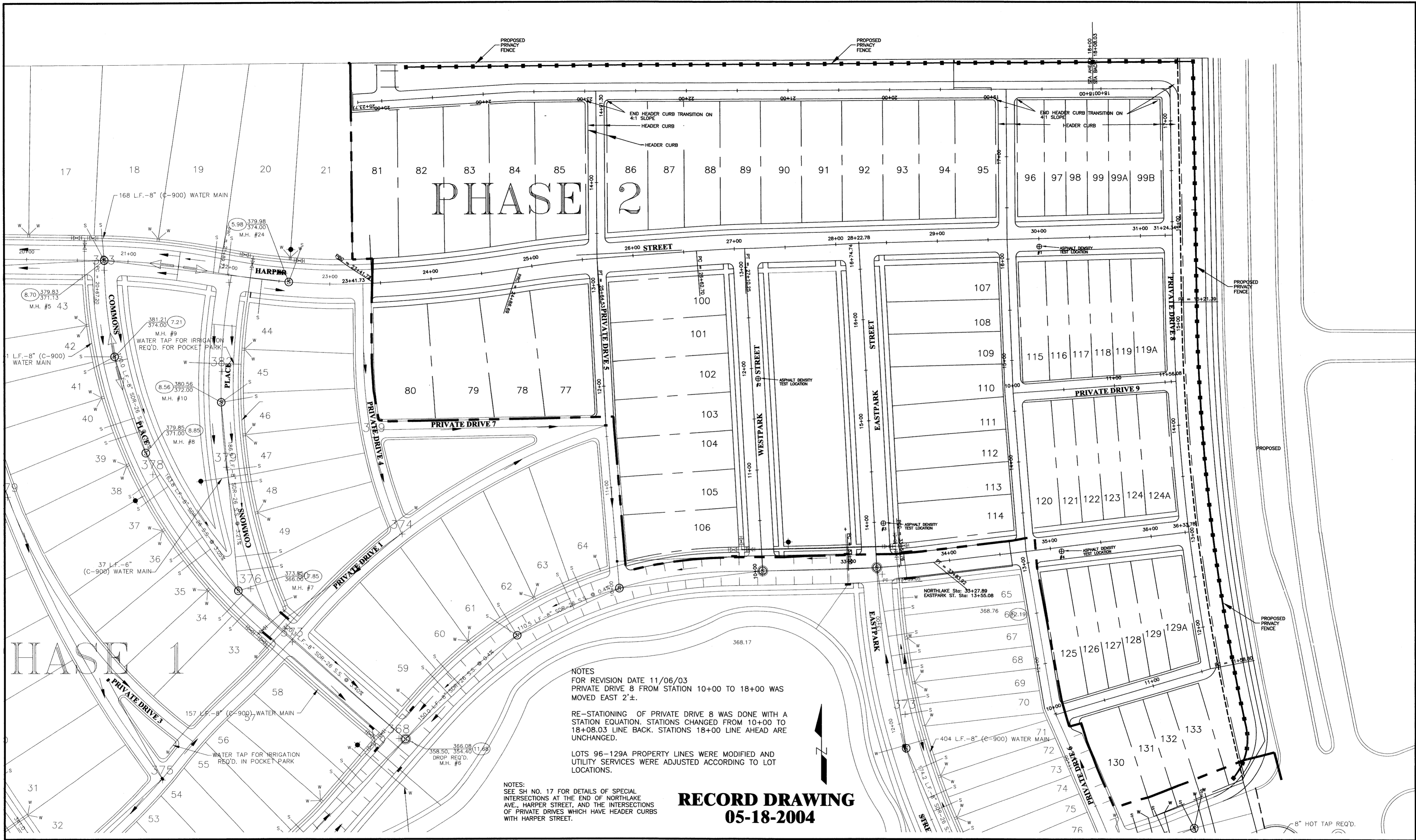
THE TOWNSHIP AT COLONY PARK, PHASE 2
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1		
2		
3		
4		
5		
6		

SCALE	NO SCALE
DATE	
APPROVED BY	D.S.B.
DRAWN BY	A.U.J.
CHECKED BY	D.S.B.
TRACED BY	

SHEET TITLE	
GENERAL NOTES, AND TYPICAL SECTIONS DETAILS	
FILE NAME	SHEET NO. 2





NOTES
 FOR REVISION DATE 11/06/03
 PRIVATE DRIVE 8 FROM STATION 10+00 TO 18+00 WAS
 MOVED EAST 2'±.

RE-STATIONING OF PRIVATE DRIVE 8 WAS DONE WITH A
 STATION EQUATION. STATIONS CHANGED FROM 10+00 TO
 18+08.03 LINE BACK. STATIONS 18+00 LINE AHEAD ARE
 UNCHANGED.

LOTS 96-129A PROPERTY LINES WERE MODIFIED AND
 UTILITY SERVICES WERE ADJUSTED ACCORDING TO LOT
 LOCATIONS.

NOTES:
 SEE SH NO. 17 FOR DETAILS OF SPECIAL
 INTERSECTIONS AT THE END OF NORTHLAKE
 AVE., HARPER STREET, AND THE INTERSECTIONS
 OF PRIVATE DRIVES WHICH HAVE HEADER CURBS
 WITH HARPER STREET.

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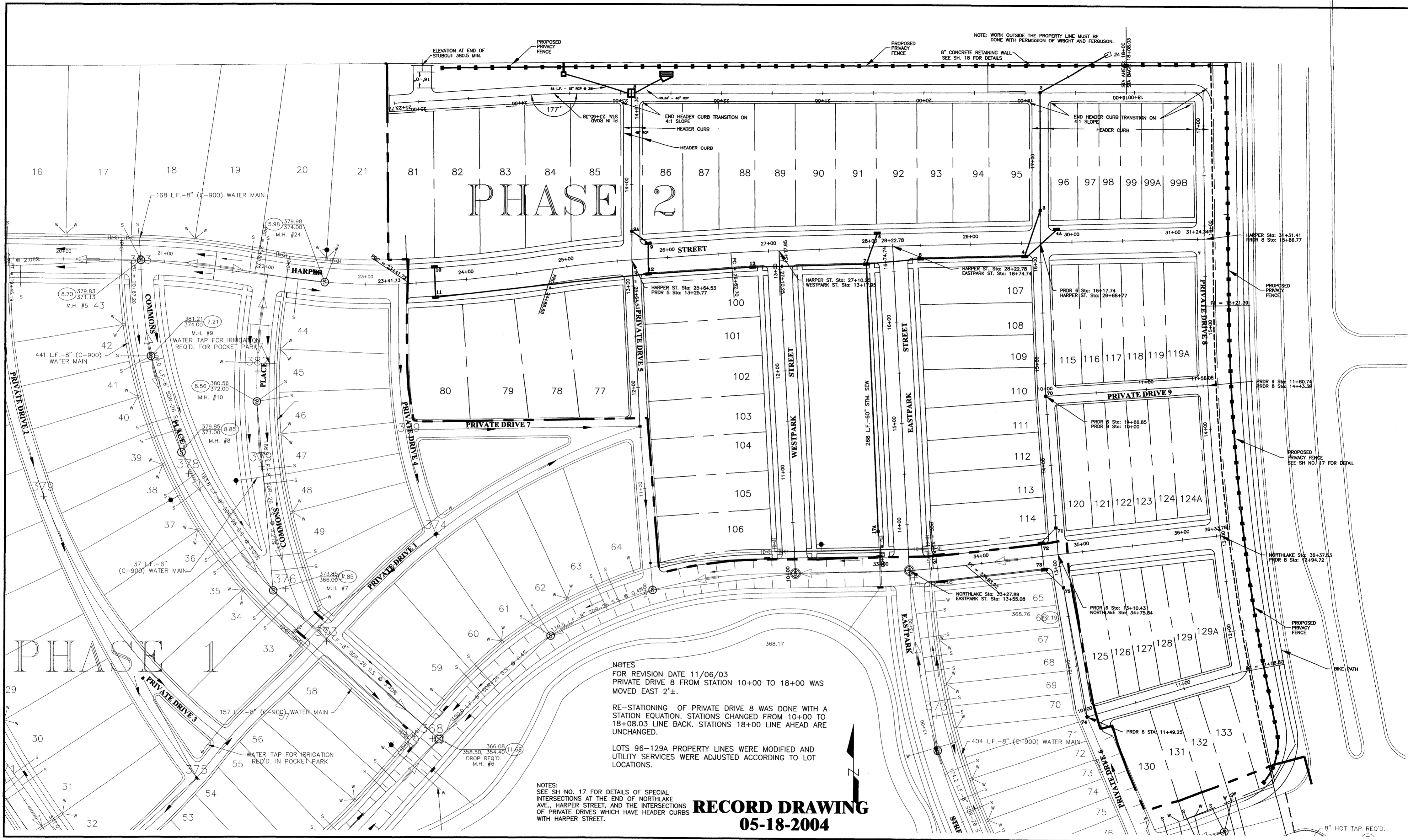
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**THE TOWNSHIP AT COLONY PARK, PHASE 2
 RIDGELAND, MISSISSIPPI**

REVISIONS			
NO.	DATE	BY	
1	8/21/03	J.H.G.	
2	11/06/03	A.U.J.	
3			
4			
5			
6			

SCALE
SCALE: 1" = 40'
 DATE
 APPROVED BY **DSB**
 DRAWN BY **AUJ**
 CHECKED BY **DSB**

SHEET TITLE
STREET LAYOUT
 FILE NAME
 SHEET NO. **3**



NOTES
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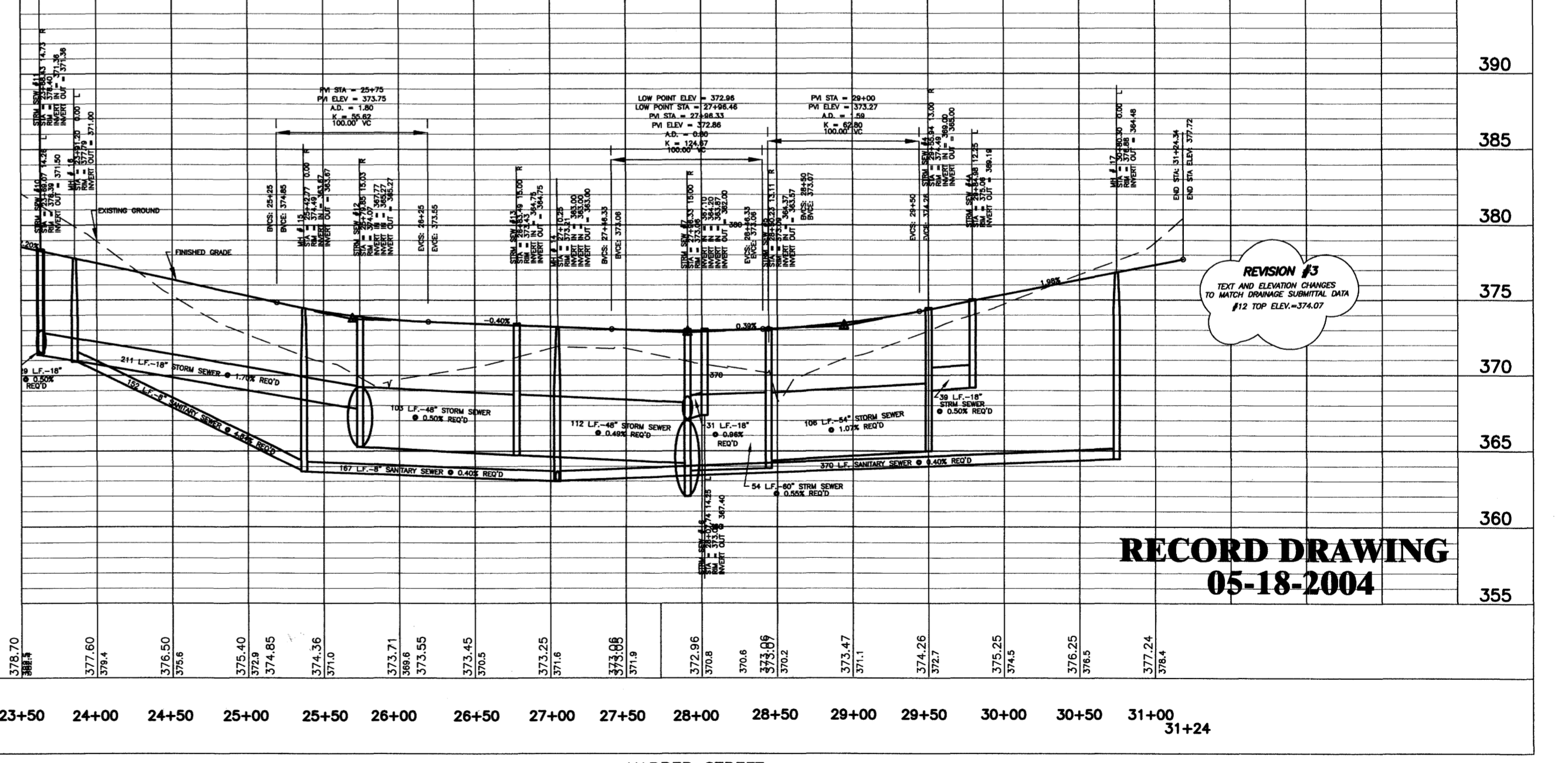
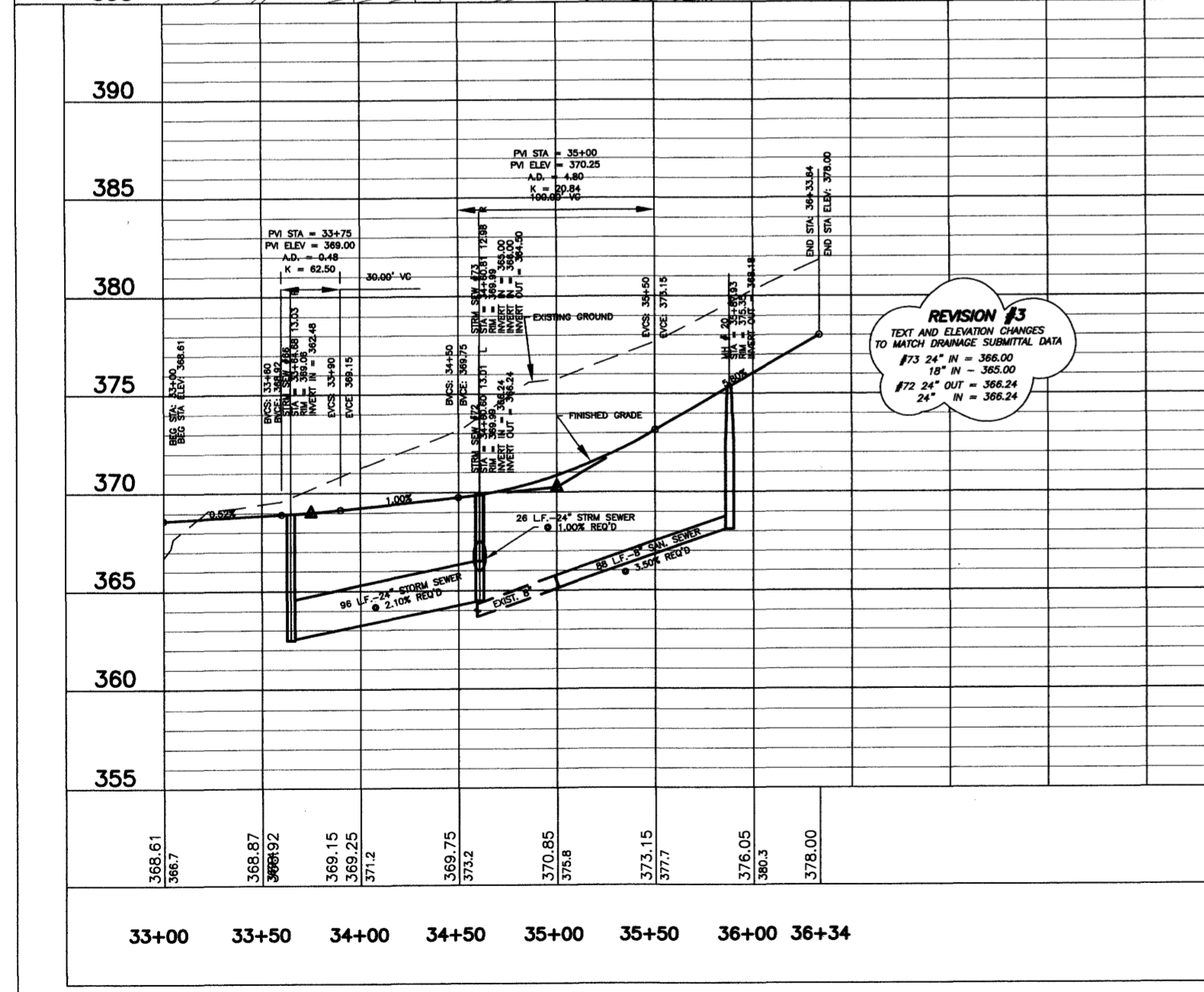
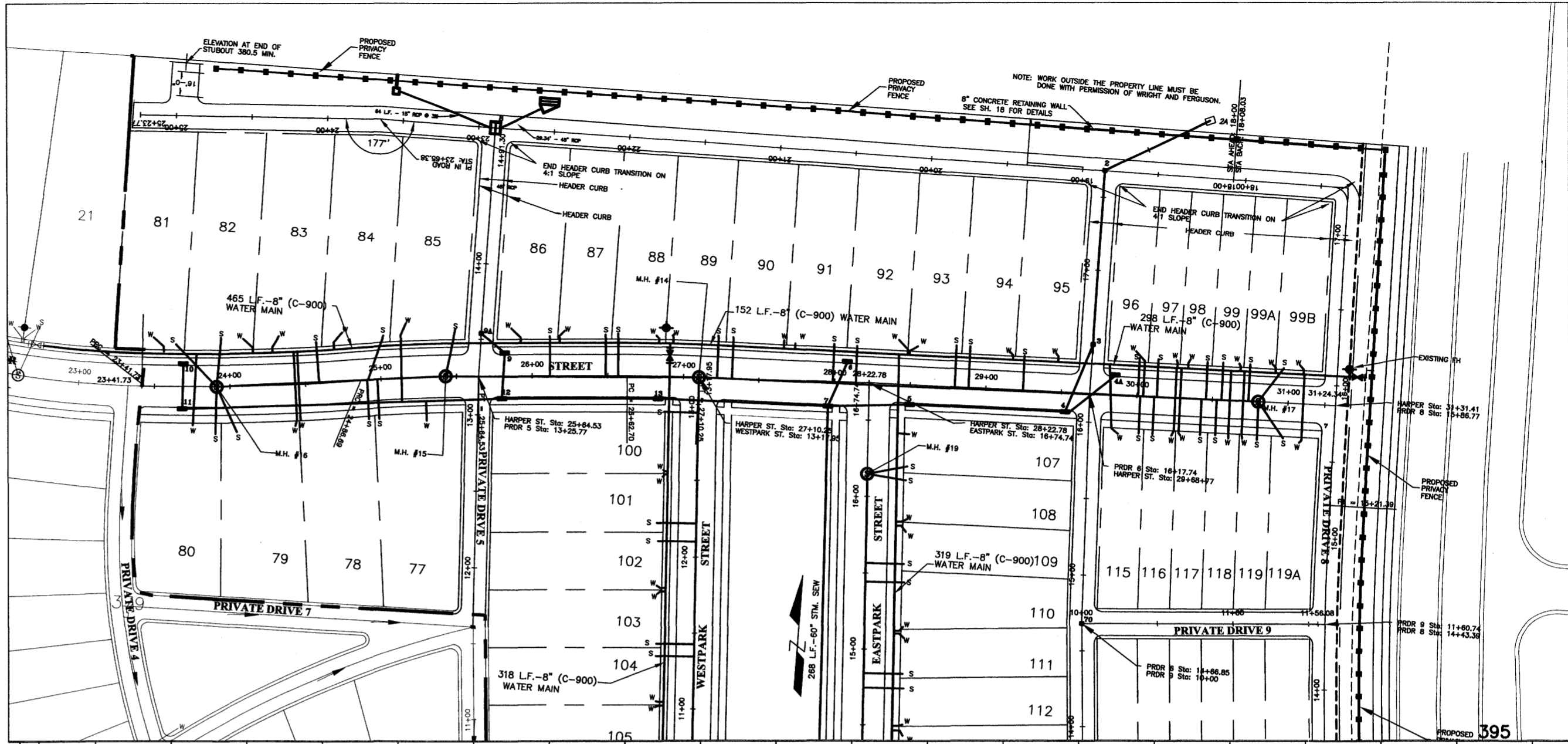
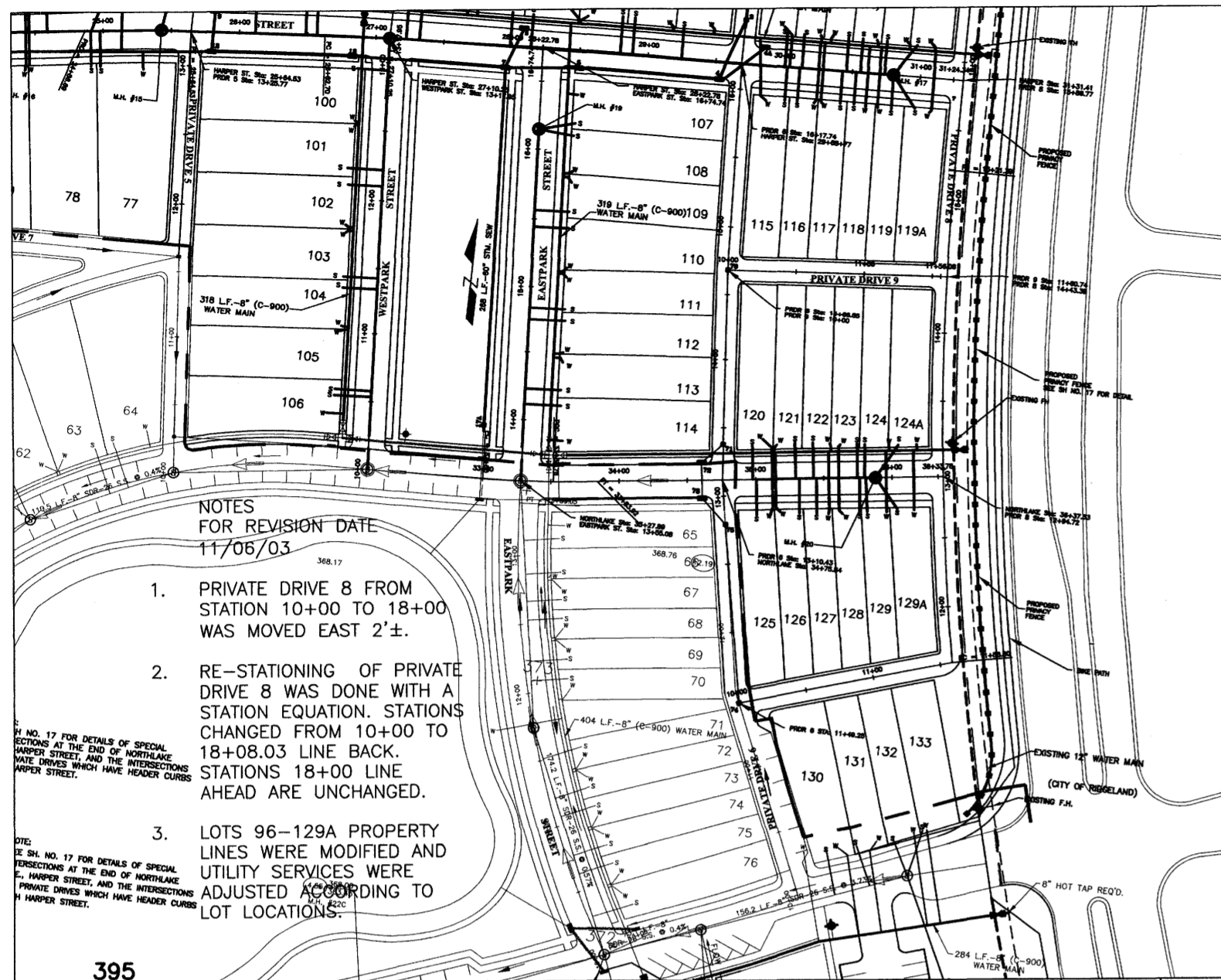
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1	8/21/03	J.B.G.
2	11/06/03	AUJ
3		
4		
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6		

SCALE: 1" = 40'
 DATE
 APPROVED BY: **DSB**
 DRAWN BY: **AUJ**
 CHECKED BY: **DSB**

SHEET TITLE
**STORM SEWER
 LAYOUT**
 FILE NAME
 SHEET NO. **4**



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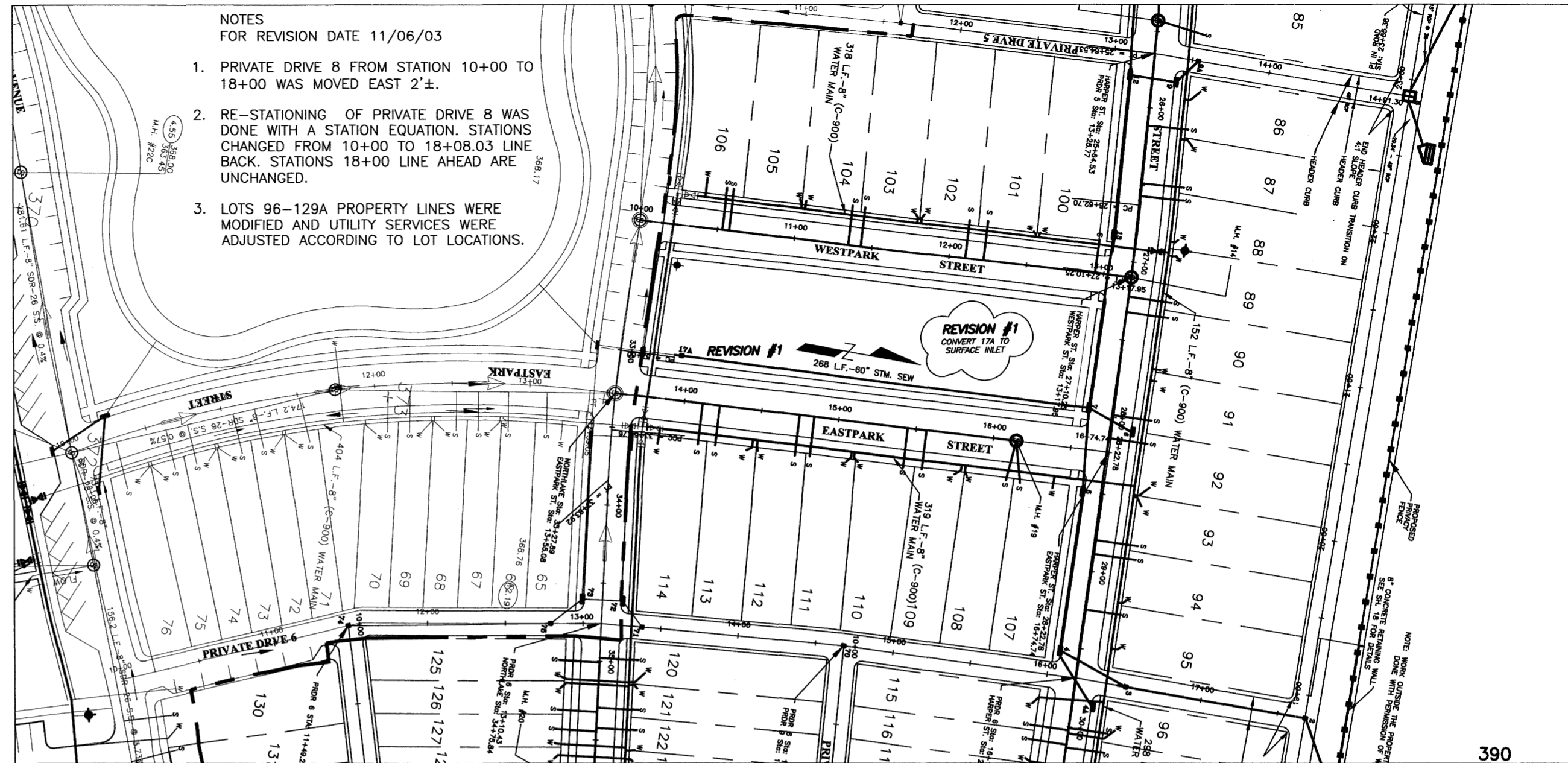
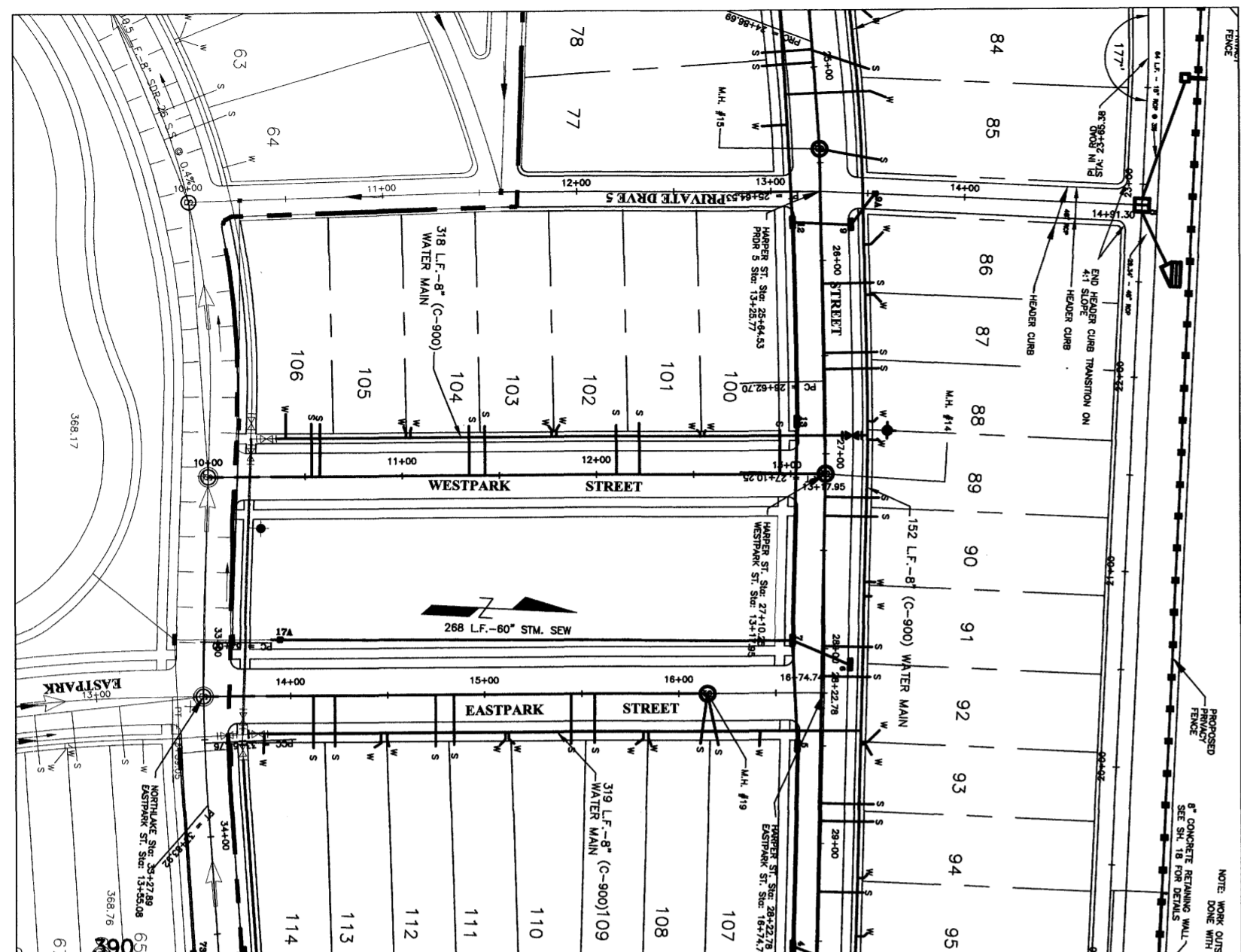
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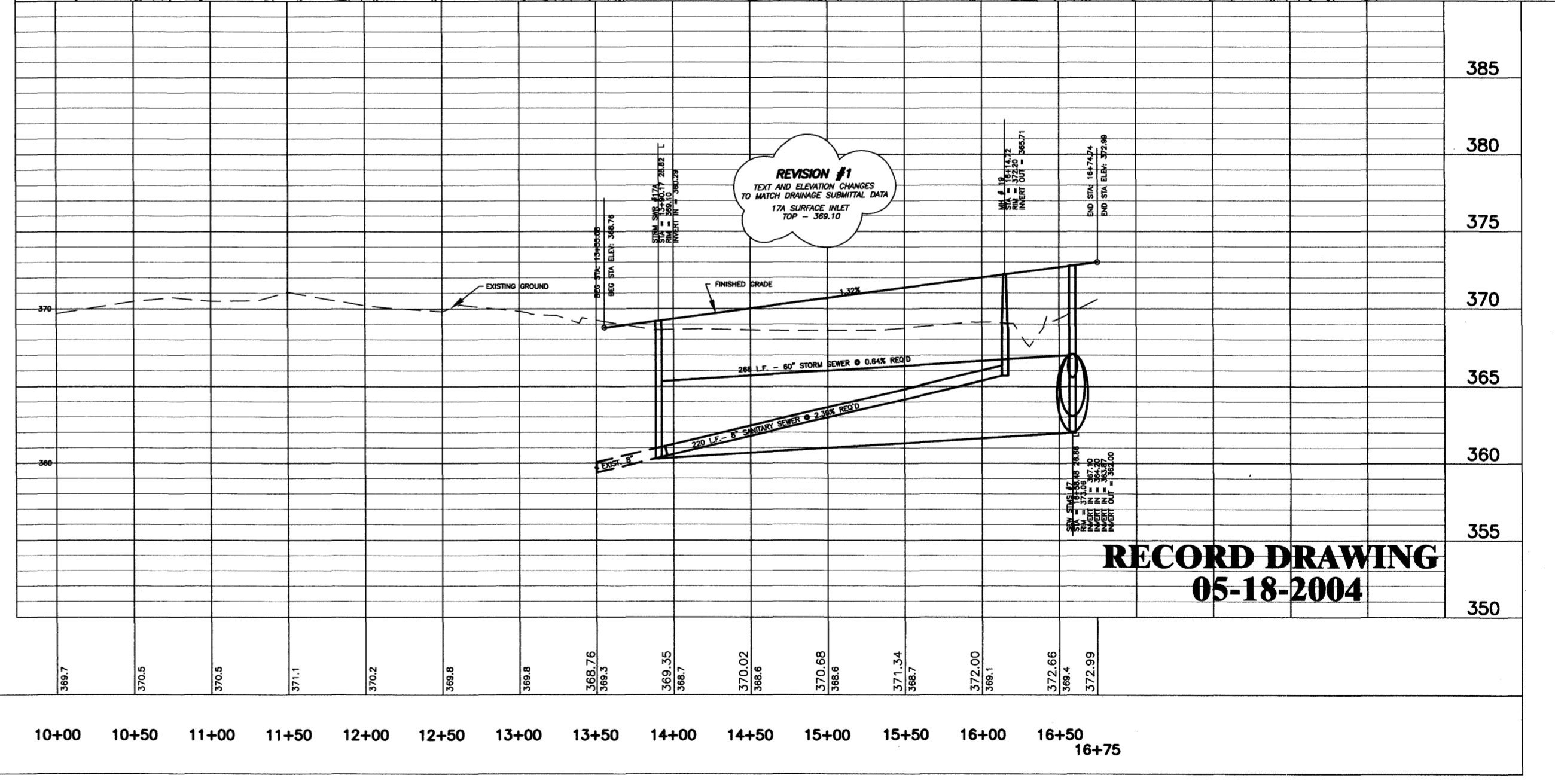
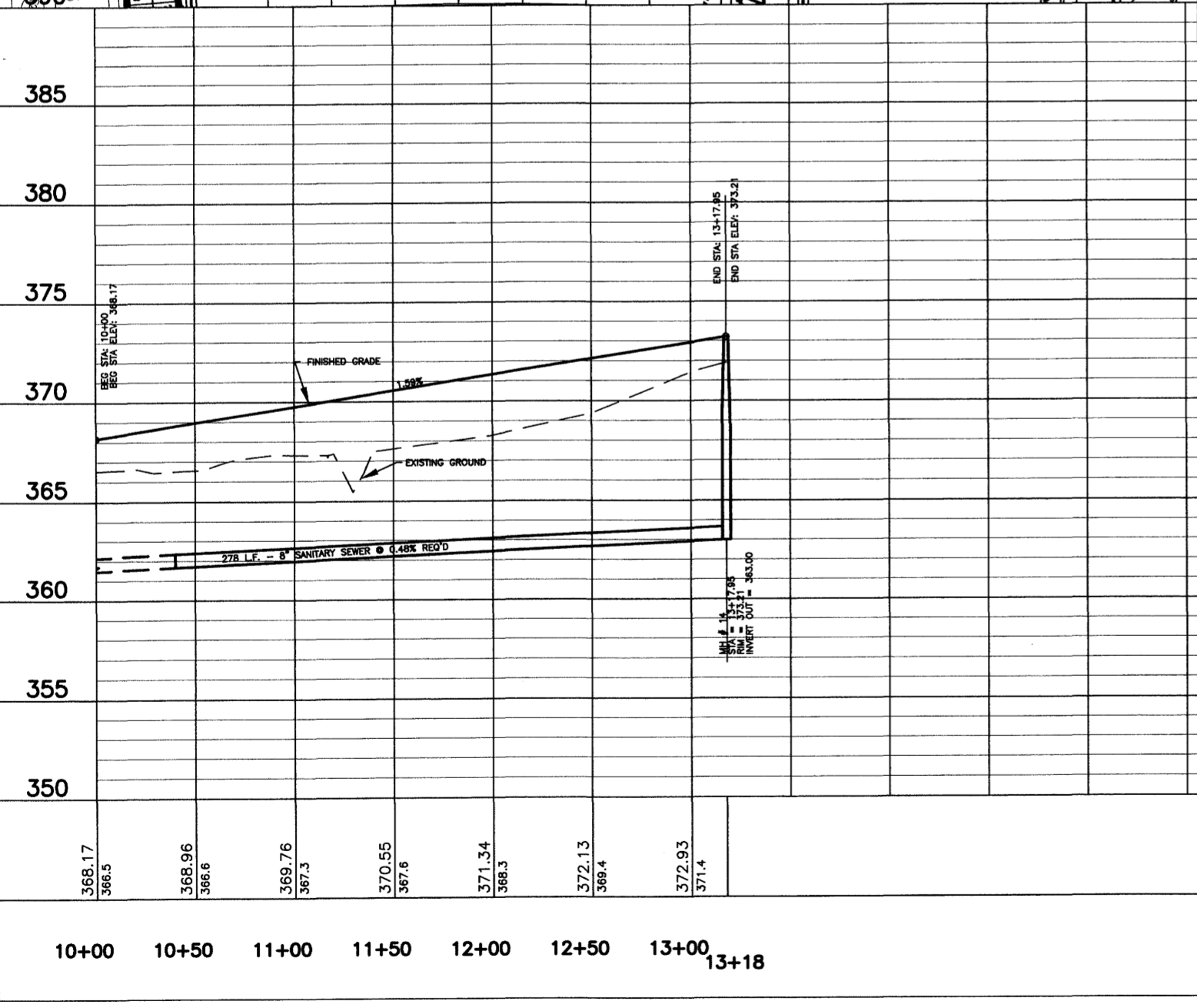
REVISIONS		
NO.	DATE	BY
1	8/21/03	J.H.G.
2	8/21/03	J.H.G.
3	8/21/03	J.H.G.
4	11/06/03	A.U.J.
5		
6		

SCALE
HORZ.: 1" = 50'
VERT.: 1" = 5'
DATE
APPROVED BY **DSB**
DRAWN BY **AUJ**
CHECKED BY **DSB**

SHEET TITLE
NORTHLAKE AVE. & HARPER STREET
PLAN/PROFILE
FILE NAME
SHEET NO. **6**



- NOTES
FOR REVISION DATE 11/06/03
- PRIVATE DRIVE 8 FROM STATION 10+00 TO 18+00 WAS MOVED EAST 2'±.
 - RE-STATIONING OF PRIVATE DRIVE 8 WAS DONE WITH A STATION EQUATION. STATIONS CHANGED FROM 10+00 TO 18+08.03 LINE BACK. STATIONS 18+00 LINE AHEAD ARE UNCHANGED.
 - LOTS 96-129A PROPERTY LINES WERE MODIFIED AND UTILITY SERVICES WERE ADJUSTED ACCORDING TO LOT LOCATIONS.



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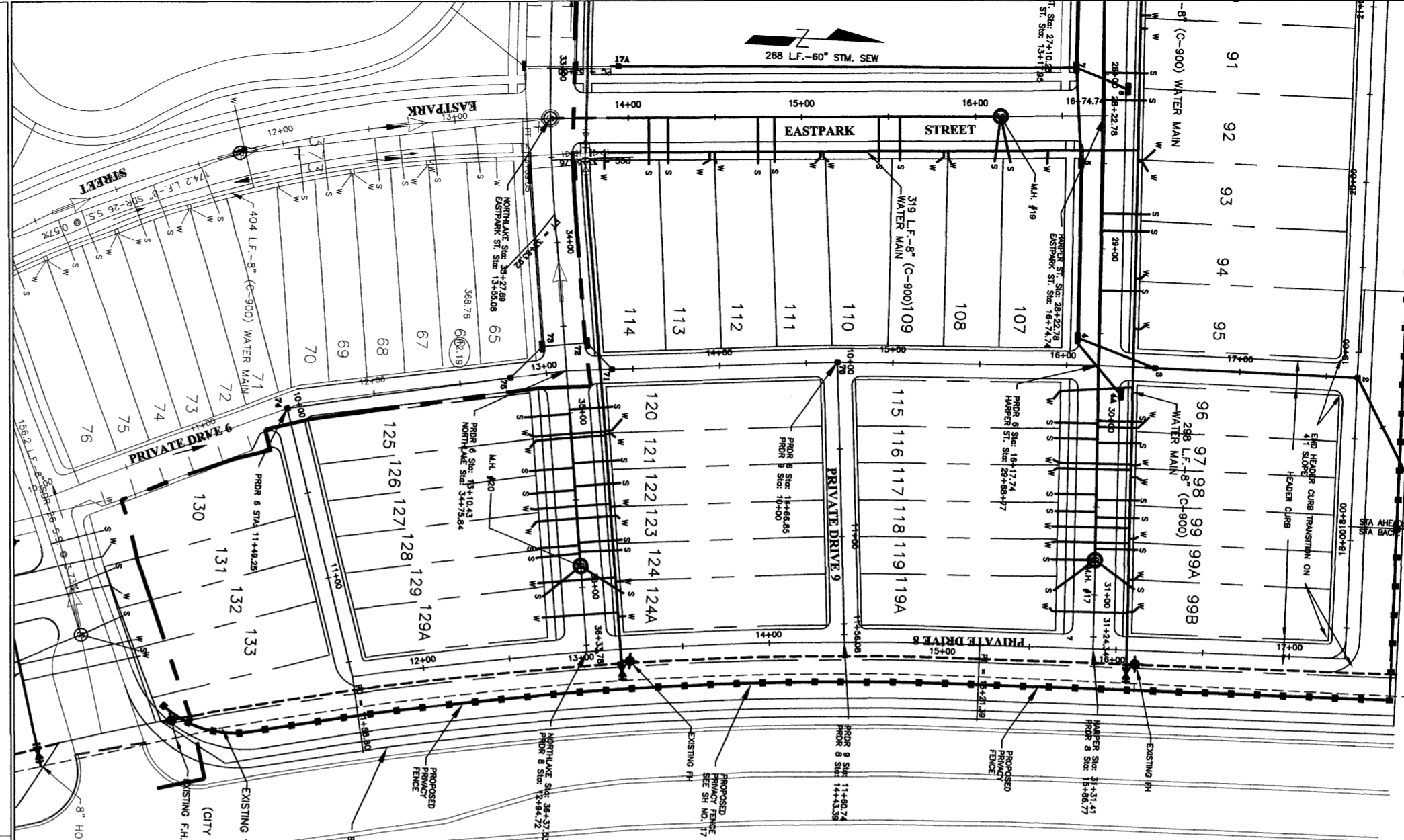
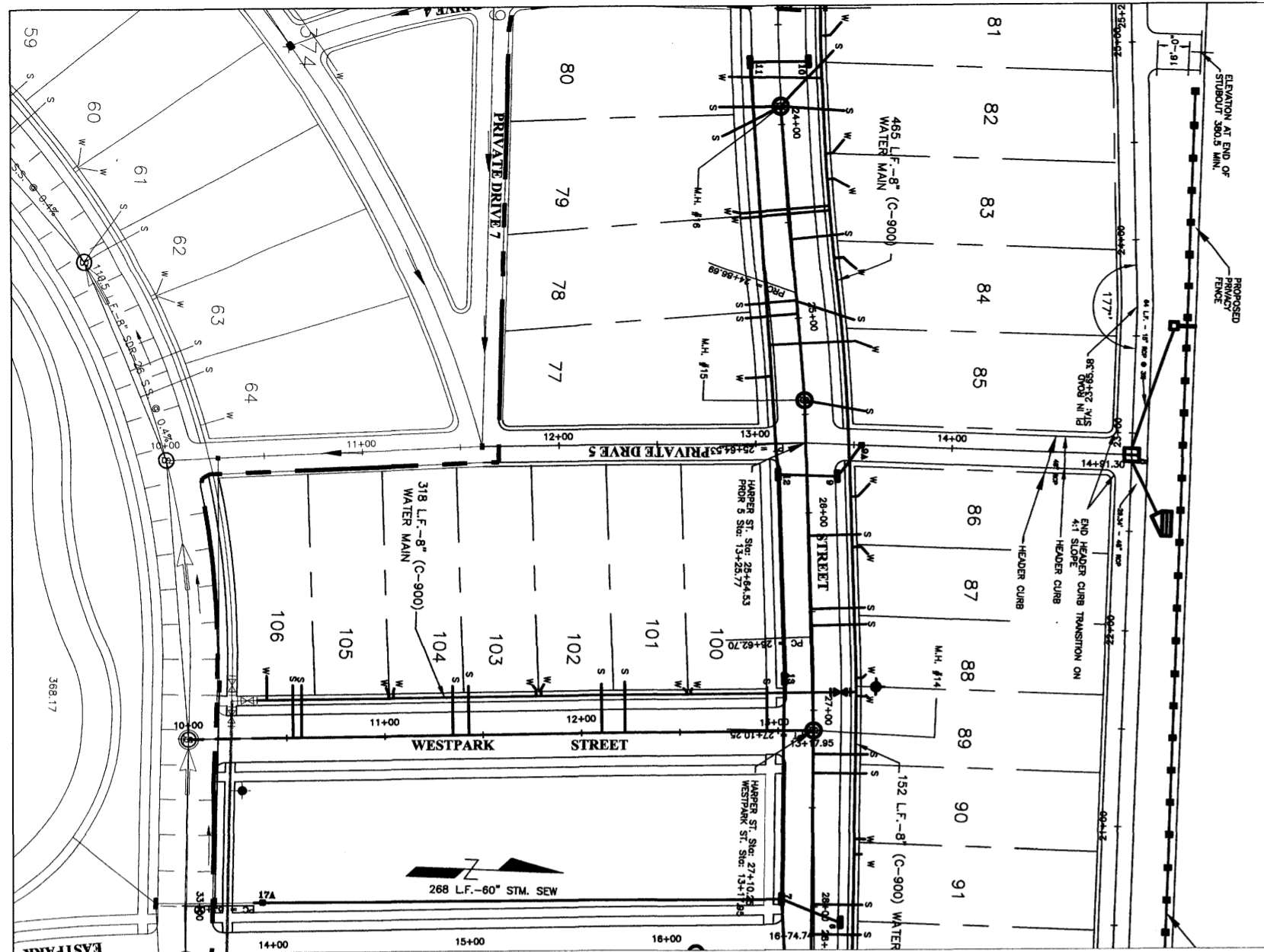
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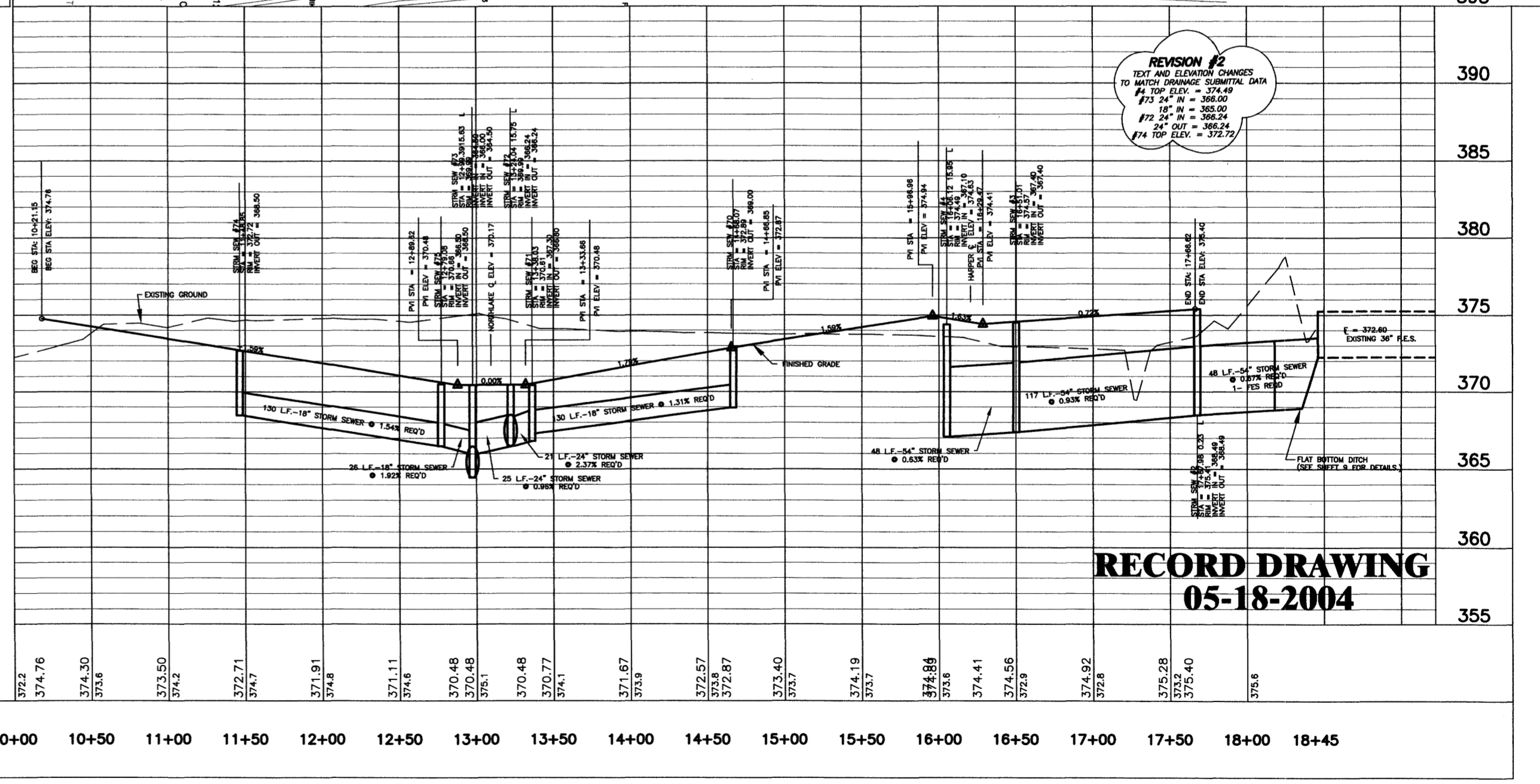
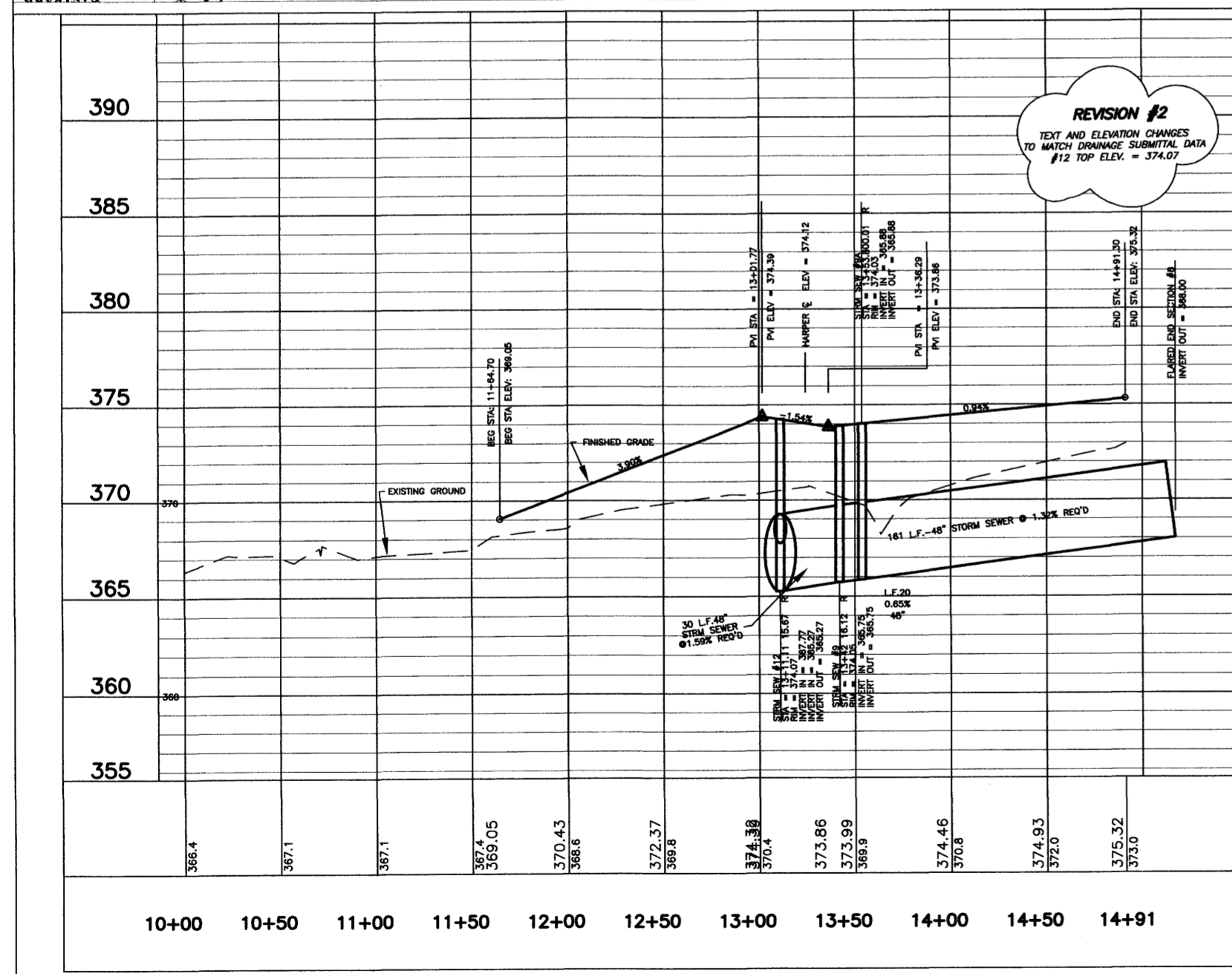
SCALE
HORZ.: 1" = 50'
VERT.: 1" = 5'
DATE
APPROVED BY
DSB
DRAWN BY
AUJ
CHECKED BY
DSB

SHEET TITLE
**EASTPARK STREET & WESTPARK STREET
PLAN/PROFILE**
FILE NAME
SHEET NO. **7**

M:\Projects\ColonyPark\Phase 2\Drawings\DCI\DCI Phase 2\Revised\DCI.dwg, 10/26/2004 10:56:58 AM, Anthony Jones, HP DesignJet 1050C by HP PCL



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REVISION #2
TEXT AND ELEVATION CHANGES TO MATCH DRAINAGE SUBMITTAL DATA #12 TOP ELEV. = 374.07

REVISION #2
TEXT AND ELEVATION CHANGES TO MATCH DRAINAGE SUBMITTAL DATA
#12 TOP ELEV. = 374.07
#72 24" IN. = 365.00
#72 24" IN. = 366.24
#74 TOP ELEV. = 372.72

RECORD DRAWING
05-18-2004

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JACKSON, MS 39206

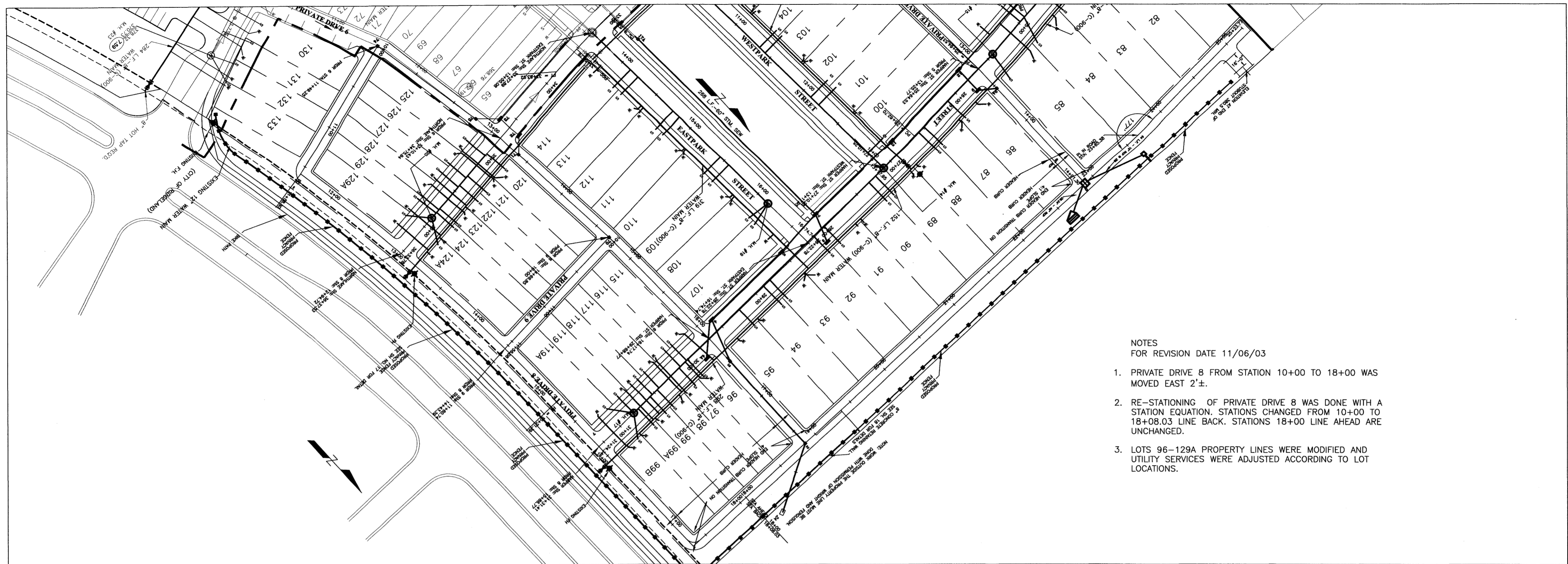
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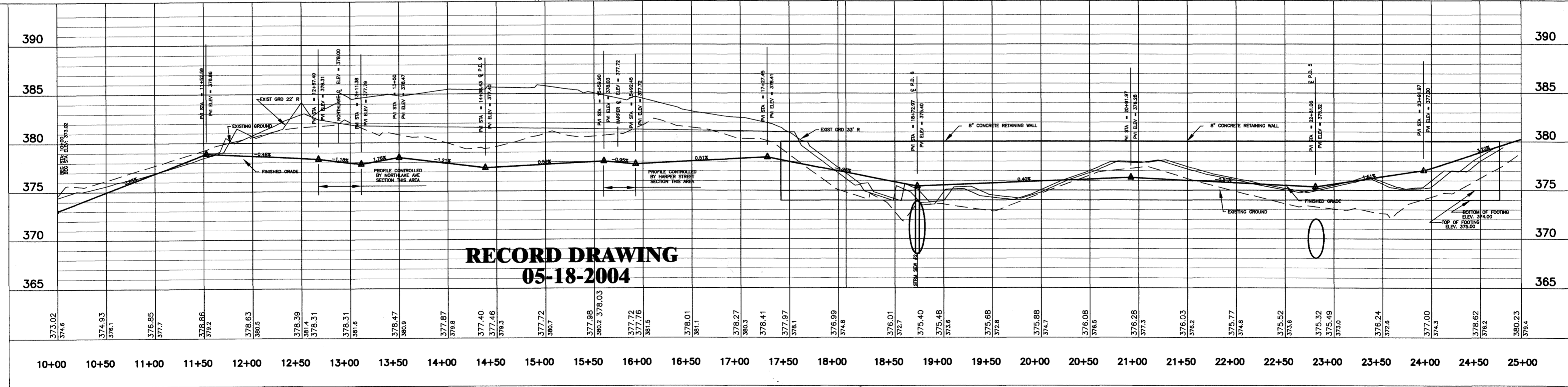
REVISIONS		
NO.	DATE	BY
1	08/21/03	J.H.G.
2	08/21/03	J.H.G.
3	11/06/03	A.U.J.
4		
5		
6		

SCALE HORZ.: 1" = 50' VERT.: 1" = 5'
DATE
APPROVED BY DSB
DRAWN BY AUJ
CHECKED BY DSB

SHEET TITLE PRIVATE DRIVE 5 & PRIVATE DRIVE 6 PLAN/PROFILE	
FILE NAME	SHEET NO. 8



- NOTES
FOR REVISION DATE 11/06/03
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PRIVATE DRIVE 8

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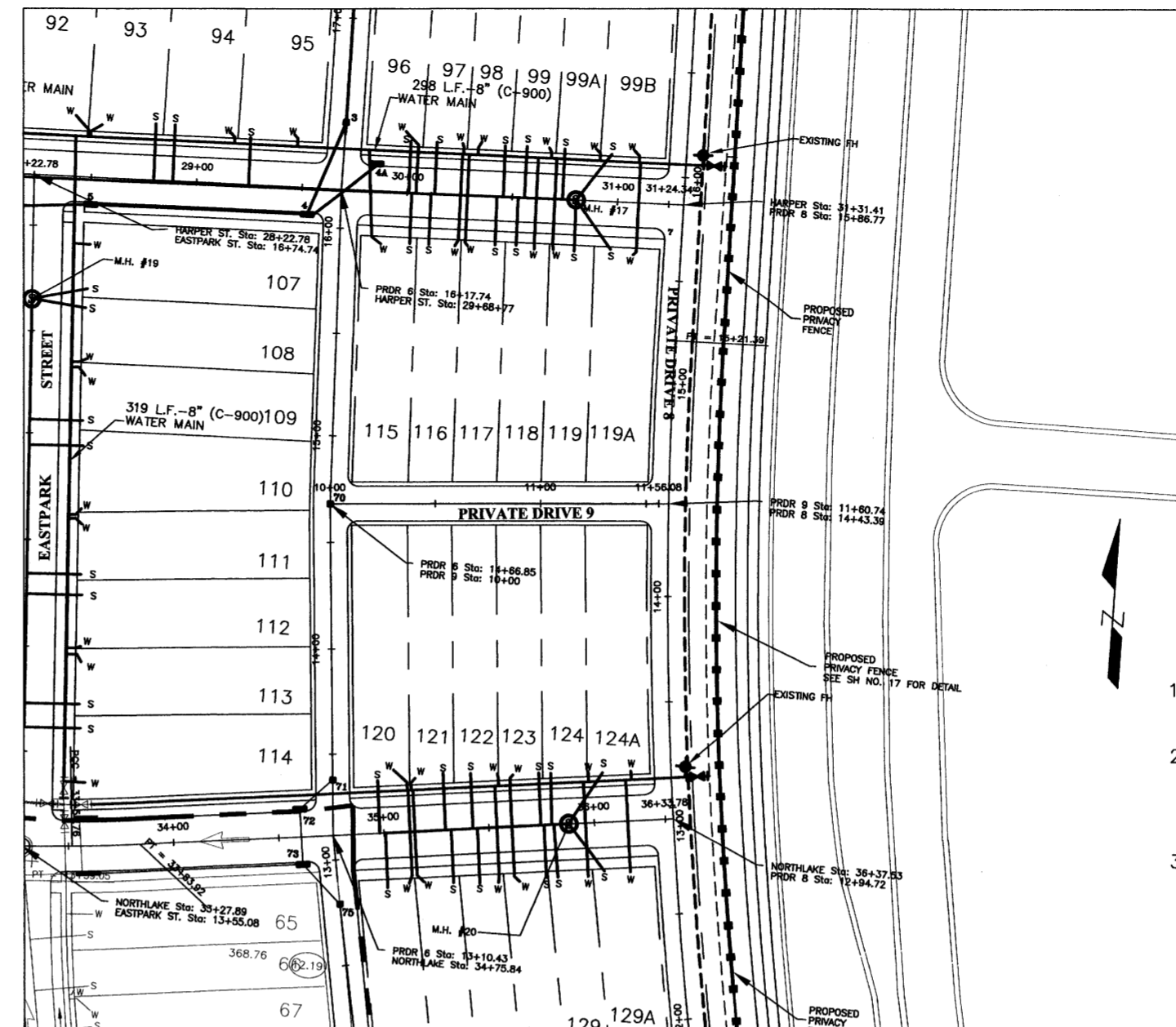
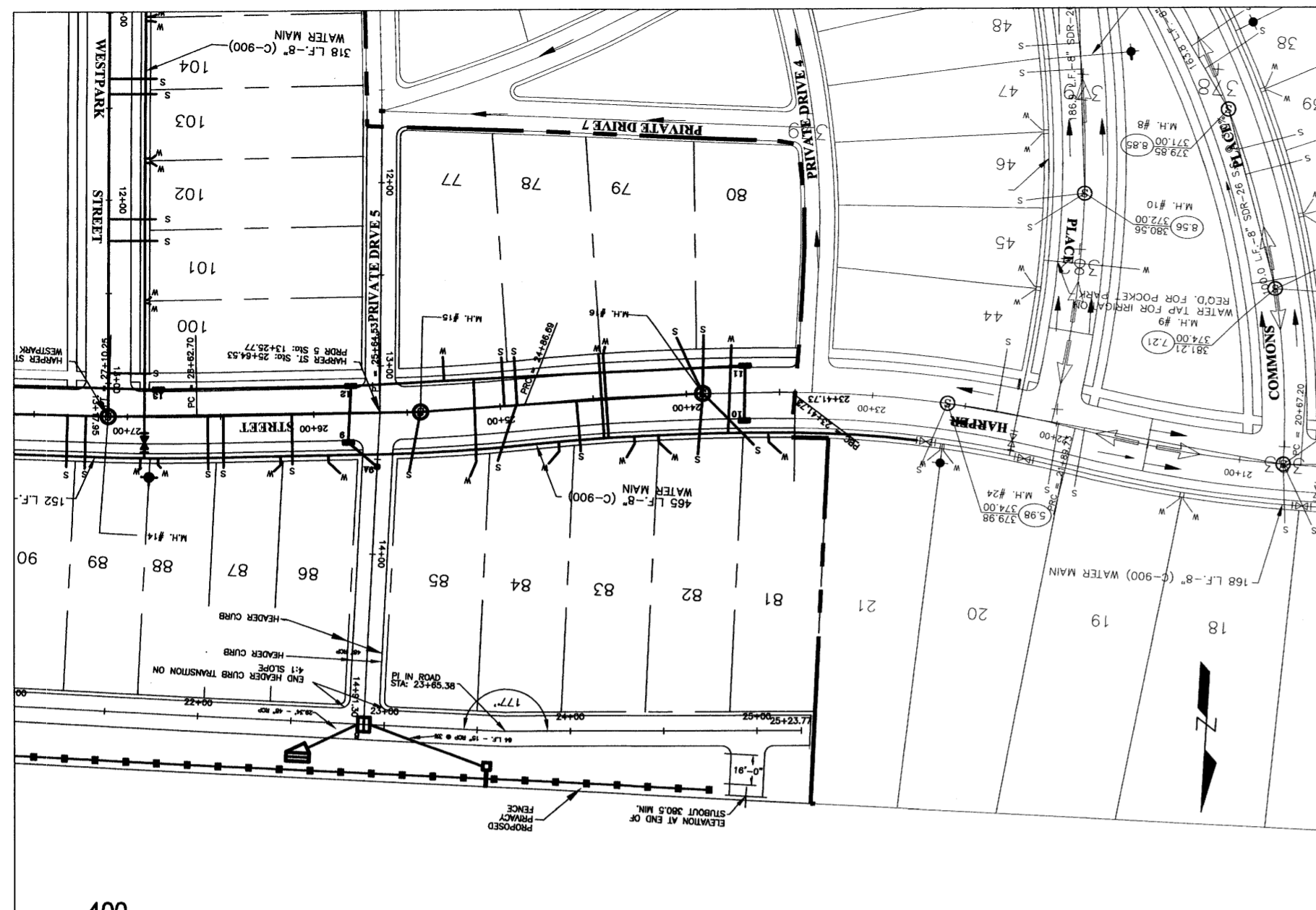
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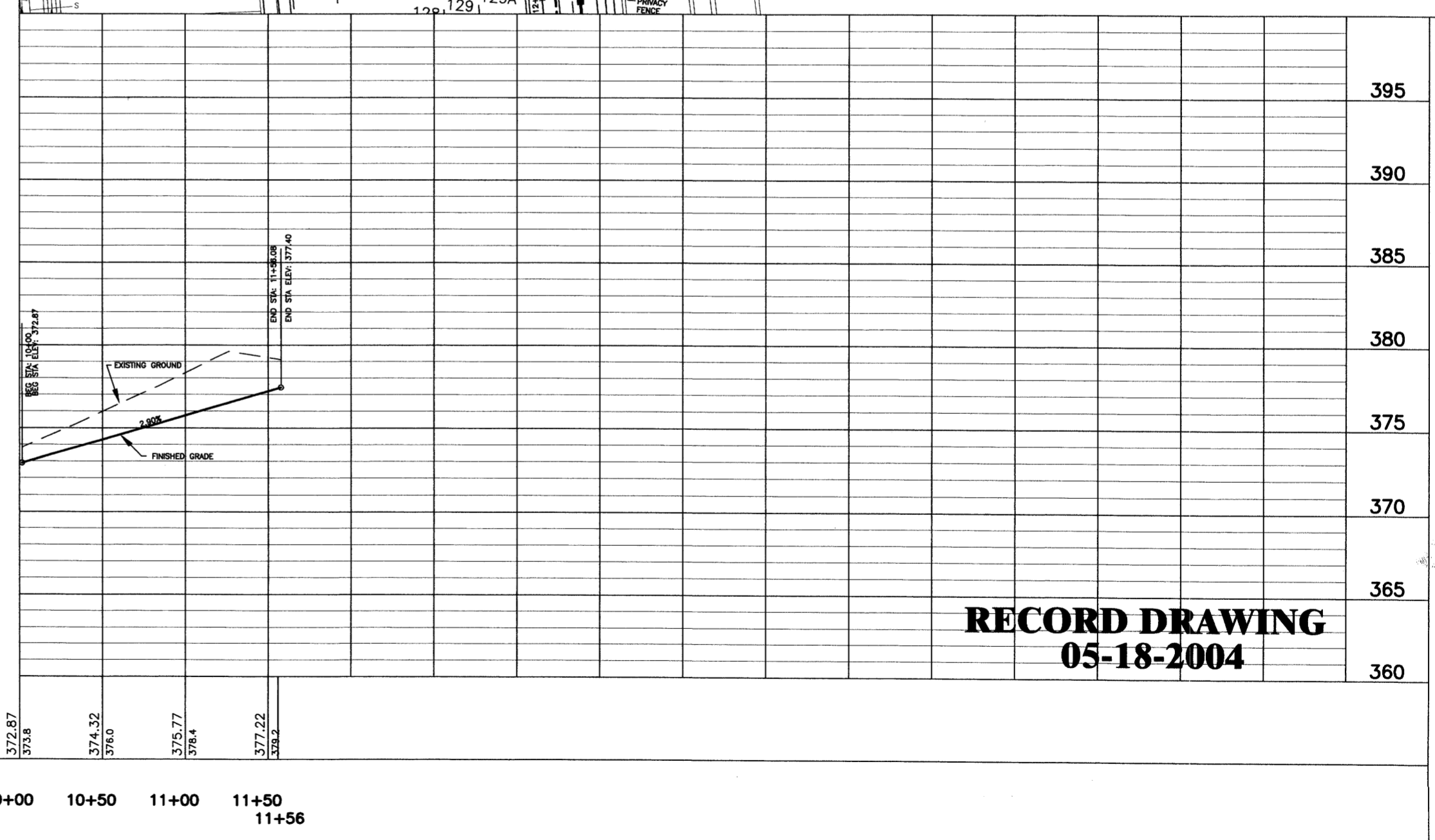
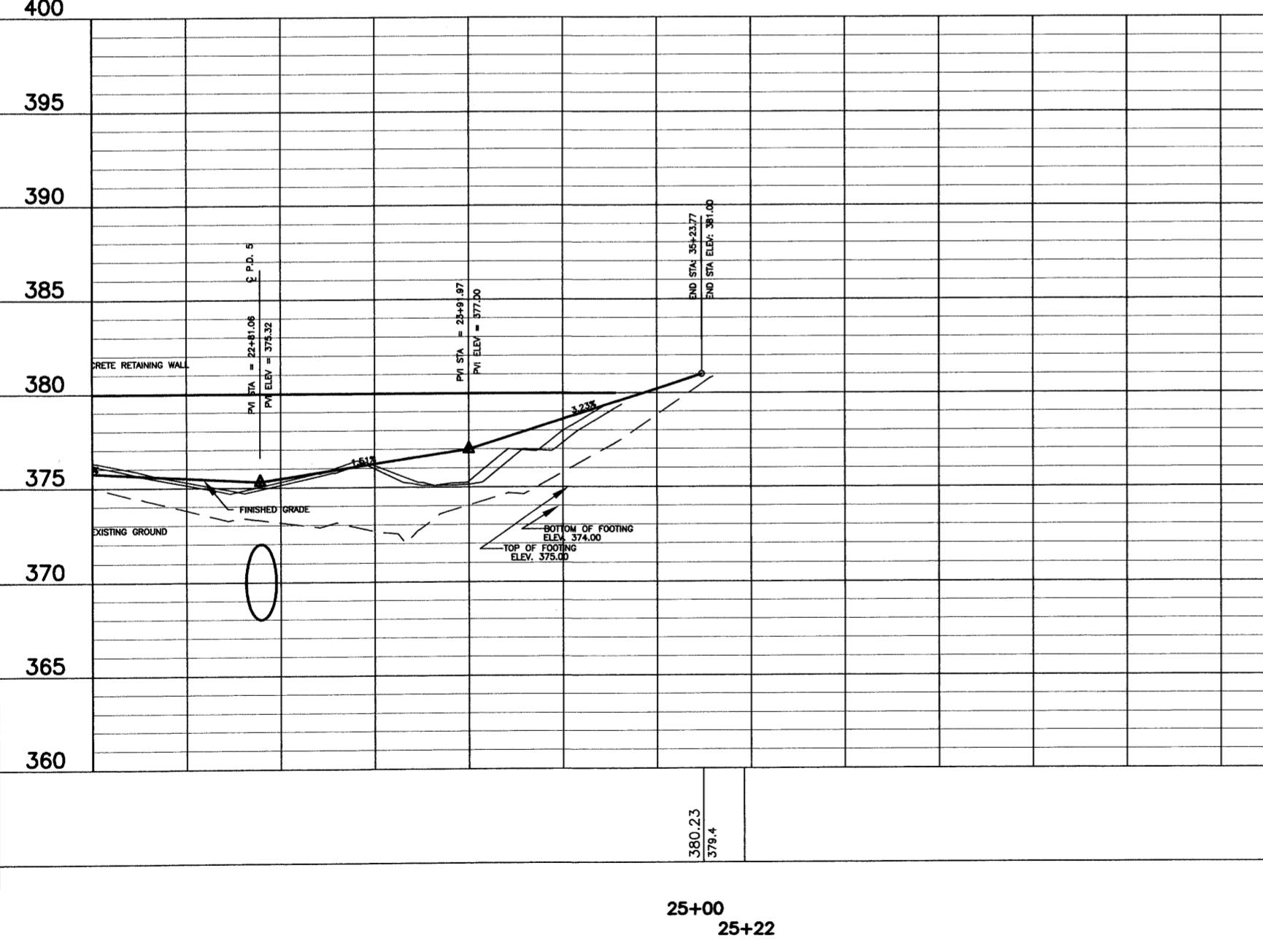
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6		

SCALE
HORIZ.: 1" = 50'
VERT.: 1" = 5'
DATE
APPROVED BY **DSB**
DRAWN BY **AUJ**
CHECKED BY **DSB**

SHEET TITLE
**PRIVATE DRIVE 8
PLAN/PROFILE**
FILE NAME
SHEET NO. **9**



- NOTES
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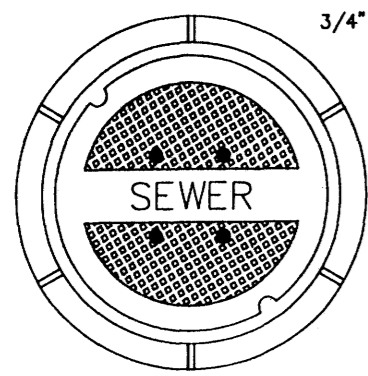
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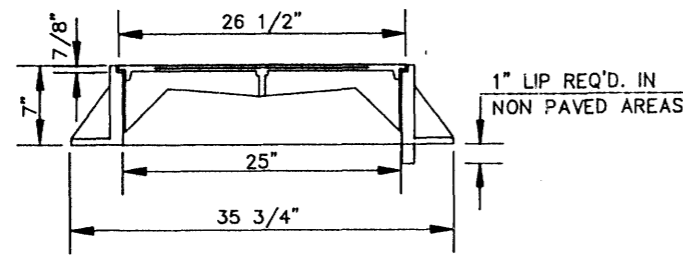
SCALE
HORZ.: 1" = 50'
VERT.: 1" = 5'
DATE
APPROVED BY
DRAWN BY
CHECKED BY

SHEET TITLE
PRIVATE DRIVE 8 & PRIVATE DRIVE 9 PLAN/PROFILE
FILE NAME
SHEET NO. **10**



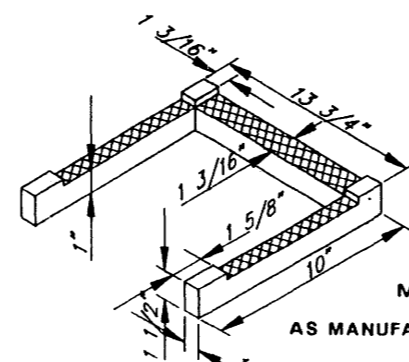
3/4" HOLES

TOP PLAN OF COVER



SECTION

FRAME & COVER WEIGHT 420 LBS.

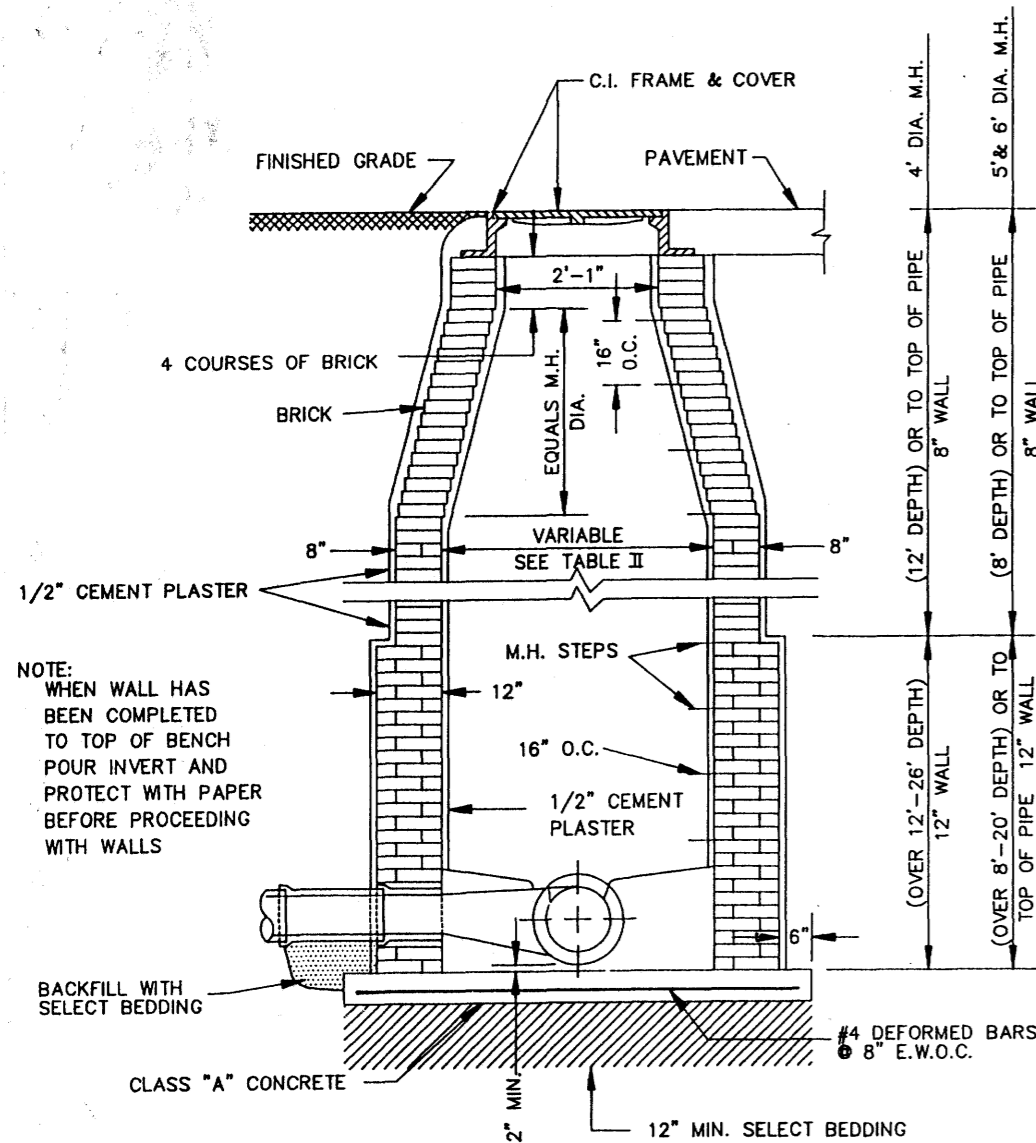


DETAIL 'B'

MODEL NO. PS2 - PF
AS MANUFACTURED BY M.A. INDUSTRIES INC.

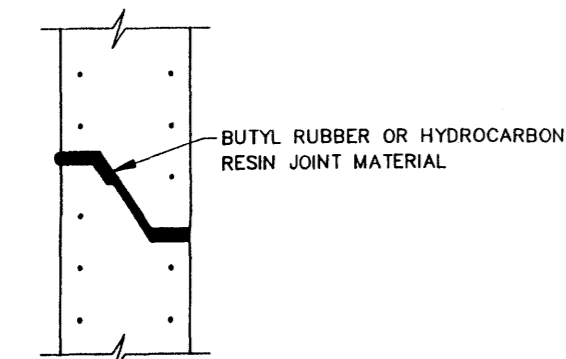
STANDARD MANHOLE FRAME AND COVER

N.T.S.



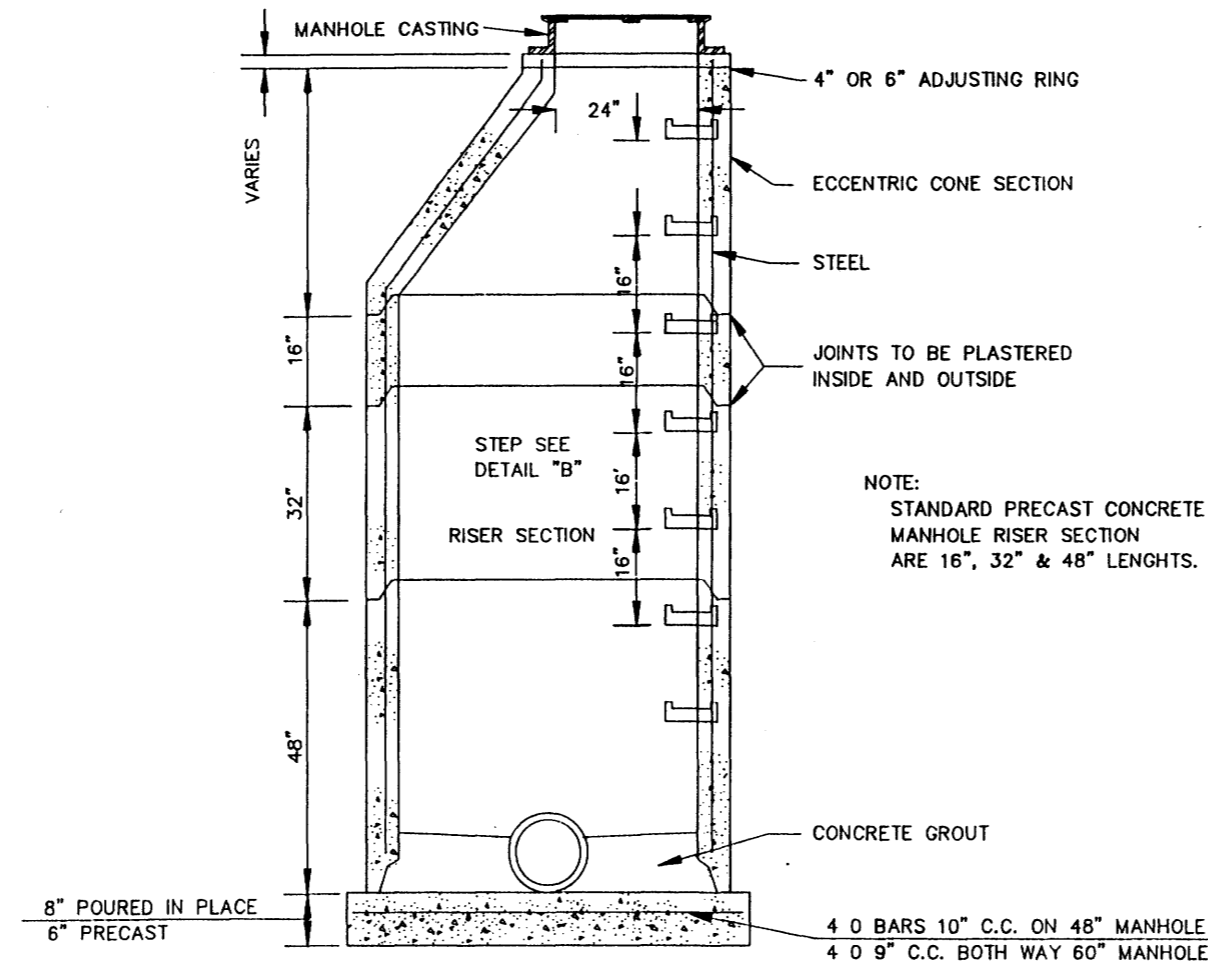
STANDARD BRICK MANHOLE

N.T.S.



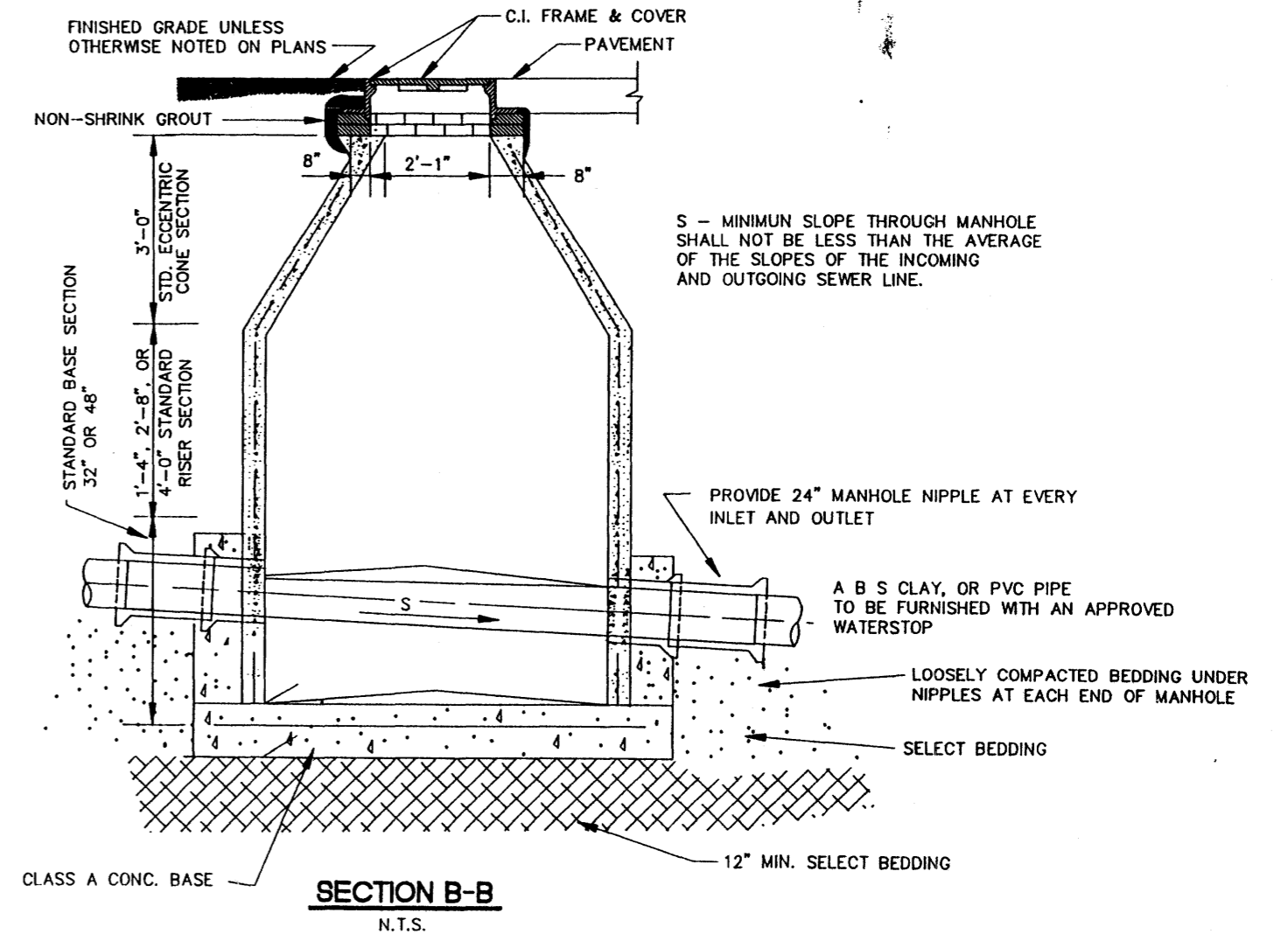
TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL

N.T.S.



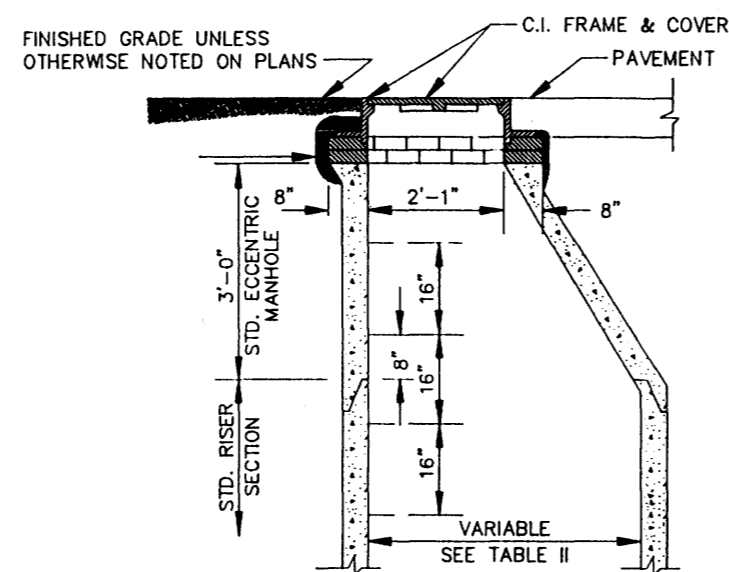
SECTION OF PRECAST CONCRETE MANHOLE

N.T.S.



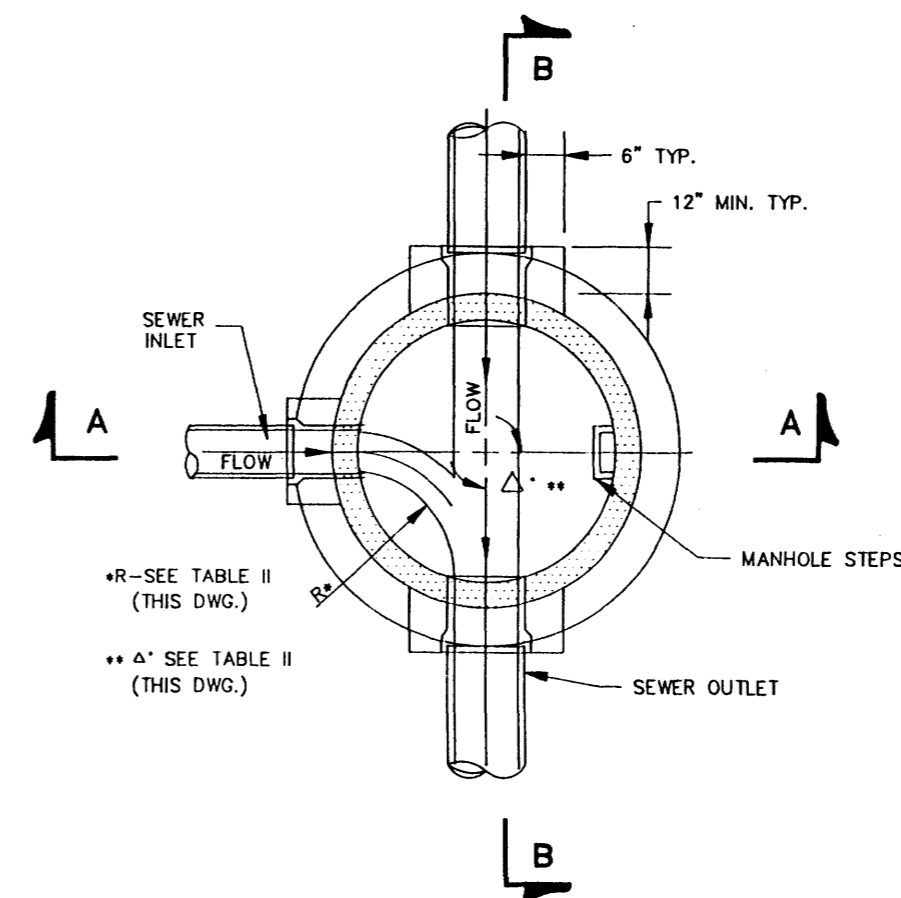
SECTION B-B

N.T.S.



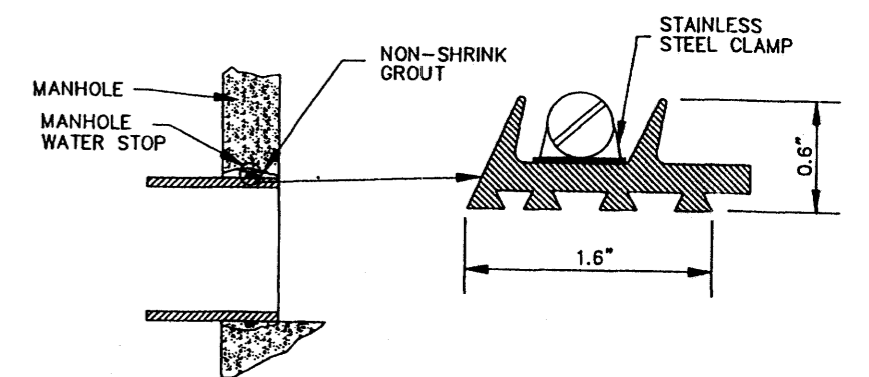
STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES

N.T.S.



SECTIONAL PLAN STANDARD MANHOLE

N.T.S.



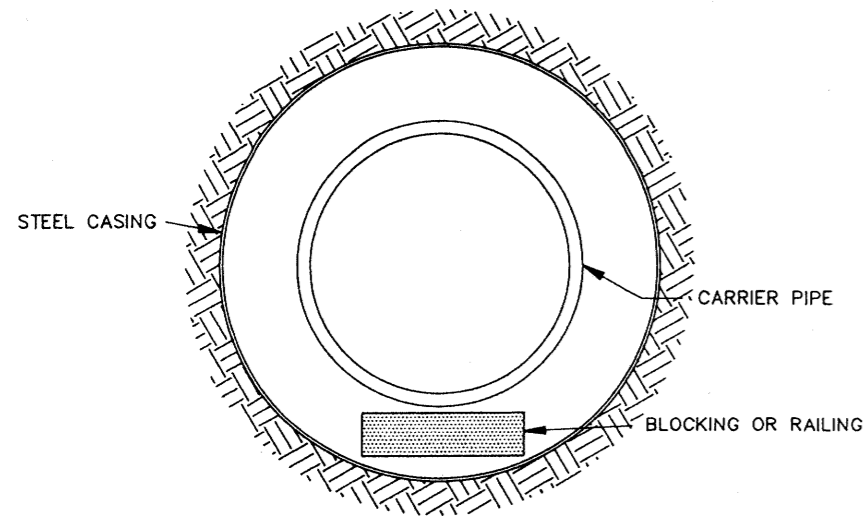
TYPICAL MANHOLE WATER STOP FOR ABS, CLAY OR PVC PIPE

EXISTING AND "STRADDLE" MANHOLES
N.T.S.

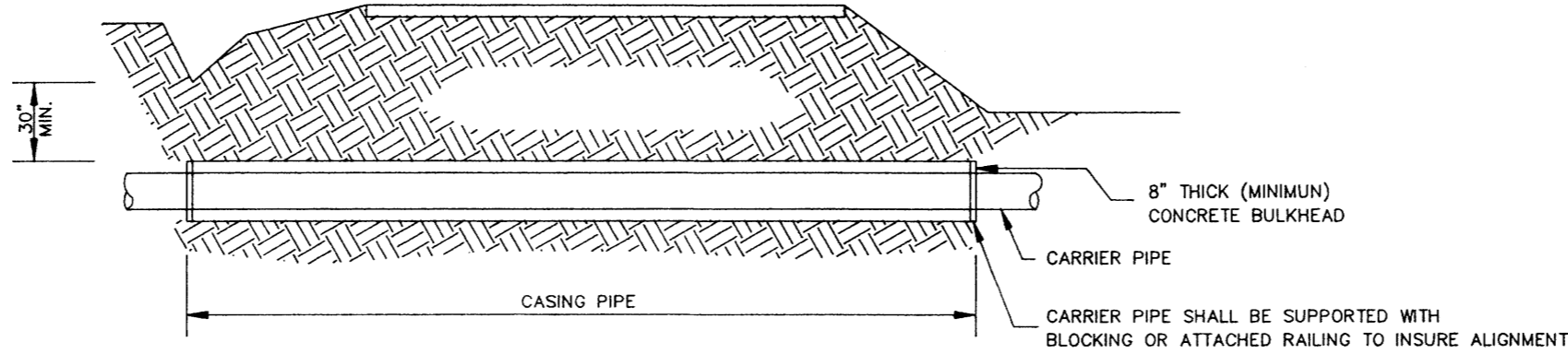
CITY OF RIDGELAND, MS.

STANDARD DETAILS

DSGN:		THE CITY OF	DRAWING NO.
DRWN:		RIDGELAND	11
CHKD:			
SCALE:			



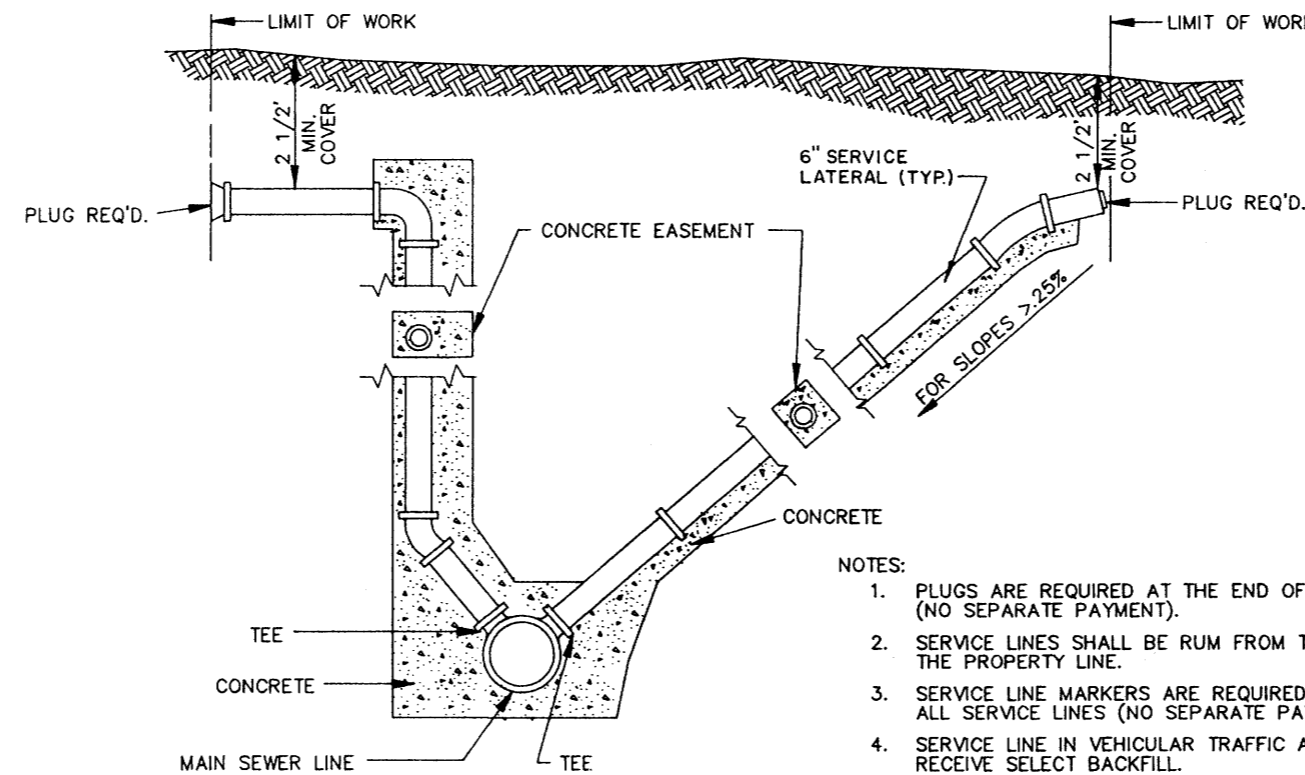
BORE SECTION
N.T.S.



TYPICAL BORE SECTION
N.T.S.

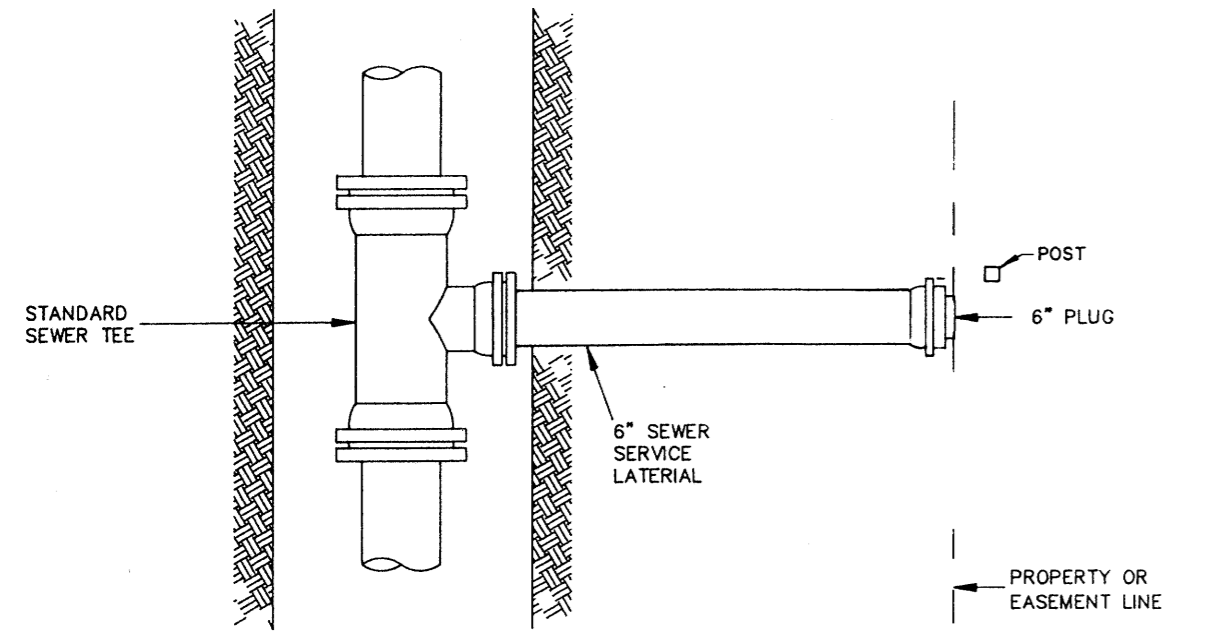
TABLE II GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	Δ ANGLE	BASE DIAMETER **	"R" *
8" THRU 12"	0° TO 90°	4'	1'- 6"
15"	0° TO 60°	4'	1'- 10"
15"	60° TO 90°	4'	1'- 10"
18"	0° TO 60°	4'	2'- 3"
18"	60° TO 90°	4'	1'- 10"
21"	0° TO 60°	4'	2'- 7"
21"	60° TO 90°	5'	2'- 4"
24"	0° TO 45°	4'	3'- 0"
24"	45° TO 90°	5'	2'- 3"
30"	0° TO 60°	5'	3'- 9"
30"	60° TO 90°	6'	2'- 8"
36"	0° TO 60°	6'	4'- 6"
36"	60° TO 90°	7'	3'- 11"
42"	0° TO 60°	7'	5'- 3"
42"	60° TO 90°	8'	4'- 7"
48"	0° TO 60°	8'	6'- 0"
48"	60° TO 90°	9'	5'- 3"

* SEE SECTIONAL PLAN, STANDARD MANHOLE
** PRECAST MANHOLE

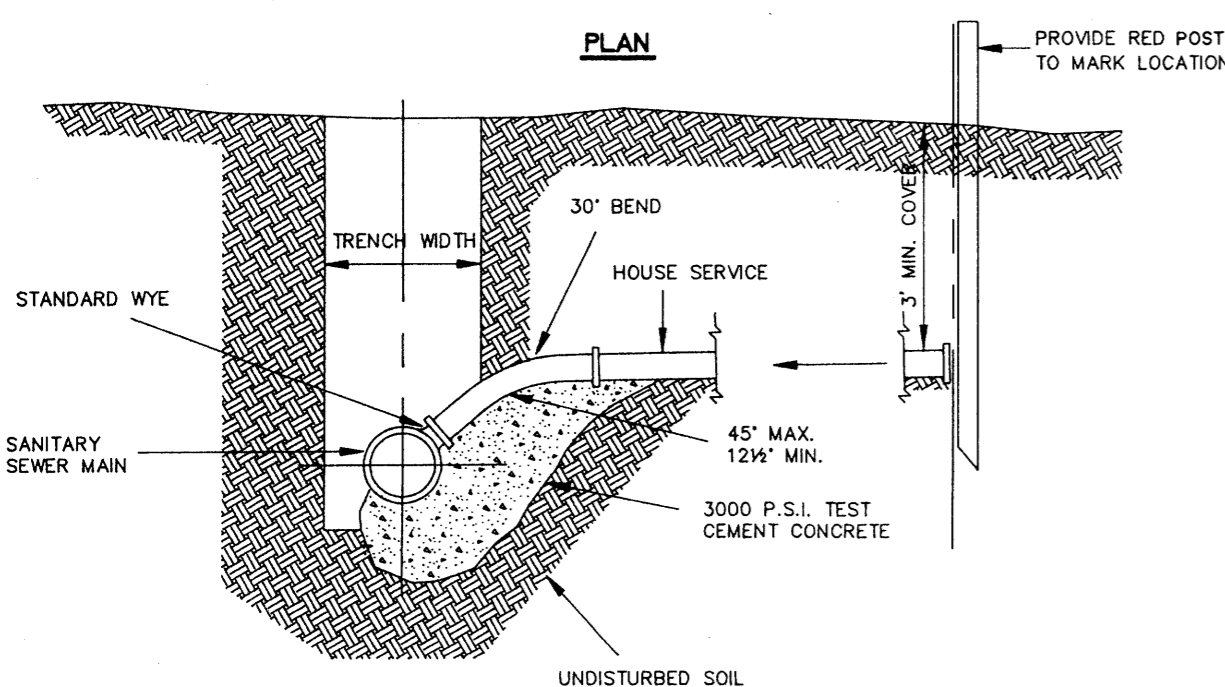


- NOTES:
1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
 2. SERVICE LINES SHALL BE RUN FROM THE SEWER LINES TO THE PROPERTY LINE.
 3. SERVICE LINE MARKERS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
 4. SERVICE LINE IN VEHICULAR TRAFFIC AREA SHALL RECEIVE SELECT BACKFILL.
 5. WHEN MINIMUM COVER NOT OBTAINED DUCTILE IRON PIPE SHALL BE USED.

SERVICE CONNECTION FOR DEEP SEWER
N.T.S.

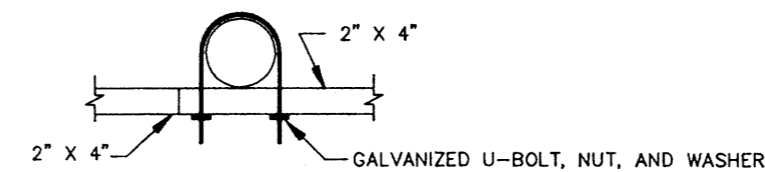


PLAN

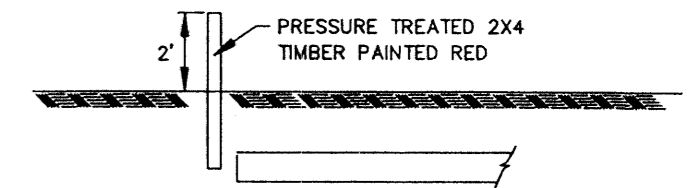


ELEVATION

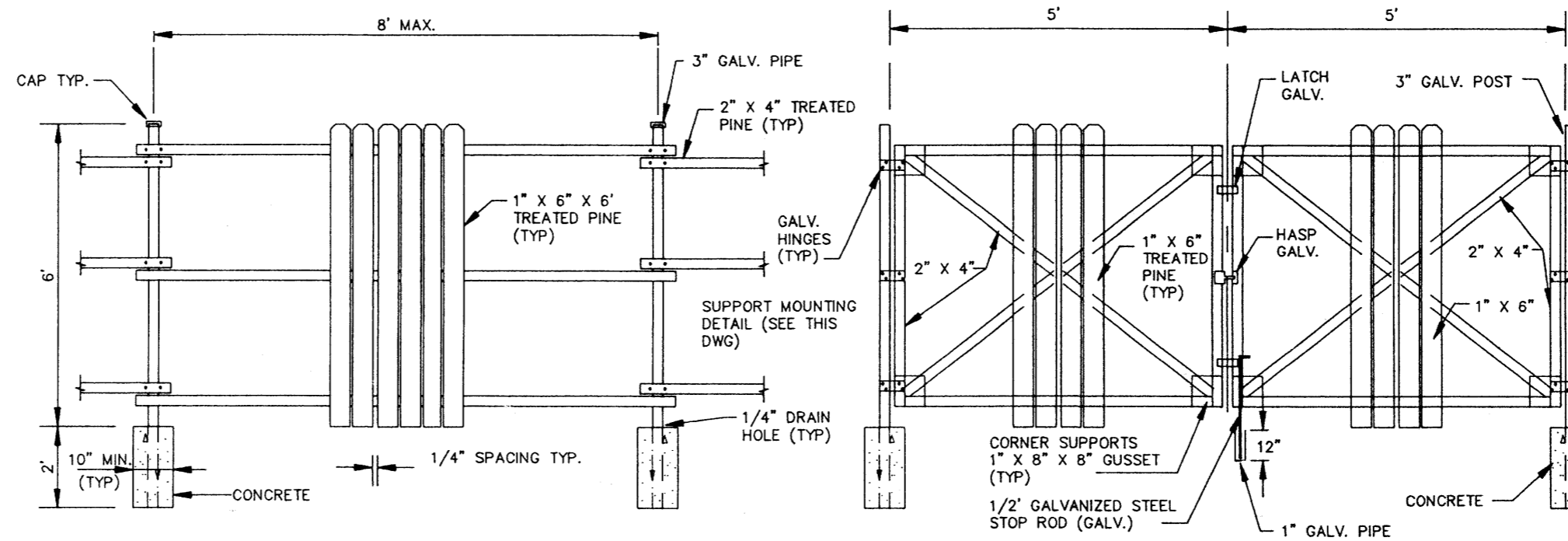
SEWER SERVICE CONNECTION
N.T.S.



SUPPORT MOUNTING DETAIL
N.T.S.



SERVICE LINE MARKER
(NO SEPARATE PAYMENT)
N.T.S.



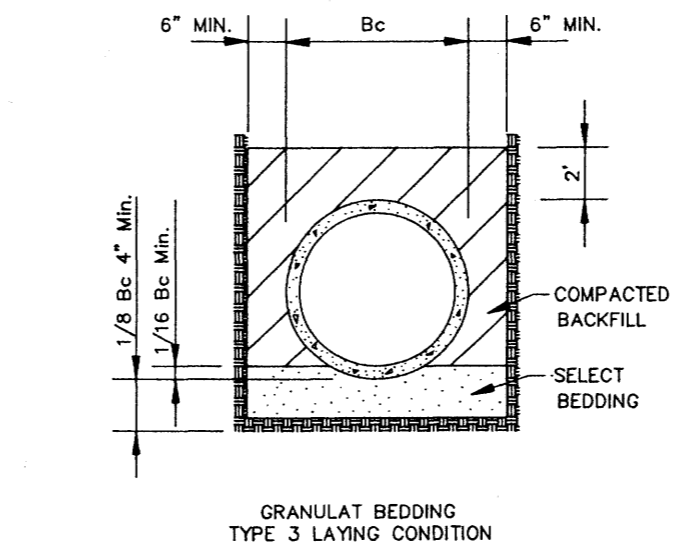
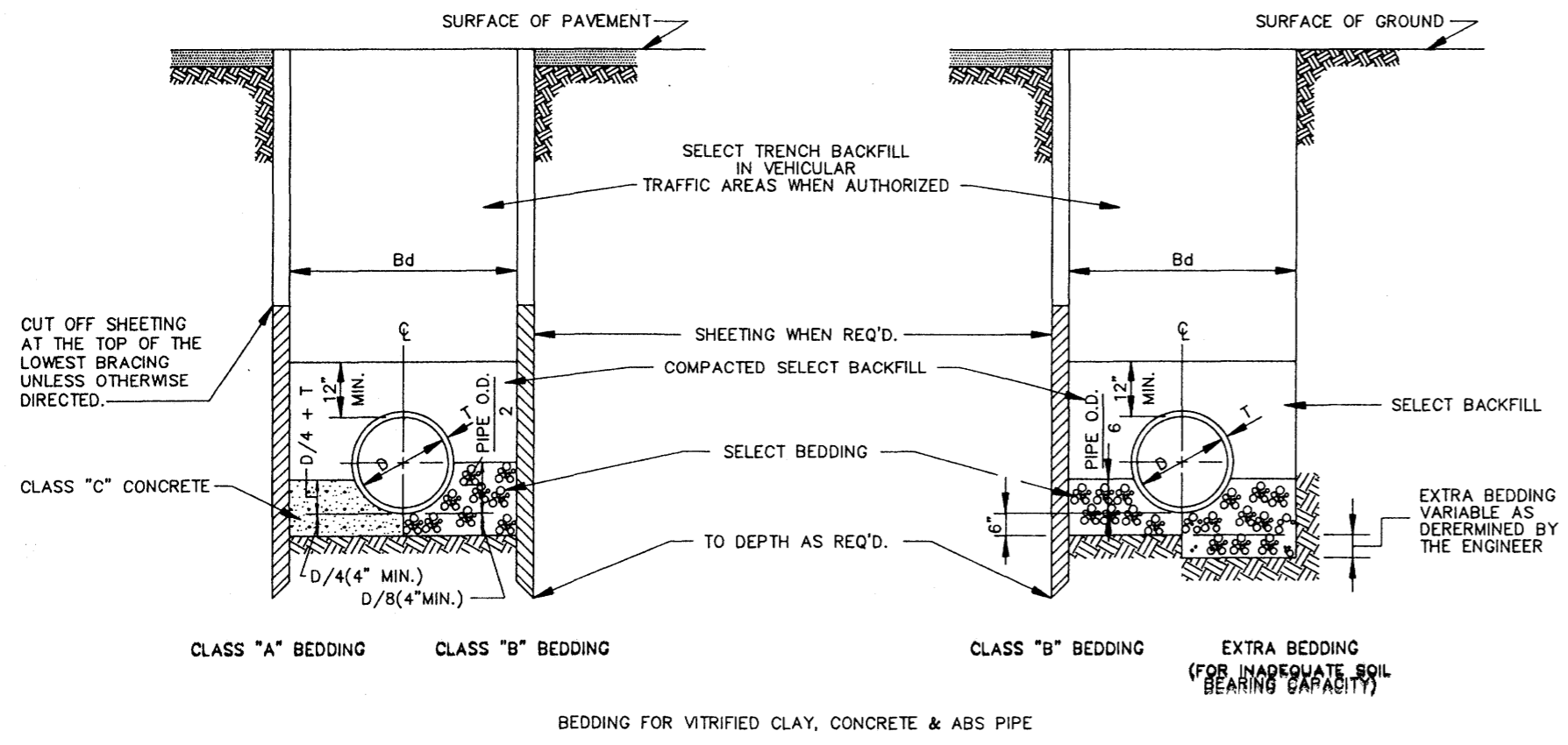
FENCE DETAIL
N.T.S.

GATE DETAIL
N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

DSGN:			DRAWING NO.
DRWN:			12
CHKD:			
SCALE:			



CLASS "A" BEDDING
 MATERIAL SHALL BE CLASS "C" CONCRETE CRADLES. THE PIPE SHALL BE LAID ON CONCRETE SADDLES CONSTRUCTED TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE PIPE WHILE THE CRADLE IS BEING PLACED. PIPE SUPPORTS OF WOOD BLOCKS, LOOSE BRICK, ETC., WILL NOT BE PERMITTED. THE CRADLE SHALL BE POURED AFTER THE JOINTS HAVE BEEN MADE, CARE BEING TAKEN TO PREVENT MOVEMENT OF THE PIPE. WHENEVER THE CONTRACTOR PLACES CONCRETE OUTSIDE THE DIMENSIONS SHOWN ON THE DRAWINGS, THE COST OF SUCH CONCRETE WILL BE AT THE CONTRACTOR'S EXPENSE.

CLASS "B" BEDDING
 MATERIAL SHALL BE SELECT BEDDING AS SPECIFIED. MATERIAL SHALL BE CAREFULLY PLACED AND THOROUGHLY COMPACTED BY TAMPING.

CLASS "C" BEDDING (STANDARD BEDDING)
 MATERIAL SHALL BE THE SAME AS FOR CLASS "B" BEDDING AND SHALL BE PLACED AS SHOWN BY STANDARD DETAILS FOR THE TYPE OF PIPE USED.

TYPICAL TRENCH DETAILS
 N.T.S.

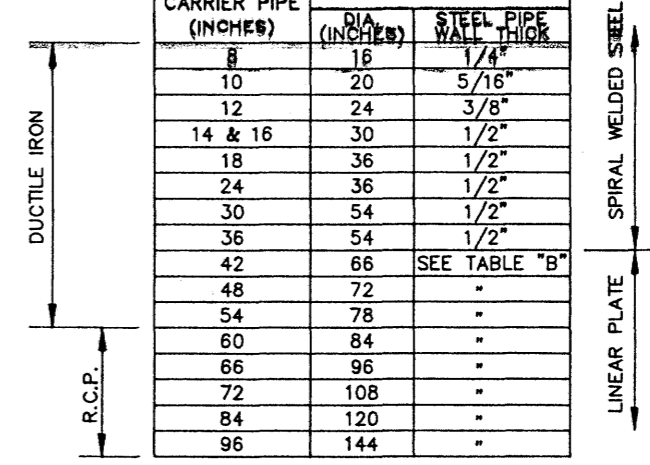
TYPICAL TRENCH DETAILS (FORCE MAIN)

TABLE "A"
PIPE SIZE

CARRIER PIPE (INCHES)	CASING PIPE	
	DIA. (INCHES)	STEEL PIPE WALL THICK.
8	16	1/4"
10	20	5/16"
12	24	3/8"
14 & 16	30	1/2"
18	36	1/2"
24	36	1/2"
30	54	1/2"
36	54	1/2"
42	66	SEE TABLE "B"
48	72	-
54	78	-
60	84	-
66	96	-
72	108	-
84	120	-
96	144	-

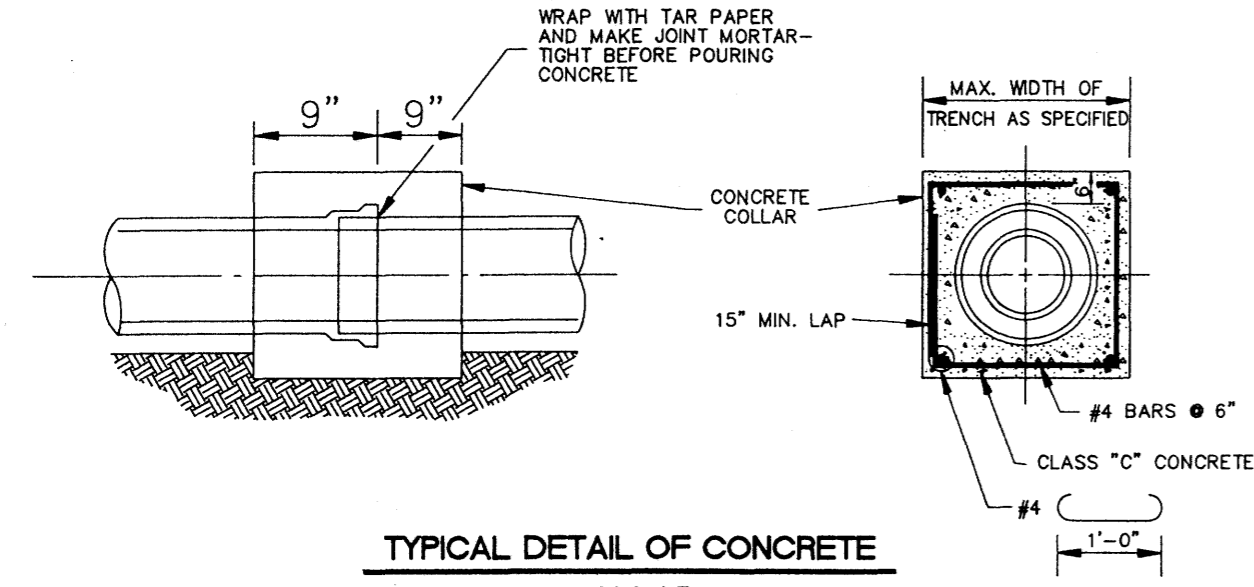
TABLE "B"
GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES

NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET)											
	10	12	14	16	18	20	22	24	26	28	30	32
48	12	12	12	12	12	12	12	12	12	10	8	7
54	12	12	12	12	12	12	12	12	10	8	7	5
60	12	12	12	12	12	12	12	10	8	7	5	5
66	12	12	12	12	12	12	10	8	7	5	5	3
72	12	12	12	12	12	10	8	7	5	5	3	1
78	12	12	12	12	10	8	7	5	5	3	1	1
84	12	12	12	10	10	8	5	5	5	3	1	1
96	12	10	10	10	10	8	5	5	5	3	1	1
108	10	10	10	10	8	7	5	5	5	3	1	1
120	10	10	10	8	8	7	5	5	5	3	1	1
144	8	8	8	8	5	5	3	1	1	1	1	1

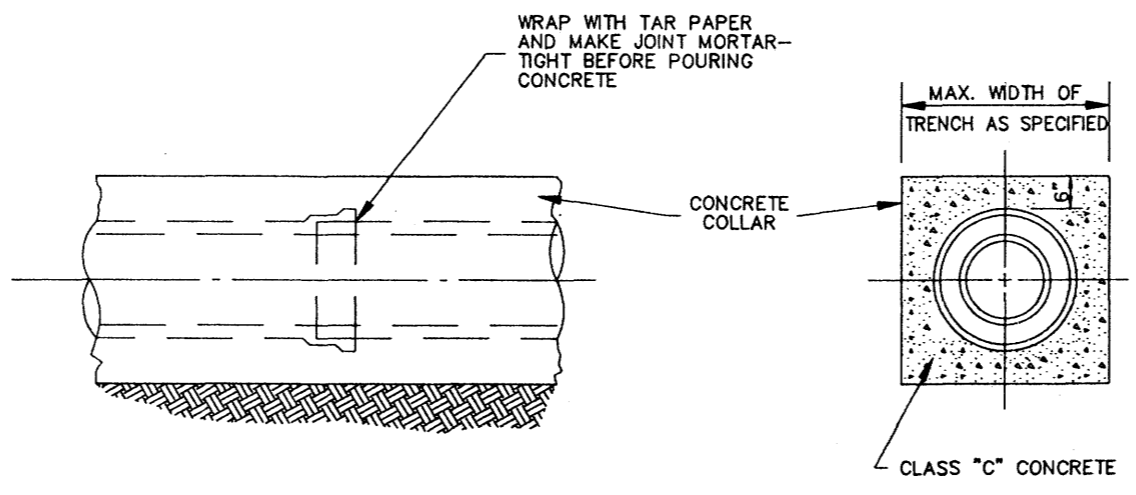


MIN. THICKNESS FOR LINER PLATE CASING IN RAILROAD CROSSING-10 GAGE

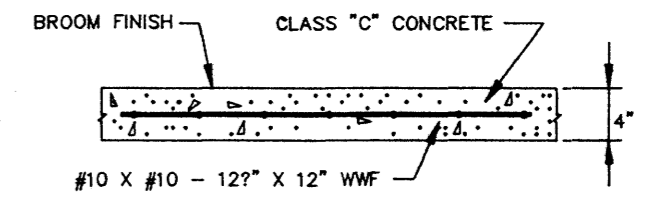
CASING PIPE
 SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING



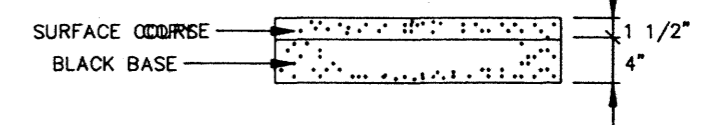
TYPICAL DETAIL OF CONCRETE COLLAR
 N.T.S.



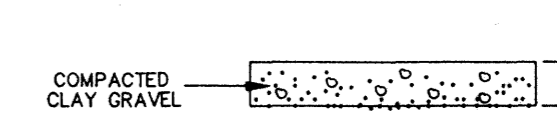
TYPICAL DETAIL OF CONCRETE ENCASEMENT
 N.T.S.



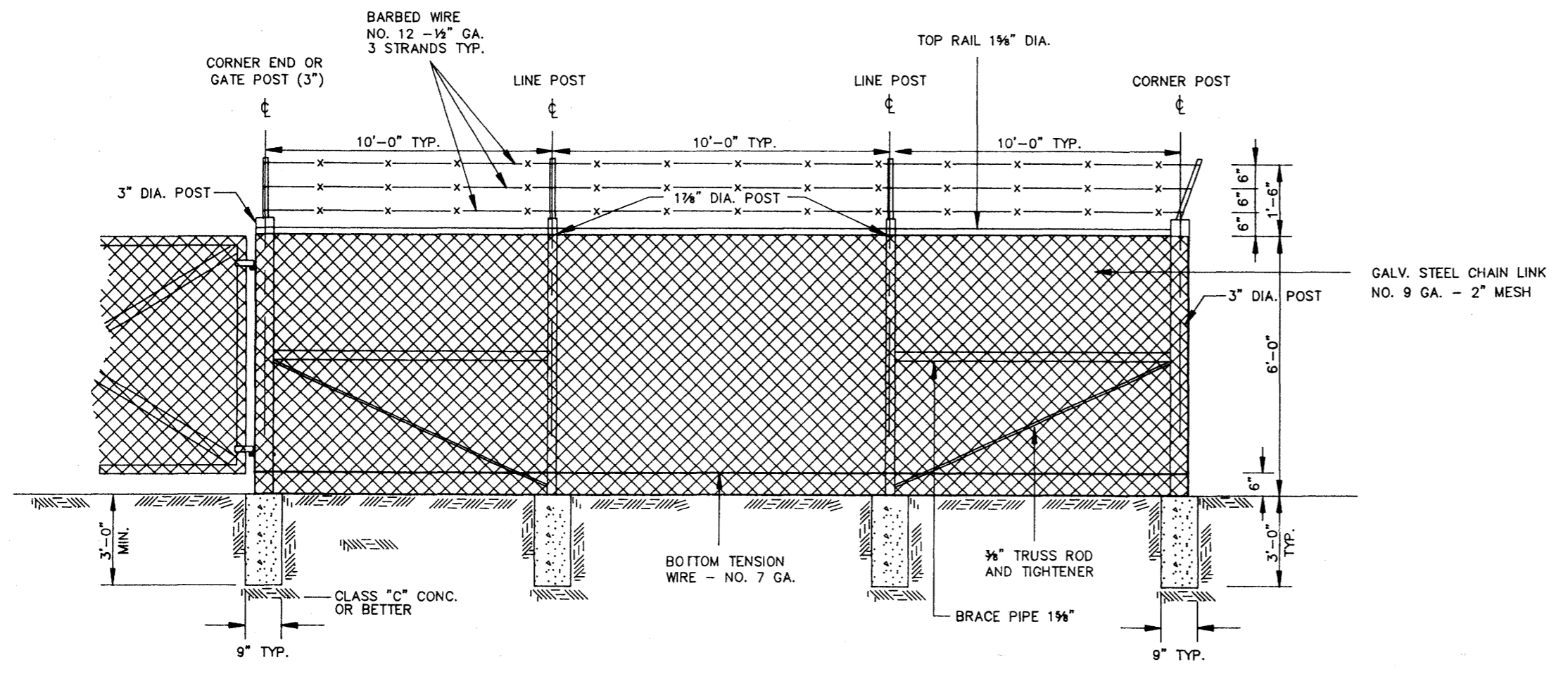
TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR

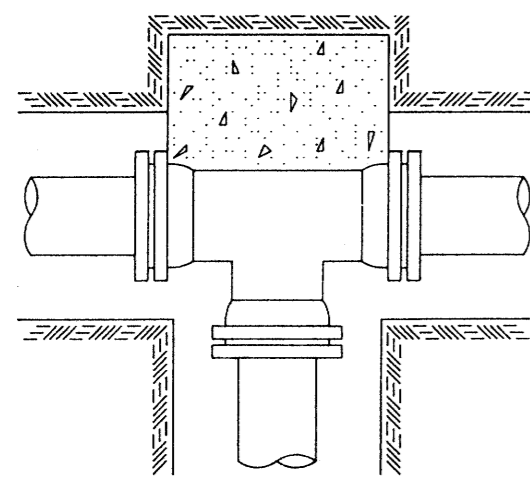


TYPICAL GRAVEL DRIVEWAY REPAIR

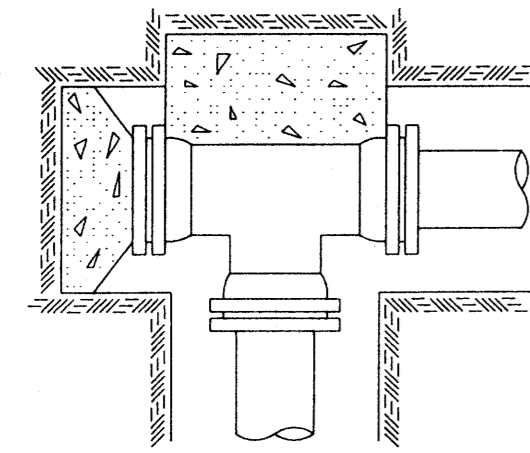


CHAIN LINK FENCE DETAIL
 N.T.S.

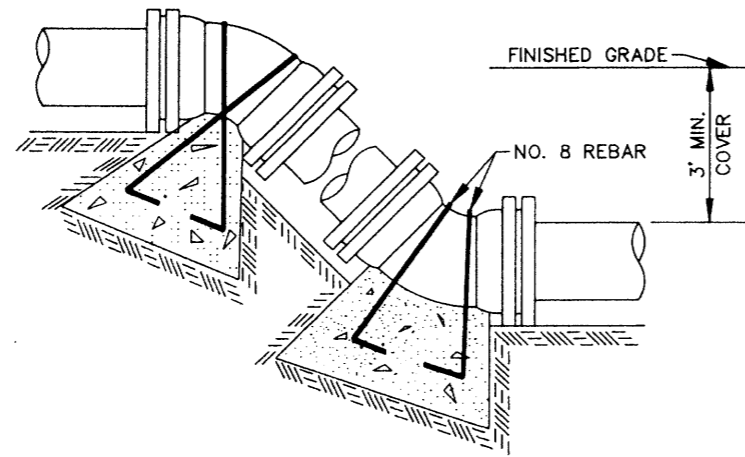
CITY OF RIDGELAND, MS.
STANDARD DETAILS



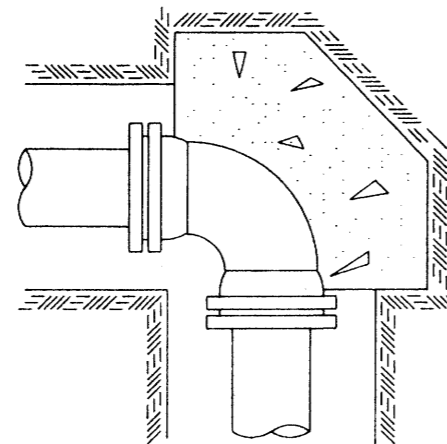
TEE



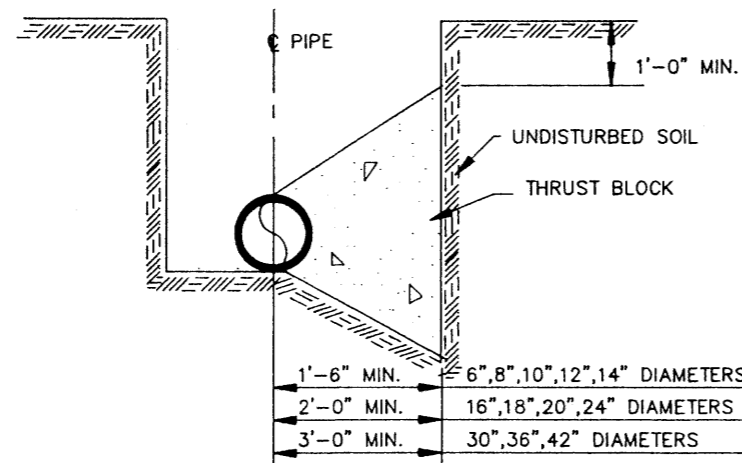
PLUGGED TEE



VERTICAL BENDS



90° BEND



TYPICAL CROSS SECTION

TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

N.T.S.
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH

BEARING AREA IN SQ. FT.

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	2.5	3.0	2.0	2.0	2.0
8	4.0	6.0	3.0	2.0	2.0
10	6.0	9.0	5.0	2.5	2.0
12	9.0	11.0	6.0	3.5	2.0
14	12.0	18.0	9.0	5.0	2.5
16	16.0	22.5	12.0	6.0	3.0
18	20.0	28.0	15.0	8.0	4.0
20	24.5	34.0	19.0	10.0	5.0
24	35.0	49.0	27.0	14.0	7.0
30	54.0	76.0	41.0	21.0	10.0
36	77.0	108.0	59.0	30.0	15.0
42	104.0	146.0	79.0	40.0	20.0

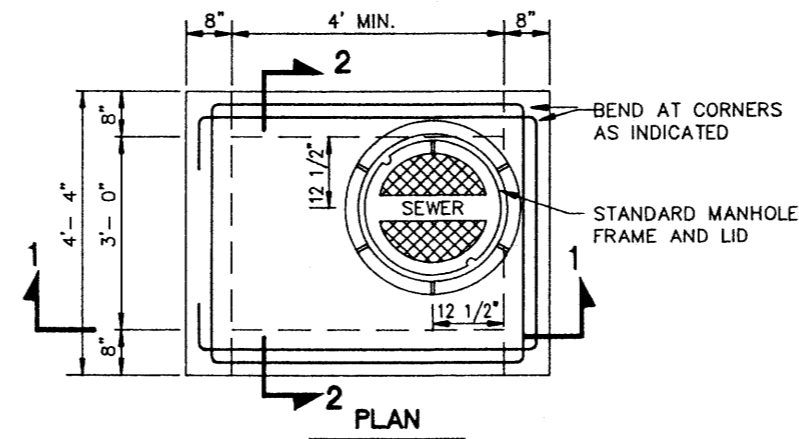
NOTE:
ABOVE VALUES CALCULATED USING P=100 AND ALLOWANCE. SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100.
FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1500/S.B.

VERTICAL BENDS

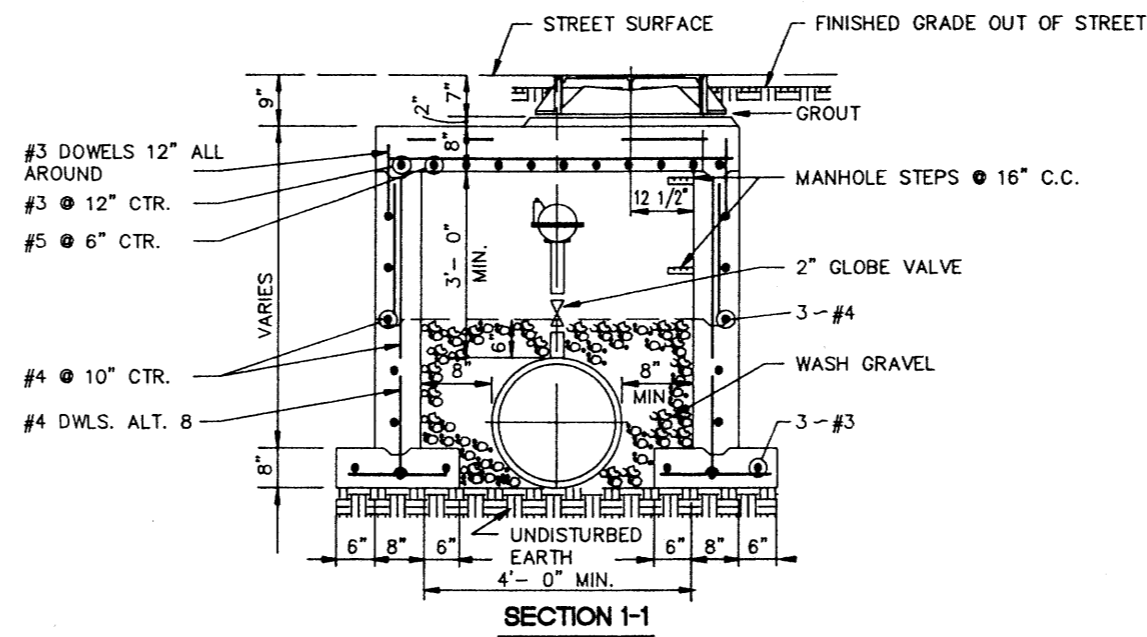
NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	—	—	26.0(1.0)	14.0(.5)	7.0(.3)
8	—	—	45.0(1.7)	25.0(.9)	13.0(.5)
10	—	—	68.0(2.5)	37.0(1.4)	19.0(.7)
12	—	—	97.0(3.6)	52.0(1.9)	27.0(1.0)
14	—	—	130(4.8)	70.0(2.6)	36.0(1.3)
16	—	—	168(6.2)	91.0(3.4)	46.0(1.7)
18	—	—	211(7.8)	114(4.2)	58.0(2.2)
20	—	—	259(9.6)	140(5.2)	72.0(2.6)
24	—	—	370(13.7)	200(7.4)	102(3.8)
30	—	—	568(21.1)	308(11.4)	156(5.8)
36	—	—	814(30.1)	440(16.3)	225(8.3)
42	—	—	1100(40.7)	595(22.0)	303(11.2)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

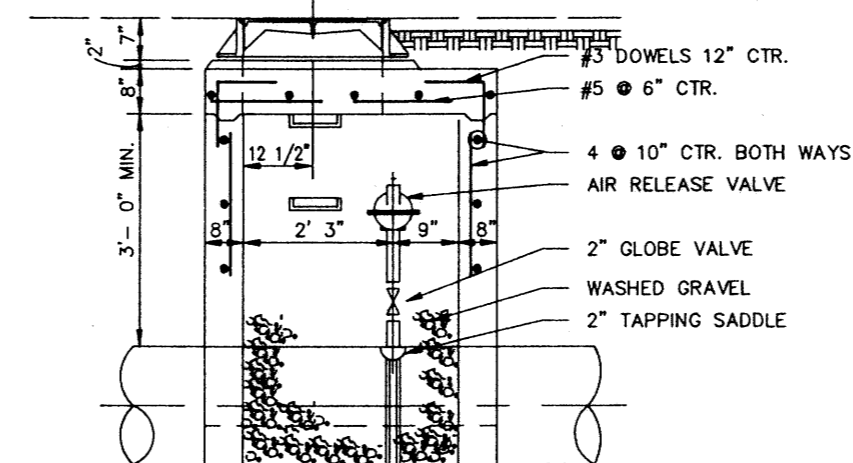
NOTE:
ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



PLAN



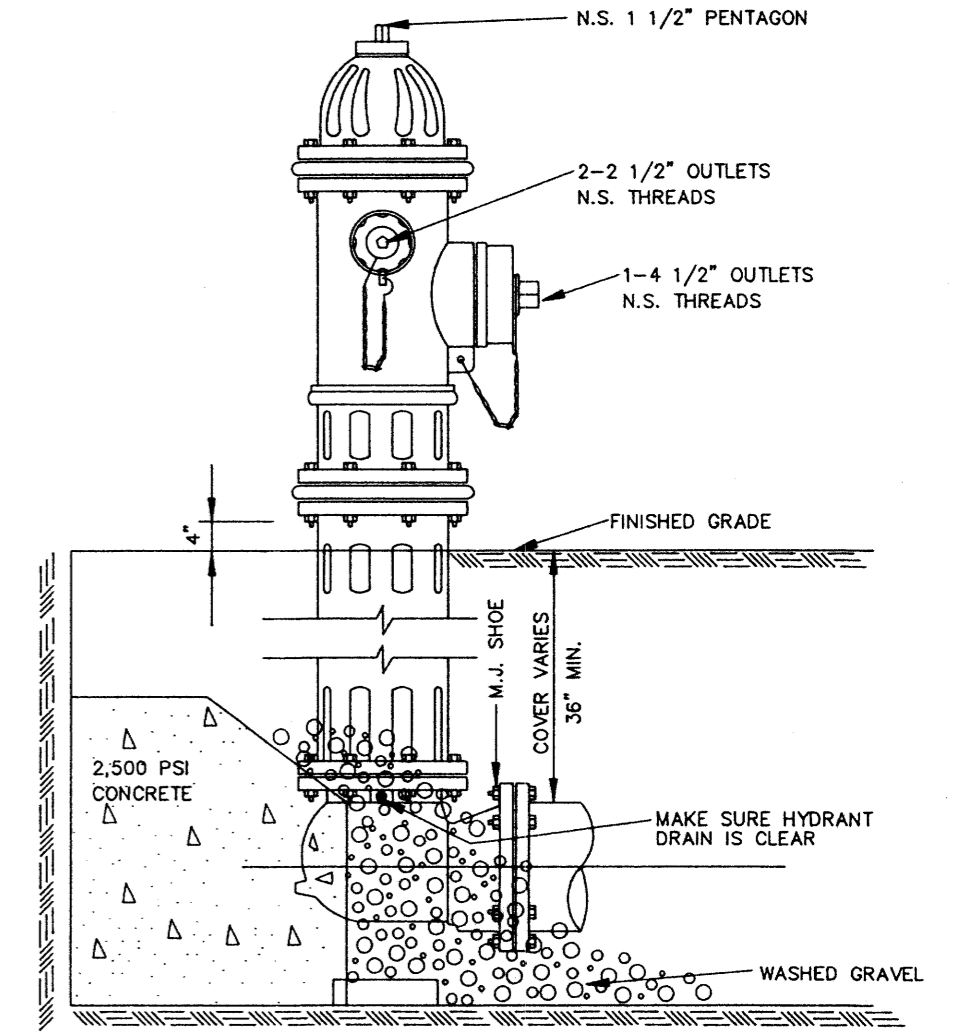
SECTION 1-1



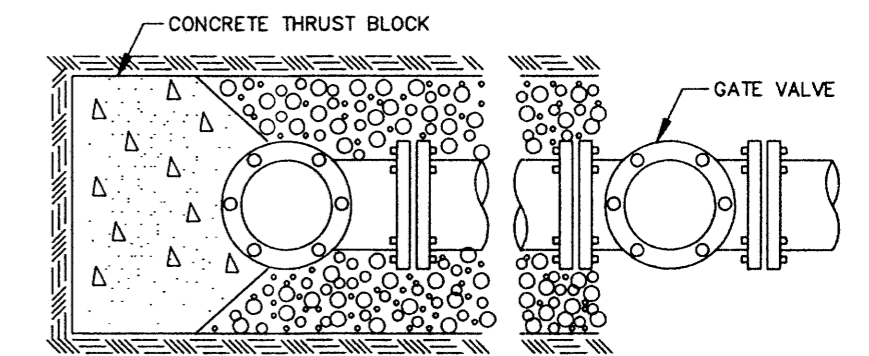
SECTION 2-2

TYPICAL AIR OR AIR VACCUUM RELEASE VALVE INSTALLATION WITH MANHOLE

NOT TO SCALE



ELEVATION

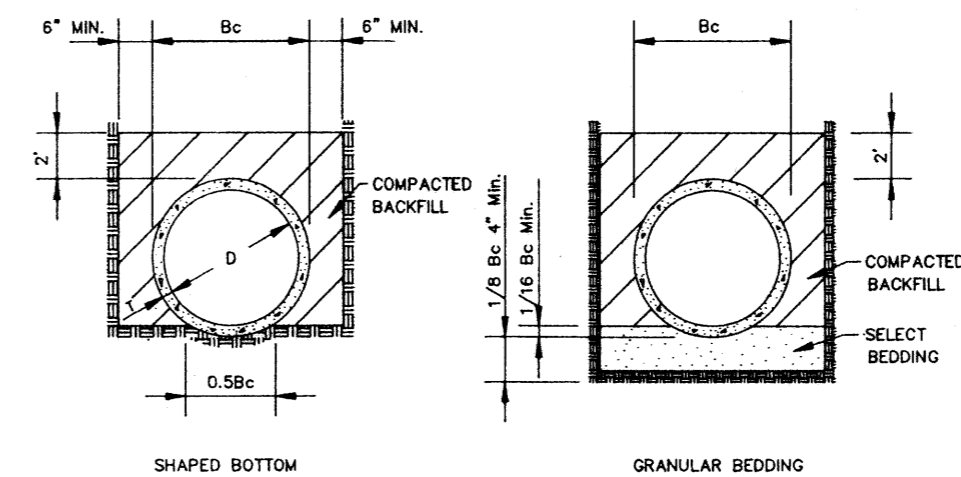


PLAN

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS. N.T.S.

ANCHOR COUPLINGS REQ'D.



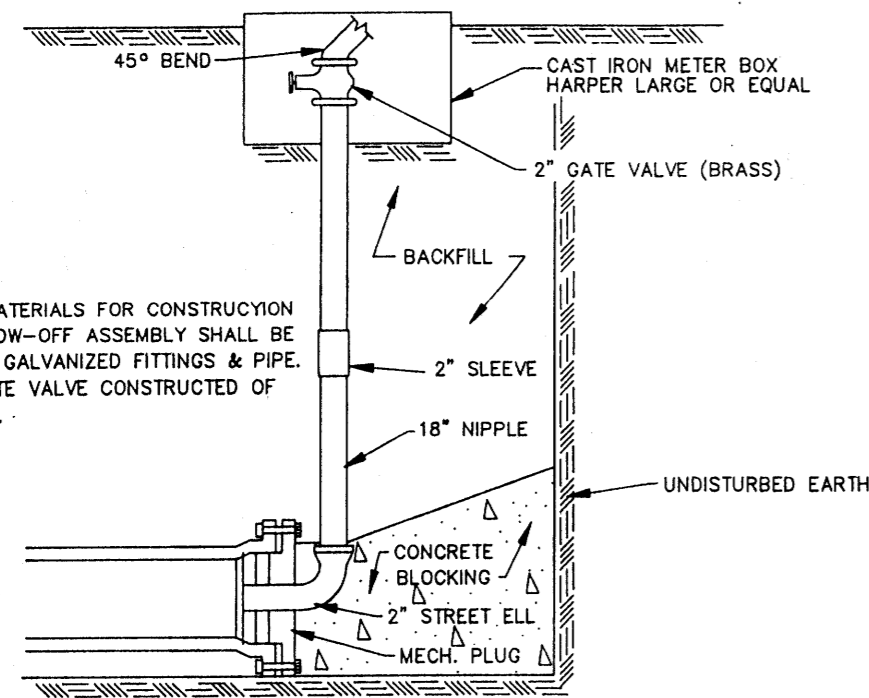
TYPICAL TRENCH DETAILS

N.T.S.

CITY OF RIDGELAND, MS.

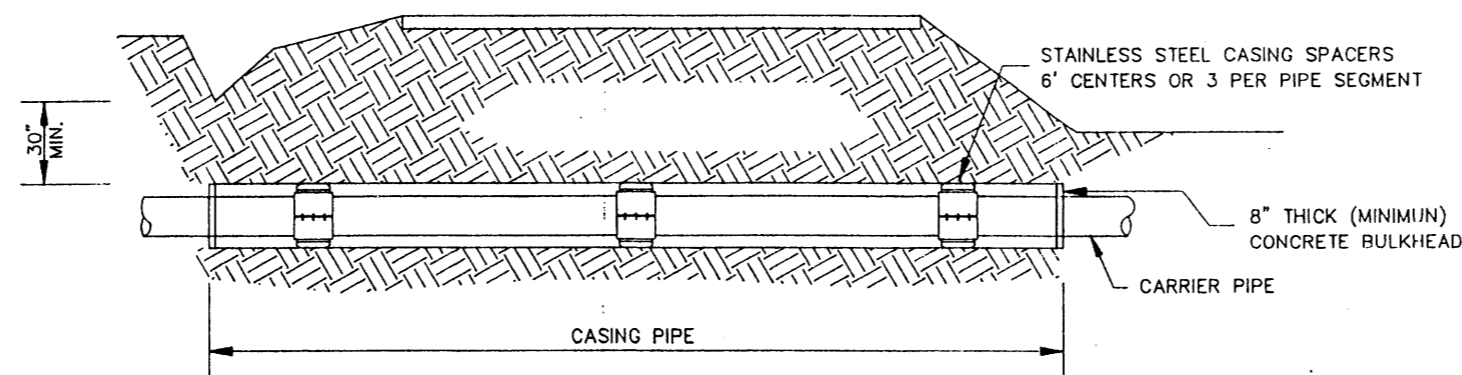
STANDARD DETAILS

DSGN:			DRAWING NO.
DRWN:			14
CHKD:			
SCALE:			

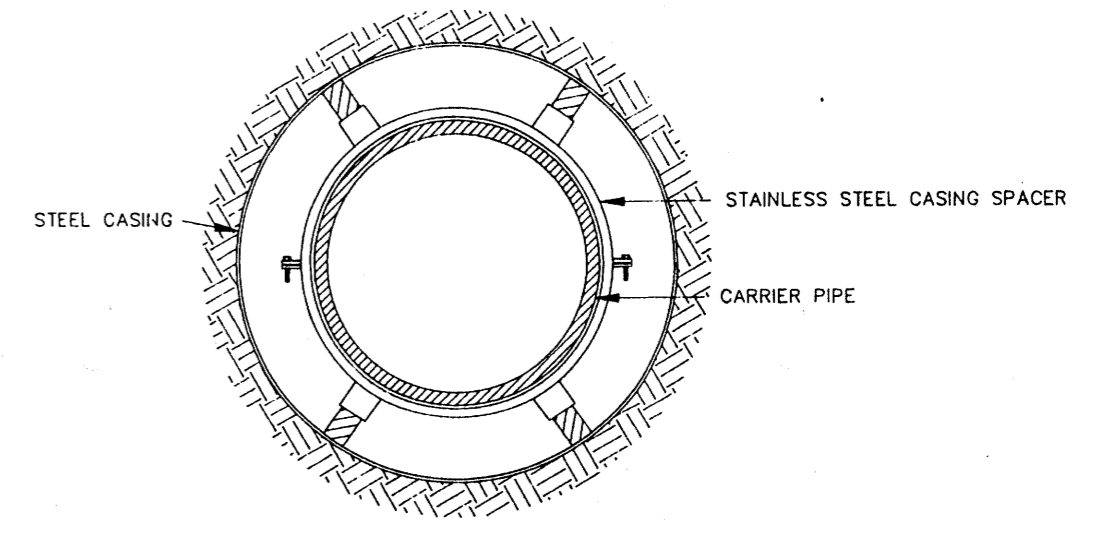


NOTE:
ALL MATERIALS FOR CONSTRUCTION OF BLOW-OFF ASSEMBLY SHALL BE OF 2" GALVANIZED FITTINGS & PIPE. 2" GATE VALVE CONSTRUCTED OF BRASS.

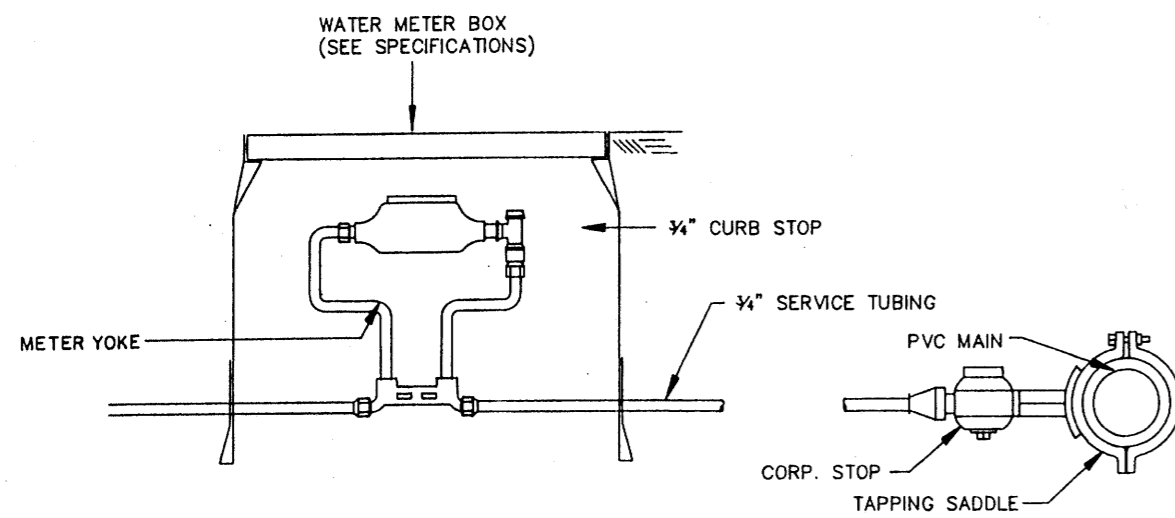
TYPICAL BLOW-OFF ASSEMBLY
N.T.S.



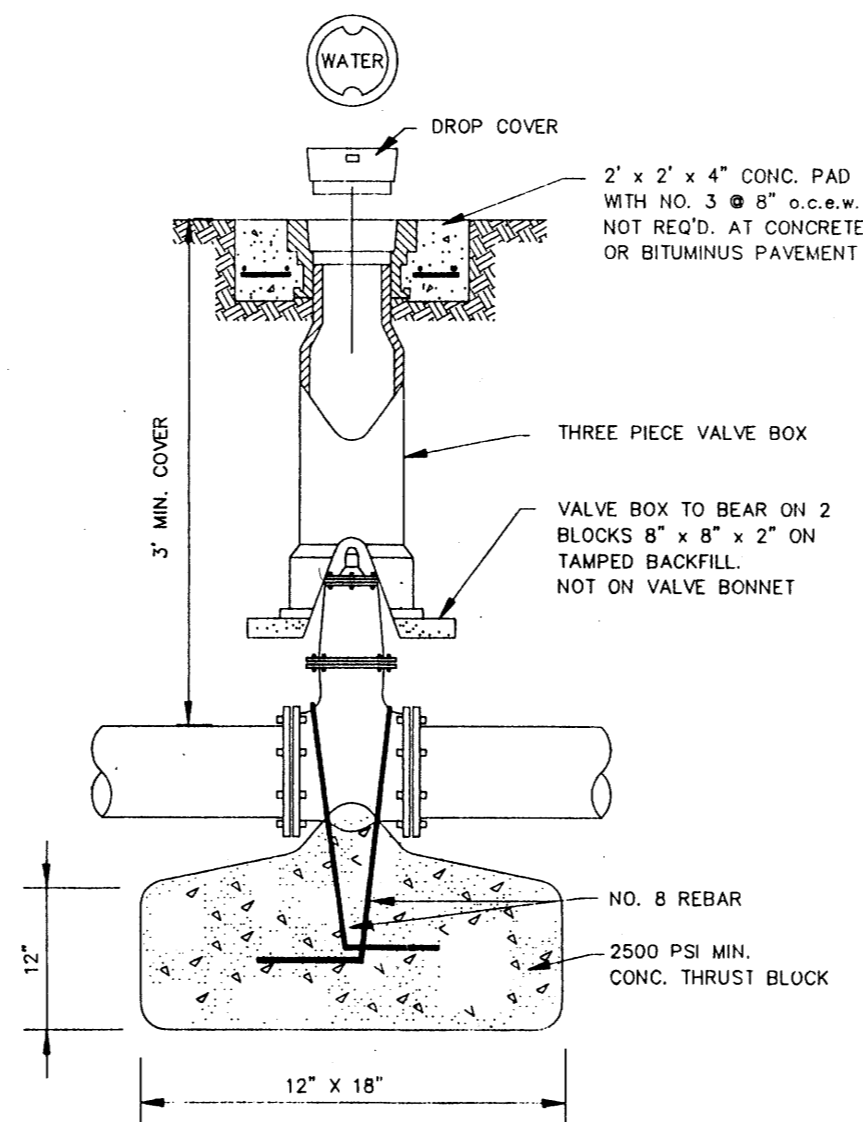
TYPICAL BORE SECTION
N.T.S.



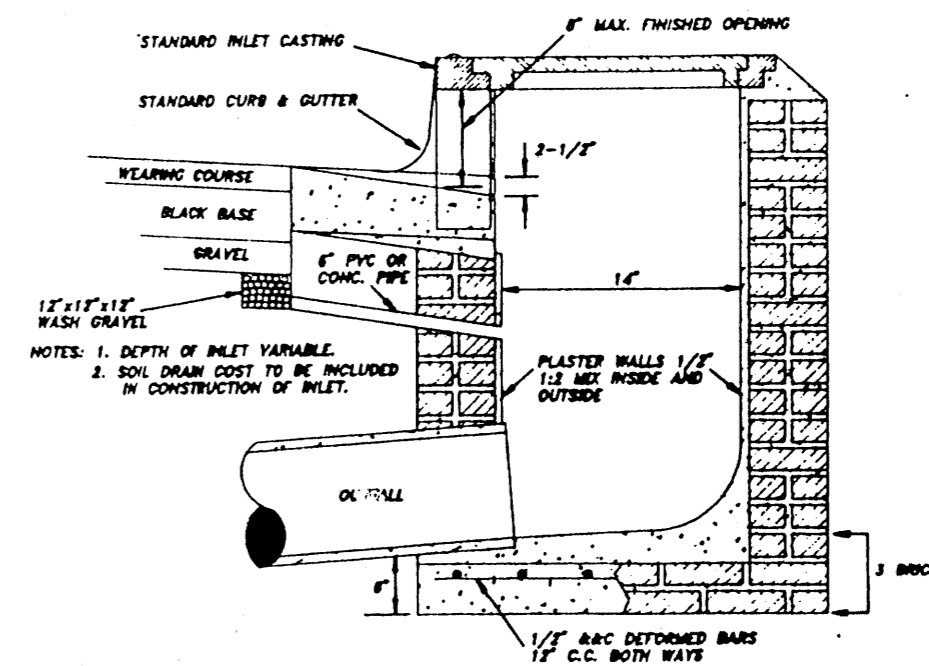
BORE SECTION
N.T.S.



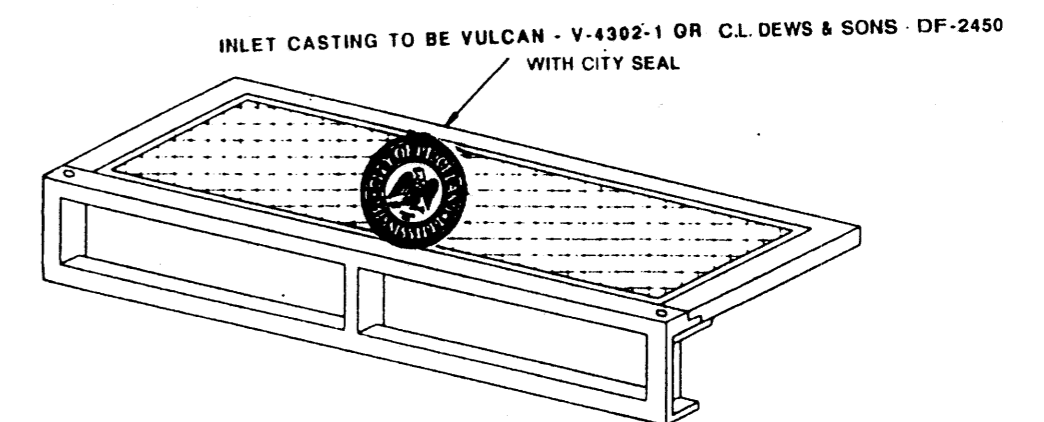
TYPICAL 3/4" WATER SERVICE
N.T.S.



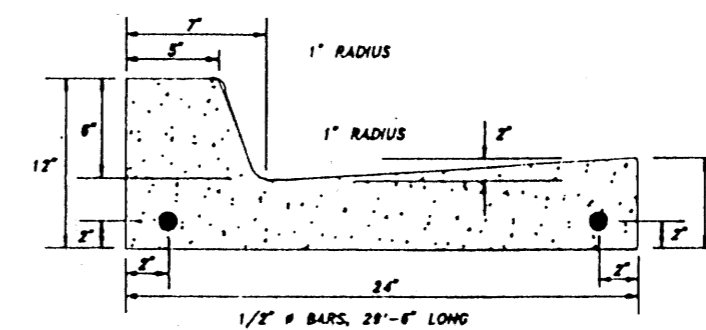
GATE VALVE DETAIL
N.T.S.



SECTION OF STANDARD CURB INLET



STANDARD CURB INLET CASTING



NOTES: 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 L.B. CONCRETE.
2. 2 - 3/4" DOWEL BARS, 15" LONG REQ'D. AT EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS AND 1/2" EXPANSION MATERIALS.

STANDARD CURB & GUTTER

CITY OF RIDGELAND, MS.

STANDARD DETAILS

DSGN:
DRWN:
CHKD:
SCALE:



DRAWING NO.

15

INCHES	OPENING		CONCRETE DEDUCTION PER OPENING (C.Y.)		
	HO	OP			
18x11	2.25	25.5x18.5	1.5	0.015	
22x13	2.5	30x21	1.5	0.045	
0.060	-	-	-	-	
0.076	29x18	3	38x27	1.5	0.073
0.095	-	-	-	-	-
0.116	36x23	3.5	46x33	1.5	0.108

MINIMUM PIPE DEPTH TOP OF COVER TO PIPE INVERT			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
-	-	-	-
12	27	-	-
15	30.5	18x11	23.5
18	33	22x13	25.5
21	35.5	-	-
24	40	29x18	30.5
27	44.5	-	-
30	46	36x23	35.5

INLET OR JUNCTION BOX	MAXIMUM PIPE SIZE			
	ROUND RCP		ARCH RCP	
	IW SIDE	IL SIDE	IW SIDE	IL SIDE
2X2	12	18	NONE	18X11
2X3	12	24	NONE	22X13
3X5	24	30	22X13	36X23

INLET OR JUNCTION BOX	CONCRETE QUANTITIES		
	BOTTOM C.Y.	RISER C.Y./FT	COVER C.Y.
2X2	0.074	0.099	0.123
2X3	0.111	0.181	0.201
3X5	0.279	0.275	0.266

NOTE: CONCRETE CUBIC YARDS PER INLET/JUNCTION BOX = BOTTOM + (TOTAL RISER HEIGHT (FT) x C.Y./FT) + (COVER - GRATE OPENING) - ANY HOLE OPENINGS

INLET OR JUNCTION BOX SIZE	WALL THICKNESS WT	INSIDE DIMENSION		OUTSIDE DIMENSION		BASE HEIGHT B	RISER HEIGHT R	WEIGHTS		
		IW	IL	OW	OL			BOTTOM LB	BASE/RISER LB/FT	COVER LB
2 X 2	3 1/2	24	24	31	31	24-54	18-48	300	401	500
2 X 3	5	24	36	34	46	24-54	18-48	450	735	815
3 X 5	5	36	60	46	70	24-54	18-48	1125	1114	1077

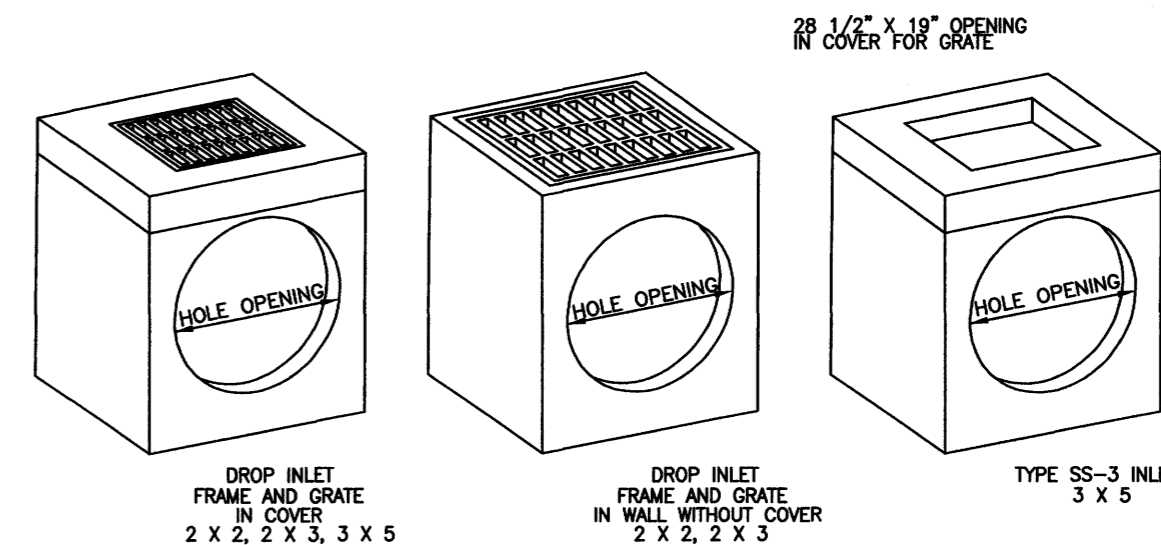
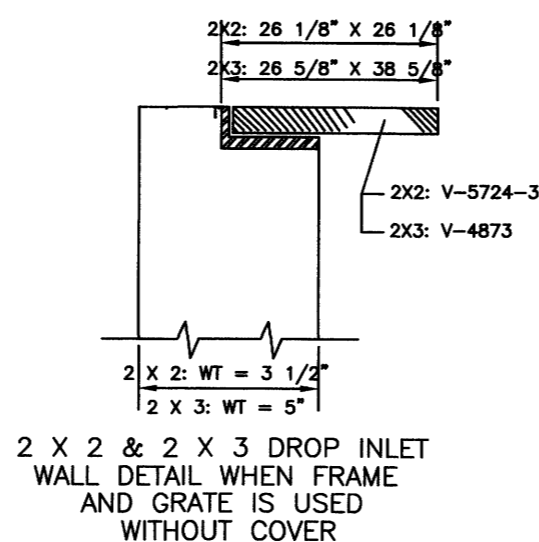
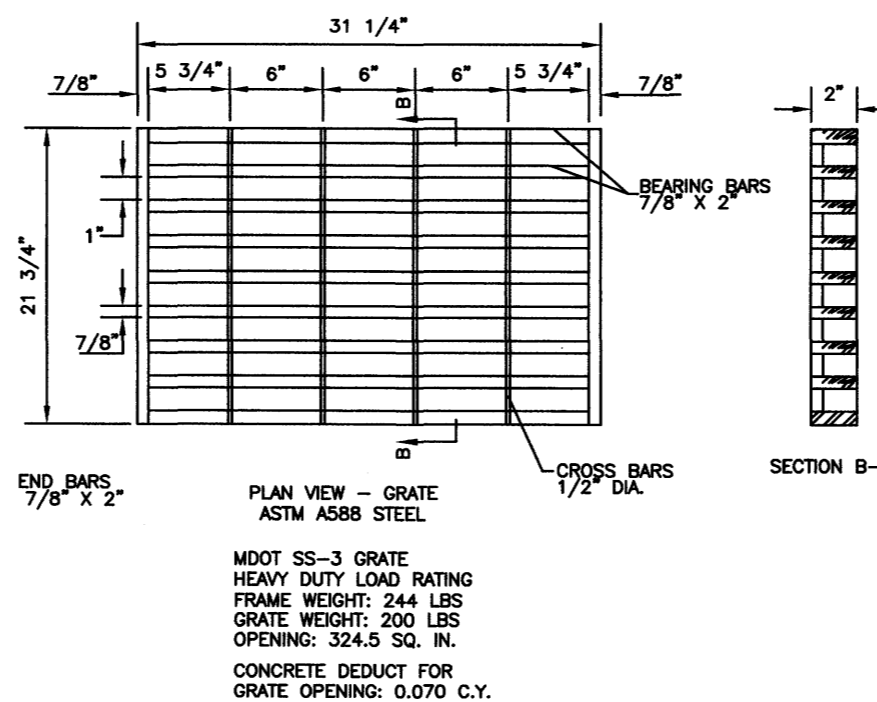
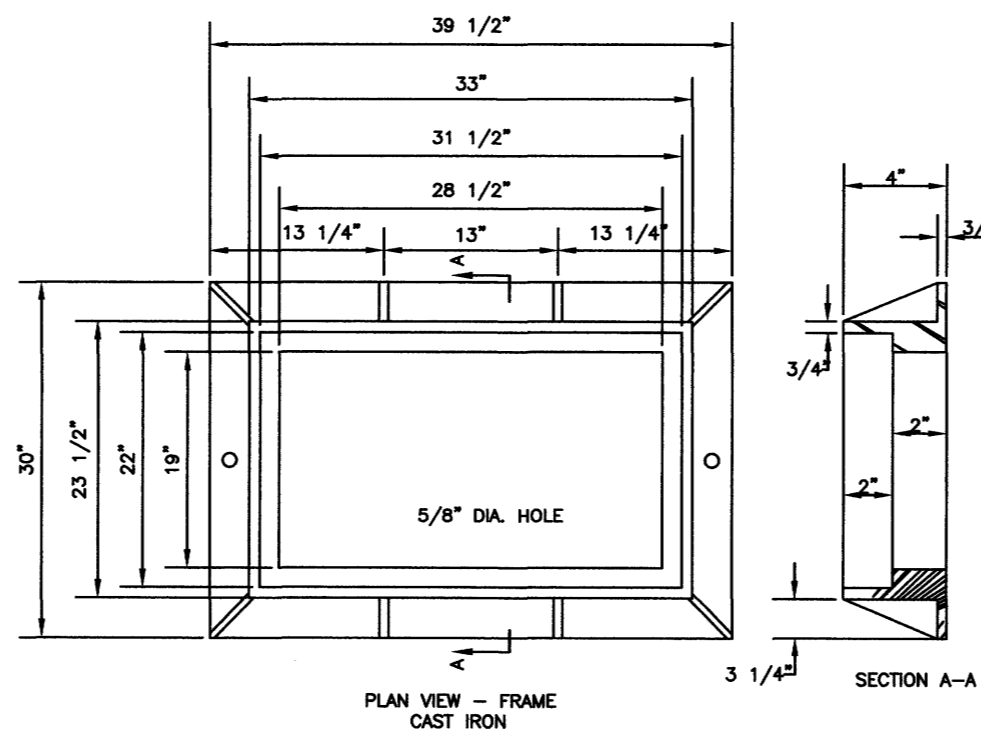
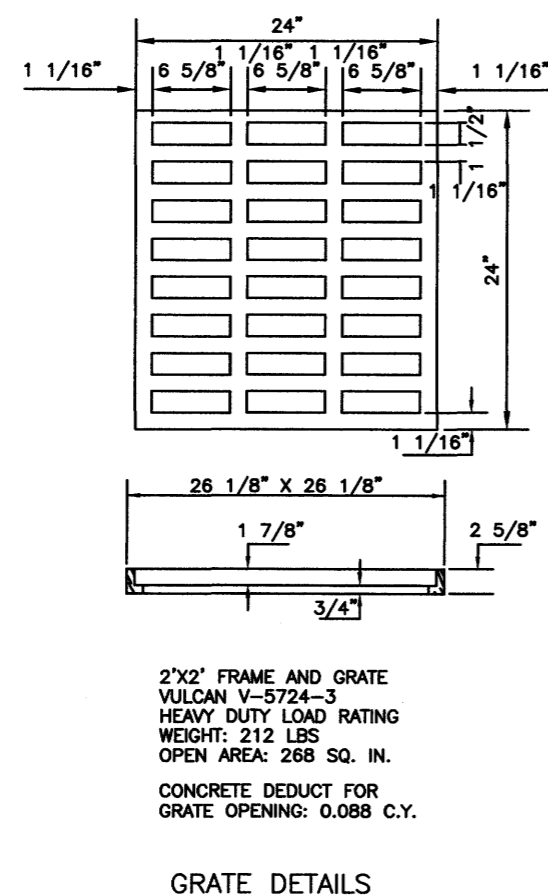
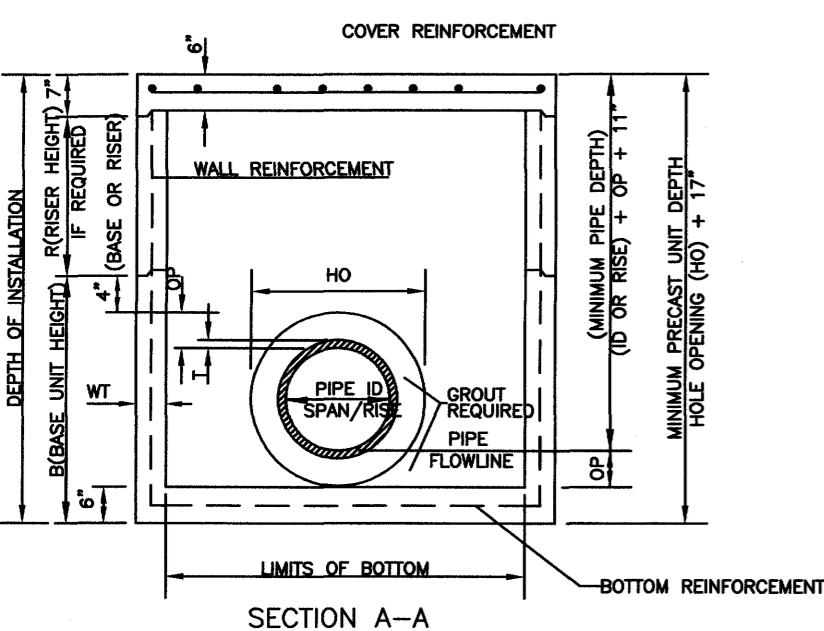
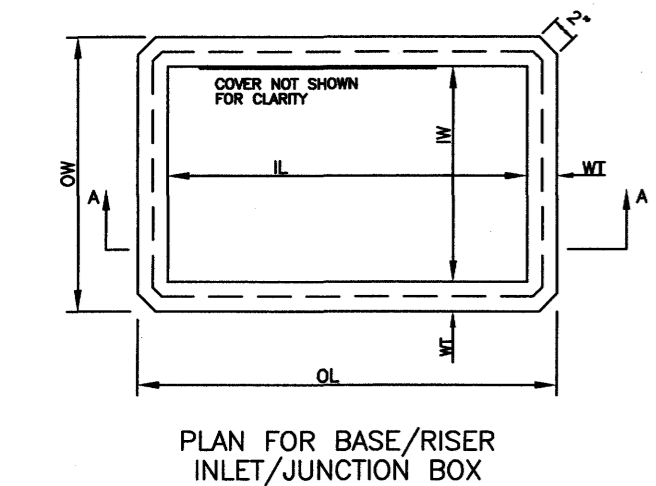
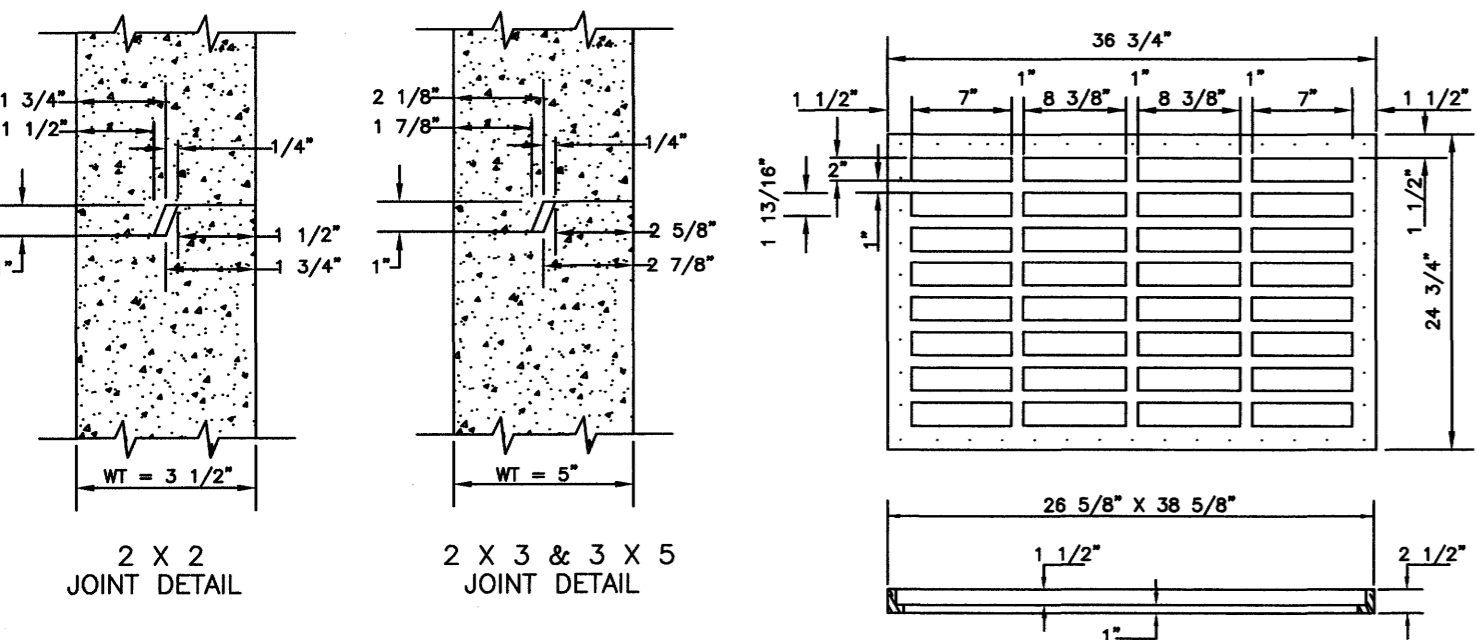
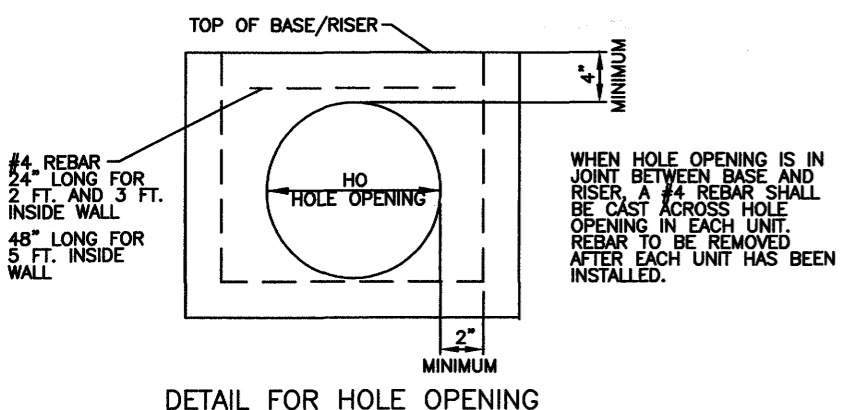
DEPTH OF INSTALLATION FT	2' x 2' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)											
	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-4	0.07	3.942	-	-	-	-	-	-	-	-	-	-
0-8	0.13	5.862	0.07	3.942	-	-	-	-	-	-	-	-
0-12	0.20	7.786	0.07	3.942	0.13	5.862	-	-	-	-	-	-

DEPTH OF INSTALLATION FT	2' x 3' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)											
	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-4	0.10	5.840	-	-	-	-	-	-	-	-	-	-
0-8	0.20	9.928	0.10	5.840	-	-	-	-	-	-	-	-
0-12	0.25	5.545	0.10	5.840	0.20	9.928	-	-	-	-	-	-

DEPTH OF INSTALLATION FT	3' x 5' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)											
	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-8	0.30	21.039	0.24	17.3264	-	-	-	-	-	-	-	-
0-12	0.74	53.570	0.24	17.3264	0.60	43.316	-	-	-	-	-	-
0-16	0.88	61.526	0.24	17.3264	0.60	43.316	0.74	53.570	-	-	-	-
0-20	1.14	78.146	0.24	17.3264	0.60	43.316	0.74	53.570	1.02	70.013	-	-
0-24	1.44	98.654	0.24	17.3264	0.60	43.316	0.74	53.570	1.02	70.013	1.20	82.035

INLET OR JUNCTION BOX	COVER/BOTTOM REINFORCEMENT			
	COVER	LBS/STEEL	BOTTOM	LBS/STEEL
2X2	#4 @ 9" EW	12.247	WWF-W6.0 X W6.0 - 3 X 3	10.559
2X3	#4 @ 9" EW	17.859	WWF-W6.0 X W6.0 - 3 X 3	16.602
3X5	#4 @ 9" EW	36.741	WWF-W6.0 X W6.0 - 3 X 3	37.208

NOTE: REINFORCEMENT STEEL (LBS PER INLET/JUNCTION BOX) = BOTTOM + TOTAL FOR EACH RISER (TOP PLUS ANY INTERIOR RISERS) (BASE HEIGHT + TOTAL HEIGHT OF RISER) + COVER; HOLE AND GRATE OPENINGS NOT DEDUCTED



- GENERAL NOTES:
- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM AT 28 DAYS.
 - REINFORCING FOR BOTTOM AND WALLS SHALL BE WELDED WIRE FABRIC, ASTM A-185, AND OF THE AREA AS SHOWN IN TABLE.
 - REINFORCING FOR COVER SHALL BE WITH DEFORMED BARS, ASTM A615/A AND OF THE SIZE AS SHOWN IN TABLE.
 - JOINT TO BE SEALED WITH PREFORMED JOINT COMPOUND, AASHTO SPECIFICATION M-198.
 - 2 1/2" LIFTING HOLES TO BE LOCATED ON EACH SIDE OF BOX SECTIONS FOR HANDLING.
 - GROUT FOR JOINING PIPE TO PRECAST UNITS WILL BE A COMMERCIAL MASONRY GROUT MEETING SPECIFICATIONS.
 - WHEN INTERIOR RISER UNITS ARE REQUIRED, UNITS SHALL BE MARKED TO IDENTIFY EACH UNIT.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
DATE	REVISION	PRECAST UNITS JUNCTION BOX, TYPE SS-3, AND DROP PRECAST INLET (30" CONCRETE ROUND PIPE AND UNDER) (36" x 23" CONCRETE ARCH PIPE AND UNDER)	
FILENAME:	PRECASJUB1.DWG	WORKING NUMBER	PCU-1
DESIGN TEAM	CHECKED	SHEET NUMBER	15A

GENERAL DATA												
SS-2 INLET SIZE	WALL THICKNESS WT	INSIDE DIMENSION		OUTSIDE DIMENSION		BASE HEIGHT B	RISER HEIGHT R	WEIGHTS				
		IW	IL	OW	OL			BOTTOM	BASE/RISER	INLET TOP	EXTENSION	EXTENSION TOP
FEET	INCHES	INCHES	INCHES	INCHES	INCHES	3" INCREMENTS		LB	LB/FT	LB	LB	LB
3 X 5	5	36	60	46	70	24-54	18-48	1125	1114	1880	1865	1070

3' x 5' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-8	0.30	38.969	0.24	29.575								
0-12	0.60	78.867	0.24	29.575	0.60	78.867						
0-16	0.88	110.005	0.24	29.575	0.60	78.867	0.74	95.338				
0-20	1.18	139.340	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672		
0-24	1.44	176.008	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	1.20	146.673

CONCRETE QUANTITIES				
SS-2 INLET SIZE	BOTTOM C.Y.	RISER C.Y./FT	TOP C.Y.	EXTENSION C.Y.
3X5	0.279	0.275	0.464	0.724

BOTTOM/TOP/EXTENSION REINFORCEMENT				
SS-2 INLET SIZE	BOTTOM REINFORCEMENT	BOTTOM LB/STEEL	TOP LB/STEEL	EXTENSION LB/STEEL
3X5	#4 @ 9" EW	38.550	116.496	38.305

NOTES: CONCRETE CUBIC YARDS PER INLET = BOTTOM + (TOTAL RISER HEIGHT (FT.) x C.Y./FT.) + TOP EXTENSION INCLUDES CURB INLET UNIT + TOP + EXTENSIONS - ANY HOLE OPENINGS EXTENSION BLOCKOUT OPENINGS

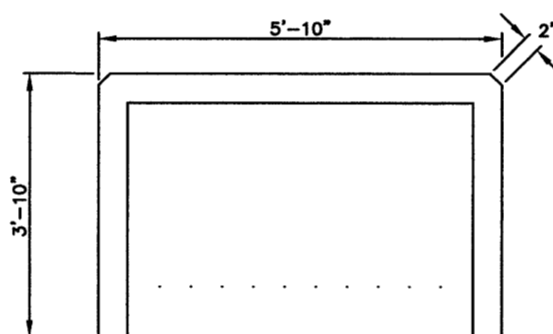
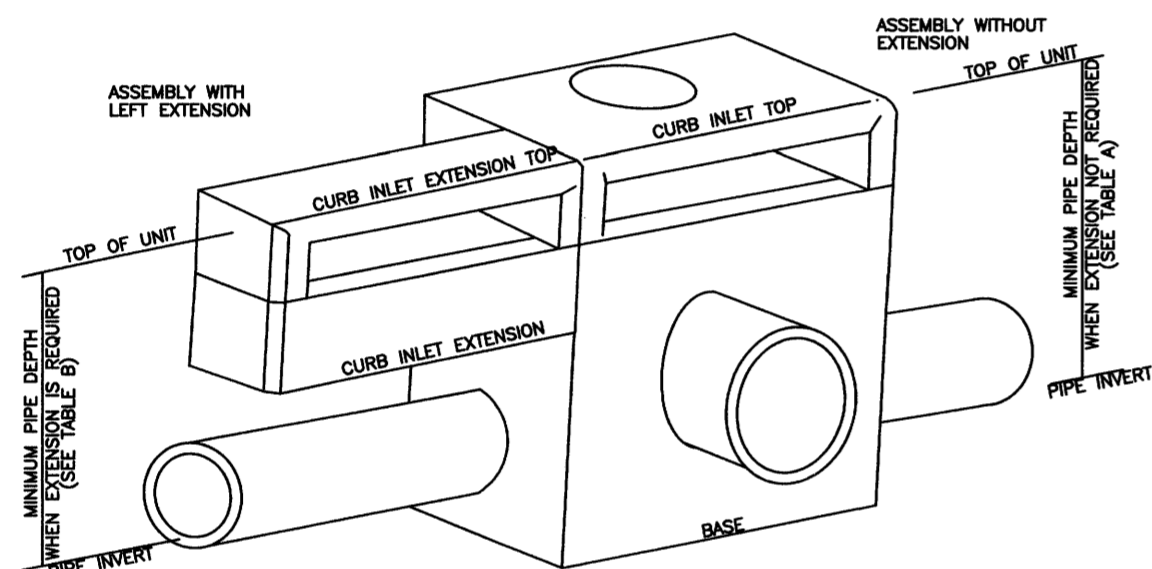
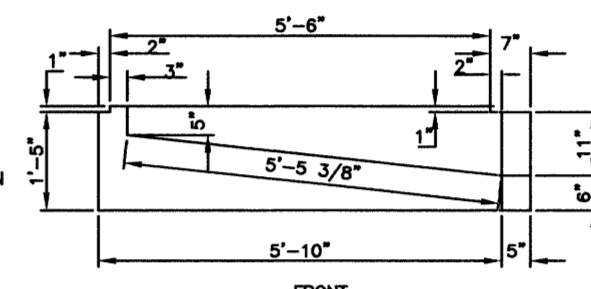
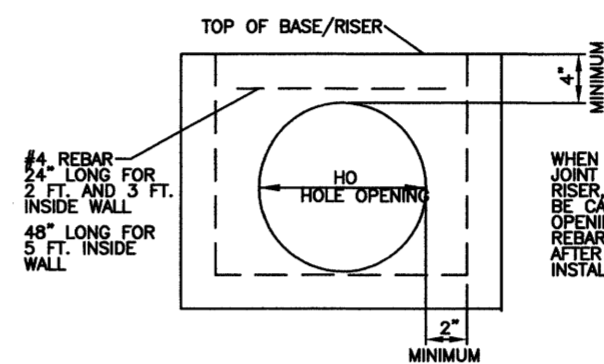
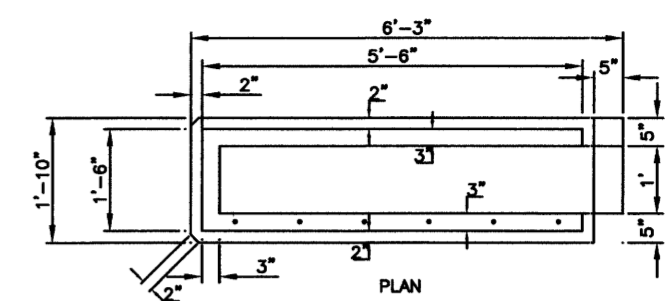
NOTE: *EXTENSION INCLUDES CURB INLET UNIT PLUS TOP

MINIMUM PIPE DEPTH WITHOUT EXTENSION TOP OF CURB UNIT TO PIPE INVERT TABLE A			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
12	36		
15	39.5	18x11	32.5
18	42	22x13	34.5
21	44.5		
24	49	29x18	39.5
27	53.5		
30	55	36x23	44.5

MINIMUM PIPE DEPTH WITH EXTENSION TOP OF CURB UNIT TO PIPE INVERT TABLE B			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
12	55		
15	58	18x11	55
18	61	22x13	58
21	64		
24	67		
27	72		
30			

NOTE: BLANK SPACES IN TABLES INDICATE PIPE WILL NOT FIT INTO SIDE OF BOX OR PIPE SIZE IS NOT AVAILABLE.

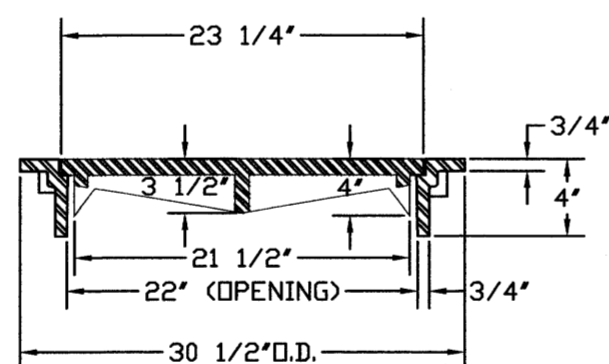
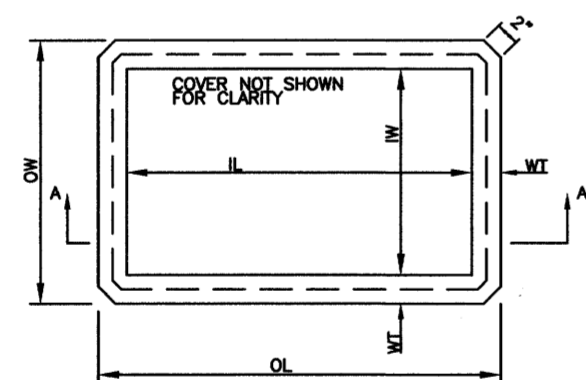
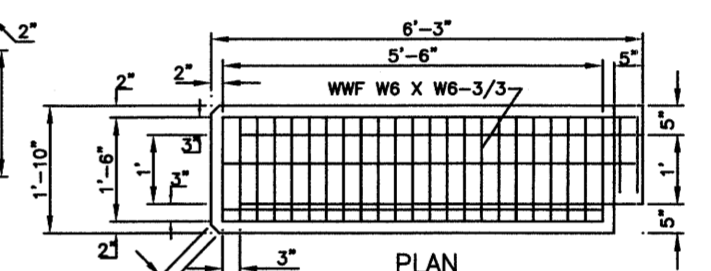
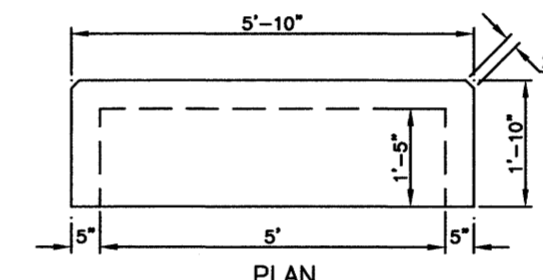
HOLE OPENING									
ROUND RCP SIZE	OPENING			ARCH RCP SIZE	OPENING			CONCRETE DEDUCTION PER OPENING (C.Y.)	
	INCHES	HO	OP		INCHES	HO	OP		
12	2	20	4	0.017					
15	2.25	24	4.5	0.032	18x11	2.25	25.5x18.5	1.5	0.015
18	2.5	26	4	0.045	22x13	2.5	30x21	1.5	0.045
21	2.75	28	3.5	0.060					
24	3	32	4	0.076	29x18	3	38x27	1.5	0.073
27	3.25	40	6.5	0.095					
30	3.5	40	5	0.116	36x23	3.5	46x33	1.5	0.108



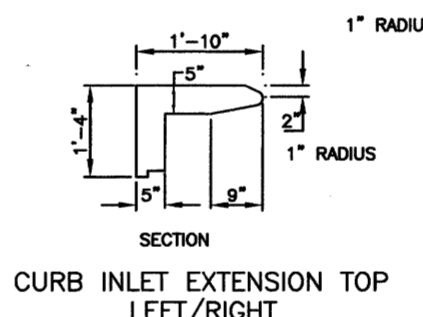
DETAIL FOR HOLE OPENING

CURB INLET EXTENSION LEFT/RIGHT

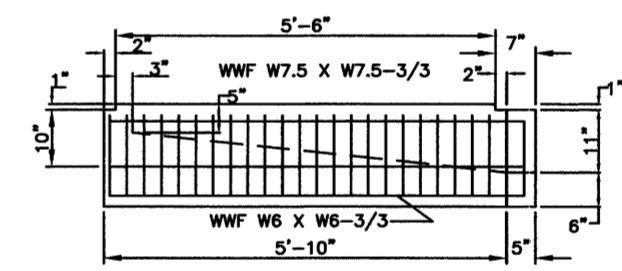
ISOMETRIC VIEW OF PRECAST UNIT



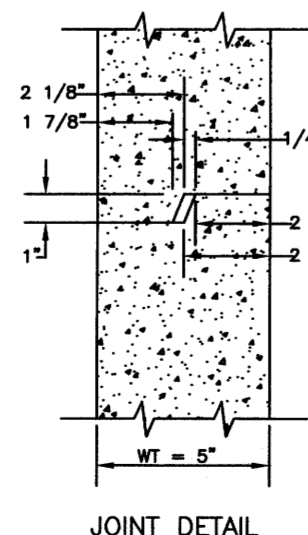
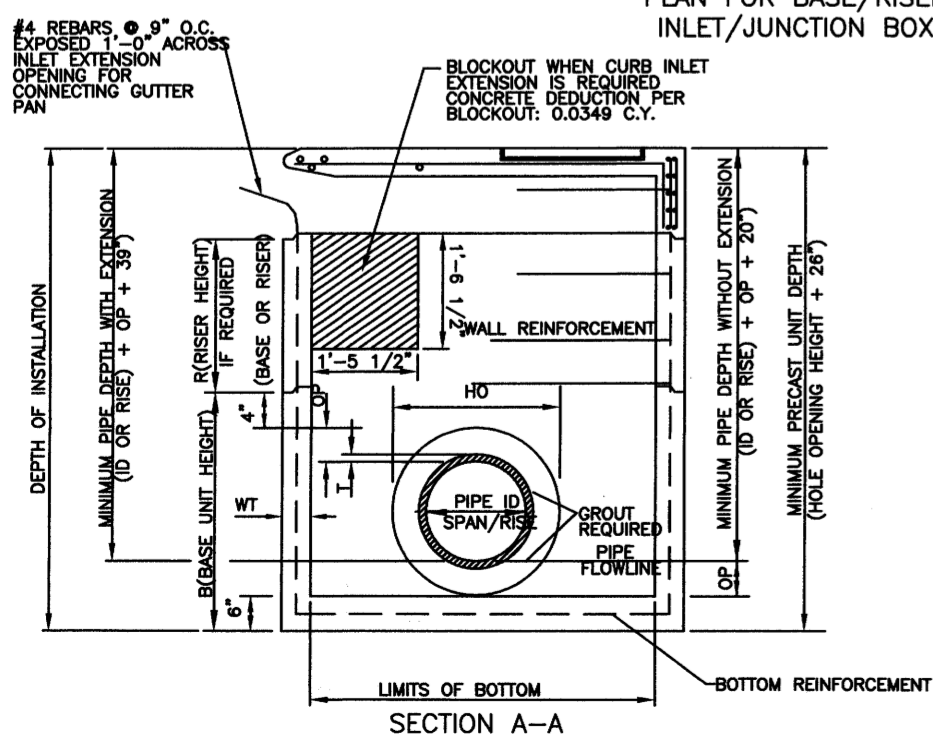
CURB INLET TOP



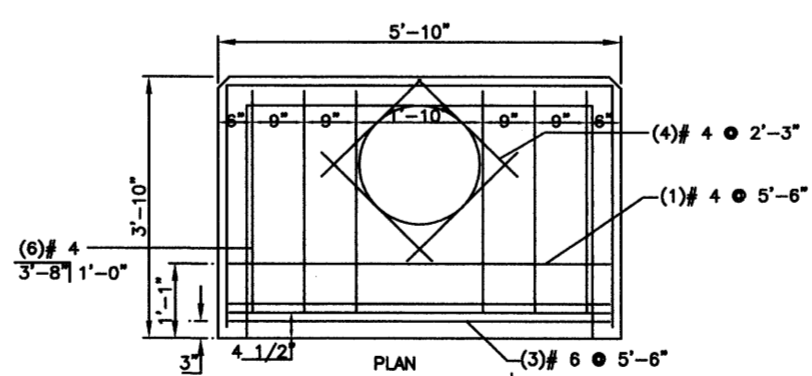
CURB INLET EXTENSION TOP LEFT/RIGHT



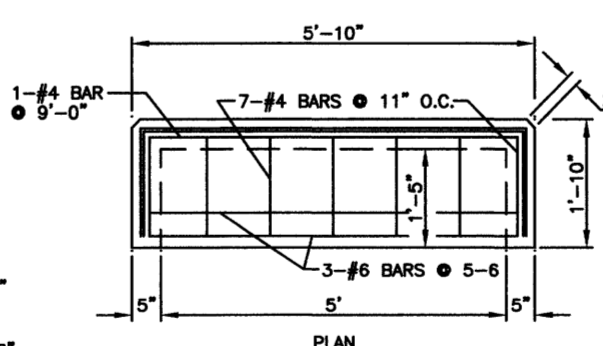
REINFORCEMENT CURB INLET EXTENSION LEFT/RIGHT



DEWS DF-22TF MANHOLE RING & COVER (TOP FLANGE)



REINFORCEMENT CURB INLET TOP

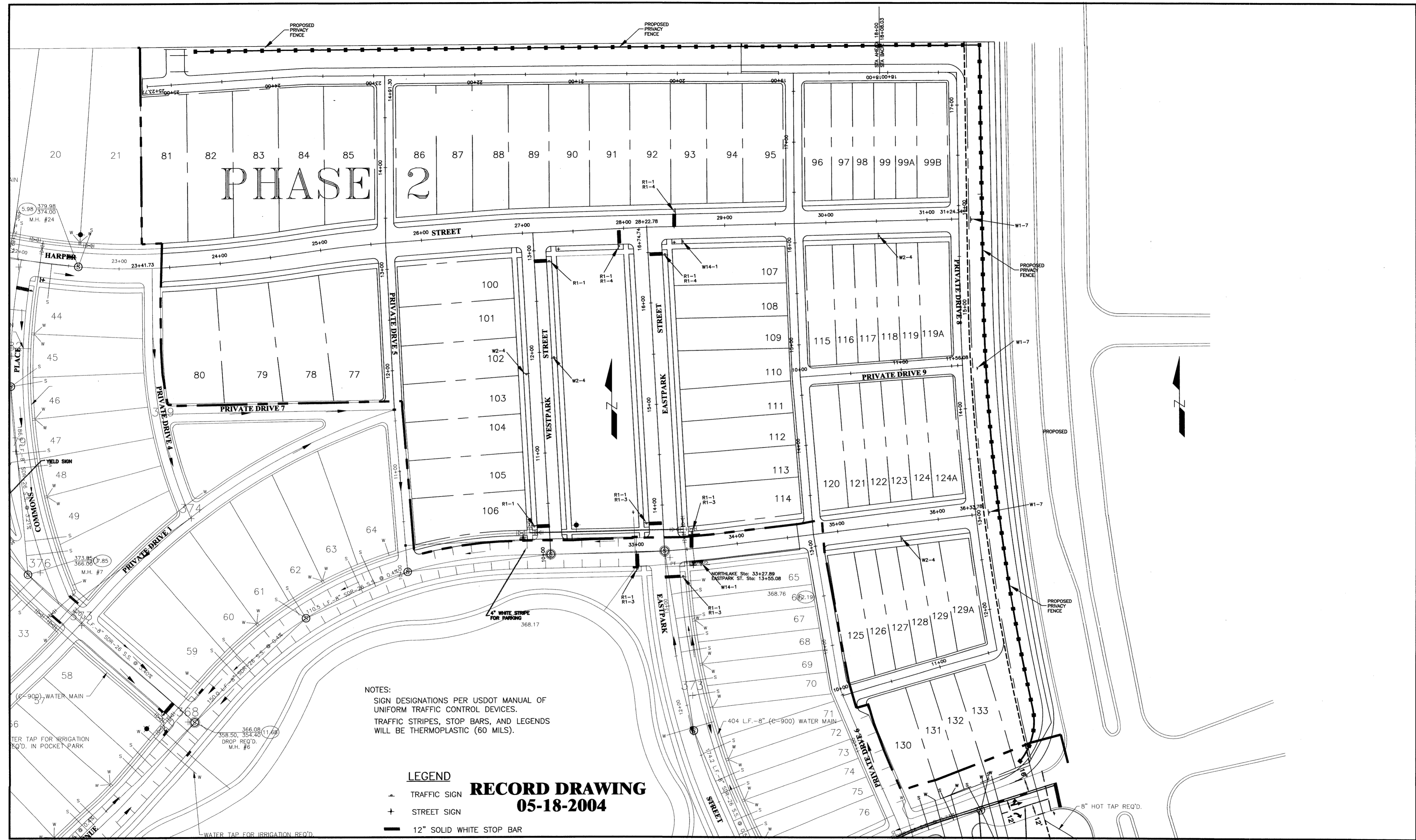


REINFORCEMENT CURB INLET EXTENSION TOP LEFT/RIGHT

GENERAL NOTES:

- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM AT 28 DAYS.
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- REINFORCING FOR COVER SHALL BE WITH DEFORMED BARS, ASTM A615/A AND OF THE SIZE AS SHOWN IN TABLE.
- JOINT TO BE SEALED WITH PREFORMED JOINT COMPOUND, AASHTO SPECIFICATION M-198.
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- WHEN INTERIOR RISER UNITS ARE REQUIRED, UNITS SHALL BE MARKED TO IDENTIFY EACH UNIT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
PRECAST UNITS			
SS-2 PRECAST INLET			
(30" CONCRETE ROUND PIPE AND UNDER)			
(36" x 23") CONCRETE ARCH PIPE AND UNDER			
DATE	DESIGN TEAM	CHECKED	DATE
FILENAME	PRECASTSS2.DWG		
WORKING NUMBER	PCU-2		
SHEET NUMBER	15B		



NOTES:
 SIGN DESIGNATIONS PER USDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 TRAFFIC STRIPES, STOP BARS, AND LEGENDS WILL BE THERMOPLASTIC (60 MILS).

LEGEND
 ▲ TRAFFIC SIGN
 + STREET SIGN
 — 12" SOLID WHITE STOP BAR

RECORD DRAWING
05-18-2004

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 CONSULTING ENGINEERS ... CITY, COUNTY, AND REGIONAL PLANNERS
 395 EDGEWOOD TERRACE
 JACKSON, MS 39206

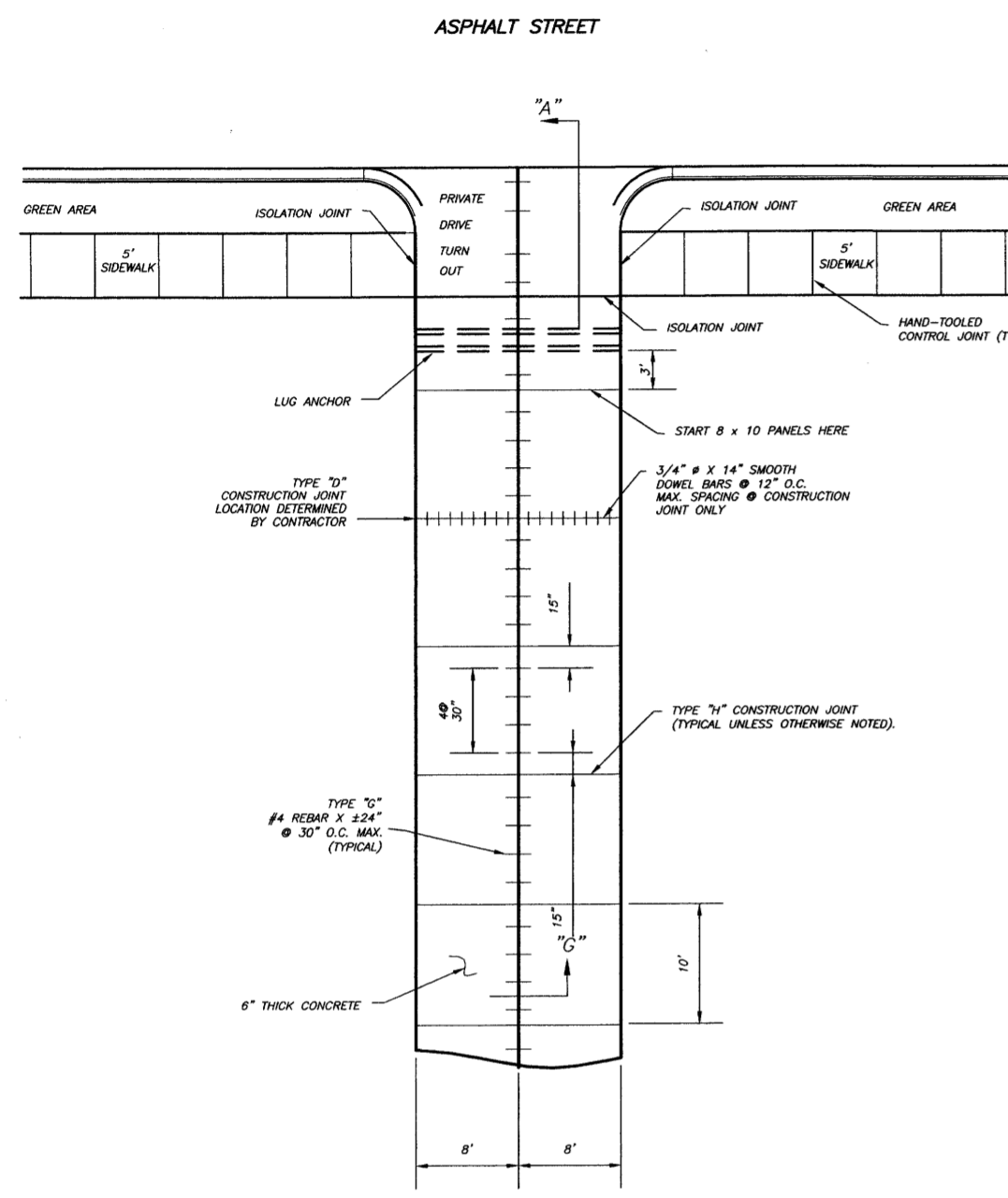
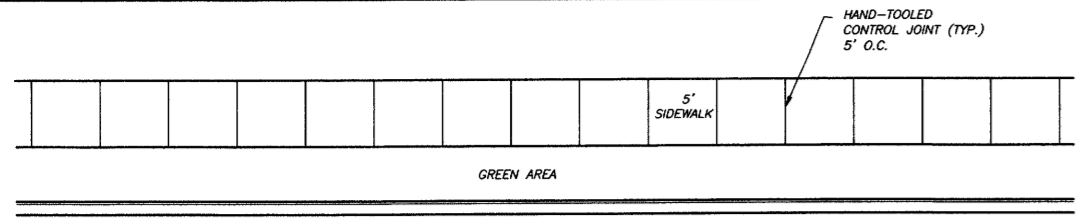
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THE TOWNSHIP AT COLONY PARK, PART 2
RIDGELAND, MISSISSIPPI

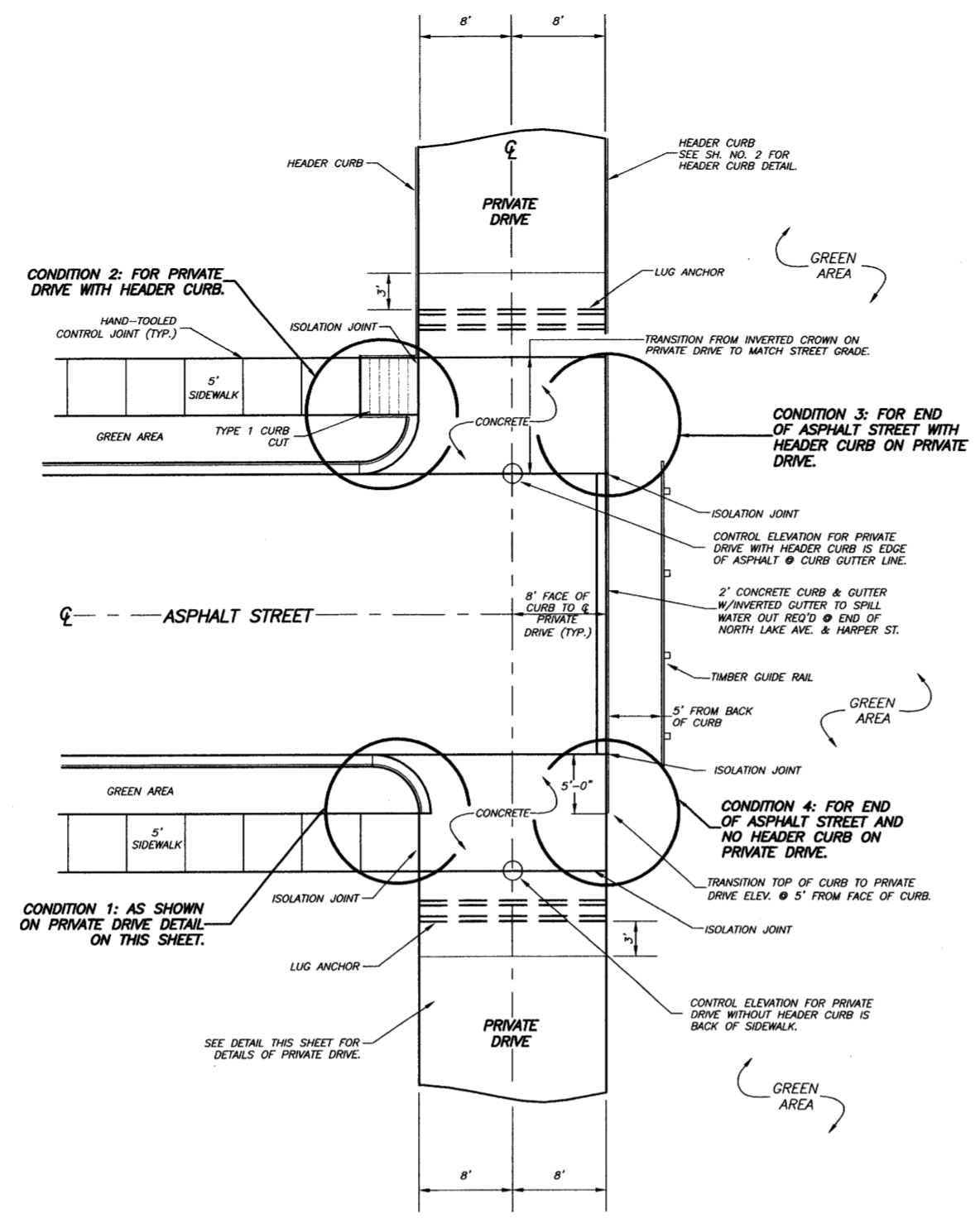
REVISIONS		
NO.	DATE	BY
1		
2		
3		
4		
5		
6		

SCALE: 1" = 40'
 DATE:
 APPROVED BY: **DSB**
 DRAWN BY: **MEF**
 CHECKED BY: **DSB**

SHEET TITLE:
STOP BARS, STRIPING, AND STREET SIGNS
 FILE NAME: SHEET NO. **16**

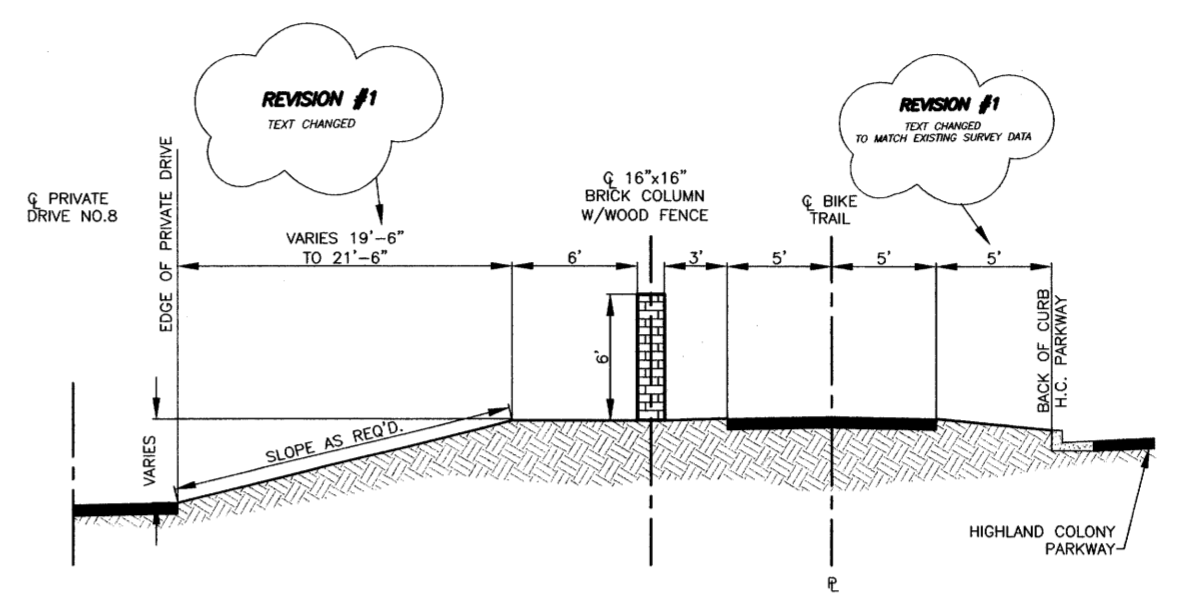


PRIVATE DRIVES

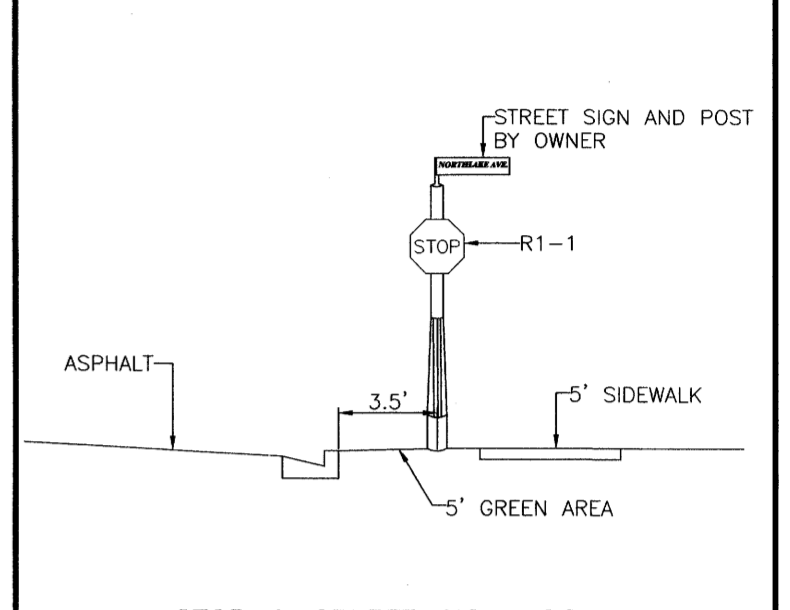


SPECIAL PRIVATE DRIVE & STREET INTERSECTION

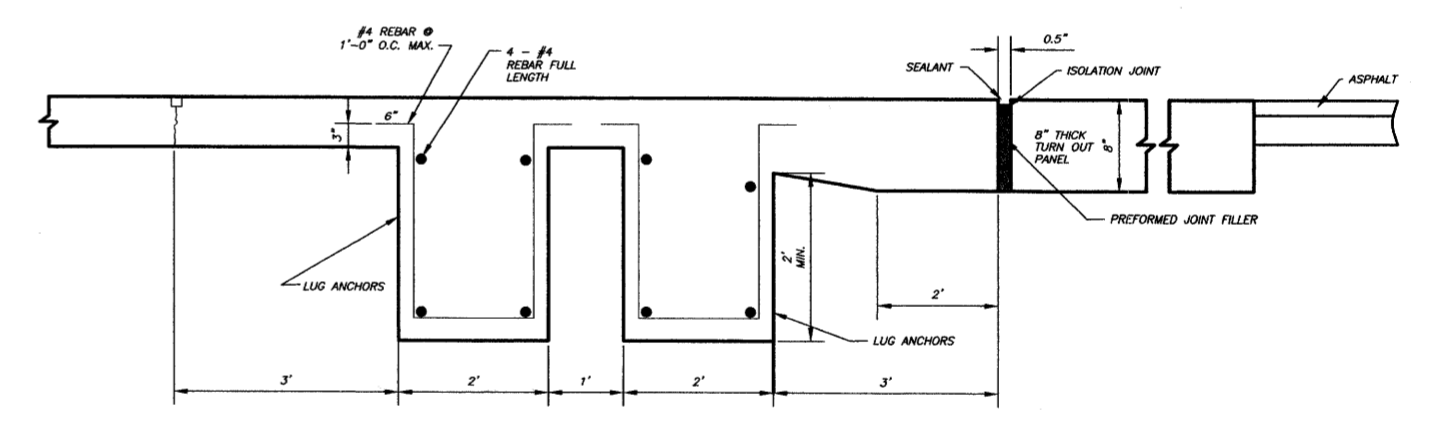
- PRODUCT SPECIFICATIONS:**
 REFERENCE: MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 1990 EDITION
- SEALANT SHALL BE SILICONE TYPE CONFORMING TO THE REQUIREMENTS OF SECTION 707.02.1.4, SILICONE SEALANT.
 - BACKER RODS SHALL CONFORM TO THE REQUIREMENT OF SECTION 707.02.1.5, BACKER ROD FOR USE WITH HOT OR COLD POURED JOINT SEALANT.
 - PREFORMED JOINT FILLER SHALL CONFORM TO SECTION 707.02.2, PREFORMED JOINT FILLER AASHTO DESIGNATION: M 213 FOR BITUMINOUS TYPES.
 - JOINTS SHALL BE SAWED USING AN EARLY-ENTRY DRY SAW.



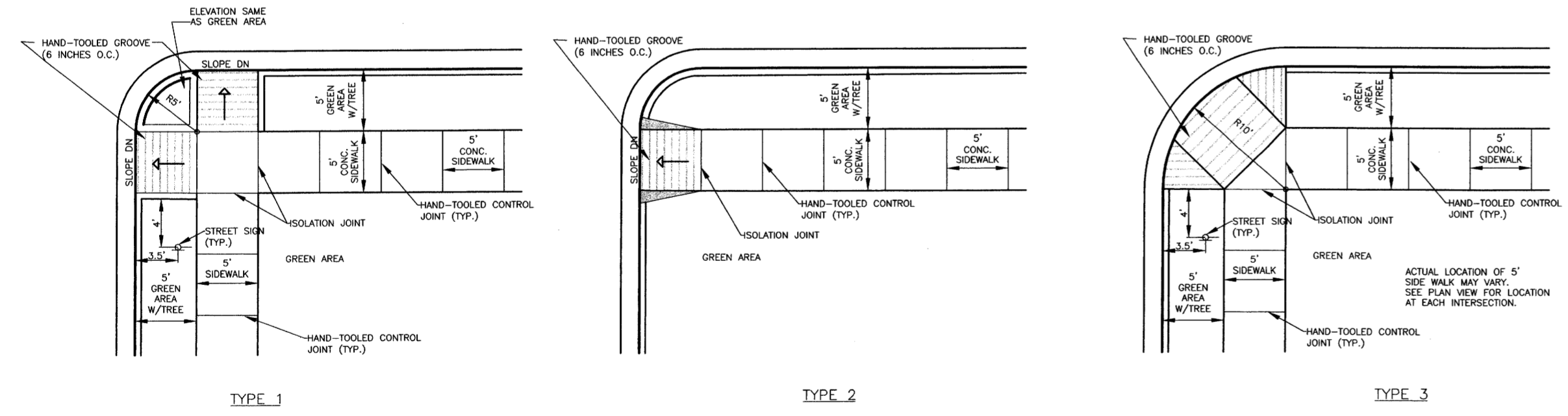
PROPOSED PRIVACY FENCE AND BIKE TRAIL TYPICAL LOCATION



STOP & STREET SIGN LOCATION
 STREET SIGN IS 4' BEHIND EDGE OF SIDEWALK. (SEE TYPE 1)

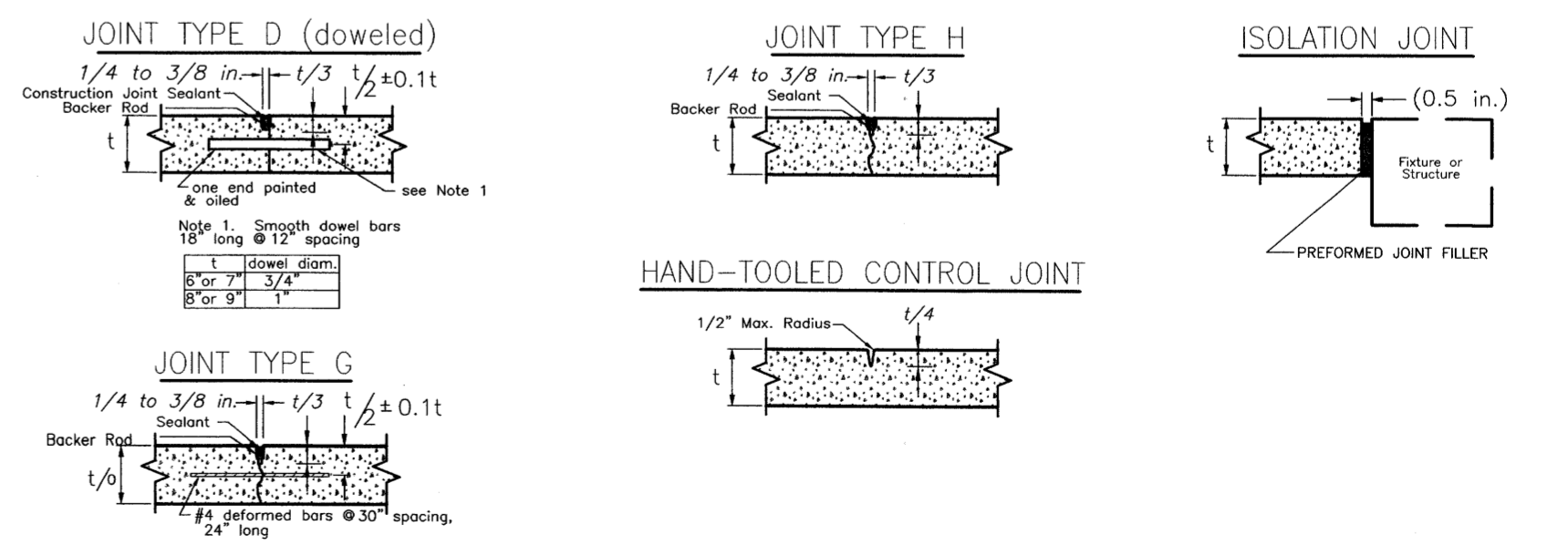


LUG ANCHORS SECTION "A"



CURB-CUT DETAILS
 TO DETERMINE LOCATION OF EACH CURB-CUT TYPE SIDEWALK RAMP CONDITION, SEE SHEET 3 STREET LAYOUT.
 TO DETERMINE CURB-CUT RADIUS TYPE, SEE SHEET 3-STREET LAYOUT.

NOTE: ONLY ONE RAMP IS REQ'D IF SIDEWALK IS ALONG ONLY ONE STREET. THE REQ'D RAMP IS ON A STRAIGHT LINE PROJECTION OF THE SIDEWALK.



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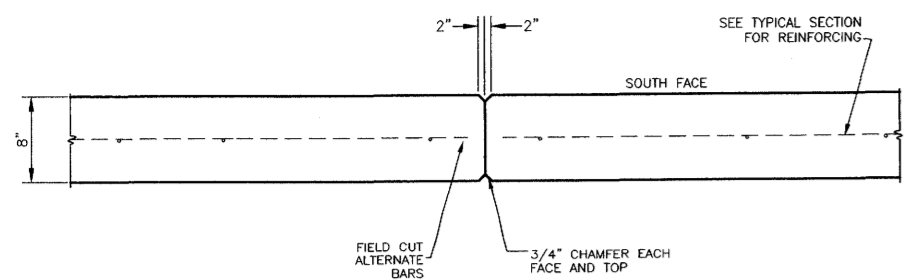
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THE TOWNSHIP AT COLONY PARK, PHASE 2
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10/31/03	A.U.J.
2		
3		
4		
5		
6		

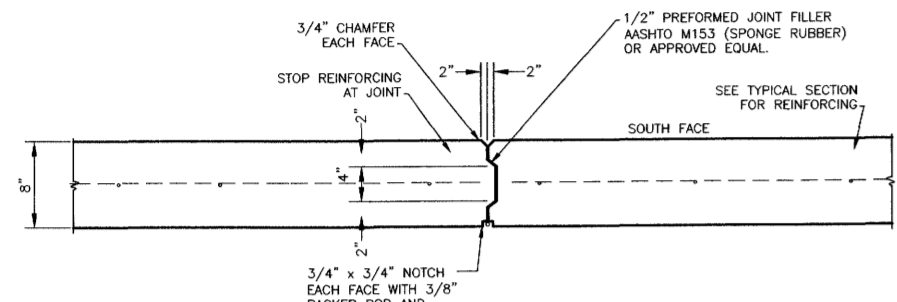
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NO SCALE	
DATE	
APPROVED BY	D.S.B.
DRAWN BY	A.U.J.
CHECKED BY	D.S.B.
TRACED BY	

SHEET TITLE	
CONCRETE PAVING AND SIDEWALK DETAILS	
FILE NAME	
SHEET NO.	17



VERTICAL WALL CONTRACTION JOINT DETAIL

CONSTRUCTION JOINT IS SIMILAR
N.T.S.



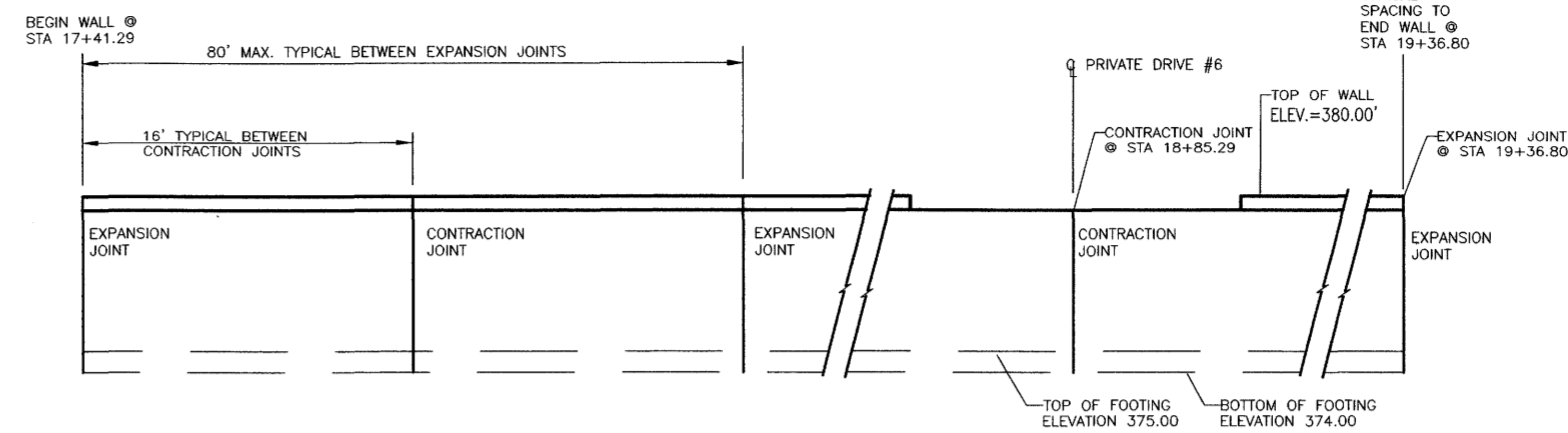
VERTICAL WALL EXPANSION JOINT DETAIL

N.T.S.

REVISION #2
CHANGED JOINT DETAILS

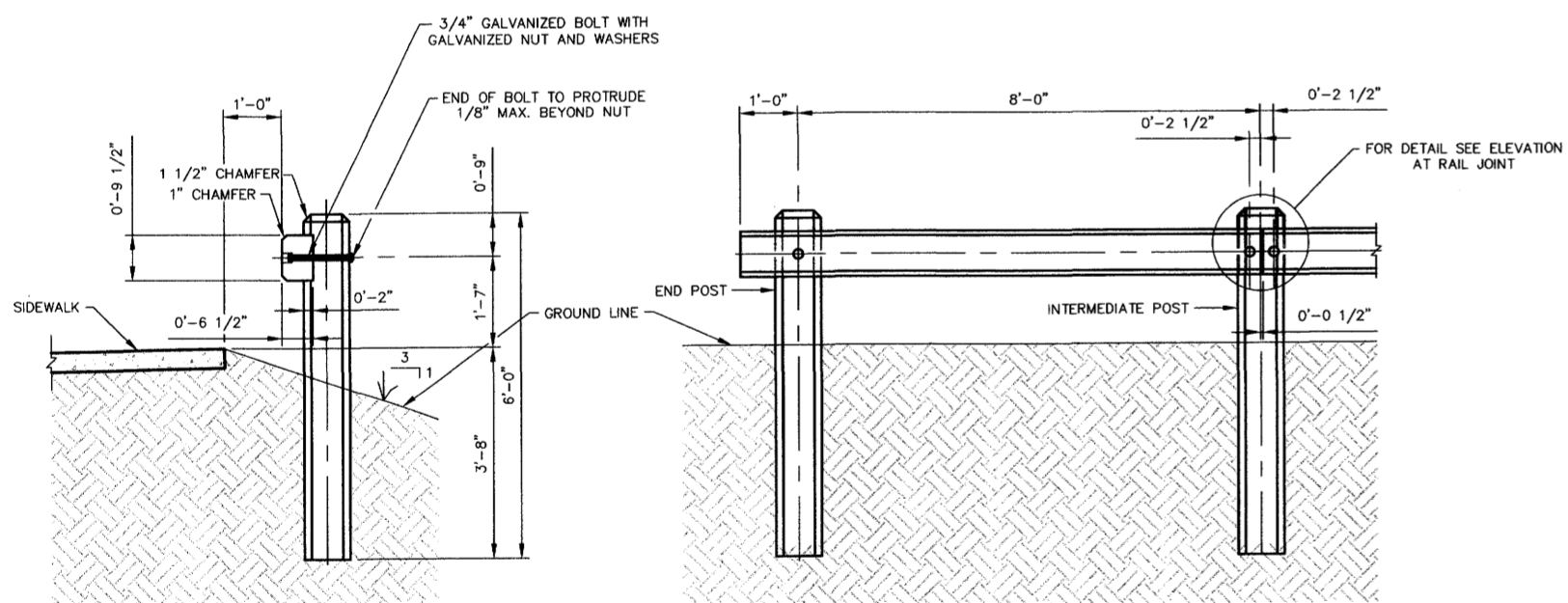
PRODUCT SPECIFICATIONS:
REFERENCE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 1990 EDITION.

1. SEALANT SHALL BE SILICONE TYPE CONFORMING TO THE REQUIREMENTS OF SECTION 707.02.1.4, SILICONE SEALANT.
2. BACKER RODS SHALL CONFORM TO THE REQUIREMENT OF SECTION 707.02.1.5, BACKER ROD FOR USE WITH HOT OR COLD POURED JOINT SEALANT.
3. PREFORMED JOINT FILLER SHALL CONFORM TO SECTION 707.02.2, PREFORMED JOINT FILLER AASHTO DESIGNATION: M 153 FOR SPONGE RUBBER TYPES.



TYPICAL WALL ELEVATION

N.T.S.



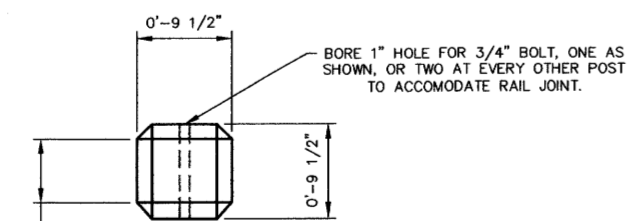
END VIEW

FRONT VIEW

TIMBER GUIDE RAILING DETAIL

SCALE: 1/2"=1'-0"

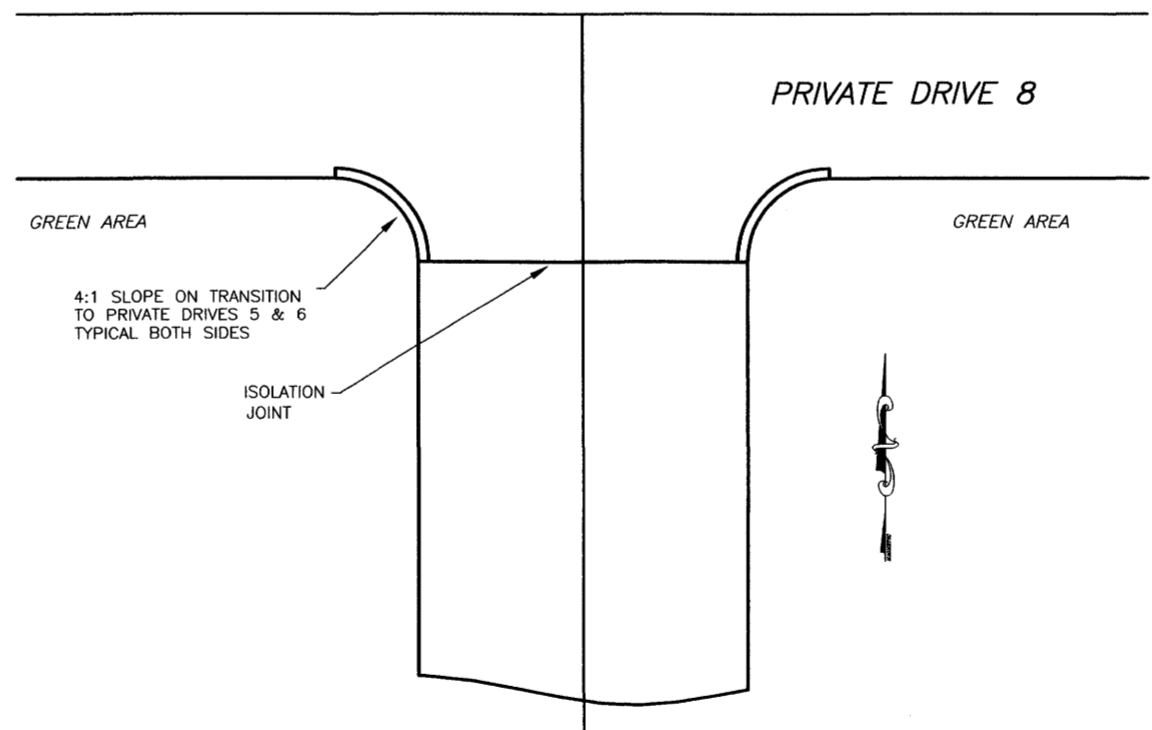
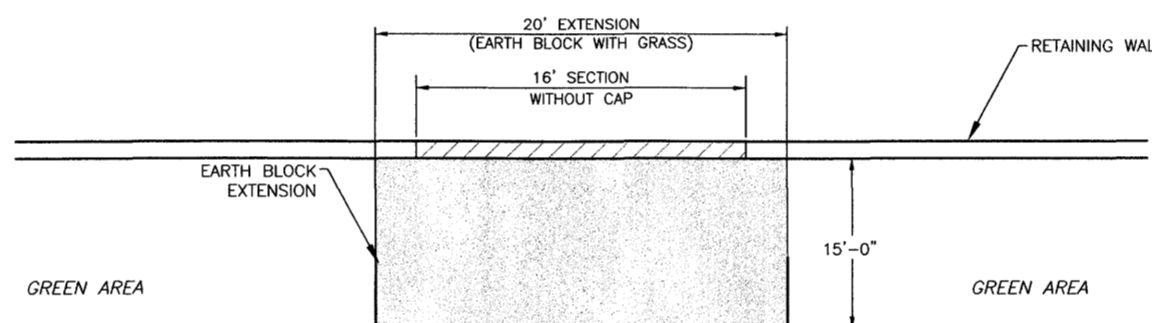
NOTE: TIMBER RAILS AND POSTS SHALL BE CCA TREATED TO 0.40 LBS./CUBIC FOOT.



PLAN

TYPICAL TIMBER POST

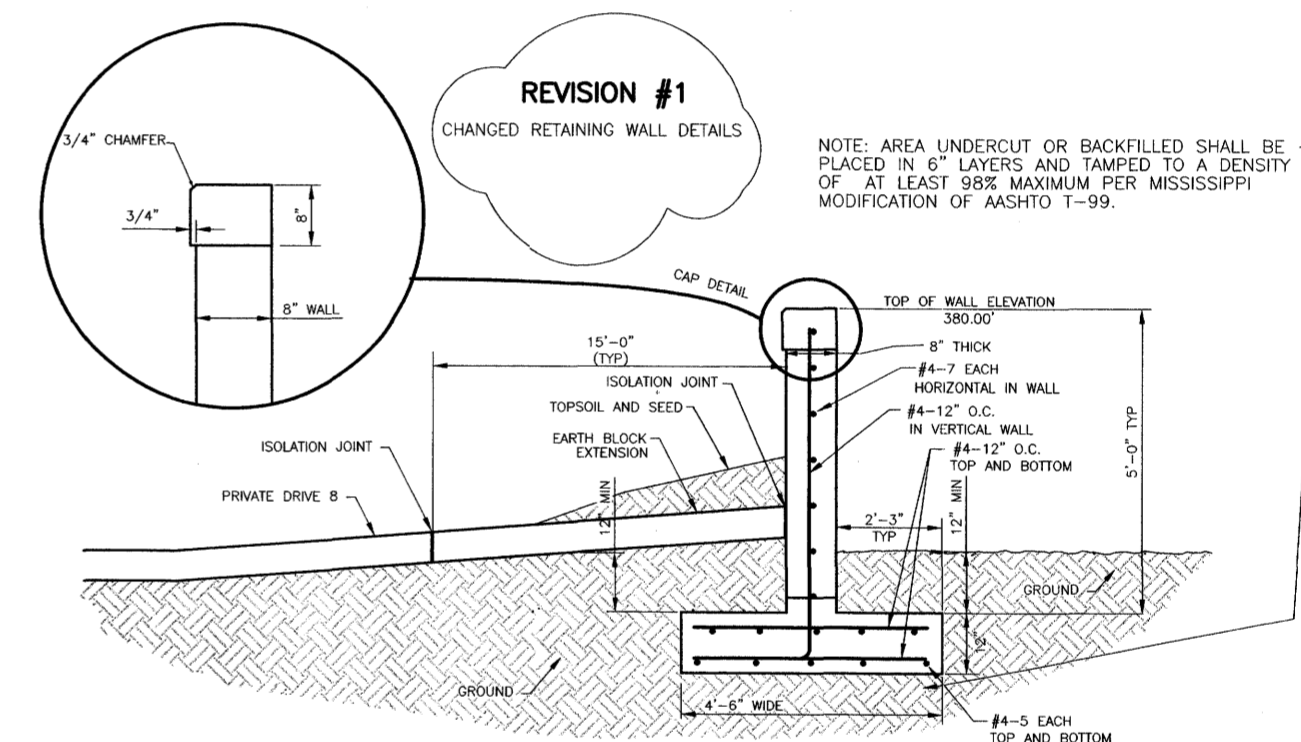
SCALE: 1"=1'-0"



PRIVATE DRIVE 5 OR 6

PLAN OF INTERSECTION OF PRIVATE DRIVES

N.T.S.

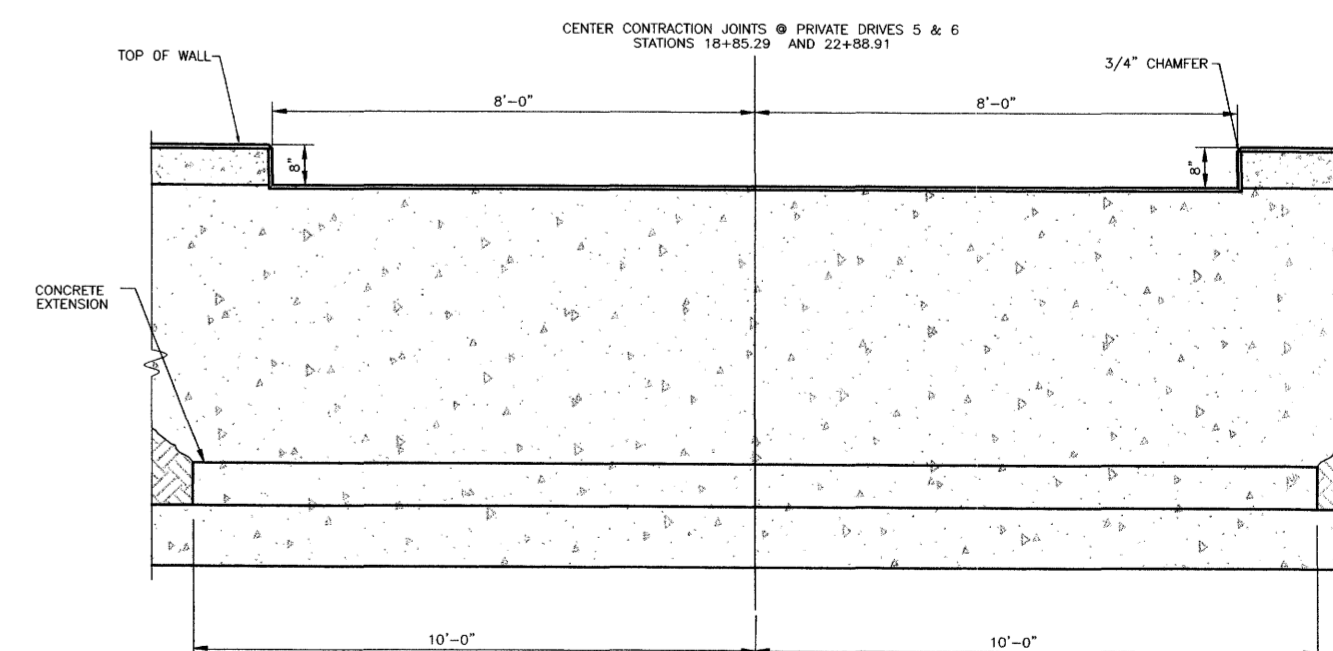


REVISION #1
CHANGED RETAINING WALL DETAILS

NOTE: AREA UNDERCUT OR BACKFILLED SHALL BE PLACED IN 6" LAYERS AND TAMPED TO A DENSITY OF AT LEAST 98% MAXIMUM PER MISSISSIPPI MODIFICATION OF AASHTO T-99.

RETAINING WALL SECTION-PRIVATE DRIVE 8 @ N. PROP. LINE

STA 17+41.29 TO 24+77.38 LT
N.T.S.



SECTION WITHOUT CAP @ PRIVATE DRIVES 5&6

RECORD DRAWING
05-18-2004

DCI **DIVERSIFIED CONSULTANTS, INC.**
CONSULTING ENGINEERS ... CITY, COUNTY, AND REGIONAL PLANNERS

395 EDGEWOOD TERRACE
JACKSON, MS 39206

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THE TOWNSHIP AT COLONY PARK, PHASE 2
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	8/21/03	J.H.G.
2	8/21/03	J.H.G.
3		
4		
5		
6		

SCALE	NO SCALE
DATE	
APPROVED BY	D.S.B.
DRAWN BY	A.U.J.
CHECKED BY	D.S.B.
TRACED BY	

SHEET TITLE
RETAINING WALL + TIMBER GUIDE RAILING DETAILS

FILE NAME SHEET NO. **18**