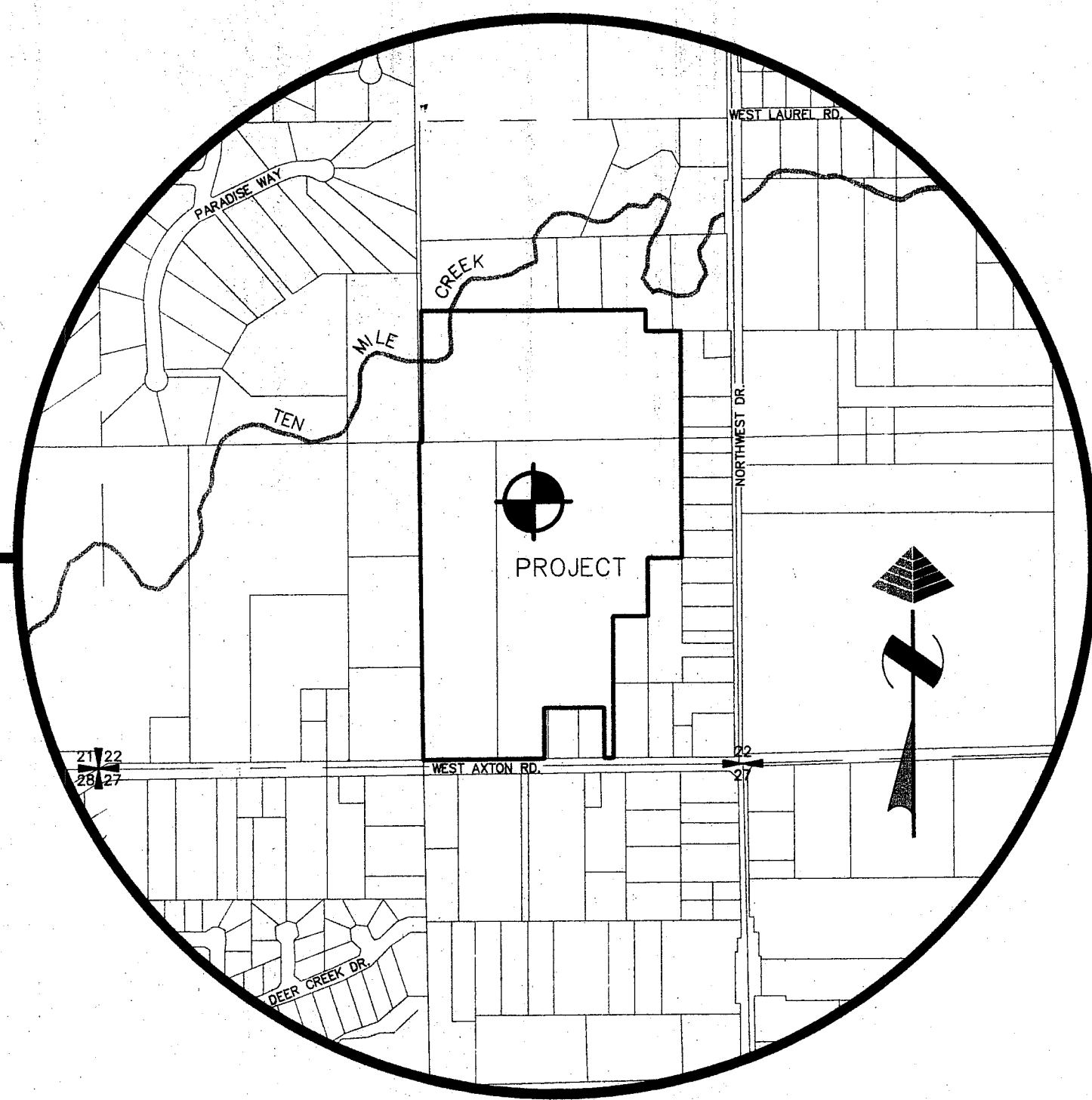




NORTHWEST COUNTRY ACRES / WHISPERING MEADOWS

CONSTRUCTION PLANS

SHT.

TITLE

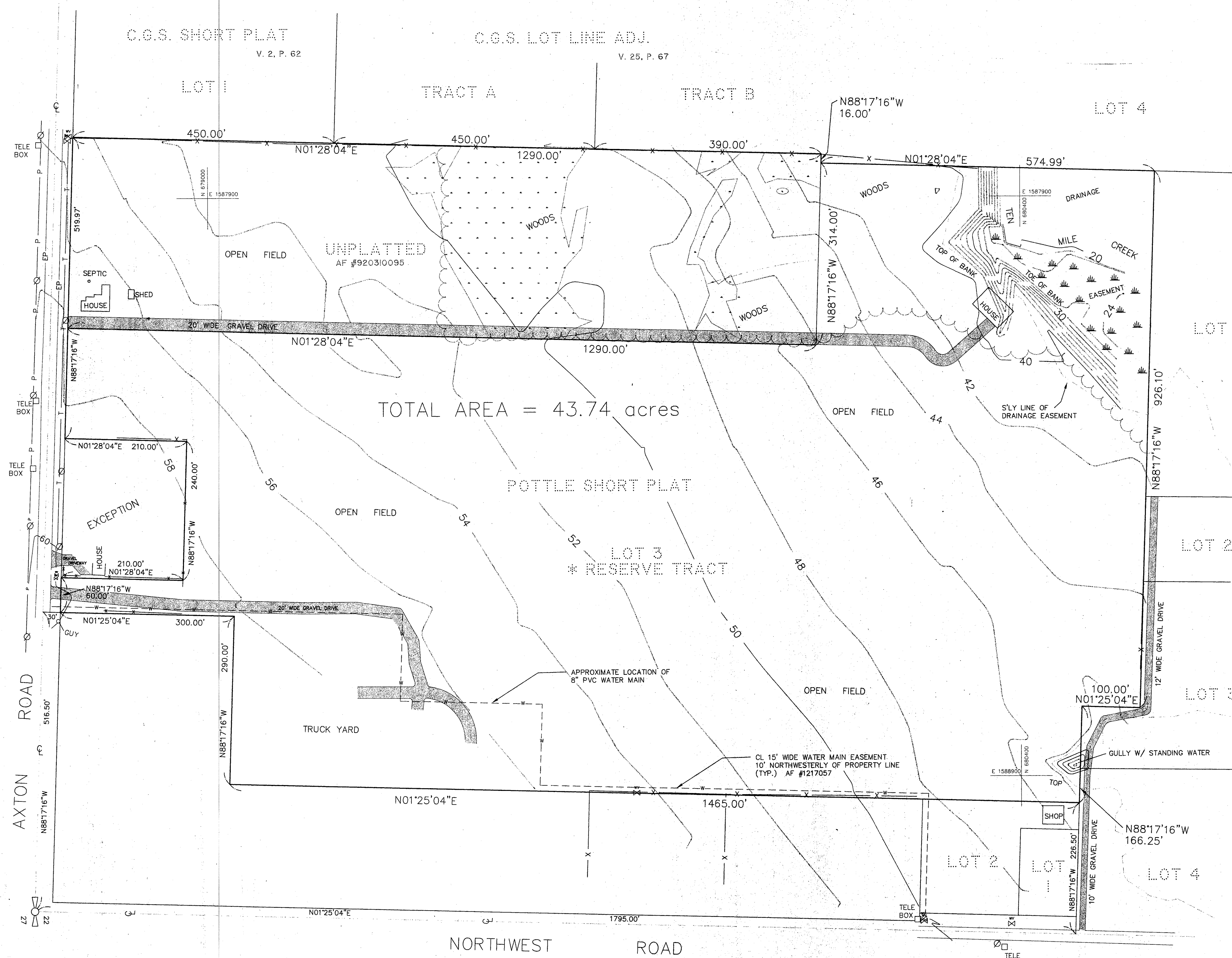
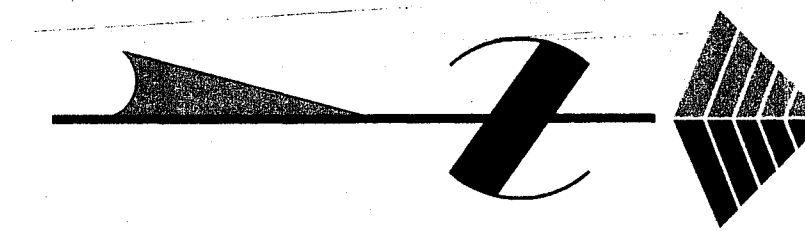
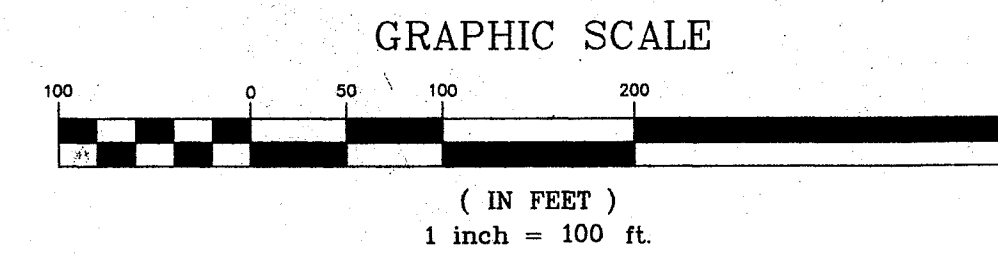
1. COVER SHEET
2. EXISTING CONDITIONS
3. SUBDIVISION PLAN
4. STREET PLAN & PROFILE - STA 0+00 - 17+00
5. STREET PLAN & PROFILE - STA 17+00 - 34+78.12
6. GRADING & TEMPORARY EROSION CONTROL
7. STORM DRAINAGE - WEST PLAN & PROFILE
8. STORM DRAINAGE - EAST/NORTH PLAN & PROFILE
9. DETENTION POND DETAILS
10. WATER MAIN PLAN & PROFILE - STA 0+00 - 17+00
11. WATER MAIN PLAN & PROFILE - STA 17+00 - 34+41.01
12. LIGHTING PLAN & DETAILS
13. COMMON UTILITY PLAN & DETAILS

GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 1998 EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) WASHINGTON STATE CHAPTER STANDARD PLANS AND SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, THE WHATCOM COUNTY DEVELOPMENT STANDARDS, AND THE CITY OF FERDALE STANDARDS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
2. ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY WHATCOM COUNTY AND CITY OF FERDALE.
3. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH REPRESENTATIVES FROM THE WHATCOM COUNTY PUBLIC WORKS DEPARTMENT AND CITY OF FERDALE A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN A REVOCABLE ENCROACHMENT PERMIT FROM WHATCOM COUNTY PRIOR TO COMMENCING WORK IN THE RIGHTS-OF-WAY.
5. ALL WORK MUST BE INSPECTED BY REPRESENTATIVES FROM THE WHATCOM COUNTY PUBLIC WORKS DEPARTMENT AND CITY OF FERDALE. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE FOR INSPECTIONS AS FOLLOWS:
 - A. PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
 - B. PLACEMENT OF WATER LINE AND BACKFILLING OF WATER LINE 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. ALL TESTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THE WHATCOM COUNTY DEVELOPMENT STANDARDS AND CITY OF FERDALE DEVELOPMENT STANDARDS AS FOLLOWS:
 - A. CURB/GUTTER, SIDEWALK, ROADWAY BASE COMPACTION - MINIMUM 1 TEST EVERY 3 STATIONS, MIN. 2 TESTS PER CATEGORY.
 - B. CONCRETE CYLINDER COMPRESSION - 1 CYLINDER EVERY THIRD LOAD, MIN. 2 SAMPLES.
 - C. A.C. PAVING DENSITY.
7. UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE AREA OF CONSTRUCTION. THE SHOWN LOCATION OF THE EXISTING UTILITIES IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY OWNERS FOR LOCATIONS AND FIELD VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE (1-800-424-5555) 48 HOURS PRIOR TO STARTING CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL ADJACENT UTILITIES WHICH INCLUDE BUT ARE NOT LIMITED TO: WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, IRRIGATION, AND STREET LIGHTING. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISTURBED BY THE PROJECT UPON COMPLETION OF THE PROJECT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EXPOSED CUT AND FILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
10. THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL WHILE THE SITE IS UNDER CONSTRUCTION.
11. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
12. THE CONTRACTOR SHALL PROVIDE CERTIFIED AS BUILT DATA OF THE IMPROVEMENTS TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
13. POTABLE WATER IS TO BE PROVIDED BY THE CITY OF FERDALE. ALL WATER MAINS, HYDRANTS, SERVICES, VALVES, AND ASSORTED APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FERDALE DEVELOPMENT STANDARDS AND PLANS.
14. ALL WATER MAIN PIPE SHALL HAVE A MINIMUM COVER OF 3.5 FEET.
15. CONNECTION TO EXISTING CITY WATER SYSTEM SHALL BE A HOT TAP COMPLETED BY THE CONTRACTOR.
16. STORM PIPE SHALL BE OF AN APPROVED MATERIAL AND OF THE SIZE NOTED ON THE PLANS.
17. CONTRACTOR SHALL RIP-RAP ALL CULVERT INLETS AND OUTLETS.
18. CONTRACTOR 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.
19. DEVELOPER/CONTRACTOR SHALL POST A MAINTENANCE SECURITY AS REQUIRED BY THE COUNTY ENGINEER.

MILLENNIUM
Engineering Group, Inc.
PO BOX 137, LYNDEN WA 98264 (360) 354-8141

DRAWING APPROVAL		APPROVAL STAMPS	
REVIEWED FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS AND COUNTY STANDARDS NO RESPONSIBILITY IS ASSUMED FOR CORRECTIONS OF DIMENSIONS OR DETAILS		CITY OF FERDALE DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING	
BY: <u>MT Donahue</u> DATE: <u>5/18/98</u>			
DATUM MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERDALE, WASHINGTON, 1952". SPOT ELEVATION OF MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.			
BASIS OF BEARINGS SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTE SHORT PLAT" (AF# 801106185), RECORDS OF WHATCOM COUNTY, WASHINGTON; SAID BEARING BEING N88°17'18"W.			
NW COUNTRY ACRES/WHISPERING MEADOWS		SCALE: N/A	
COVER SHEET		DATE: 05/06/98	
FOR POTTE & SONS CONSTRUCTION, INC.		DRAWN BY: CMAS	
PTN. SW1/4, SEC.22, T39N, R2E, W.M. WHATCOM COUNTY, WASHINGTON		REVISER: 7	
		SHEET: 1 OF 13	
		JOB NUMBER: 97074	



LEGEND

	MARSHY AREA
	POWER POLE
	WATER VALVE
	WATER MAIN
	EASEMENT LINE
	FENCE LINE
	UNDERGROUND TELEPHONE LINE
	OVERHEAD POWER LINE
	EXISTING GROUND CONTOUR
	TREE LINE
	DELINEATED WETLAND AQUA-TERR SYSTEMS

NOTES

- SEE POTTLE SHORT PLAT FOR EXISTING FENCE LOCATIONS AND NOTES PERTAINING TO RESERVE TRACT #3.
- EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS, CITY OF FERNDALE STANDARDS, OR 1998 APWA STANDARDS, WHICHEVER IS MORE STRINGENT.
- THE TOPOGRAPHY SHOWN DOES NOT REFLECT THE EXISTING EARTH BERM ALONG THE EAST SIDE OF THE EXISTING WESTERLY DRIVEWAY. THIS BERM HAS BEEN IGNORED FOR EARTHWORK CALCULATIONS.

DATUM

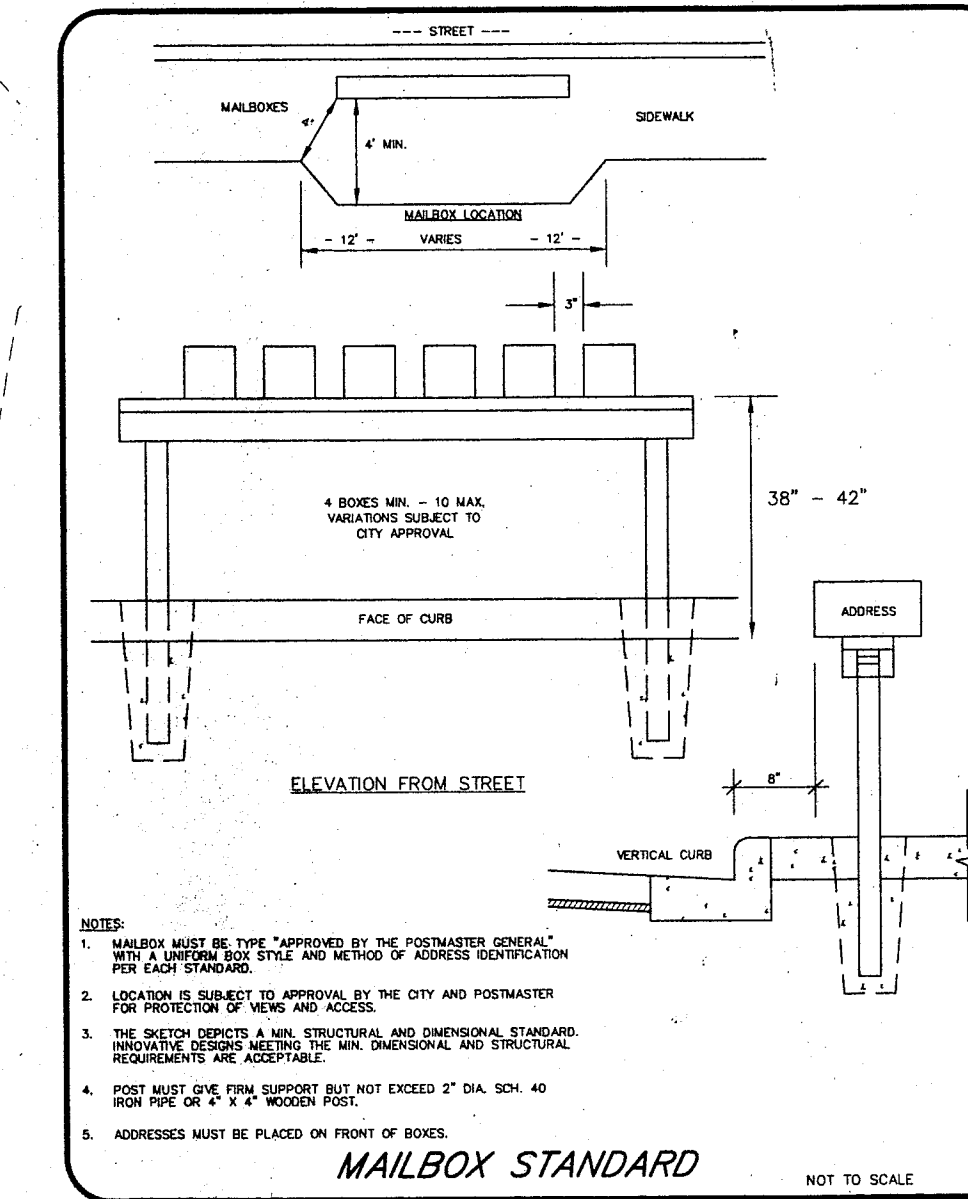
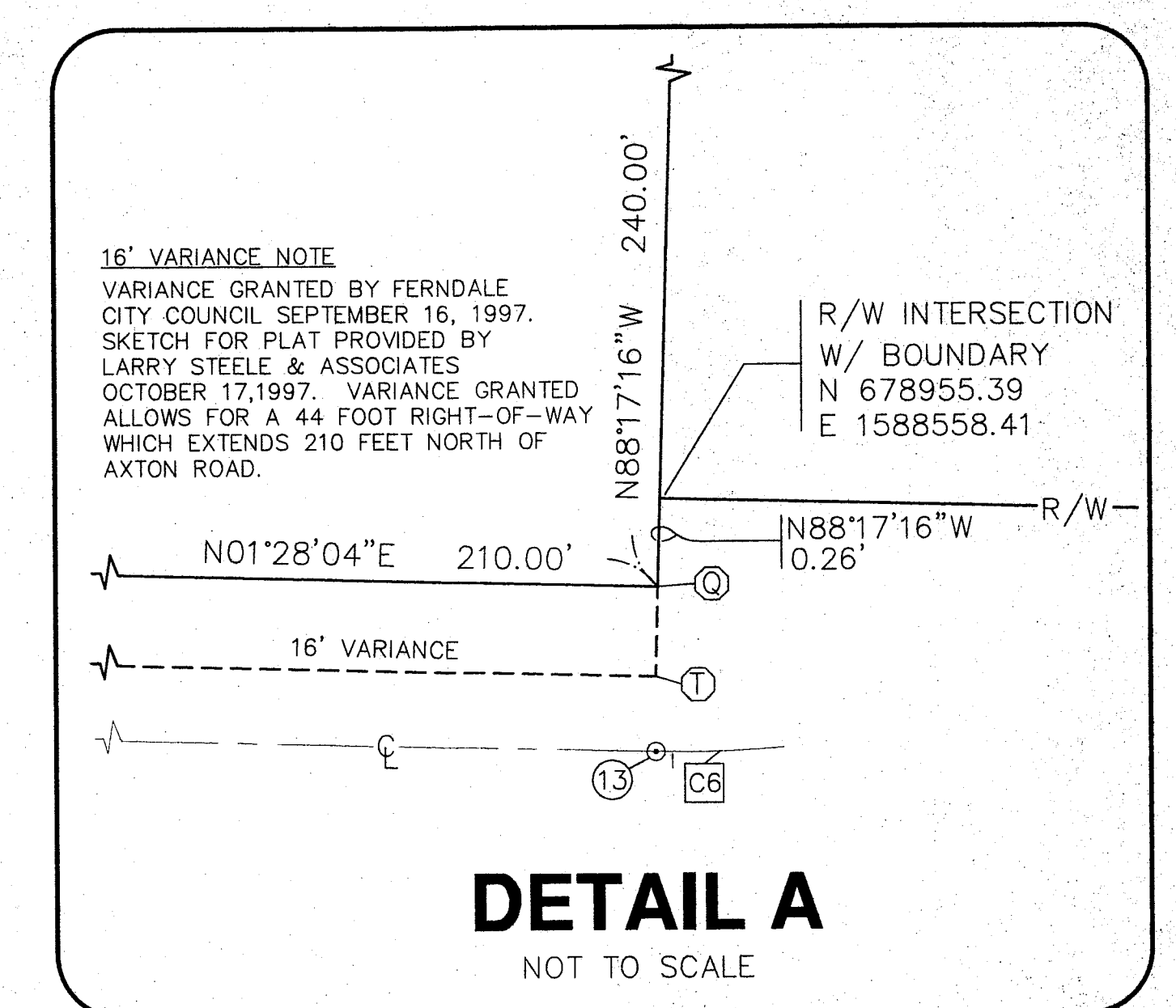
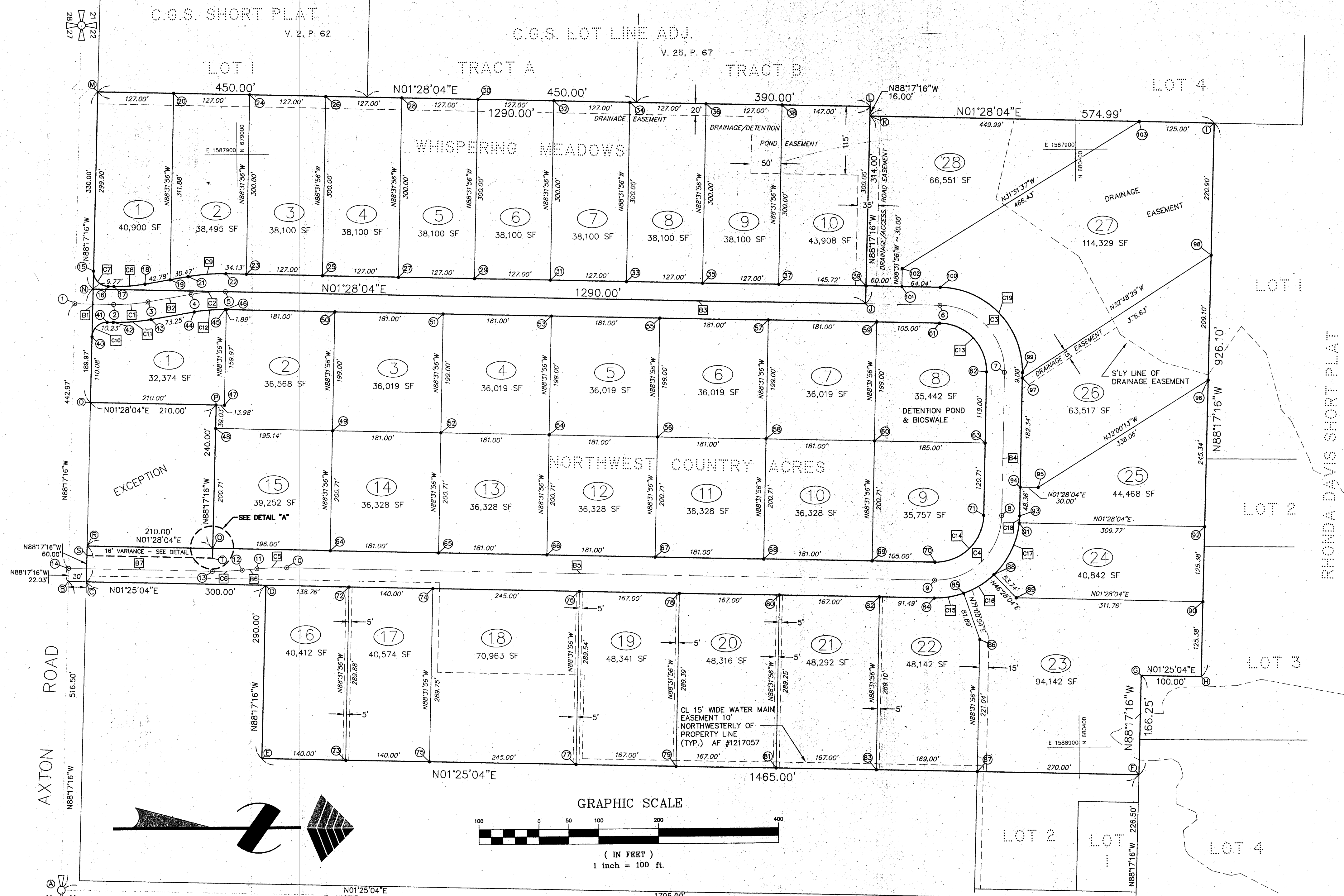
MEAN SEA LEVEL PER U.S.G.S. 7-1/2' QUADRANGLE MAP ENTITLED 'FERNDALE, WASHINGTON, 1952'. SPOT ELEVATION OF 56' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS

SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE 'POTTLE SHORT PLAT' (AF# 901106185), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16\"/>

MILLENNIUM
Engineering Group, Inc.

PO BOX 137, LYNDEN WA 98264 (360) 354-8141



LEGEND

- (M) BOUNDARY POINT
- (42) LOT/CENTERLINE POINT
- (C10) LOT/CENTERLINE CURVE LABEL
- (B5) CENTERLINE TANGENT LABEL
- LOT CORNER
- R/W CENTERLINE
- (27) LOT NUMBER & AREA
- N88°17'16"W LOT LINE BEARING
- 181.00' LOT LINE DIMENSION
- EASEMENT LINE

NOTES

- SEE POTTLE SHORT PLAT FOR EXISTING FENCE LOCATIONS AND NOTES PERTAINING TO RESERVE TRACT #3.

BOUNDARY POINT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
A	678698.23	1589128.79	QUARTER CORNER
B	678713.67	1588612.52	EXTENSION LINE INT.
C	678743.66	1588613.26	PROP. CORNER
D	679043.56	1588620.68	PROP. CORNER
E	679034.90	1588910.56	PROP. CORNER
F	680499.45	1588946.80	PROP. CORNER
G	680504.42	1588780.63	PROP. CORNER
H	680604.39	1588783.10	PROP. CORNER
I	680632.06	1587857.42	PROP. CORNER
J	680047.87	1588156.55	PROP. CORNER
K	680057.25	1587842.69	PROP. CORNER
L	680057.73	1587826.70	PROP. CORNER
M	678768.16	1587793.65	PROP. CORNER
N	678758.30	1588123.51	PROP. CORNER
O	678752.62	1588313.40	PROP. CORNER
P	678662.55	1588318.77	PROP. CORNER
Q	678655.38	1588558.67	PROP. CORNER
R	678745.45	1588553.29	PROP. CORNER
S	678745.04	1588569.28	VARIANCE LINE INT.
T	678954.97	1588574.66	VARIANCE LINE INT.

CENTERLINE POINTS & GEOMETRY

POINT	NORTHING	EASTING	DESCRIPTION
1	678727.56	1588147.73	BEGIN CL
2	678782.54	1588149.39	PC
3	678849.90	1588145.35	PT
4	678922.14	1588133.22	PC
5	678979.50	1588129.18	PT
6	680172.00	1588159.73	PC
7	680279.14	1588272.52	PT
8	680273.00	1588512.14	PC
9	680160.22	1588593.07	PT
10	679078.68	1588591.57	PC
11	679028.73	1588593.07	PT
12	679004.36	1588595.16	PC
13	678954.41	1588596.66	PT
14	678714.32	1588590.50	END CL

LOT POINT & GEOMETRY TABLE

POINT	NORTHING	EASTING	DESCRIPTION
15	678759.20	1588053.42	LOT COR.-PC
16	678783.54	1588119.15	LOT COR.-PT
17	678793.31	1588115.76	LOT COR.-PC
18	678844.93	1588115.76	LOT COR.-PT
19	678861.38	1588135.79	LOT CORNER
20	678887.12	1588108.68	LOT CORNER
21	678895.11	1587796.91	LOT CORNER
22	678917.17	1588103.64	LOT COR.-PC
23	678920.22	1588099.19	LOT COR.-PT
24	679014.39	1588100.06	LOT CORNER
25	679022.07	1587800.16	LOT CORNER
26	679141.35	1588103.31	LOT CORNER
27	679149.03	1587803.41	LOT CORNER
28	679268.30	1588106.57	LOT CORNER
29	679275.99	1587806.67	LOT CORNER
30	679395.26	1588109.82	LOT CORNER
31	679402.95	1587809.92	LOT CORNER
32	679522.22	1588113.07	LOT CORNER
33	679529.91	1587813.17	LOT CORNER
34	679649.18	1588116.33	LOT CORNER
35	679656.86	1587816.43	LOT CORNER
36	679776.14	1588119.58	LOT CORNER
37	679783.82	1587816.88	LOT CORNER
38	679903.10	1588122.63	LOT CORNER
39	679910.78	1587822.93	LOT CORNER
40	680048.77	1588126.57	LOT CORNER
41	680055.81	1588203.37	LOT COR.-PC
42	680163.04	1588269.70	LOT COR.-PT
43	680163.04	1588509.32	LOT COR.-PC
44	680163.04	1588509.32	LOT COR.-PT

LOT POINT & GEOMETRY TABLE

POINT	NORTHING	EASTING	DESCRIPTION
45	678978.74	1588159.17	LOT COR.-PT
46	678980.82	1588159.22	LOT CORNER
47	678976.52	1588319.13	LOT CORNER
48	678961.38	1588357.79	LOT CORNER
49	679156.46	1588362.79	LOT CORNER
50	679161.56	1588163.85	LOT CORNER
51	679342.50	1588168.49	LOT CORNER
52	679337.40	1588367.42	LOT CORNER
53	679523.44	1588173.12	LOT CORNER
54	679518.34	1588372.06	LOT CORNER
55	679704.38	1588177.76	LOT CORNER
56	679699.29	1588376.70	LOT CORNER
57	679855.32	1588182.40	LOT CORNER
58	679860.23	1588381.33	LOT CORNER
59	680066.26	1588187.03	LOT CORNER
60	680061.17	1588385.97	LOT CORNER
61	680171.23	1588189.72	LOT COR.-PC
62	680249.15	1588271.75	LOT COR.-PT
63	680249.15	1588390.71	LOT CORNER
64	679151.32	1588563.43	LOT CORNER
65	679332.26	1588568.06	LOT CORNER
66	679513.20	1588572.70	LOT CORNER
67	679694.14	1588577.34	LOT CORNER
68	679875.08	1588581.97	LOT CORNER
69	680056.03	1588586.61	LOT CORNER
70	680160.99	1588589.30	LOT COR.-PT
71	680243.01	1588511.37	LOT COR.-PC
72	679182.28	1588624.24	LOT CORNER
73	679174.86	1588914.02	LOT CORNER
74	679322.24	1588627.83	LOT CORNER

LOT POINT & GEOMETRY TABLE

POINT	NORTHING	EASTING	DESCRIPTION
75	679314.81	1588917.48	LOT CORNER
76	679567.16	1588634.10	LOT CORNER
77	679559.74	1588923.54	LOT CORNER
78	679734.10	1588938.38	LOT CORNER
79	679726.69	1588927.68	LOT CORNER
80	679901.05	1588642.66	LOT CORNER
81	679903.64	1588931.81	LOT CORNER
82	680067.99	1588646.93	LOT CORNER
83	680060.59	1588935.94	LOT CORNER
84	680159.45	1588649.28	LOT COR.-PT
85	680208.55	1588641.72	LOT CORNER
86	680235.20	1588719.16	LOT CORNER
87	680229.53	1588940.12	LOT CORNER
88	680259.46	1588610.83	LOT CORNER
89	680296.47	1588649.79	LOT CORNER
90	680608.13	1588577.78	LOT CORNER
91	680302.21	1588524.52	LOT CORNER
92	680611.88	1588532.45	LOT CORNER
93	680302.99	1588512.91	LOT COR.-PC
94	680304.23	1588464.58	LOT CORNER
95	680334.22	1588465.33	LOT CORNER
96	680619.21	1588287.23	LOT CORNER
97	680308.90	1588282.29	LOT CORNER
98	680625.46	1588076.22	LOT CORNER
99	680608.13	1588273.28	LOT COR.-PT
100	680172.77	1588129.74	LOT COR.-PC
101	680108.75	1588128.10	LOT COR.-PC
102	680109.52	1588098.11	LOT CORNER
103	680507.10	1587854.22	LOT CORNER

LOT POINT & GEOMETRY TABLE

CURVE	DELTA	RADIUS	LENGTH
C7	90°14'40"	25.00'	39.38'
C8	11°00'00"	270.00'	51.84'
C9	11°00'00"	330.00'	63.36'
C10	89°45'20"	25.00'	39.16'
C11	11°00'00"	330.00'	63.36'
C12	11°00'00"	270.00'	51.84'
C13	90°00'00"	80.00'	125.66'
C14	90°00'00"	80.00'	125.66'
C15	20°26'21"	140.00'	49.94'
C16	24°33'21"	140.00'	60.00'
C17	40°14'33"	140.00'	98.33'
C18	04°45'45"	140.00'	11.64'
C19	90°00'00"	140.00'	219.91'

LOT POINT & GEOMETRY TABLE

POINT	NORTHING	EASTING	DESCRIPTION
104	678780.90	1588204.11	LOT CORNER

MILLENNIUM Engineering Group, Inc.
 PO BOX 137, LYNDEN WA 98264 (360) 354-8141

DRAWING APPROVAL

REVIEWED FOR CONFORMANCE WITH COUNTY STANDARDS FOR CORRECTNESS OF DIMENSIONS OR DETAILS

BY: *MTD/ndw* DATE: *5/18/98*

DATUM
 MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERDALE, WASHINGTON, 1952" SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS
 SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTLE SHORT PLAT" (AF# 90106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16"W.

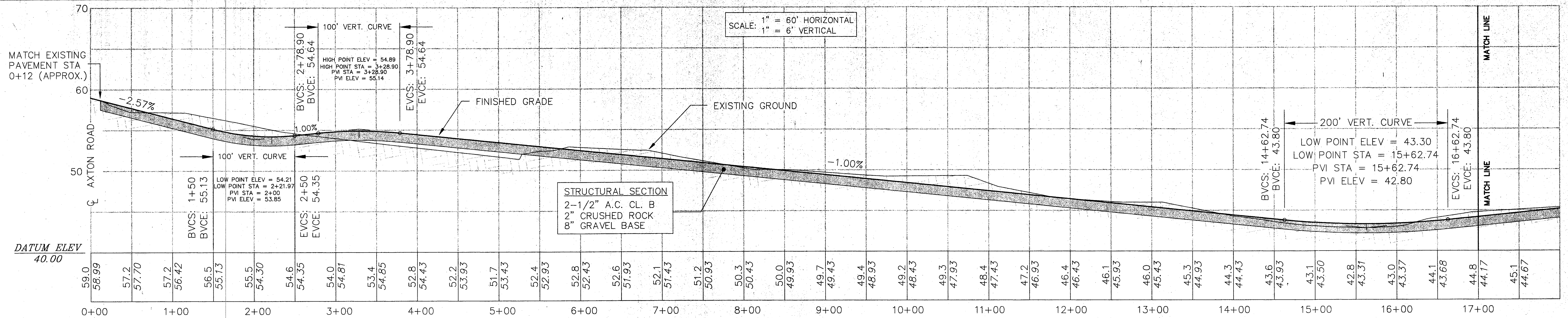
SUBDIVISION PLAN

FOR POTTLE & SONS CONSTRUCTION, INC.

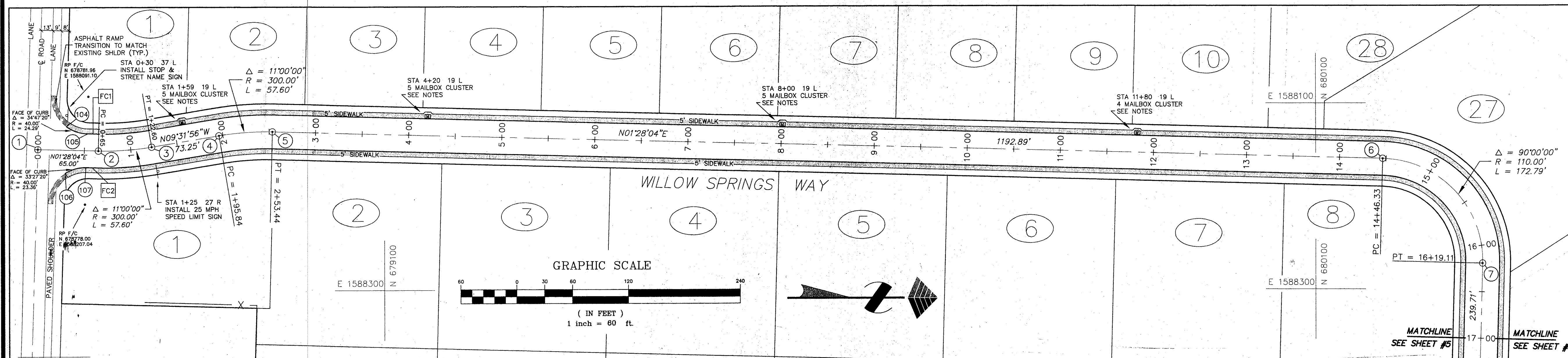
PTN. SW1/4, SEC.22, T39N, R2E, W.M. WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 100'
 DATE: 05/06/98
 DRAWN BY: CMAS
 REVISED:
 JOB NUMBER: 97074

3 OF 13



CENTERLINE PROFILE STA 0+00 TO 17+00



LEGEND

- EASEMENT
- ROAD CENTERLINE
- SIDEWALK
- POINT NUMBER
- FACE OF CURB GEOMETRY
- FENCE LINE
- 46.1 EXISTING GROUND AT CENTERLINE
- 45.93 FINISHED GRADE AT CENTERLINE
- M CLUSTER MAILBOX LOCATION

NOTES

- SEE POTTLE SHORT PLAT FOR EXISTING FENCE LOCATIONS AND NOTES PERTAINING TO RESERVE TRACT #3.
- EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS, CITY OF FERNDALE STANDARDS, OR 1998 APWA STANDARDS, WHICHEVER IS MORE STRINGENT.
- THE TOPOGRAPHY SHOWN DOES NOT REFLECT THE EXISTING EARTH BERM ALONG THE EAST SIDE OF THE EXISTING WESTERLY DRIVEWAY. THIS BERM HAS BEEN IGNORED FOR EARTHWORK CALCULATIONS.
- MAILBOXES SHALL BE CLUSTERS IN THE LOCATIONS SHOWN. INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE DETAIL M-1 (SHEET 3 OF PLANS) AND LOCATION SHALL BE APPROVED BY THE U.S. POSTMASTER GENERAL.

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: MJ Donahue DATE: 5/16/98

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2\"/>

BASIS OF BEARINGS

SOUTH LINE SECTION 22, T39N, R2E, WM, AS SHOWN ON THE \"POTTLE SHORT PLAT\" (AF 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16\"/>

NW COUNTRY ACRES/WHISPERING MEADOWS SCALE: 1\"/>

STREET PLAN & PROFILE
STA 0+00 - 17+00

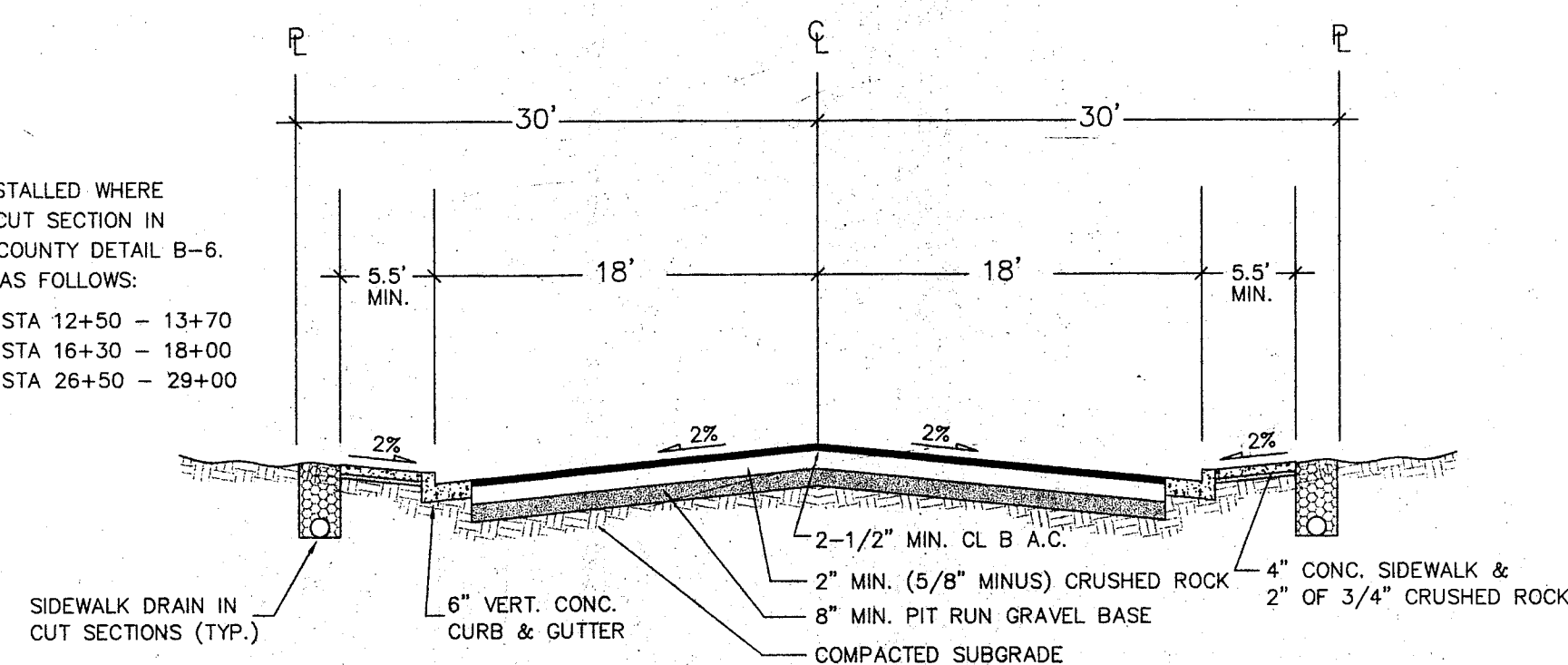
FOR POTTLE & SONS CONSTRUCTION, INC. SHEET: 4 OF 13

PTN. SW1/4, SEC.22, T39N, R2E, WM, AS SHOWN ON THE \"POTTLE SHORT PLAT\" (AF 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON

JOB NUMBER: 97074

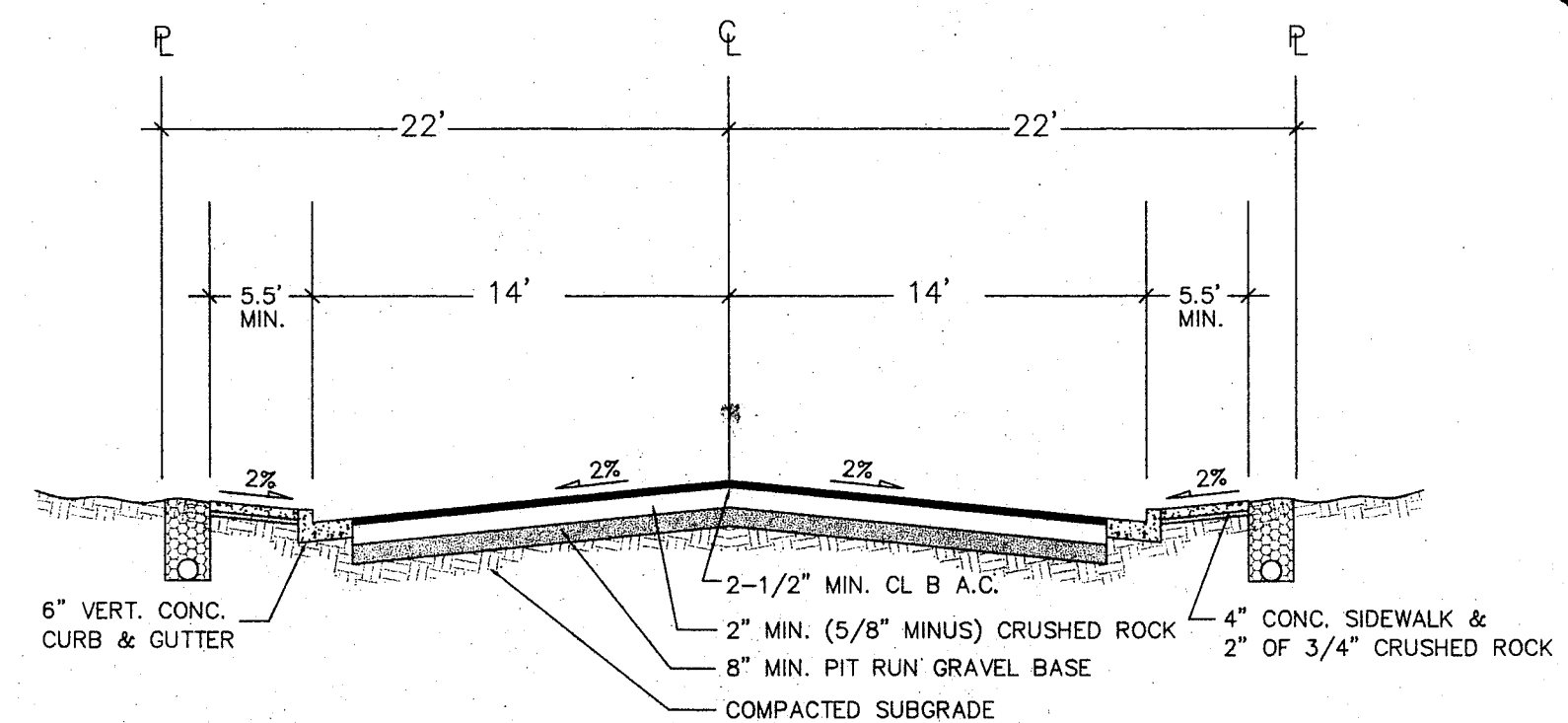
CENTERLINE POINTS & GEOMETRY				
POINT	NORTHING	EASTING	DESCRIPTION	STATION
1	N 678727.56	E 1588147.73	BEGIN CL	0+00.00
2	N 678792.54	E 1588149.39	PC	0+65.00
3	N 678849.90	E 1588145.35	PT	1+22.60
4	N 678922.14	E 1588133.22	PC	1+95.84
5	N 678979.50	E 1588129.18	PT	2+53.44
6	N 680172.00	E 1588159.73	PC	14+46.33
7	N 680279.14	E 1588272.52	PT	16+19.11
8	N 680273.00	E 1588512.14	PC	18+58.82
9	N 680160.22	E 1588619.29	PT	20+31.61
10	N 679078.68	E 1588591.57	PC	31+13.50
11	N 679028.73	E 1588593.07	PT	31+63.50
12	N 679004.36	E 1588595.16	PC	31+87.96
13	N 678954.41	E 1588596.66	PT	32+37.96
14	N 678714.32	E 1588590.50	END CL	34+78.12
104	N 678758.30	E 1588123.36	END CURB/GUTTER/SIDEWALK	0+30.11 25.15 L
105	N 678780.93	E 1588131.09	PT-FACE OF CURB	0+52.93 18 L
106	N 678756.81	E 1588173.11	END CURB/GUTTER/SIDEWALK	0+29.90 24.63 R
107	N 678779.03	E 1588167.05	PT-FACE OF CURB	0+51.95 18 R
108	N 678744.67	E 1588574.22	END CURB/GUTTER/SIDEWALK	34+48.20 17.06 R
109	N 678758.01	E 1588577.62	PC-FACE OF CURB	34+34.78 14 R
110	N 678743.82	E 1588607.82	END CURB/GUTTER/SIDEWALK	34+48.18 16.56 L
111	N 678756.21	E 1588605.58	PC-FACE OF CURB	34+35.87 14 L
112	N 679009.78	E 1588580.59	PT-FACE OF CURB	31+81.31 14.05 R
113	N 679079.14	E 1588573.58	ANG. PT.-FACE OF CURB	31+13.50 18 R
114	N 678964.10	E 1588610.91	ANG. PT.-FACE OF CURB	32+28.21 14.11 L
115	N 679078.22	E 1588609.57	ANG. PT.-FACE OF CURB	31+13.50 18 L
LINE	BEARING	DISTANCE		
FC1	N01°28'04"E	12.07'	FACE OF CURB	
FC2	N01°28'04"E	13.05'	FACE OF CURB	
FC3	N01°28'04"E	192.79'	FACE OF CURB	
FC4	N01°28'04"E	204.05'	FACE OF CURB	
FC5	N05°46'21"W	69.71'	FACE OF CURB	
FC6	N00°40'21"W	114.13'	FACE OF CURB	
CURVE	DELTA	ANGLE	LENGTH	
FC7	074°14'25"	436.00'	55.90'	FACE OF CURB

BACK OF SIDEWALK DRAIN
SIDEWALK DRAIN SHALL BE INSTALLED WHERE SIDEWALK IS INSTALLED IN A CUT SECTION IN ACCORDANCE WITH WHATCOM COUNTY DETAIL B-6. AREAS OF INSTALLATION ARE AS FOLLOWS:
STA 0+75 - 2+50
STA 5+80 - 7+50
STA 8+60 - 11+50
STA 12+50 - 13+70
STA 16+30 - 18+00
STA 26+50 - 29+00



TYPICAL STREET SECTION
STA 0+52.93 TO 31+13.50
NO SCALE

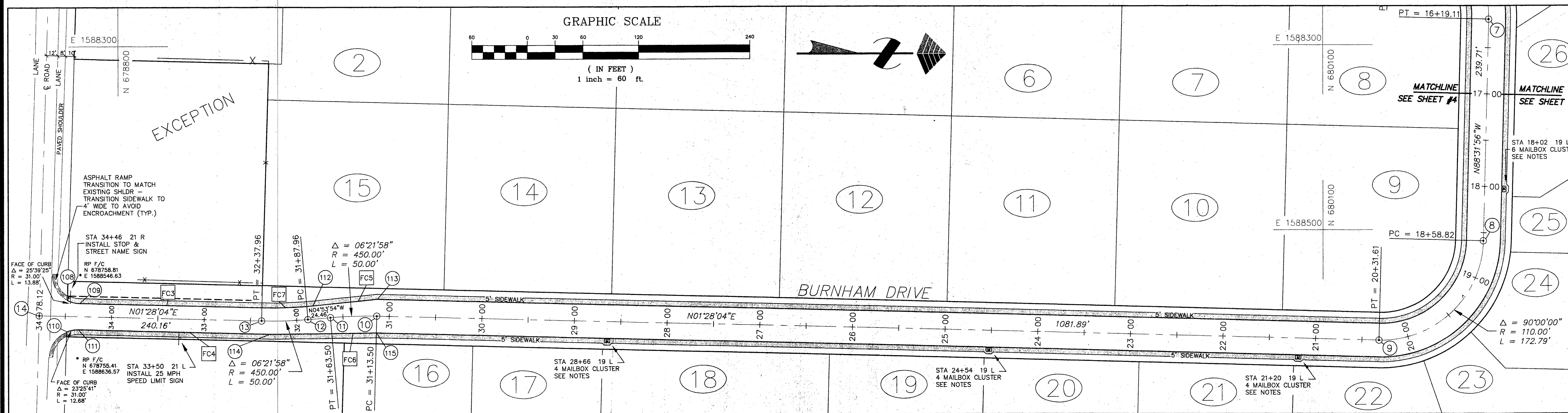
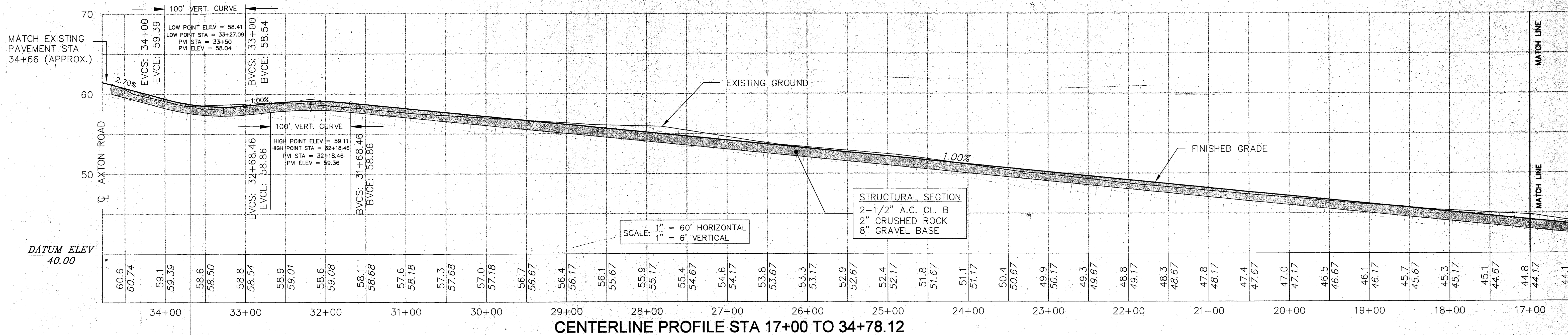
NOTE:
STA 31+13.50 TO 32+37.96 (124.46') WILL BE TRANSITIONED FROM 60' R-O-W TO 44' R-O-W. SEE PLAN GEOMETRY.



TYPICAL STREET SECTION
STA 32+37.96 TO 34+31.96
NO SCALE

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Engineering Group, Inc.

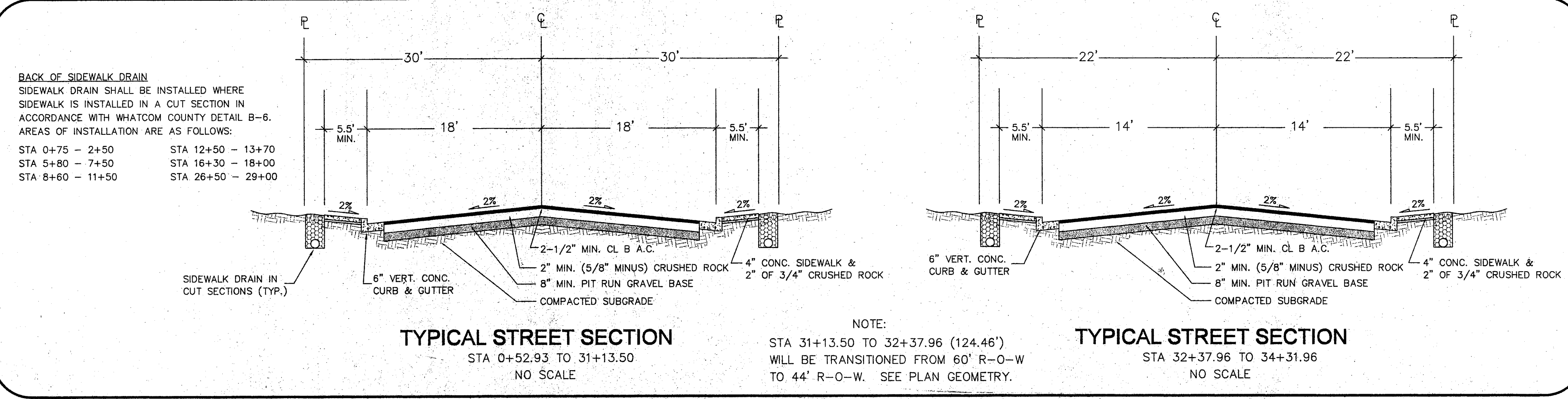
PO BOX 137, LYNDEN WA 98264 (360) 354-8141



- LEGEND**
- EASEMENT
 - ROAD CENTERLINE
 - SIDEWALK
 - (18) POINT NUMBER
 - [FC2] FACE OF CURB GEOMETRY
 - FENCE LINE
 - 46.1 EXISTING GROUND AT CENTERLINE
 - 45.93 FINISHED GRADE AT CENTERLINE
 - [M] MAILBOX CLUSTER LOCATION
- NOTES**
- SEE POTTLE SHORT PLAT FOR EXISTING FENCE LOCATIONS AND NOTES PERTAINING TO RESERVE TRACT #3.
 - EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS, CITY OF FERNDALE STANDARDS, OR 1998 APWA STANDARDS, WHICHEVER IS MORE STRINGENT.
 - THE TOPOGRAPHY SHOWN DOES NOT REFLECT THE EXISTING EARTH BERM ALONG THE EAST SIDE OF THE EXISTING WESTERLY DRIVEWAY. THIS BERM HAS BEEN IGNORED FOR EARTHWORK CALCULATIONS.
 - MAILBOXES SHALL BE CLUSTERS IN THE LOCATIONS SHOWN. INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE DETAIL M-1 (SHEET 3 OF PLANS) AND LOCATION SHALL BE APPROVED BY THE U.S. POSTMASTER GENERAL.

CENTERLINE POINTS & GEOMETRY

POINT	NORTHING	EASTING	DESCRIPTION	STATION
1	N 678727.56	E 1588147.73	BEGIN CL	0+00.00
2	N 678792.54	E 1588149.39	PC	0+65.00
3	N 678849.90	E 1588145.35	PT	1+22.60
4	N 678922.14	E 1588133.22	PC	1+95.84
5	N 678979.50	E 1588129.18	PT	2+53.44
6	N 680172.00	E 1588159.73	PC	14+46.33
7	N 680279.14	E 1588272.52	PT	16+19.11
8	N 680273.00	E 1588512.14	PC	18+58.82
9	N 680160.22	E 1588619.29	PT	20+31.61
10	N 679078.68	E 1588591.57	PC	31+13.50
11	N 679028.73	E 1588593.07	PT	31+63.50
12	N 679004.36	E 1588595.16	PC	31+87.96
13	N 678954.41	E 1588596.66	PT	32+37.96
14	N 678714.32	E 1588590.50	END CL	34+78.12
104	N 678758.30	E 1588123.36	END CURB/GUTTER/SIDEWALK	0+30.11 25.15 L
105	N 678780.93	E 1588131.09	PT-FACE OF CURB	0+52.93 18 L
106	N 678756.81	E 1588173.11	END CURB/GUTTER/SIDEWALK	0+29.90 24.63 R
107	N 678779.03	E 1588167.05	PT-FACE OF CURB	0+51.95 18 R
108	N 678744.67	E 1588574.22	END CURB/GUTTER/SIDEWALK	34+48.20 17.06 R
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FC4	N01°28'04"E	204.05'	FACE OF CURB	
FC5	N05°46'21"W	69.71'	FACE OF CURB	
FC6	N00°40'21"W	114.13'	FACE OF CURB	
CURVE	DELTA	RADIUS	LENGTH	
FC7	071°425"	436.00'	55.09'	FACE OF CURB



MILLENNIUM
Engineering Group, Inc.
PO BOX 137, LYNDEN WA 98264 (360) 354-8141

DRAWING APPROVAL

REVIEWED FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS/COUNTY STANDARDS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

BY: *MJ Donahue* DATE: *5/16/98*

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERNDALE, WASHINGTON, 1922". SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTLE SHORT PLAT" (AF# 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16"W.

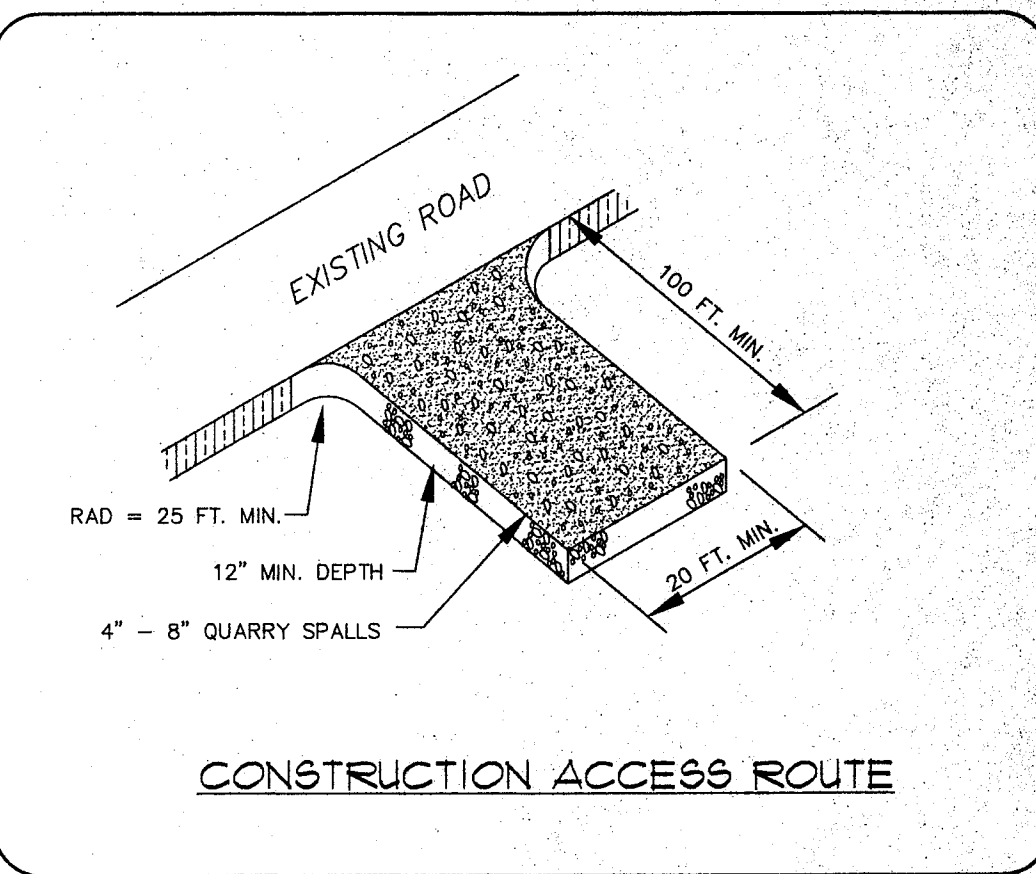
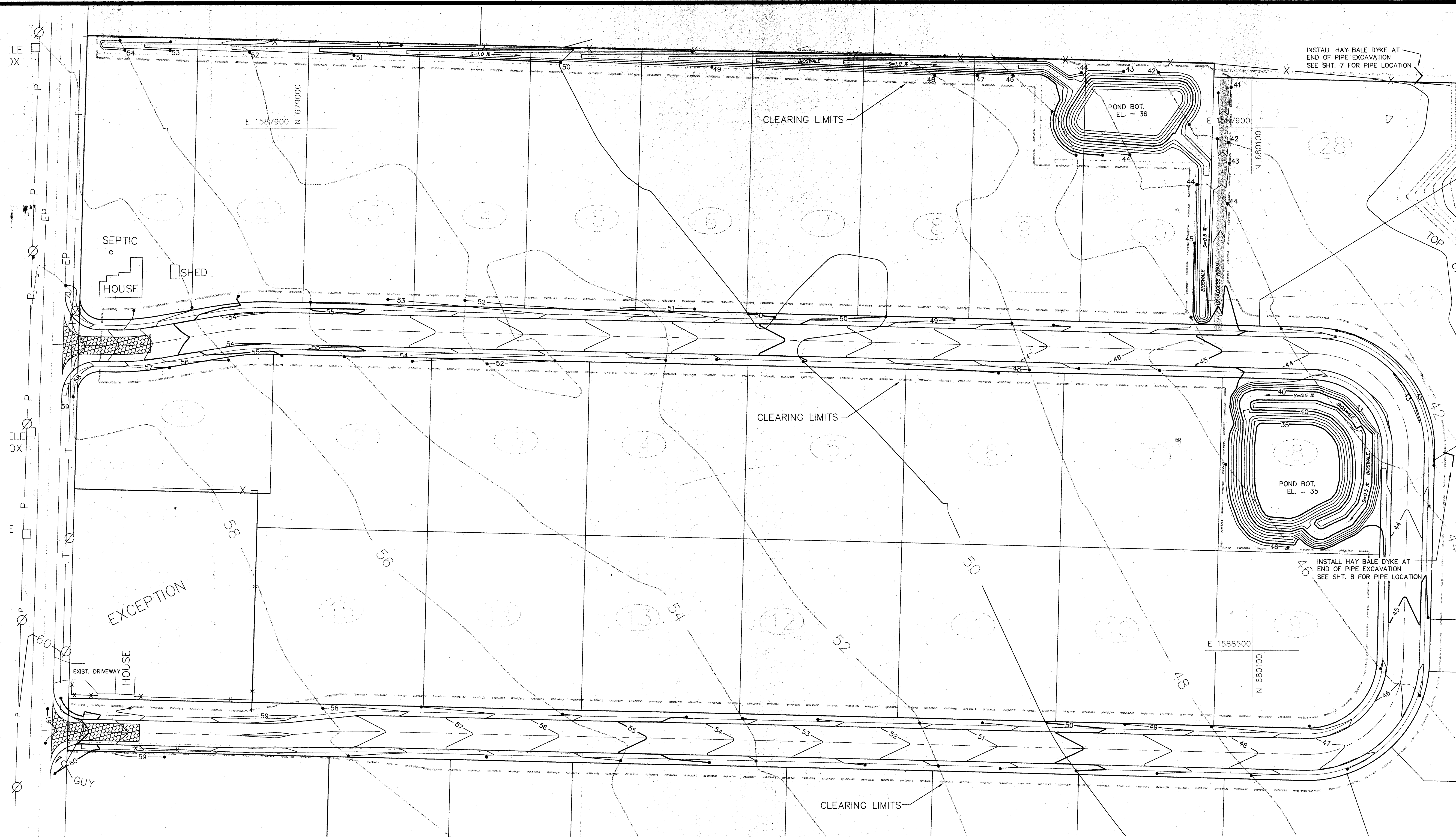
NW COUNTRY ACRES/WHISPERING MEADOWS
STREET PLAN & PROFILE
STA 17+00 - 34+78.12

FOR
POTTLE & SONS CONSTRUCTION, INC.

PTN. SW1/4, SEC.22, T39N, R2E, W.M.
WHATCOM COUNTY, WASHINGTON

DATE: 05/08/98
DRAWN BY: CMAS
REVIEWED: [Signature]
JOB NUMBER: 97074

5 OF 13



- LEGEND**
- MARSHY AREA
 - EXISTING GROUND CONTOUR
 - FINISHED GRADE CONTOUR
 - LOT NUMBER
 - EASEMENT LINE
 - FENCE LINE
 - CONSTRUCTION ACCESS ROAD

- NOTES**
- SEE POTTLE SHORT PLAT FOR EXISTING FENCE LOCATIONS AND NOTES PERTAINING TO RESERVE TRACT #3.
 - EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS, CITY OF FERNDALE STANDARDS, OR 1998 APWA STANDARDS, WHICHEVER IS MORE STRINGENT.
 - THE TOPOGRAPHY SHOWN DOES NOT REFLECT THE EXISTING EARTH BERM ALONG THE EAST SIDE OF THE EXISTING WESTERLY DRIVEWAY. THIS BERM HAS BEEN IGNORED FOR EARTHWORK CALCULATIONS.
 - ALL CUT & FILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
 - HYDROSEED ALL EXPOSED AREAS IMMEDIATELY AFTER CLEARING.
 - EXCAVATE DETENTION PONDS AN ADDITIONAL 6" FOR SEDIMENTATION.
 - DURING CONSTRUCTION AND UNTIL THE SITE IS STABILIZED THE CONTRACTOR SHALL PROVIDE ANY AND ALL OTHER EROSION & SEDIMENTATION CONTROL MEASURES TO ASSURE COMPLIANCE WITH WHATCOM COUNTY AND WASHINGTON STATE D.O.E. WATER QUALITY STANDARDS.

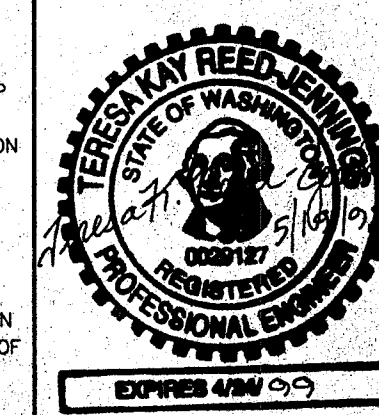
DRAWING APPROVAL

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS/COUNTY STANDARDS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

BY MJD Donahue DATE 5/18/98

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERNDALE, WASHINGTON, 1952". SPOT ELEVATION OF 68' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

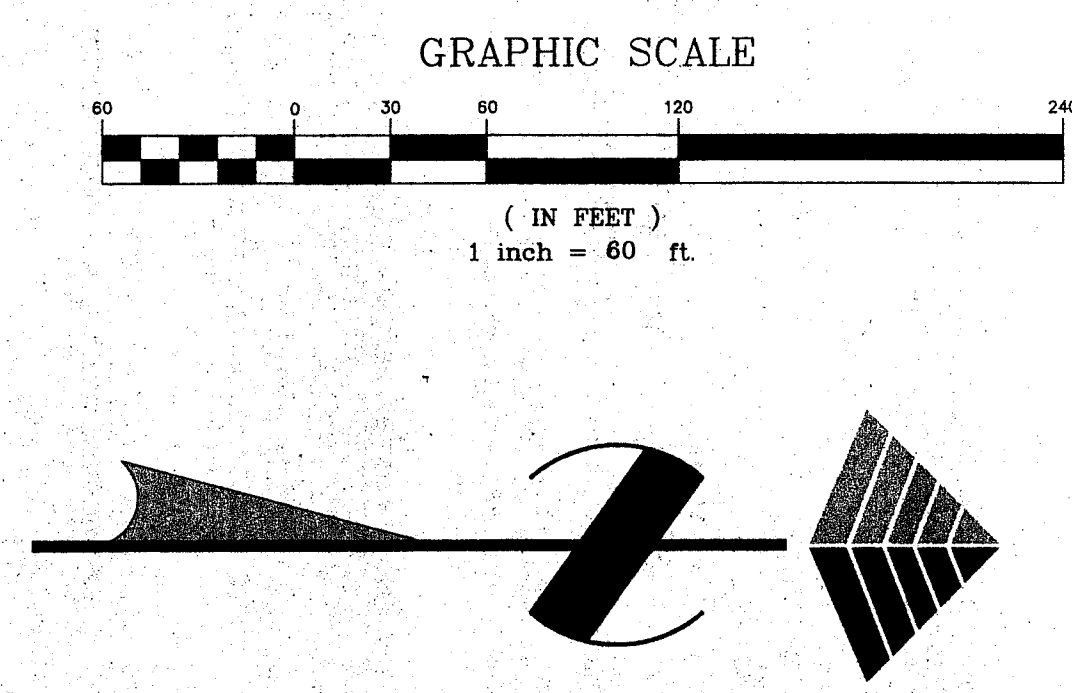
BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTLE SHORT PLAT" (AF# 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING 188°17'16" W.



EARTHWORK QUANTITIES

1. R/W & ACCESS ROAD STRIPPING (12" DEEP)	7,709 CY CUT
2. WEST DETENTION POND/BIOSWALES	3,920 CY CUT
3. NORTH DETENTION POND/BIOSWALE	6,978 CY CUT
TOTAL	18,607 CY CUT

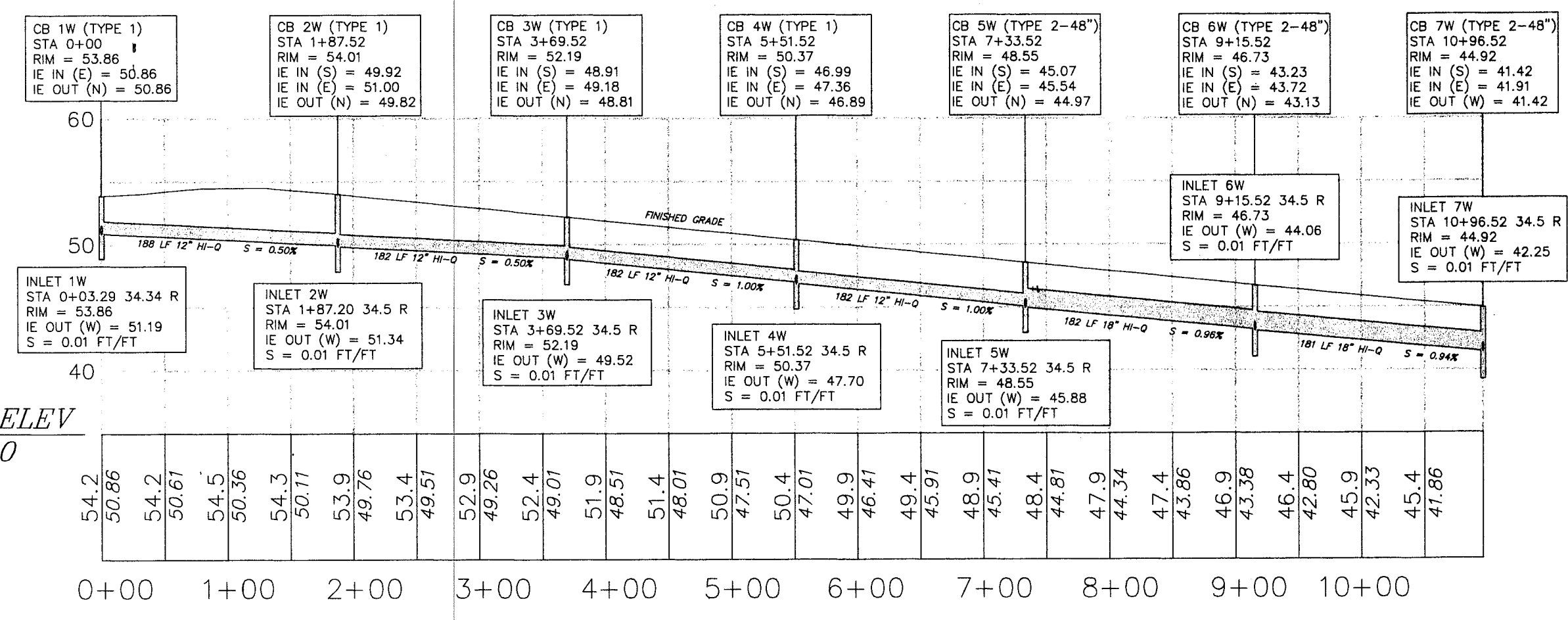
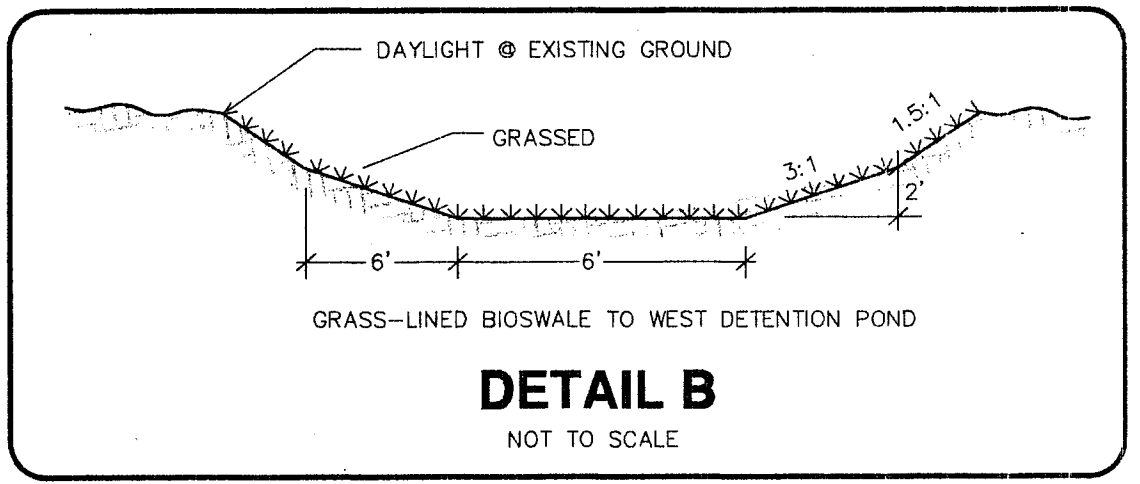
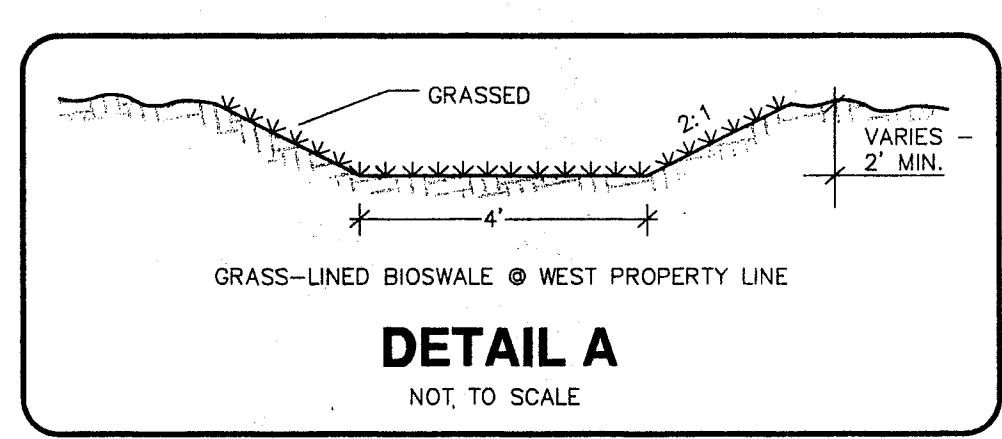
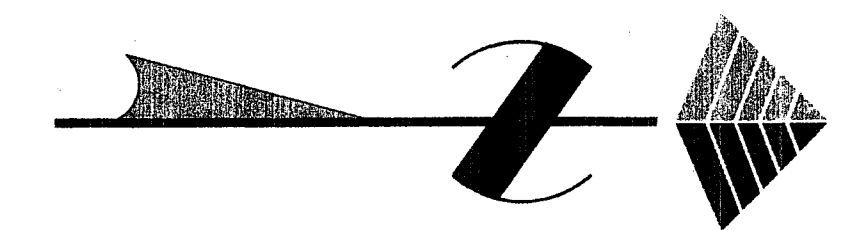
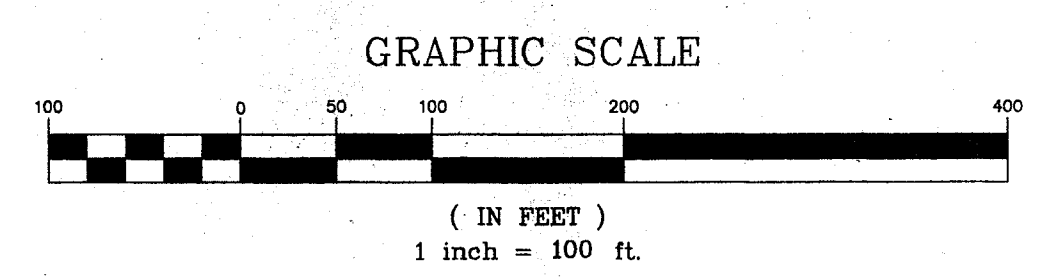
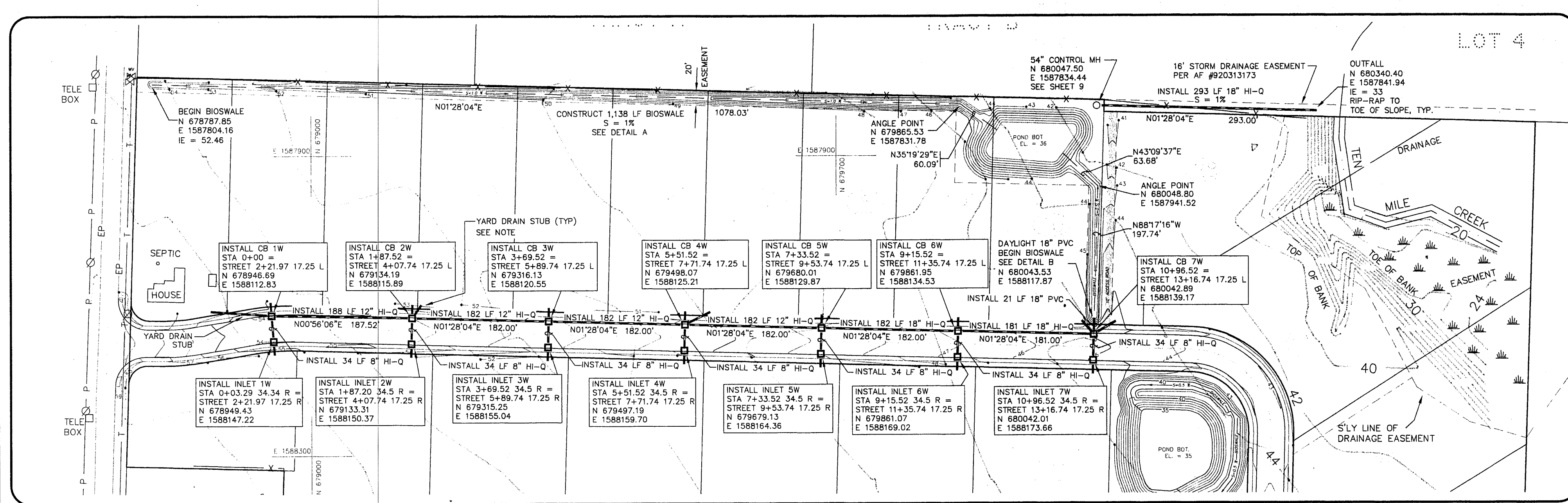
NOTE:
EARTHWORK QUANTITIES ARE BASED ON 2 FT CONTOUR MAP PREPARED BY LARRY STEELE AND ASSOCIATES.
EARTHWORK CUT MAY BE SPREAD OVER LOTS OUTSIDE OF RIGHT OF WAY.



MILLENNIUM
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PO BOX 137, LYNDEN WA 98264 (360) 354-8141

NW COUNTRY ACRES/WHISPERING MEADOWS
GRADING & TEMPORARY EROSION CONTROL
FOR
POTTLE & SONS CONSTRUCTION, INC.
PTN. SW1/4, SEC.22, T39N, R2E, W.M.
WHATCOM COUNTY, WASHINGTON

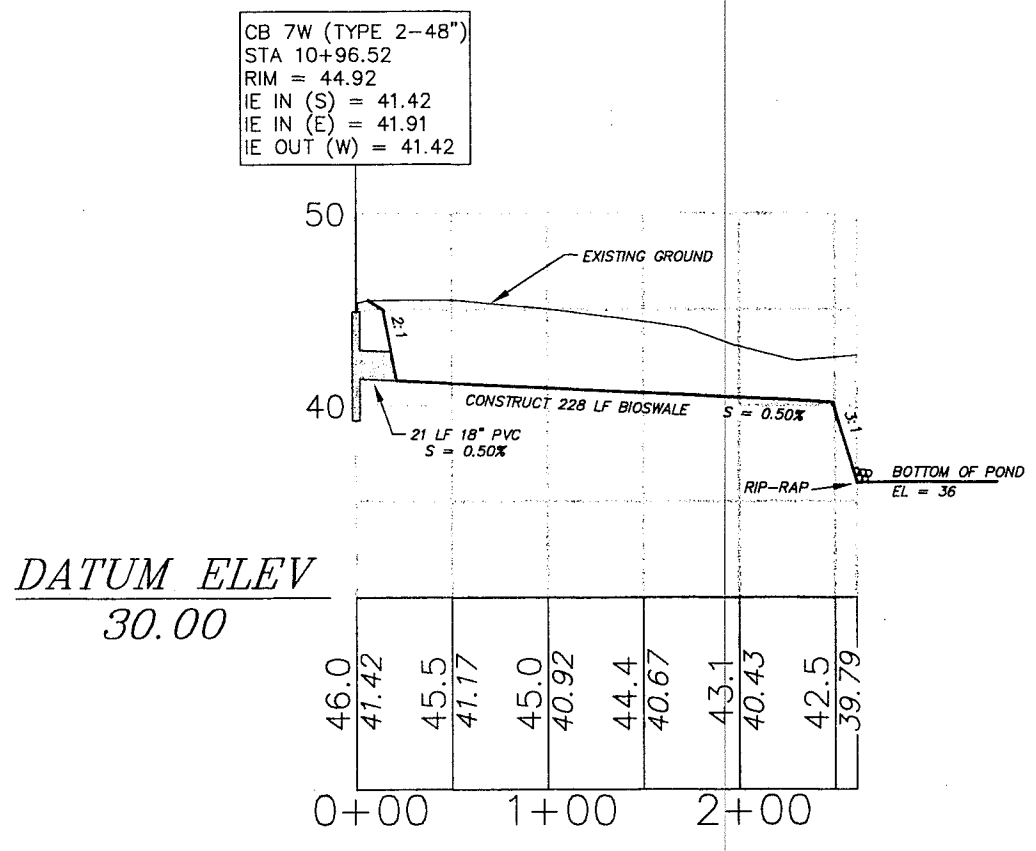
SCALE: 1" = 60'
DATE: 05/06/98
DRAWN BY: CMAS
REVISIONS:
SHEET: 6 OF 13
JOB NUMBER: 97074



DATUM ELEV
35.00

WEST STORM PROFILE

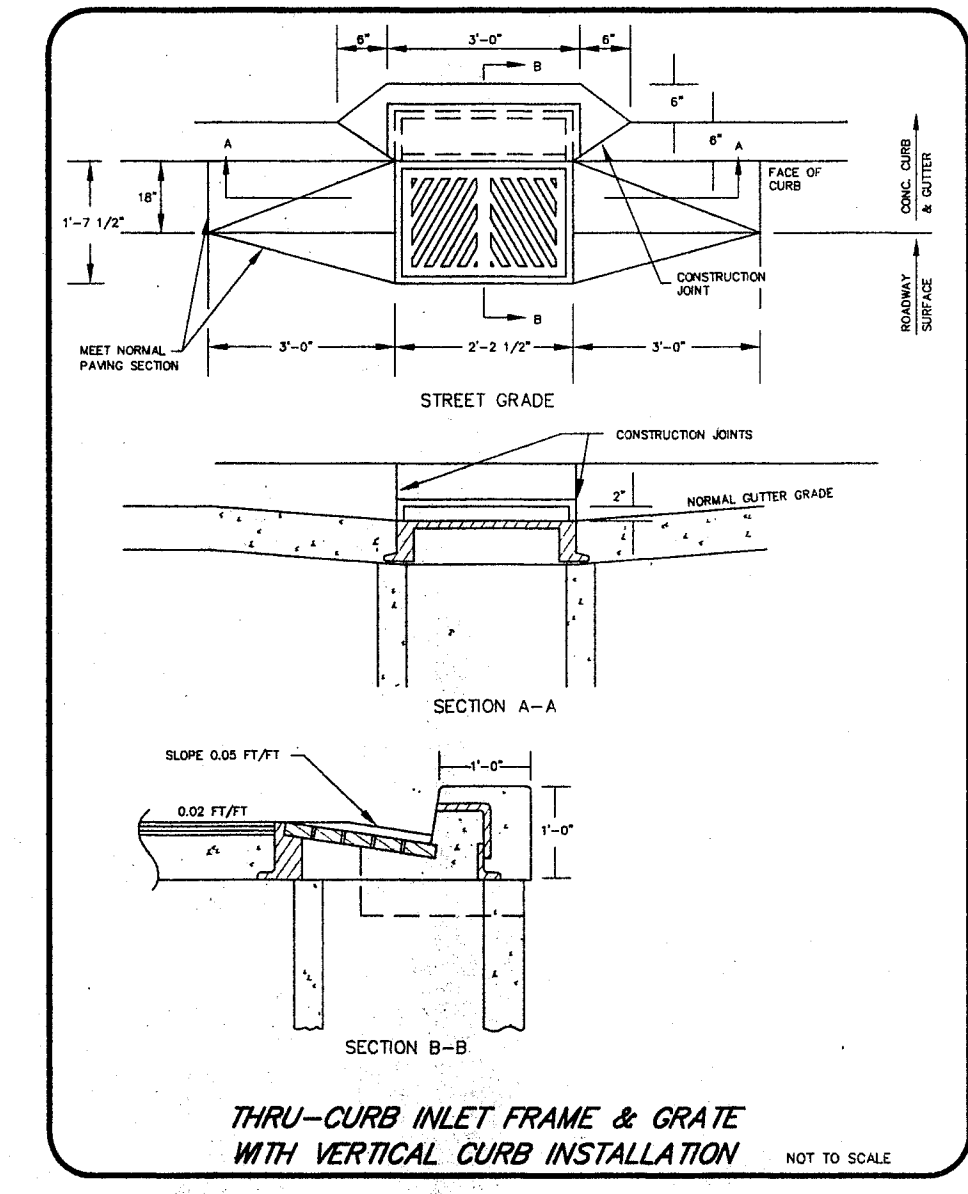
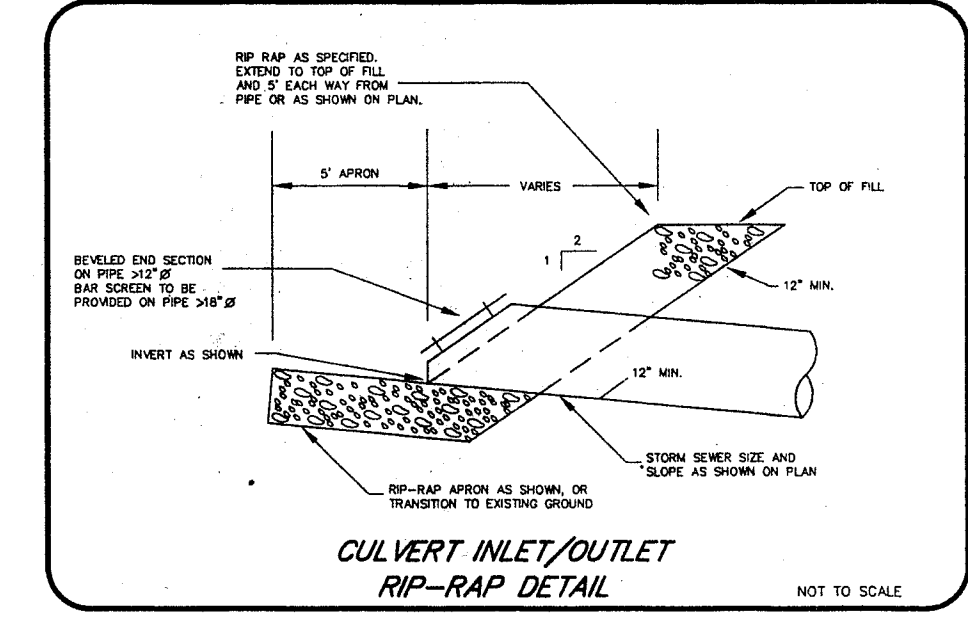
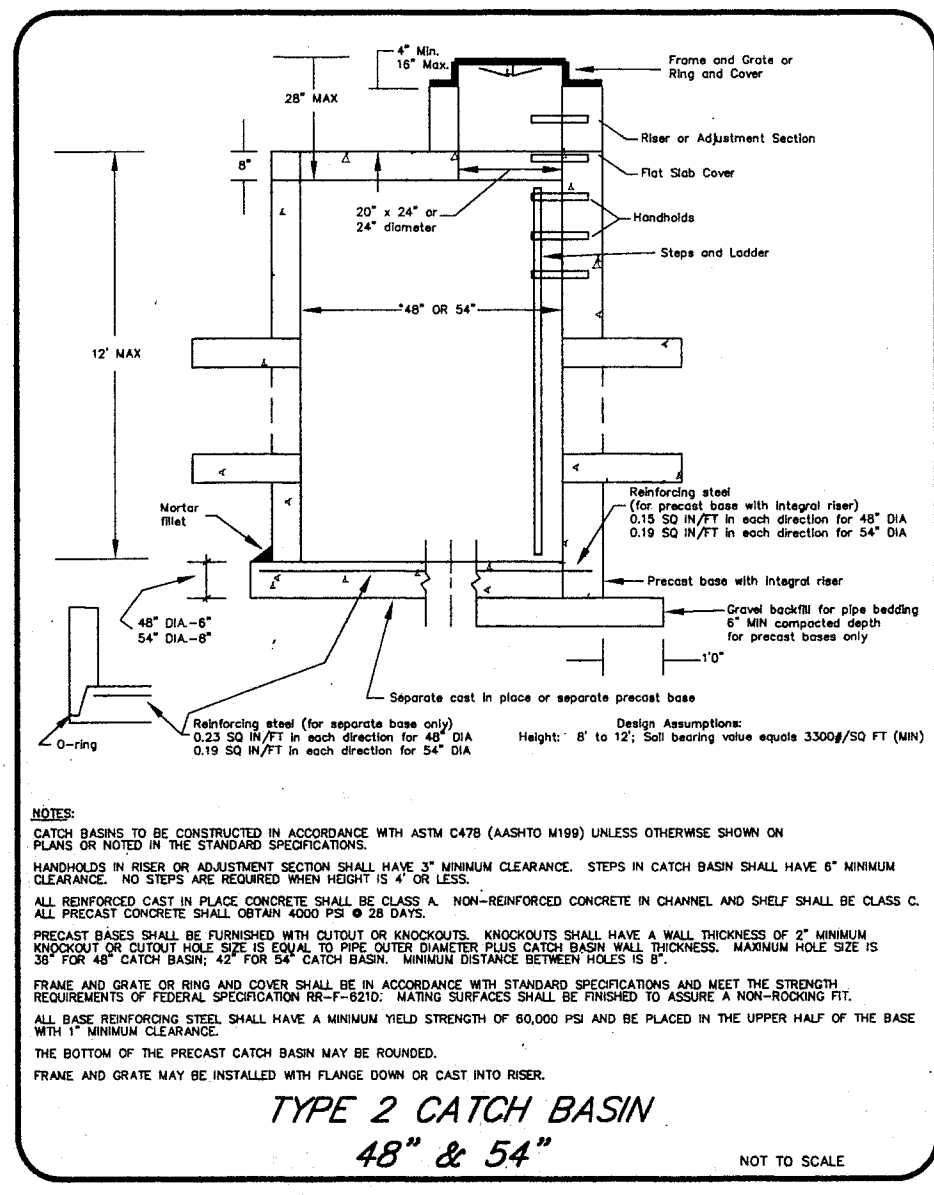
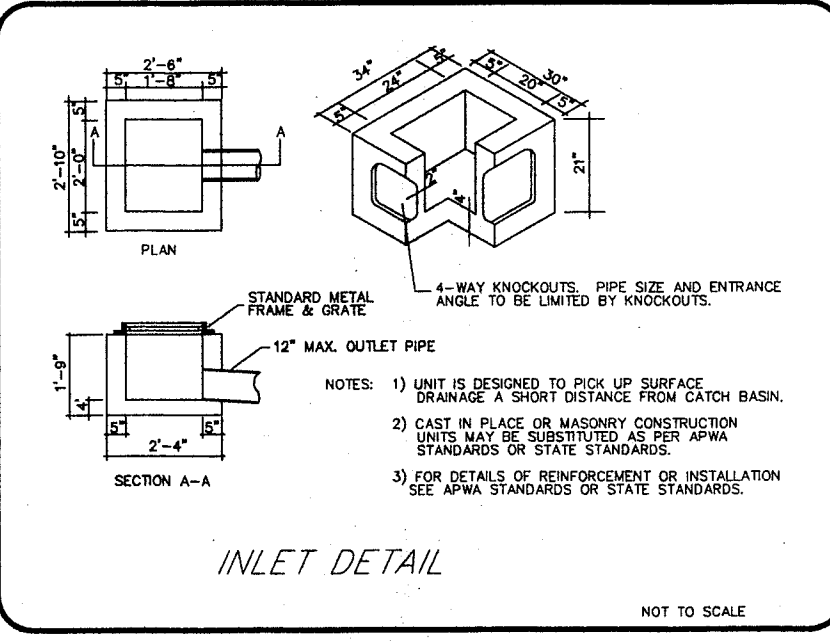
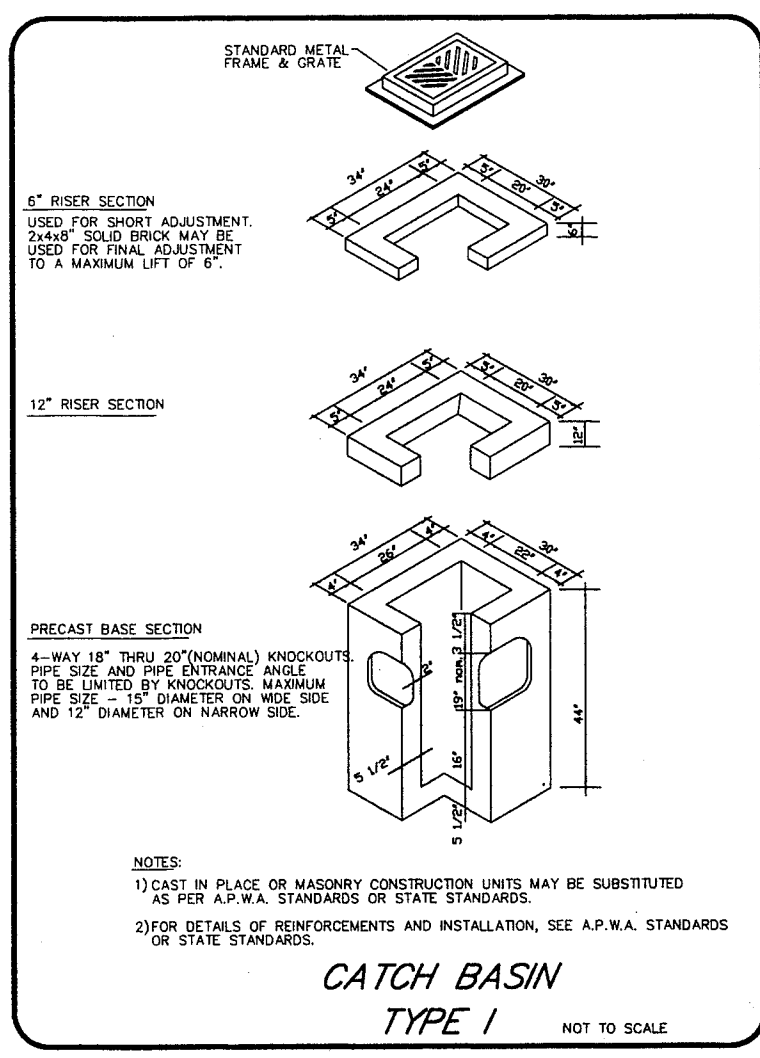
SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL



DATUM ELEV
30.00

WEST BIOSWALE PROFILE

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL



LEGEND

- LOT NUMBER
- CATCH BASIN/INLET
- STORM MAIN
- EASEMENT LINE
- EXISTING GROUND CONTOUR
- FINISHED GRADE CONTOUR
- EXISTING ELEVATION IN PROFILE
- INVERT ELEVATION IN PROFILE

NOTES

- EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS OR CITY OF FERNDALE STANDARDS, WHICHEVER IS MORE STRINGENT.
- MINIMUM 6" HI-Q YARD DRAIN STUBS SHALL BE INSTALLED AT ALL LOTS FROM NEAREST CB/INLET. YARD DRAIN STUBS SHALL BE CAPPED APPROXIMATELY 5 FEET INTO LOTS. SEE PLAN VIEW FOR APPROXIMATE LOCATIONS.
- TYPE 1 CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL ST-1 OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- TYPE 2 CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL ST-2 OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- INLETS SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS ST-7 AND ST-8 OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- PIPE OUTLETS, VERTICAL DROPS, AND ANGLE POINTS IN BIOSWALES SHALL BE RIP-RAPPED WITH 2"-4" QUARRY SPALLS. RIP-RAP AND OUTLET PIPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL ST-9 OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- ALL CATCH BASINS AND INLETS SHALL HAVE THRU-CURB FRAME AND GRATE. SEE DETAILS.

DRAWING APPROVAL APPROVAL STAMPS
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS/CITY STANDARDS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTIONS OF DIMENSIONS OR DETAILS.
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING.

BY M. Donahue DATE 5/18/98

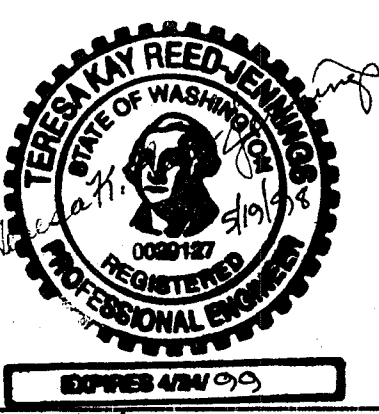
DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERNDAL, WASHINGTON, 1952". SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

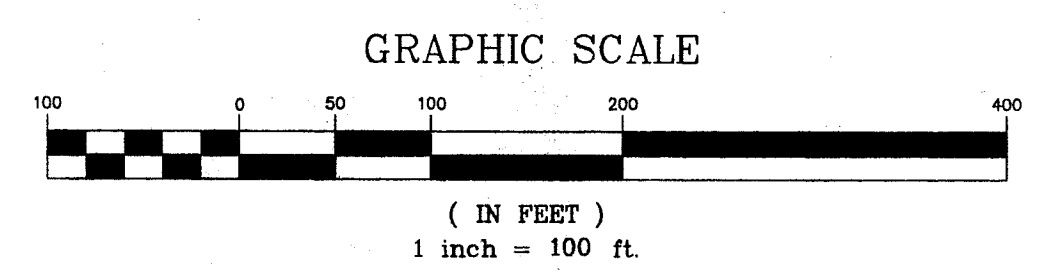
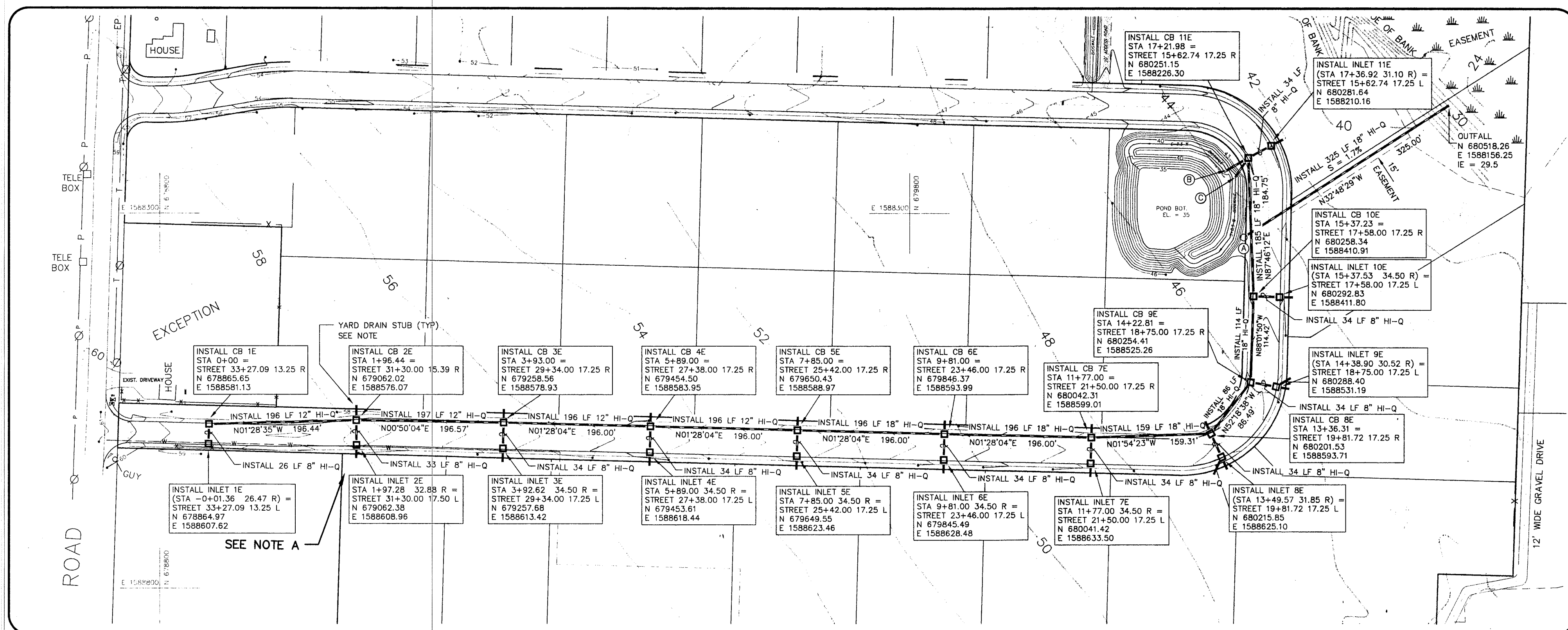
BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W4M, AS SHOWN ON THE "FOTILE SHORT PLAT" (AFA 90101615), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16"W.

NW COUNTRY ACRES/WHISPERING MEADOWS
STORM DRAINAGE-WEST
PLAN & PROFILE
FOR
POTTE & SONS CONSTRUCTION, INC.
PTN. SW1/4, SEC.22, T39N, R2E, W4M.
WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 100'
DATE: 05/06/98
DRAWN BY: CMAS
DESIGNED BY:
CHECKED BY:
JOB NUMBER: 97074

MILLENNIUM
Engineering Group, Inc.
PO BOX 137, LYNDEN WA 98264 (360) 354-8141





NOTE A

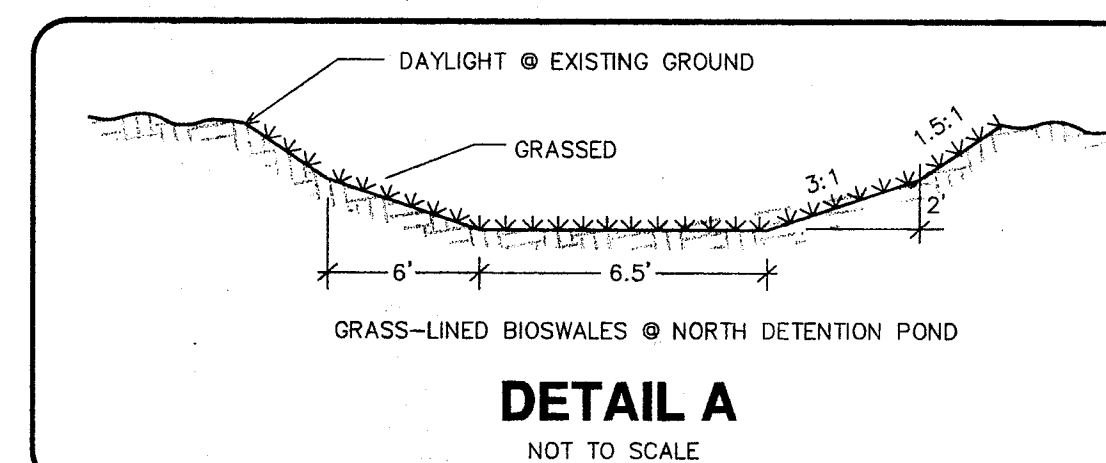
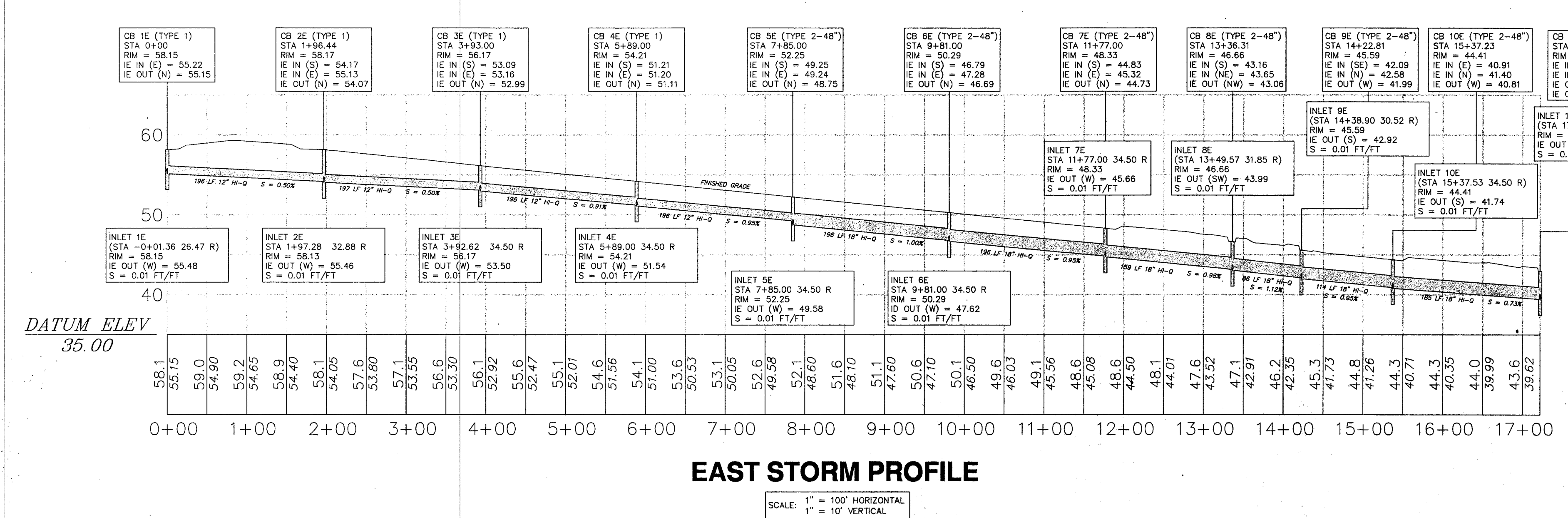
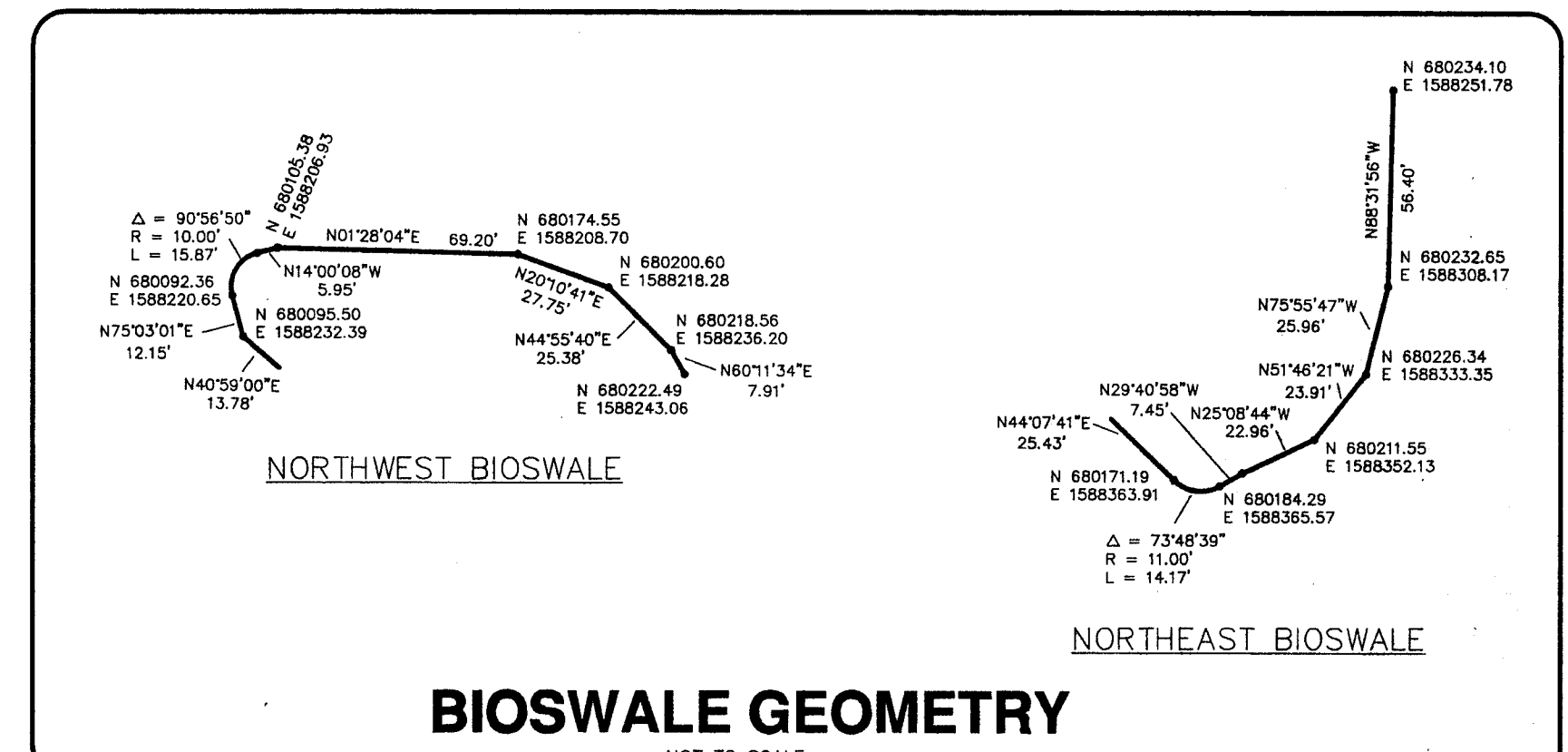
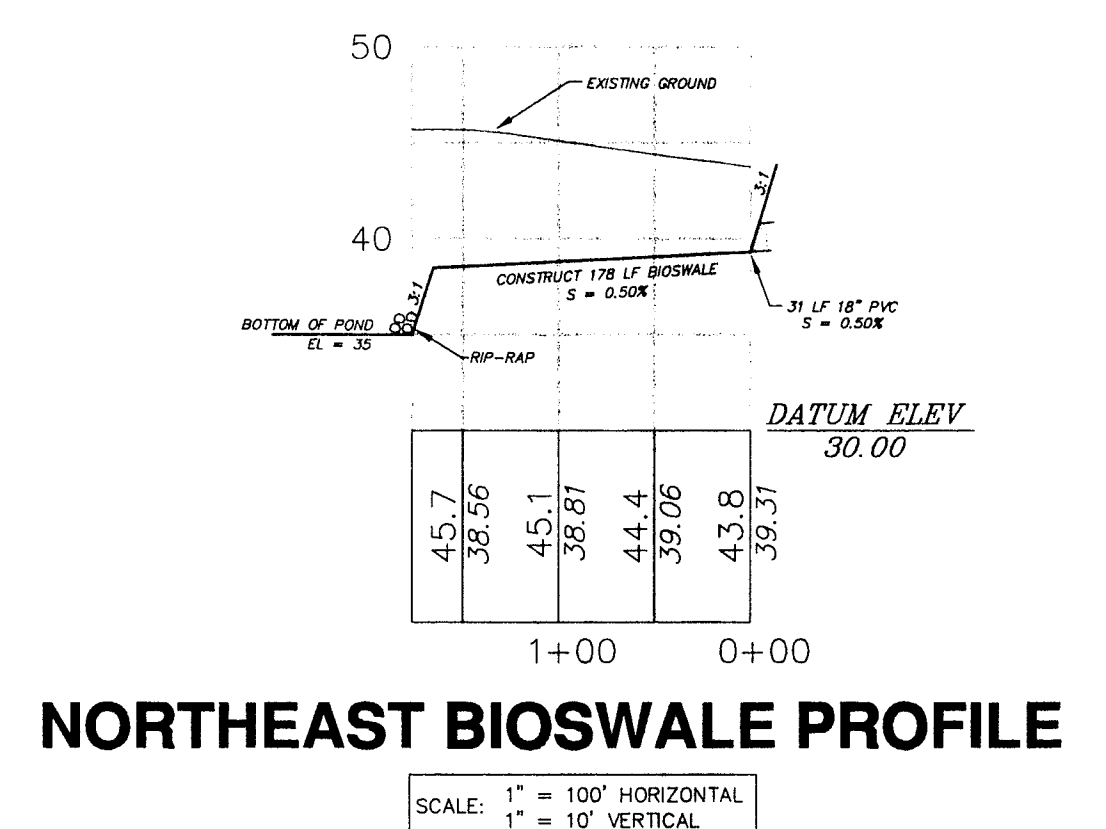
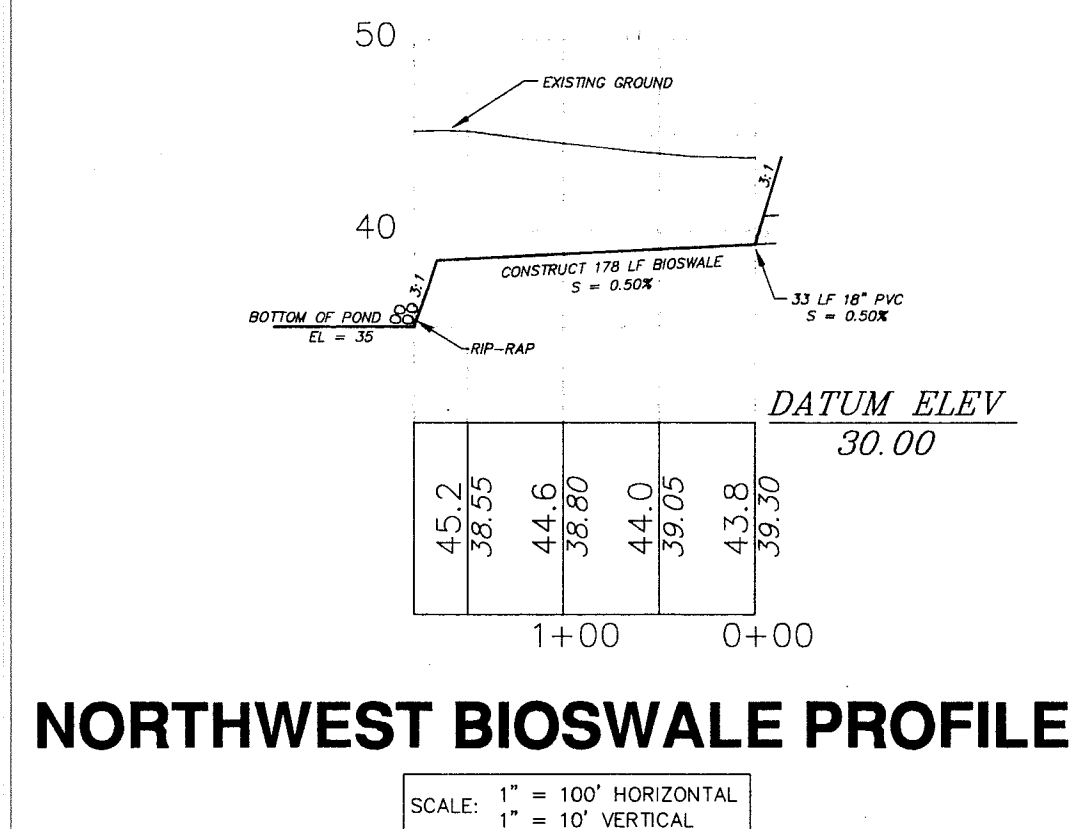
AN 8" WATERMAIN EXISTS BENEATH INLETS 1E TO 3E. THE TOP OF EXISTING WATERMAIN IN THIS AREA IS BETWEEN 36" AND 49" DEEP. THE BASE OF THE PROPOSED INLETS IS BETWEEN 1" AND 13" ABOVE THE TOP OF THE WATERMAIN. CAUTION MUST BE TAKEN DURING INSTALLATION OF THE INLETS TO INSURE THAT THE 8" WATERMAIN IS UNDAMAGED.

LEGEND

- LOT NUMBER
- CATCH BASIN/INLET
- STORM MAIN
- EASEMENT LINE
- 50 EXISTING GROUND CONTOUR
- 46 FINISHED GRADE CONTOUR
- 51.4 EXISTING ELEVATION IN PROFILE
- 48.01 INVERT ELEVATION IN PROFILE
- (STA -0+01.36) EXTENDED STATIONS - NOT ADJACENT TO ALIGNMENT

NOTES

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- ALL CATCH BASINS AND INLETS SHALL HAVE THRU-CURB FRAME AND GRATE. SEE DETAILS.



DETENTION POND STRUCTURES		
② 54\"/>	③ DAYLIGHT 33 LF 18\"/>	④ DAYLIGHT 31 LF 18\"/>

DRAWING APPROVAL

REVIEW FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS/COUNTY STANDARDS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

DATE: 5/10/98

DATUM

MEAN SEA LEVEL PER U.S.G.S. 7-1/2\"/>

BASIS OF BEARINGS

SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE \"POTTE SHORT PLAT\" (AF# 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N87°17'W.

STORM DRAINAGE-EAST/NORTH

PLAN & PROFILE

FOR POTTLE & SONS CONSTRUCTION, INC.

8 OF 13

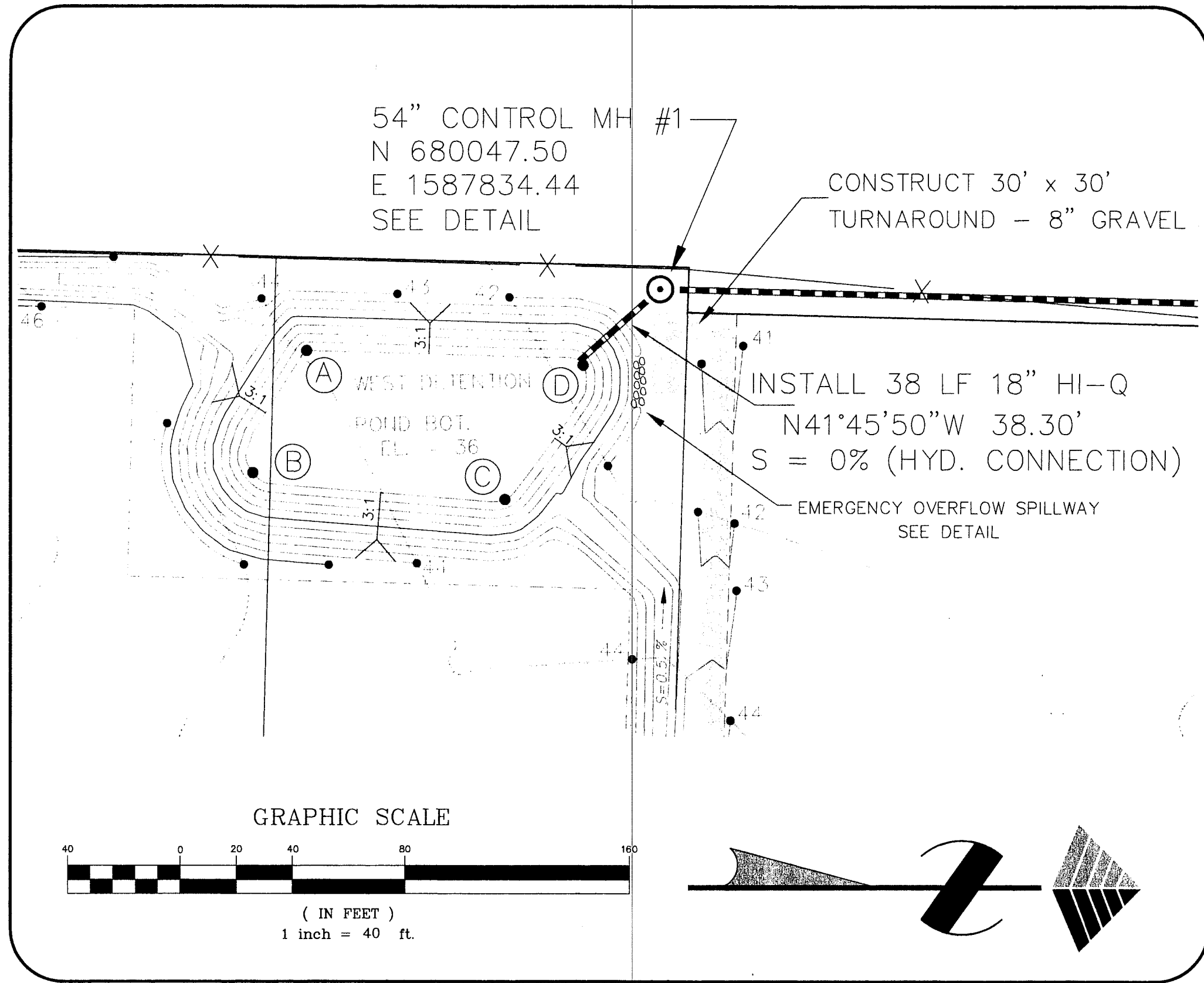
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DRAWN BY: CMAS

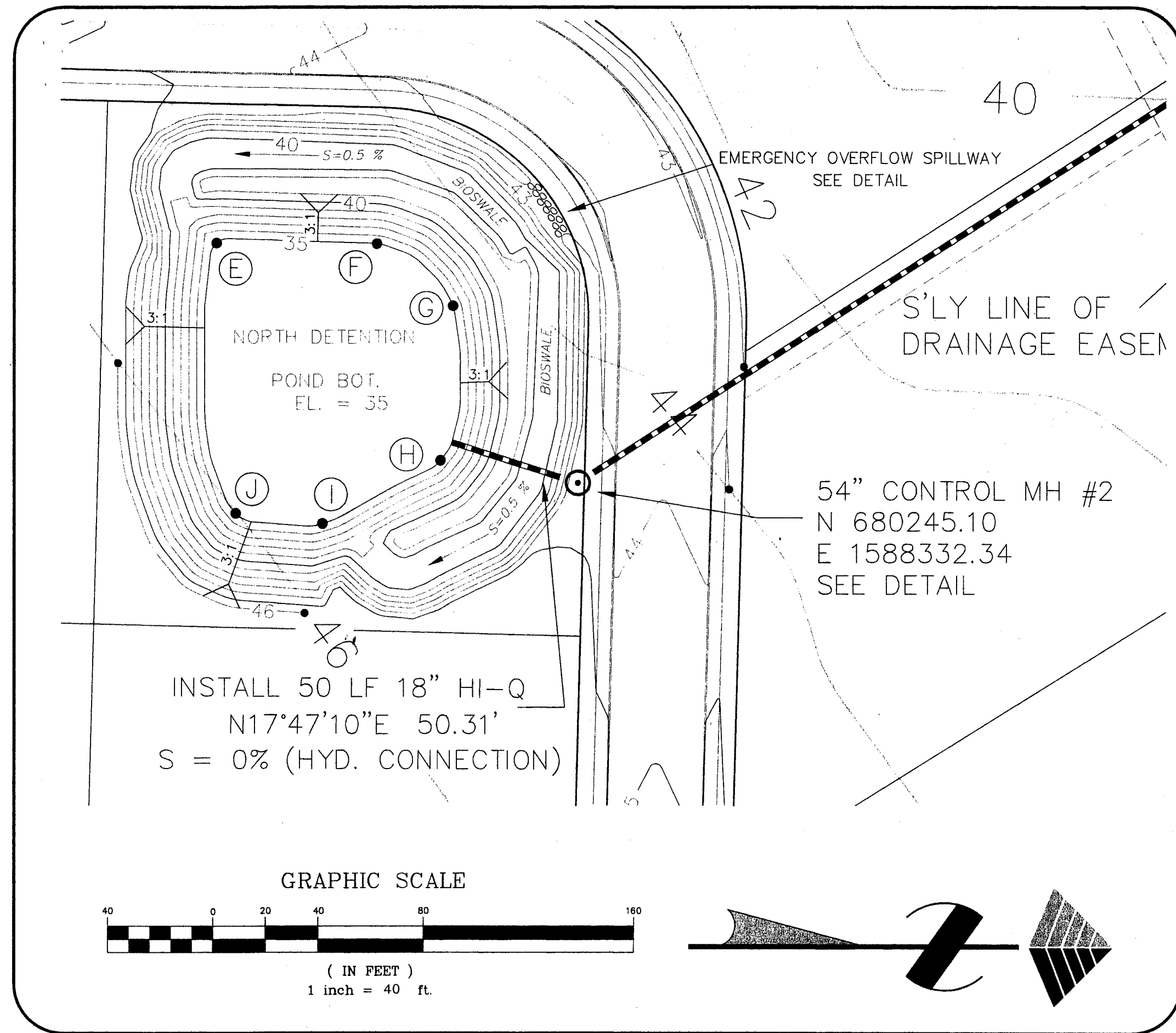
REVISIONS:

JOB NUMBER: 97074



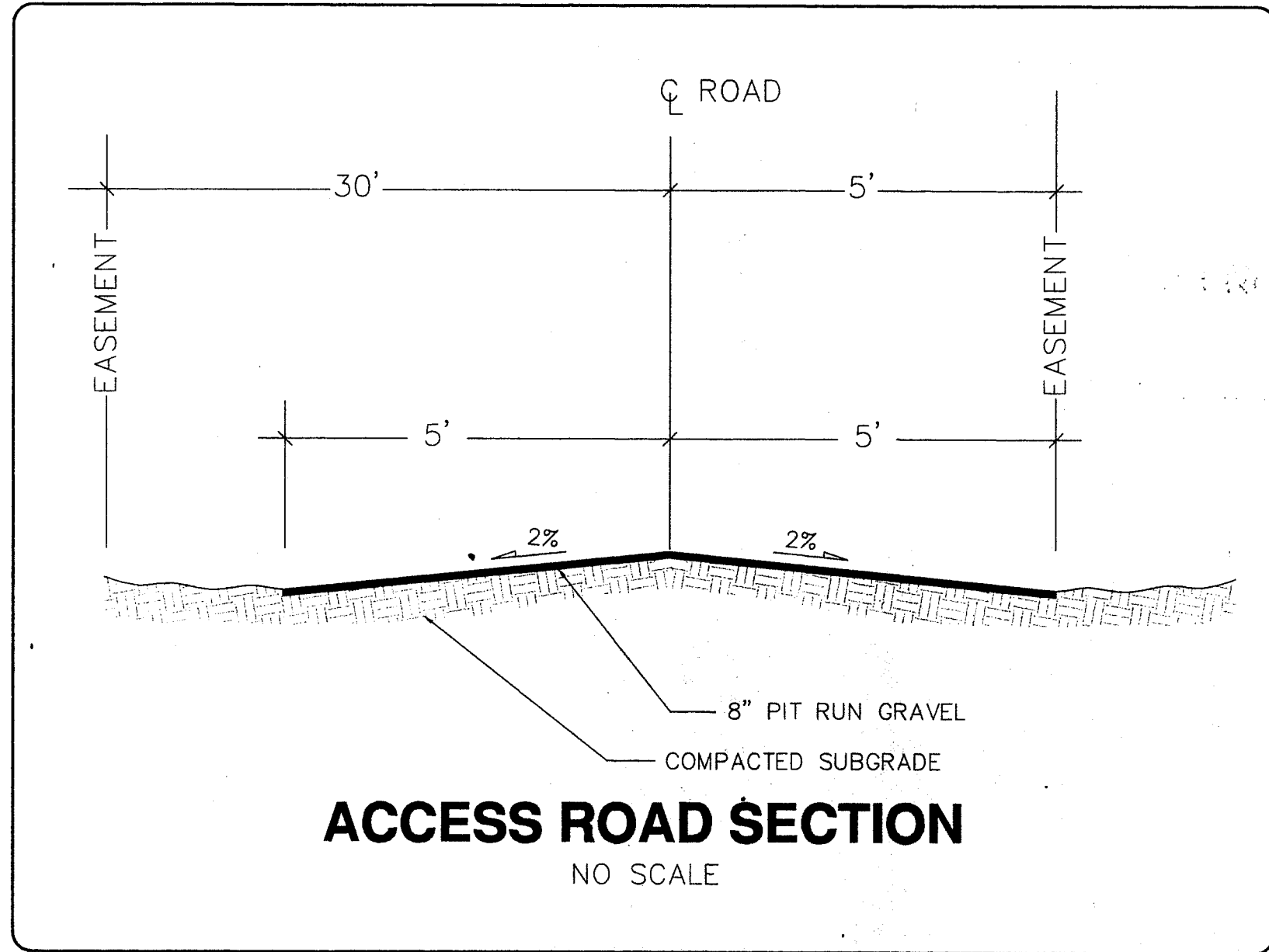
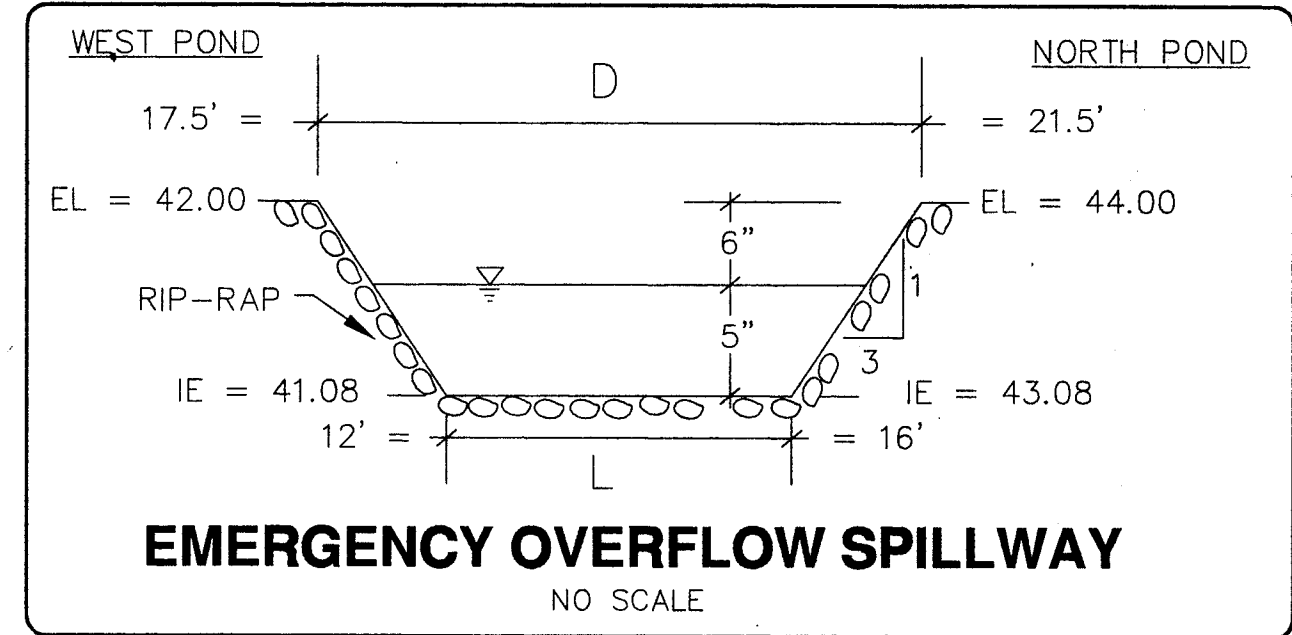
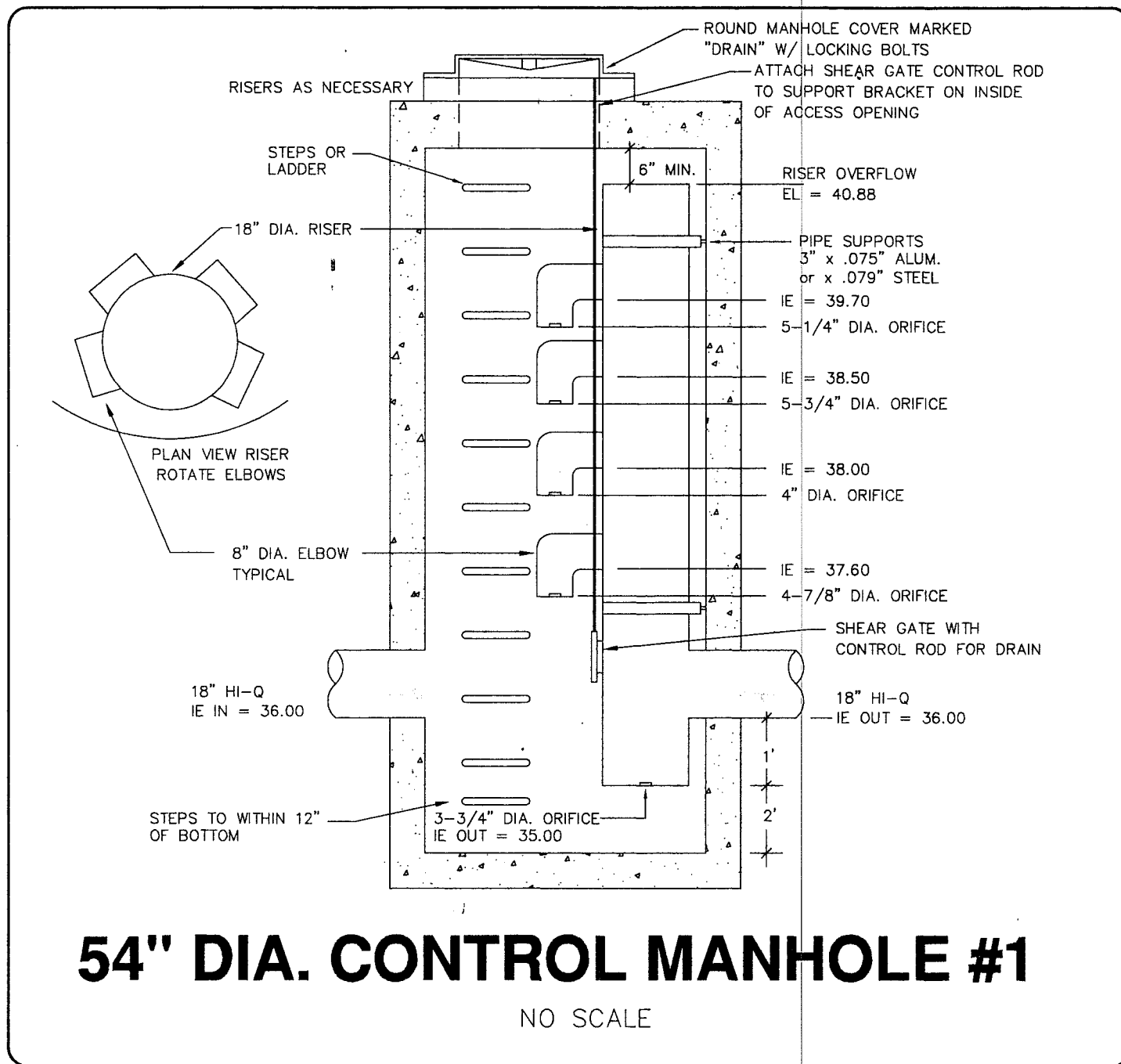
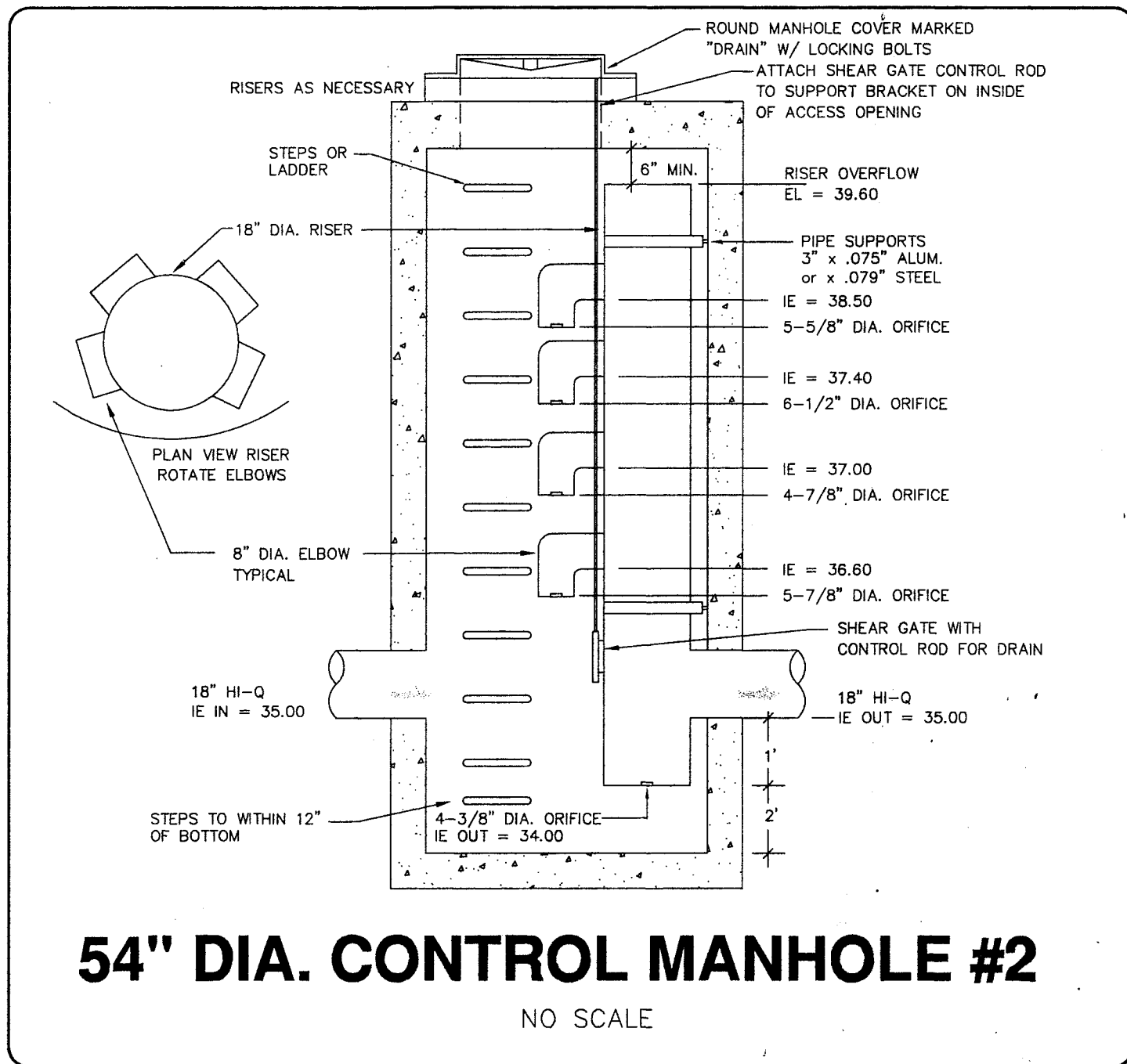
WEST DETENTION POND GEOMETRY

POINT	NORTHING	EASTING
A	N 679921.64	E 1587856.31
B	N 679902.40	E 1587899.76
C	N 679992.19	E 1587909.21
D	N 680020.06	E 1587861.45



NORTH DETENTION POND GEOMETRY

POINT	NORTHING	EASTING
E	N 680107.79	E 1588241.11
F	N 680168.79	E 1588241.44
G	N 680197.68	E 1588265.10
H	N 680192.85	E 1588323.75
I	N 680148.06	E 1588347.75
J	N 680115.08	E 1588343.88



WEST POND LEVEL POOL TABLE

STORM	PRE-DEVELOPMENT FLOW	POST-DEVELOPMENT FLOW	CONTROL FLOW	POND STORAGE ELEVATION	POND STORAGE VOLUME
6 MONTH	0.46 CFS	1.52 CFS	0.47 CFS	37.49	8,810 CF
1 YEAR	0.90 CFS	2.52 CFS	0.90 CFS	37.93	11,720 CF
2 YEAR	1.41 CFS	3.60 CFS	1.40 CFS	38.36	14,880 CF
10 YEAR	3.11 CFS	6.64 CFS	3.11 CFS	39.58	24,805 CF
25 YEAR	4.06 CFS	8.21 CFS	4.07 CFS	40.13	29,710 CF
100 YEAR	5.70 CFS	10.85 CFS	5.65 CFS	41.00	38,405 CF

NORTH POND LEVEL POOL TABLE

STORM	PRE-DEVELOPMENT FLOW	POST-DEVELOPMENT FLOW	CONTROL FLOW	POND STORAGE ELEVATION	POND STORAGE VOLUME
6 MONTH	0.62 CFS	2.25 CFS	0.63 CFS	36.46	14,590 CF
1 YEAR	1.20 CFS	3.61 CFS	1.20 CFS	36.87	19,095 CF
2 YEAR	1.87 CFS	5.06 CFS	1.87 CFS	37.26	23,570 CF
10 YEAR	4.13 CFS	9.09 CFS	4.12 CFS	38.40	37,650 CF
25 YEAR	5.38 CFS	11.16 CFS	5.36 CFS	38.94	44,895 CF
100 YEAR	7.56 CFS	14.61 CFS	7.60 CFS	39.76	56,705 CF

LEGEND

LOT NUMBER



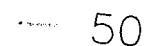
CONTROL MANHOLE



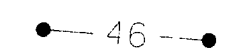
STORM MAIN



EASEMENT LINE



EXISTING GROUND CONTOUR



FINISHED GRADE CONTOUR



POND BASE GEOMETRY POINT

NOTES

- EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS OR CITY OF FERNDALE STANDARDS, WHICHEVER IS MORE STRINGENT.
- MINIMUM 6" HI-Q YARD DRAIN STUBS SHALL BE INSTALLED AT ALL LOTS FROM NEAREST CB/INLET. YARD DRAIN STUBS SHALL BE CAPPED APPROXIMATELY 5 FEET INTO LOTS. SEE PLAN VIEW FOR APPROXIMATE LOCATIONS.

DRAWINGS APPROVAL

REVIEW FOR GENERAL COMPLIANCE WITH
COUNTY DOCUMENT PREPARATION STANDARDS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS
BY: *Mr. Donahue* DATE: *5/18/98*

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP
ENTITLED "FERDALE, WASHINGTON, 1952". SPOT
ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION
OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON
THE "POTLE SHORT PLAT" (AP# 90106163), RECORDS OF
WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING
N88°17'16"W.

NU COUNTRY ACRES/WHISPERING MEADOWS

DETENTION POND DETAILS

FOR
POTLE & SONS CONSTRUCTION, INC.

PTN. SW1/4, SEC.22, T39N, R2E, W.M.
WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 40'

DATE: 05/06/98

DRAWN BY: CMAS

REVISION:

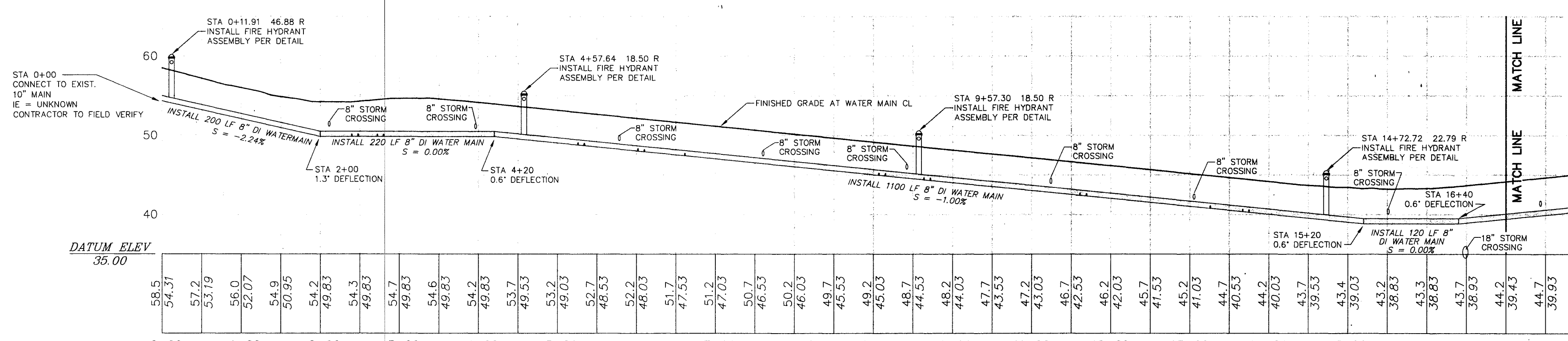
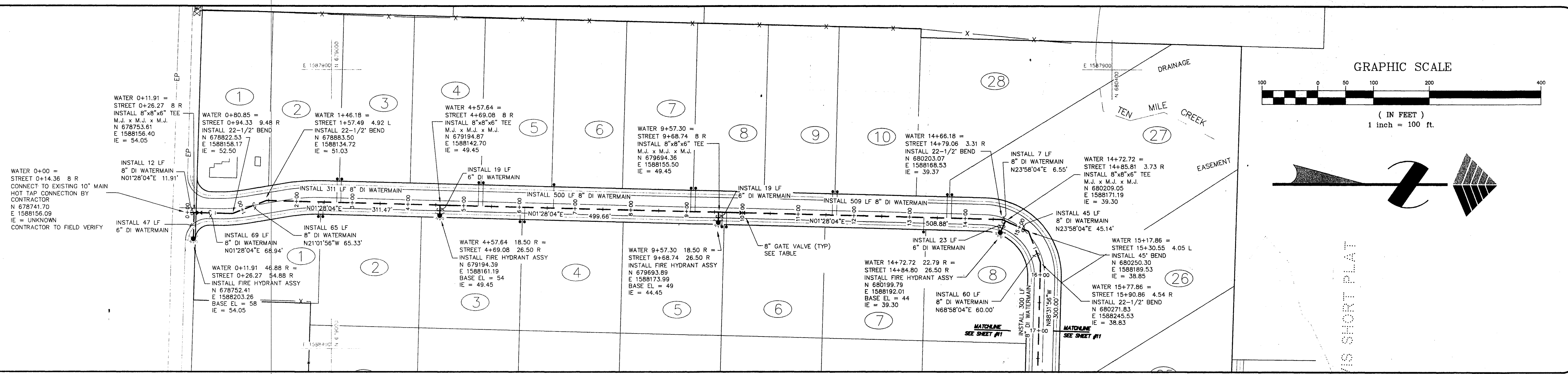
SHEET: 9 OF 13

JOB NUMBER: 97074

MILLENNIUM
Engineering Group, Inc.

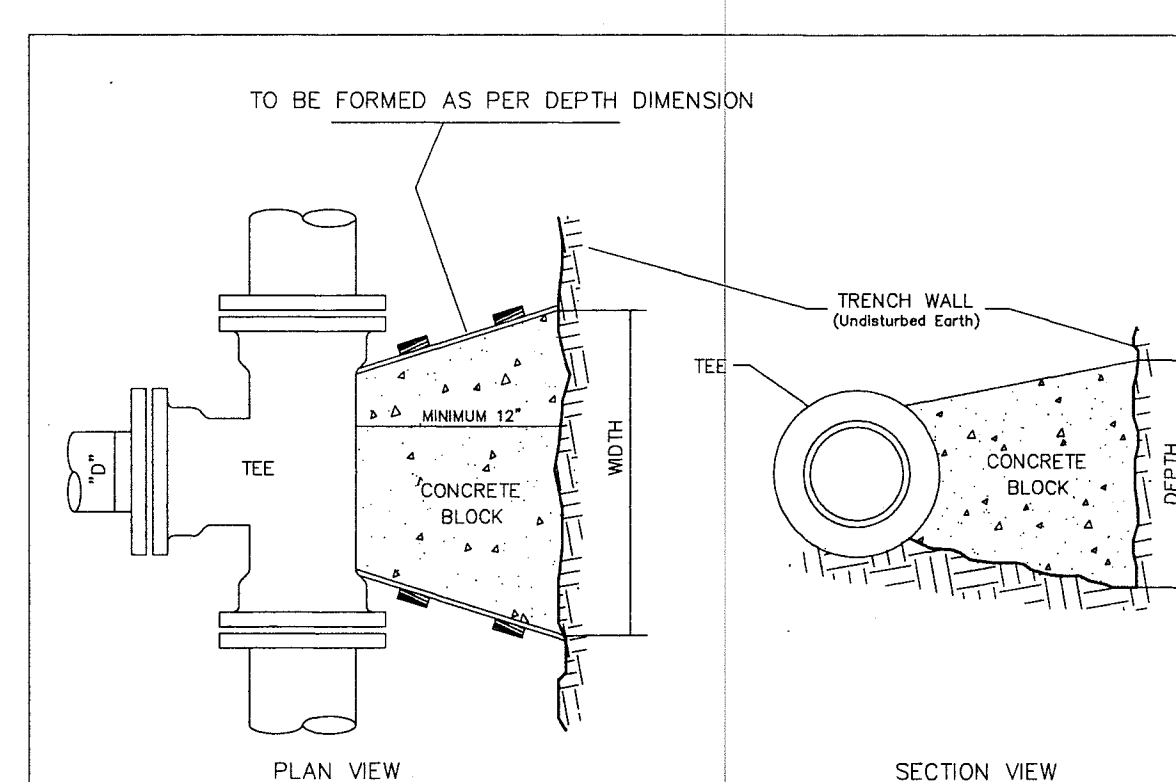
PO BOX 137, LYNDEN WA 98264 (360) 354-8141

00431.009 S/10/1h



WATER MAIN PROFILE STA 0+00 - 17+00

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

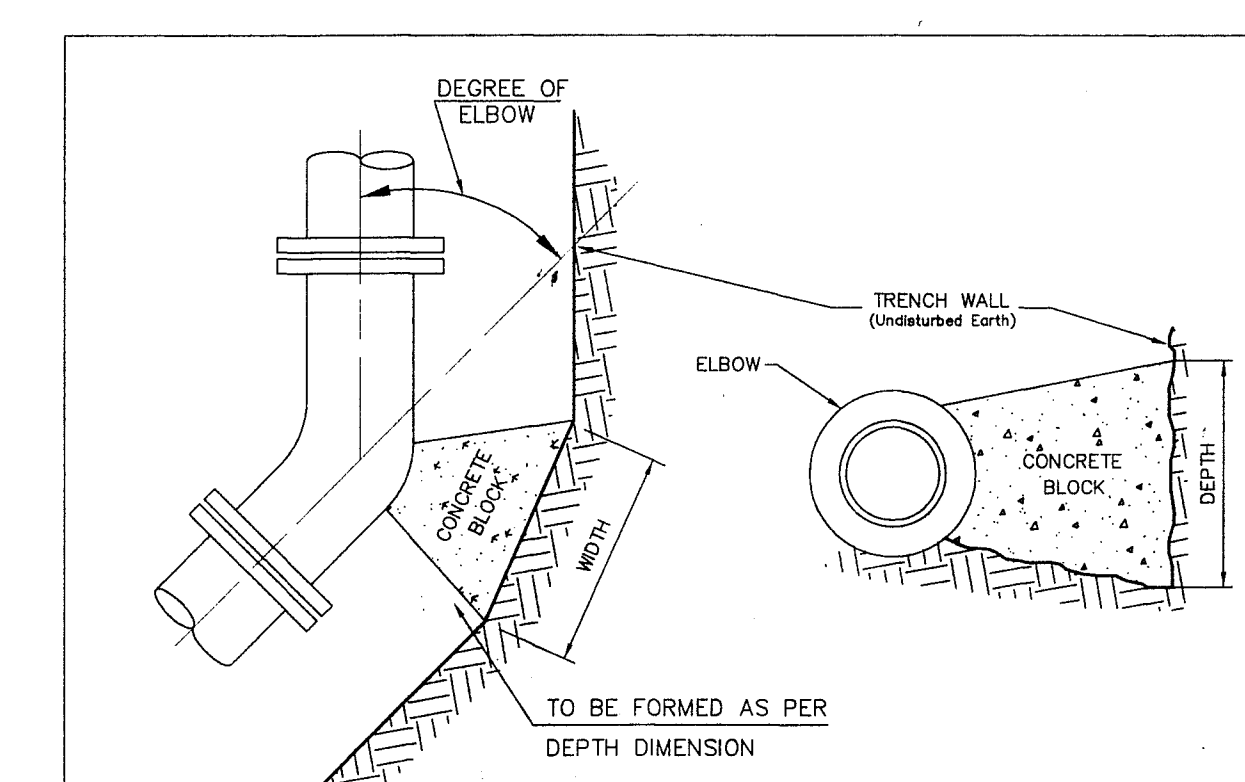


100 P.S.I. OPERATING PRESSURE

"D"	WIDTH	DEPTH
6"	1'-6"	1'-6"
8"	2'-0"	2'-0"
10"	2'-6"	2'-6"
12"	3'-0"	3'-0"
16"	4'-6"	3'-6"
20"	6'-0"	4'-0"
24"	7'-0"	5'-0"

NOTE: All Above Dimensions Apply To Stable Trench Walls. Under Variable Conditions Size Of Thrust Block Shall Be Determined By The PROJECT ENGINEER

THRUST BLOCKING TEES



100 P.S.I. OPERATING PRESSURE

SIZE	11-1/4"		22-1/2"		45"		90"	
	W	D	W	D	W	D	W	D
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-3"	1'-6"	
8"	1'-3"	1'-3"	1'-3"	1'-3"	1'-9"	3'-0"	2'-0"	
10"	1'-9"	1'-6"	1'-9"	1'-6"	2'-3"	3'-6"	2'-6"	
12"	2'-0"	1'-9"	2'-0"	1'-9"	2'-9"	4'-0"	3'-0"	
16"	2'-9"	2'-3"	2'-9"	2'-3"	4'-0"	6'-3"	3'-6"	
20"	3'-6"	2'-9"	3'-6"	2'-9"	4'-6"	8'-6"	4'-0"	
24"	4'-6"	3'-0"	4'-6"	3'-0"	5'-0"	9'-9"	5'-0"	

NOTE: All Above Dimensions Apply To Stable Trench Walls. Under Variable Conditions Size Of Thrust Block Shall Be Determined By The PROJECT ENGINEER

THRUST BLOCKING ELBOWS

WATER SERVICE LOCATIONS

LOT #	WATER STATION	OFFSET	DESCRIPTION
1			SERVICE ALREADY EXISTS
2	2+72.13	42.00 L	3/4" CU SERVICE
3	2+80.13	42.00 L	3/4" CU SERVICE
4	5+26.13	42.00 L	3/4" CU SERVICE
5	5+34.13	42.00 L	3/4" CU SERVICE
6	6+61.13	42.00 L	3/4" CU SERVICE
7	9+07.13	42.00 L	3/4" CU SERVICE
8	9+15.13	42.00 L	3/4" CU SERVICE
9	11+61.13	42.00 L	3/4" CU SERVICE
10	11+69.13	42.00 L	3/4" CU SERVICE

NORTHWEST COUNTRY ACRES

LOT #	WATER STATION	OFFSET	DESCRIPTION
1	2+39.89	26.00 R	3/4" CU SERVICE
2	2+47.89	26.00 R	3/4" CU SERVICE
3	6+01.89	26.00 R	3/4" CU SERVICE
4	6+09.89	26.00 R	3/4" CU SERVICE
5	9+63.89	26.00 R	3/4" CU SERVICE
6	9+71.89	26.00 R	3/4" CU SERVICE
7	13+25.89	26.00 R	3/4" CU SERVICE
8			NO SERVICE NECESSARY
9	21+15.85	26.00 R	3/4" CU SERVICE
10	21+23.85	26.00 R	3/4" CU SERVICE
11	24+77.85	26.00 R	3/4" CU SERVICE
12	24+85.85	26.00 R	3/4" CU SERVICE
13	28+39.85	26.00 R	3/4" CU SERVICE
14	28+47.85	26.00 R	3/4" CU SERVICE
15	30+28.85	26.00 R	3/4" CU SERVICE
16	29+96.35	42.00 L	3/4" CU SERVICE
17	29+88.35	42.00 L	3/4" CU SERVICE
18	26+11.35	42.00 L	3/4" CU SERVICE
19	26+03.35	42.00 L	3/4" CU SERVICE
20	22+77.35	42.00 L	3/4" CU SERVICE
21	22+69.35	42.00 L	3/4" CU SERVICE
22	21+02.35	42.00 L	3/4" CU SERVICE
23	19+28.15	31.76 L	3/4" CU SERVICE
24	19+26.15	31.21 L	3/4" CU SERVICE
25	17+99.99	42.00 L	3/4" CU SERVICE
26	17+91.99	42.00 L	3/4" CU SERVICE
27	13+74.85	42.00 L	3/4" CU SERVICE
28	13+66.85	42.00 L	3/4" CU SERVICE

GATE VALVE LOCATIONS

WATER STATION	DESCRIPTION
0+20	GATE VALVE
10+00	GATE VALVE
19+65	GATE VALVE
19+69.99 5 L	GATE VALVE
19+70	GATE VALVE
34+20	GATE VALVE

MILLENNIUM Engineering Group, Inc.

PO BOX 137, LYNDEN WA 98264 (360) 354-8141

LEGEND

- PROPOSED WATER MAIN
- 3/4" COPPER WATER SERVICE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING WATER MAIN
- EXISTING WATER VALVE
- WATER SERVICE IN PROFILE
- 49.7 PROFILE ELEV. @ FINISHED GRADE
- 44.93 PROFILE WATER MAIN IE

NOTES

- EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS OR CITY OF FERNDALE STANDARDS, WHICHEVER IS MORE STRINGENT.
- GATE VALVES SHALL BE INSTALLED AT THE BEGINNING AND END OF THE PROPOSED 8" WATERMAIN AND SPACED ALONG THE WATERMAIN AT APPROXIMATELY 800 FOOT INTERVALS.
- WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 7 OF THE CITY OF FERNDALE STANDARDS. CURB STOPS AND/OR METER BOXES WILL BE INSTALLED AS REQUIRED BY CITY OF FERNDALE PUBLIC WORKS.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL W-1 OF THE CITY OF FERNDALE STANDARDS.
- TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH DETAIL W-11 OF THE CITY OF FERNDALE STANDARDS.
- COPPER WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL W-5 OF THE CITY OF FERNDALE STANDARDS.

APPROVAL STAMPS

APPROVED: [Signature]

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERNDALE, WASHINGTON, 1952". SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTE SHORT PLAT" (AF# 80106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, CUBE BEARING BEING N881716"W.

NW COUNTRY ACRES/WHISPERING MEADOWS

WATER MAIN PLAN & PROFILE
STA 0+00 - 17+00

FOR
POTTE & SONS CONSTRUCTION, INC.

PTN. SW1/4, SEC.22, T39N, R2E, W.M.
WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 100'

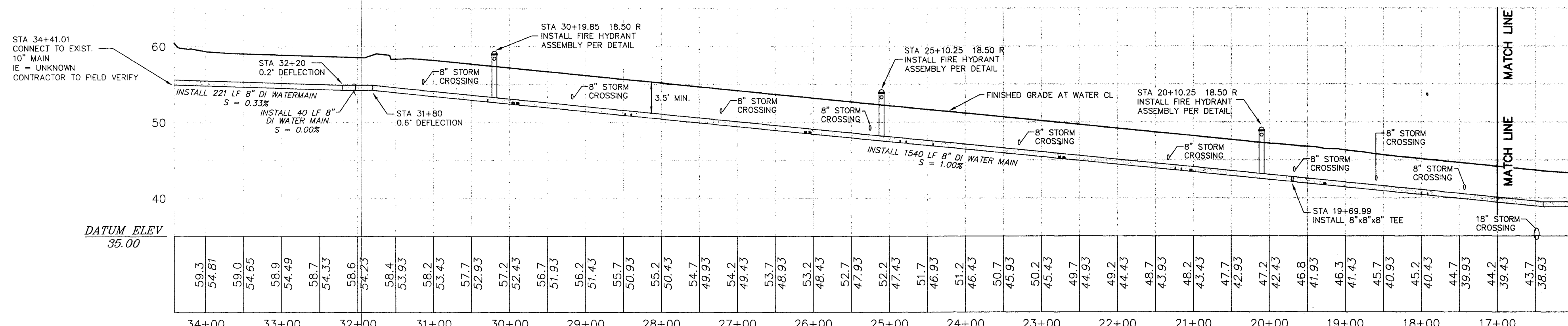
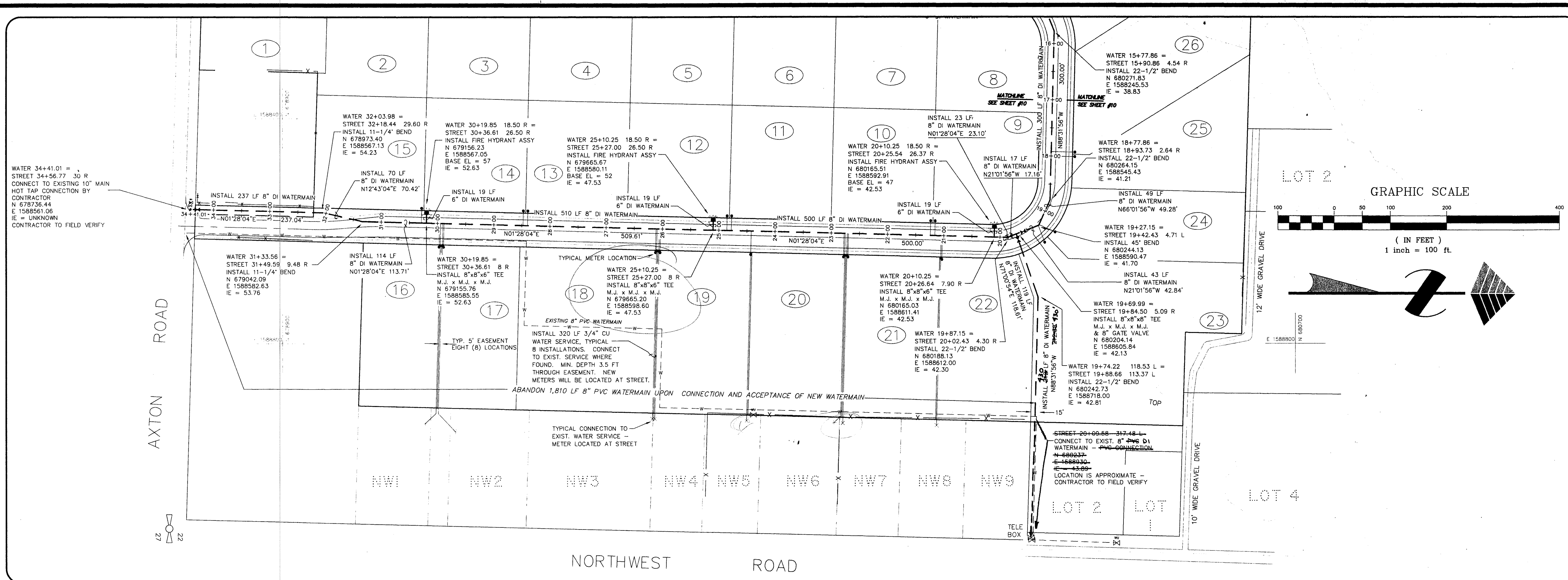
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DRAWN BY: CMAS

REVISION:

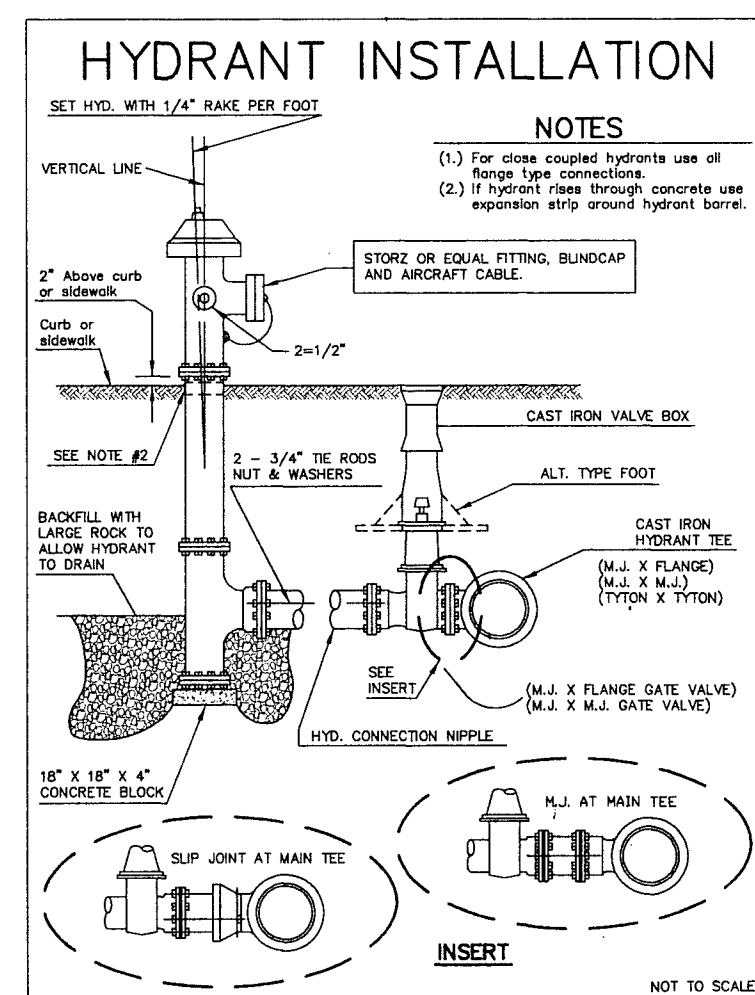
SHEET: 10 OF 13

JOB NUMBER: 97074



WATER MAIN PROFILE STA 17+00 - 34+41.01

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL



HYDRANT SPECIFICATIONS

- 1. Fire hydrants shall be for common Ferndale water works service and shall be in compliance with the latest edition of AWWA C502 "Standard for Dry-Barrel Fire Hydrants."
- 2. Each hydrant shall be 5-1/4" main valve opening with "0" ring seals and traffic-type break-away design.
- 3. Hydrant operating nut shall open counter-clockwise with the direction of open clearly marked at top of hydrant. Operating and cap nuts shall be pentagon in shape and the dimension shall be 1-1/4 inch point to flat (National Standard).
- 4. Hydrant shall be #1 mechanical joint (with accessories) or as specified.
- 5. Hydrant shall have two hose and one pump-out nozzle. Hydrants to be acceptable for a 3-1/2' foot depth of bury. Hydrant to have rust-proof automatic drain.
- 6. Hydrant to be capable of rotating through 360 degrees.
- 7. Thread Specifications: Hose nozzles to be 2-1/2" inside diameter with National Standard threads. Pump nozzle to be 1 1/2" hose fitting with threads as follows: 60 degree-6 threads per inch, pitch diameter-.4708", outside diameter-.4817".
- 8. Hydrant to be painted white with blue top and red tips. Do not paint Storz adaptor. Preservative Paint: White - 10-550, Blue - 443-131, Oriental Red - 10-14
- 9. In zones of the distribution system where the static pressure exceeds 150 psi, the hydrant shall be of the "G" type design.
- 10. Installation of any hydrant, other than a type currently in service on the city system, will be allowed only if all necessary repair tools and a training session for maintenance and repair is provided at no cost to the city.
- 11. Approved quote: Any hydrant that deviates from the specifications must be approved by the D.P.W. and/or the Water Superintendent a minimum of 30 days prior to its intended use.

NORTHWEST AVENUE FRONTAGE LOTS		
LOT #	WATERMAIN HOOKUP STATION	DESCRIPTION
NW1	29+94.35	3/4" CU SERVICE
NW2	29+90.35	3/4" CU SERVICE
NW3	26+09.35	3/4" CU SERVICE
NW4	26+05.35	3/4" CU SERVICE
NW5	24+42.35	3/4" CU SERVICE
NW6	22+75.35	3/4" CU SERVICE
NW7	22+71.35	3/4" CU SERVICE
NW8	21+04.35	3/4" CU SERVICE
NW9	SERVICE ALREADY EXISTS FROM NORTHWEST AVENUE - CONTRACTOR TO FIELD VERIFY	

* THE EIGHT LOTS ALONG NORTHWEST AVENUE (NW1-NW8) ARE ALREADY SERVICED BY THE 8" PVC MAIN RUNNING ACROSS NW COUNTRY ACRES LOTS #16-22 OR BY PRIVATE WELLS. THE PVC WATERMAIN WILL BE ABANDONED UPON COMPLETION OF THE NEW 8" DI WATERMAIN IN THE ROAD RIGHT-OF-WAY, WHERE WATER SERVICES, NOT WELLS, SERVE THE EXISTING LOTS. THE CONTRACTOR SHALL PROVIDE NEW WATER SERVICE FROM THE NEW 8" WATERMAIN TO THE EXISTING WATER SERVICE WHERE FOUND. PROPERTY PRESENTLY SERVICED BY WELLS MAY CHOOSE TO BE HOOKED UP TO THE NEW WATERMAIN. ALL COSTS FOR NEW HOOKUPS WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER CHOOSING A NEW HOOKUP.

NORTHWEST COUNTRY ACRES			
LOT #	WATER STATION	OFFSET	DESCRIPTION
1	2+39.89	26.00 R	3/4" CU SERVICE
2	2+47.89	26.00 R	3/4" CU SERVICE
3	6+01.89	26.00 R	3/4" CU SERVICE
4	6+09.89	26.00 R	3/4" CU SERVICE
5	9+63.89	26.00 R	3/4" CU SERVICE
6	9+71.89	26.00 R	3/4" CU SERVICE
7	13+25.89	26.00 R	3/4" CU SERVICE
8	NO SERVICE NECESSARY		
9	21+15.85	26.00 R	3/4" CU SERVICE
10	21+23.85	26.00 R	3/4" CU SERVICE
11	24+77.85	26.00 R	3/4" CU SERVICE
12	24+85.85	26.00 R	3/4" CU SERVICE
13	28+39.85	26.00 R	3/4" CU SERVICE
14	28+47.85	26.00 R	3/4" CU SERVICE
15	30+28.85	26.00 R	3/4" CU SERVICE
16	29+96.35	42.00 L	3/4" CU SERVICE
17	29+88.35	42.00 L	3/4" CU SERVICE
18	26+11.35	42.00 L	3/4" CU SERVICE
19	26+03.35	42.00 L	3/4" CU SERVICE
20	22+77.35	42.00 L	3/4" CU SERVICE
21	22+69.35	42.00 L	3/4" CU SERVICE
22	21+02.35	42.00 L	3/4" CU SERVICE
23	19+28.15	31.76 L	3/4" CU SERVICE
24	19+26.15	31.21 L	3/4" CU SERVICE
25	17+99.99	42.00 L	3/4" CU SERVICE
26	17+91.99	42.00 L	3/4" CU SERVICE
27	13+74.85	42.00 L	3/4" CU SERVICE
28	13+66.85	42.00 L	3/4" CU SERVICE

GATE VALVE LOCATIONS

VALVES SHALL BE RESILIENT SEAT TYPE AWWA C509.

WATER STATION	DESCRIPTION
0+20	GATE VALVE
10+00	GATE VALVE
19+65	GATE VALVE
19+69.99 5 L	GATE VALVE
19+70	GATE VALVE
34+20	GATE VALVE

DATUM

MEAN SEA LEVEL PER U.S.G.S. 7-1/2' QUADRANGLE MAP ENTITLED "FERNDALE, WASHINGTON, 1952". SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS

SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTE SHORT PLAT" (AF# 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16"W.

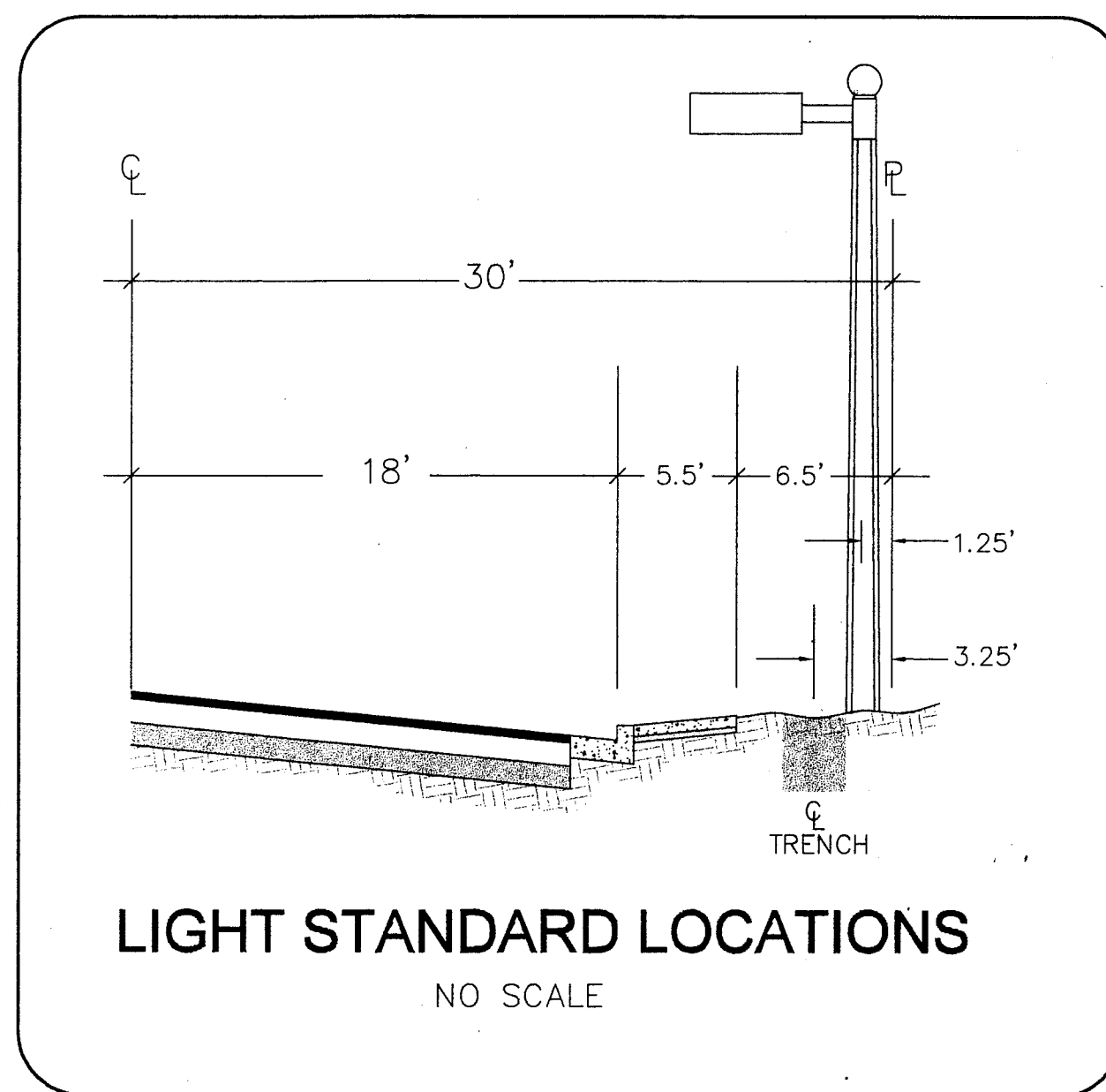
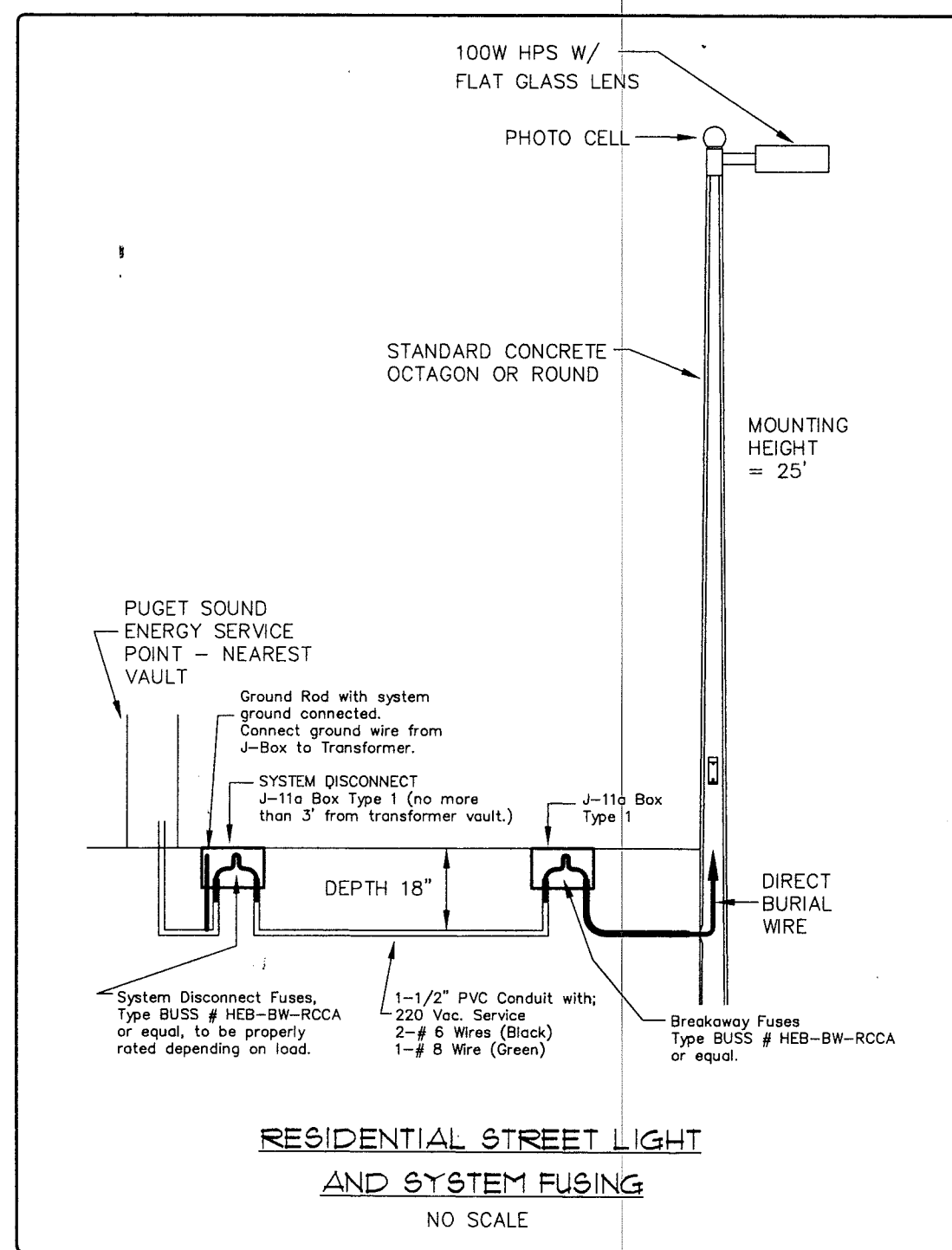
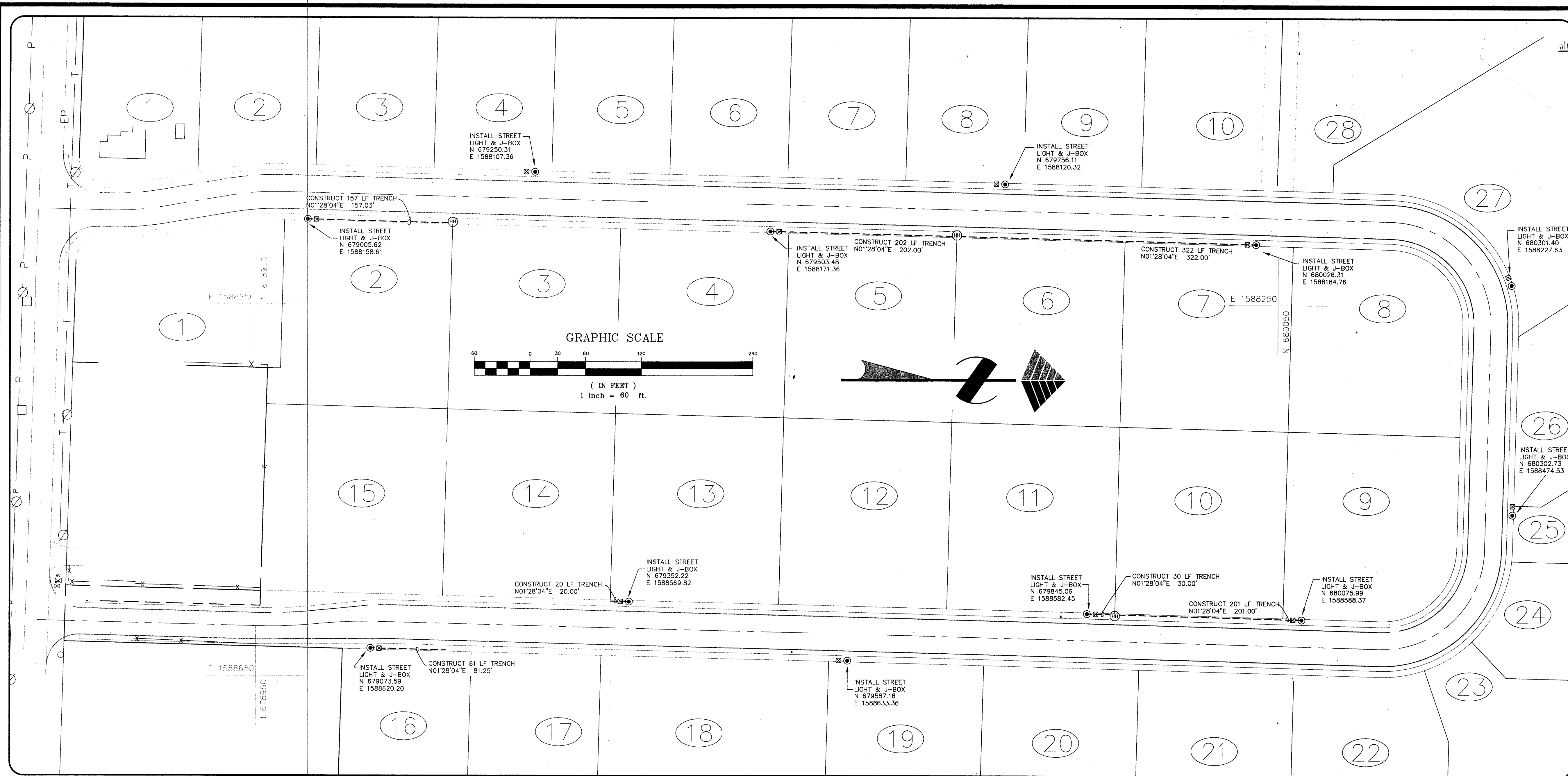
NW COUNTRY ACRES/WHISPERING MEADOWS

WATER MAIN PLAN & PROFILE
STA 17+00 - 34+41.01

FOR POTTLE & SONS CONSTRUCTION, INC.	SHEET: 11 OF 13
PTN. SW1/4, SEC.22, T39N, R2E, W.M. WHATCOM COUNTY WASHINGTON	JOB NUMBER: 97074

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- NOTES**
1. PVC CONDUIT (1-1/2") FOR THE LIGHTING SYSTEM WILL BE INSTALLED IN THE COMMON UTILITY TRENCH. SEE SHEET 13 OF 13 FOR COMMON UTILITY TRENCHING GEOMETRY. TRENCHING GEOMETRY SHOWN ON THIS PLAN IS IN ADDITION TO THE COMMON UTILITY TRENCH AND IS FOR LIGHTING CONDUIT ONLY. THE LIGHTING TRENCHING IS TAKEN FROM THE NEAREST COMMON UTILITY TRENCH END.
 2. NORTHING AND EASTING LOCATIONS ARE TO CENTER OF LIGHT STANDARD.

LEGEND

- Ø EXISTING POWER POLE
- T— EXISTING TELEPHONE LINE
- P— EXISTING POWER LINE
- PROPOSED ADDITIONAL LIGHTING TRENCH
- ⊙ LIGHT STANDARD & J-BOX
- HH PUGET SOUND ENERGY HAND-HOLD

NOTES

1. EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS OR CITY OF FERDALE STANDARDS, WHICHEVER IS MORE STRINGENT.
3. UTILITY TRENCHING LAYOUT IN ACCORDANCE WITH PUGET SOUND ENERGY'S DRAFT SKETCH DATED 3/12/98.

APPROVAL STAMPS

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERDALE, WASHINGTON, 1952". SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTE SHORT PLAT" (AFF# 901106185), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16"W.

FOR POTTLE & SONS CONSTRUCTION, INC.

PN. SW1/4, SEC.22, T39N, R2E, W.M.
WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 60'

DATE: 05/06/98

DRAWN BY: CMAS

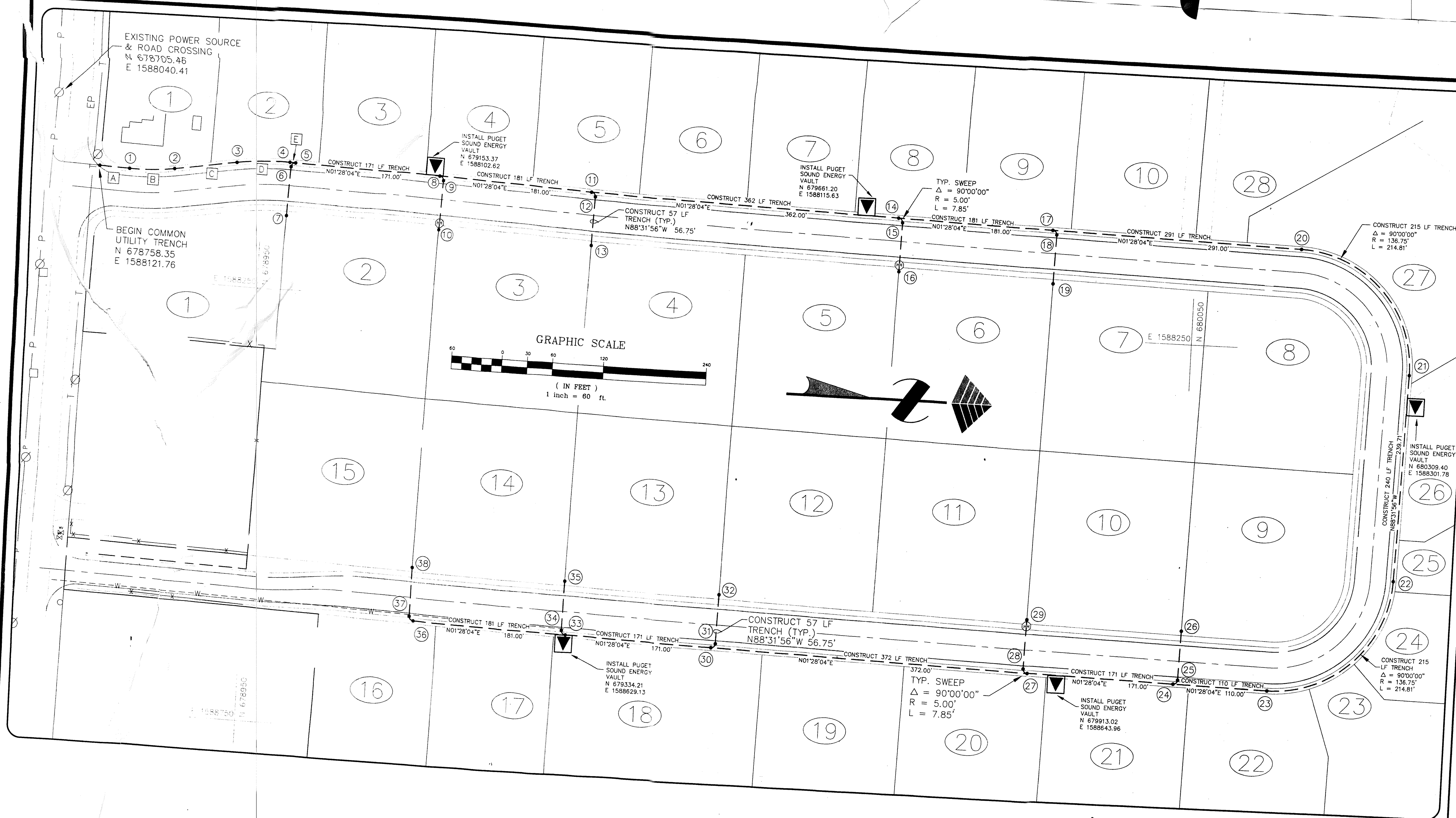
REVISID:

SHEET: 12 OF 13

JOB NUMBER: 97074

MILLENNIUM
Engineering Group, Inc.
PO BOX 137, LYNDEN WA 98264 (360) 354-8141

00431.012 S/10/1200



COMMON UTILITY TRENCH GEOMETRY

POINT	NORTHING	EASTING	DESCRIPTION
1	N 678793.22	E 1588122.65	PC
2	N 678845.47	E 1588118.97	PT
3	N 678917.71	E 1588106.84	PC
4	N 678980.19	E 1588102.44	PT
5	N 678987.07	E 1588102.61	PC
6	N 678981.95	E 1588107.46	PT
7	N 678980.49	E 1588164.21	CROSSING STUB OUT
8	N 679158.02	E 1588106.99	PC
9	N 679162.89	E 1588112.12	PT
10	N 679161.43	E 1588168.85	CROSSING STUB OUT
11	N 679338.96	E 1588111.63	PC
12	N 679343.83	E 1588116.76	PT
13	N 679342.37	E 1588173.49	CROSSING STUB OUT
14	N 679700.84	E 1588120.90	PC
15	N 679705.71	E 1588126.03	PT
16	N 679704.25	E 1588182.76	CROSSING STUB OUT
17	N 679881.78	E 1588125.54	PC
18	N 679886.65	E 1588130.66	PT
19	N 679885.20	E 1588187.40	CROSSING STUB OUT
20	N 680172.68	E 1588132.99	PC
21	N 680305.89	E 1588273.20	PT
22	N 680299.75	E 1588512.83	PC
23	N 680159.54	E 1588646.03	PT
24	N 680049.57	E 1588643.21	PC
25	N 680054.70	E 1588638.34	PT
26	N 680056.15	E 1588581.61	CROSSING STUB OUT
27	N 679878.63	E 1588638.83	PC
28	N 679873.76	E 1588633.70	PT
29	N 679875.21	E 1588576.97	CROSSING STUB OUT
30	N 679506.75	E 1588629.30	PC
31	N 679511.88	E 1588624.43	PT
32	N 679513.33	E 1588567.70	CROSSING STUB OUT
33	N 679335.81	E 1588624.92	PC
34	N 679330.94	E 1588619.80	PT
35	N 679332.39	E 1588563.06	CROSSING STUB OUT
36	N 679154.87	E 1588620.29	PC
37	N 679150.00	E 1588615.16	PT
38	N 679151.45	E 1588558.43	CROSSING STUB OUT

Segment	Bearing	Length (ft)
A	N01°28'04"E	34.89'
B	Δ = 11°00'00"	R = 273.25' L = 52.46'
C	N08°31'56"W	73.25'
D	Δ = 11°00'00"	R = 326.75' L = 62.73'
E	N01°28'04"E	6.89'

- LEGEND**
- ⊙ EXISTING POWER POLE
 - T— EXISTING TELEPHONE LINE
 - P— EXISTING POWER LINE
 - - - - - PROPOSED COMMON UTILITY TRENCH
 - ⑥ COMMON UTILITY TRENCH POINT
 - [D] COMMON UTILITY TRENCH SEGMENT
 - ▼ POWER VAULT

- NOTES**
- EXISTING FIELD DATA PER LARRY STEELE & ASSOCIATES SURVEYS PERFORMED 1993, 1995, AND 1997.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WHATCOM COUNTY STANDARDS OR CITY OF FERNDALE STANDARDS, WHICHEVER IS MORE STRINGENT.
 - UTILITY TRENCHING LAYOUT IN ACCORDANCE WITH PUGET SOUND ENERGY'S DRAFT SKETCH DATED 3/12/98.

- NOTES**
- COMMON UTILITY TRENCH WILL BE CONSTRUCTED BY THE CONTRACTOR.
 - THE COMMON UTILITY TRENCH WILL BE 48" WIDE AND 30" DEEP, WITH 6" OF BEDDING IN THE BASE. EACH OF THE PRIVATE UTILITIES WILL INSTALL CONDUITS AND/OR WIRING TO THEIR STANDARDS AND SPECIFICATIONS. THE CONTRACTOR WILL BACKFILL THE TRENCH UPON COMPLETION OF THE PRIVATE UTILITIES' WORK.
 - NORTHING AND EASTING LOCATIONS ARE TO CENTER OF VAULTS.
 - THE COMMON UTILITY TRENCH WILL BE CONSTRUCTED BEHIND THE SIDEWALK AND BE LOCATED ENTIRELY WITHIN THE 60 FOOT ROAD RIGHT-OF-WAY.

DATUM
MEAN SEA LEVEL PER U.S.G.S. 7-1/2" QUADRANGLE MAP ENTITLED "FERNDALE, WASHINGTON, 1952". SPOT ELEVATION OF 66' MEAN SEA LEVEL AT THE INTERSECTION OF AXTON AND NORTHWEST ROADS.

BASIS OF BEARINGS
SOUTH LINE SECTION 22, T39N, R2E, W.M., AS SHOWN ON THE "POTTE SHORT PLAT" (AF# 901106165), RECORDS OF WHATCOM COUNTY, WASHINGTON, SAID BEARING BEING N88°17'16"W.

APPROVAL STAMPS

FOR POTTLE & SONS CONSTRUCTION, INC.

SCALE: 1" = 60'
DATE: 05/06/98
DRAWN BY: CMAS
REVISION:
SHEET: 13 OF 13
JOB NUMBER: 97074

MILLENNIUM
Engineering Group, Inc.
PO BOX 137, LYNDEN WA 98264 (360) 354-8141

C:\proj\ec\151987\07074\cd\dwg\11 Thu May 07 12:24:45 1998 chadmas