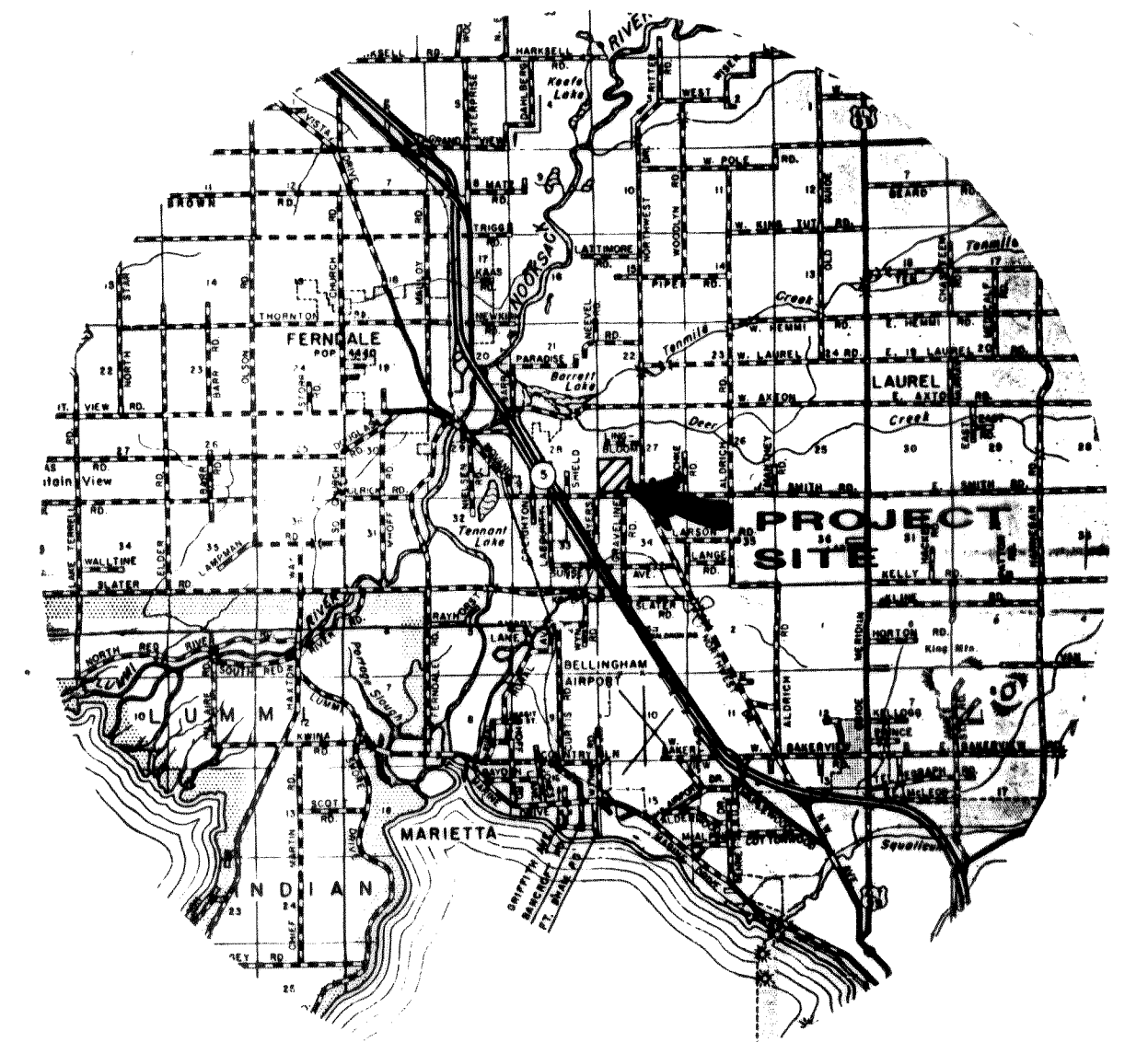




Gene Bouma
DEVELOPMENT INC.



VICINITY MAP

BELLAIRE ESTATES

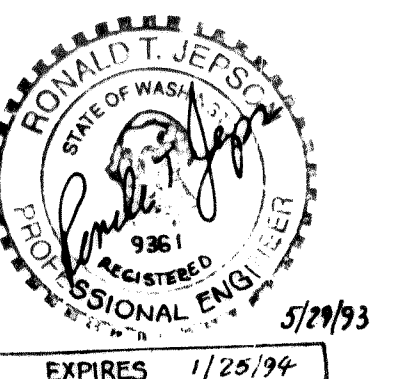
INDEX OF SHEETS

1. ROAD AND DRAINAGE PLAN
2. SANITARY SEWER PLAN
3. WATER DISTRIBUTION SYSTEM PLAN
4. ROAD AND DRAINAGE PROFILES
5. SANITARY SEWER PROFILES
6. SEWAGE PUMP STATION
7. DETAILS
8. SANITARY SEWER PUMP STATION DETAILS
9. DRAINAGE POND & SMITH ROAD

DRAWING APPROVAL
REVIEWED FOR GENERAL COMPLIANCE WITH
CONTRACT DOCUMENTS, COUNTY STANDARDS
AND RESPONSIBILITY FOR THE DESIGN
AND CONSTRUCTION OF THE PROJECT
DIVISION OF ENGINEERING
Michael D. Dineen 9/8/93

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH 1991 WSDOT/APWA STANDARD SPECIFICATIONS, WHATCOM COUNTY DEVELOPMENT STANDARDS AND SHALL BE SUBJECT TO APPROVAL BY WHATCOM COUNTY PUBLIC WORKS DEPARTMENT, DIVISION OF ENGINEERS.
2. DEVELOPER SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WHATCOM COUNTY DIVISION OF ENGINEERS A MINIMUM OF 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
3. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE RIGHT-OF-WAY.
4. DEVELOPER SHALL CONTACT UTILITY LOCATION SERVICE 48 HOURS PRIOR TO STARTING CONSTRUCTION AT 1-800-424-5555.
5. ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DIVISION, CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE FOR COUNTY INSPECTION AS FOLLOWS:
 - A. PLACEMENT OF TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES.
 - B. PLACEMENT OF WATERLINE AND BACKFILLING OF WATERLINE WITHIN ROAD RIGHT-OF-WAY.
 - C. PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHT-OF-WAY.
 - D. ROADWAY GRADING AT:
 1. COMPLETION OF SUBGRADE.
 2. COMPLETION OF BALLAST.
 3. COMPLETION OF CRUSHED SURFACING.
 - E. POURING OF CURB/GUTTER AND SIDEWALK.
 - F. ASPHALT PAVING IN PROGRESS.
 - G. OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
 - H. END OF MAINTENANCE PERIOD.
6. ANY TESTING REQUIRED FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE OWNER AND SHALL BE IN CONFORMANCE WITH WHATCOM COUNTY DEVELOPMENT STANDARDS.
7. STORM PIPE SHALL BE OF AN APPROVED MATERIAL AND OF THE SIZE NOTED ON THE PLANS.
8. DEVELOPER SHALL RIP RAP ALL CULVERT INLETS AND OUTLETS.
9. DEVELOPER SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
10. DEVELOPER SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM WHATCOM COUNTY DIVISION OF ENGINEERS OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL KEEP RECORD OF DEVIATIONS AND FORWARD TO THE ENGINEER AND WHATCOM COUNTY DIVISION OF ENGINEERS.
11. DEVELOPER SHALL POST A MAINTENANCE SECURITY AS REQUIRED BY THE COUNTY ENGINEER FOR BOTH TIME AND AMOUNT.
12. ENGINEER WILL PROVIDE CERTIFIED AS-BUILT MYLARS TO WHATCOM COUNTY DIVISION OF ENGINEERS UPON PROVISIONAL ACCEPTANCE OF NEW ROADS (SECTION 2.002 WCDs).



DRAWING APPROVAL
REVIEW IS FOR GENERAL COMPLIANCE WITH
CONTRACT DOCUMENTS/COUNTY STANDARDS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
BY *[Signature]* DATE 9/93

BYERS
ROADSMITH
ROAD

CB #1 M.H.
RIM 91.20
INV 85.80
CB #2 M.H.
RIM 90.60
INV 85.80
CB #3 M.H.
RIM 90.60
INV 85.80
CB #4 M.H.
RIM 90.60
INV 85.80
CB #5 M.H.
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INV 85.80
CB #6 M.H.
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CB #7 M.H.
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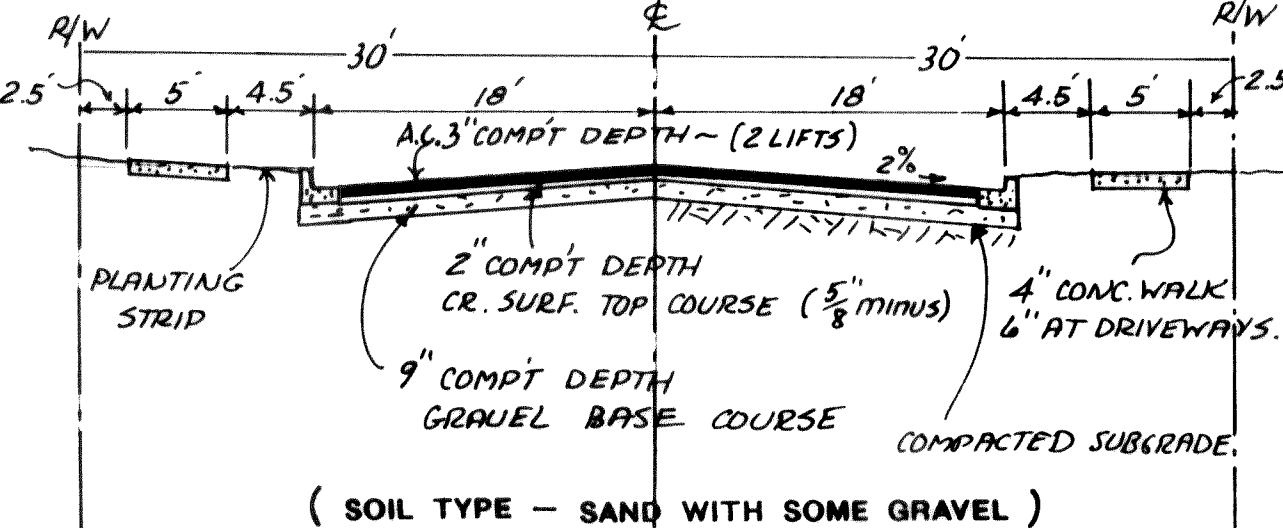
TRACT A — DRAINAGE RETENTION (See Detail Sht 9410)

GENERAL NOTES:

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE A.P.W.A. STANDARDS SPECIFICATIONS, 1991 EDITION, AND ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF FERNDALE.

ALL TESTING AS REQUIRED SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE COUNTY ENGINEER'S OFFICE.
THE ENGINEER WILL SUBMIT THE PLANS TO THE WHATCOM COUNTY FOR APPROVAL. CONSTRUCTION IS PROHIBITED UNTIL SUCH APPROVAL IS RECEIVED.

ALL LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY TRUE AND CORRECT LOCATIONS.



TYPICAL ROAD SECTION

THIS WORK SHALL INCLUDE ALL EXCAVATION AND EMBANKMENT FOR STREETS, THE PREPARATION OF SUBGRADE, AND INSTALLATION OF BASE AND PAVING.

*NOTE: STORM SYSTEM
ALL PIPE INSTALLED CORRUGATED HDPE
SMOOTH INTERIOR, HANCOCK PIPE

ENTRANCE DETAIL

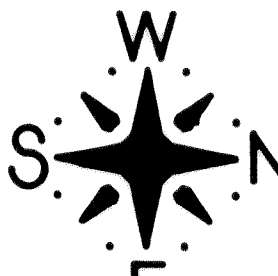
BELFERN ESTATES DIV. NO. 2

LEGEND

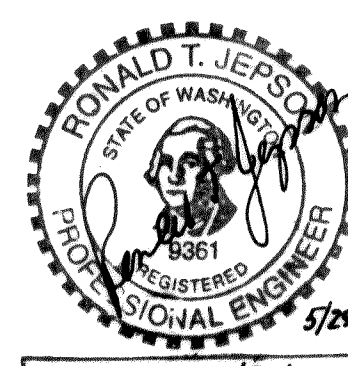
- STOP SIGN LOCATION & ROAD NAME SIGNS.
- CATCH BASINS.
- WHEEL CHAIR RAMPS (SEE DETAIL SHEET 8 OF 10.)

* NOTE

THUR - CURB GRATE TO BE USED ON THESE CATCH BASINS ONLY.
CB #2 INLET #10 B
INLET #2A CB #9
CB #5 INLET #9 A
CB #10, 12, 13



SCALE 1"=50'



ASBUILT
RD. & DRAINAGE PLAN

BELLARE ESTATES

1 OF 9

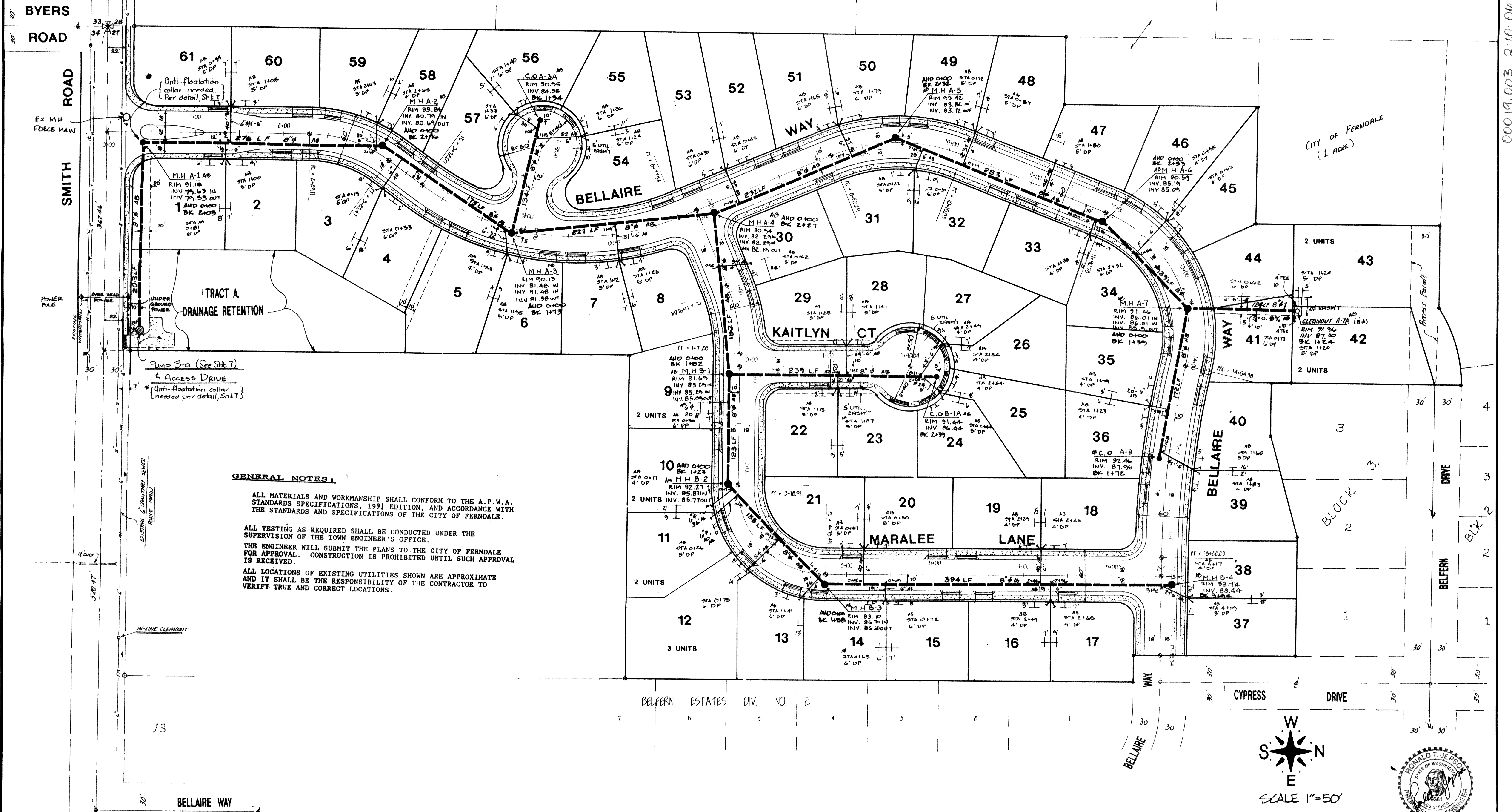
93066

RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225

SCALE	1"=50'
DRAWN BY	B.L.
CHECKED BY	R.T.J.
APPROVED BY	R.T.J.
DATE	5-10-93

REVISION	
8/24/93	R.T.J.
ASBUILT 4-4-94	J.B.
REV 4-15-94	J.B.

CLIENT:
Gene Bouma
DEVELOPMENT INC.



GENERAL NOTES:

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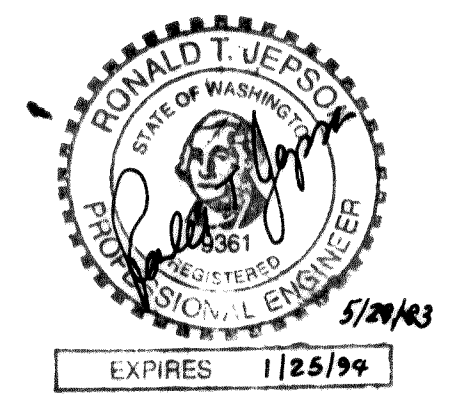


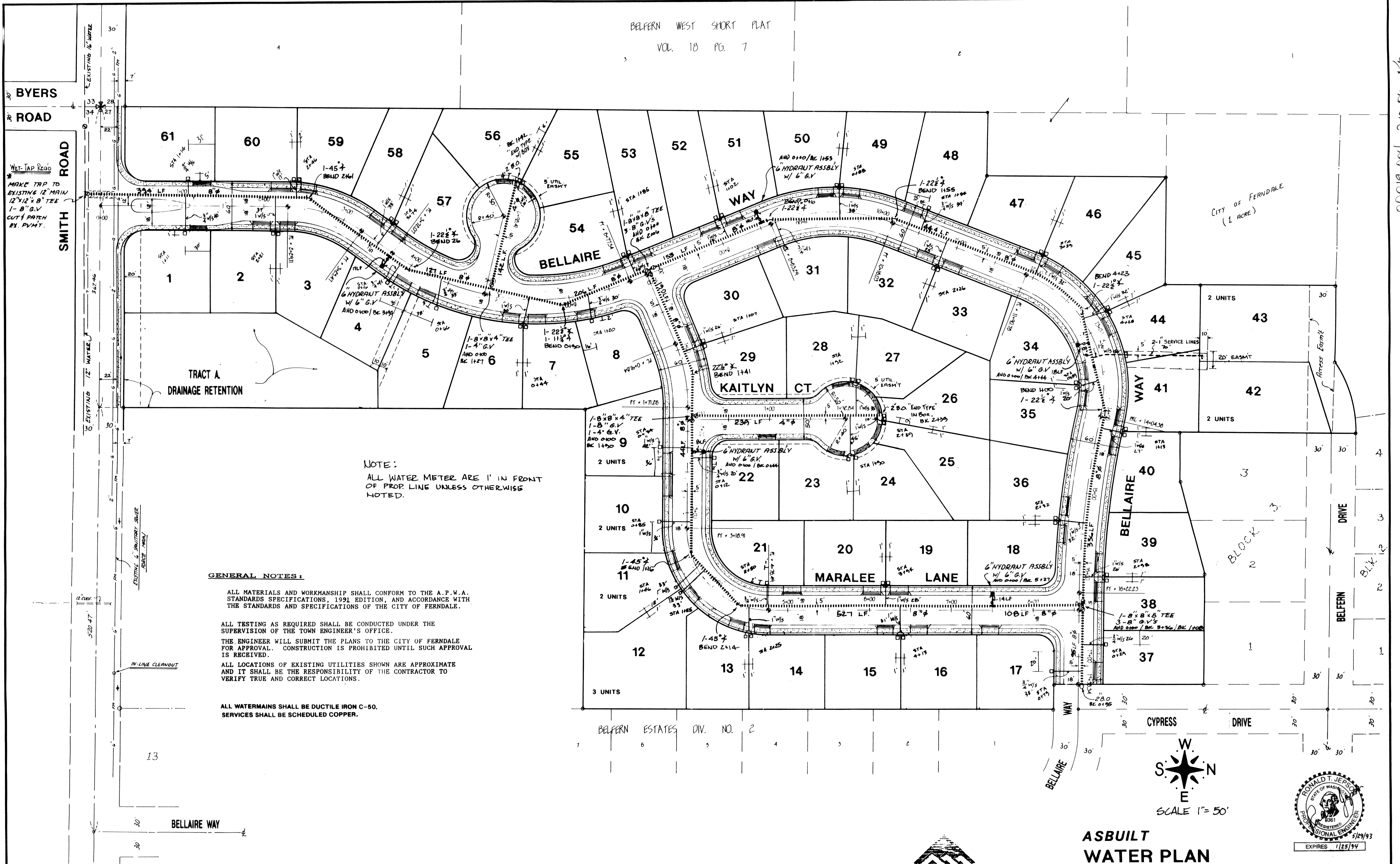
SCALE	1"=50'
DRAWN BY	B.L.
CHECKED BY	R.T.J.
APPROVED BY	R.T.J.
DATE	5-10-93
REVISION	5-10-93
BY	R.T.J.
DATE	4-9-93

CLIENT:
Gene Bouma
DEVELOPMENT INC.

**ASBUILT
SANITARY SEWER PLAN**

BELLAIRE ESTATES





NOTE:
ALL WATER METER ARE 1' IN FRONT
OF PROP. LINE UNLESS OTHERWISE
NOTED.

GENERAL NOTES:

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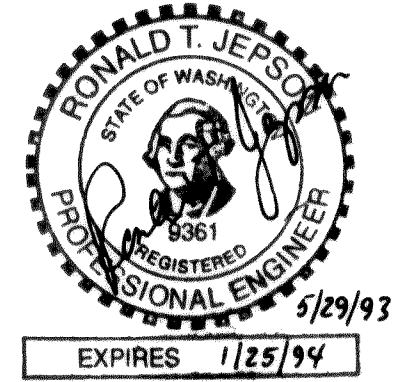
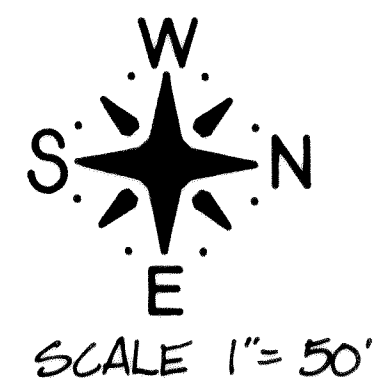
ALL WATERMANS SHALL BE DUCTILE IRON C-50.
SERVICES SHALL BE SCHEDULED COPPER.

SCALE	1"=50'
DRAWN BY	B.L.
CHECKED BY	R.T.J.
APPROVED BY	R.T.J.
DATE	6-10-93

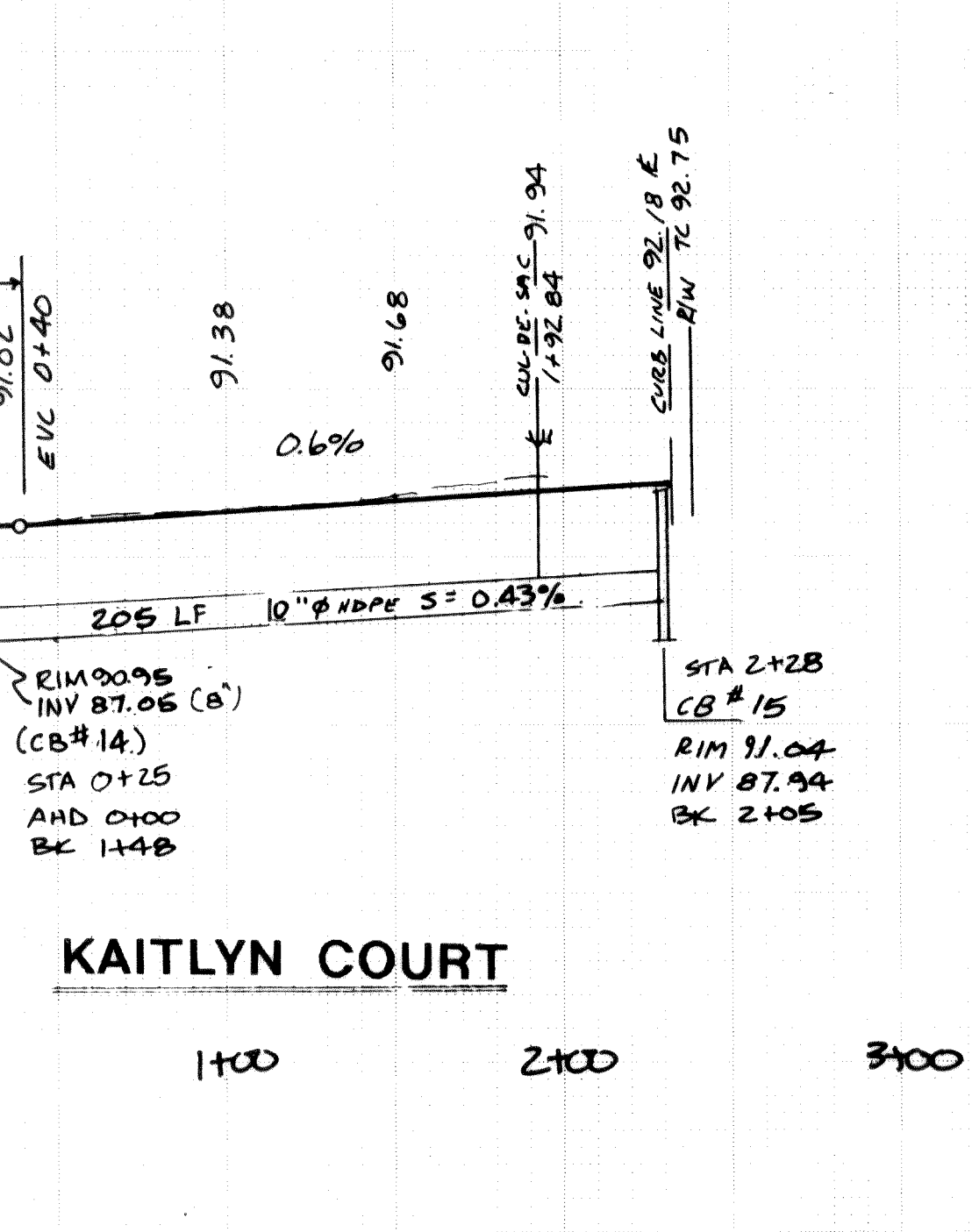
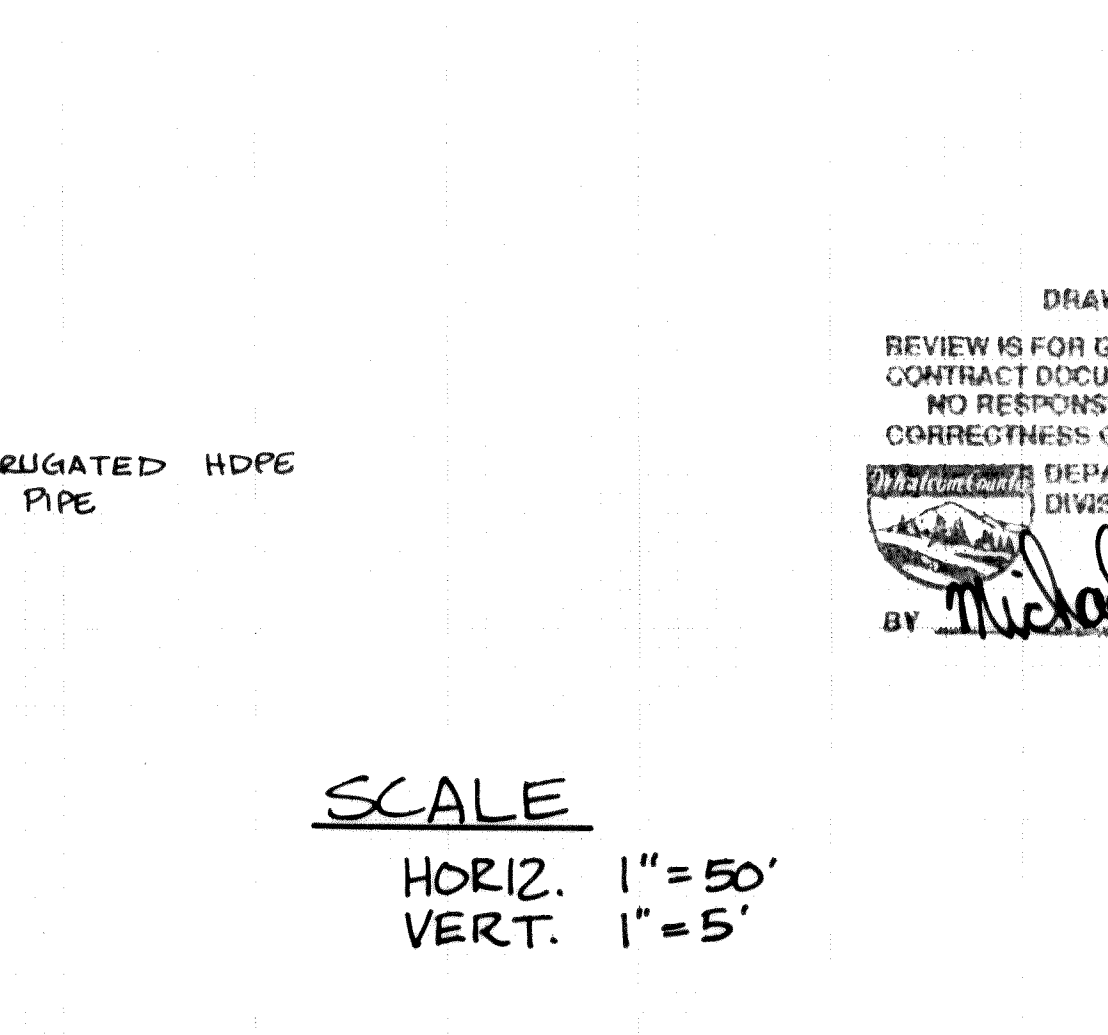
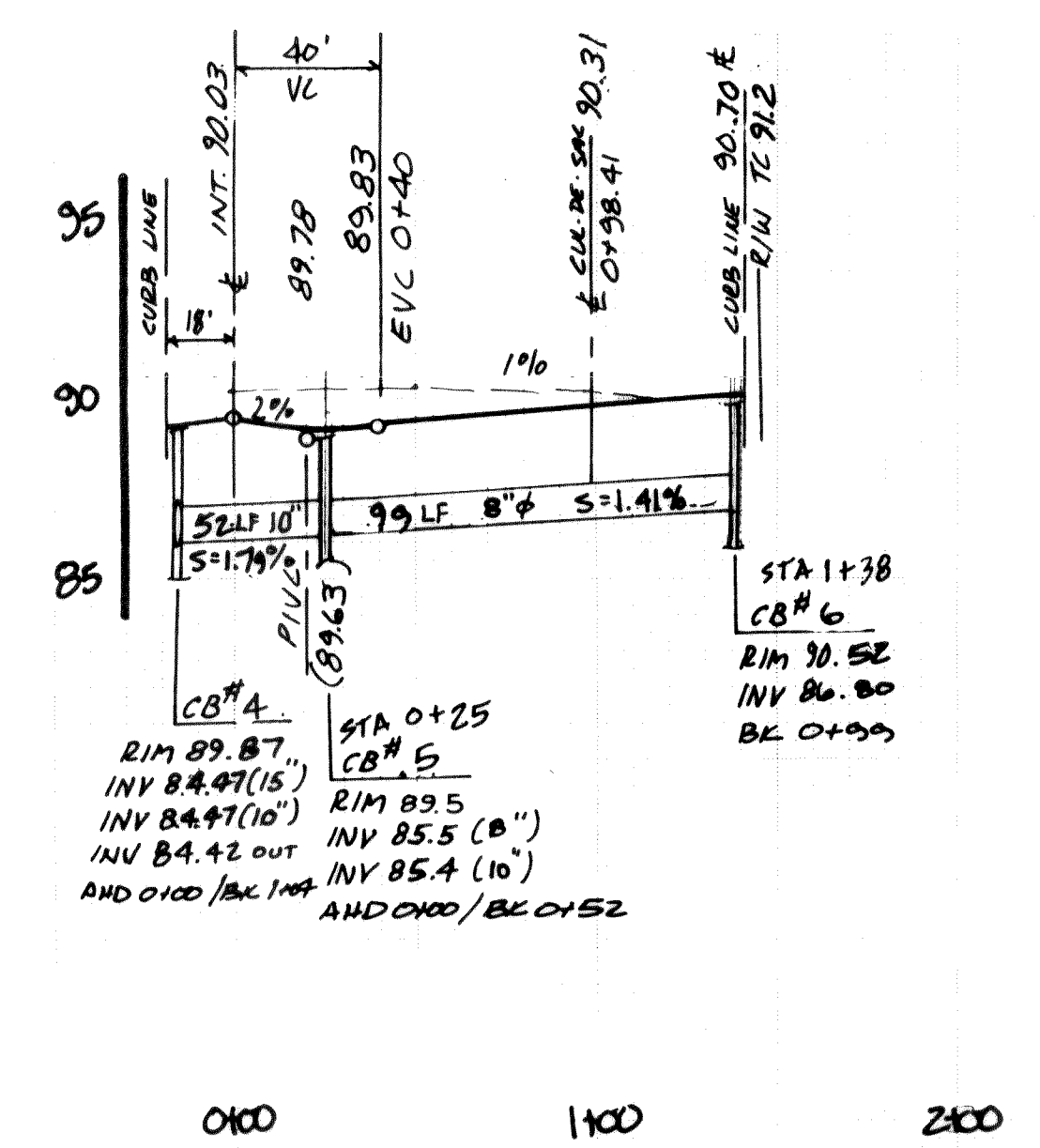
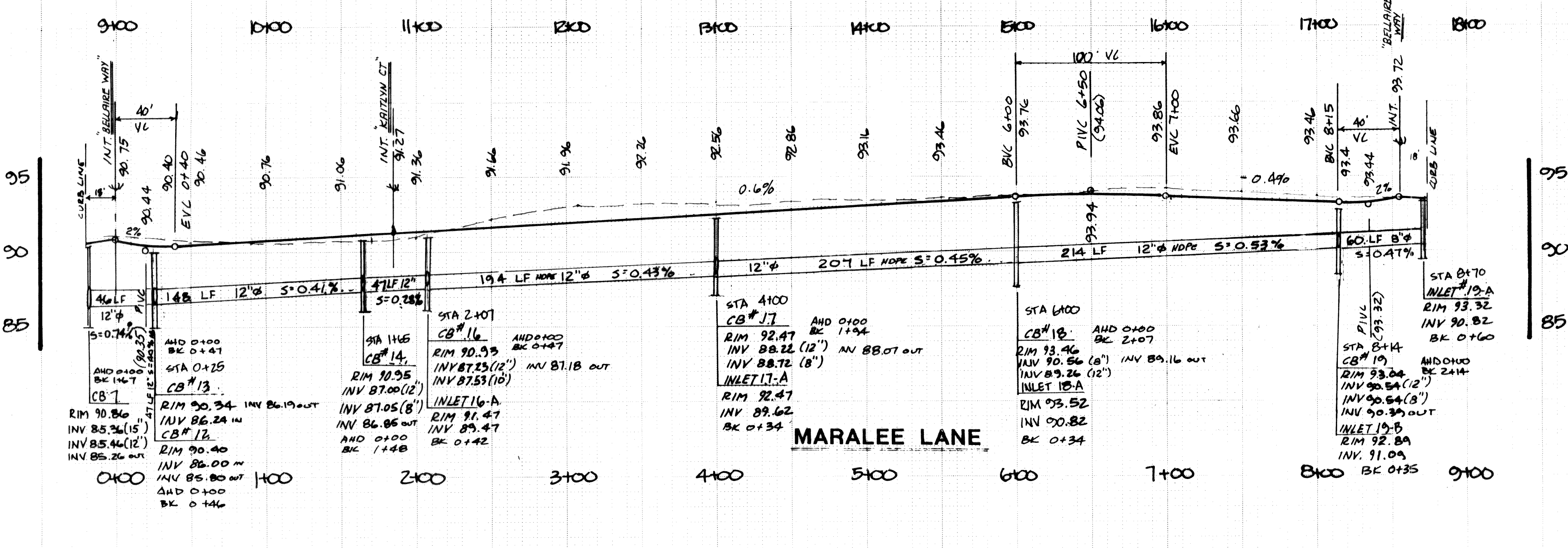
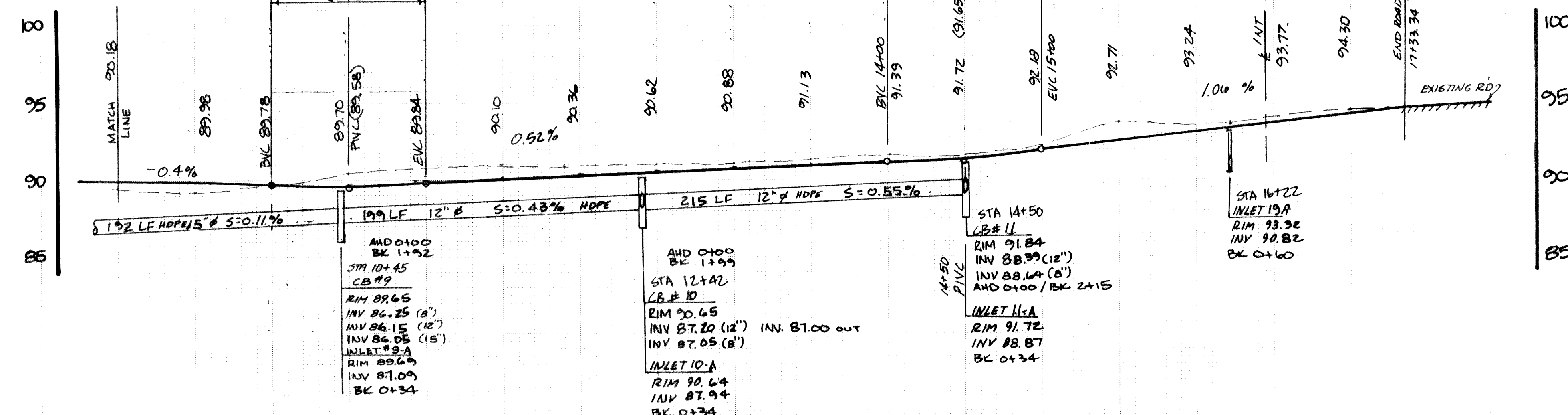
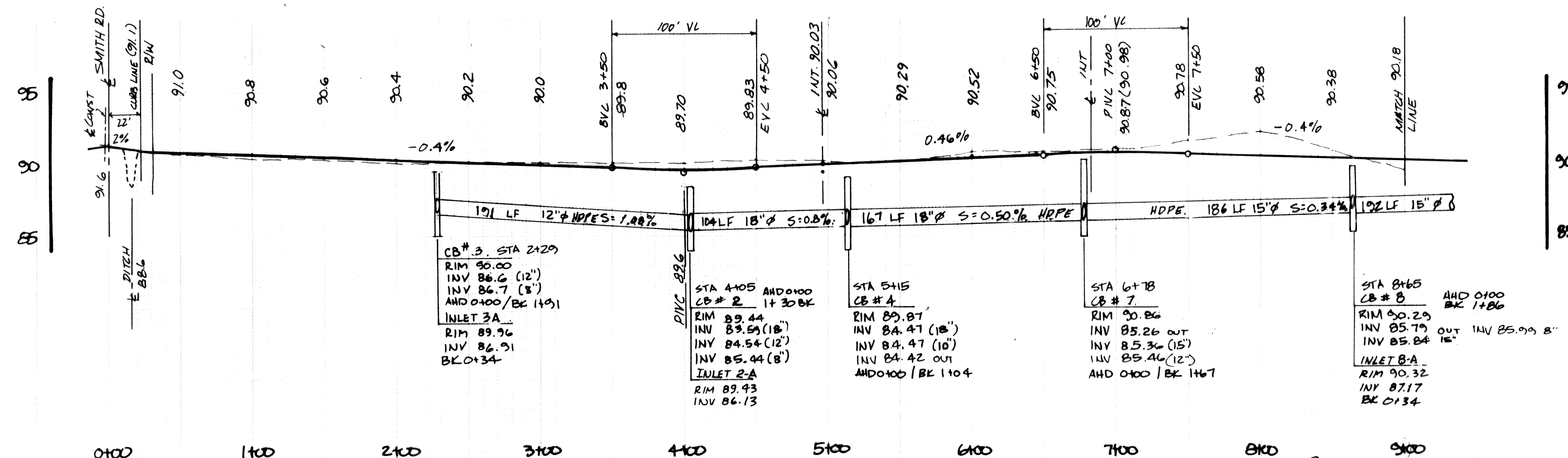
REVISION	
6-10-93	
8-23-93	R.T.J.
4-5-94	ASBUILT J.B.

CLIENT:
Gene Bouma
DEVELOPMENT INC.

ASBUILT
WATER PLAN
BELLAIRE ESTATES



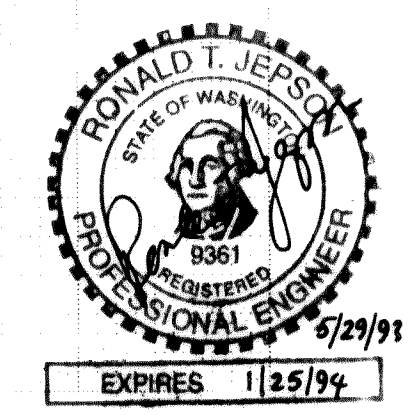
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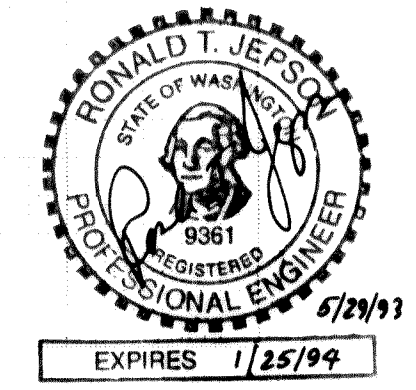
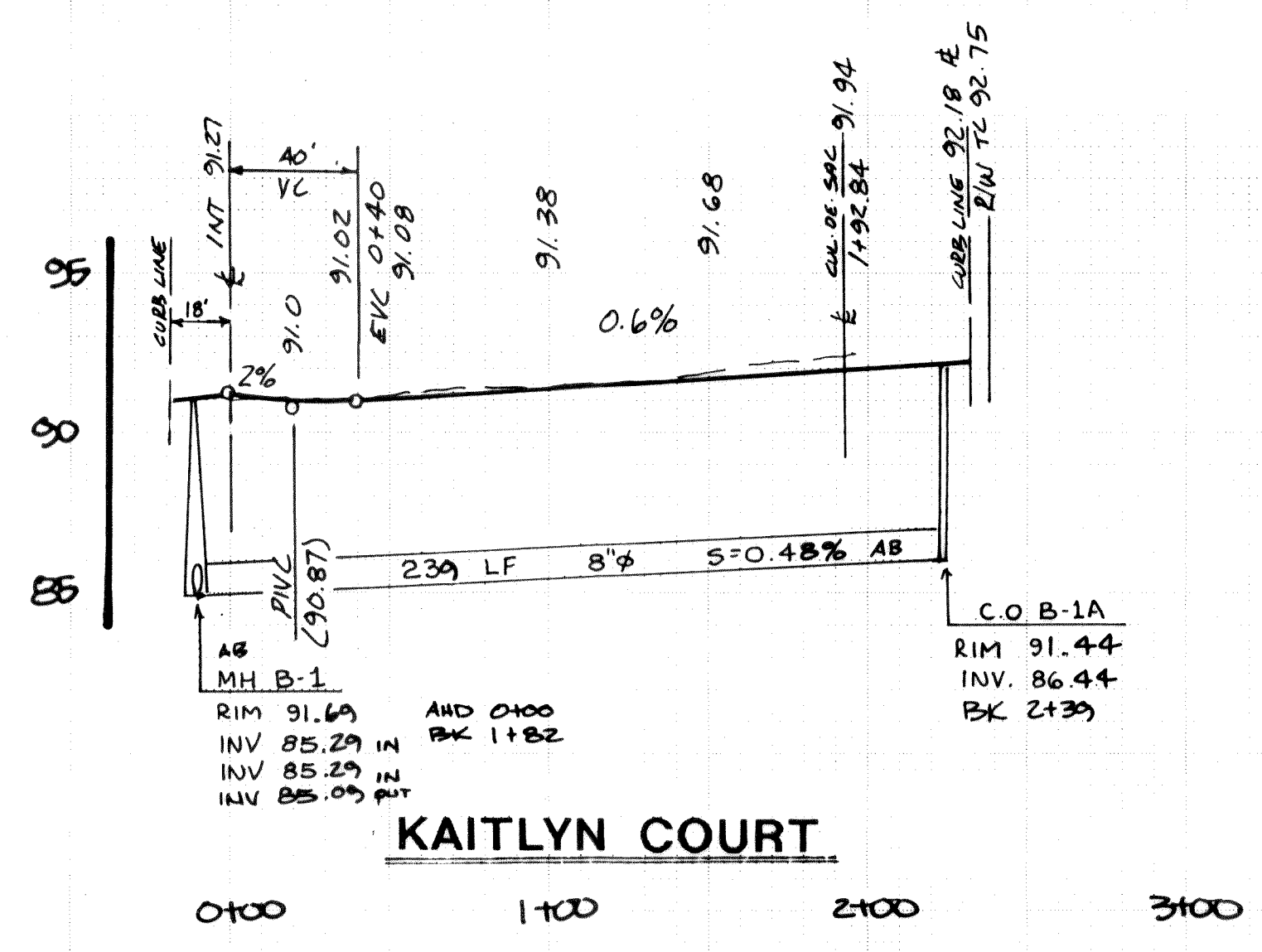
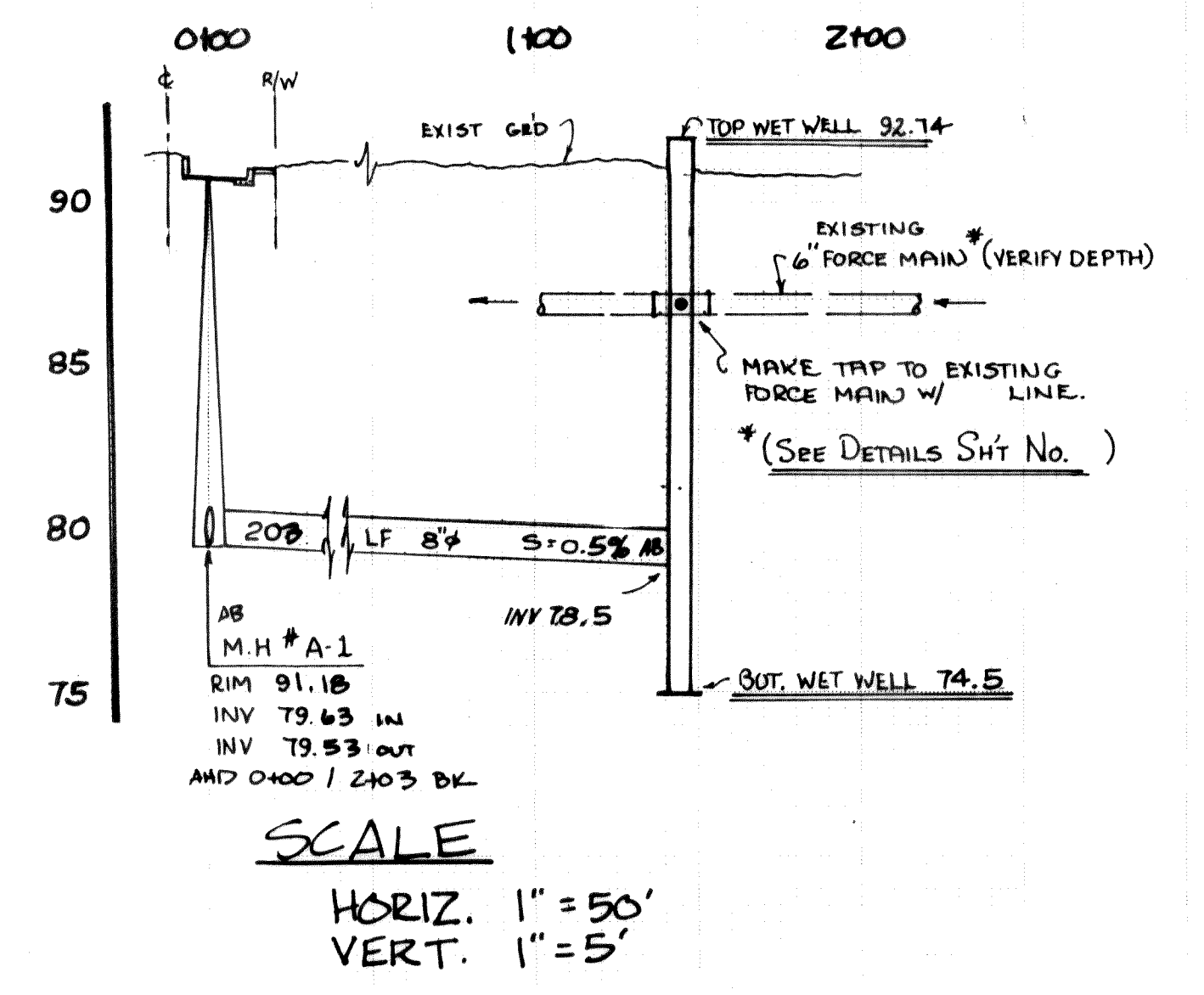
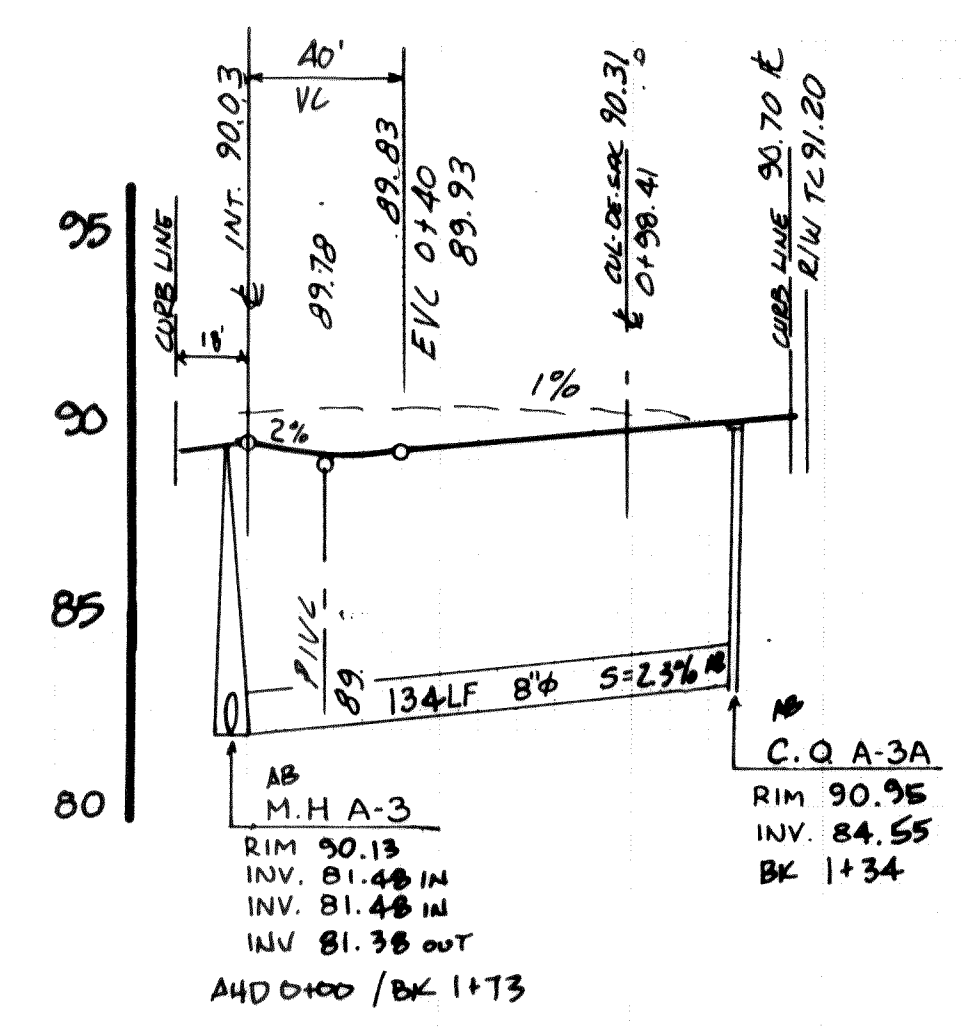
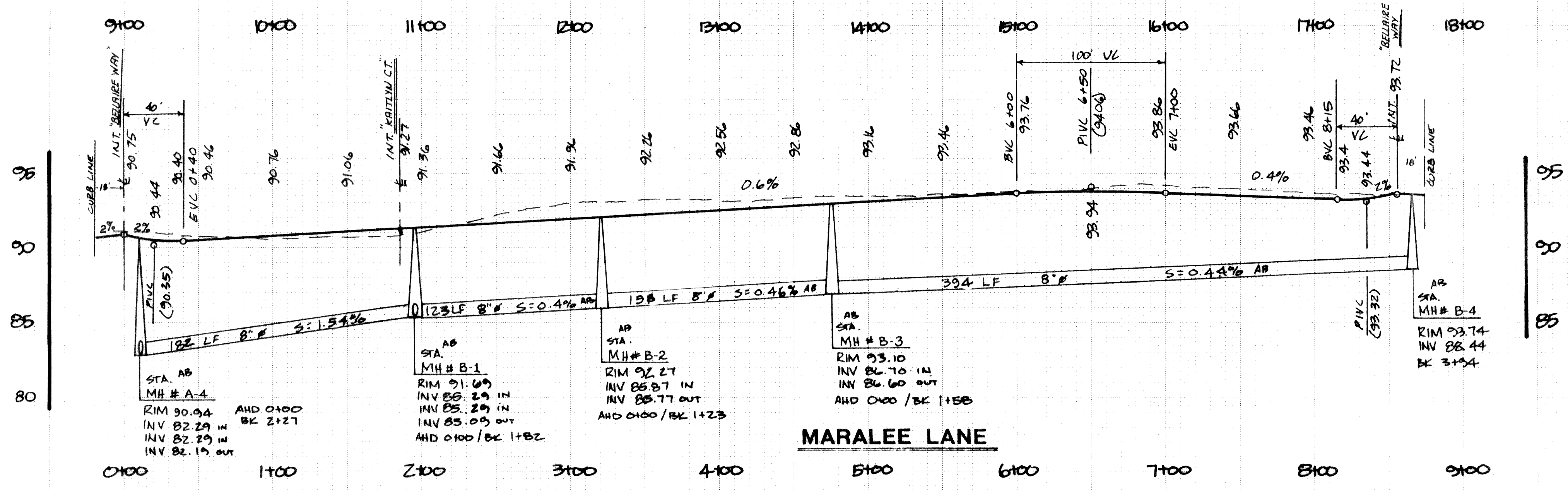
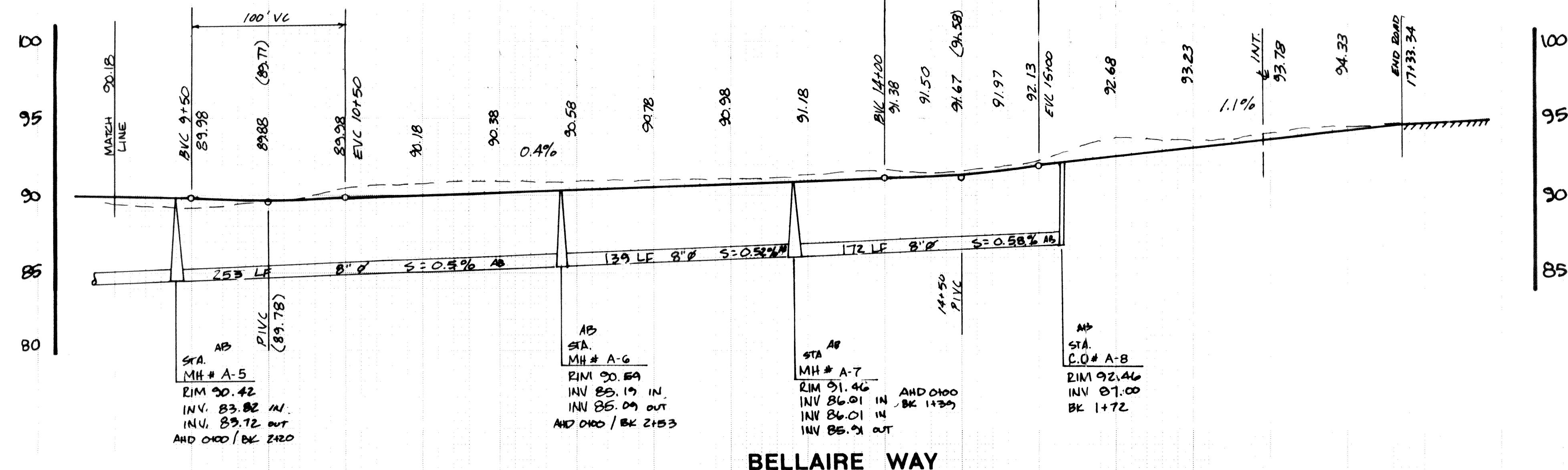
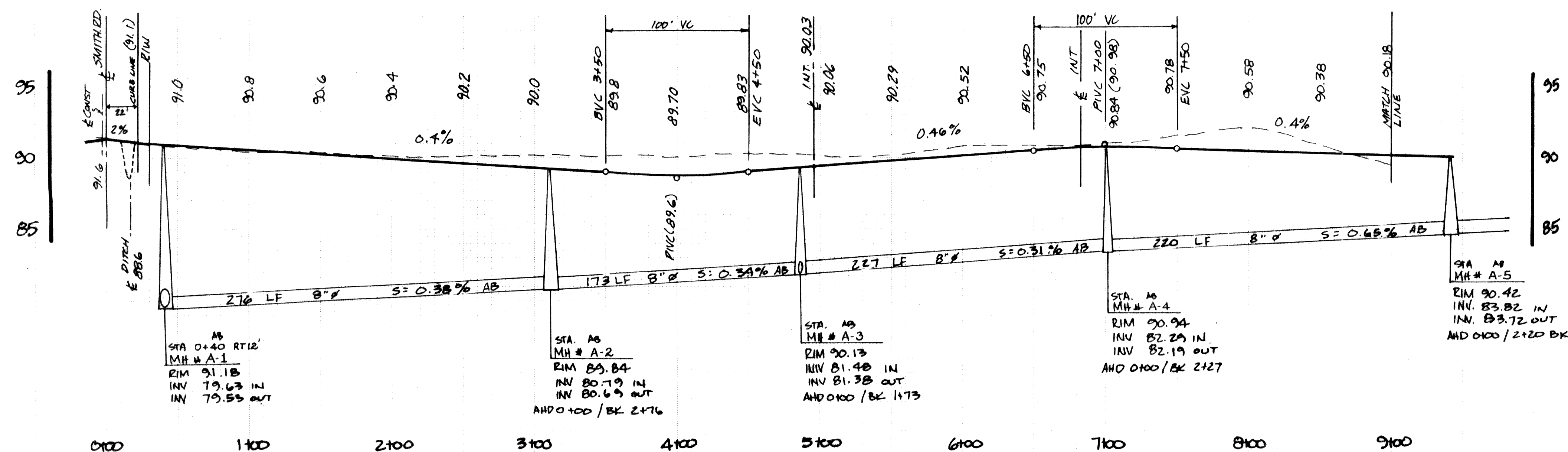


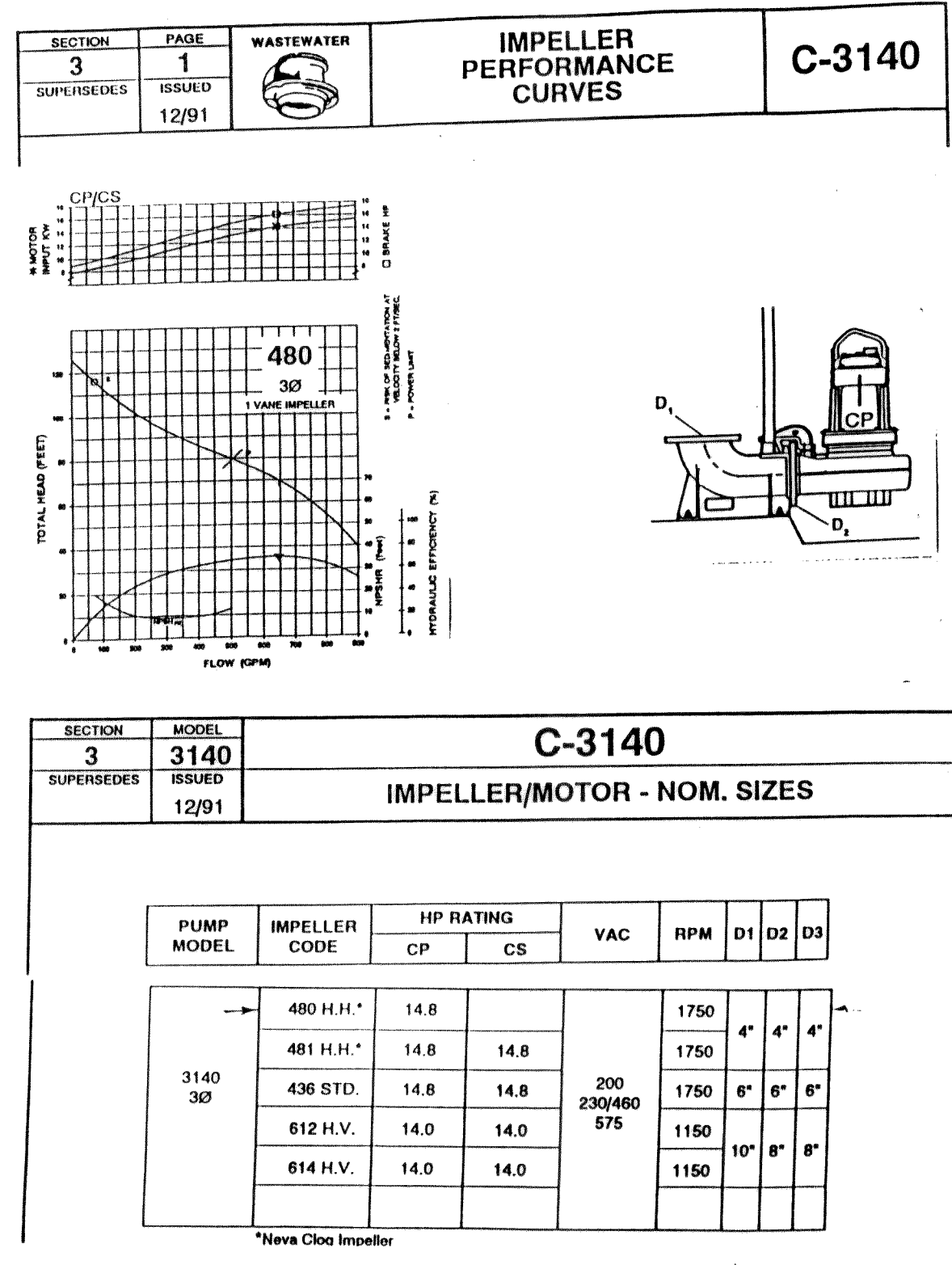
NOTE: STORM SYSTEM
ALL PIPE INSTALLED IS CORRUGATED HDPE
SMOOTH INTERIOR. HANCOCK PIPE

SCALE
HORIZ. 1"=50'
VERT. 1"=5'

DRAWING APPROVAL
REVIEW IS FOR GENERAL COMPLIANCE WITH
CONTRACT DOCUMENTS COUNTY STANDARDS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
BY *Michael D. Dade* DATE 9/8/93







SEWAGE LIFT STATION PUMP DESIGNATION

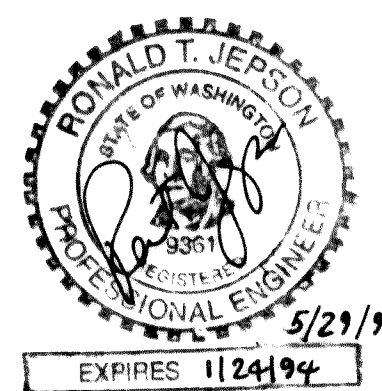
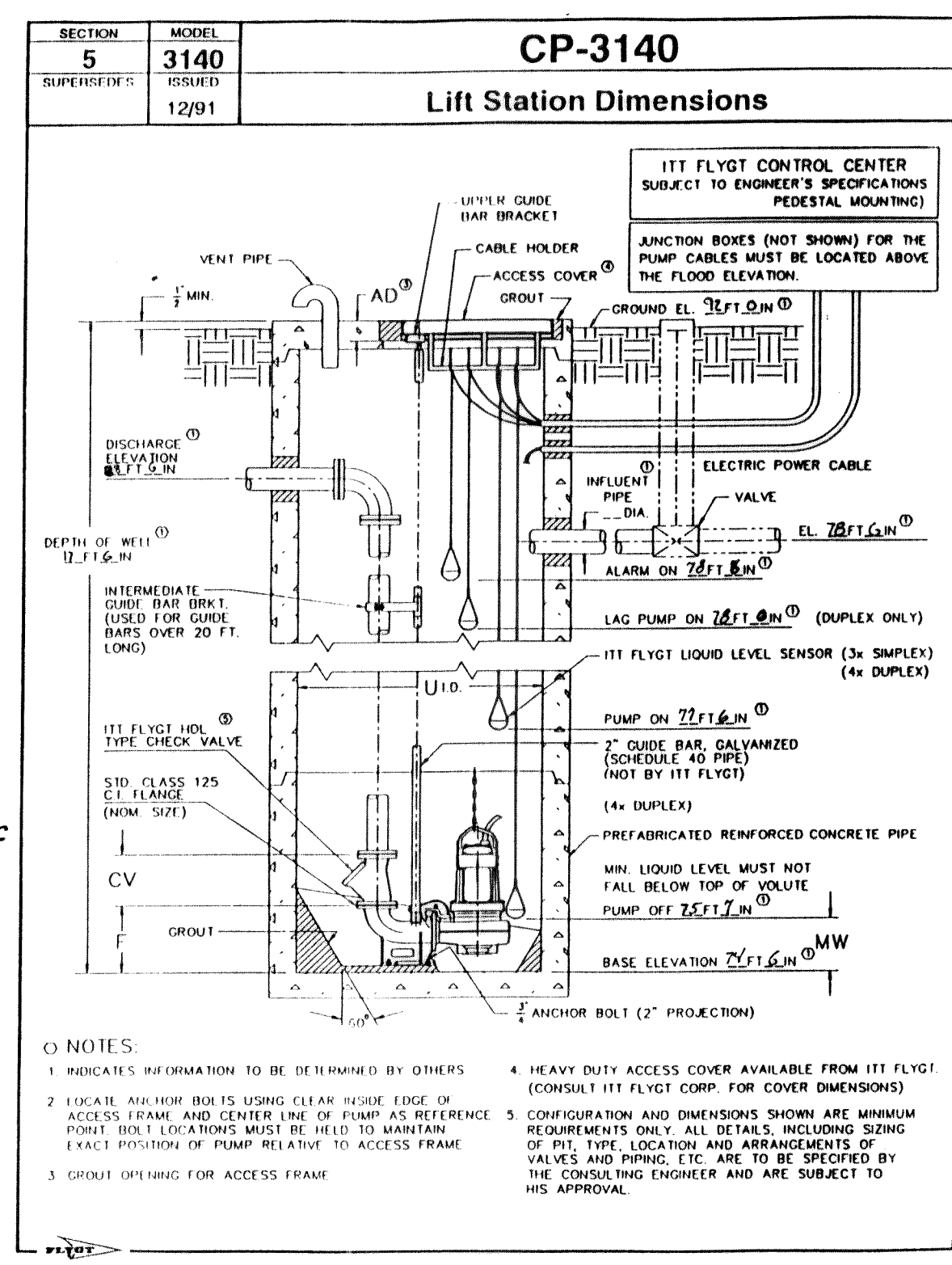
The double sewage pumps shall be a ITT Flygt Pump with controls described below.

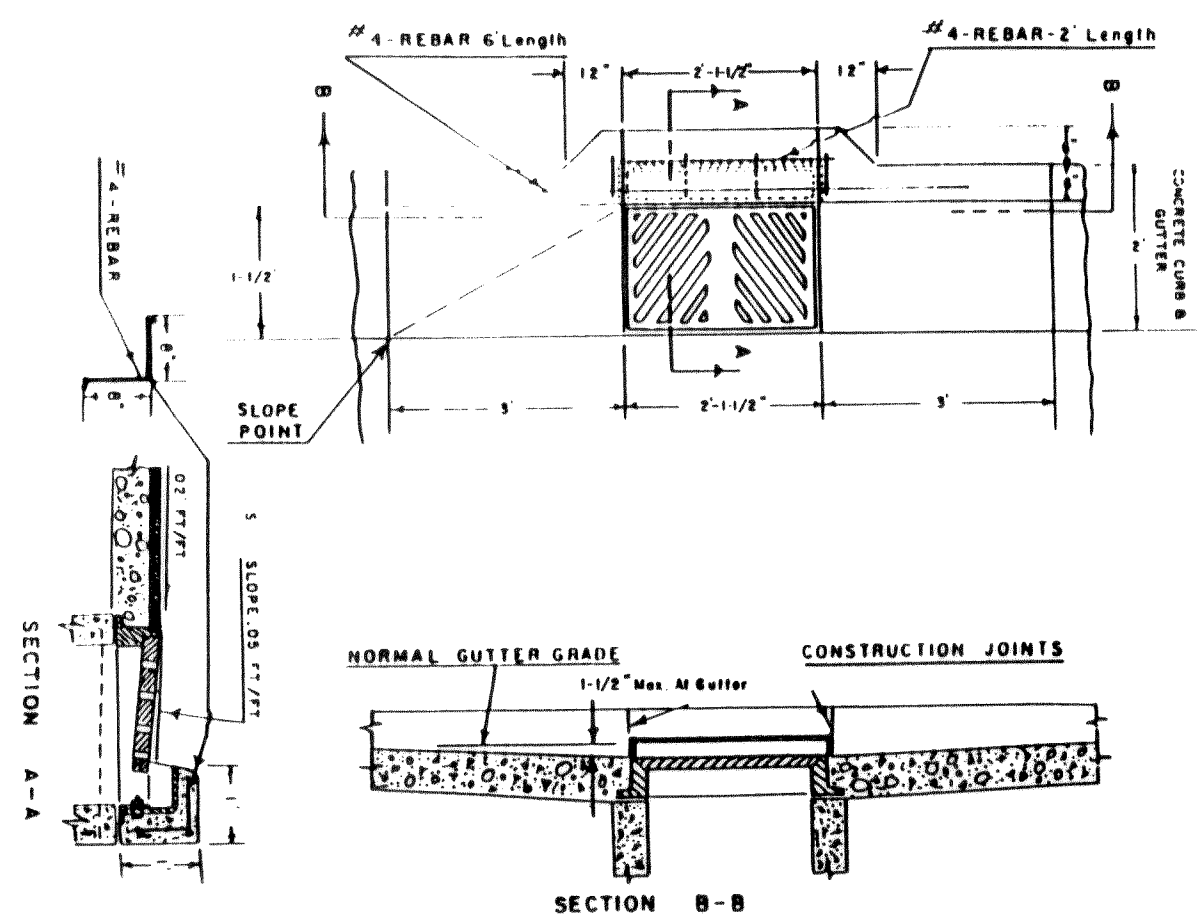
4"	H.H.	CP	3140	(W.)
Nom. Size	Version	Type	Model	Variant
14.8	1750	480		3
HP Rating	RPM	Impeller Code		Phase

The controls shall be a ITT Flygt F-3000 or approved equal. The controller shall have terminals for telemetry connections to be specified by the City Of Ferndale Engineer. The controller shall be equipped F-3000 options as follows:

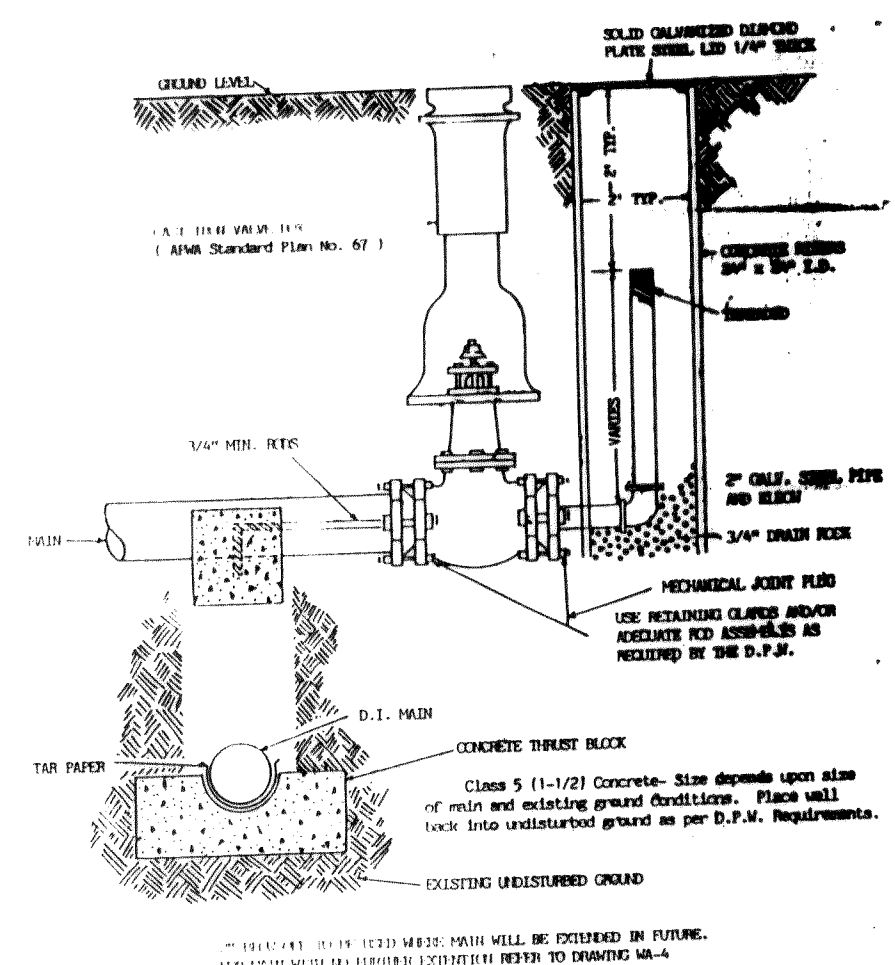
- #1 Hydraulic/Magnetic Circuit Breaker with Thermal Over Load Relay
- #3 Lighting Arrestor with Surge Capacitor
- Ground Fault Protection
- Power Monitor
- #4 Circuit Breaker Trip Indication
- Thermal Overload Trip Indication
- Pump Leakage Shutdown and Indication
- Motor Overtemperature Indication with Auto Reset
- #5 Pump Run Indication
- Pump Off Indication
- Remote Control Power Failure Indication
- Common Alarm Annunciation
- Pump Failure Indication and Autotransfer
- #6 High and Low Level Alarms Package "B"
- Battery Backup for Controller
- #7 ENH-10 Level Indication
- #8 Convenience Outlet, 15 amps
- #11 Enclosure NEMA 3R
- #12 Main Disconnect Switch-Fused and Unfused
- Main Circuit Breaker with Ground Fault Protection
- Transfer Switch and Receptacle
- Pedestal Mounting Kit
- Ammeter for each motor
- U.L. Approved
- Low Level Bypass Switch

TELEMETRY TO BE ON 8 CHANNEL R.T.U WITH BATTERY
BACKUP AND TELEPHONE MODEM. CONTACT CITY OF FERNDALE
FOR TELEMETRY SYSTEM COORDINATION.

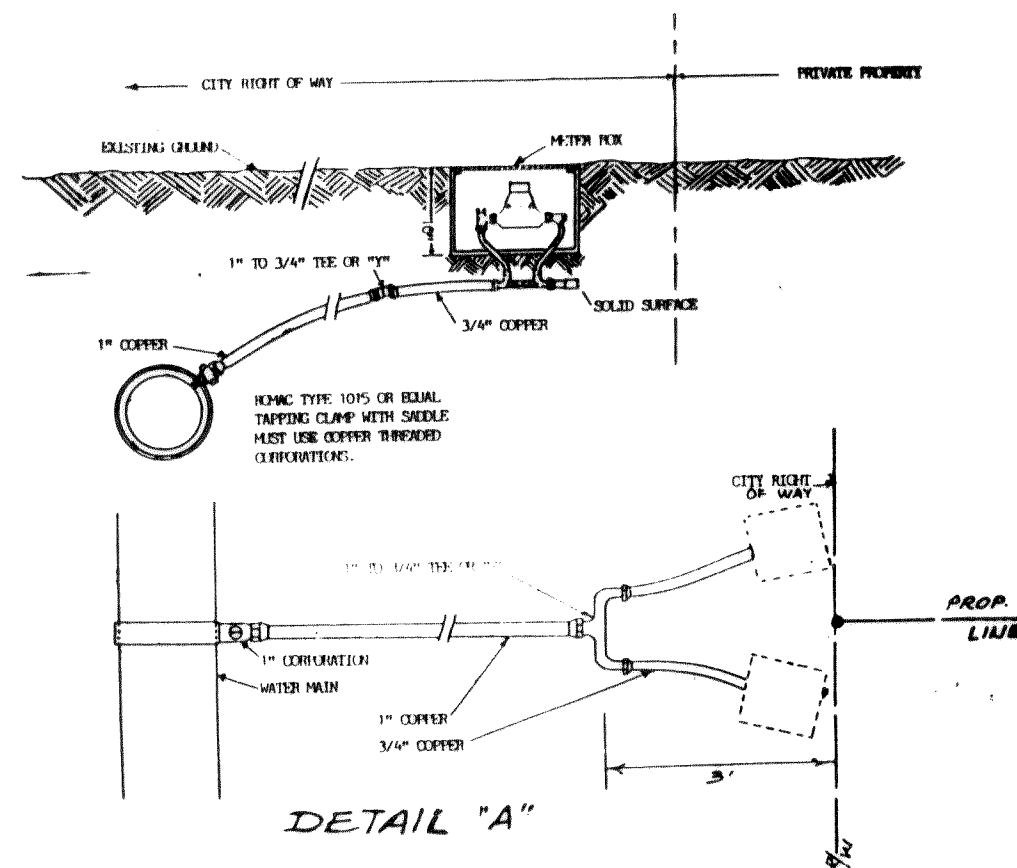




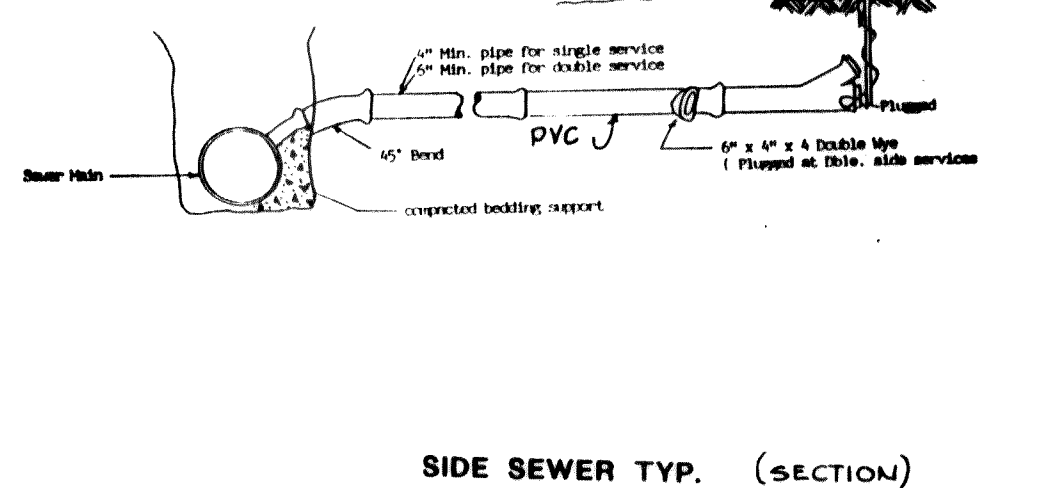
THRU-CURB FRAME & GRATE



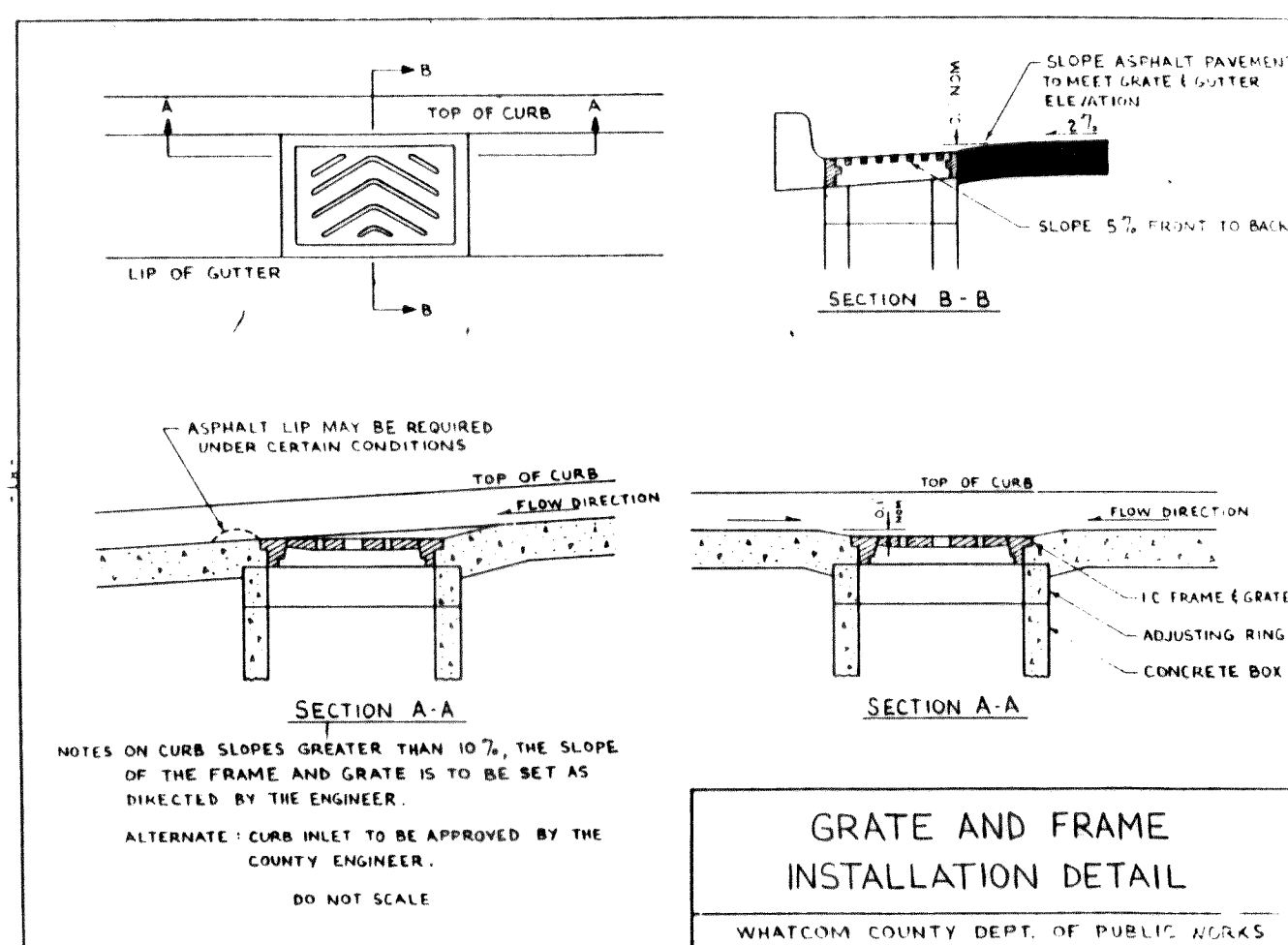
BLOWOFF TYP.



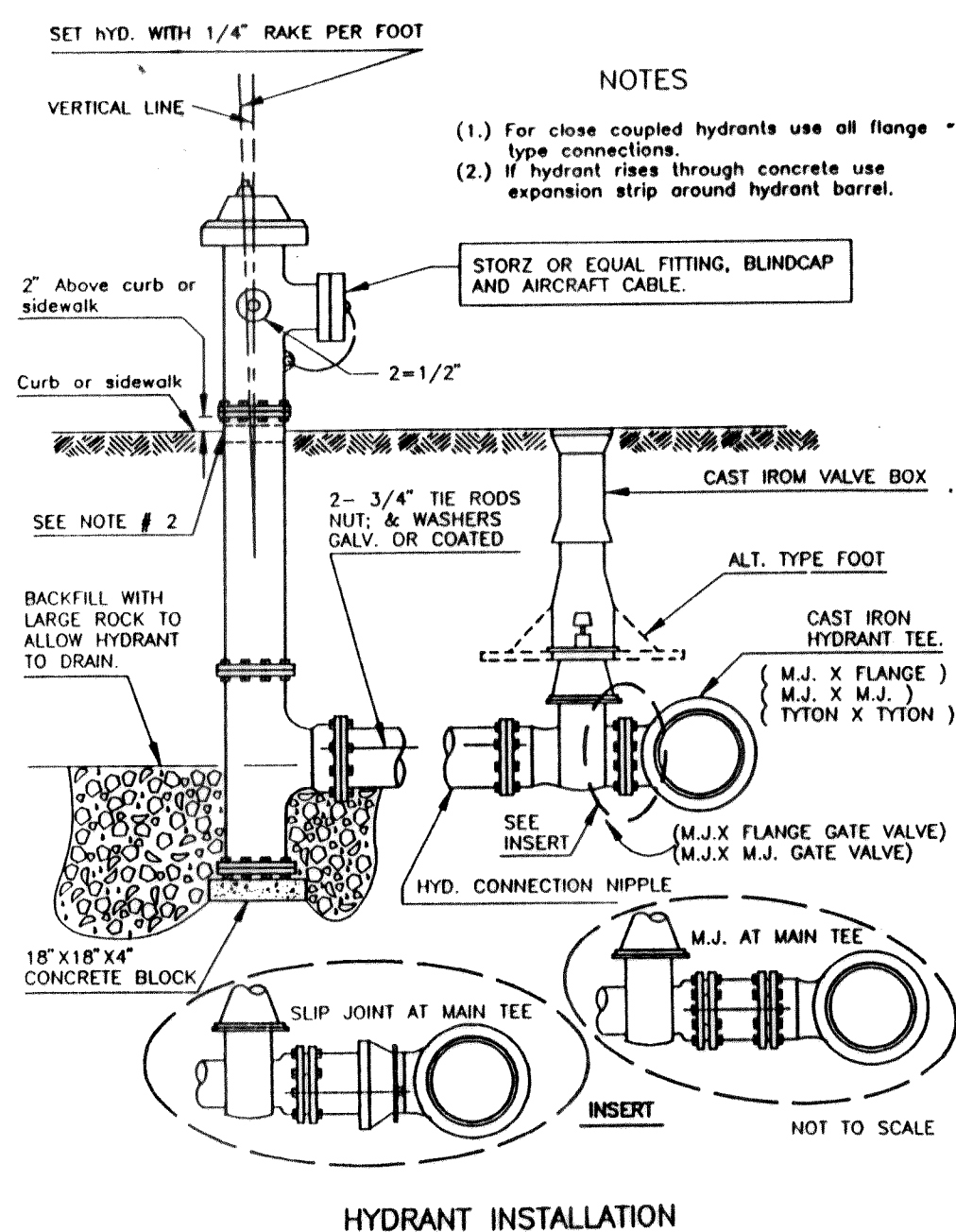
WATER SERVICE TYP.



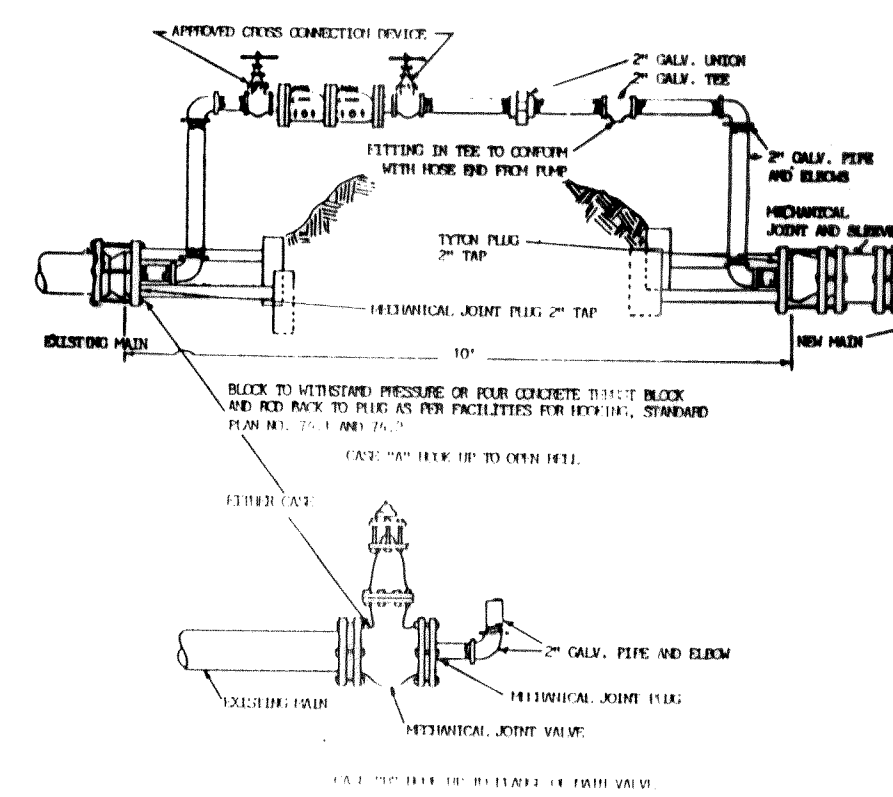
SIDE SEWER TYP. (SECTION)



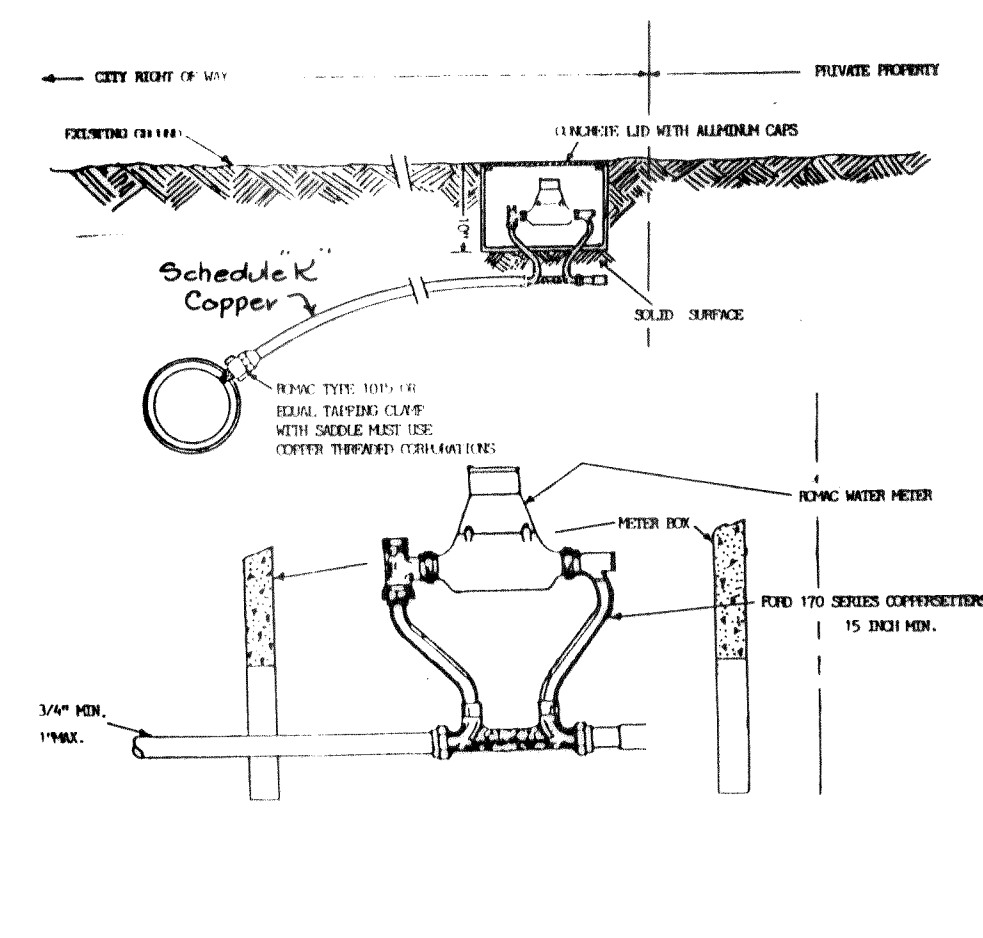
INLET & CB LOC.



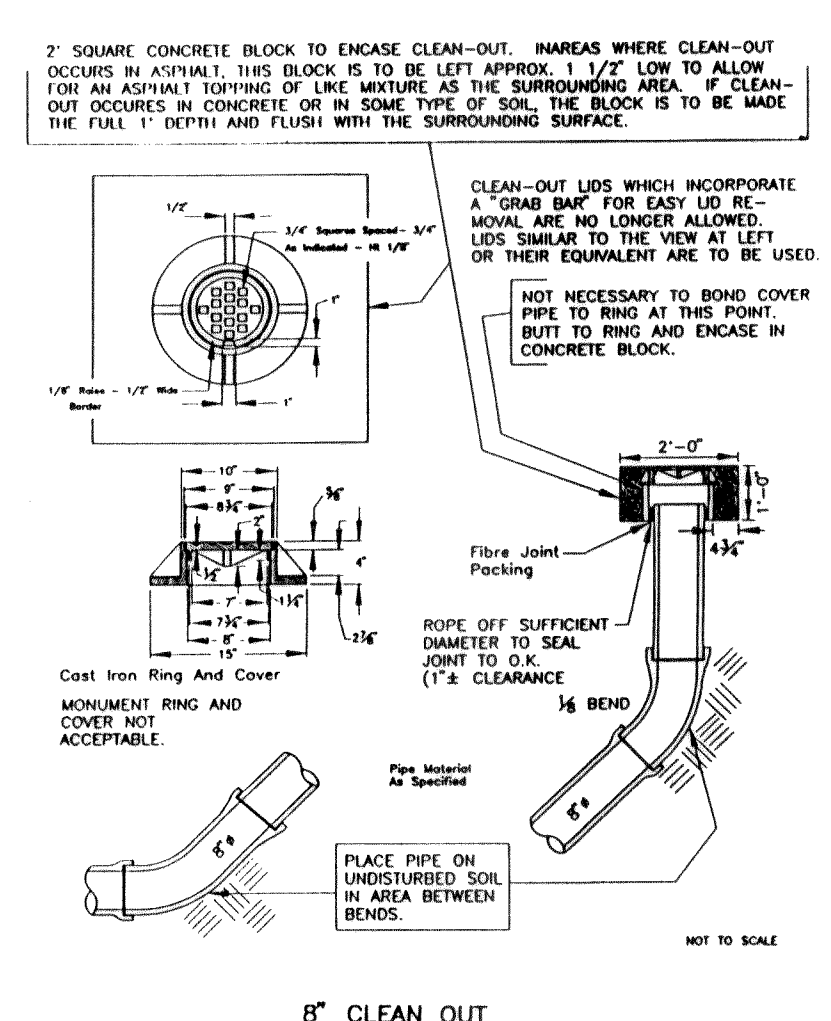
HYDRANT INSTALLATION



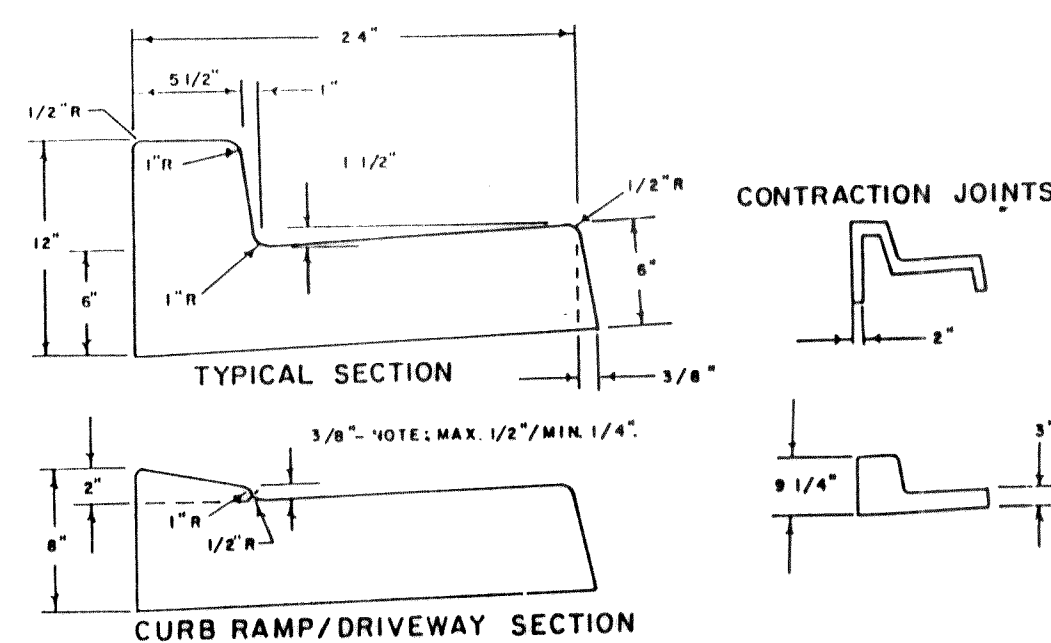
WATERMAIN TEST ASSEMBLY



WATER METER TYP.



8\"/>



GENERAL NOTES:
CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10' C/C. JOINTS MUST COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MIN. 3/16\"/>

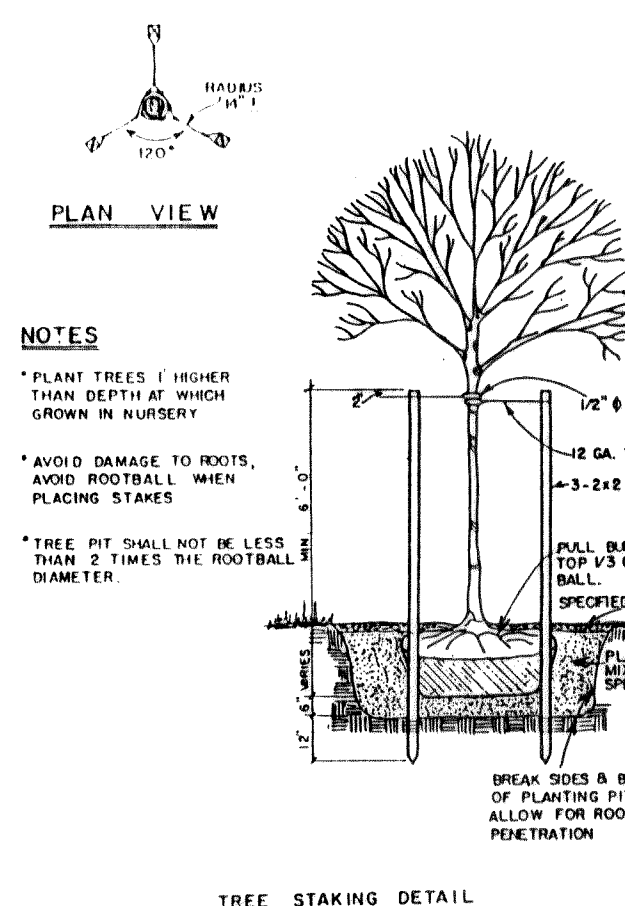
2\"/>

3/4\"/>

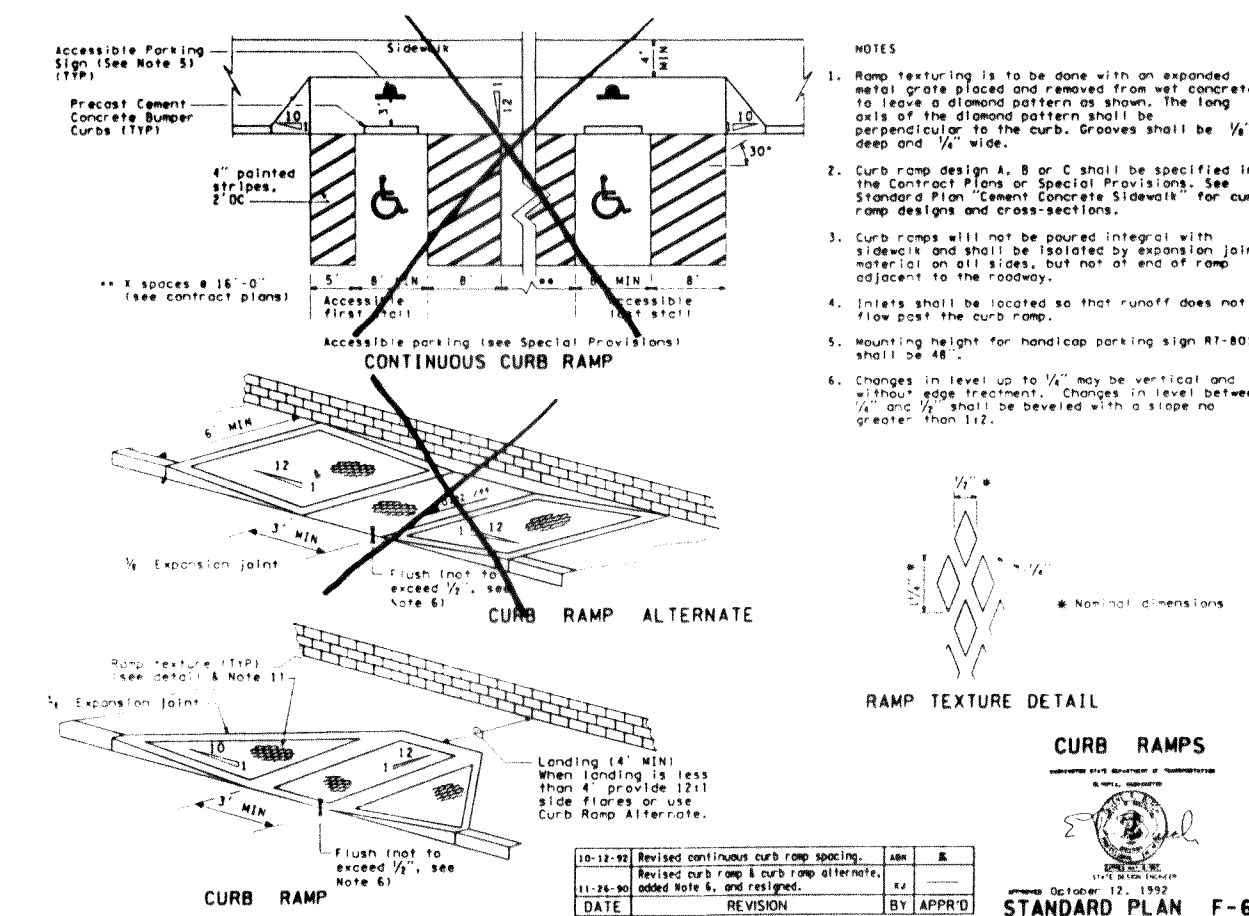
CONCRETE SHALL BE CEMENT CONCRETE CLASS \"C\"
FINISHED WORK SHALL NOT VARY MORE THAN 1/8\"/>

EXPOSED SURFACES SHALL BE BRUSHED WITH A FINE HAIR BRUSH.
WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE STANDARD SPECIFICATIONS.
FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

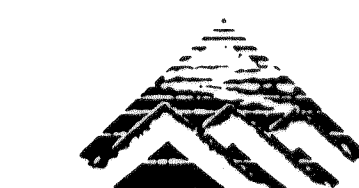
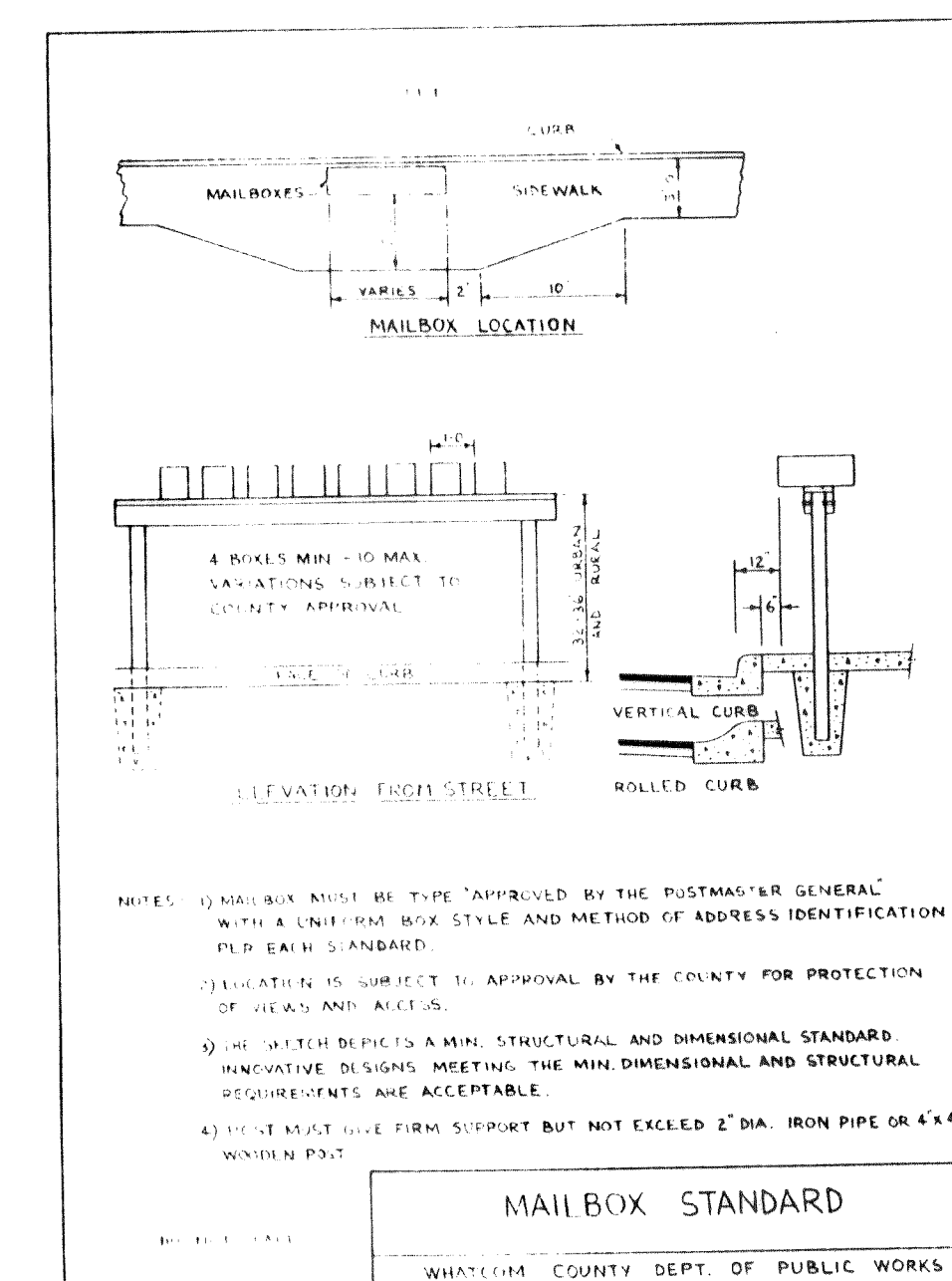
TYPE \"A\" MODIFIED CURB AND GUTTER

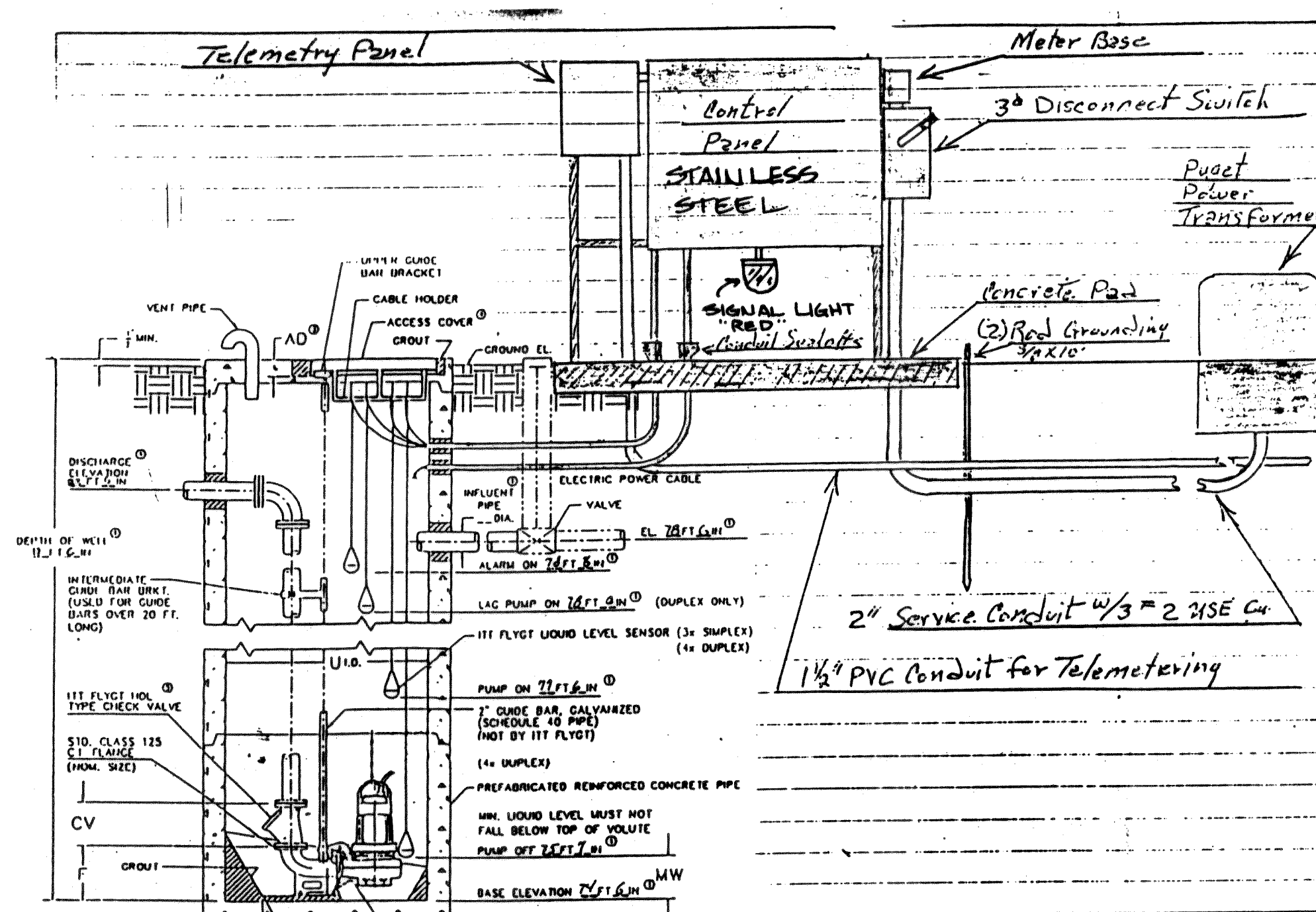
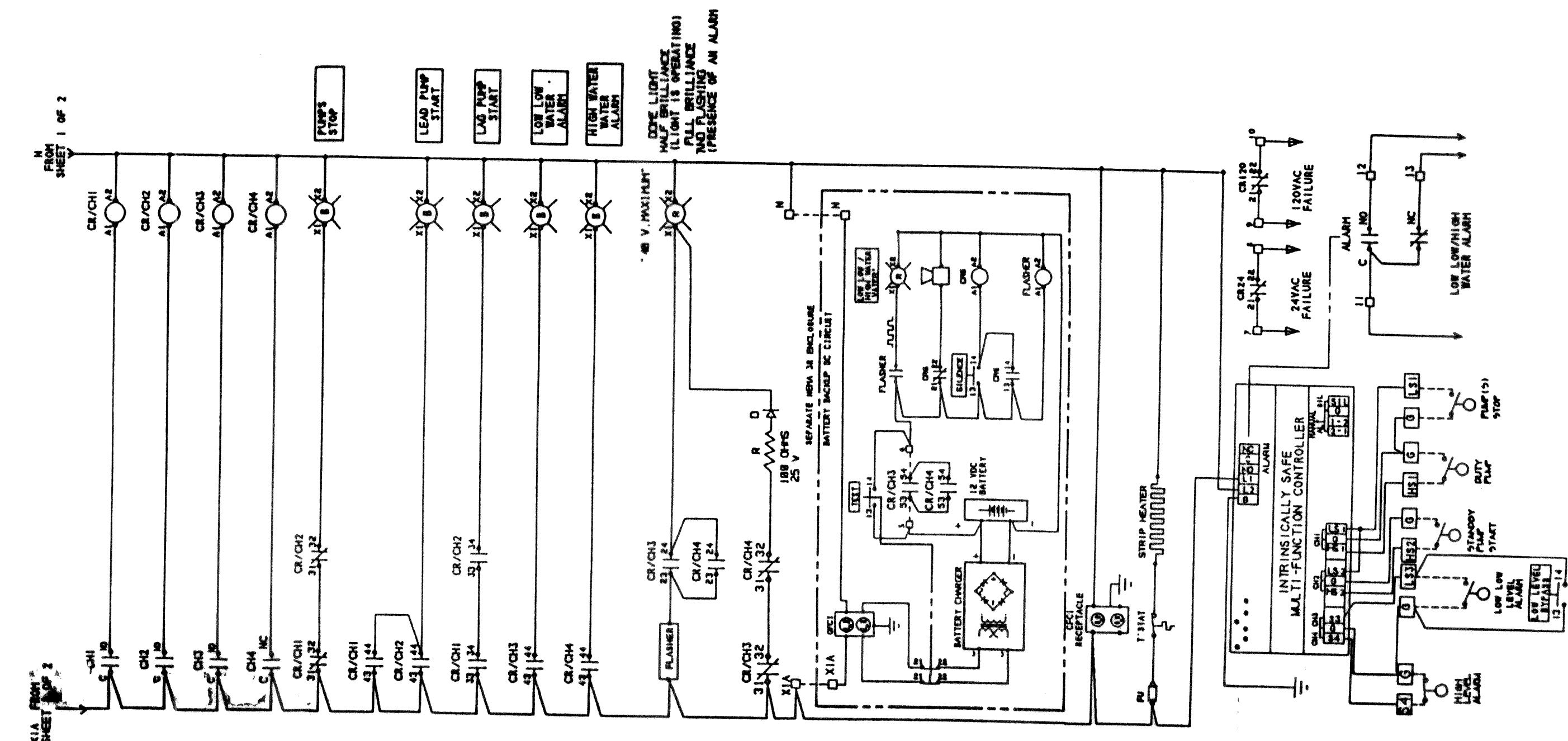
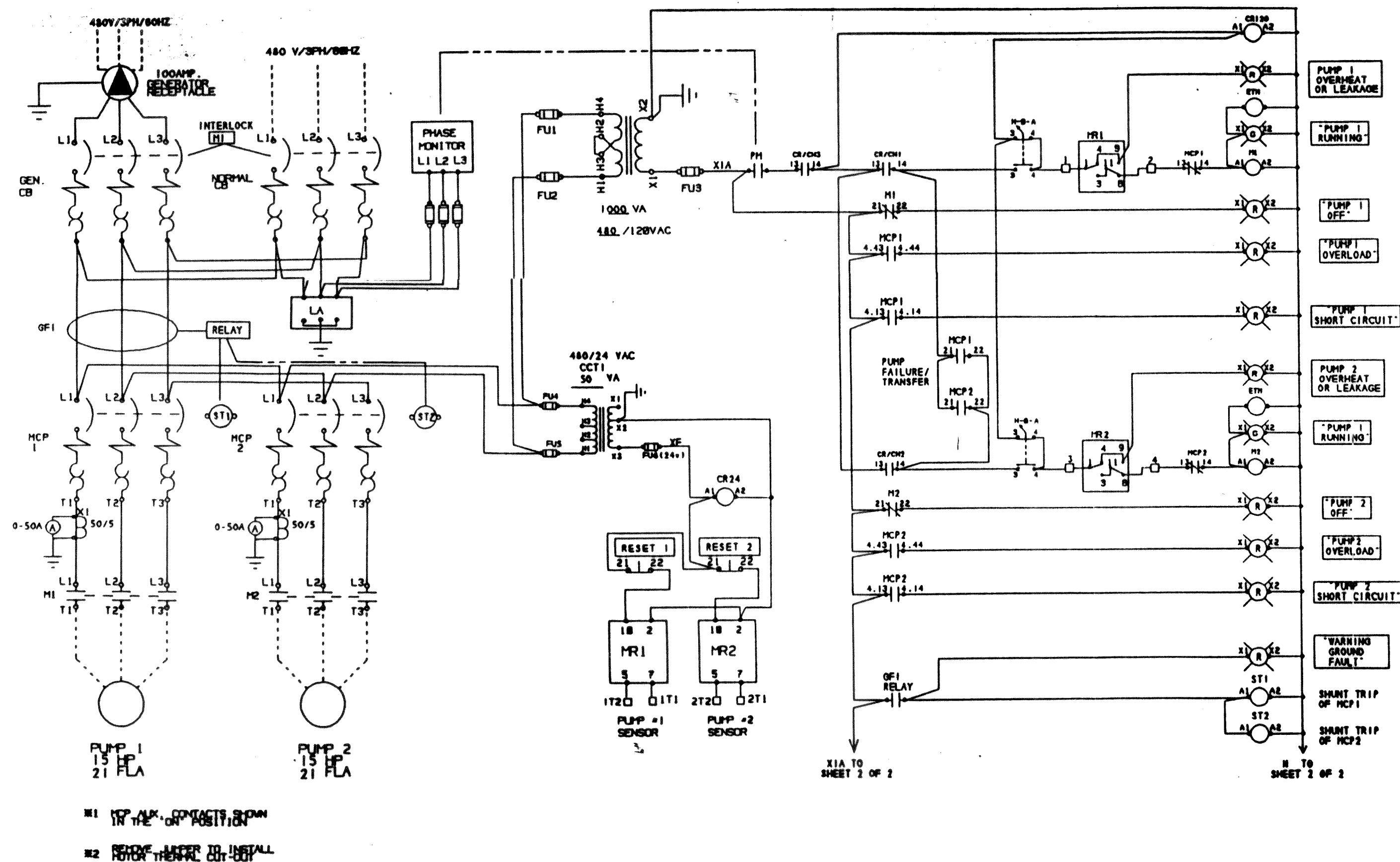


TREE STAKING DETAIL



WHEEL CHAIR RAMP





NOTE:
EXTRA FLOAT CONTROL WAS ADDED FOR
LOW WATER ALARM.

00019.D10 2-10-06 KZ

