

# Projected 100 Year Flood Level – As documented in Original Stonewater Development Plans – 1999

**IMPORTANT:** Later information may also be shown on the Site Survey for your Home. That document should be more recent and should give you a more accurate assessment than the documents here.

**To see how close water will be to your basement level in the event of a 100 Year Flood, use the following instructions:**

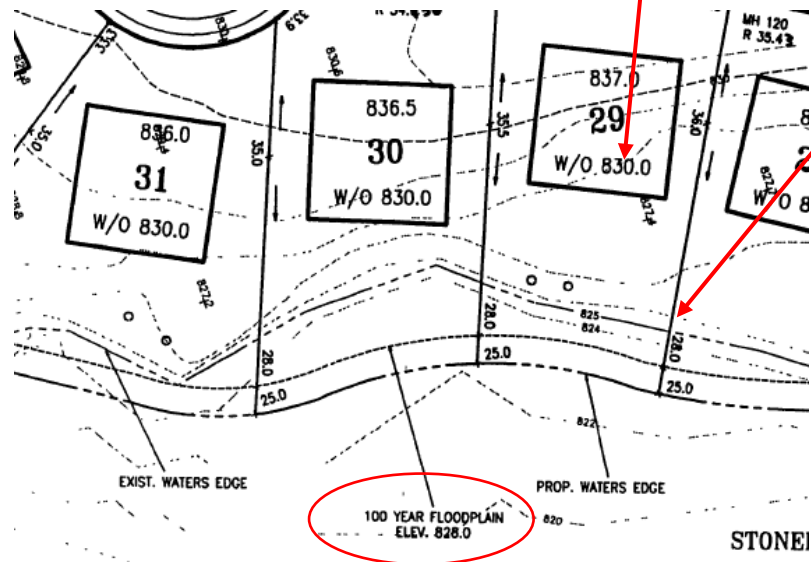
**A. Find your lot number**

Stonewater was developed in 5 phases. Find your Lot Number in the Drawings attached (See Index, Page 2). It could be in Phase 1 or 2 or 3 or 4 or 5. Lot details are shown in the drawings immediately following the Color Coded Drawing for each Phase.

**B. How high is your lot compared to 100 year flood level?**

If your lot is on the lake, there is a dotted 100 year flood line in the back of your lot - 28.0 indicates 828.0 Feet of Elevation (denotes highest projected level during a 100 year flood)

All lots will show basement level - Number at the back of your building envelope indicates the basement level of your home. In the example below, home on a lake with walkout basement level at 830 Feet is 2 feet above the 100 year flood line of Stoneridge Lake. 838 Feet is the basement floor level for this other home not on a lake. That's 10 feet above the 100 year flood line of Stoneridge Lake.

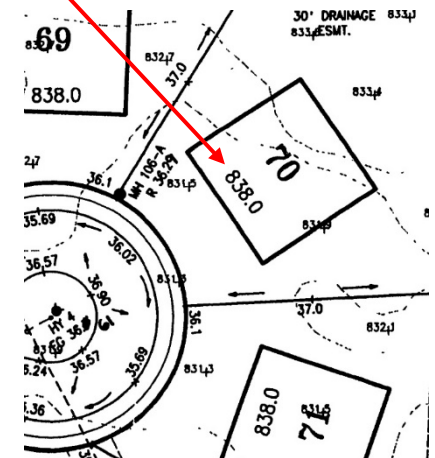


Teal, Stoneridge, Springhill and Parkshore Lakes

Ordinary Lake level: 825 feet  
100 Year Flood Level: 828 Feet

Mystic and Heather Lakes:

Ordinary Lake level: 822 feet  
100 Year Flood Level: 825 Feet



Thus, for the example homes above, the highest water level during a 100 year (rare) flood would be 828.0 feet, or 3 feet higher than the Normal Waters Edge (825.0 Feet), and 2 feet below the basement floor (830.0 feet) of these walkout homes.

## **Index of Stonewater Phase 1,2,3,4,5 Drawings**

Phase 1 Overview.....	Page 3
Phase 1 Details.....	Pages 4-8
Phase 2 Overview.....	Page 9
Phase 2 Details.....	Pages 10-13
Phase 3 Overview.....	Page 14
Phase 3 Details.....	Pages 15-18
Phase 4 Overview.....	Page 19
Phase 4 Details.....	Pages 20-22
Phase 5 Overview.....	Page 23
Phase 5 Details.....	Pages 24-25

# STONewater

## PHASE I

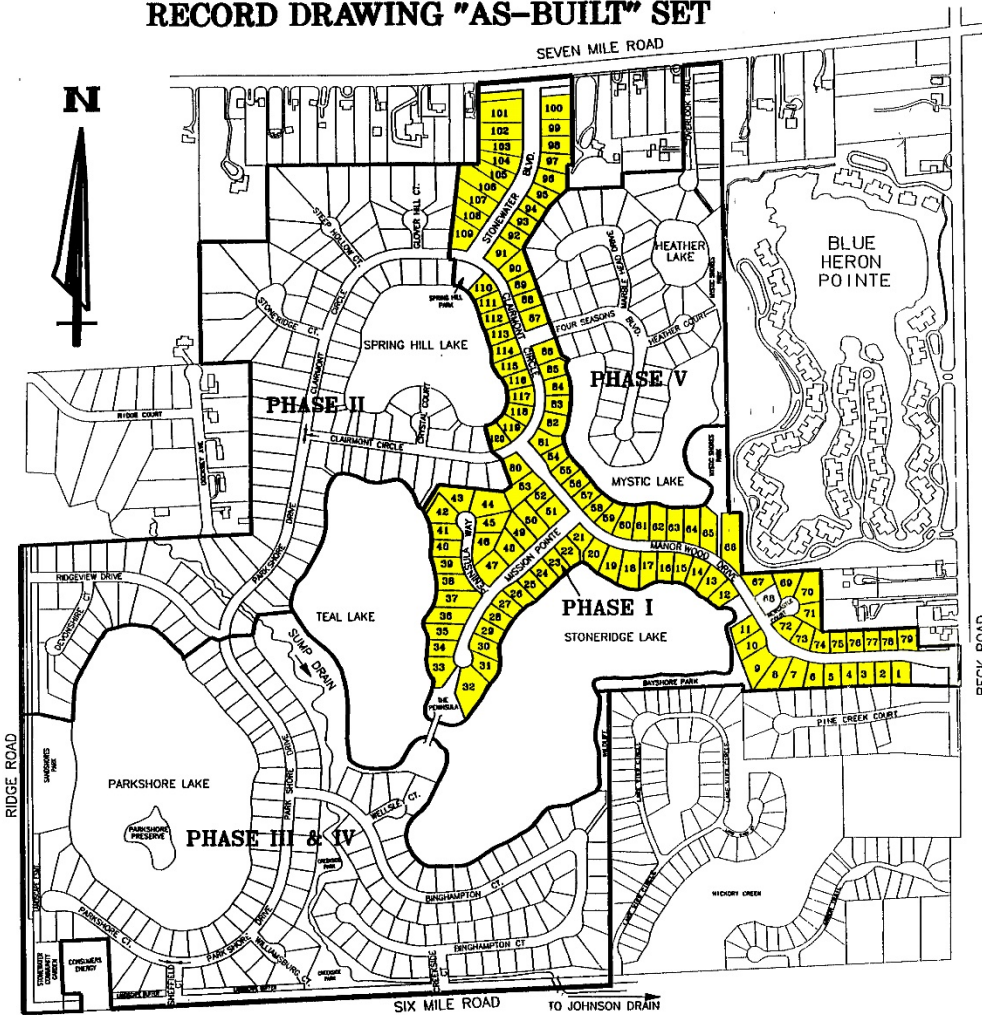
NORTHVILLE TOWNSHIP, WAYNE COUNTY, MICHIGAN

A PART OF SECTION 8, T-1-S R-8-E

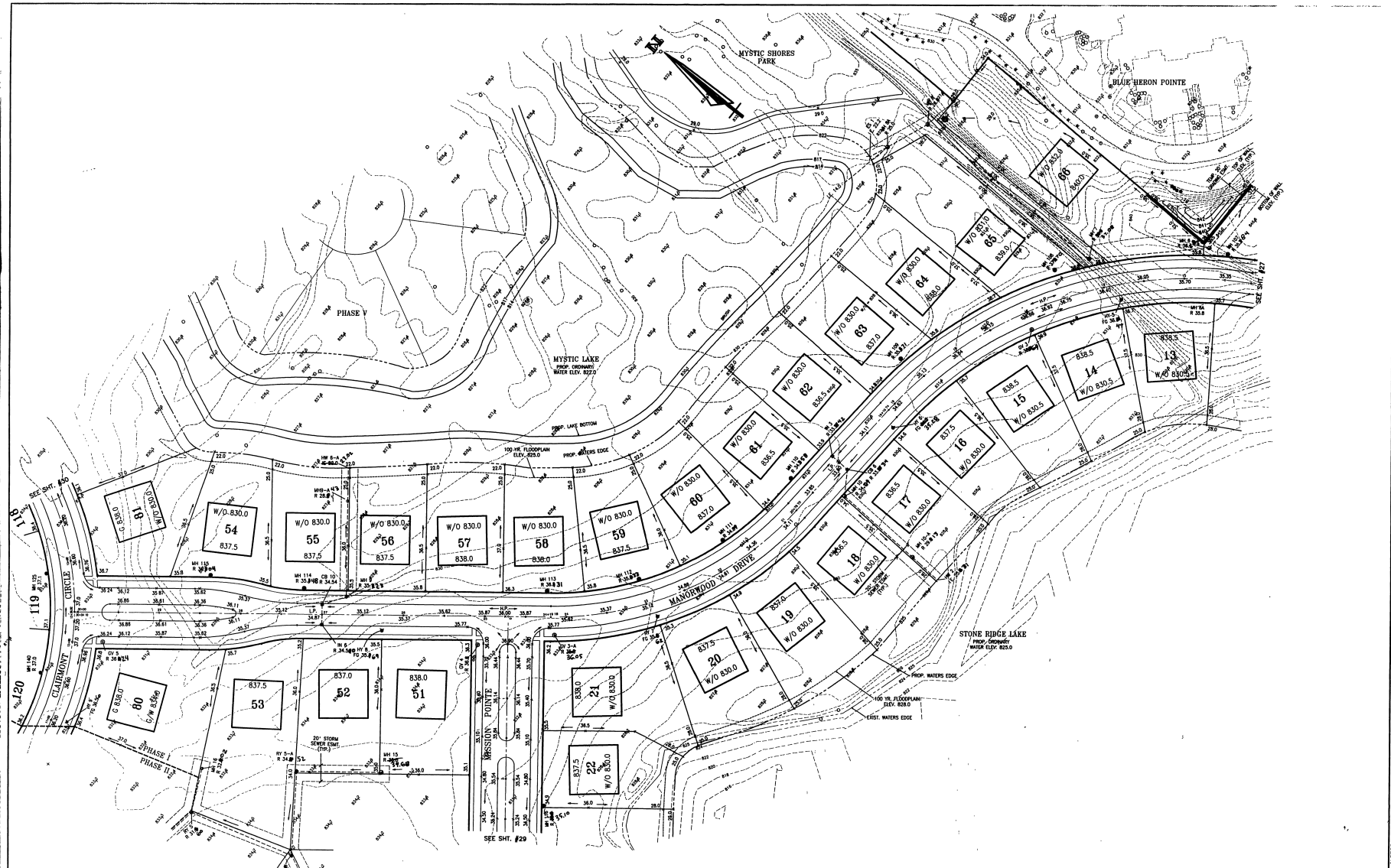
RECORD DRAWING "AS-BUILT" SET

**ENVIRONMENT NOTES**

- 1. SURFACE WATER OR GROUNDWATER
- 2. DISTANCE BETWEEN MANHOLES SHALL NOT EXCEED 100 FEET.
- 3. ELEVATION DATUM (U.S.C. & G.S.) SHALL BE USED TO THE PUBLIC SEWER.
- 4. DEPTH OF STANDING MANHOLES SHALL NOT EXCEED 6 FEET.
- 5. INSTALLATION SHALL BE COMPLETED 48 HOURS PRIOR TO START OF CONSTRUCTION.







NOTE: HOUSE ELEVATION IS THE FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	F.R.	PAGE	F.R.	PAGE
11-13-98	PROPOSED PLAN REVIEW	ST							
11-13-98	W/O'S REVISED NO. 341-342	ST							
11-13-98	REVISION FOR TWP. REVIEW	ST							

OWNER/DEVELOPER: STONEWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI. 48326  
 (248) 340-3400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

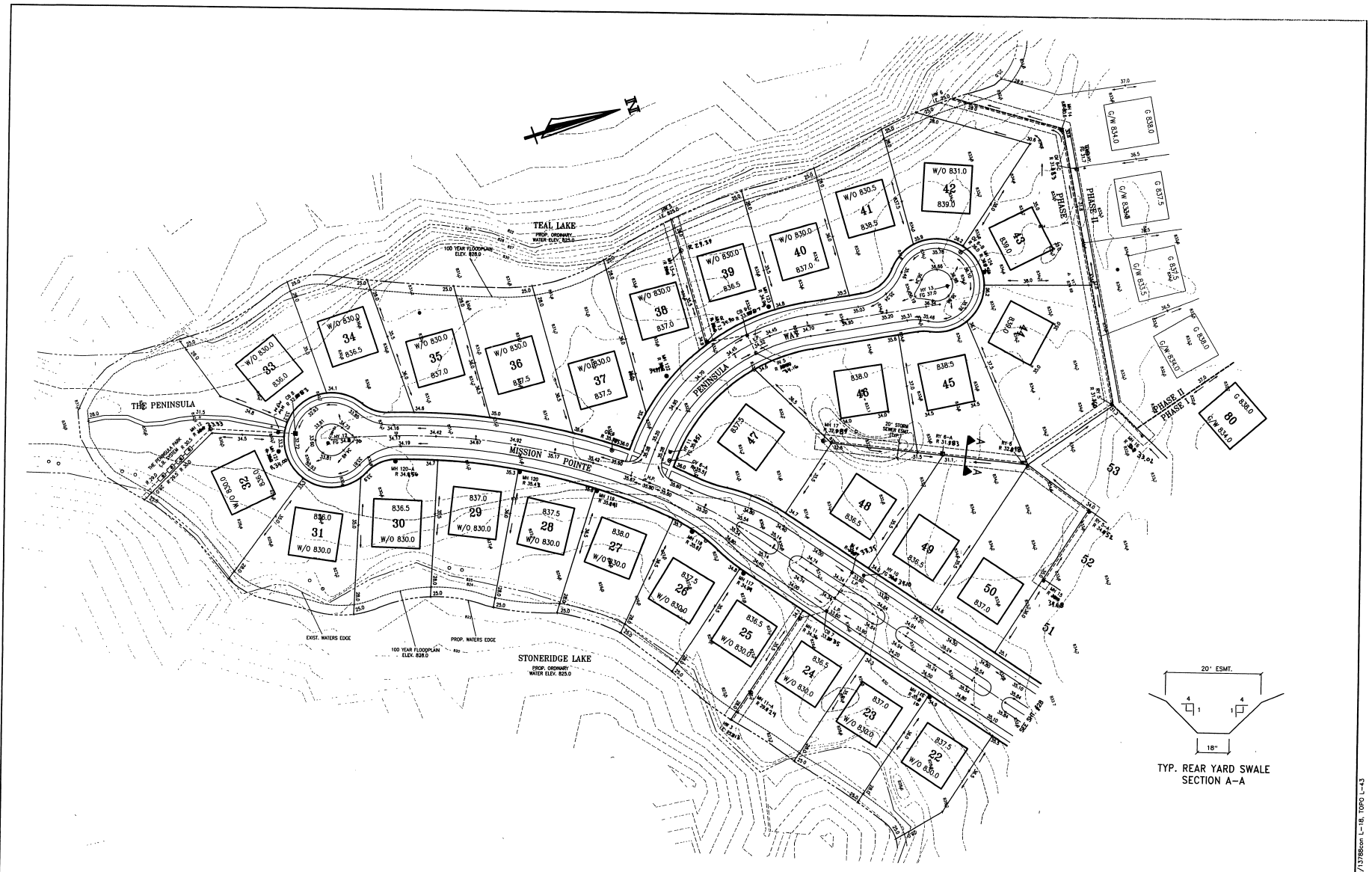
DATE OCT. 1997 CKD. BY DATE  
 DRAWN ST  
 DESIGN ST  
 SECTION 8 T-1-S, R-8-E



**FINAL GRADING PLAN**  
**STONEWATER**  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE 1" = 50'  
 SHEET 28 OF 39  
**CWE** 13788-04

Pathway: g:\p101\stwater\13788plan 1-18-98



DATE	ISSUE	BY	DATE	ISSUE	BY	PAGE	T.O.	DWG.
11-10-98	STONERIDGE TWP REVIEW	ST						
1-10-99	W.C.D.P.S. REVIEW NO. 524-029	ST						
5-30-99	REVISED PER TWP. REVIEW	ST						

OWNER/DEVELOPER: STONERIDGE LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

DATE: OCT. 1997  
 DRAWN: ST  
 DESIGN: ST  
 SECTION: 8

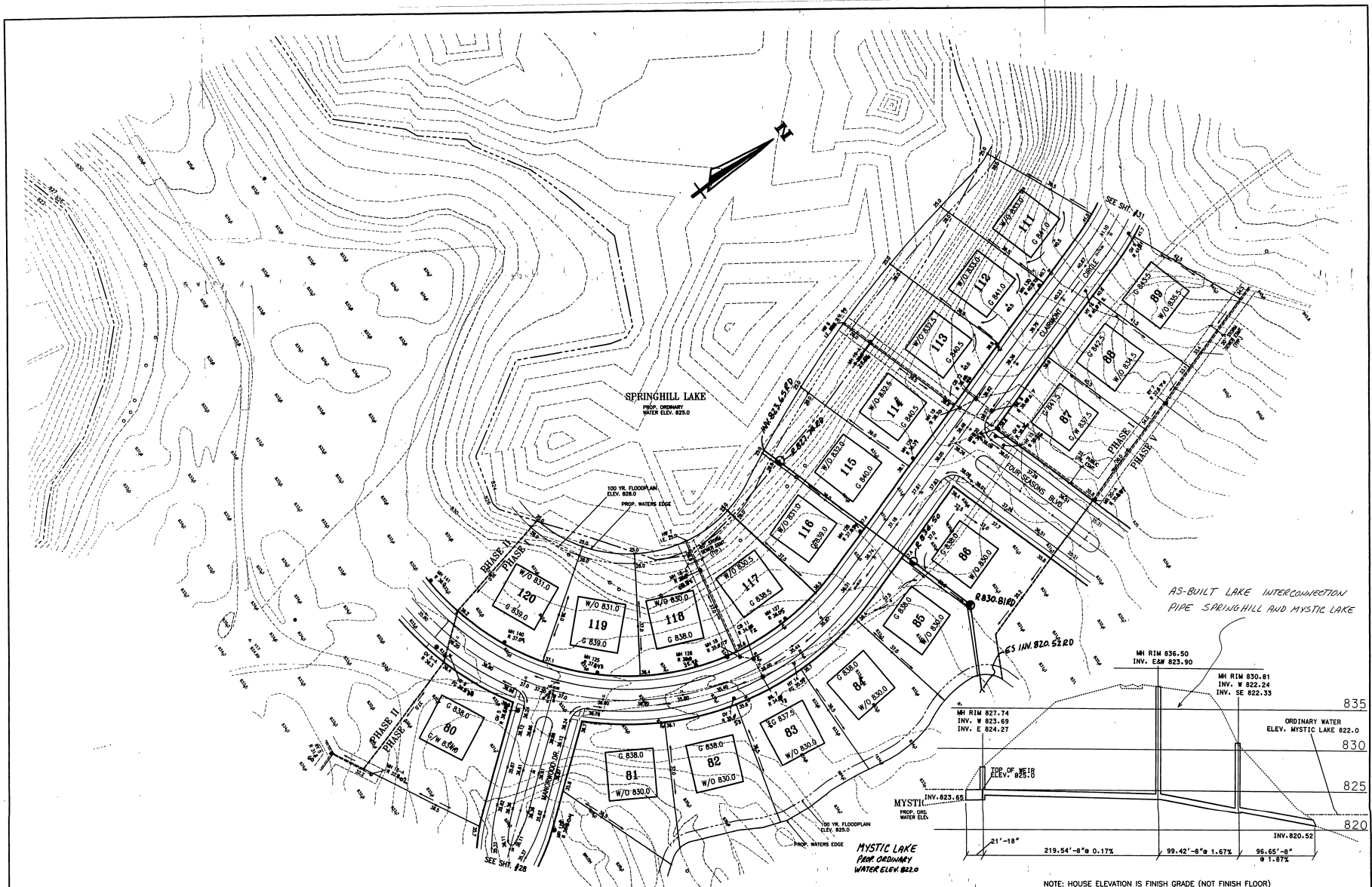


NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

**FINAL GRADING PLAN**  
 STONERIDGE  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
 SHEET 29 OF 39  
 13788-04

STONERIDGE I.



DATE	ISSUE	BY	DATE	ISSUE	BY	F.R.	PAGE	F.R.	PAGE
12-15-96	ISSUED FOR PERMITS	ST							
1-10-97	REVISED PERMITS	ST							
1-23-97	REVISED PERMITS	ST							

OWNER/DEVELOPER: STONewater LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

DATE: OCT. 1997  
 DRAWN BY: ST  
 DESIGN BY: ST  
 SECTION: 8  
 T-1-N. R-8-E.  
 12 HOUR  
 BEFORE YOU DIG  
 CALL MISS HOE  
 800-482-7171  
 (MI. ONLY)

NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

**FINAL GRADING PLAN**  
**STONewater**  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
 SHEET 30 OF 39  
**GWE** 13788-04

User: gwe110/Drawn/13788-04.dwg, L25, 10/25/97, L=50



DATE	ISSUE	BY	DATE	ISSUE	F.A.	PAGE	F.A.	PAGE
1-27-98	REV. 100	ST						
4-10-98	W.C.P.'S. REVIEW NO. 384-029	ST						
5-20-98	REV. 100	ST						
7-24-98	W.C.P.'S. REVIEW NO. 384-029	ST						
9-5-98	W.C.P.'S. REVIEW NO. 384-029	ST						

OWNER/DEVELOPER: STONEWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI. 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

DATE: OCT. 1997  
 DRAWN: ST  
 DESIGN: ST  
 SECTION: 8

CHKD. BY: DATE:  
 T-1-N, R-8-E.



NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

**FINAL GRADING PLAN**  
 STONEWATER  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE	1" = 50'
SHEET	31 OF 39
<b>CWE</b>	13788-04

**STONEWATER I**



# STONEWATER SUB. NO. 2

NORTHVILLE TOWNSHIP, WAYNE COUNTY, MICHIGAN  
A PART OF SECTION 8, T-1-S R-8-E  
RECORD DRAWING "AS-BUILT" SET

**IF ENVIRONMENT  
NOTED**

SURFACE WATER OR GROUNDWATER

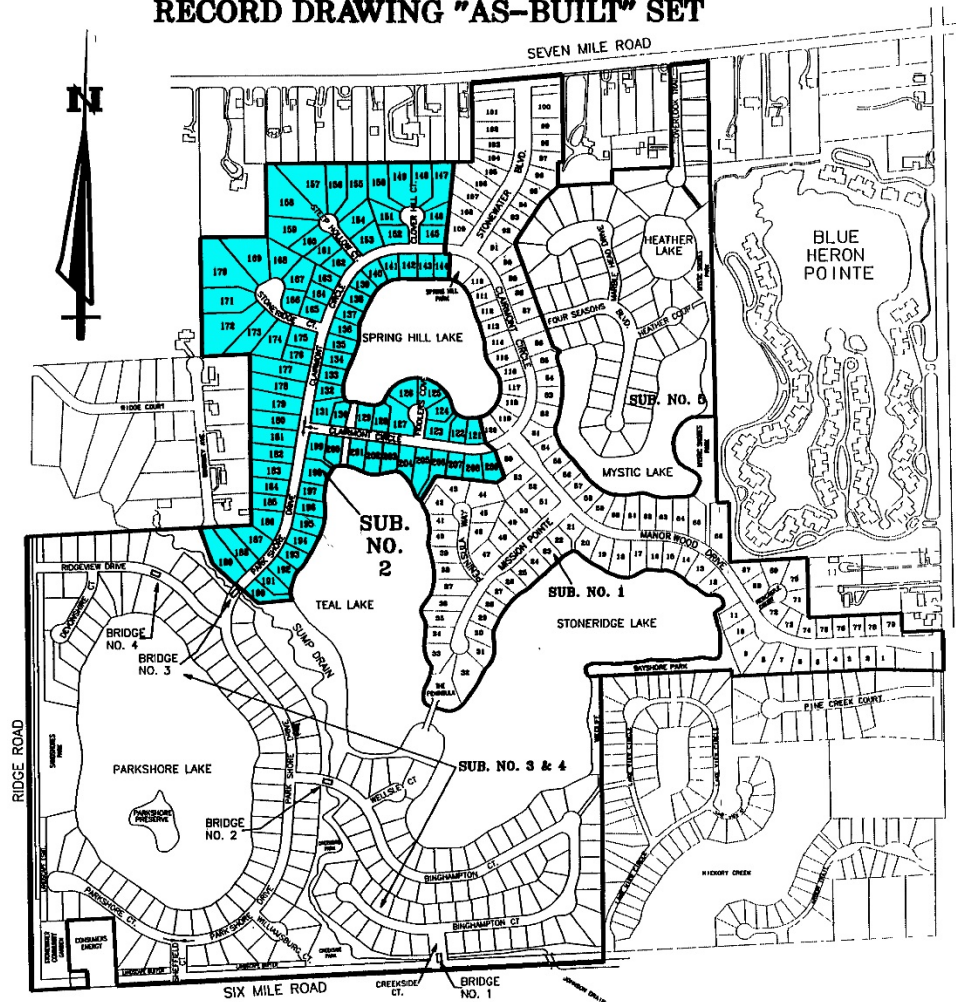
IF BETWEEN MANHOLES SHALL NOT EXCEED 48 HOURS.

LOCALITY DATUM (U.S.C. & G.S.)

CONNECTION TO THE PUBLIC SEWER,

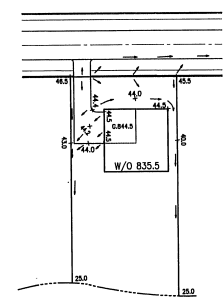
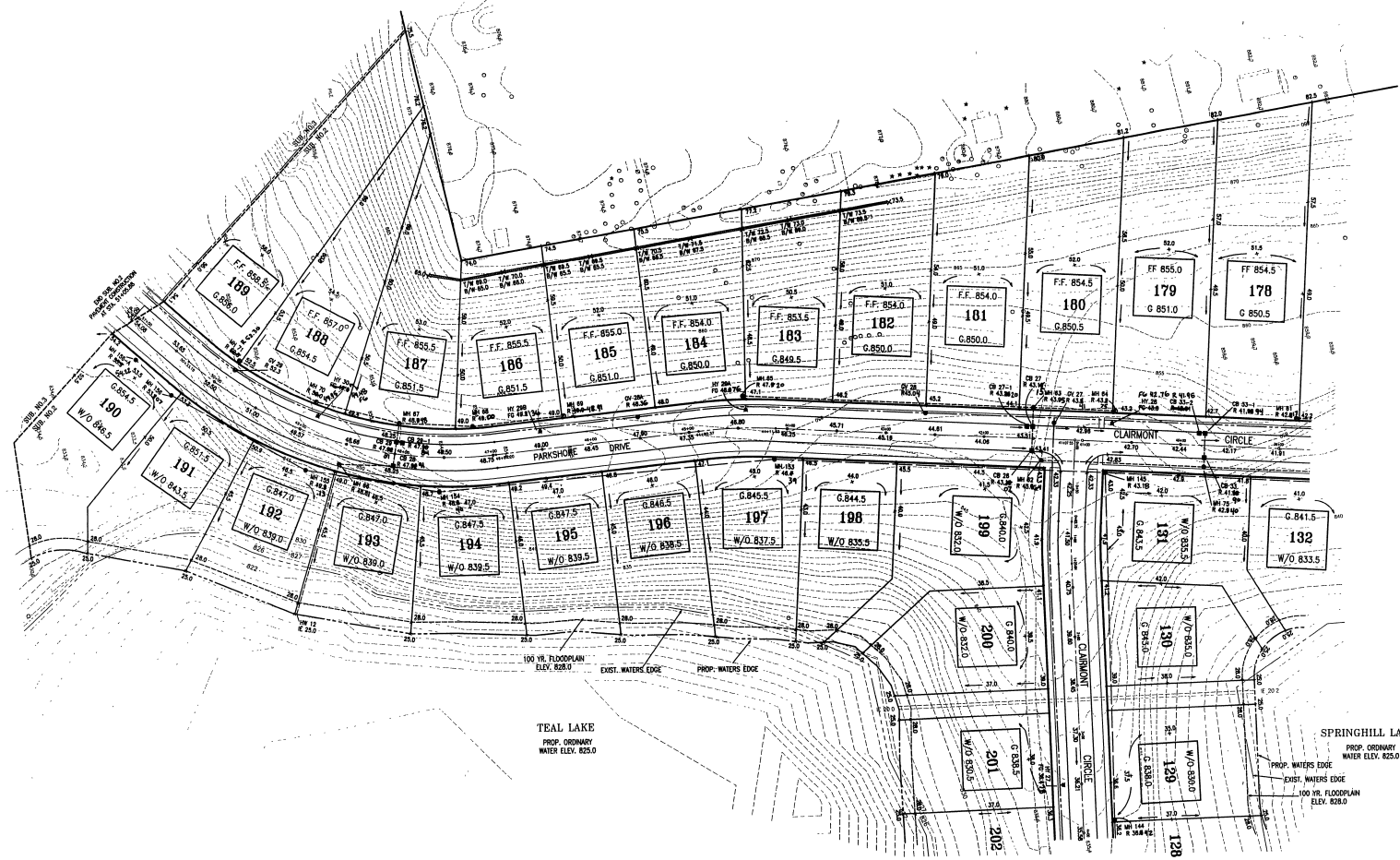
EXISTING MANHOLES SHALL NOT EXCEED

48 HOURS PRIOR TO START OF



# STONEWATER





TYPICAL FRONT TO REAR LOT DRAINAGE

NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	T.B.	PAGE	T.B.	PAGE
12-15-98	REVISED PER PLAN 181-201	ST	12/26						
1-15-99	REVISED PER PLAN 181-201	ST	1/27/99						
1-15-99	REVISED PER PLAN 181-201	ST	1/27/99						

OWNER/DEVELOPER: STONWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

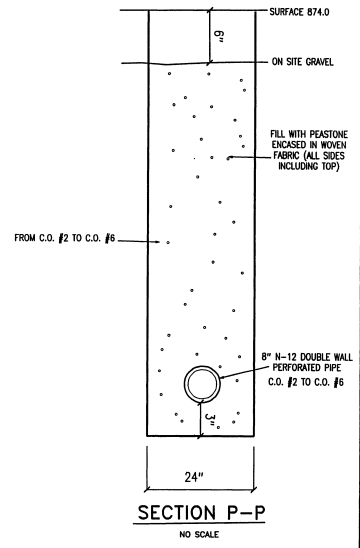
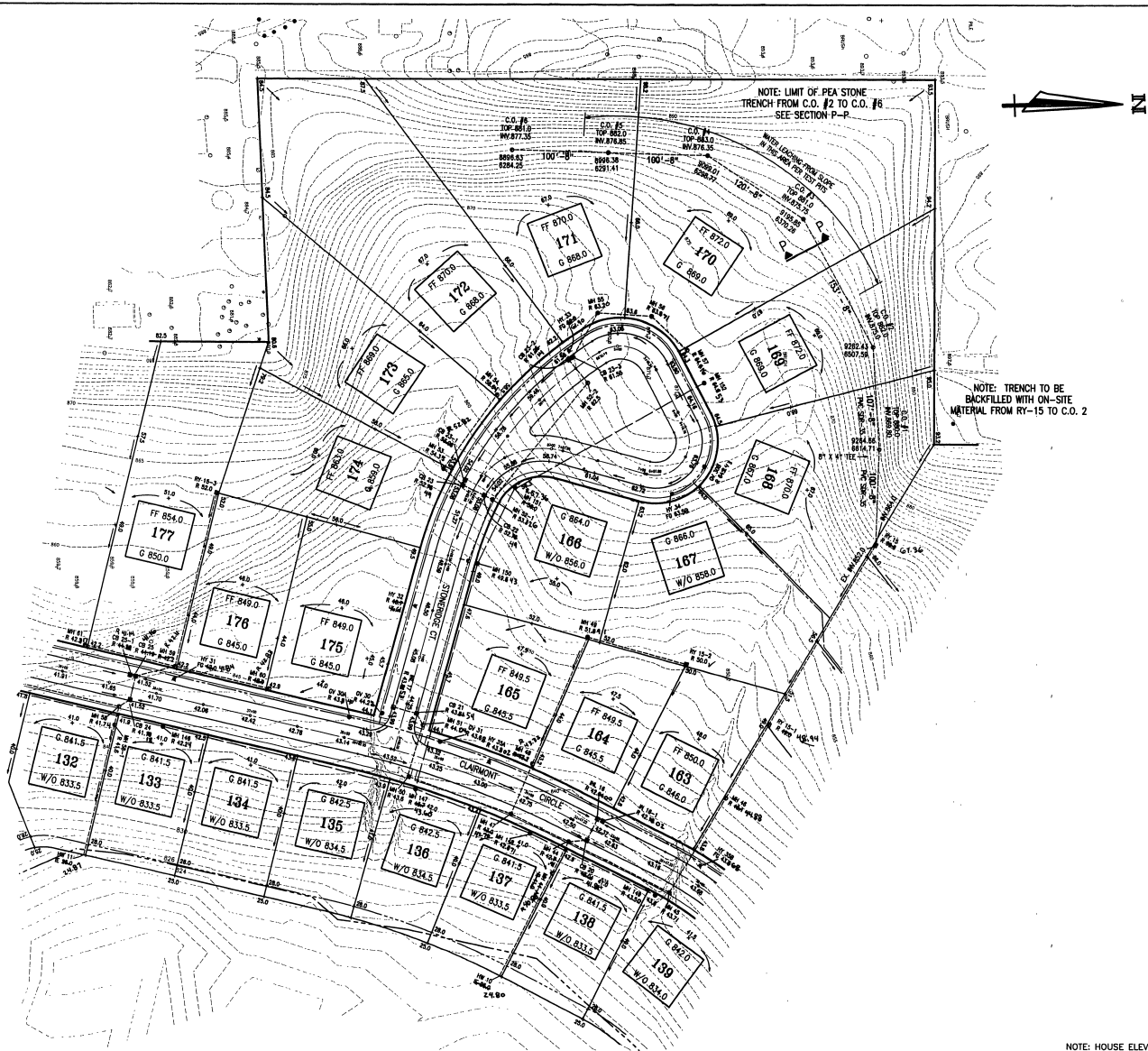
DATE MAR 1998 CKD. BY DATE  
 DRAWN ST  
 DESIGN ST  
 SECTION 8 T-1-N-R-S-E



**FINAL GRADING PLAN**  
**STONWATER SUB. NO.2**  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE 1" = 50'  
 SHEET 19 OF 22  
**GWE** 13788-04

STONWATER II



NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	F.B.	PAGE	F.A.	PAGE
1-15-98	FOR REVIEW ONLY (S&C)								
2-25-98	FOR THE RECORD								
3-15-98	FOR THE RECORD								

OWNER/DEVELOPER: STONWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI. 48328  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

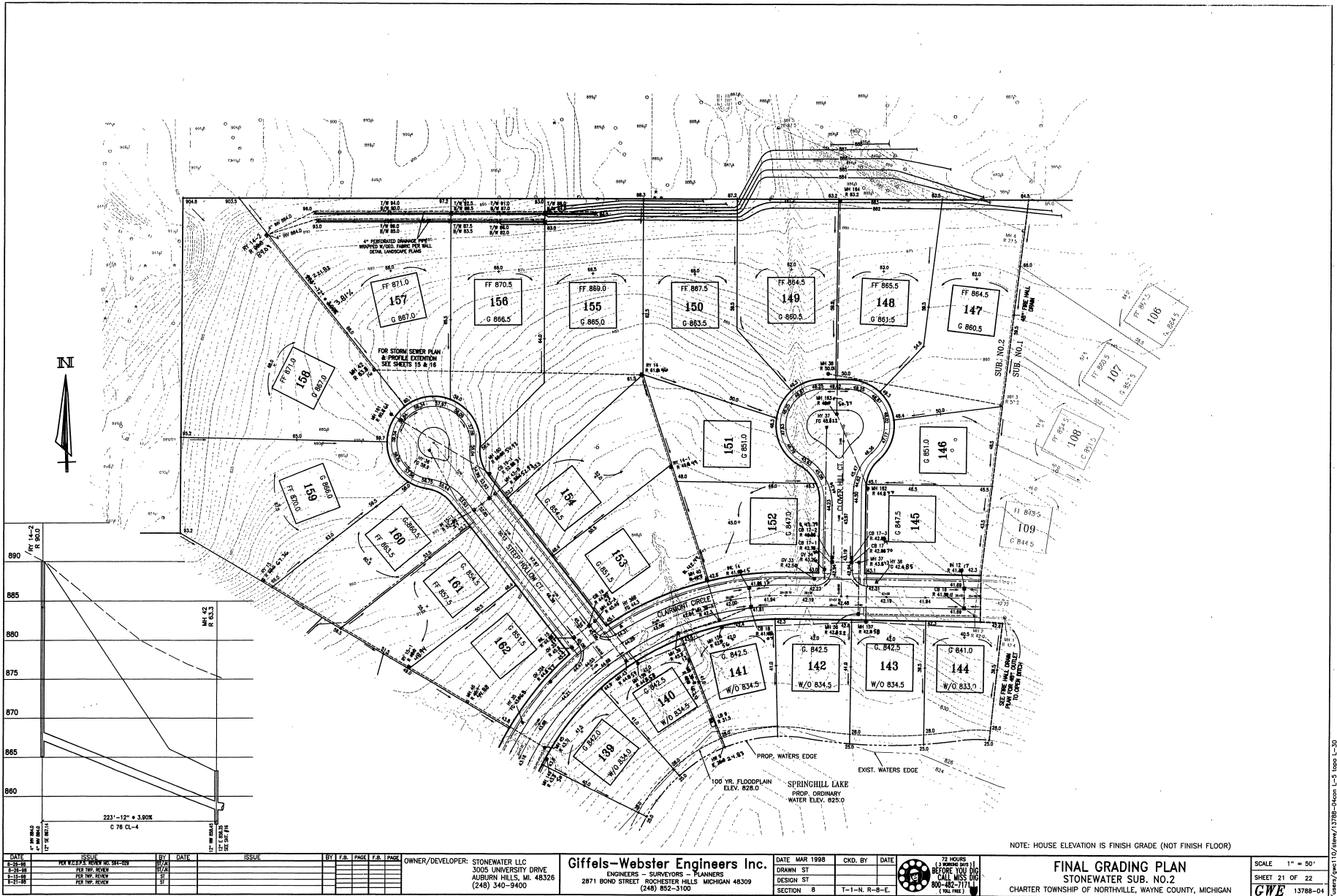
DATE	CHKD. BY	DATE
MAR 1998		
DESIGN ST		
SECTION 8	T-1-N-R-B-E	



**FINAL GRADING PLAN**  
 STONWATER SUB. NO.2  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE	1" = 50'
SHEET	20 OF 22
<b>GWE</b>	13788-04

STONWATER II



DATE	ISSUE	BY	DATE	ISSUE	BY	F.A.	PAGE	F.A.	PAGE
1-13-98	FOR REVIEW	ST							
2-13-98	FOR REVIEW	ST							
3-13-98	FOR REVIEW	ST							
3-21-98	FOR REVIEW	ST							

OWNER/DEVELOPER: STONEWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI. 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

DATE MAR 1998  
 DRAWN ST  
 DESIGN ST  
 SECTION 8  
 CKD. BY  
 DATE  
 T-1-N-R-E-6

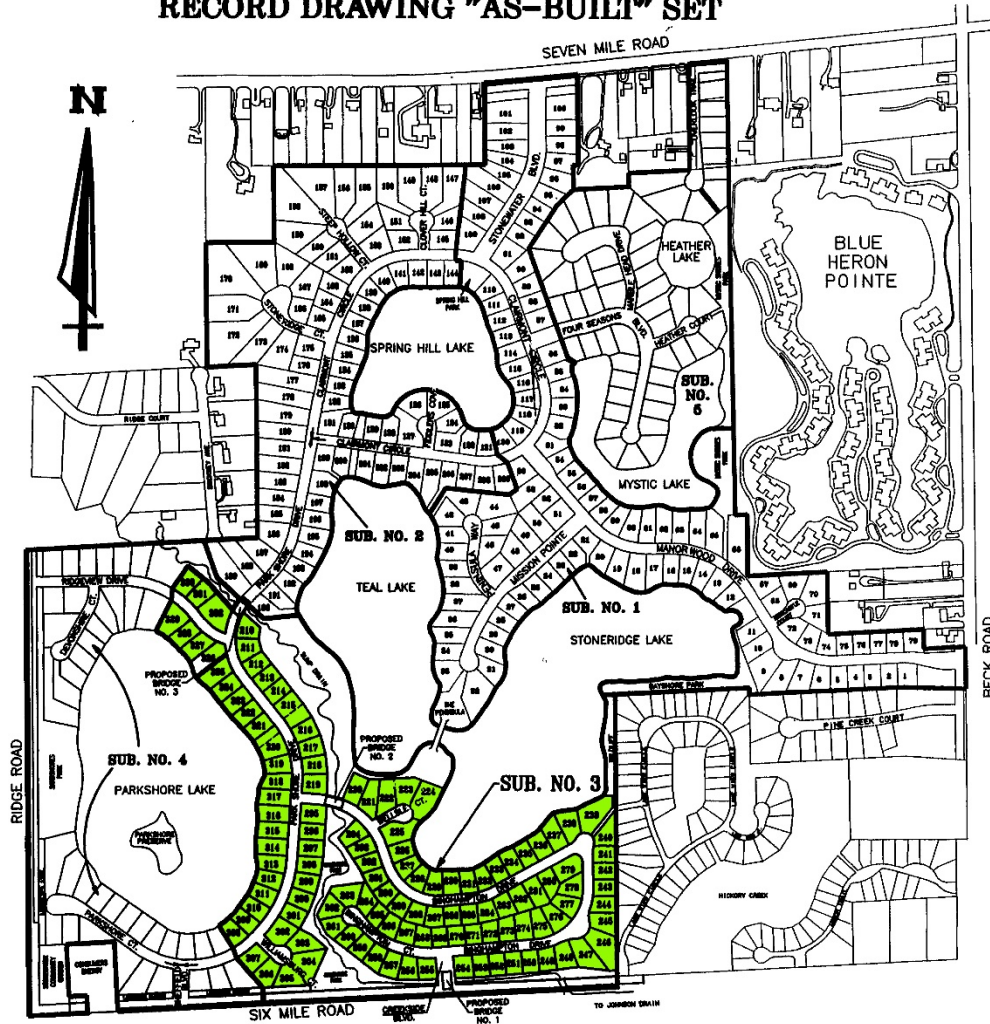
NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

**FINAL GRADING PLAN**  
 STONEWATER SUB. NO. 2  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE 1" = 50'  
 SHEET 21 OF 22  
**GWE** 13788-04

# STONEWATER SUB. NO. 3

LE TOWNSHIP, WAYNE COUNTY, MIC  
PART OF SECTION 8, T-1-S R-8-E  
RECORD DRAWING "AS-BUILT" SET



**HYDRAULIC CHANNEL ANALYSIS**

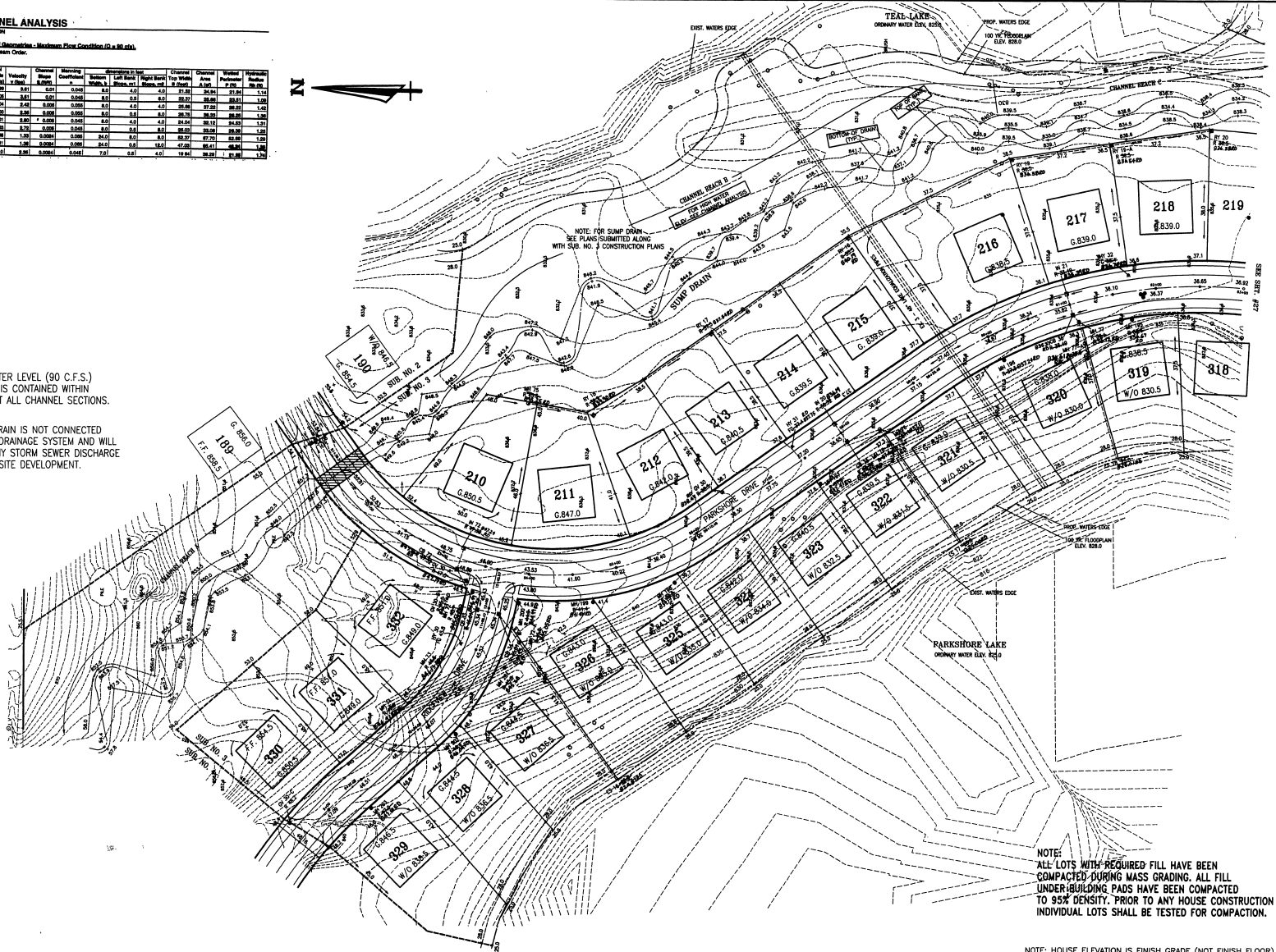
TRANSVERSE CHANNEL SECTION

Summary of Storm Drain Channel Dimensions - Maximum Flow Conditions (Q = 60 cfs)  
Channel Sections Listed in Downstream Order

Channel Section	Design Flow Depth (ft)	Channel Flow Rate (cfs)	Velocity (ft/sec)	Channel Coefficient	Channel Slope	Channel Length (ft)	Channel Bottom Elevation (ft)	Channel Top Elevation (ft)	Channel Inlet Elevation (ft)	Channel Outlet Elevation (ft)	Channel Inlet Flow Rate (cfs)	Channel Outlet Flow Rate (cfs)
A	1.00	50.00	5.00	0.01	0.01	100	100.00	101.00	100.00	101.00	50.00	50.00
B	1.00	50.00	5.00	0.01	0.01	100	100.00	101.00	100.00	101.00	50.00	50.00
C	1.00	50.00	5.00	0.01	0.01	100	100.00	101.00	100.00	101.00	50.00	50.00
D	1.00	50.00	5.00	0.01	0.01	100	100.00	101.00	100.00	101.00	50.00	50.00
E	1.00	50.00	5.00	0.01	0.01	100	100.00	101.00	100.00	101.00	50.00	50.00
F	1.00	50.00	5.00	0.01	0.01	100	100.00	101.00	100.00	101.00	50.00	50.00



1. MAXIMUM WATER LEVEL (90 C.F.S.) IN SUMP DRAIN IS CONTAINED WITHIN TOP OF BANK AT ALL CHANNEL SECTIONS.
2. THE SUMP DRAIN IS NOT CONNECTED TO ANY STORM DRAINAGE SYSTEM AND WILL NOT RECEIVE ANY STORM SEWER DISCHARGE WITHIN THE ON SITE DEVELOPMENT.



NOTE:  
ALL LOTS WITH REQUIRED FILL HAVE BEEN COMPACTED DURING MASS GRADING. ALL FILL UNDER BUILDING PADS HAVE BEEN COMPACTED TO 95% DENSITY. PRIOR TO ANY HOUSE CONSTRUCTION INDIVIDUAL LOTS SHALL BE TESTED FOR COMPACTION.

NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	DATE	ISSUE
1-28-98	FOR PERM						

OWNER/DEVELOPER: STONWATER LLC  
3005 UNIVERSITY DRIVE  
AUBURN HILLS, MI 48326  
(248) 340-9400

**Giffels-Webster Engineers Inc.**  
ENGINEERS - SURVEYORS - PLANNERS  
2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
(248) 852-3100

DATE: MAY 1998  
DRAWN: EK  
DESIGN: ST  
SECTION: 8  
CHKD. BY: T-T-N, R-B-E

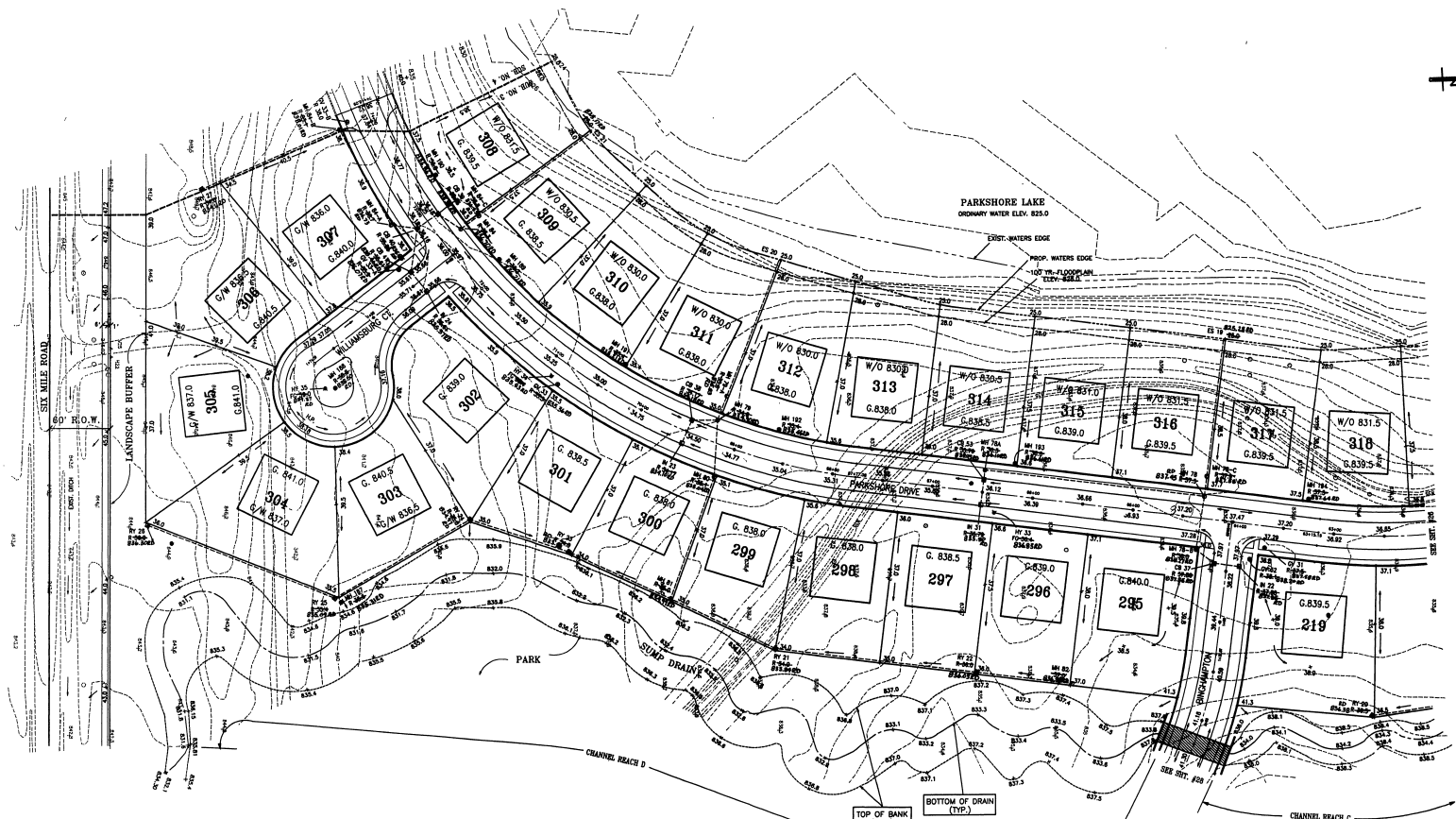


**FINAL GRADING PLAN**  
STONWATER SUB. NO. 3  
CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
SHEET 26 OF 31  
CWE 13785-04

**STONWATER III**

A:\stwater\101\stwater\13785-04\_c-2\_topo\_1-27



FOR HIGH WATER ELEV.  
SEE CHANNEL ANALYSIS  
SHT. #26

NOTE: FOR SLUMP DRAIN  
SEE PLANS SUBMITTED ALONG  
WITH SUB. NO. 3 CONSTRUCTION PLANS

**HYDRAULIC CHANNEL ANALYSIS**  
TRAPEZOIDAL CHANNEL SECTION  
Summary of Stream Data, Channel Description, Maximum Flow Conditions (Q = 60 cfs),  
Channel Section Labels in Chronology Order.

Channel	Section	Flow Area (sq ft)	Velocity (ft/s)	Shear (lb/ft²)	Channel	Flow Area (sq ft)	Velocity (ft/s)	Shear (lb/ft²)	Channel	Flow Area (sq ft)	Velocity (ft/s)	Shear (lb/ft²)
A	1	100.00	2.81	0.001	2	100.00	2.81	0.001	3	100.00	2.81	0.001
B	1	100.00	2.81	0.001	2	100.00	2.81	0.001	3	100.00	2.81	0.001
C	1	100.00	2.81	0.001	2	100.00	2.81	0.001	3	100.00	2.81	0.001
D	1	100.00	2.81	0.001	2	100.00	2.81	0.001	3	100.00	2.81	0.001

NOTE:  
ALL LOTS WITH REQUIRED FILL HAVE BEEN COMPACTED  
DURING MASS GRADING. ALL FILL UNDER BUILDING PADS  
HAVE BEEN COMPACTED TO 95% DENSITY. PRIOR TO ANY HOUSE  
CONSTRUCTION INDIVIDUAL LOTS SHALL BE TESTED FOR COMPACTION.

NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	F.A. PAGE	F.R. PAGE
1-28-88	REV. NO. 1						
1-11-88	REV. NO. 2						

OWNER/DEVELOPER: STONEWATER LLC  
3005 UNIVERSITY DRIVE  
AUBURN HILLS, MI. 48326  
(248) 340-9400

**Giffels-Webster Engineers Inc.**  
ENGINEERS - SURVEYORS - PLANNERS  
2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
(248) 852-3100

DATE: MAY 1998  
DRAWN: EK  
DESIGN: ST  
SECTION: B  
CHKD. BY: DATE: T-1-N, R-B-E.



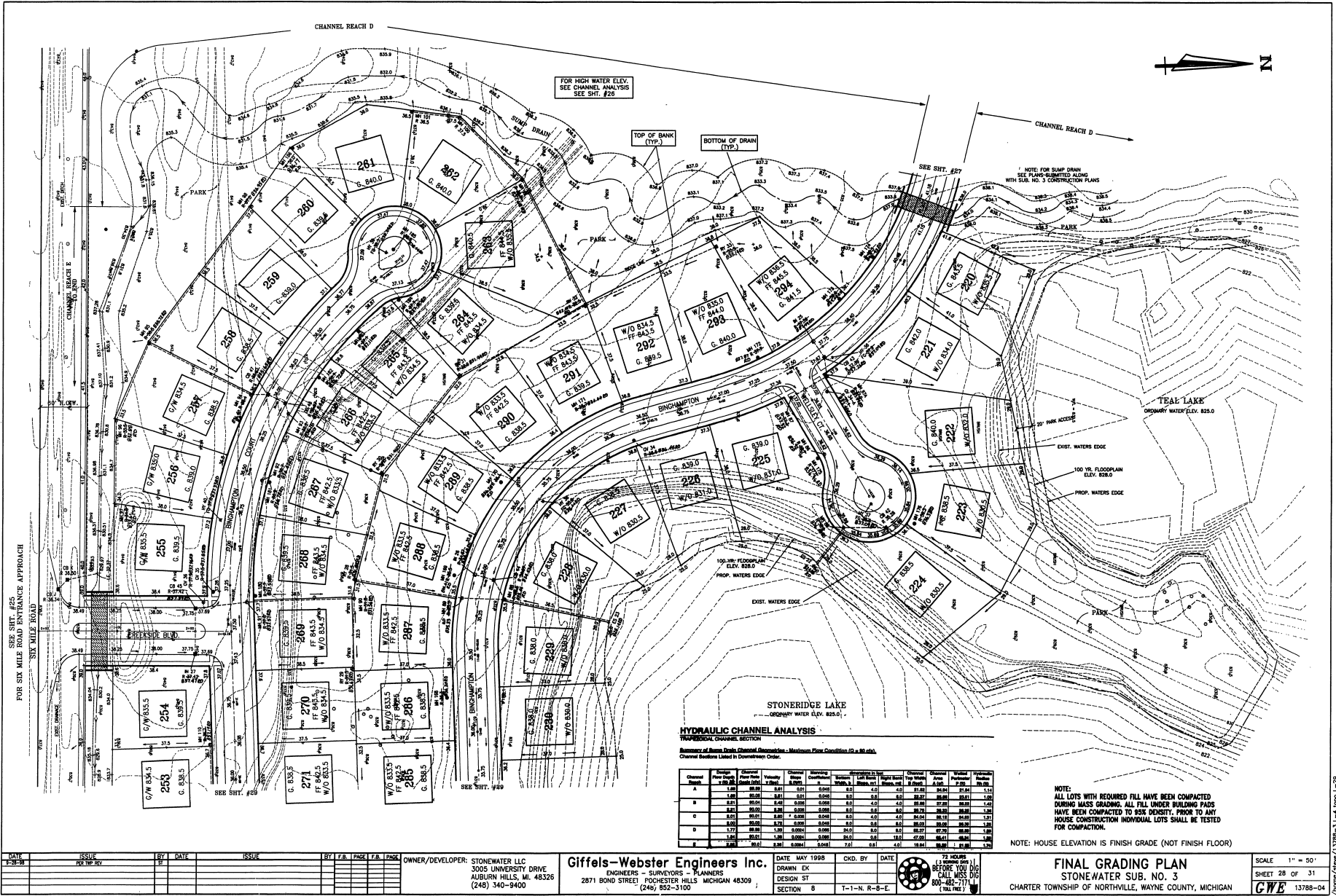
**FINAL GRADING PLAN**  
STONEWATER SUB. NO. 3  
CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
SHEET 27 OF 31  
GWB 13788-04

**STONEWATER III**

Name: gwe110/ahwe/13788-3 L-3 Top L-28





DATE	ISSUE	BY	DATE	ISSUE	BY	F.B.	P.N.K.	P.A.R.
1-28-81	PREP. REV.							

**OWNER/DEVELOPER:** STONERIDGE LLC  
3005 UNIVERSITY DRIVE  
AUBURN HILLS, MI 48326  
(248) 340-9400

**Giffels-Webster Engineers Inc.**  
ENGINEERS - SURVEYORS - PLANNERS  
2871 BOND STREET FOCHESTER HILLS MICHIGAN 48309  
(248) 852-3100

DATE MAY 1998 CND. BY DATE  
DRAWN EK  
DESIGN ST  
SECTION B T-1-N-R-8-E



**FINAL GRADING PLAN**  
STONEWATER SUB. NO. 3  
CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE 1" = 50'  
SHEET 28 OF 31  
GWE 13788-04

**STONEWATER III**

Home/Rev/13788-3-L-1 Topo L-28

FOR HIGH WATER ELEV. SEE SHT. #26  
 TOP OF BANK (TYP.)  
 BOTTOM DRAIN ELEV. (TYP.)

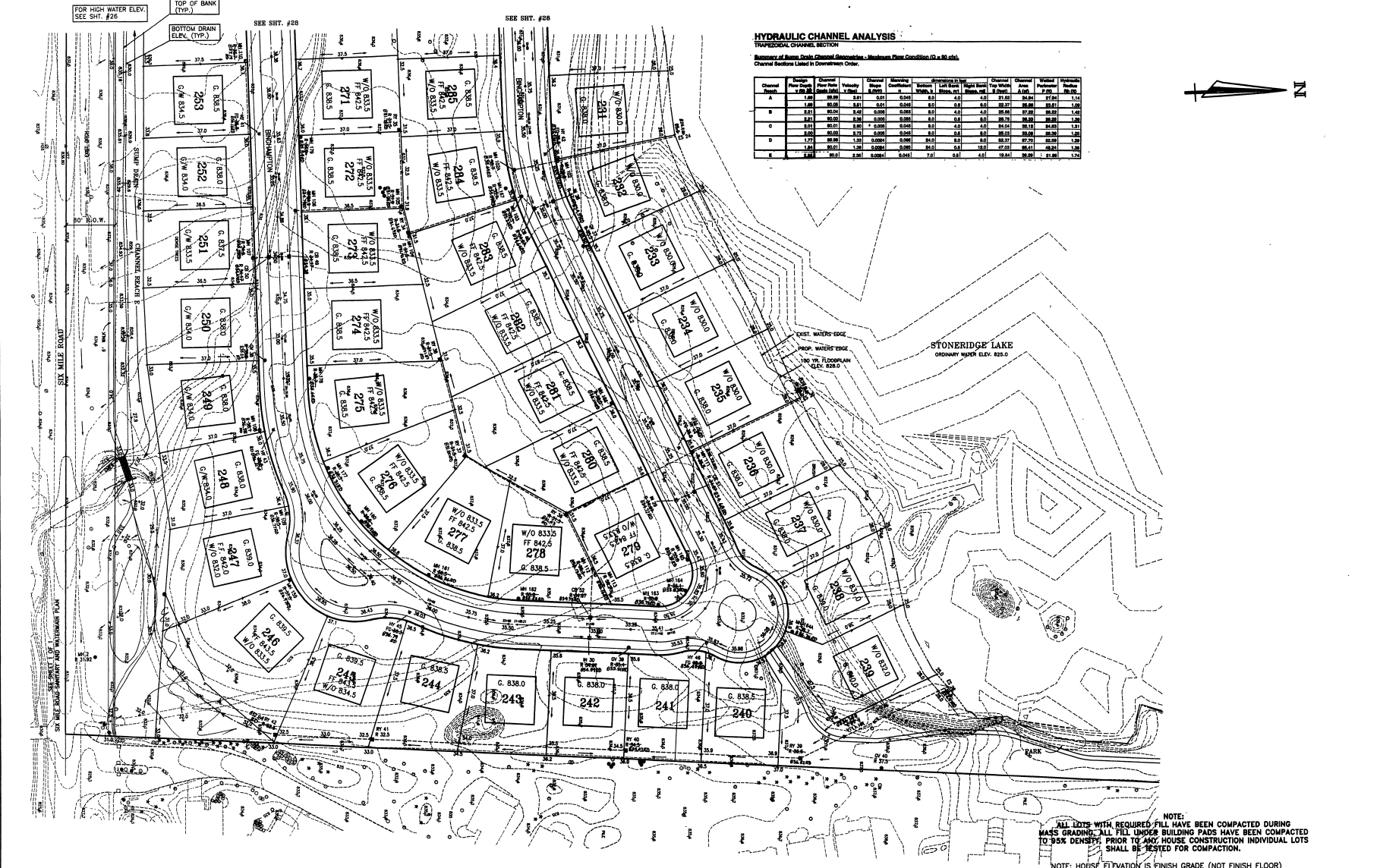
SEE SHT. #26

SEE SHT. #26

**HYDRAULIC CHANNEL ANALYSIS**  
 TRAPEZOIDAL CHANNEL SECTION

Summary of Storm Drain Channel Properties - Minimum Flow Condition (Q = 80 cfs)  
 Channel Sections Listed in Downstream Order.

Channel	Channel Length (ft)	Channel Slope (ft/ft)	Channel Bottom Elevation (ft)	Channel Top Elevation (ft)	Channel Width (ft)	Channel Depth (ft)	Channel Area (sq ft)	Channel Velocity (ft/s)	Channel Discharge (cfs)
A	1.00	0.000	271.0	271.0	10.0	0.0	0.0	0.0	0.0
B	2.71	0.004	270.0	270.0	10.0	0.0	0.0	0.0	0.0
C	3.01	0.001	269.0	269.0	10.0	0.0	0.0	0.0	0.0
D	1.72	0.008	268.0	268.0	10.0	0.0	0.0	0.0	0.0
E	1.72	0.001	267.0	267.0	10.0	0.0	0.0	0.0	0.0



NOTE:  
 ALL LOTS WITH REQUIRED FILL HAVE BEEN COMPACTED DURING MASS GRADING. ALL FILL UNDER BUILDING PADS HAVE BEEN COMPACTED TO 95% DENSITY. PRIOR TO ANY HOUSE CONSTRUCTION INDIVIDUAL LOTS SHALL BE TESTED FOR COMPACTION.  
 NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	DATE	ISSUE
12-15-98	FOR TWP REV	JK	07/99				
12-15-98	FOR 12-15-98 TWP REVIEW	JK	07/99				

OWNER/DEVELOPER: STONWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET, ROCHESTER HILLS, MICHIGAN 48309  
 (248) 652-3100

DATE: MAY 1998  
 DRAWN: EK  
 DESIGN: ST  
 SECTION: B  
 CKD: BY: DATE:  
 T-1-N, R-6-E.



**FINAL GRADING PLAN**  
 STONWATER SUB. NO. 3  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
 SHEET 29 OF 31  
 GWE 13788-04

**STONWATER III**

13788-3, C-5, 1005, L-30

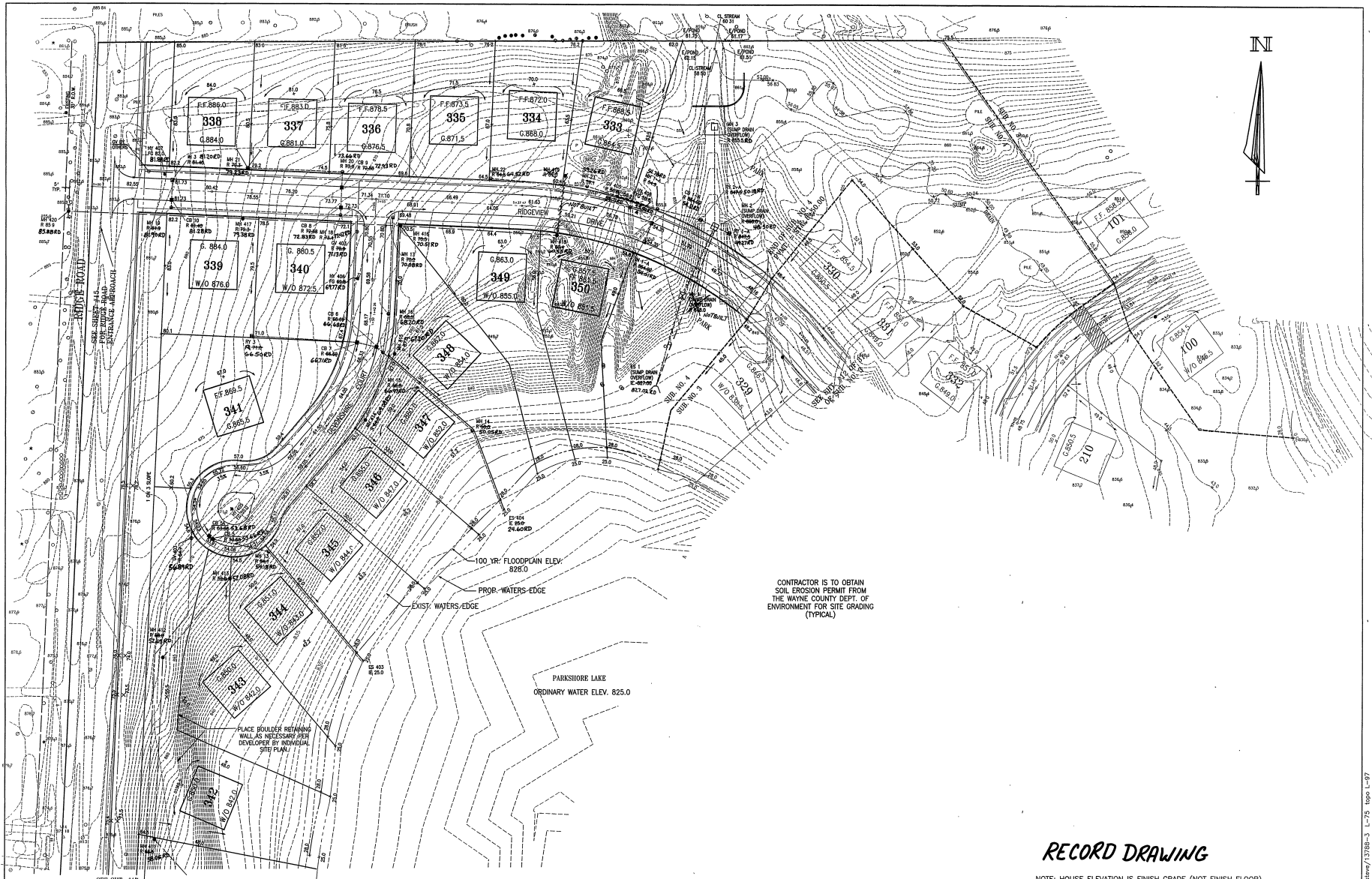
# STONEWATER

## SUB'S. NO. 4 & 5

VILLE TOWNSHIP, WAYNE COUNTY, MI  
 A PART OF SECTION 8, T-1-S R-8-E



S  
I  
P  
4  
G  
L  
O  
S  
A  
O  
W



CONTRACTOR IS TO OBTAIN SOIL EROSION PERMIT FROM THE WAYNE COUNTY DEPT. OF ENVIRONMENT FOR SITE GRADING (TYPICAL)

### RECORD DRAWING

NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	REVISION	BY	ISSUE	NO.	T.B.	PAGE	T.B.	PAGE
11/23/99	PER W.C. REVIEW	JMK						
1/24/00	PER TOWNSHIP REVIEW	JMK						
2/24/00	PER W.C. REVIEW	JMK						
3-31-00	REV LOTS / STORM PER DEVELOPER	JMK						

OWNER/DEVELOPER: STONEWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI. 48326  
 (248) 340-9400

**Giffels-Webster Engineers Inc.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

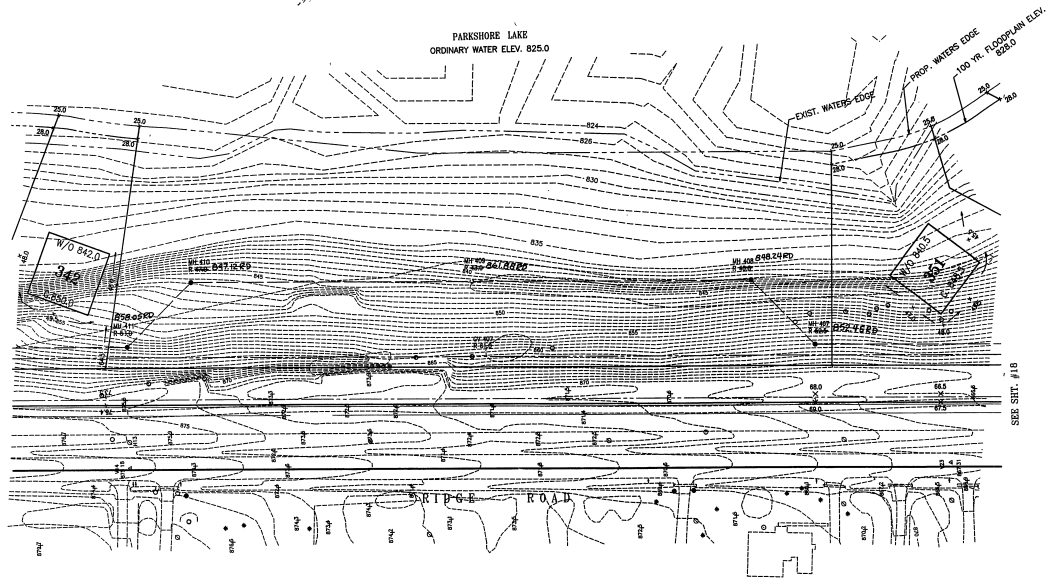
DATE	12-98	CHKD. BY	DATE
DRAWN	JK		
DESIGN	JK		
SECTION	8	T-1-N, R-8-E	



FINAL GRADING PLAN  
 STONEWATER PHASE IV  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE 1" = 50'  
 SHEET 16 OF 46  
**GWE** 13788-04  
 STONEWATER

/Users/gwe110/naevr/13788-3 L-75 16pp L-97



**RECORD DRAWING**  
NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	F.B.	PAGE	F.B.	PAGE
11/23/99	PER W.C. REVIEW	JMK	11/23/99	REVISE WATER MAIN - AND LOOP	JMK				
11/23/99	PER TOWNSHIP REVIEW	JMK							
12/3/00	PER W.C. REVIEW	JMK							
2/4/00	PER TOWNSHIP REVIEW	JMK							
3-31-00	PER TWP. REVIEW	JMK							

OWNER/DEVELOPER: STONEWATER LLC  
3005 UNIVERSITY DRIVE  
AUBURN HILLS, MI. 48326  
(248) 340-9400

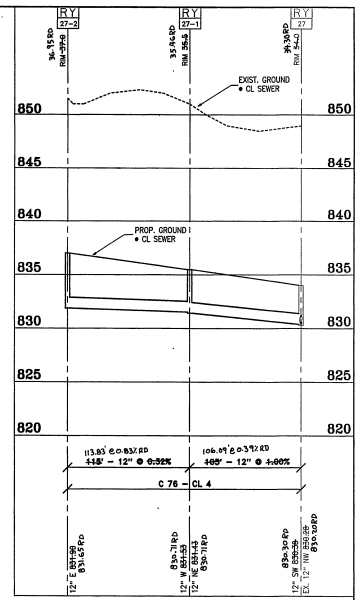
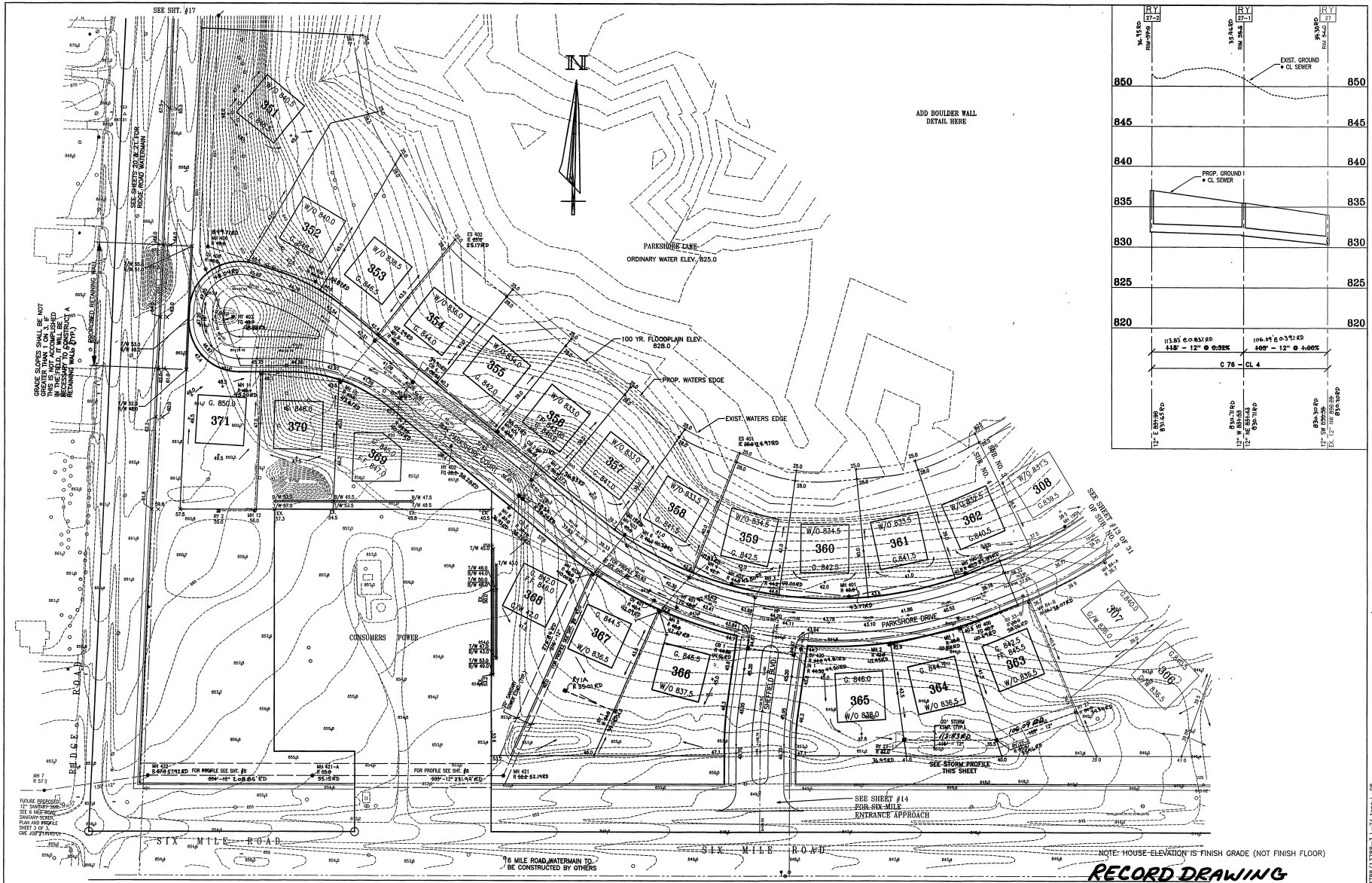
**Giffels-Webster Engineers Inc.**  
ENGINEERS - SURVEYORS - PLANNERS  
2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
(248) 852-3100

DATE 12-98 CKD. BY DATE  
DRAWN JK  
DESIGN JK  
SECTION 8 T-1-N. R-B-E



**FINAL GRADING PLAN**  
STONEWATER PHASE IV  
CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE 1" = 50'  
SHEET 17 OF 46  
GWE 13788-04



DATE	ISSUE	BY	DATE	ISSUE	BY	DATE	ISSUE	BY	DATE	ISSUE	BY
1-28-00	REVISED GRADING & SAN. EXH. PER DEVELOPER	JMK	2-31-00	PER W.C. REVIEW	JMK						
2-4-00	PER DEV. REVIEW	JMK	2-24-00	PER MICHAEL PERM REVIEW	JMK						
2-4-00	PER W.C. REVIEW	JMK	07-19-01	REVISION SAN. MHI 222 PER MICHAEL	JMK						
5-31-00	PER DEV. REVIEW	JMK	08-25-00	WORK WATER MAIN - ADD LOOP	JMK						
5-31-00	REVISED LOTS & SAN. EXH. PER DEVELOPER	JMK									

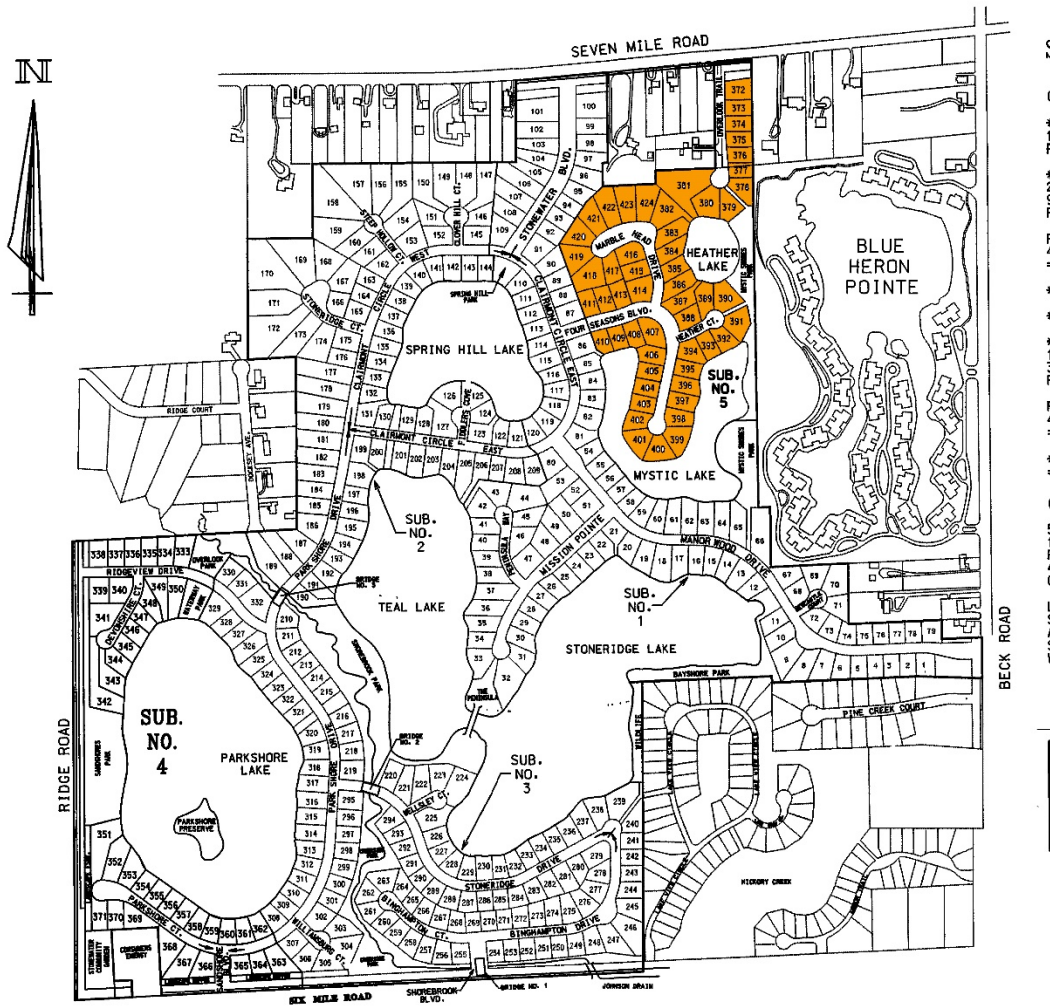
OWNER/DEVELOPER: STONewater LLC 3005 UNIVERSITY DRIVE AUBURN HILLS, MI. 48326 (248) 340-9400	Giffels-Webster Engineers Inc. ENGINEERS - SURVEYORS - PLANNERS 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309 (248) 852-3100	DATE 12/98 DRAWN JMK DESIGN SECTION 8	CHKD. BY DATE T-1-N-R-S-E	72 HOURS BEFORE YOU DIG CALL MISS DIG 800-482-7171 CIVIL INC.	SCALE 1" = 50' SHEET 18 OF 46 GWE 13788-04	FINAL GRADING PLAN STONewater SUB. NO. 4 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN STONewater No. 4
---	---	--	------------------------------	---	--	---

I:\home\gweb\13788\13788-3 L-74 topo L-88

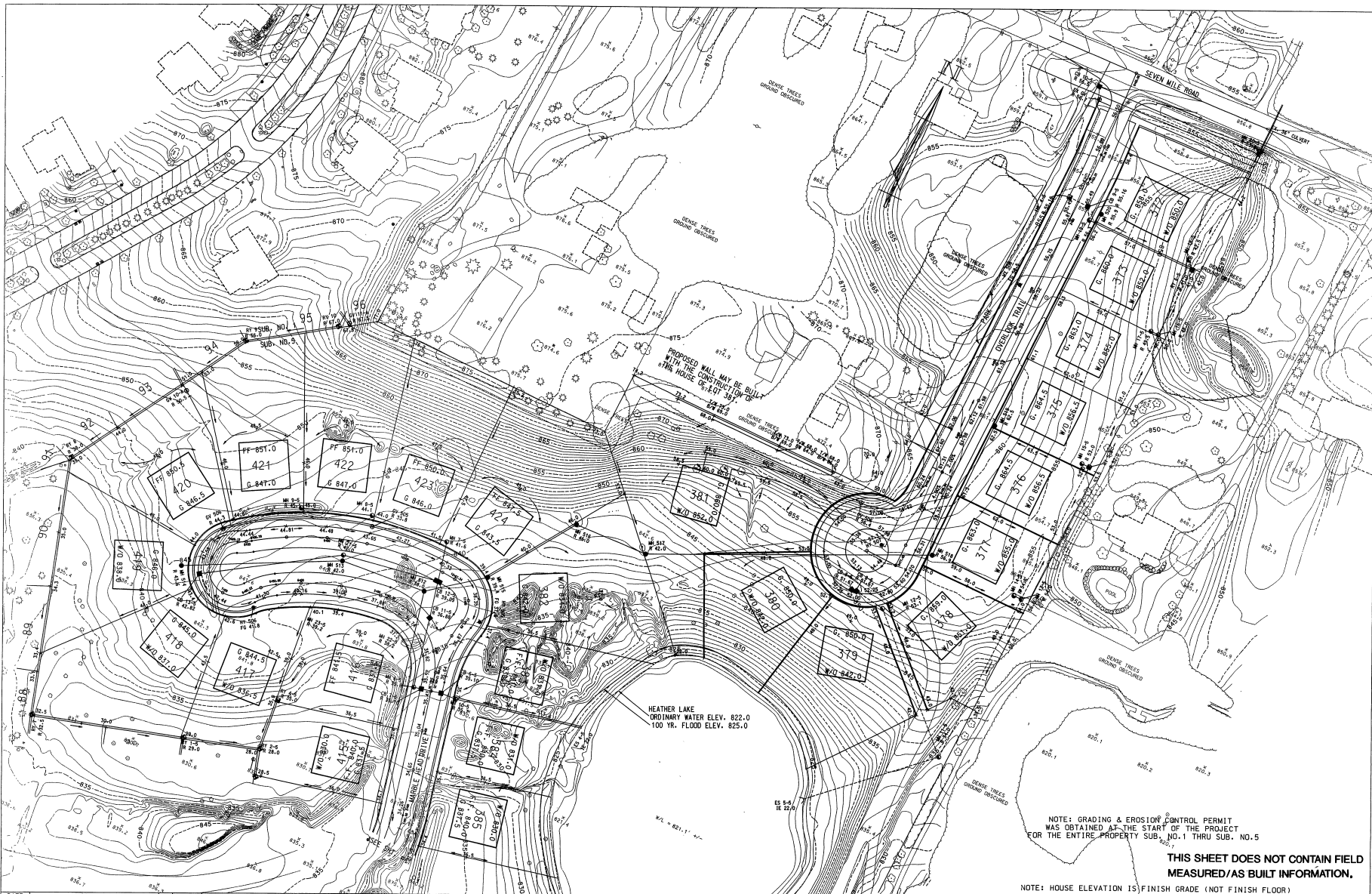
# STONEWATER

## SUB'S. NO. ~~4~~ & 5

LE TOWNSHIP, WAYNE COUNTY, MI  
PART OF SECTION 8, T-1-S R-8-E



C  
 ( \* 1 P \* 2 0 P P 4 = \* \* 1 U P P 4 = \* \* ) S I P 4 G L S H A M W



NOTE: GRADING & EROSION CONTROL PERMIT WAS OBTAINED AT THE START OF THE PROJECT FOR THE ENTIRE PROPERTY SUB. NO.1 THRU SUB. NO.5

**THIS SHEET DOES NOT CONTAIN FIELD MEASURED/AS BUILT INFORMATION,**

NOTE: HOUSE ELEVATION IS FINISH GRADE (NOT FINISH FLOOR)

DATE	ISSUE	BY	DATE	ISSUE	BY	DATE	ISSUE
11/23/98	PER TOWNSHIP REVIEW	ST	1/17/99	PER MC REVIEW	ST		
1/23/99	PER MC REVIEW	ST	1/25/99	REVISED GRADING NORTH OF LOT 381	ST		
2/4/00	PER TOWNSHIP REVIEW	ST	2/26/00	AS BUILT SUBMITTAL TO TWP	ST		
2/4/00	PER MC REVIEW	ST					
3-31-00	PER TOWNSHIP REVIEW	ST					

OWNER/DEVELOPER: STONEWATER LLC  
 3005 UNIVERSITY DRIVE  
 AUBURN HILLS, MI. 48326  
 (248) 340-9400

**Giffels-Webster Engineers**  
 ENGINEERS - SURVEYORS - PLANNERS  
 2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
 (248) 852-3100

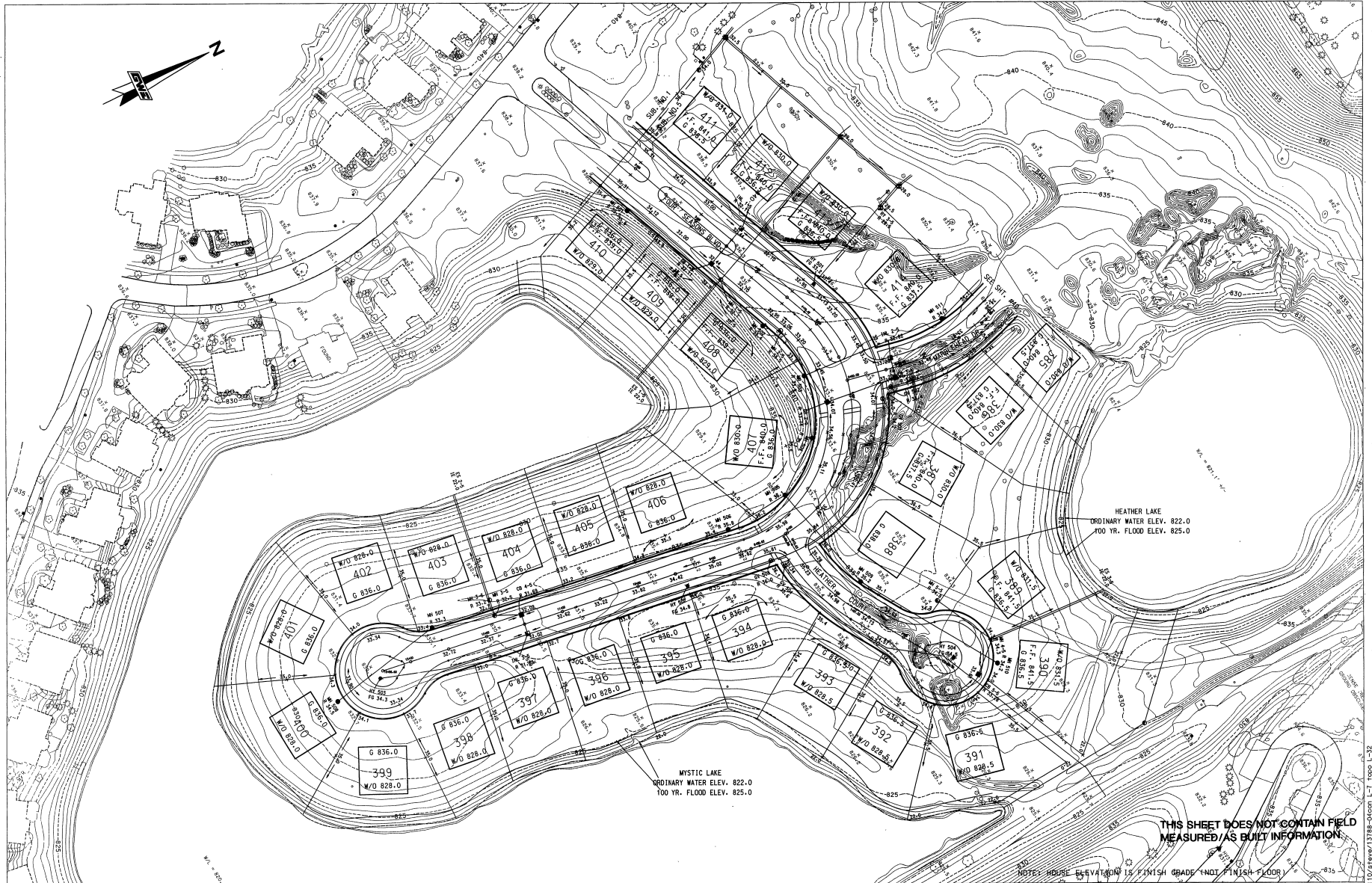
DATE: 2-2-08  
 DRAWN BY: [Signature]  
 DESIGN BY: [Signature]  
 SECTION: 8  
 CKD. BY: [Signature]  
 DATE: [Signature]  
 T-1-N, R-8-E.

**FINAL GRADING PLAN**  
 STONEWATER SUB. NO.5  
 CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
 SHEET 40 OF 46  
 GWE 13788-04

7/1 853/13788/13788-0400-6 - 1890 L-31





DATE	ISSUE	BY	DATE	ISSUE	BY	F.B. #	PAGE	F.B. #	PAGE
11-21-06	PER TWP. REV.	ST	3-31-06	PER REV.	ST				
11-21-06	PER REV.	ST	2-28-06	AS BUILT SUBMITTAL TO TWP.	ST				
2-2-06	PER TWP. REV.	ST							
2-2-06	PER REV.	ST							
3-31-06	PER TWP. REV.	ST							

OWNER/DEVELOPER: STONEWATER LLC  
3005 UNIVERSITY DRIVE  
AUBURN HILLS, MI. 48226  
(248) 340-3400

**Giffels-Webster Engineer**  
ENGINEERS - SURVEYORS - PLANNERS  
2871 BOND STREET ROCHESTER HILLS MICHIGAN 48309  
(248) 852-3100

DATE: 12-28  
DRAWN BY: ST  
DESIGN BY: ST  
SECTION: 8



FINAL GRADING PLAN  
STONEWATER SUB. NO. 5  
CHARTER TOWNSHIP OF NORTHVILLE, WAYNE COUNTY, MICHIGAN

SCALE: 1" = 50'  
SHEET 41 OF 46  
GWE 13788-04

User: gwebster\gwebster\13788-04.dwg, L: 1, Page: 1-32