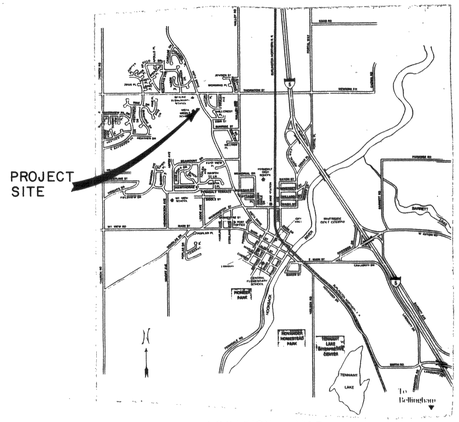
124375

VISTA DRIVE - FERNDALE TERRACE TO THORNTON ROAD

CONTRACT DRAWINGS FOR:
ROADWAY IMPROVEMENTS
T.I.B. NO. 9-W-985 (001)
WHATCOM COUNTY, WASHINGTON

OWNER · CITY OF FERNDALE
CONTACT PERSON · JOHN F. ELEY, PUBLIC WORKS DIRECTOR
CONSULTING ENGINEERS · WEDEN ENGINEERING, INC.
R.Z.A. GEOTECHNICAL CONSULTANTS



LOCATION MAP

DRAWING INDEX

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1	TITLE SHEET, VICINITY AND LOCATION MAPS
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3	PLAN AND PROFILE 16+00 TO 21+50
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5	PLAN AND PROFILE 27+00 TO 32+50
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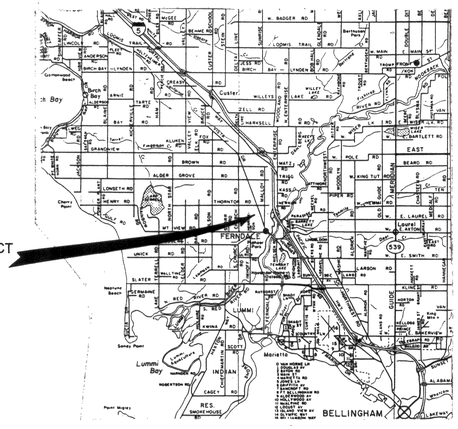
11-19	CROSS-SECTIONS



VICINITY MAP

LEGEND

EXISTING:		PROPOSED:
———	RIGHT OF WAY LINE	
———	ROAD CENTERLINE WITH 100 FOOT STATION INDICATED	
~~	EXIST. GROUND LINE AT ROADWAY CENTERLINE	
-SD-	STORM DRAIN WITH SIZE AND MANHOLE	——SD——
- - -	GAS LINE (NO SIZES SHOWN)	
- W -	WATERLINE WITH SIZE AND VALVE	
⟷	UTILITY POLES W/ GUY WIRES	
⟷	UTILITY POLES TO BE RELOCATED BY OTHERS	
	CURB & GUTTER W/ SIDEWALK	═══
	CURTAIN DRAIN	---D---
	EDGE OF ASPHALT	
□	CATCH BASIN	■
○	MANHOLE	
⊖	WATER VALVE	⧓
⊖	FIRE HYDRANT	⧓
⊠	WATER METER BOX	⊠
□	MAILBOX	
	DRIVEWAY	
>	CULVERT	>
	DITCH	
2/9	DETAIL NUMBER / SHEET NUMBER WHERE FOUND	

GENERAL NOTES

1. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION.
2. ROADWAY STATIONS ARE USED FOR LAYOUT OF THE WORK WHERE PRACTICAL. THE PROPOSED FINISHED GRADE AND EXISTING GROUND LINE AT ROADWAY CENTERLINE ARE SHOWN ON THE PROFILE, UNLESS INDICATED OTHERWISE.
3. ALL WORK SHALL CONFORM TO THE STANDARD PLANS AND SPECIFICATIONS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), AND WHATCOM COUNTY DEVELOPMENT STANDARDS UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
4. ALL SLOPE AND CONSTRUCTION EASEMENTS SHOWN WILL BE OBTAINED BY THE CITY OF FERNDALE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, IRRIGATION, AND STREET LIGHTING.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES (SILT FENCE, STRAW BALE DAMS, SILT PONDS, ETC., AS DIRECTED BY THE ENGINEER) THROUGHOUT THE DURATION OF THE PROJECT.
7. PAY LIMITS FOR EXCAVATION AND EMBANKMENT (FILL) WILL BE DETERMINED FROM CROSS SECTIONS TAKEN FOLLOWING THE COMPLETION OF THESE BID ITEMS.
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO PROJECT SIGNS, ONE AT THE BEGINNING OF THE PROJECT AND ONE AT THE END OF THE PROJECT. THESE SIGNS SHALL BE 4 FEET x 8 FEET MOUNTED ON TWO 4 x 6 INCH POSTS TO A MAXIMUM HEIGHT OF 12 FEET. SUBMIT SHOP DRAWINGS AS SPECIFIED PRIOR TO FABRICATION.

RECORD DRAWINGS

NO.	REVISION	BY	DATE

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

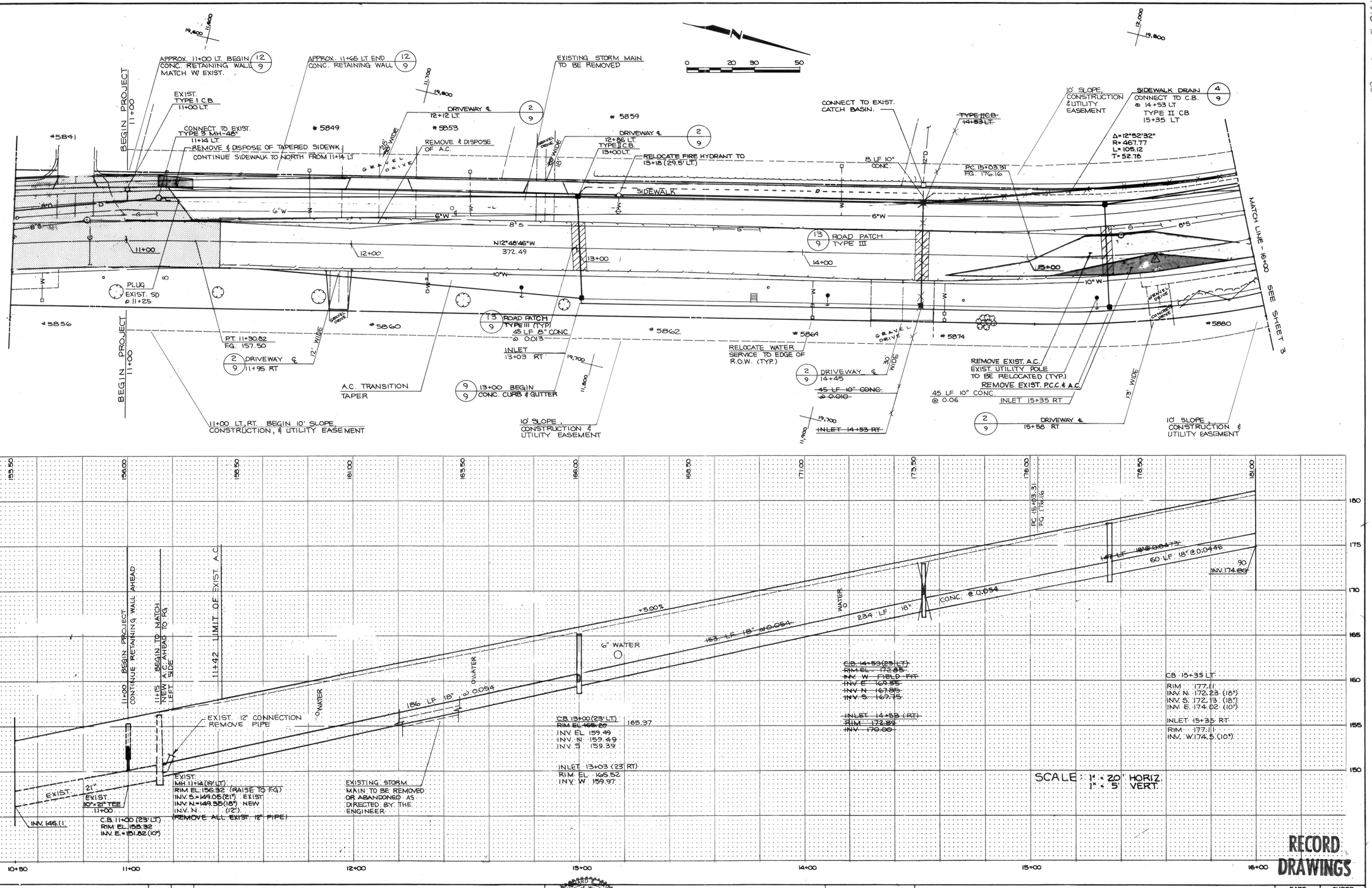
Registered Professional Engineer, State of Washington, 21680, Registered Land Surveyor

DESIGNED BY: J.L.W.
DRAWN BY: T.E.P.
CHECKED BY:

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985 (001)
TITLE SHEET

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061
SHEET 1 OF 19

21 90 3.2 100.3810C



RECORD DRAWINGS

WEDEN ENGINEERING
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

NO.	REVISION	BY	DATE

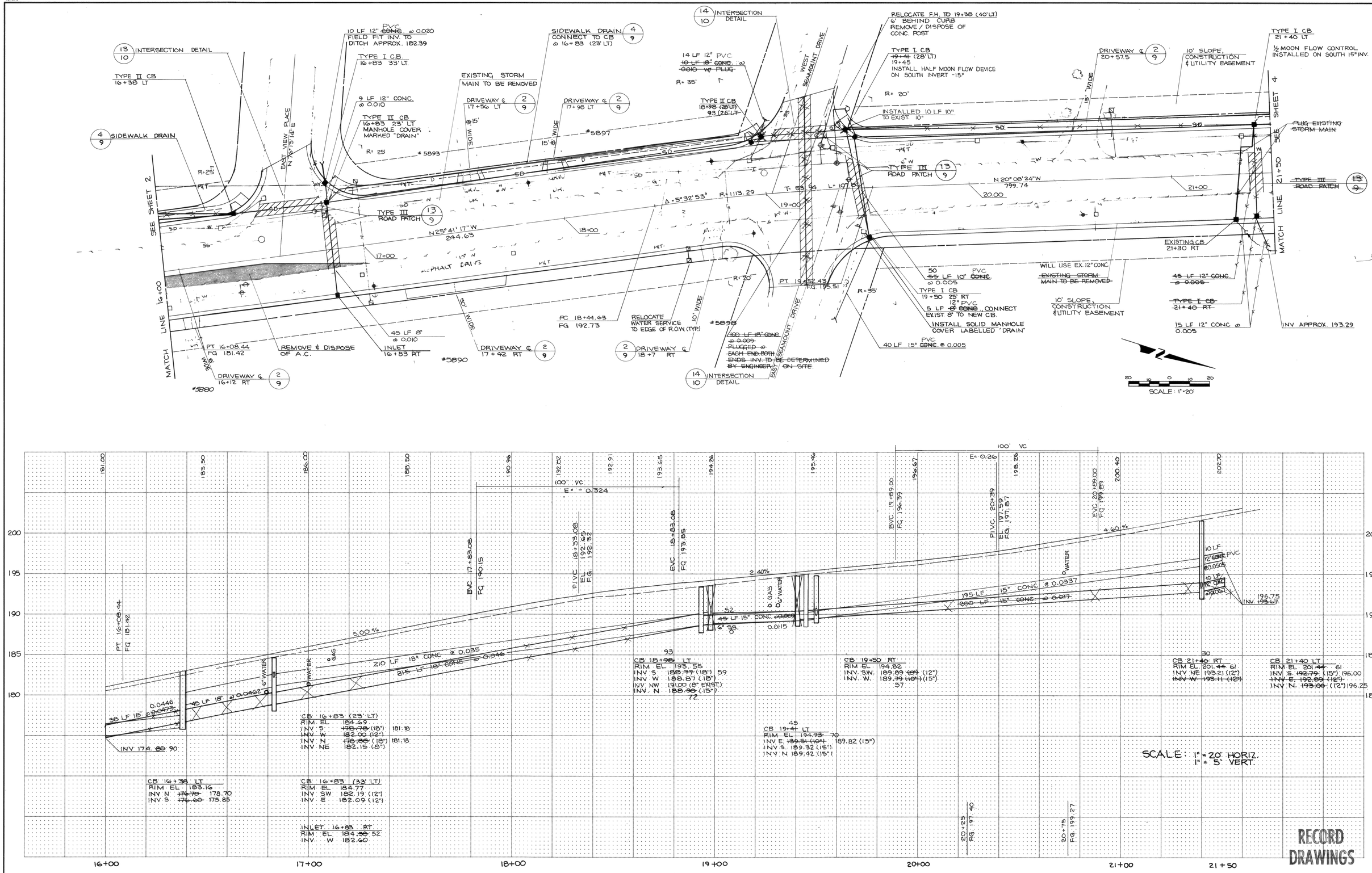
J.L.W. DESIGNED BY
T.E.P. DRAWN BY
K.S., C.O.L. CHECKED BY

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985 (001)
PLAN AND PROFILE 11+00 TO 16+00

DATE MAY '91
SCALE AS SHOWN
JOB NO. 90061
SHEET 2 OF 19

SR 857

124375



NO.	REVISION	BY	DATE

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

DESIGNED BY: JLW
DRAWN BY: TEP
CHECKED BY: COL

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985(001)
PLAN AND PROFILE 16+00 TO 21+50

DATE MAY '91
SCALE AS SHOWN
JOB NO. 90061
SHEET 3 OF 19

124375

22+14 LT DRIVEWAY ℄ (2/9)

POWER VAULT TO BE RELOCATED BY OTHERS (TYP.)

SIDEWALK DRAIN CONNECT TO CB @ 21+40 (4/9)

TYPE I CB 23+40

SIDEWALK DRAIN CONNECT TO CB @ 23+40 LT (4/9)

24+60 LT DRIVEWAY (2/9)

6" TEE, 6" G.V. 6" CAP 14 LF 6" D.I. W/TB

INTERSECTION DETAIL (16/10)

26+57 LT DRIVEWAY (2/9)

20' WIDE

10' SLOPE, CONSTRUCTION & UTILITY EASEMENT

EXIST STORM MAIN TO BE REMOVED

REMOVE & DISPOSE OF AC

RELOCATE F.H. TO 25+39, 51 LT

25+20 CONNECT TO EXIST 6" D.I. WATER INSTALL 6" TEE, 6" G.V. 42 LF 6" D.I., 6" CAP W/TB. 42" MIN. COVER

TYPE I CB 25+40, 34' LT 10 LF 8" CONC @ 0.050

TYPE I CB 24+50

TYPE I CB MH SOLID COVER 25+40, LT MARKED "DRAIN"

REMOVE & DISPOSE OF A.C.

#5919

#5937

#5959

#5904

#5950

23+30 LT DRIVEWAY ℄

15' WIDE

N89°44'10"E 188.48' FUTURE JONES DR.

RET. WALL

GRAVEL DRIVE

ASPHALT DRIVE

TYPE III ROAD PATCH (13/9)

N 20°08'24" W 799.74

22+00 23+00 24+00 25+00 26+00

SHEET 3 SEE SHEET 21+50 MATCH LINE

SHEET 5 SEE SHEET 27+00 MATCH LINE

PLUG EXISTING STORM MAIN

10' SLOPE, CONSTRUCTION & UTILITY EASEMENT

45 LF 8" CONC @ 0.010

INLET 23+40 RT

REMOVE & DISPOSE OF A.C.

(2/9) DRIVEWAY ℄ 24+94 RT

25' WIDE

45 LF 8" CONC @ 0.010

INLET 25+40 RT

(2/9) DRIVEWAY ℄ 26+18 RT

20' WIDE

PLANTER

SCALE: 1"=20'

240 235 230 225 220 215 210 205 200 195

202.70 205.00 207.51 210.02 212.55 215.04 217.55 220.06 222.57 225.08 227.59 230.09

GRADE BREAK 22+00

GRADE BREAK 26+00

4.60 %

5.02 %

5.01 %

190 LF 12" PVC @ 0.0505

190 LF 12" CONC @ 0.067

INV. 196.75

INV. 193.67

110 LF 12" PVC @ 0.044

6" WATER

90 LF 12" PVC @ 0.044

160 LF 12" PVC @ 0.0487

INV. 223.19

WATER

GAS

CB 23+40 LT
RIM EL. 211.23
INV E 206.60 (8")
INV N 206.44 (12")
INV S 206.34 (12")

INLET 23+40 RT
RIM EL. 211.23
INV W 207.05

CB 24+50 LT
RIM 216.75
INV N 211.35
INV S 211.28

CB 25+40 LT
RIM EL. 221.61
INV E 215.55 (8")
INV N 215.40 (12")
INV S 215.30 (12")

INLET 25+40 RT
RIM EL. 221.27
INV W 216.00 (8")

CB 25+40, 34 LT
RIM 221.47
INV E 216.05 (8")

SCALE: 1" = 20' HORIZ
1" = 5' VERT.

21+50 22+00 23+00 24+00 25+00 26+00 27+00

RECORD DRAWINGS

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BELLINGHAM, WASHINGTON 671-8200, 354-3723

DESIGNED BY: J.L.W.
DRAWN BY: T.E.P.
CHECKED BY:

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985 (001)
PLAN AND PROFILE 21+50 TO 27+00

DATE MAY '91 | SCALE AS SHOWN | JOB NO. 90061 | SHEET 4 OF 19

134378

27+11 LT DRIVEWAY ℄ (2/9)

27+82 LT DRIVEWAY ℄ (2/9)

REMOVE & DISPOSE OF A.C.

TYPE I CB 27+50 LT

10' SLOPE, CONSTRUCTION & UTILITY EASEMENT

CONNECT EXIST. 3" DRAIN TO SIDEWALK DRAIN 29+18, LT

29+82 LT DRIVEWAY ℄ (2/9)

~~TYPE I CB W/ SOLID COVER 31+47 LT~~

~~CONNECT TO EXIST 8" CONC.~~

INTERSECTION DETAIL 31+66 DIRT ROAD (15/10)

RELOCATE FH ASSEMBLY W/ G.V. 31+95 43' LT
INSTALL 8"X10" TEE, 8" TEE, 8" G.V.
30 LF 8" D.I., 8" CAP

INLET 1

8 LF 8" PVC

R=35'

#5987

TYPE I CB 32+05

SEE SHEET 6

32+50

MATCH LINE

SEE SHEET 4

27+00

25' WIDE

35' WIDE

40' WIDE

#5959

#5973

#5979

#2165 SUNRISE CT.

#2166 SUNRISE CT

SUNRISE STREET

RET. WALL

ASPHALT

ASPHALT CONCRETE

PLANTER

SIDEWALK

CURB & GUTTER

EXISTING STORM MAIN TO BE REMOVED

TYPE I CB 29+60 LT

TYPE I CB 31+25 LT

PC 31+13.24
BEGIN LEFT LANES
FULL SUPER +1%

5 LF 8" PVC
R=35'

INLET 1

ASPHALT W/ GATE VALVE

PRV MANHOLE

TYPE III ROAD PATCH (13/9)

N 20°08'24" W
799.74

28+00

29+00

TYPE III ROAD PATCH (13/9)

30+00

N 16°52'39" W
218.72

31+00

TYPE III ROAD PATCH

64 LF 10" D.I.

12" CULVERT

PLUG EXISTING STORM MAIN

EXISTING STORM MAIN TO BE REMOVED

℄ CURVE DATA
Δ = 3°15'45"
R = 2500.00
L = 142.35

PC 27+52.17

45 LF 8" CONC. ø 0.005

INLET 27+50 RT

10' SLOPE, CONSTRUCTION & UTILITY EASEMENT

PT 28+94.52

2 (9) DRIVEWAY ℄ 29+01 RT.

45 LF 8" CONC. ø 0.010

INLET 29+60 RT

29+77.21 ANGLE POINT

29+87.27 BEGIN LT & RT LANES TRANSITION FOR SUPER AHEAD

31+00 BEGIN FULL SUPER 3% RIGHT LANES

R=20'

R=30'

15/10 INTERSECTION DETAIL

50 LF 8" CONC ø 0.010

TYPE I CB 31+65 RT

32+00 END FULL SUPER +3% RIGHT LANES

℄ CURVE DATA
Δ = 21°42'42"
R = 409.22
T = 78.48
L = 155.07

SCHEDULE OF T.O.C. ELEVATIONS FOR SUPERELEVATION SECTIONS

STATION	TOC LEFT	TOC RIGHT
29+87.27	244.55	244.55
30+00	245.15	245.07
30+25	246.54	246.27
30+50	247.93	247.48
30+75	249.31	248.67
31+00	250.70	249.88
31+25	252.03	251.13
31+50	253.28	252.38
31+75	254.53	253.63
32+00	255.79	254.89
32+25	257.04	256.18
32+50	258.30	257.48

50 LF 12" CONC ø 0.0487

INV 223.19

CB 27+50 LT
RIM EL 231.80
INV E 225.69 (8")
INV S 225.63 (12")
INV N 225.73 (12")

INLET 27+50 RT
RIM EL 231.80
INV W 226.12 (8")

210 LF 12" CONC ø 0.0502

CB 29+90 LT
RIM EL 242.32
INV E 236.53 (8")
INV S 236.27
INV N 236.37

INLET 29+90 RT
RIM EL 242.32
INV W 236.98

165 LF 12" CONC ø 0.0052

CB 31+25 LT
RIM EL 254.35
INV S 244.95
INV N 245.00

~~CB 31+47 LT~~
~~RIM EL 252.54~~
~~INV NE 246.51 (8")~~
~~INV NW 248.60 (EXIST 8")~~
~~INV S 246.14 (12")~~
~~INV N 246.24 (12")~~

PC 31+13.24
EL 250.79

22 LF 12" ø 0.052

64 LF

10" PVC

105 LF

49 LF 12" PVC ø 0.046

6" WATER

INV 251.10

CB 32+05 LT

CB 31+65 RT
RIM EL 251.82
INV NW 247.01

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

RECORD DRAWINGS

NO.	REVISION	BY	DATE
1	STORM ADDITION	COL	8/4/92

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

DESIGNED BY: J.L.W.
DRAWN BY: T.E.P.
CHECKED BY:

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985(001)
PLAN AND PROFILE 27+00 TO 32+50

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061
SHEET 5 OF 19

134375

10' SLOPE CONSTRUCTION & UTILITY EASEMENT

32+68 DRIVEWAY ℄ (2/9)

PT 32+68.31 END FULL SUPER 1% LEFT LANES

33+24 DRIVEWAY ℄ (2/9)

EXISTING STORM MAIN TO BE REMOVED

34+80.50 DRIVEWAY ℄ (2/9)

TYPE I CB 36+05

TYPE I CB 37+78 CONNECT EXIST. 12" CONC. TO NW APPROX 280.42

(2/9) 37+60 DRIVEWAY ℄

RELOCATE FH TO 37+85, 44' LT.

MATCH LINE 38+00

SEE SHEET 5

MATCH LINE 32+50

30' WIDE

32+99 LT BEGIN ADD. R.O.W. TAPER TYPE I CB 33+00 LT

SIDEWALK DRAIN (4/9) CONNECT TO CB @ 33+00 LT

34+11.96 END LEFT LANES TRANSITION (-2% AHEAD)

PC 34+87.54 8.6° LT

34+95 BEGIN 75' R.O.W.

ADDITIONAL R.O.W TAPER

SIDEWALK DRAIN CONNECT TO CB @ 34+00 LT

25' WIDE

℄ ROADWAY CURVE DATA
Δ = 43° 23' 36"
R = 300.00
T = 119.36
L = 227.21

SIDEWALK DRAIN CONNECT @ 35+10 LT

50 LF 10" CONC @ 0.040

CB TYPE I 37+00

SIDEWALK DRAIN (2/9) CONNECT @ 36+05

2' WIDE ASPHALT DITCH

TYPE III ROAD PATCH (13/9)

SEE SHEET 7

TYPE I CB 35+18 LT 15

#6041

(13/9) TYPE III ROAD PATCH

N07° 18' 25" E 196.15

N04° 50' 02" E 219.21

33+00

34+00

35+00

36+00

37+00

℄ PROPOSED ROAD

℄ EXISTING RIGHT OF WAY

N 38° 33' 39" W 288.41

R=233.48

CONC. PLUG EXISTING STORM MAIN

8 LF 10" CONC @ 0.30 INV 283.50 RIP RAP SUMP

TYPE I CB 37+78 RT

45 LF 10" CONC @ 0.050

PT 37+23.24

#6033 HILLCREST PL.

PT 37+23.24 12' LT

PT 32+86.96

45 LF 8" CONC. @ 0.030

#6014

PC 34+83.11

(17/10) INTERSECTION DETAIL

R=25'

INLET 34+00

℄ RIGHT OF WAY CURVE DATA
Δ = 45° 51' 38"
R = 300.00
T = 126.91
L = 240.13

EBIR STREET

EXIST. CONC.

10 LF 10" CONC @ 0.050 RIP RAP SUMP INV 272.85

R=35'

TYPE I CB 36+00 RT

CONNECT EXISTING 8" CONC. TO CB.

10' SLOPE CONSTRUCTION & UTILITY EASEMENT

33+48.11 END RIGHT LANES TRANSITION FOR SUPER BACK
BEGIN RIGHT LANES TRANSITION FOR SUPER AHEAD

257.65 260.15 262.66 265.16 267.68 270.17 272.67 275.18 277.68 280.11 282.54 284.97

SCHEDULE OF T.O.C. ELEVATIONS FOR SUPERELEVATION SECTIONS

STATION	TOC LEFT	TOC RIGHT
32+50	258.30	257.48
32+75	259.55	258.76
33+00	260.73	260.05
33+25	261.84	261.34
33+50	262.97	262.65
33+75	264.09	264.06
34+00	265.20	265.48
34+25	266.38	266.90
34+50	267.64	268.31
34+75	268.88	269.73
35+00	270.14	271.04
35+25	271.39	272.29
35+50	272.64	273.54
35+75	273.89	274.79
36+00	275.15	276.05
36+25	276.40	277.30
36+50	277.65	278.55
36+75	278.86	279.76
37+00	280.08	280.98
37+25	281.29	282.19
37+50	282.51	283.24
37+75	283.72	284.28
38+00	284.94	285.33
38+25	286.15	286.38

290 285 280 275 270 265 260 255 250

32+50 33+00 34+00 35+00 36+00 37+00 38+00

PT 32+68.31 FG 258.56

5.01%

6" WATER

8" CONC SS

12" PVC

155 LF 10" CONC @ 0.051

50 LF 12" CONC @ 0.045

INV 251.10

CB 33+00 LT
RIM 260.13
INV NW 257.81 (6" EX)
INV S 253.32 (12")
INV N 253.45 (10")

INLET 34+00 RT.
RIM EL 264.80
INV W 260.00 (8")

CB 34+00 LT
RIM EL 264.52
INV S 255.55
INV N 255.65

PC 34+83.11 FG 269.82

0 WATER

115 LF 10" PVC @ 0.052

CB 35+18 LT 15
RIM EL 270.05
INV S 264.37
INV N 264.47

80 LF 10" CONC @ 0.046

85 LF 10" PVC @ 0.052

CB 36+00 (26' RT)
RIM EL 275.49
INV E 272.40 (EX 8")
INV W 270.50 (10")
INV S 272.35 (10")

CB 36+05 LT
RIM EL 274.80
INV N 268.48
INV E 268.38

GRADE BREAK 36+50

4.86%

PT 37+23.24 FG 281.24

0 GAS

CB 37+00 LT
RIM EL 279.48
INV N 273.00
INV S 272.90

75 LF 10" PVC @ 0.0508

22 LF 10" CONC @ 0.054

6" WATER

INV 278.10

CB 37+75 LT
RIM EL 283.36
INV NW 280.42 (EXIST 12")
INV E 276.94 (10")
INV S 276.81 (10")
INV N 276.91 (10")

CB 37+78 RT
RIM EL 285.84
INV W 279.19 (10")
INV NE 279.10

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

RECORD DRAWINGS

NO.	REVISION	BY	DATE

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

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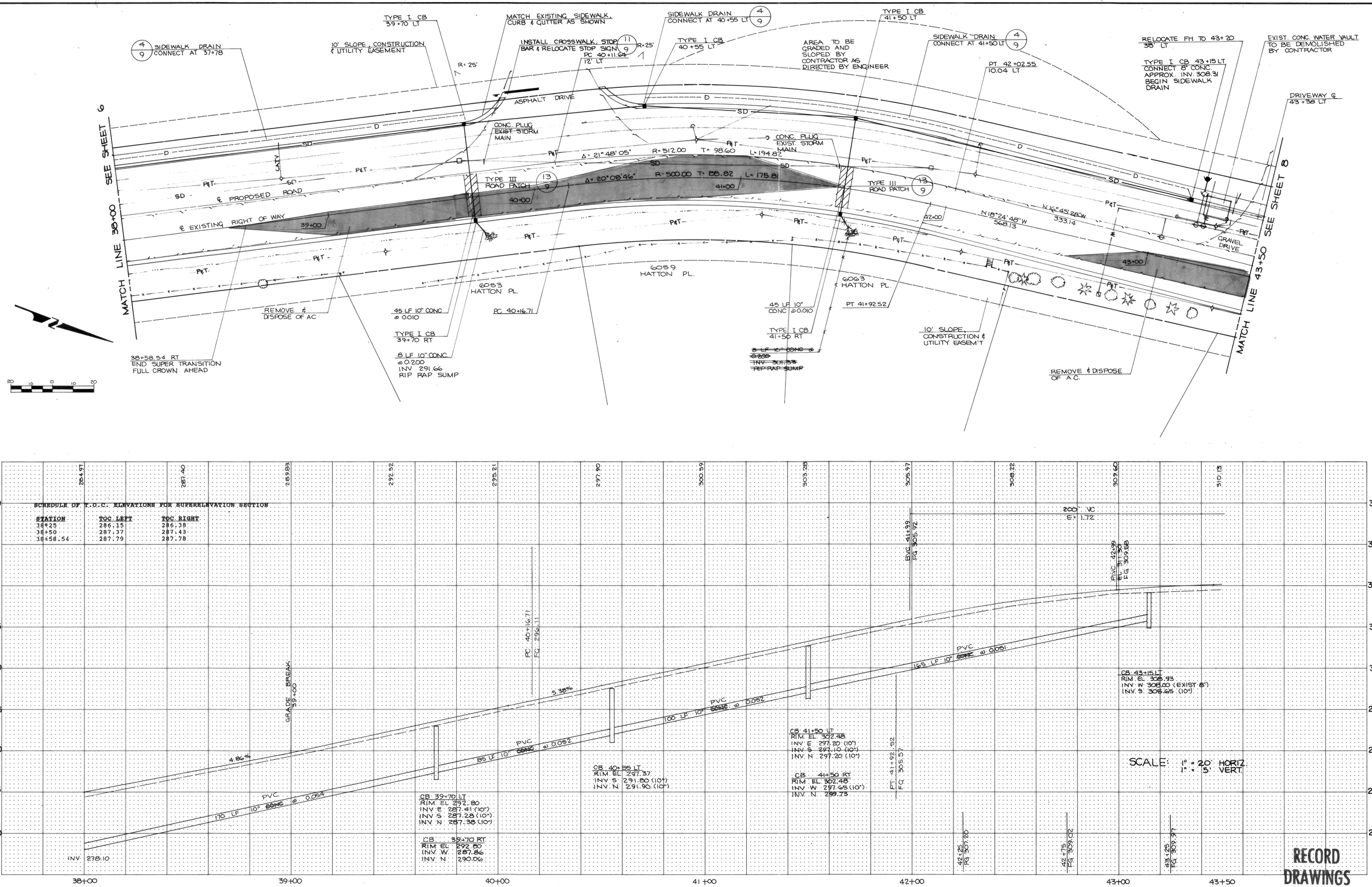
DRAWN BY: T.E.P.
CHECKED BY: C.O.L.

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985(001)
PLAN AND PROFILE 32+50 TO 38+00

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061
SHEET: 6 OF 19

134375



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BELLINGHAM, WASHINGTON 671-8200, 354-3723

DESIGNED BY: J.L.W.
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CHECKED BY: C.O.L.

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985(001)
PLAN AND PROFILE 38+00 TO 43+50

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061
SHEET 7 OF 19

2-8-91 LOG

124378

CD188.009 2-8-04 KE

SEE SHEET 7

43+50 LINE MATCH

PC 45+35.56
0.42 LT.

REMOVE & DISPOSE OF A.C.

REMOVE EXISTING CONC. STAIRS AND INSTALL NEW STAIRS TO SAME STANDARDS. MATCH W/ EXISTING LOWER WALK

(14/9) GUARD RAIL

(11/9) 10' WIDE CROSSWALK W/ 12" WHITE THERMO-PLASTIC BARS

REMOVE, DISPOSE OF & REPLACE CONC CURB & SIDEWALK (TYP.)

MATCH CURB, GUTTER & SIDEWALK TO EXIST.

INLET 45+50

INLET 47+10 LT

CONC. 3' W/ 4" CURB

#6041

#6041

ROOFING

EXISTING WALK

T&P

GRAVEL DRIVE

℄ PROPOSED ROADWAY

N16°45'28"W 333.14

N16°24'48"W 568.13

℄ EXISTING RIGHT OF WAY

43+00

44+00

45+00

46+00

47+00

TYPE III ROAD PATCH (13/9)

TYPE III ROAD PATCH (13/9)

CONC DRIVE

CONC. DRIVE

CONC. DRIVE

#6063

#6080

#6094

20' WIDE

40' WIDE

25' WIDE

DRIVEWAY ℄ 44+13.5 RT (2/9)

DRIVEWAY ℄ 44+47 RT (2/9)

DRIVEWAY ℄ 45+25 RT (2/9)

LANE REDUCTION SIGN - W4-2
43+75, 30' RT

PT 45+64.45
0.0 LT

45 LF 8" CONC @ 0.010

TYPE I CB
45+50 RT

45+37.5 RT
~~BEGIN GORE STRIPING FOR LANE REDUCTION - 6" WHITE LINE @ 45° @ 80 FEET O.C.~~

RELOCATE WATER SERVICE TO R.O.W. (TYP.)

45 LF 8" CONC @ 0.010

TYPE I CB
47+10 RT

TYPE I CB
47+26 RT

99 LF 12" PVC

12" PVC

THORNTON ROAD

N89°40'00"W

SS

W

TYPE I CB
~~47+71, 24' RT~~
~~CONNECT EXIST. 10" CMP~~

INTERSECTION DETAIL (18/10)

END OF PROJECT 48+20
MATCH EXISTING A.C.

EXISTING INLET

20 10 0 10 20

310.11 309.79 309.04 308.30 307.55 306.81 306.05 303.32 304.57 303.64 302.97

320 315 310 305 300 295 290

VC

43+99
EVC: FG 309.81

-1.49%

-3.50%

WATER

WATER

160 LF 10" CONC @ 0.012

WATER

PVC

INTERSECTION VISTA DRIVE 47+56.46
THORTON ROAD FG 304.47

GRADE BREAK
47+92
FG 303.95

END OF PROJECT
48+20

CB 47+26 RT.

43+59.50
FG 310.13

48+75
FG 310.07

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

CB 45+50 RT
RIM 306.75
INV W 302.88
INV N 302.75

INLET 45+50 LT
RIM 306.75
INV E 303.33 (6")

CB 47+10 RT
RIM 304.37
INV W 300.84 (8")
INV N 300.73 (12")
INV S 300.53 (10")

INLET 47+10 LT
RIM 304.37
INV E 301.31 (8")

~~CB 47+71 RT~~
~~RIM 303.00±~~
~~INV S 300.00 (12")~~

43+50 44+00 45+00 46+00 47+00 47+71 48+00

RECORD DRAWINGS

NO.	REVISION	BY	DATE

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

State of Washington — Registered Professional Engineer & Land Surveyor

DESIGNED BY: J.L.W.
DRAWN BY: T.E.P
CHECKED BY:

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985(001)
PLAN AND PROFILE 43+50 TO 48+20

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061

SHEET 8 OF 19

124375

8'

4'

VISTA DRIVE ROADWAY IMPROVEMENTS
WASHINGTON STATE TRANSPORTATION IMPROVEMENT PROGRAM

OWNER:
CITY OF FERNDALE

CITY MANAGER:
RON PETERSON

DIRECTOR OF PUBLIC WORKS:
JOHN ELEY

CONSULTING & PROJECT ENGINEER:
WEDEN ENGINEERING, INC.

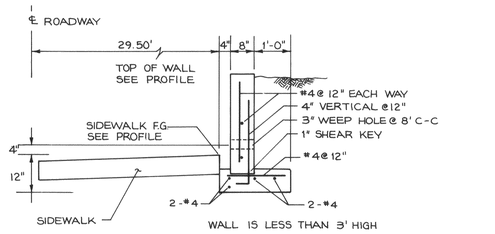
SUBCONSULTANTS:
RZA CONSULTANTS, INC.

PRIME CONTRACTOR:
(NAME)

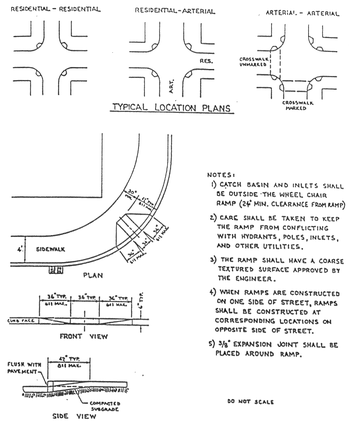
THIS PROJECT IS SUPPORTED BY A GRANT
FROM THE WASHINGTON STATE TRANSPORTATION IMPROVEMENT BOARD
TIB NO. 9-W-985-(001)

PROJECT CONSTRUCTION SIGN

DETAIL 1 VAR. N.T.S.



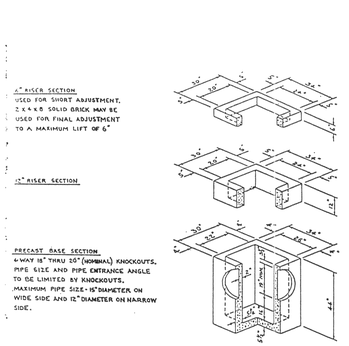
12 / 2 TYPICAL RETAINING WALL SECTION
SCALE: 1"=2'



NOTES:
1) CATCH BASIN AND INLETS SHALL BE OUTSIDE THE WHEEL CHAIR RAMP (36" MIN. CLEARANCE FROM RAMP)
2) CARE SHALL BE TAKEN TO KEEP THE RAMP FROM CONFLICTING WITH HYDRANTS, POLES, INLETS, AND OTHER UTILITIES.
3) THE RAMP SHALL HAVE A COARSE TEXTURED SURFACE APPROVED BY THE ENGINEER.
4) WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING LOCATIONS ON OPPOSITE SIDE OF STREET.
5) 3/8" EXPANSION JOINT SHALL BE PLACED AROUND RAMP.

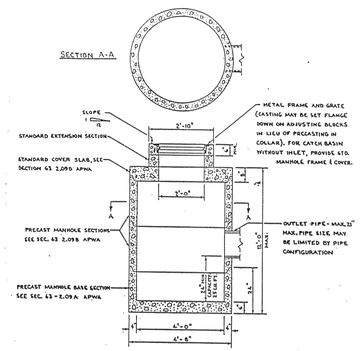
DO NOT SCALE

3 / VAR. WHEELCHAIR RAMP



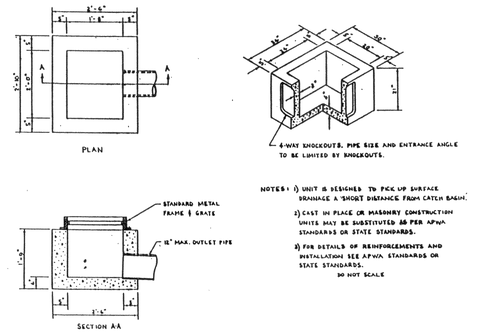
NOTES: 1) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER APWA STANDARDS OR STATE STANDARDS.
2) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION, SEE APWA STANDARDS OR STATE STANDARDS.

5 / VAR. CATCH BASIN TYPE I



NOTES: 1) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION, SEE APWA STANDARDS OR STATE STANDARDS.
2) CAST IN PLACE OR MASONRY CONSTRUCTION MAY BE SUBSTITUTED AS PER APWA STANDARDS OR STATE STANDARDS.

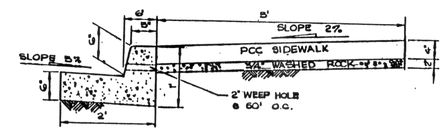
6 / VAR. CATCH BASIN TYPE II



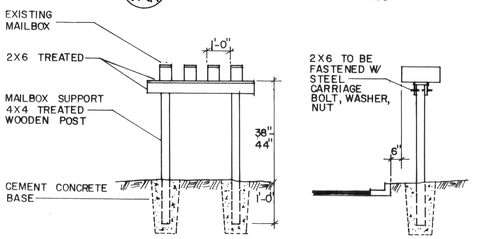
NOTES: 1) UNIT IS DESIGNED TO PICK UP SURFACE DRAINAGE A SHORT DISTANCE FROM CATCH BASIN.
2) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER APWA STANDARDS OR STATE STANDARDS.
3) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION SEE APWA STANDARDS OR STATE STANDARDS.

DO NOT SCALE

7 / VAR INLET



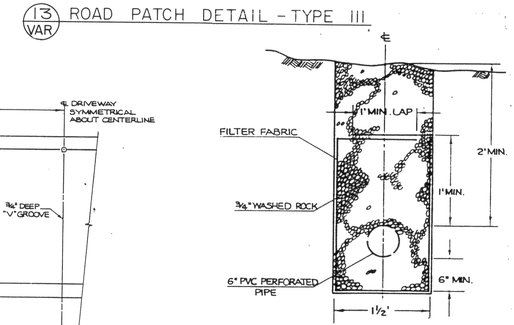
9 / VAR CONCRETE SIDEWALK, CURB & GUTTER N.T.S.



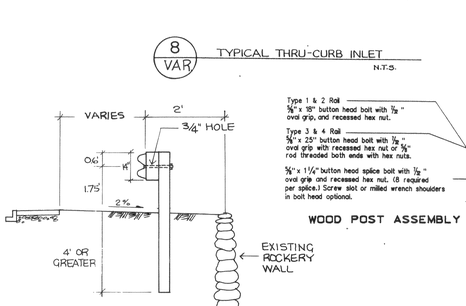
MAILBOX DETAIL

NOTES:
MAILBOXES SHALL BE REINSTALLED ON SINGLE OR DOUBLE SUPPORTS. THREE OR MORE MAILBOXES SHALL HAVE DOUBLE SUPPORTS.

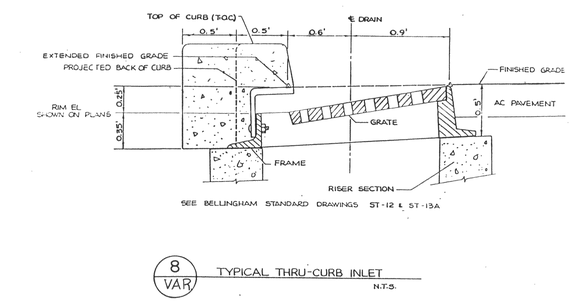
MAILBOX SCHEDULE:
5803 5841 5849 5856
5862 5864
5880
5913
5937
5958 5959
5973 5979
6033
6086
5853 5860
5874
5890 5893 5897 5898
5919
5942 5946 5950
5972 I2
5987 6009
6076 6080



13 / VAR ROAD PATCH DETAIL - TYPE III



4 / VAR. CURTAIN DRAIN N.T.S.

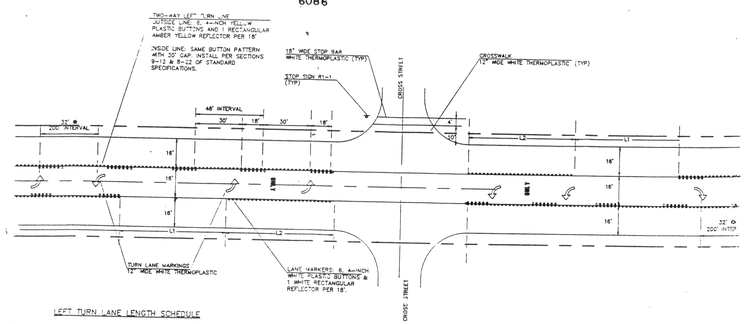


SEE BELLINGHAM STANDARD DRAWINGS ST-12 & ST-13A

8 / VAR TYPICAL THRU-CURB INLET N.T.S.

WOOD POST ASSEMBLY DETAILS

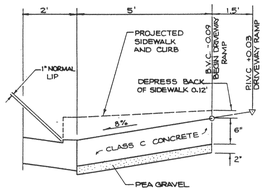
14 / 8 W BEAM GUARDRAIL - TYPE I NTS



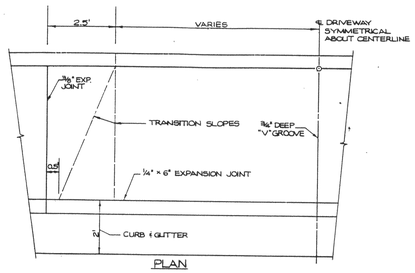
LEFT TURN LANE LENGTH SCHEDULE

CROSS STREET OR STATION		L1	L2
EAST VIEW PLACE	16+58	60'	54'
EAST & WEST SEAMOUNT	19+03,19+33	72'	72'
JONES DRIVE	24+86	72'	72'
EAST & WEST SUNRISE	31+48, 31+80	72'	72'
EBIR STREET	35+82	48'	48'
VISTA MIDDLE SCHOOL	40+10	84'	126'
THORNTON ROAD	47+70	72'	234'

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9W-985-001
REVISED PAVEMENT MARKING EXHIBIT
REVISION NO. 2

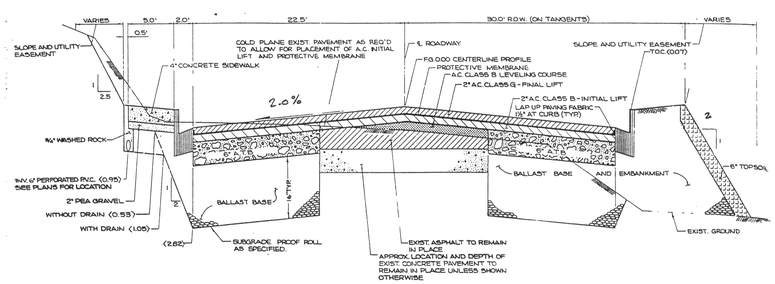


SECTION

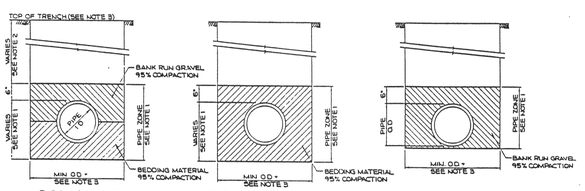


PLAN

TYPICAL DRIVEWAY DETAIL 2 / VAR.



TYPICAL ROADWAY SECTION
NTS



Notes:
1. O.D. plus 4 inches for pipe 27 inches and smaller. O.D. plus 6 inches for pipe over 27 inches.
2. Backfill above the pipe zone in parking areas shall be bank run gravel compacted to 95%. Backfill above the pipe zone in non parking areas may be selected in 1 1/2 inch minus trench side material compacted to 95%.
3. The pay width for compaction of bank run gravel above the pipe zone will be I.D. plus 2 feet. The pay depth will be from the top of the pipe zone to the top of the trench measured at centerline of pipe.

10 / VAR. TRENCH BACKFILL DETAIL N.T.S.

11 / VAR PAVEMENT MARKING (TYP.) NTS

RECORD DRAWINGS

NO.	REVISION	BY	DATE
1	PAVEMENT MARKING	JLW	6/21/92

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

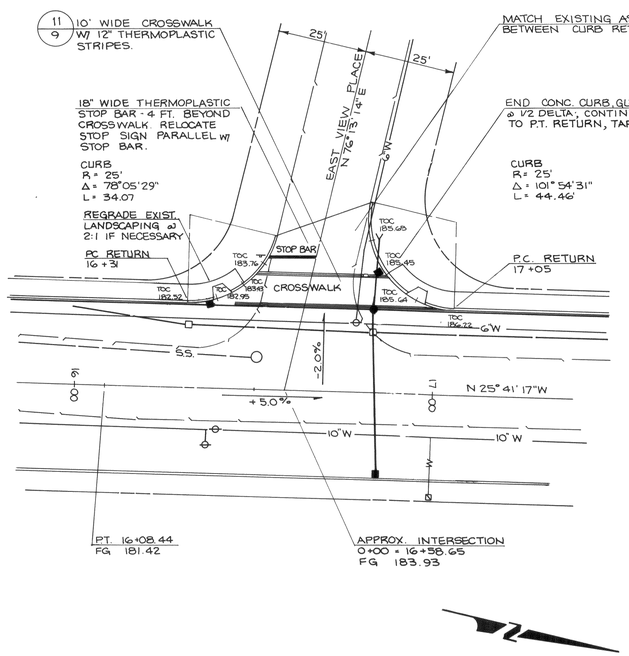
DESIGNED BY: JLW
DRAWN BY: TEP
CHECKED BY: COL

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985-(001)
DETAILS

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061
SHEET 9 OF 19

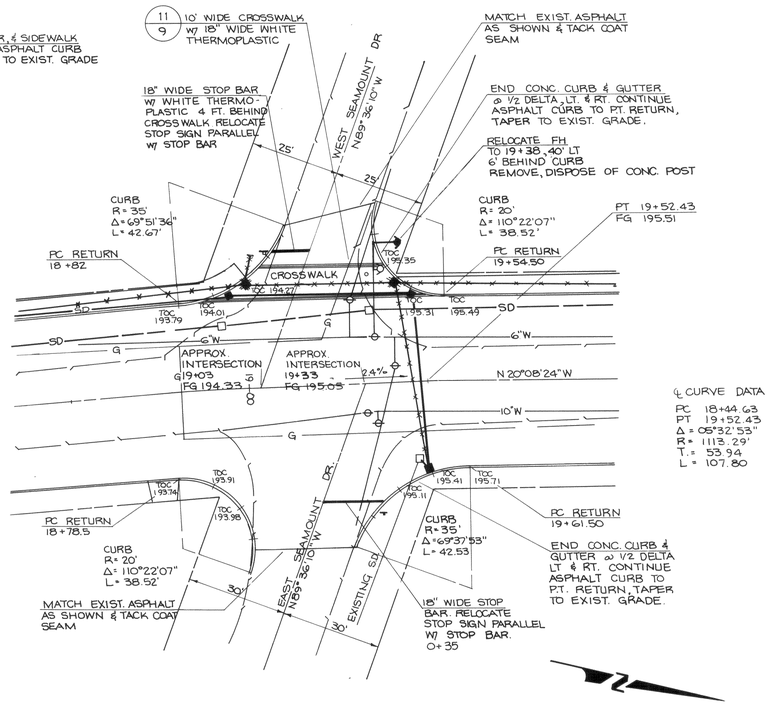
90061

124375



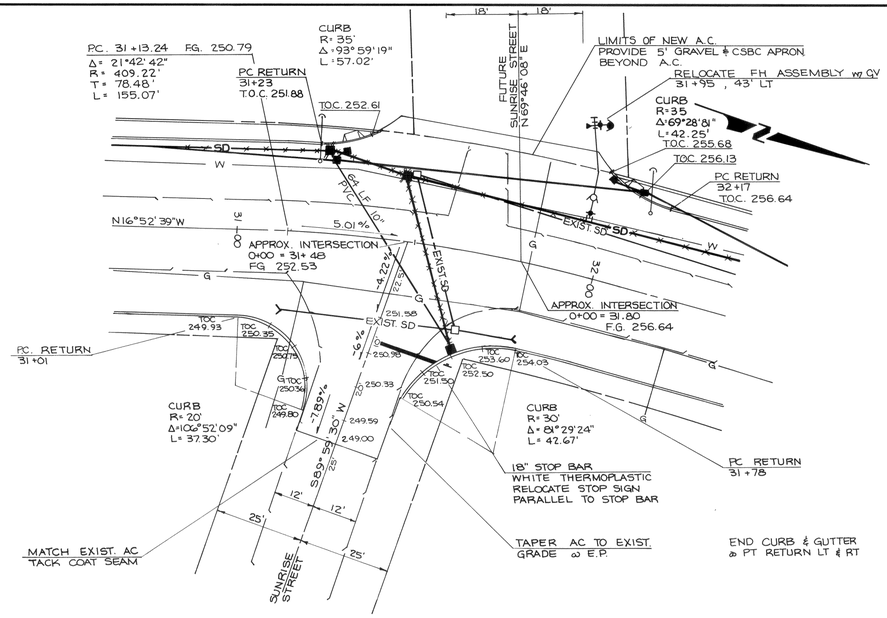
13/3 EAST VIEW PLACE INTERSECTION DETAIL

SCALE: 1" = 20'



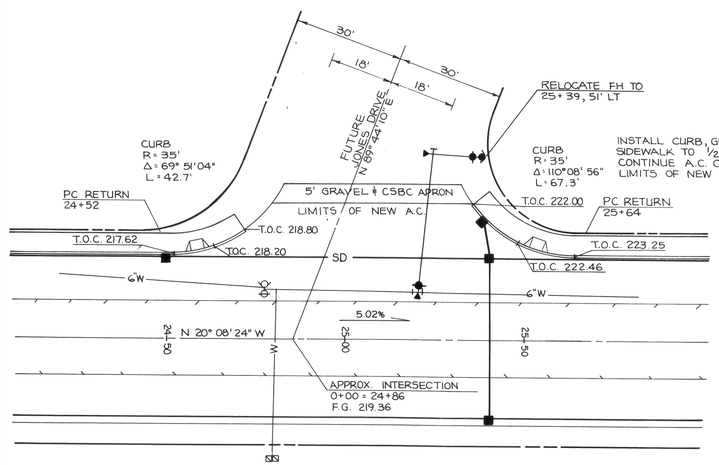
14/3 EAST & WEST SEAMOUNT DRIVES INTERSECTION DETAIL

SCALE: 1" = 20'



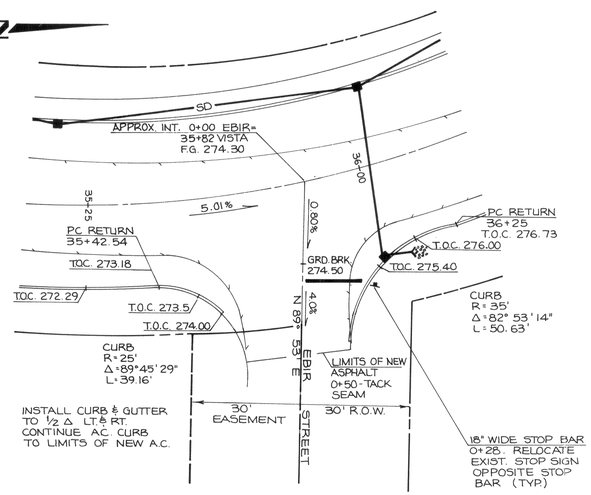
15/5 SUNRISE STREET INTERSECTION DETAIL

SCALE: 1" = 20'



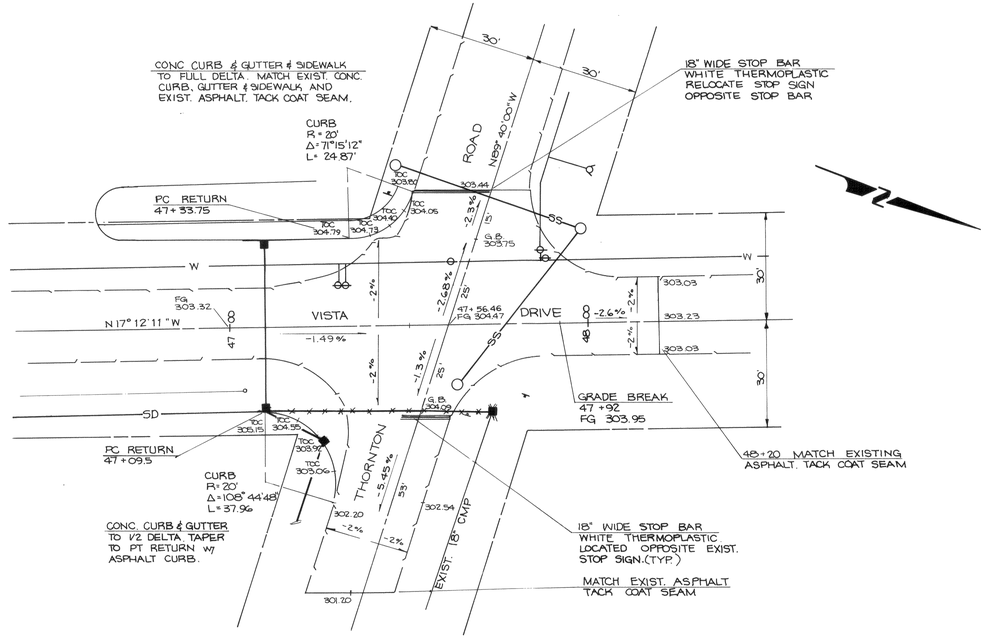
16/4 JONES DRIVE INTERSECTION DETAIL

SCALE: 1" = 20'



17/6 EBIR STREET INTERSECTION DETAIL

SCALE: 1" = 20'



18/8 THORNTON ROAD INTERSECTION DETAIL

SCALE: 1" = 20'

RECORD DRAWINGS

NO.	REVISION	BY	DATE

WEDEN ENGINEERING, INC.

ENGINEERING AND LAND SURVEYING

BELLINGHAM, WASHINGTON 671-8200, 354-3723

DESIGNED BY: J L W

DRAWN BY: T E P

CHECKED BY: C O L

CITY OF FERNDALE

VISTA DRIVE ROADWAY IMPROVEMENTS

TIB NO. 9-W-985-(001)

DETAILS

DATE: MAY 91

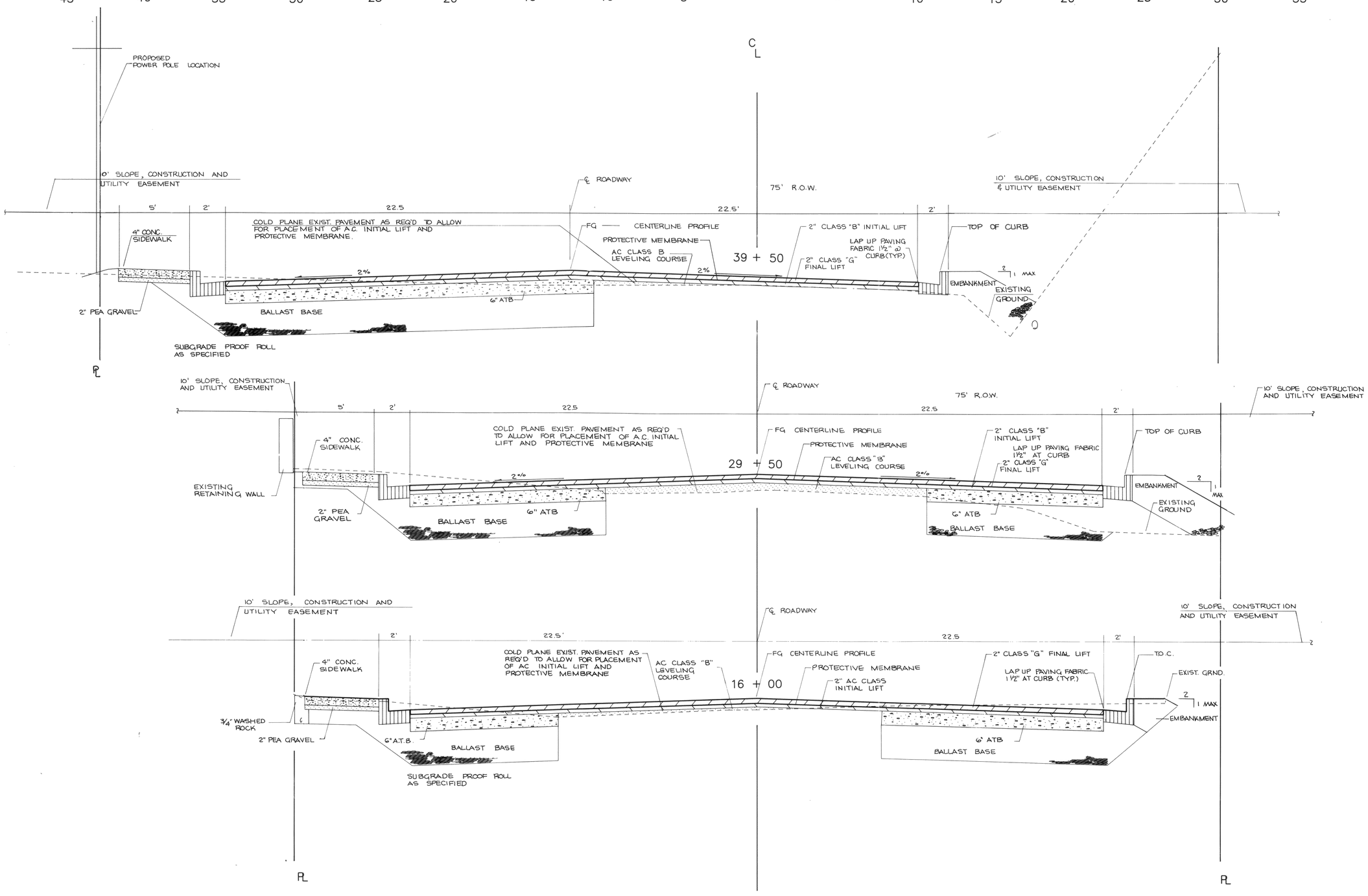
SCALE: AS SHOWN

JOB NO. 90061

SHEET 10 OF 19

124375

45 40 35 30 25 20 15 10 5 C L 5 10 15 20 25 30 35



RECORD DRAWINGS

45 40 35 30 25 20 15 10 5 C L 5 10 15 20 25 30 35

NO.	REVISION	BY	DATE

WEDEN ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
BELLINGHAM, WASHINGTON 671-8200, 354-3723

DESIGNED BY: J.L.W.
DRAWN BY: T.E.P.
CHECKED BY: CDL

CITY OF FERNDALE
VISTA DRIVE ROADWAY IMPROVEMENTS
TIB NO. 9-W-985(001)
CROSS SECTIONS

DATE: MAY '91
SCALE: AS SHOWN
JOB NO.: 90061
SHEET 11 OF 19