

AS-BUILT

CIVIL IMPROVEMENTS DATA

OWNERS/DEVELOPERS: SOUTH DOUGLAS, LLC

CONSULTANT: RONALD T. JEPSON & ASSOCIATES
222 GRAND AVE., SUITE 'C'
BELLINGHAM, WASHINGTON 98225
(360) 733-5760
FAX: 360-647-8939

SURVEY EQUIPMENT & PROCEDURE

THIS SURVEY WAS COMPLETED AND ACCOMPLISHED BY FIELD
TRAVERSE USING A TOPCON GPT-8200A SERIES TOTAL STATION ON 10/2005.
THE ACCURACY MEETS OR EXCEEDS THE STANDARDS CONTAINED IN WAC 331-130-090.

BASIS OF BEARINGS

THAT RECORD OF SURVEY FILED UNDER WHATCOM COUNTY A.F. NO. 931119056

PROJECT BENCHMARK

FERN 07 COORDINATE
NORTH 679459.13
EASTING 1211031.14
ELEV 147.15

FERN 10 COORDINATE
NORTH 673934.78
EASTING 1210873.19
ELEV 8.30

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

SECTION 30
TOWNSHIP 39 NORTH
RANGE 2 EAST

SHEET INDEX

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EC-1	EXISTING CONDITIONS AND TESC PLAN
EC-2	EXISTING CONDITIONS AND TESC PLAN
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RD-2	CHURCH ROAD PLAN AND PROFILE
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RD-6	DOUGLAS ROAD PLAN AND PROFILE
DS-1	DOWNSTREAM STORM PLAN
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SS-6	DOUGLAS ROAD SANITARY SEWER AND WATER PLAN
SS-7	DOUGLAS ROAD SANITARY SEWER AND WATER PLAN
D-1	CONSTRUCTION DETAILS
D-2	CONSTRUCTION DETAILS
D-3	CONSTRUCTION DETAILS
GN-1	GENERAL NOTES



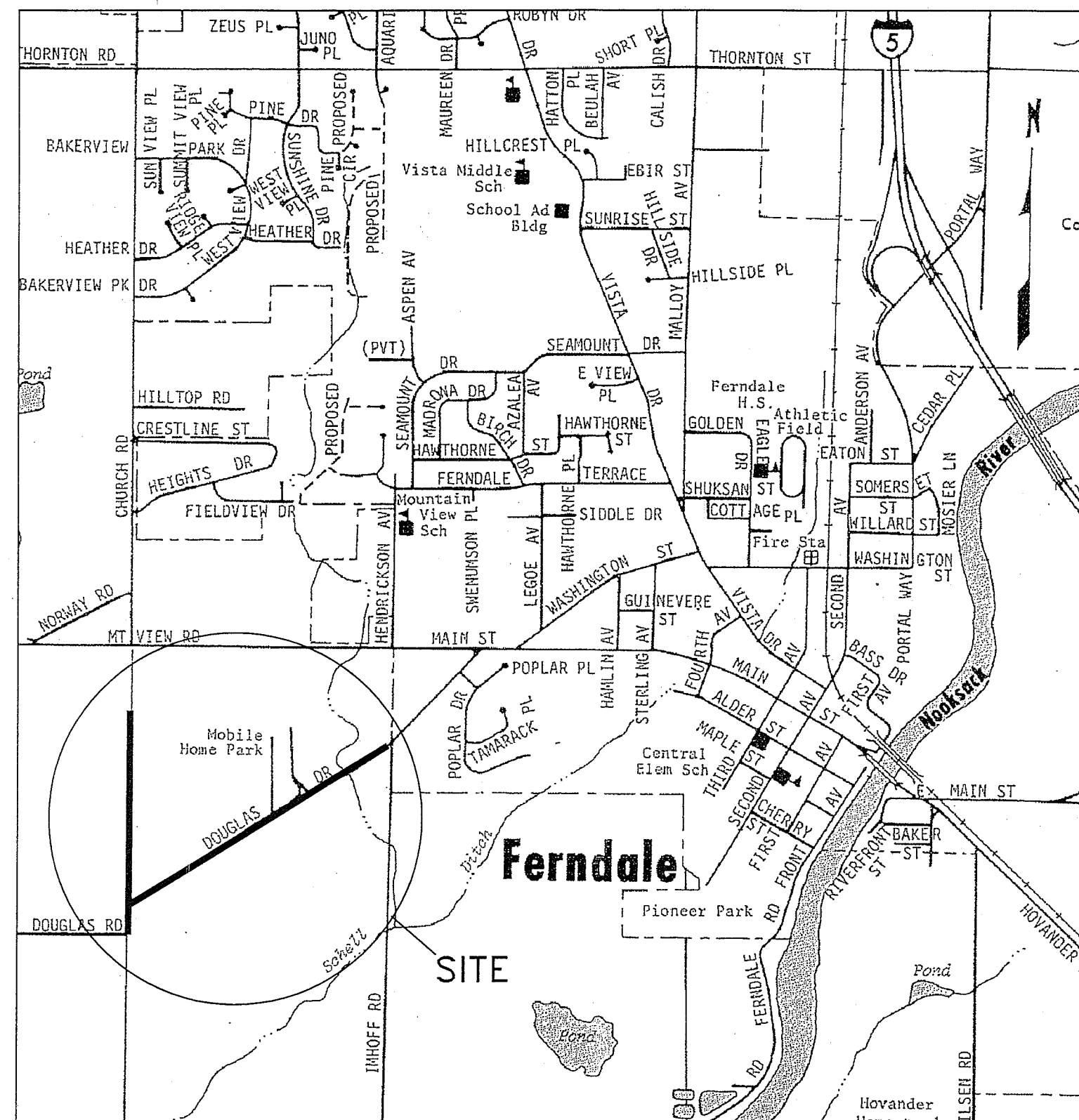
RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING — SURVEYING — LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.RONALDTJEPSON.COM

CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH
DOUGLAS LONG PLAT DIV.1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERDALE, COUNTY OF WHATCOM.
WASHINGTON

SCALE: AS SHOWN
DATE: 2/16/2010

T-1

WO: 05055



VICINITY MAP
1"=1000'

LEGEND

		(N)		(E)	
CL	CENTERLINE	(N) NEW			
CO	CLEANOUT	NTS NOT TO SCALE	●	○	MANHOLE
(E)	EXISTING	PCC PORTLAND CEMENT CONCRETE	■	□	CATCH BASIN
EP	EDGE OF PAVEMENT	PL PROPERTY LINE	◼	◼	WATER VALVE
FD	FOUND	POC POINT OF CONNECTION	●	○	FIRE HYDRANT
FF	FINISH FLOOR	PVC POLYVINYL CHLORIDE	◼	◼	WATER METER
FG	FINISH GRADE	RBR REBAR	⊗	⊗	STREET LIGHT
FL	FLOWLINE	RCP REINFORCED CONCRETE PIPE	⬡ P	⬡ P	POWER VAULT
HB	HOSEBIB	SD STORM DRAIN	●	○	POWER POLE
HP	HIGH POINT	SS SANITARY SEWER	●	○	
INV	INVERT	TC TOP OF CURB	⊗		MONUMENT PER COF DETAIL S-2
LF	LINEAR FEET	W WATER			
LP	LIGHT POST	WM WATER METER	⊗		MONUMENT PER COF DETAIL S-1
CRN	CROWN OF PIPE	TIP TOP OF IRON PIPE	●		REBAR AND PLASTIC CAP
		BIP BOTTOM OF IRON PIPE			

PROPOSED STORM DRAIN
SD

EXISTING STORM DRAIN
SD

PROPOSED SEWER
SS

EXISTING SEWERLINE
SS

PROPOSED WATERLINE
W

EXISTING WATERLINE
W

(N) RETAINING WALL

(E) RETAINING WALL

EXISTING AERIAL TELEPHONE LINES
T

EXISTING AERIAL POWER LINE
P

EXISTING BURIED POWER LINE
P

60

(E) CONTOUR

(N) CONTOUR

ENGINEER'S CERTIFICATE

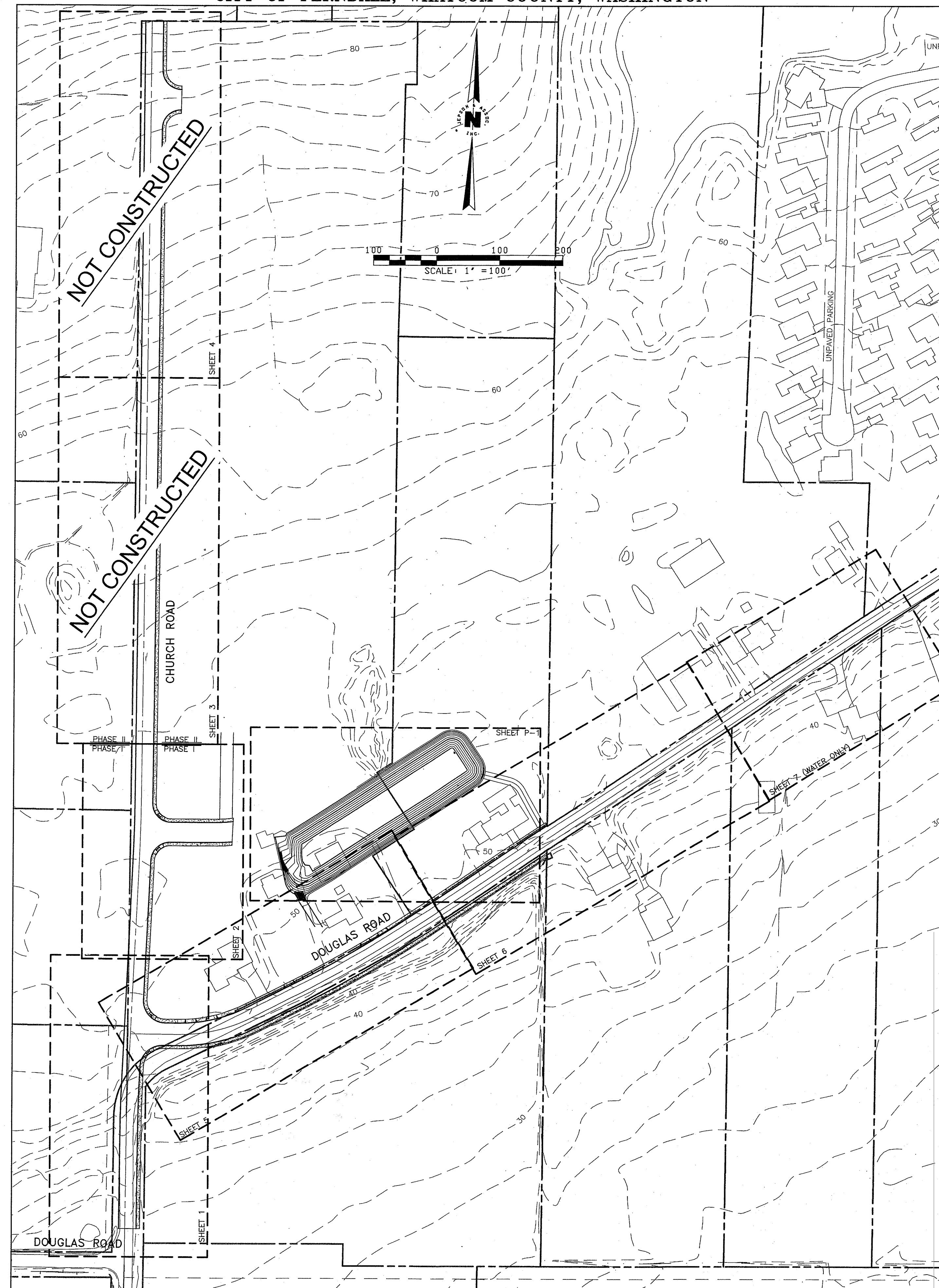
"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENT AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE _____."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361



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ENGINEER'S CERTIFICATE

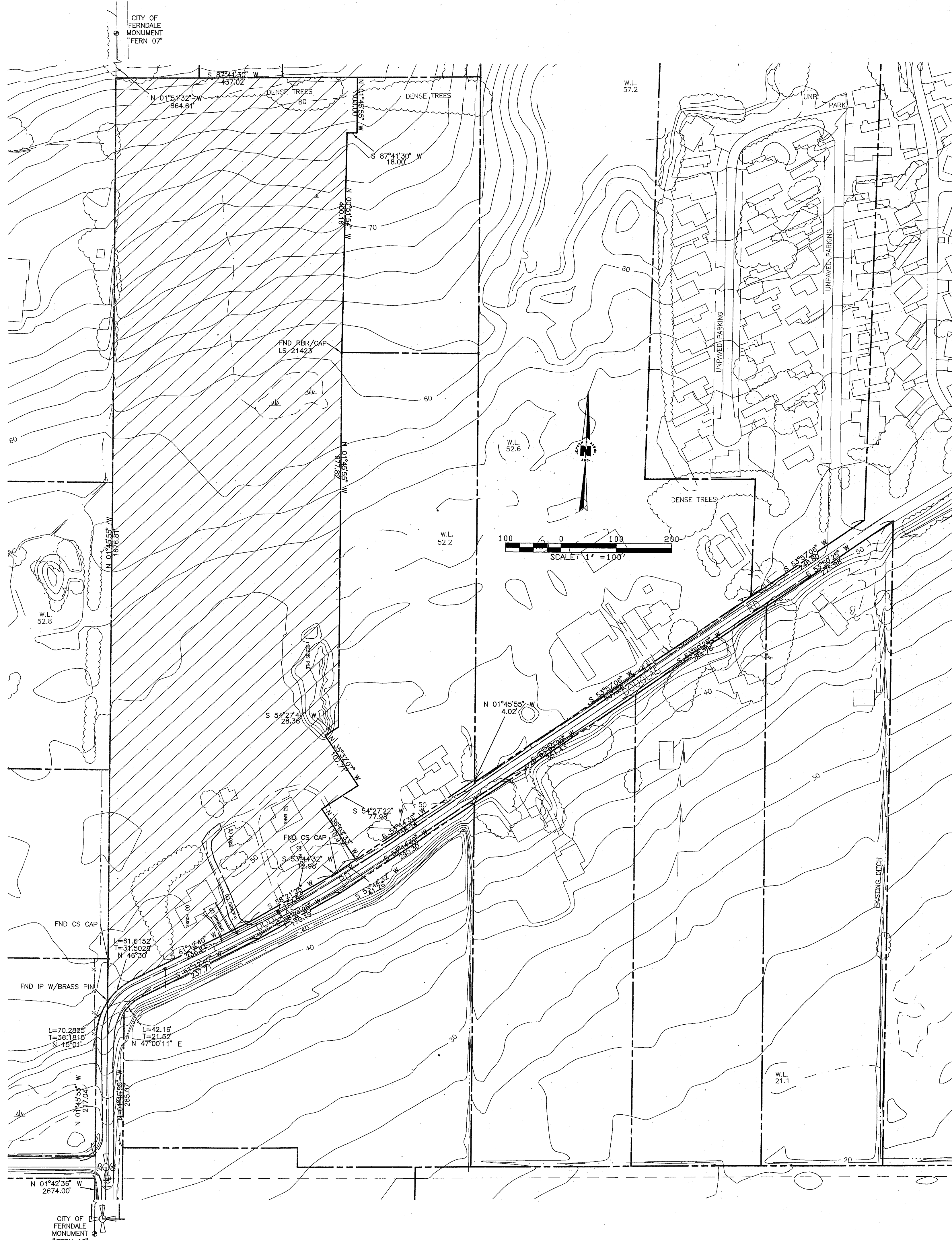
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Ronald T. Jepson 4/23/10
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CERTIFICATE NO. 9361



AS-BUILT

REVISIONS	
DESIGNED BY	BJW
DRAWN BY	DMK
DATE:	
RONALD T. JEPSON	ENGINEER
RCE:	41665
	4/23/10

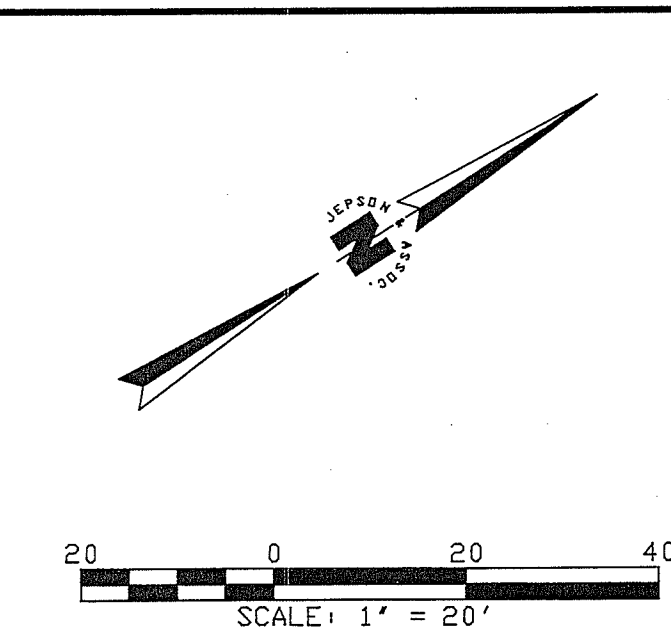
RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.RONALDTJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS LLC / SOUTH CHURCH LLC
EXISTING BOUNDARY CONDITIONS
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM, WASHINGTON

SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	B-1
WO:	05055

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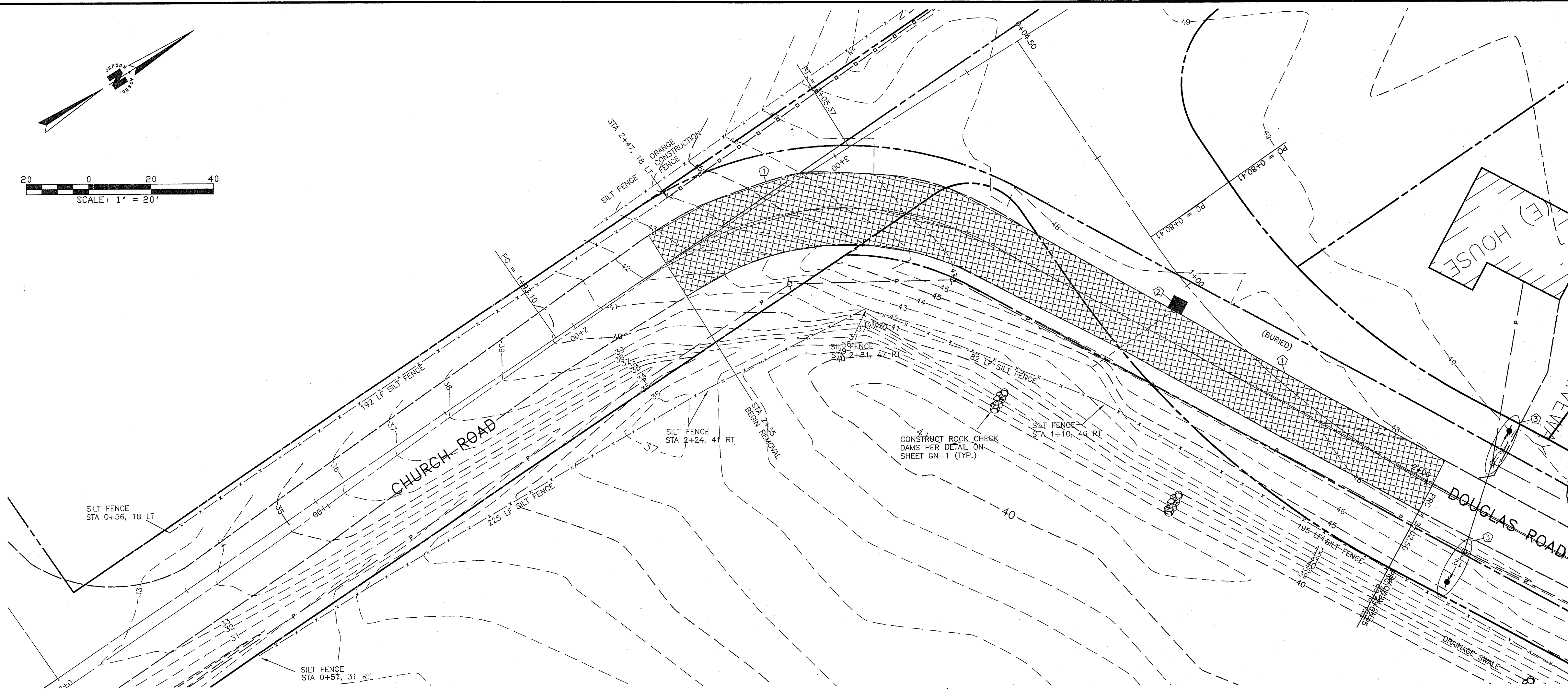
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CERTIFICATE NO. 9361

CHURCH/DOUGLAS ROAD INTERSECTION



AS-BUILT

DOUGLAS ROAD CONTINUED BELOW

- #### CONSTRUCTION NOTES
- 1 REMOVE EXISTING ROADWAY
 - 2 REMOVE EXISTING CATCH BASIN AND CULVERTS
 - 3 REMOVE AND/OR RELOCATE EXISTING UTILITY POLES

DOUGLAS ROAD CONTINUED ABOVE

REVISIONS

DESIGNED BY BJV
DRAWN BY DMK
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 41665
3/22/10
APPROVED
1/25/12

PREPARED FOR: SOUTH DOUGLAS, LLC

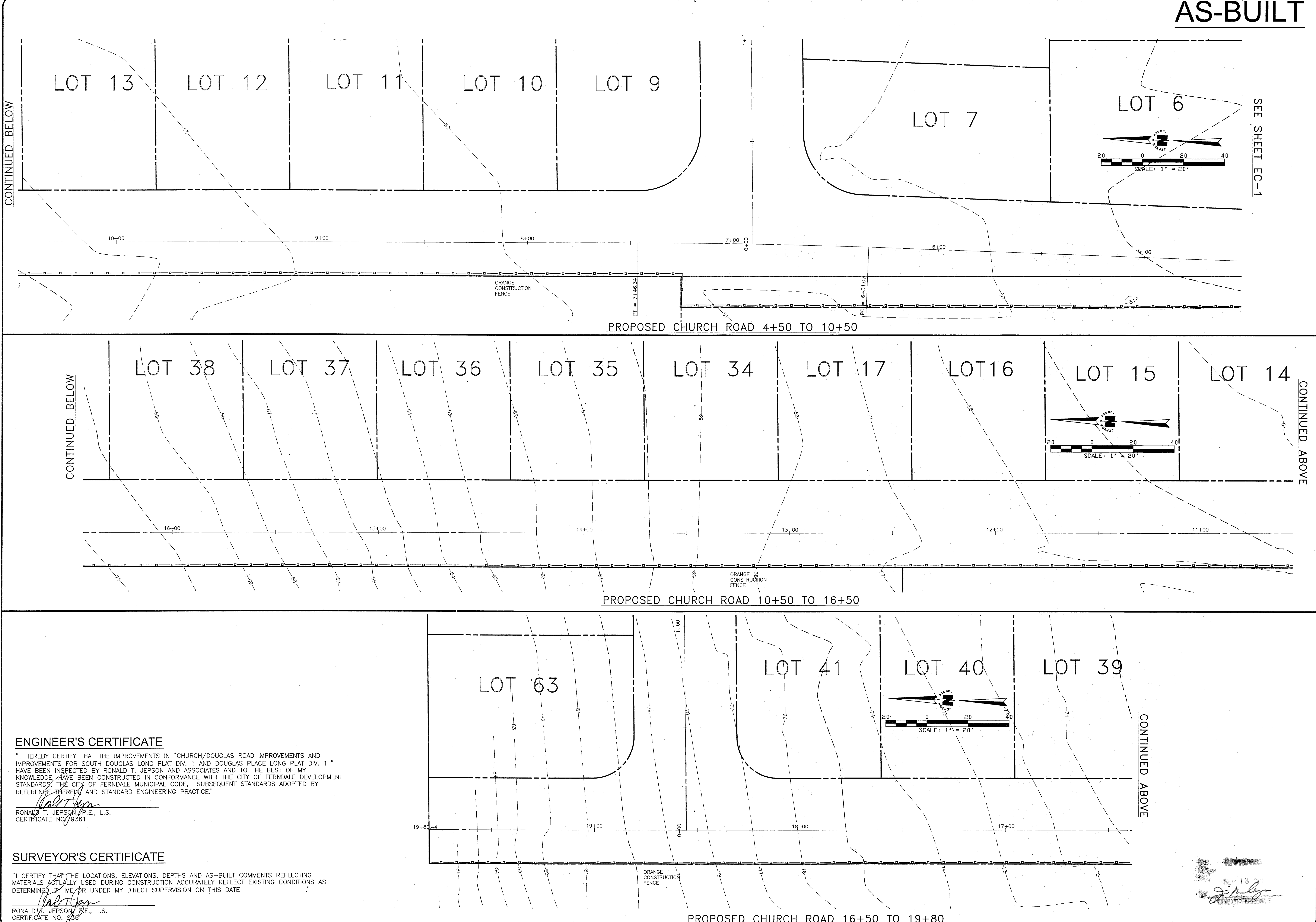
EXISTING CONDITIONS AND TESC PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV.1 AND DOUGLAS PLACE LONG PLAT DIV.1
FERNDALE, COUNTY OF WHATCOM, WASHINGTON

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET:
EC-1
WO: 05055

RONALD T. JEPSON & ASSOC.
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3/22/10	

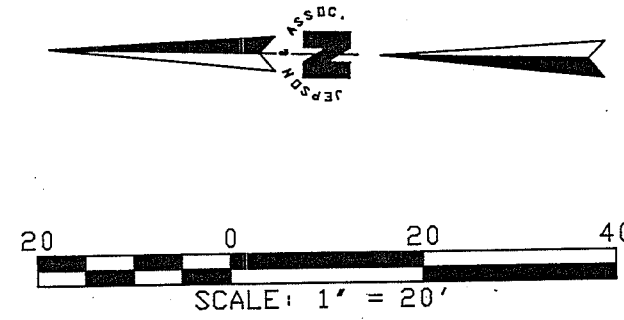
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PREPARED FOR: SOUTH DOUGLAS, LLC
EXISTING CONDITIONS AND TESC PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM.
WASHINGTON

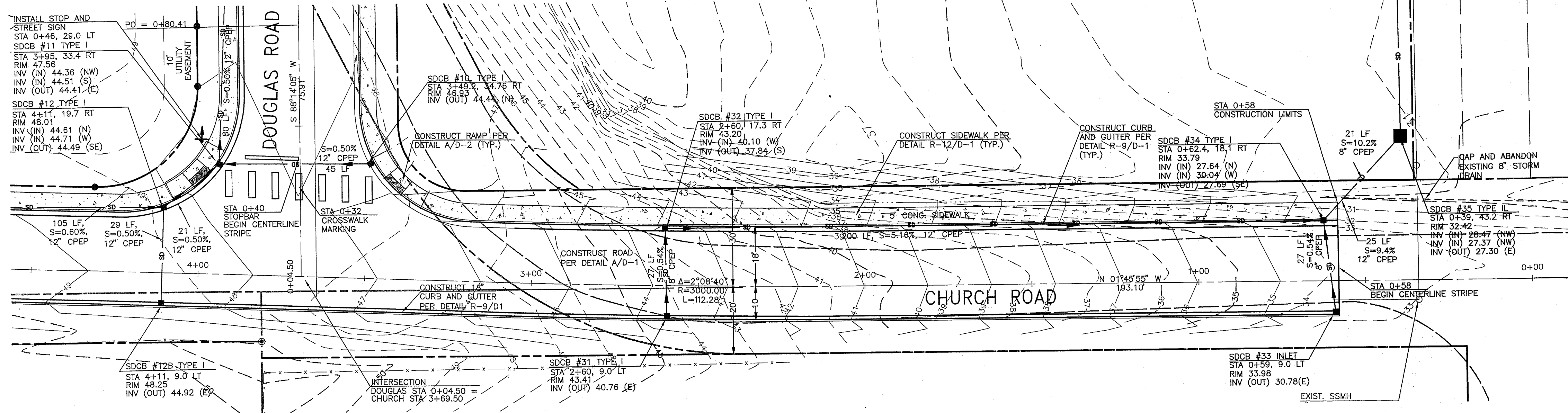
SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	EC-2
WO:	05055

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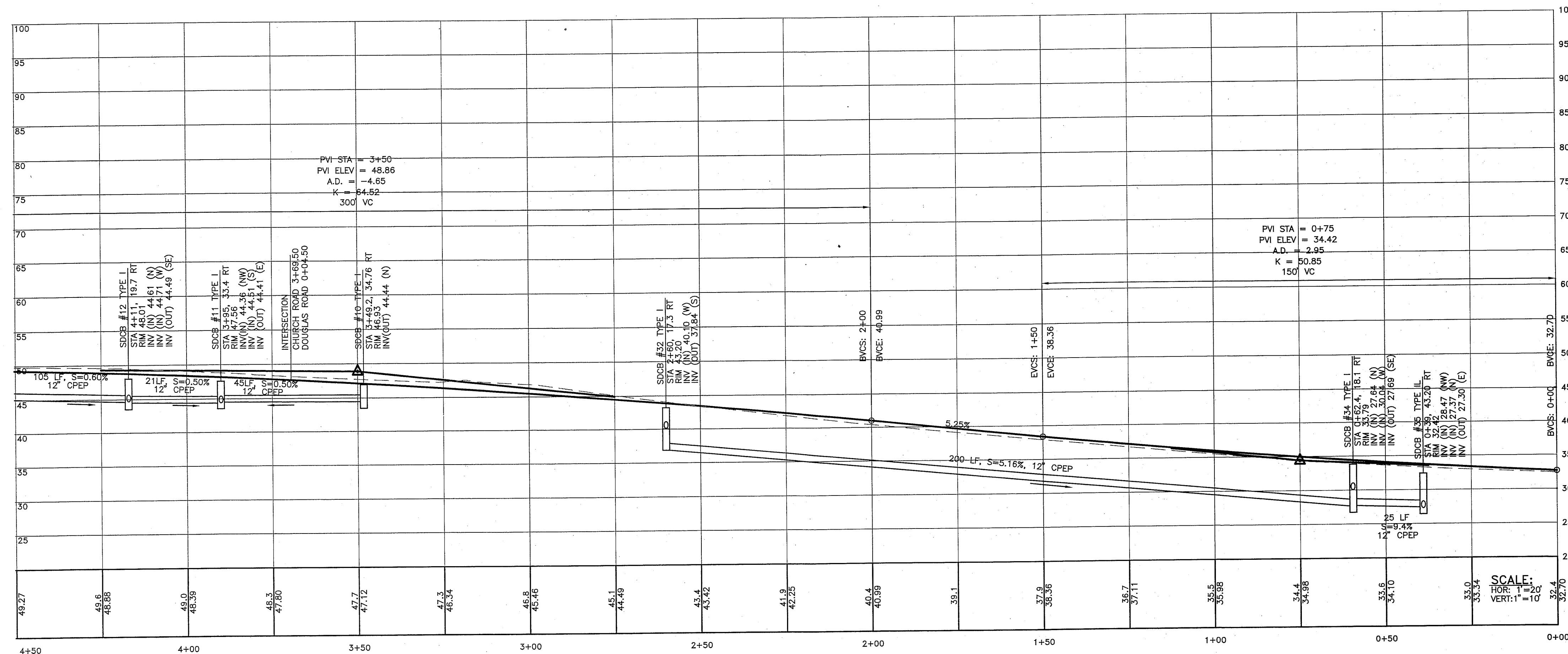


MATCHLINE
SEE SHEET RD-2



CHURCH ROAD PLAN

MATCHLINE
SEE SHEET RD-2



CHURCH ROAD PROFILE

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

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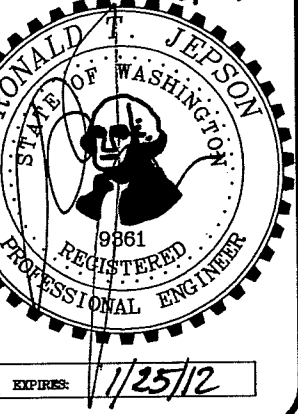
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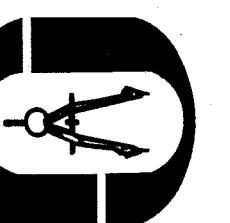
AS-BUILT

REVISIONS

DESIGNED BY: B/JW
DRAWN BY: DMK
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 41665
3/22/10



RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8839 WWW.RONALDTJEPSON.COM



PREPARED FOR: SOUTH DOUGLAS, LLC
CHURCH ROAD PLAN/PROFILE
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERDALE, COUNTY OF WHATCOM.

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET:
RD-1
WO: 05055

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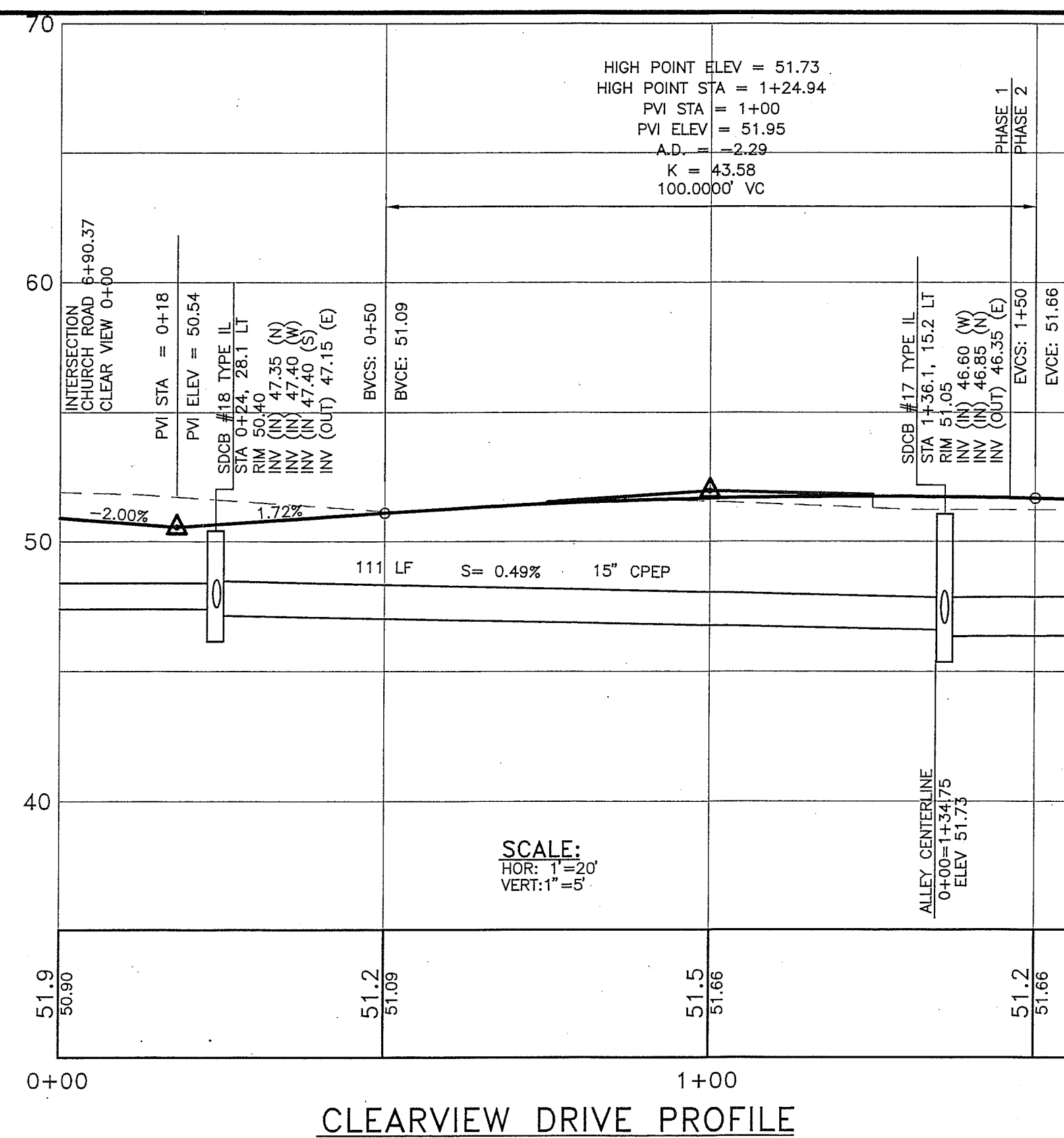
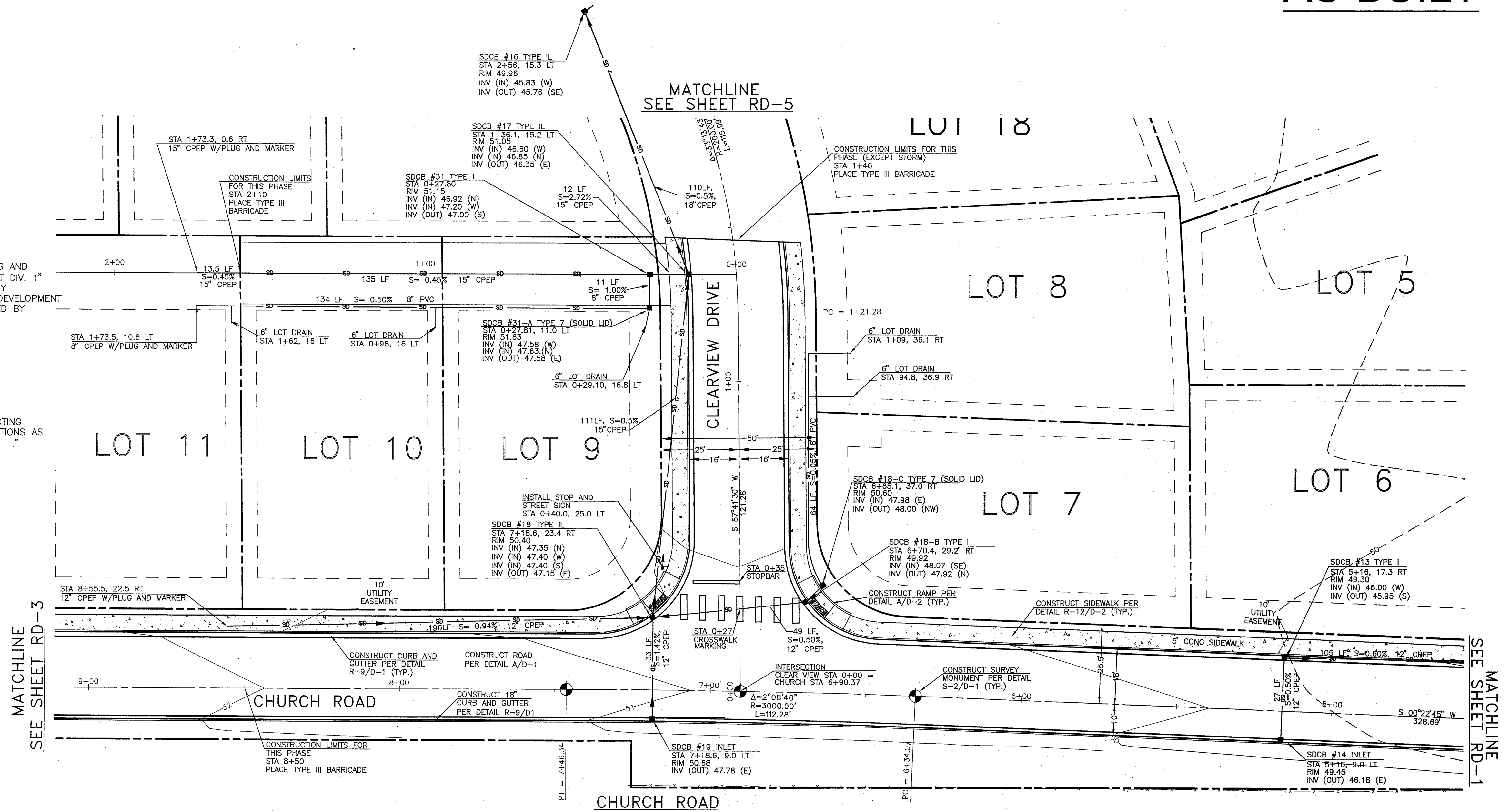
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

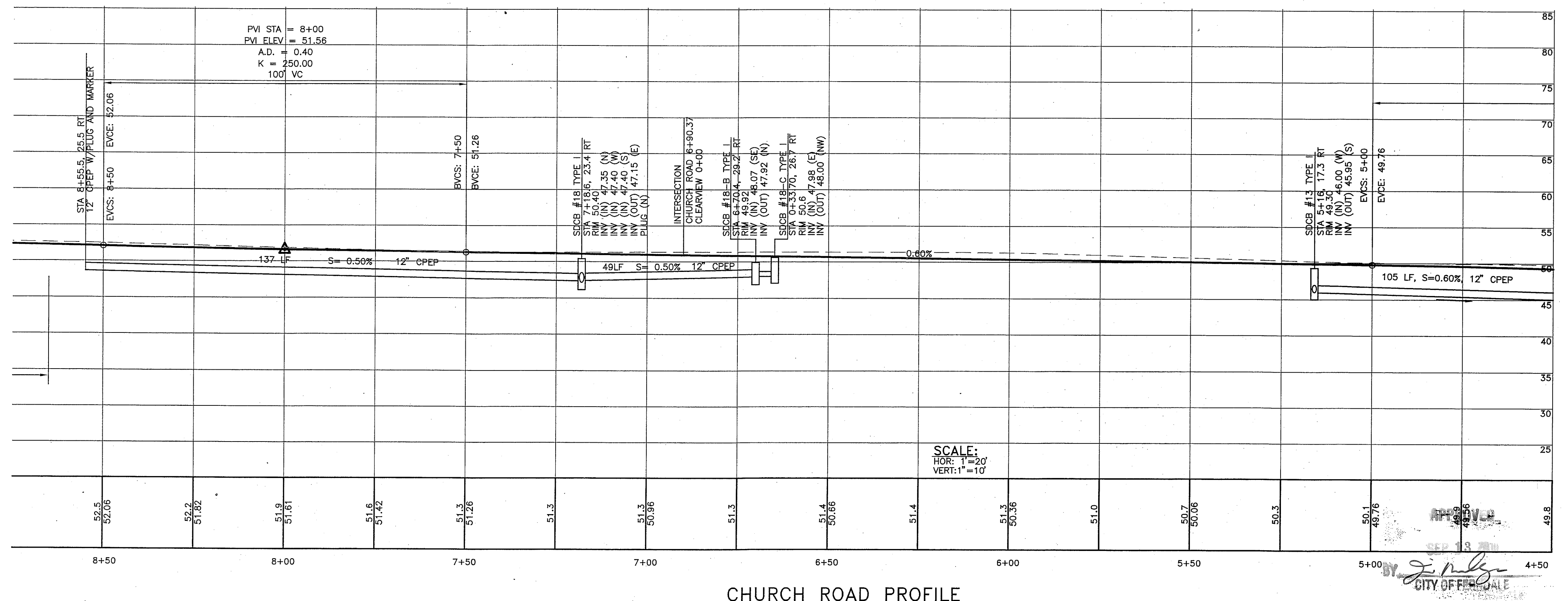
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CERTIFICATE NO. 9361

AS-BUILT



MATCHLINE: SEE SHEET RD-3



MATCHLINE: SEE SHEET RD-1

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
223 CHURCH AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98223
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PREPARED FOR: SOUTH DOUGLAS, LLC
CHURCH ROAD PLAN/PROFILE
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOMB, WASHINGTON

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: RD-2
WO: 05055

REVISIONS
DESIGNED BY: BJW
DRAWN BY: DMK
DATE: 3/22/10
RONALD T. JEPSON
ENGINEER
RCE: 41665
3/22/10
KEY: 1/25/12



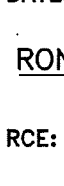
REVISIONS

DESIGNED BY	B
DRAWN BY	D

DATE: _____

RONALD T. JEPSO
ENGINEER

RCE: 41665 3/22

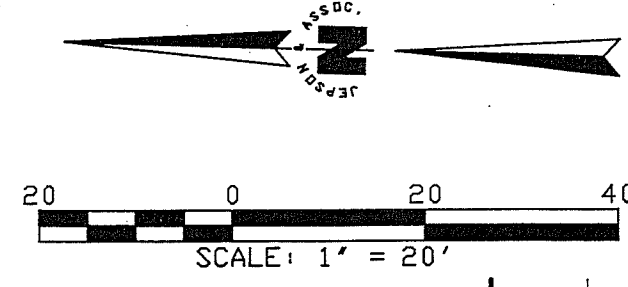


EXPIRATION: 12/31/92

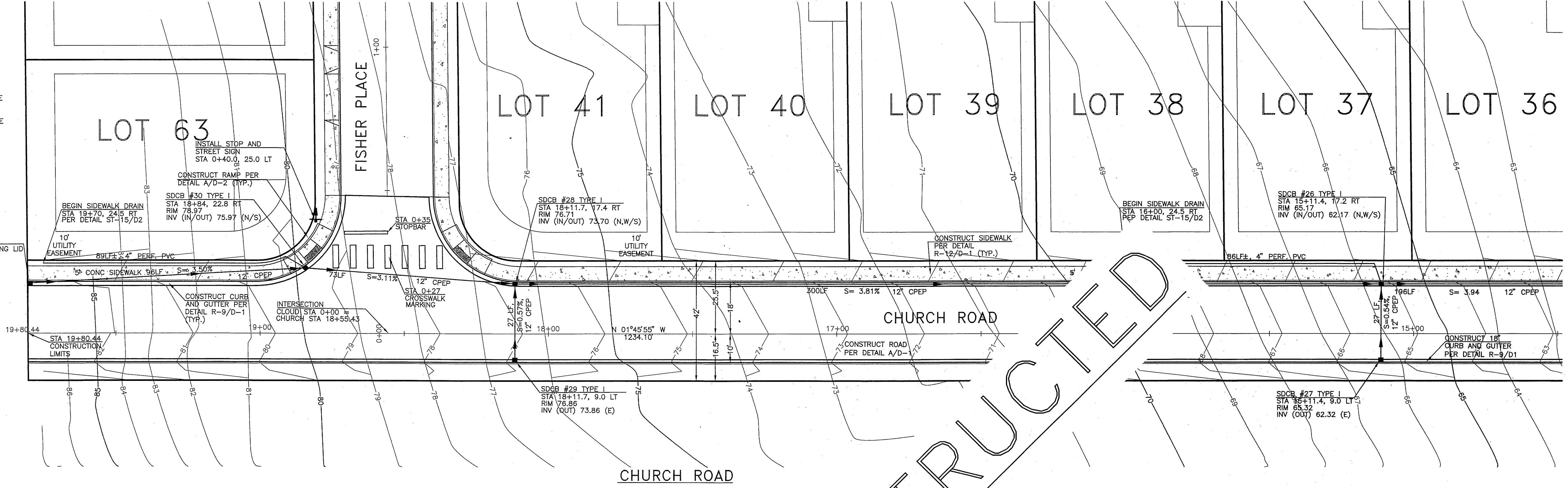
SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	RD-3
WO:	05055

NOTE:

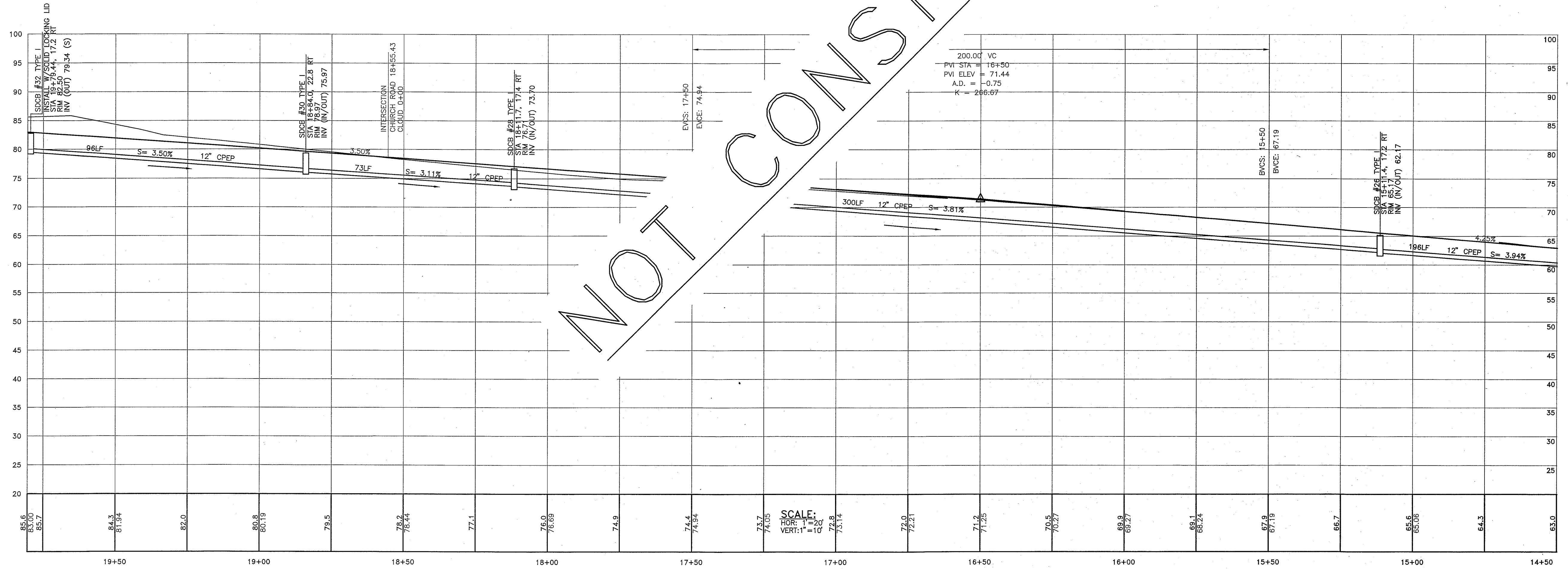
1. ANY FUTURE CONSTRUCTION CONNECTING TO THE DOUGLAS LONG PLAT STORM DRAIN SYSTEM WILL BE RESPONSIBLE FOR ALL REQUIRED STORMWATER CONVEYANCE AND ALL OTHER NECESSARY CALCULATIONS. FURTHERMORE, PERMISSION TO UTILIZE THE DOUGLAS LONG PLAT STORMWATER POND WILL HAVE TO BE NEGOTIATED WITH THE POND OWNER, CURRENTLY SOUTH DOUGLAS LONG PLAT HOMEOWNERS ASSOCIATION.



SDCB #32 TYPE I
INSTALL WITH SOLID LOCKING LID
STA 19+79.44, 17.2 RT
RIM 82.50
INV (OUT) 79.34 (S)



MATCHLINE
SEE SHEET RD-3



CHURCH ROAD PROFILE

MATCHLINE
SEE SHEET RD-3

PREPARED FOR: SOUTH DOUGLAS, LLC
CHURCH ROAD PLAN/PROFILE
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV.1 AND DOUGLAS PLACE LONG PLAT DIV.1
FERDALE, COUNTY OF WHATCOM.
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RONALD T. JEPSON	ENGINEER
RCE:	41665
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SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	RD-4
WO:	05055

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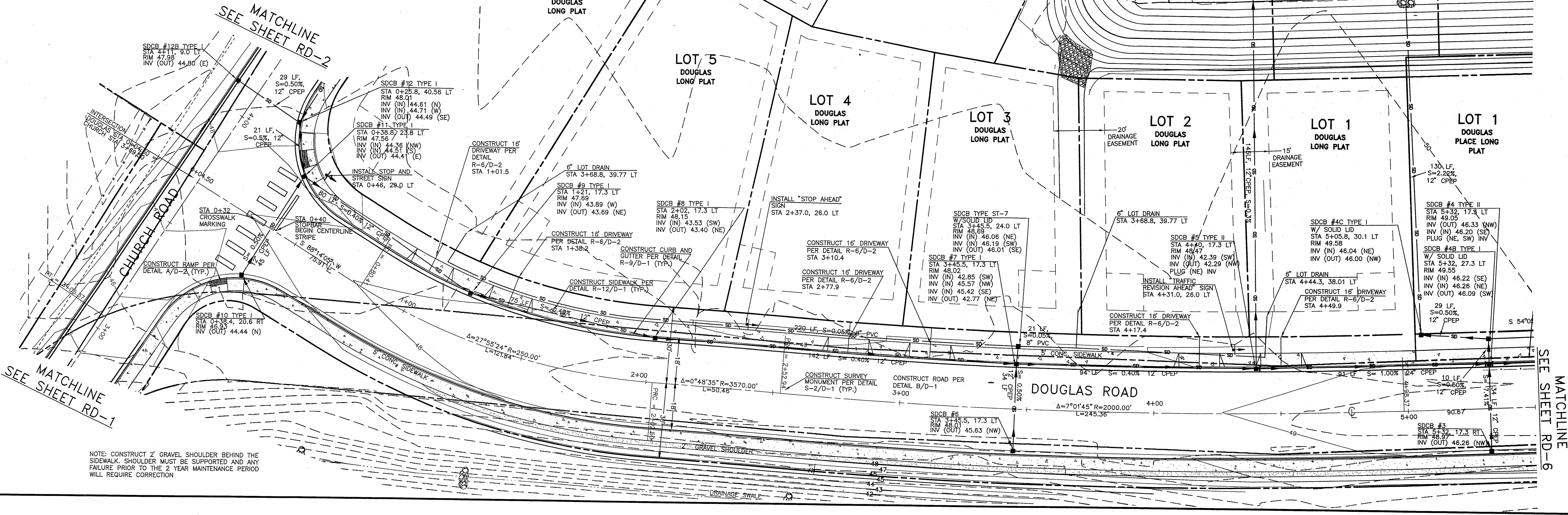
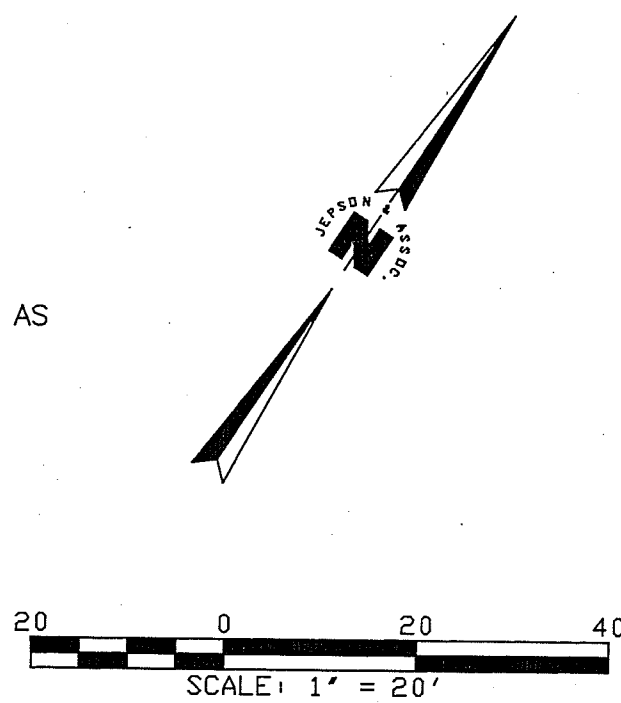
SURVEYOR'S CERTIFICATE

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE

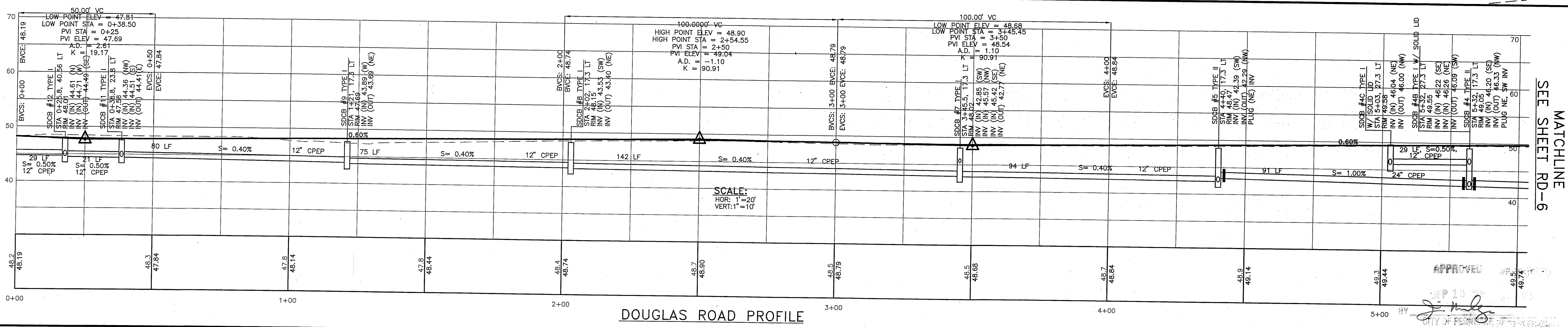
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

AS-BUILT

NOTE: SDCB #4 IS TO HAVE THE SE INVERT PLUGGED AND SDCB #5 IS TO BE CONNECTED TO THE "BIG SKY" PLAT DRAIN SYSTEM ONCE OPERATIONAL



NOTE: CONSTRUCT 2' GRAVEL SHOULDER BEHIND THE SIDEWALK. SHOULDER MUST BE SUPPORTED AND ANY FAILURE PRIOR TO THE 2 YEAR MAINTENANCE PERIOD WILL REQUIRE CORRECTION



REVISIONS

DESIGNED BY	BJW
DRAWN BY	DMK
DATE:	
ENGINEER	RONALD T. JEPSON
RCE:	41665

3/22/10

RONALD T. JEPSON & ASSOC.

CIVIL ENGINEERING - SURVEYING - LAND PLANNING

222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225

360-733-5760 FAX 360-647-8939 WWW.RODALTJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS, LLC

DOUGLAS ROAD PLAN/PROFILE

CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1

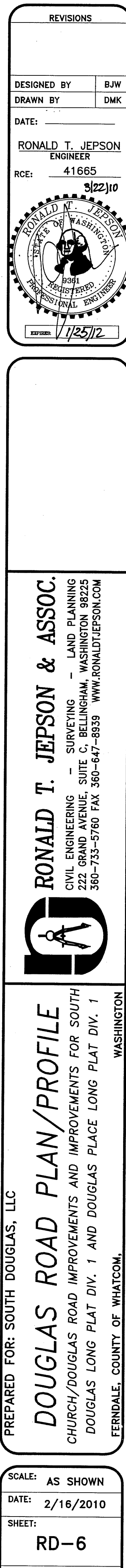
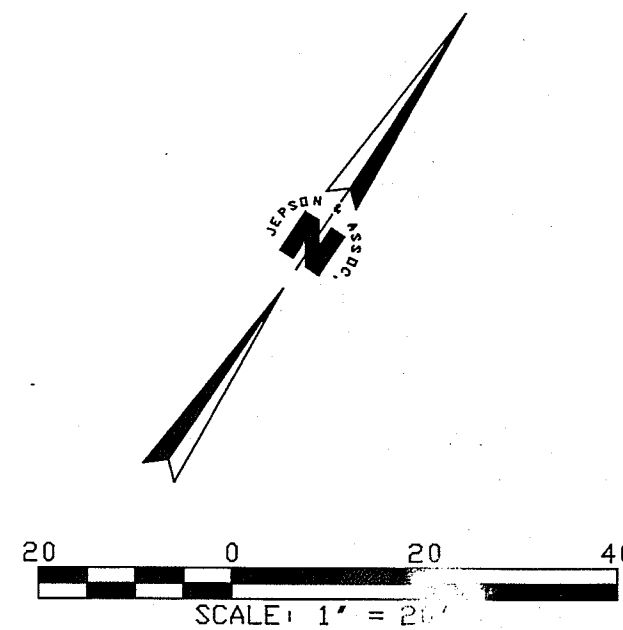
FERNDALE, COUNTY OF WHATCOMB, WASHINGTON

SCALE: AS SHOWN

DATE: 2/16/2010

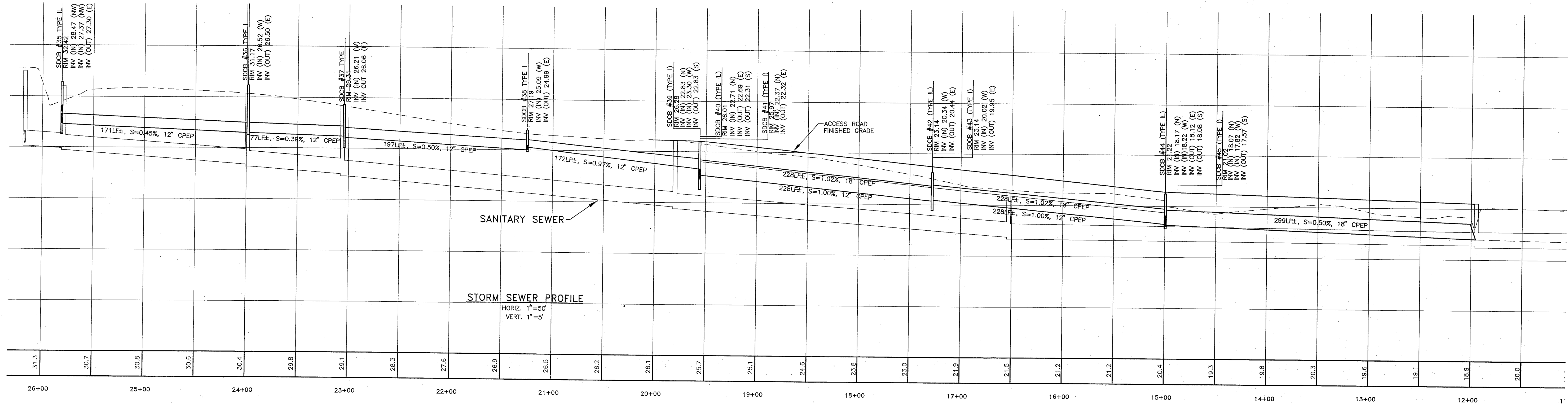
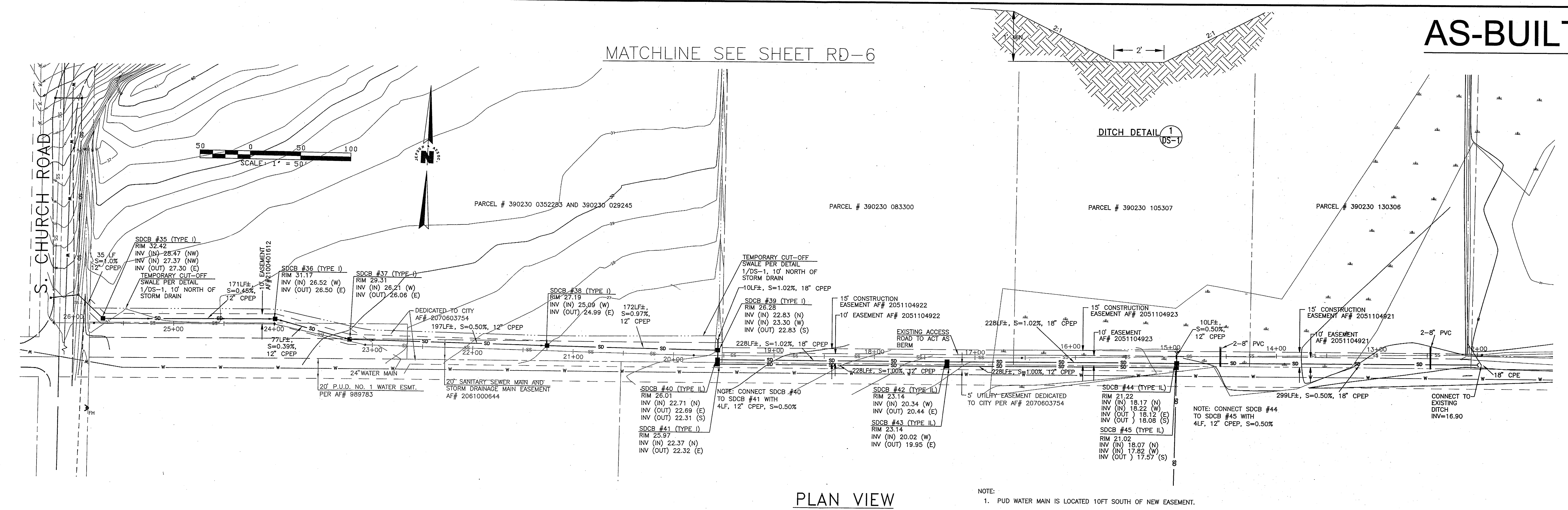
SHEET: RD-5

WO: 05055



C:\Jepson Projects\2005\05055\dwg\PLANS\SHS\as-built\DS-1-AB.DWG - dklein - APR 20, 2010 - 09:50:41

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ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

APPROVED

13
J. T. Jepson

REVISIONS	
DESIGNED BY	BJW
DRAWN BY	DMK
DATE:	
RONALD T. JEPSON ENGINEER	
RCE:	41665
1/25/12	

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-9939 WWW.RODALTJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS LLC / SOUTH CHURCH LLC

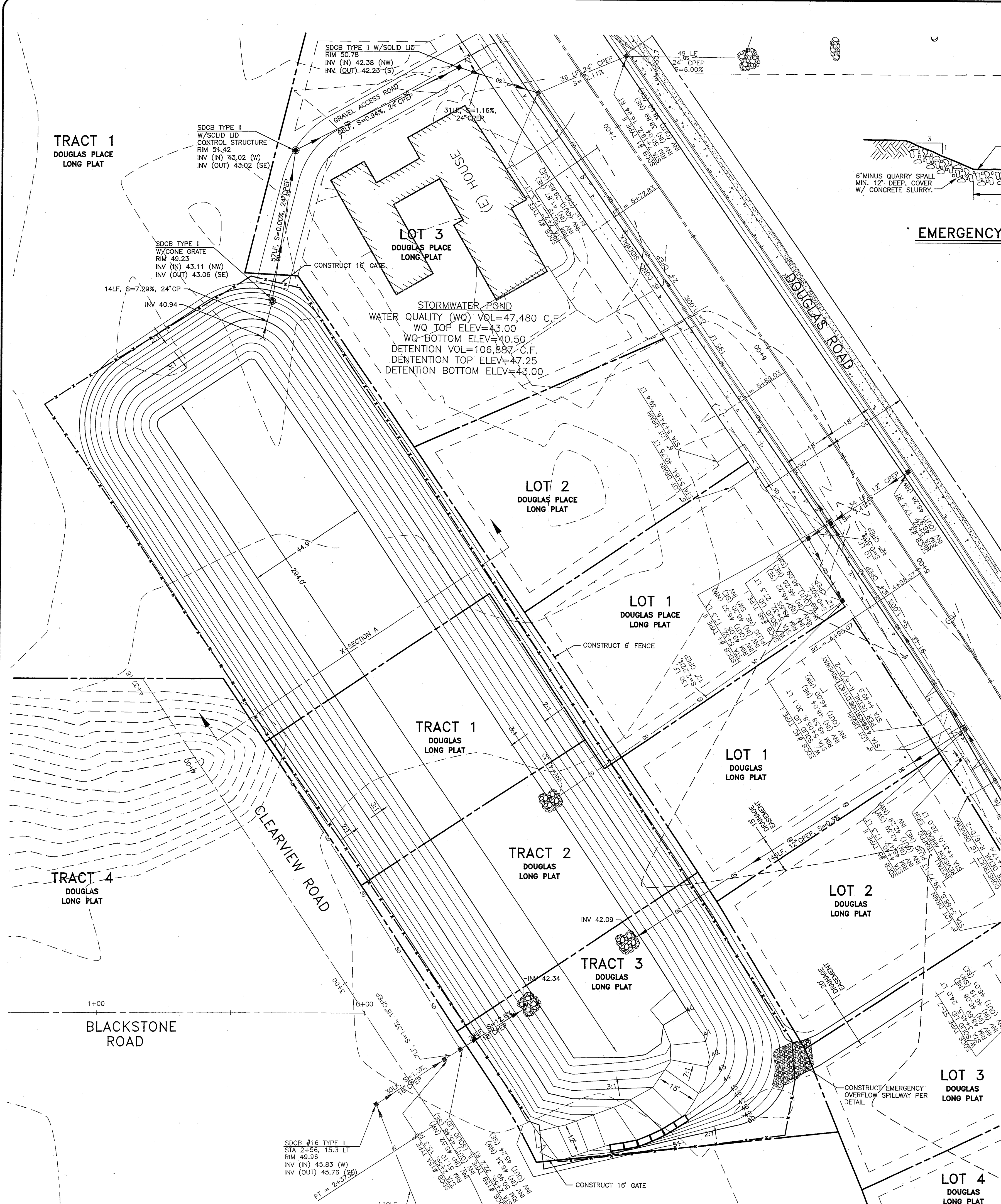
DOWNSTREAM STORM PLAN

CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1

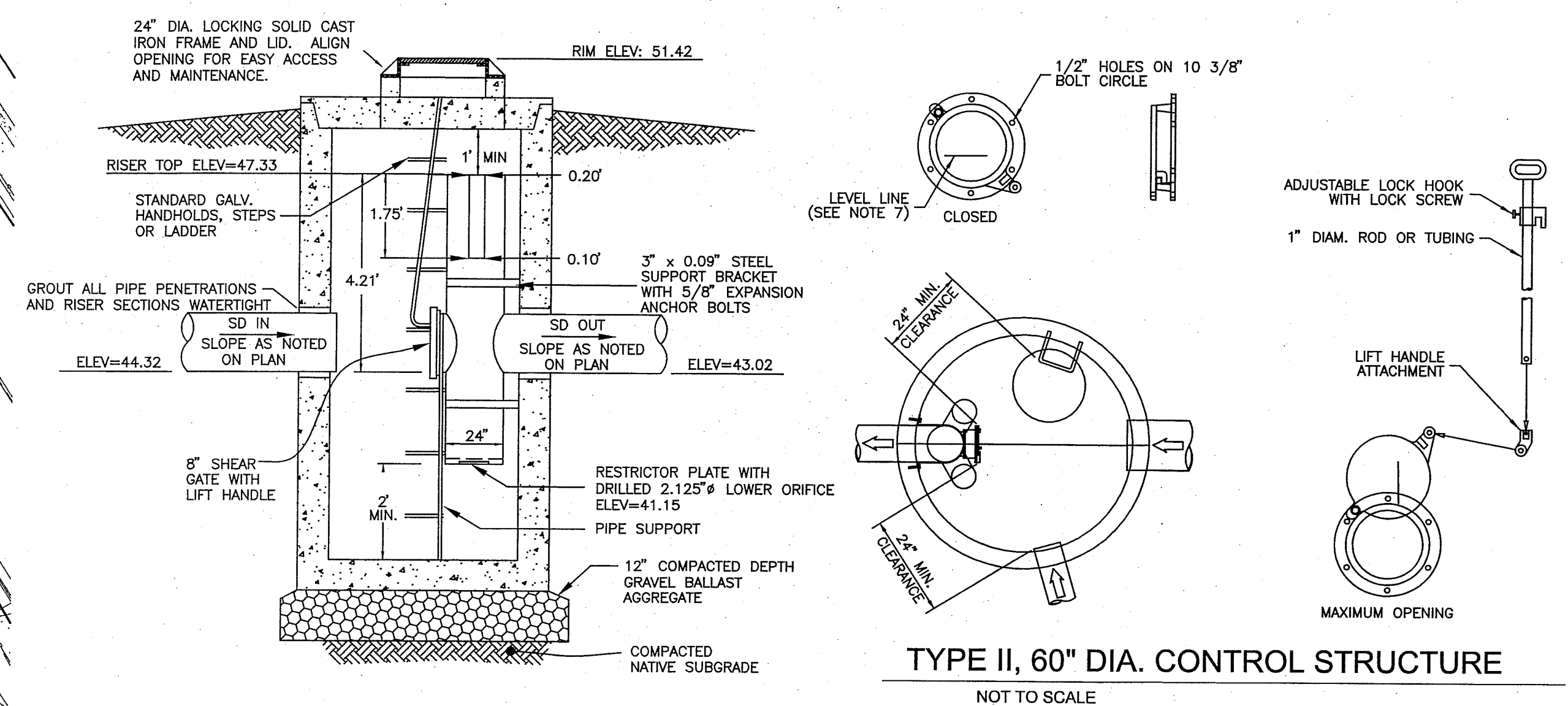
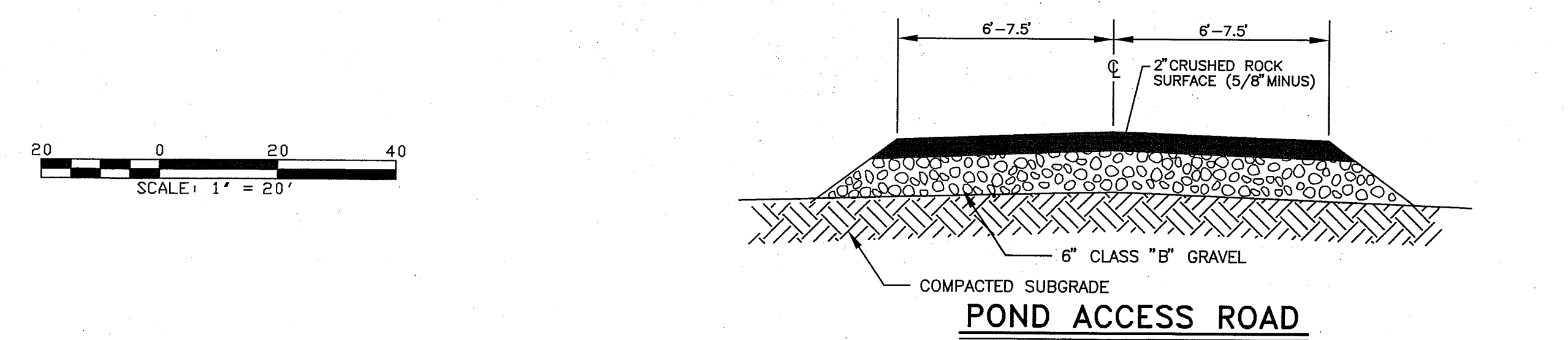
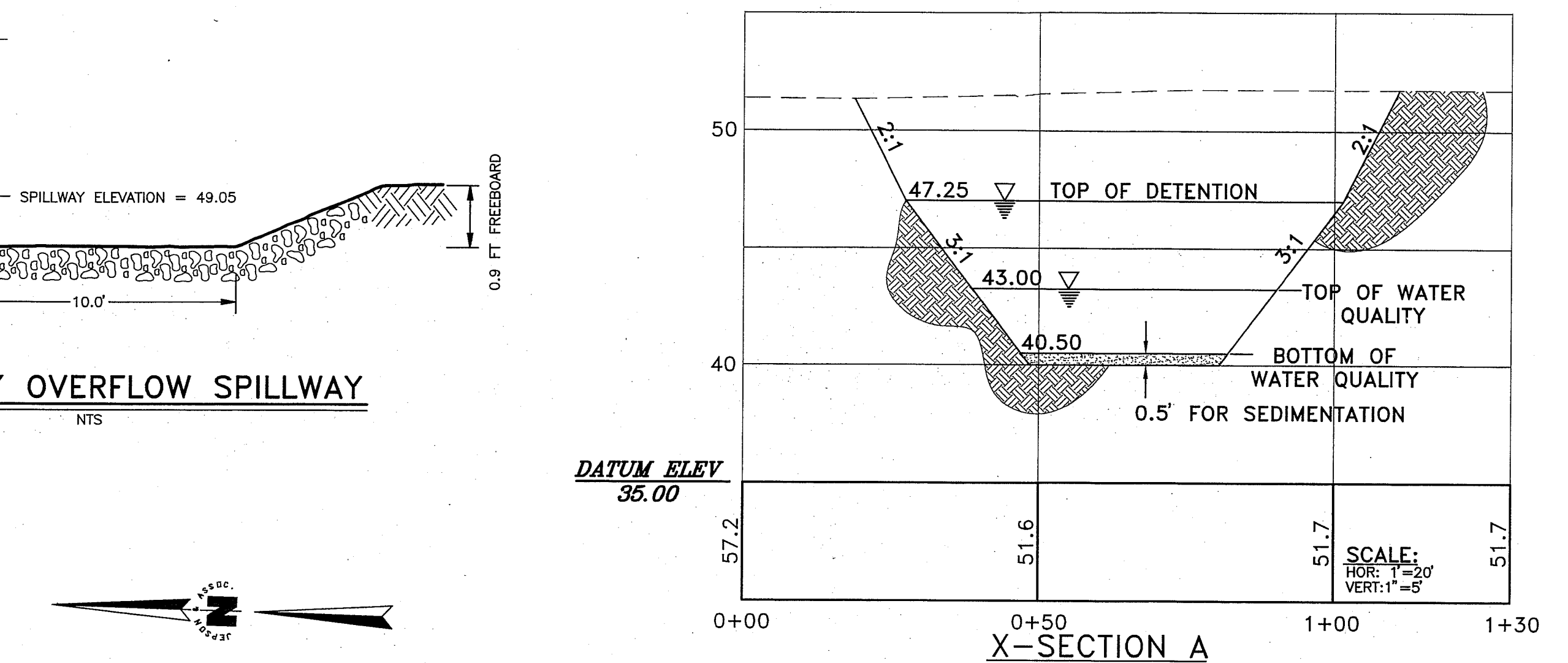
FERNALE, COUNTY OF WHATCOM, WASHINGTON

SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	DS-1
WO:	05055

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AS-BUILT



ENGINEER'S CERTIFICATE

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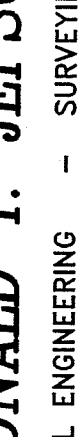
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

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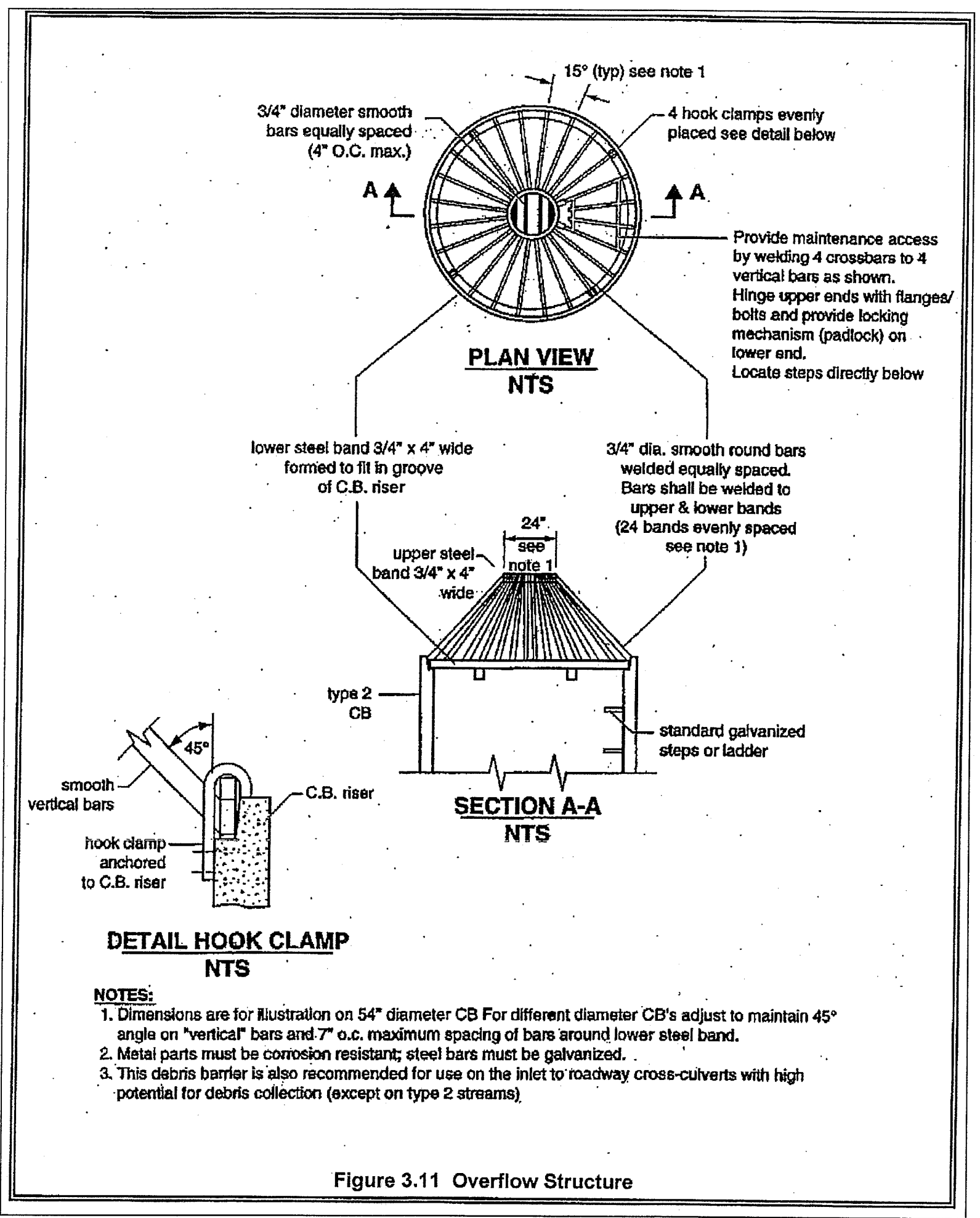
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

REVISIONS	
DESIGNED BY	RTJ
DRAWN BY	BJW
DATE: _____	
RONALD T. JEPSON ENGINEER	
RCE: _____	9361
3/22/10	
	
1/25/12	
RONALD T. JEPSON & ASSOC. CIVIL ENGINEERING — SURVEYING — LAND PLANNING P.O. BOX 10000 — SUITE C, BELLINGHAM, WASHINGTON 98225 360-733-5760 FAX 360-647-4939 WWW.RONALDTJEPSON.COM	
	
PREPARED FOR: SOUTH DOUGLAS LLC / SOUTH CHURCH LLC	WASHINGTON
POND PLAN/SECTION	
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1	
FERDALE, COUNTY OF WHATCOMB.	
SCALE: AS SHOWN	
DATE: 2/16/2010	
SHEET:	
P-1	
WO: _____	05055

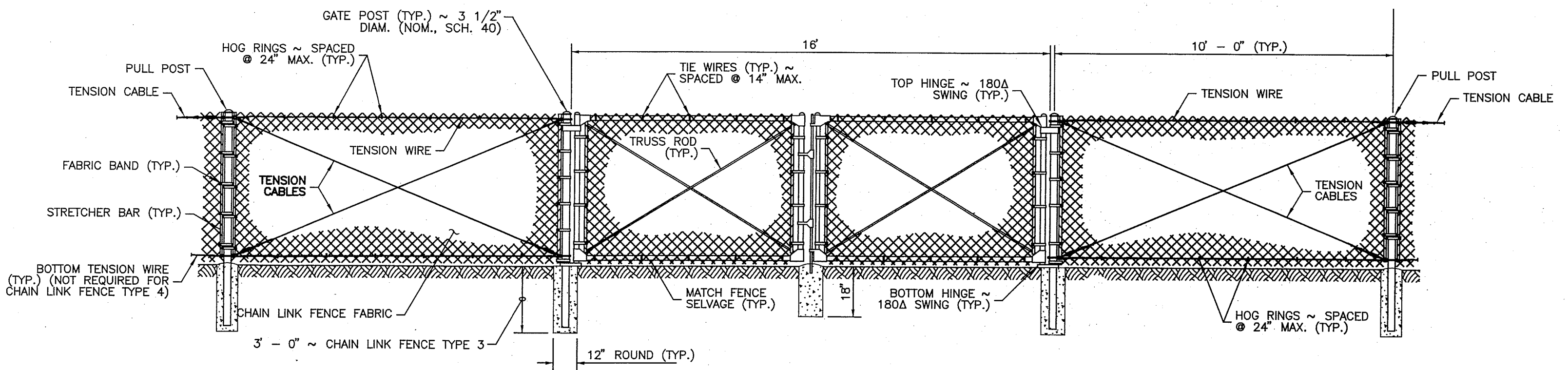
L:\Jepson Projects\2005\05055\dwg\PLANS\SHS\as-built\p-1-AB.DWG -- Klein -- FEB 17, 2010 -- 14:33:19

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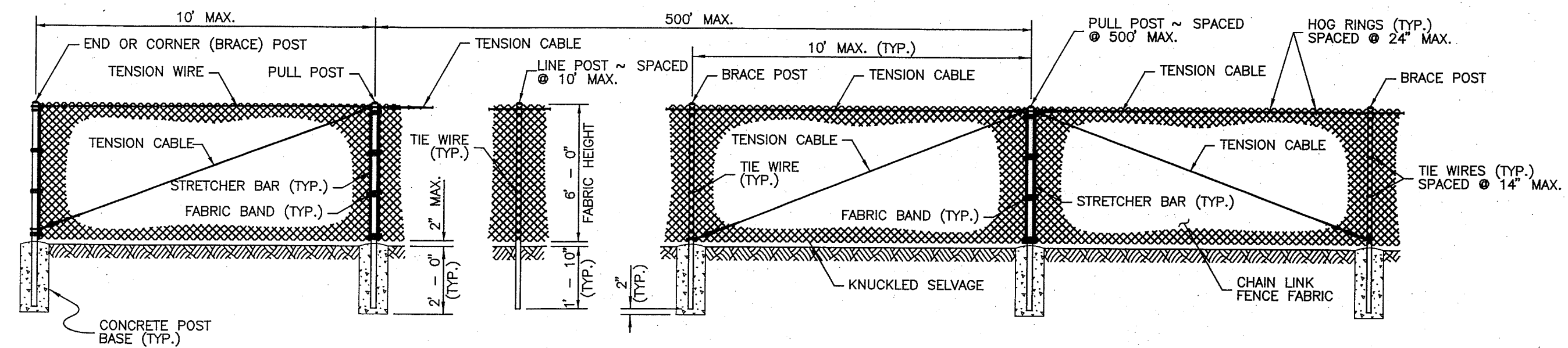
AS-BUILT



CONE GRATE DETAIL
NTS



GATE DETAIL
NTS



CHAINLINK FENCE DETAIL
NTS

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

Ronald T. Jepson
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

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Ronald T. Jepson
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

REVISIONS

DESIGNED BY	RTJ
DRAWN BY	BJW
DATE:	
RONALD T. JEPSON	ENGINEER
RCE:	9361
	3/22/10

1/25/12

RONALD T. JEPSON & ASSOC.

CIVIL ENGINEERING SURVEYING LAND PLANNING

222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225

360-733-5760 FAX 360-647-8939 WWW.RONALDTJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS LLC / SOUTH CHURCH LLC

POND DETAILS

CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1

FERNDALE, COUNTY OF WHATCOM.

SCALE: AS SHOWN

DATE: 2/16/2010

SHEET: P-2

WO: 05055

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ENGINEER'S CERTIFICATE

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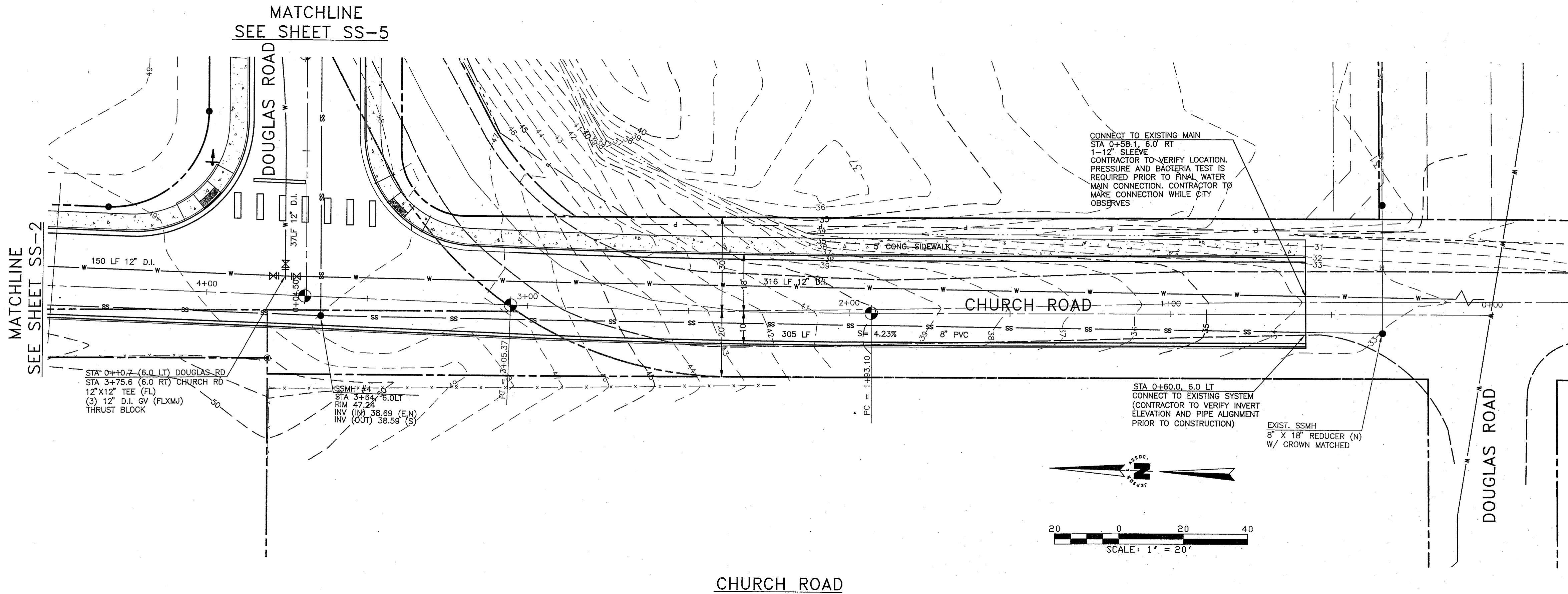
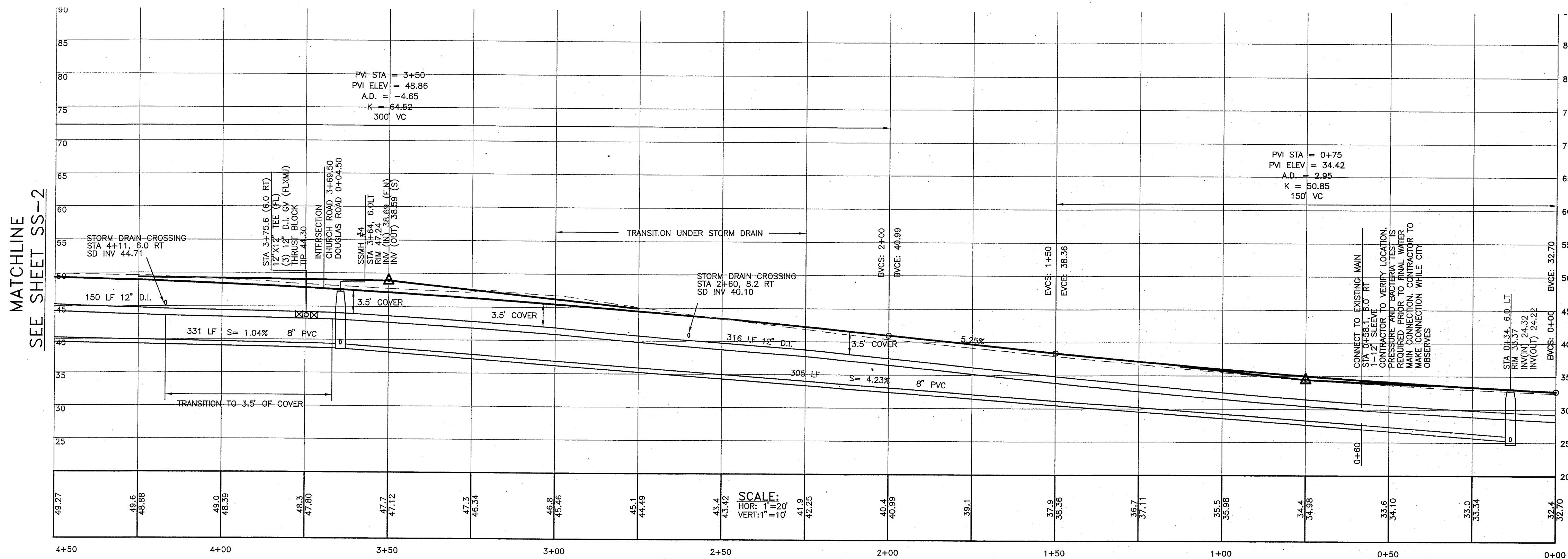
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

CHURCH ROAD PROFILE



AS-BUILT

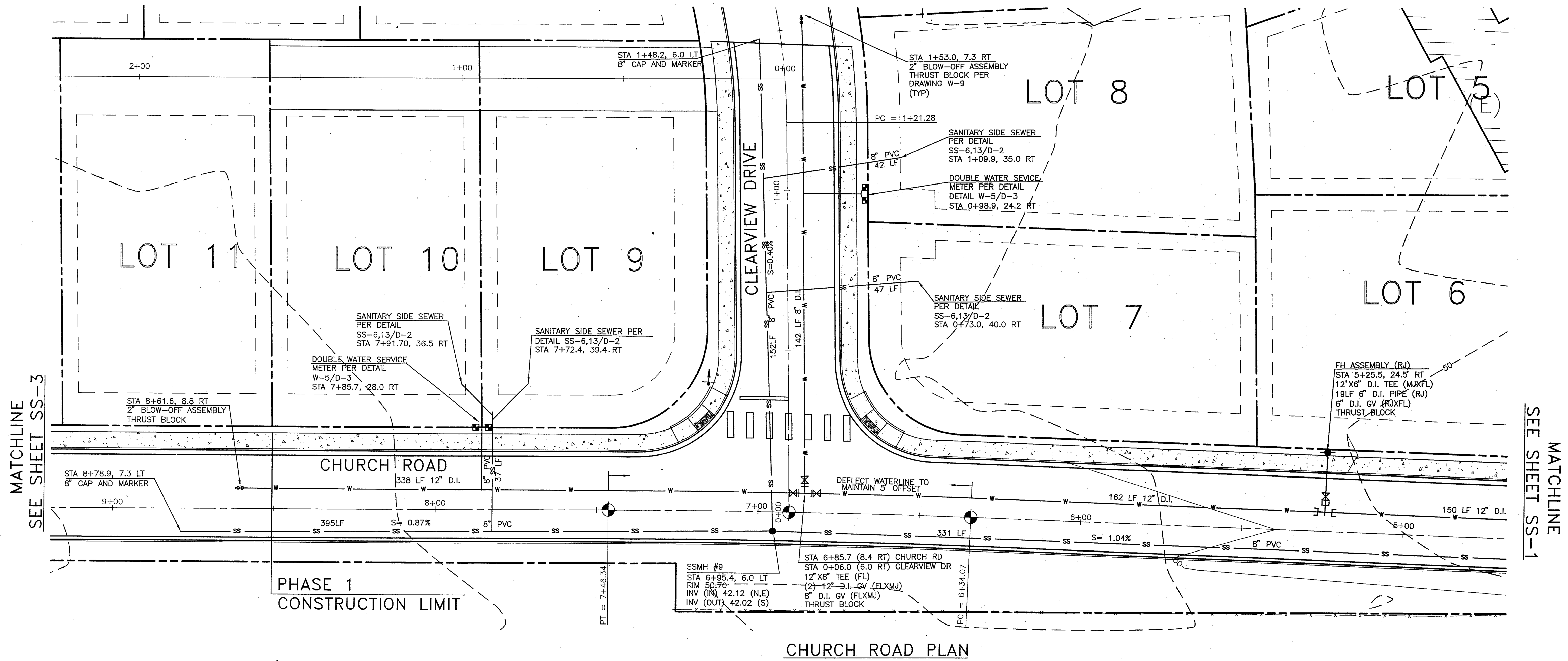
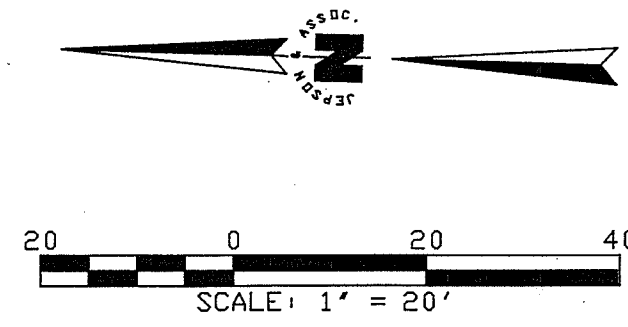
RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C - BELLINGHAM, WASHINGTON 98225
360-733-5780 FAX 360-847-8939 WWW.RODALTJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM, WASHINGTON

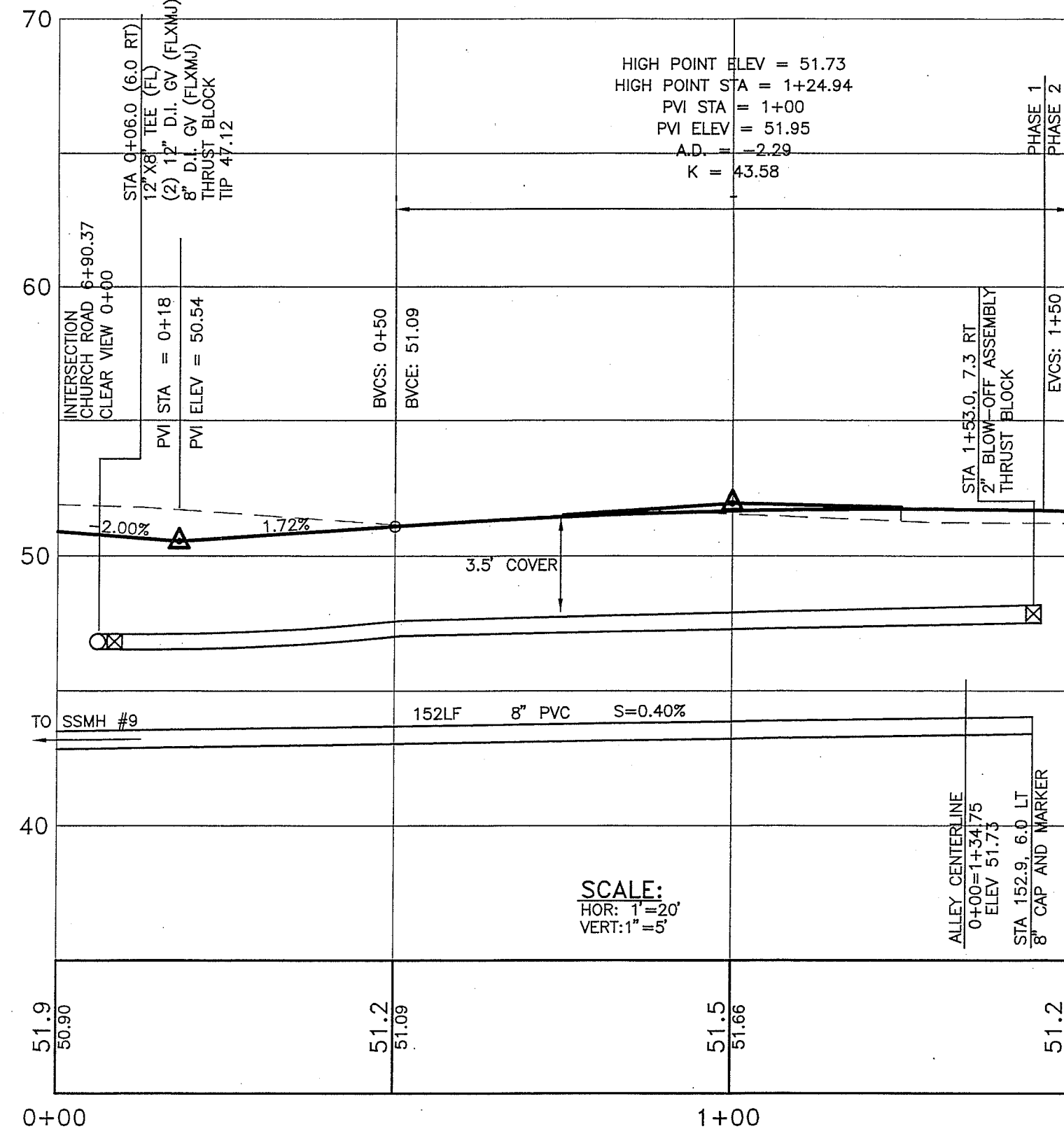
SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	SS-1
WO:	05055

REVISIONS	
DESIGNED BY:	BJW
DRAWN BY:	DMK
DATE:	
ENGINEER:	RONALD T. JEPSON
RCE:	41665
DATE:	8/22/10

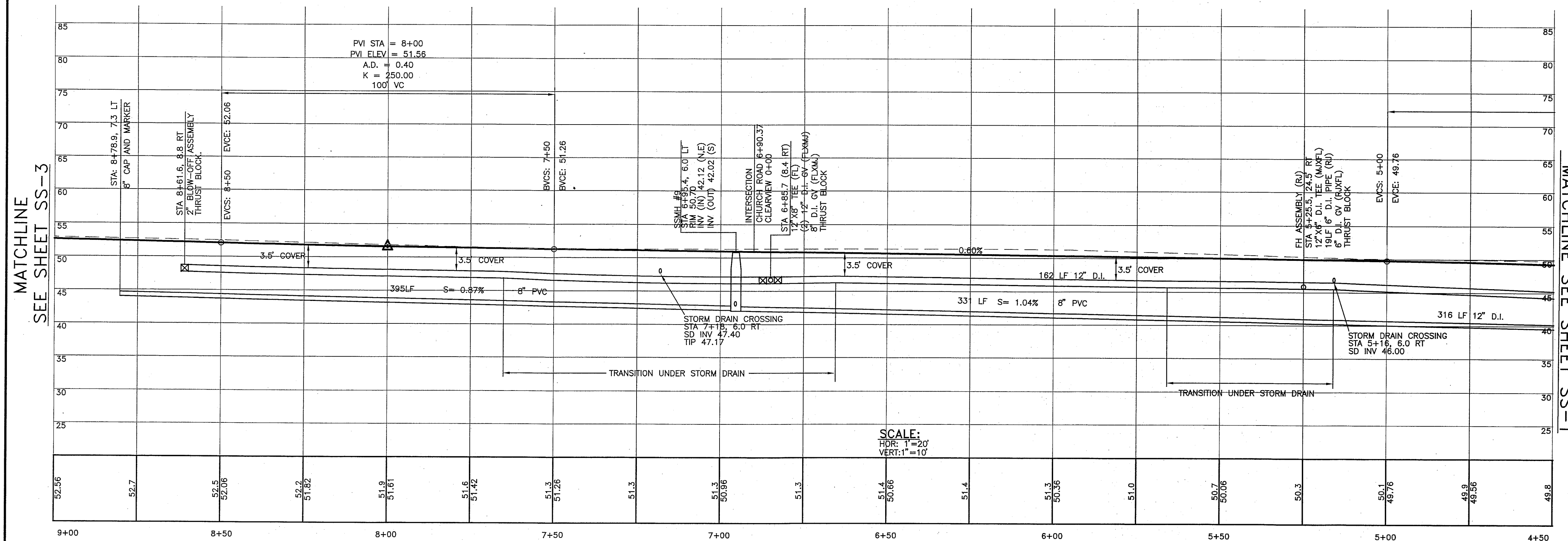
1/25/12



AS-BUILT



CLEARVIEW DRIVE PROFILE



CHURCH ROAD PROFILE

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

REVISIONS	
DESIGNED BY	BJW
DRAWN BY	DMK
DATE:	
RONALD T. JEPSON	ENGINEER
RCE:	41665

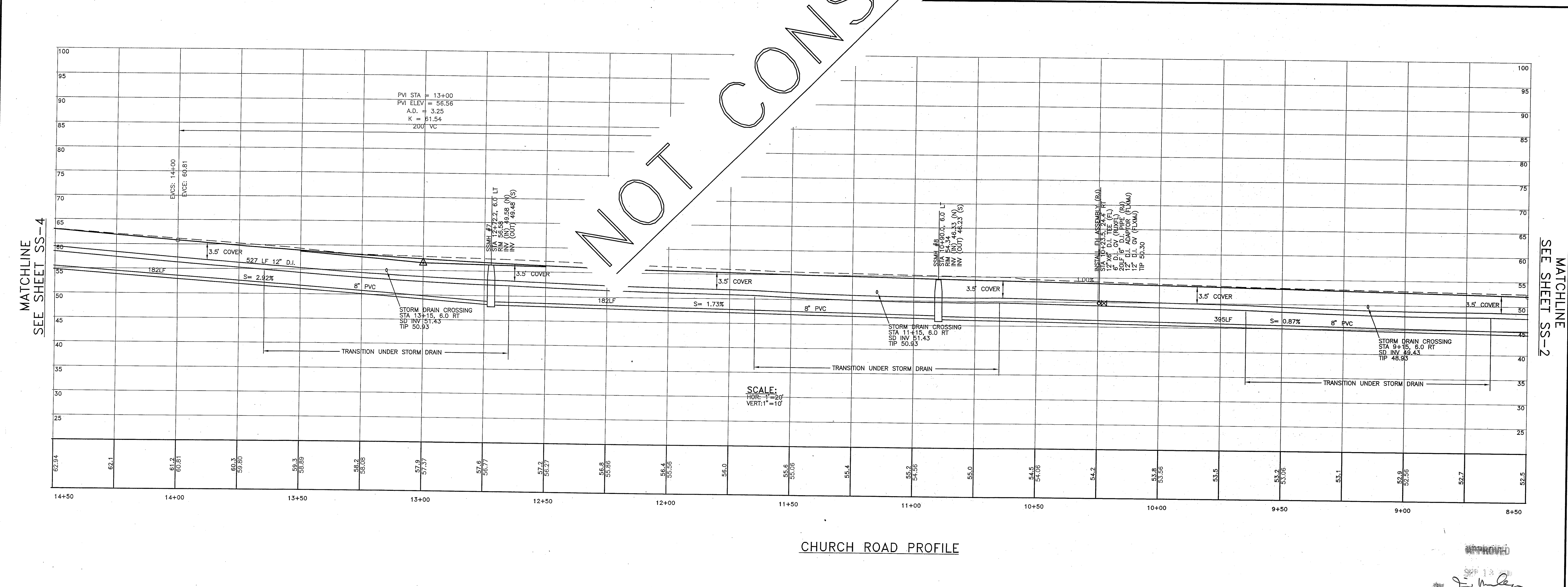
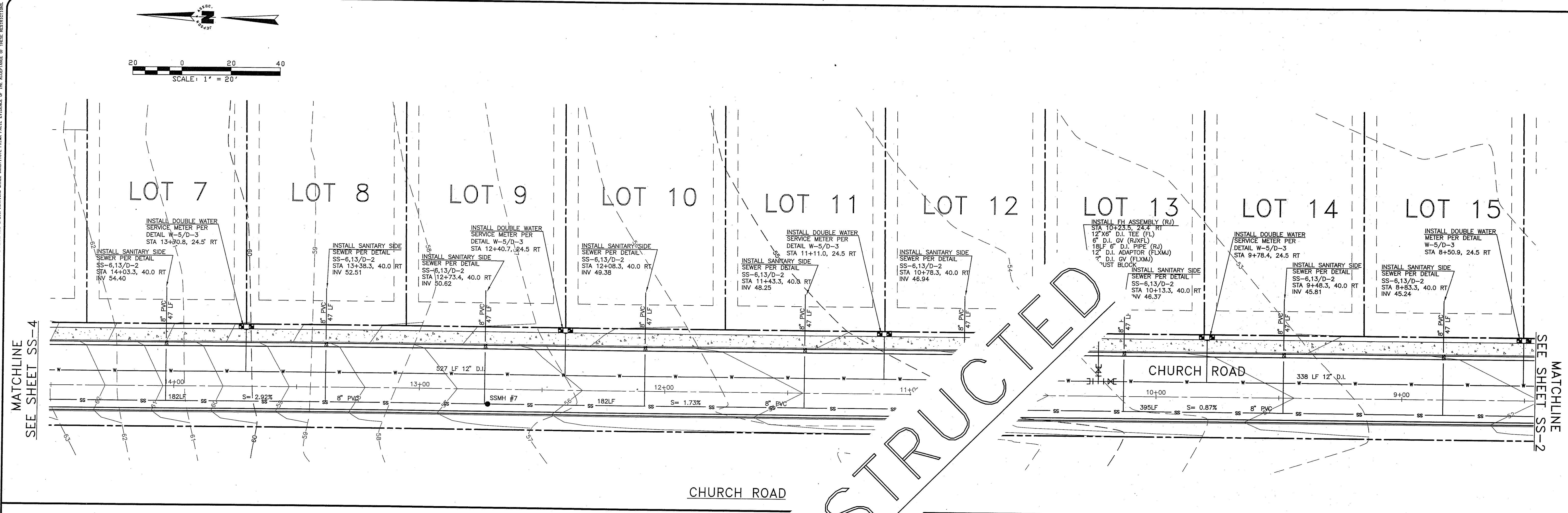
RONALD T. JEPSON & ASSOC.	
CIVIL ENGINEERING	- SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225	
360-733-5760 FAX 360-647-8939 WWW.RONALDJEPSON.COM	

PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOMB, WASHINGTON

SCALE:	AS SHOWN
DATE:	2/16/2010
SHEET:	SS-2
WO:	05055

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DESIGNED BY: BJW
DRAWN BY: DMK
DATE:
RCE: 41665

RONALD T. JEPSON
ENGINEER
1/25/12

REVISIONS

DESIGNED BY: BJW
DRAWN BY: DMK
DATE:
RCE: 41665

RONALD T. JEPSON
ENGINEER
1/25/12

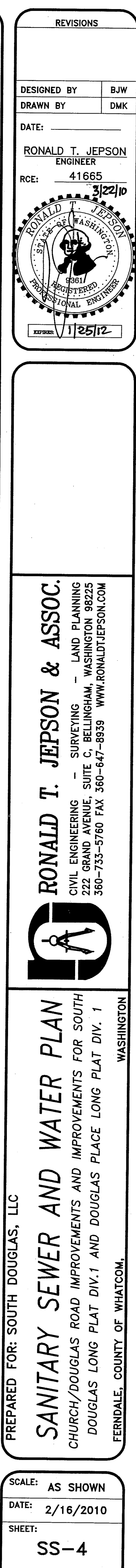
PREPARED FOR: SOUTH DOUGLAS, LLC

SANITARY SEWER AND WATER PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV.1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERDALE, COUNTY OF WHATCOM.

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: SS-3
WO: 05055

APPROVED
J. M. J. J.
J. M. J. J.

00-105-016 03.13.12 S



L:\Jepson Projects\2005\05055\dwg\PLANS\SHS\as-built\c-15-SS5-AB.DWG - dklein - FEB 18, 2010 - 08:20:54

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ENGINEER'S CERTIFICATE

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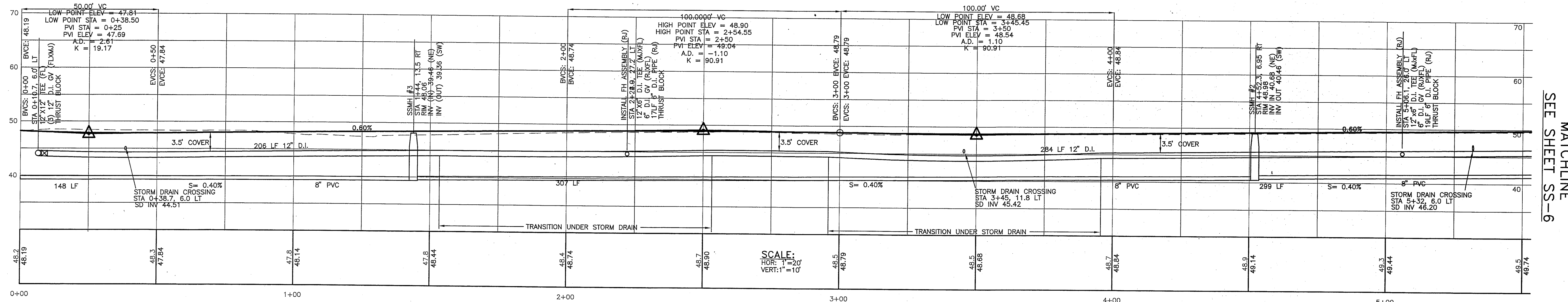
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

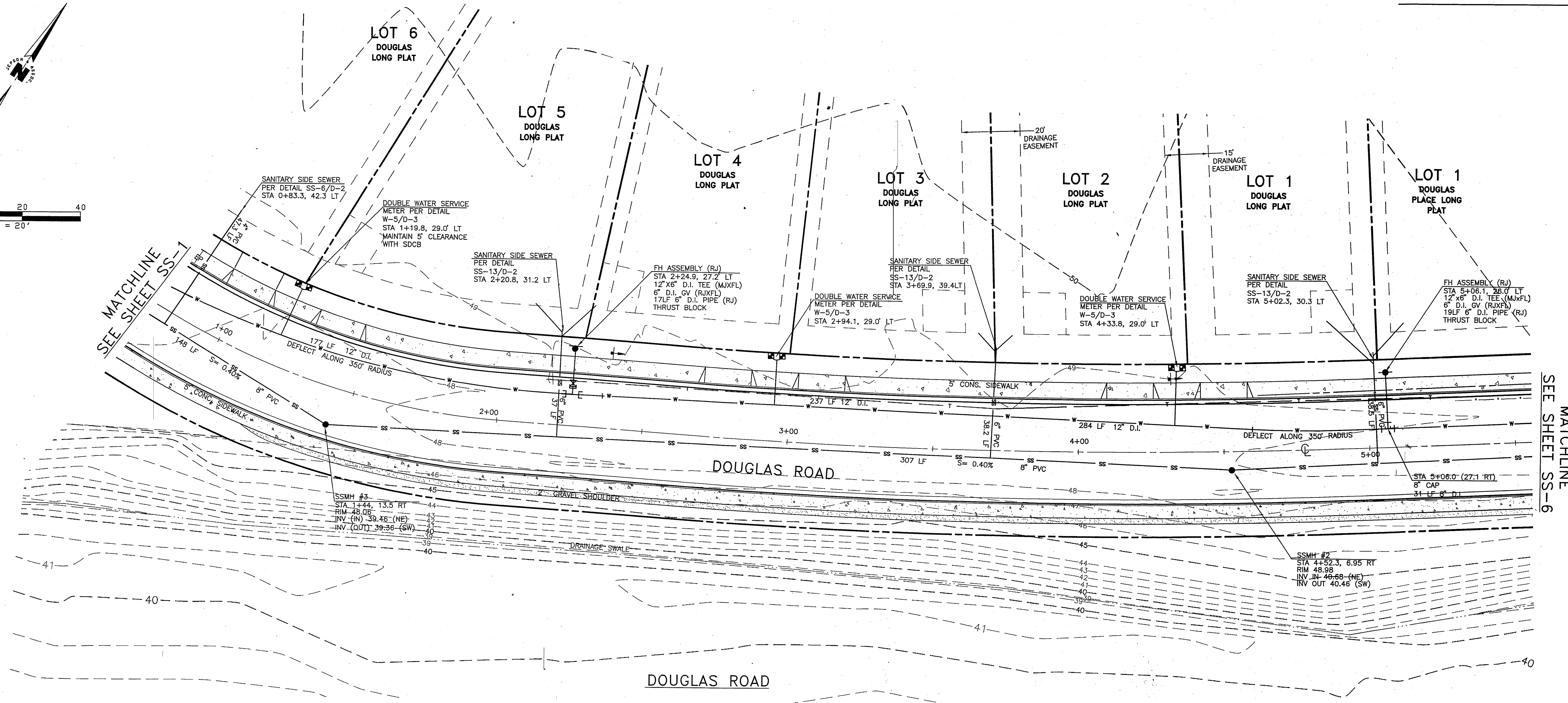
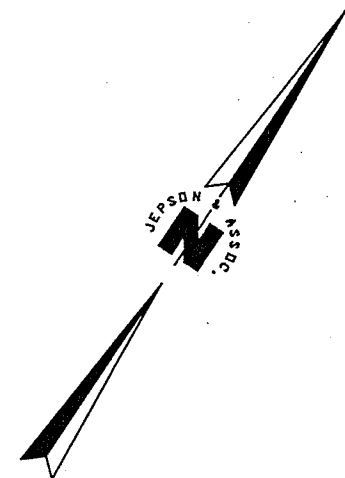
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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

DOUGLAS ROAD PROFILE



SCALE: 1" = 20'



AS-BUILT

PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM.

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8835 WWW.RONALDJEPSON.COM

REVISIONS

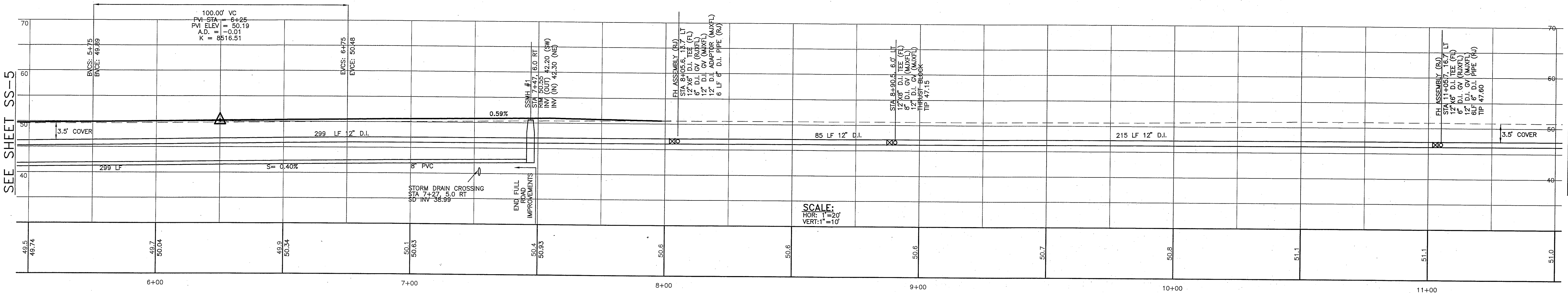
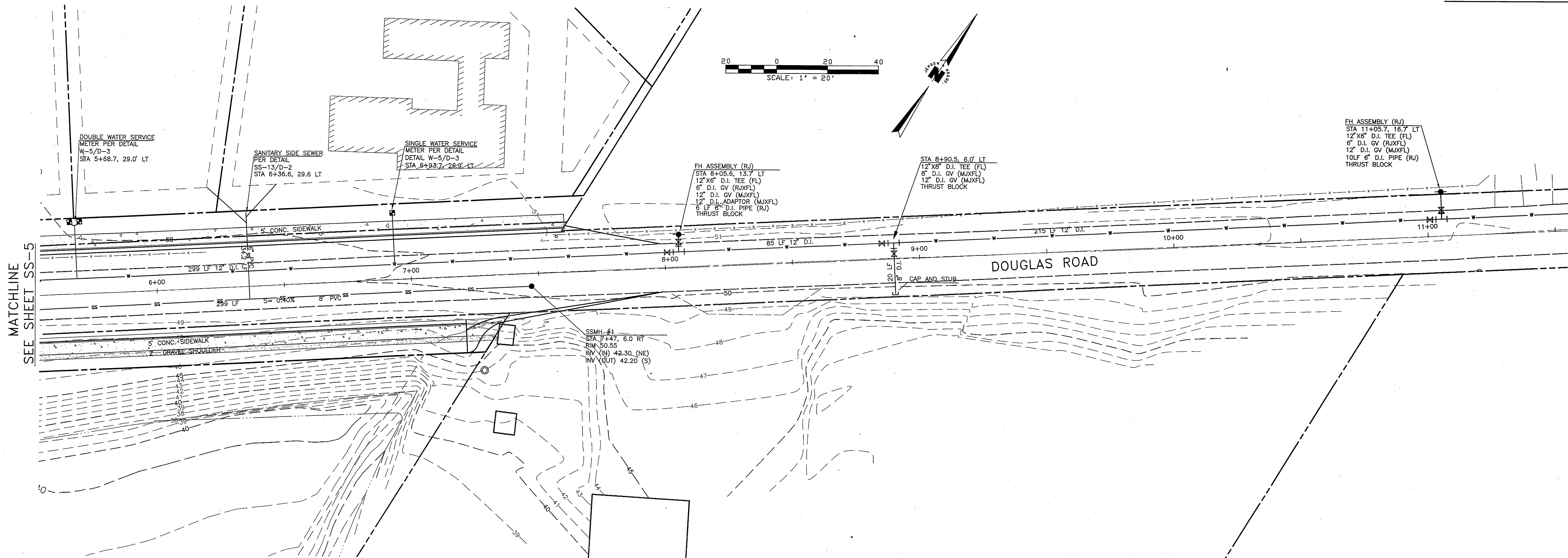
DESIGNED BY	BJW
DRAWN BY	DMK
DATE:	
ENGINEER	RONALD T. JEPSON
RCE:	41665

1/25/12

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: SS-5
WO: 05055

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THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.



ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

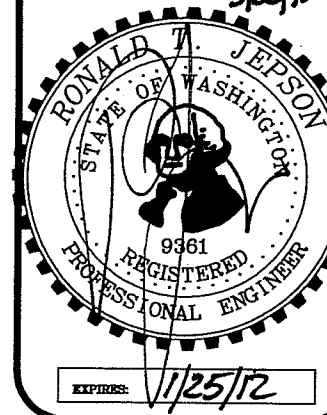
"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

AS-BUILT

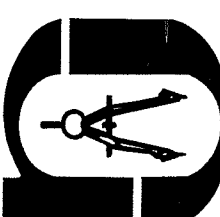
REVISIONS

DESIGNED BY BJW
DRAWN BY DMK
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 41665



RONALD T. JEPSON & ASSOC.

CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.RONALDTJEPSON.COM



PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN

CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDAL, COUNTY OF WHATCOM, WASHINGTON

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: SS-6
WO: 05055

L:\Jepson Projects\2005\05055\dwg\PLANS\SHS as-built\17-SS7-AB.DWG - dklein - FEB 18, 2010 - 09:18:04

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE VIOLATION OF THESE RESTRICTIONS.

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

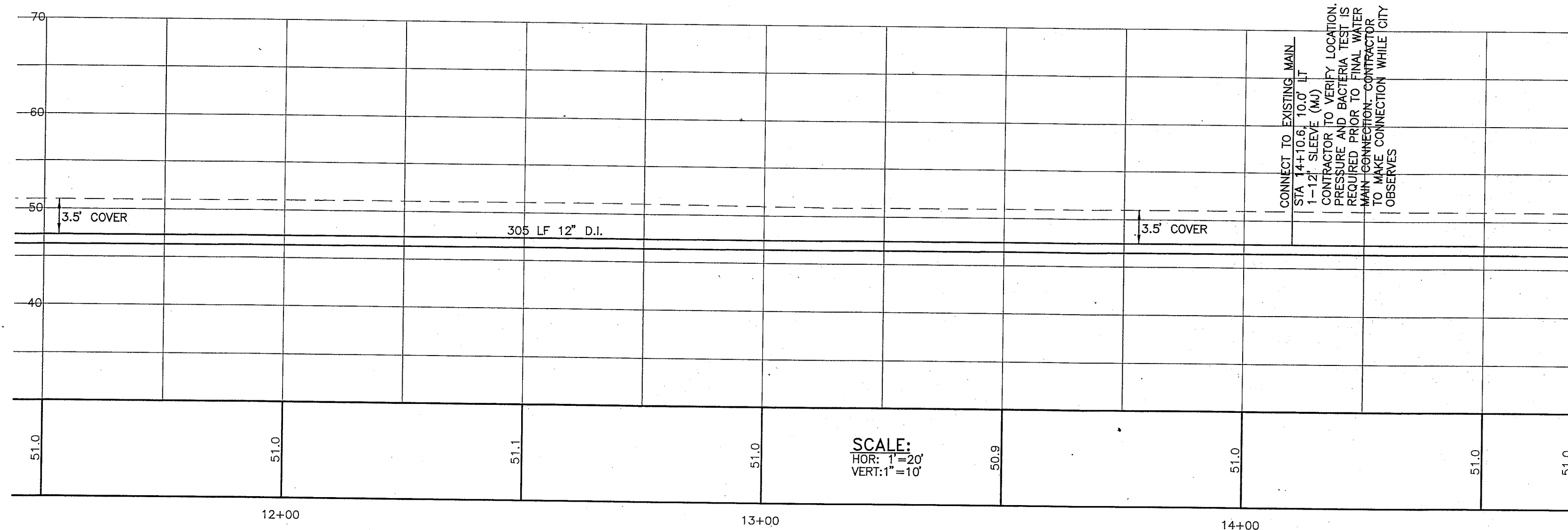
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE

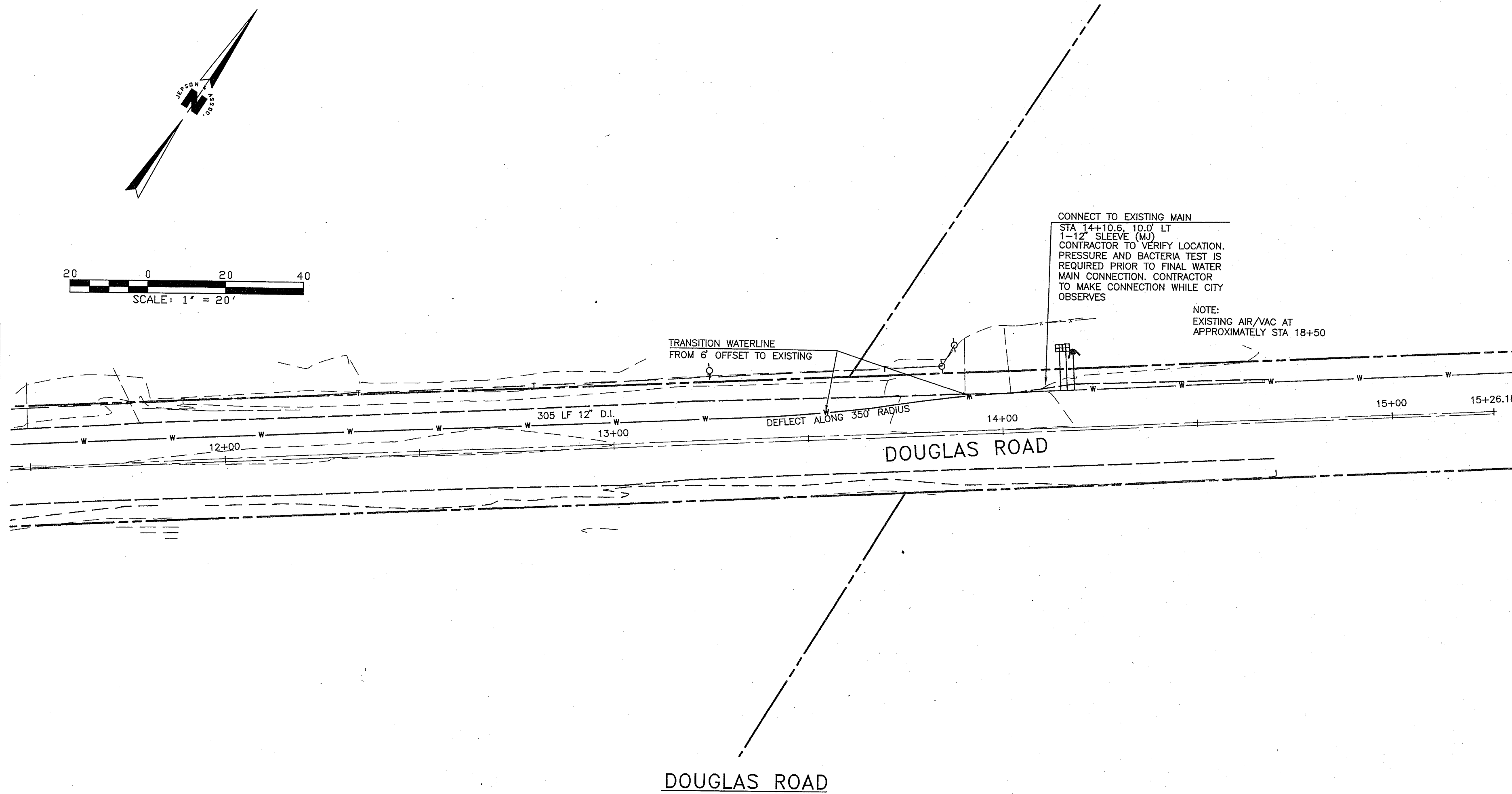
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

MATCHLINE
SEE SHEET SS-6



DOUGLAS ROAD PROFILE

MATCHLINE
SEE SHEET SS-6



AS-BUILT

PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM, WASHINGTON

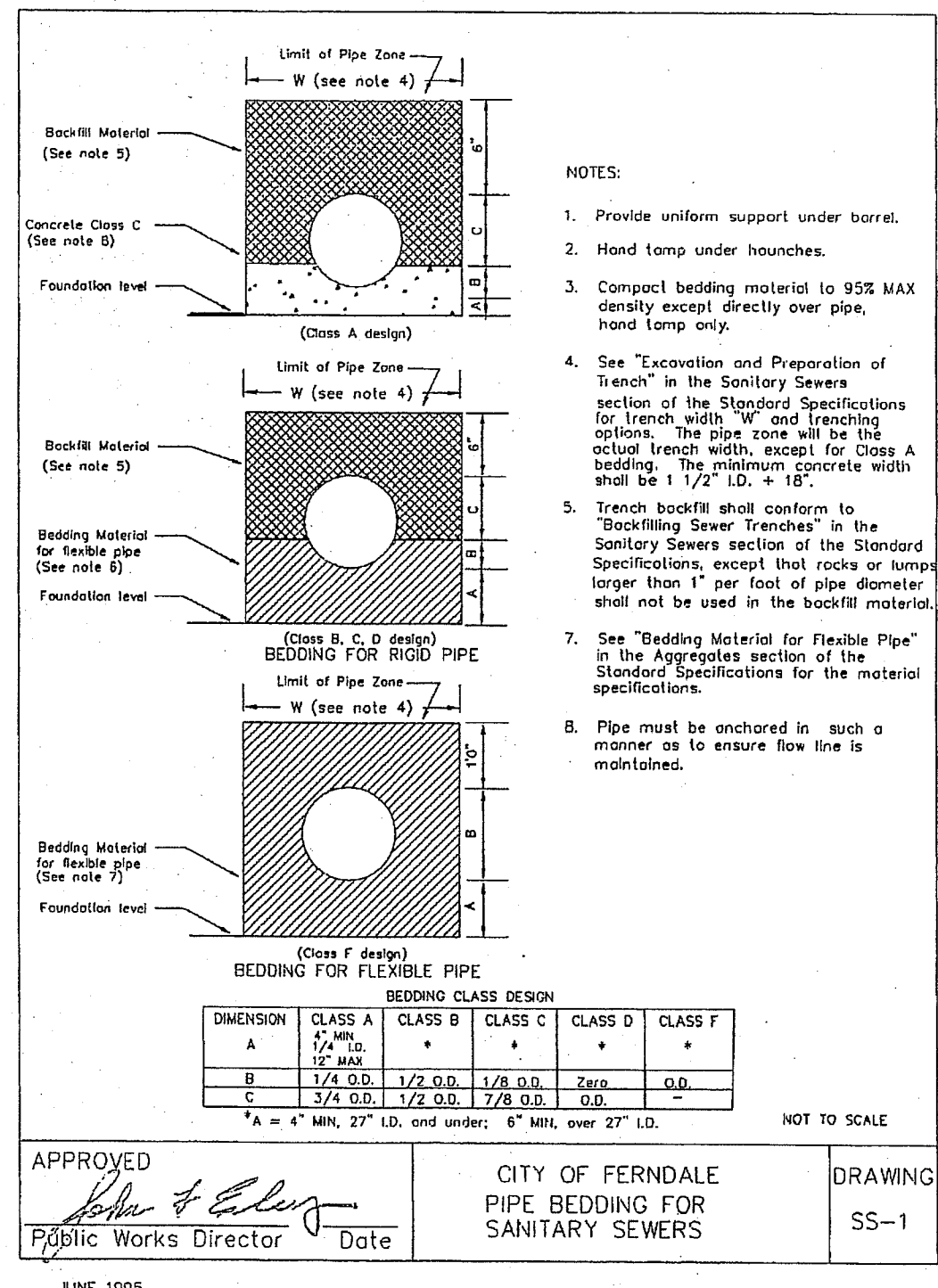
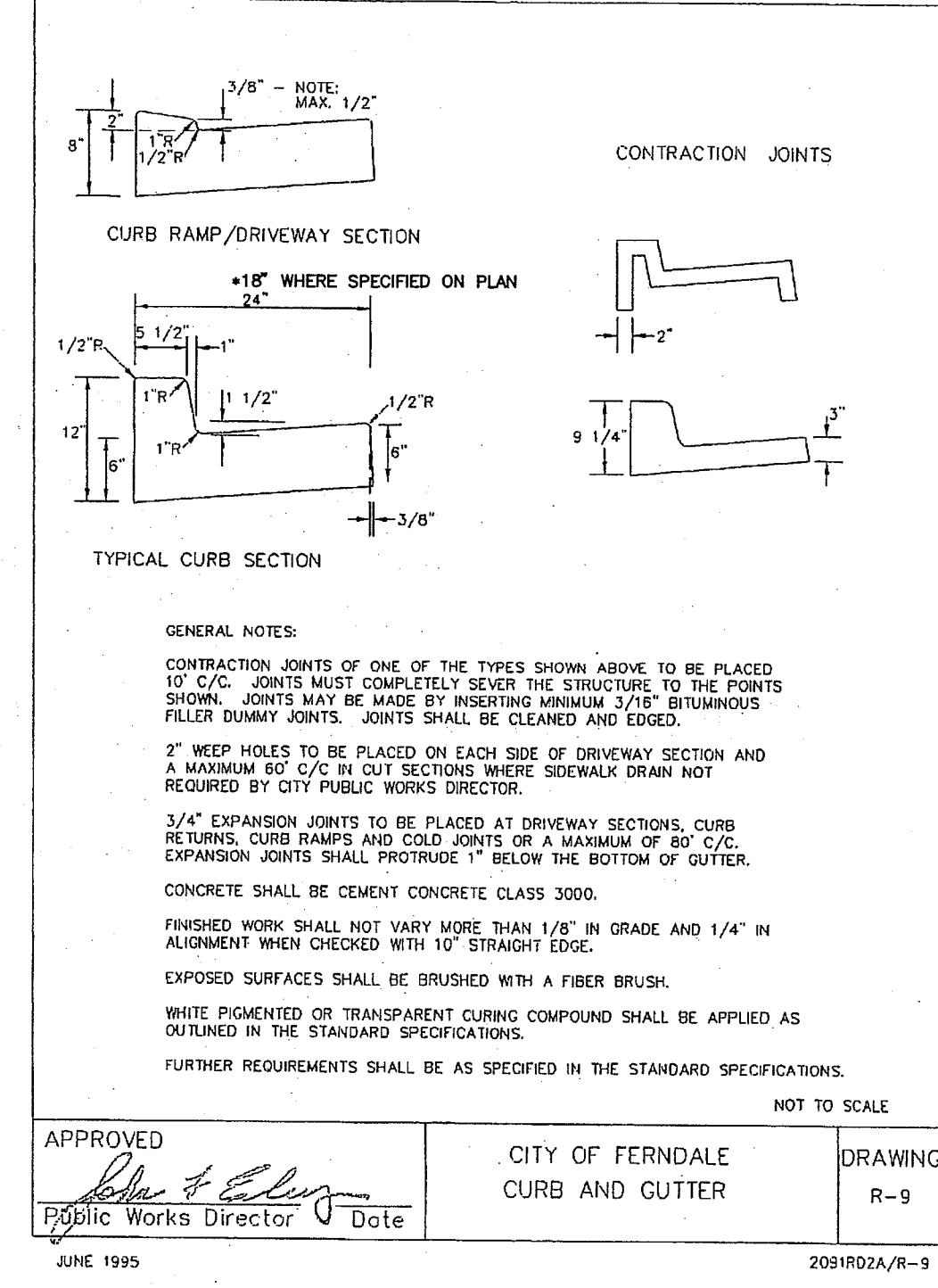
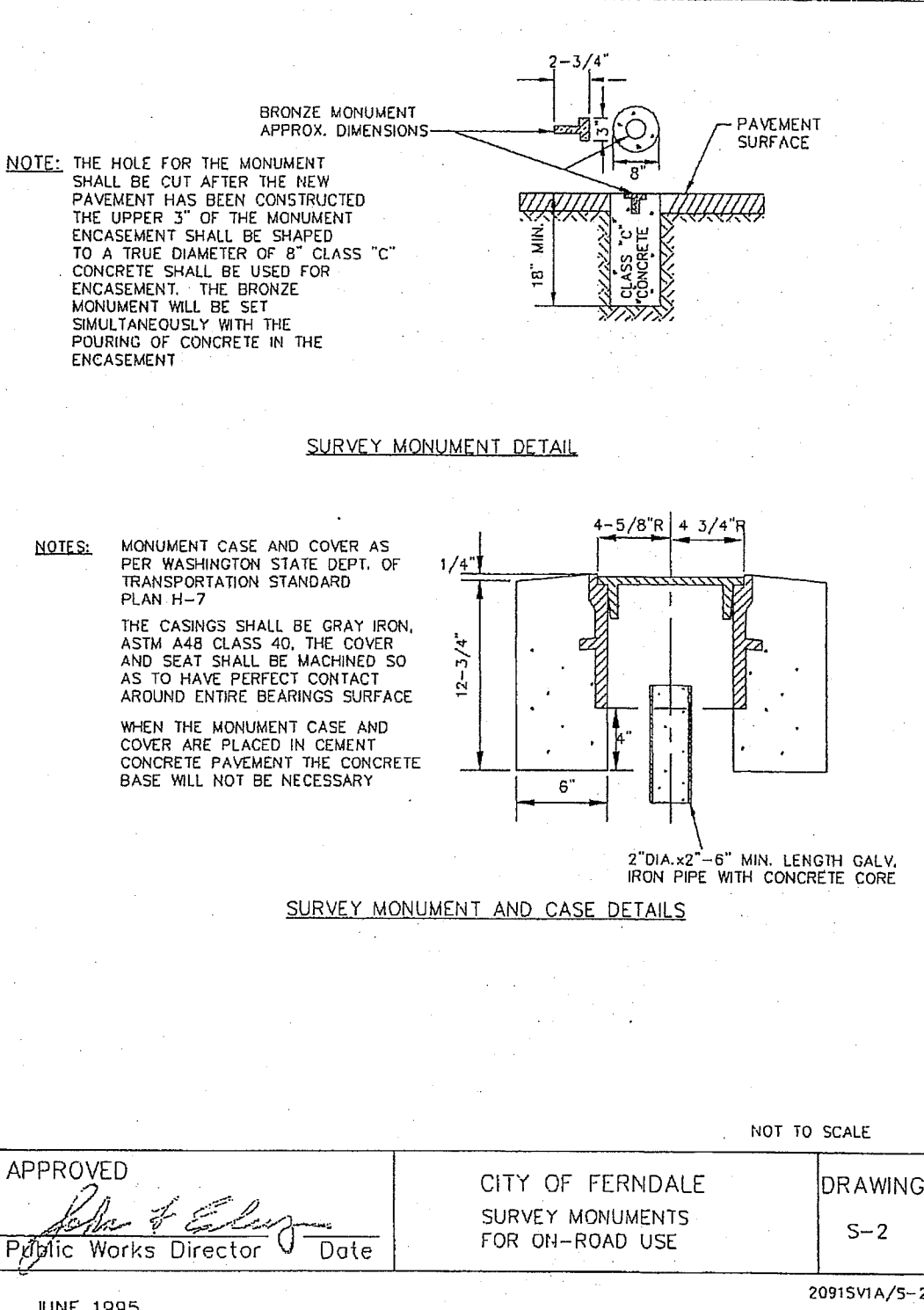
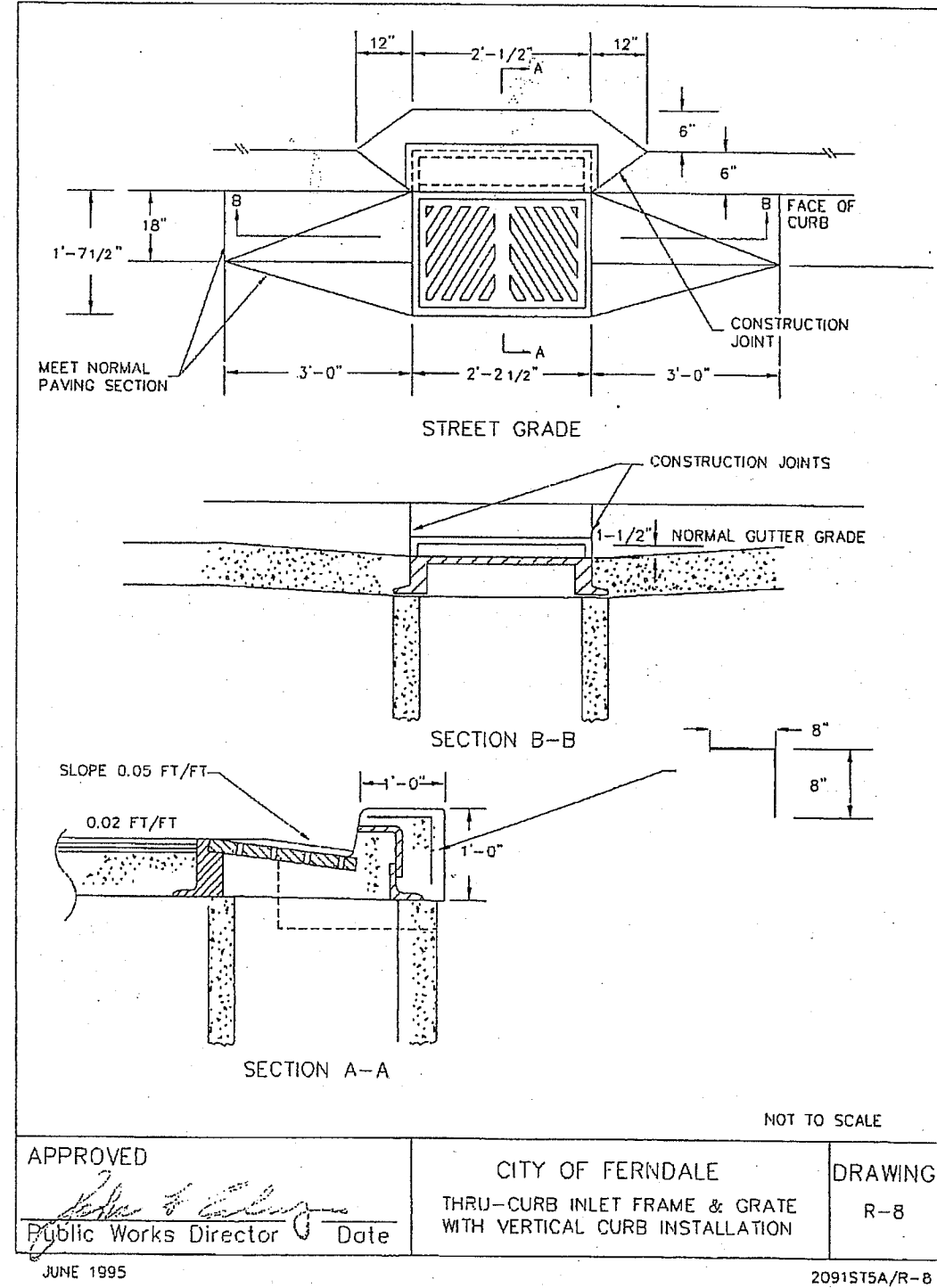
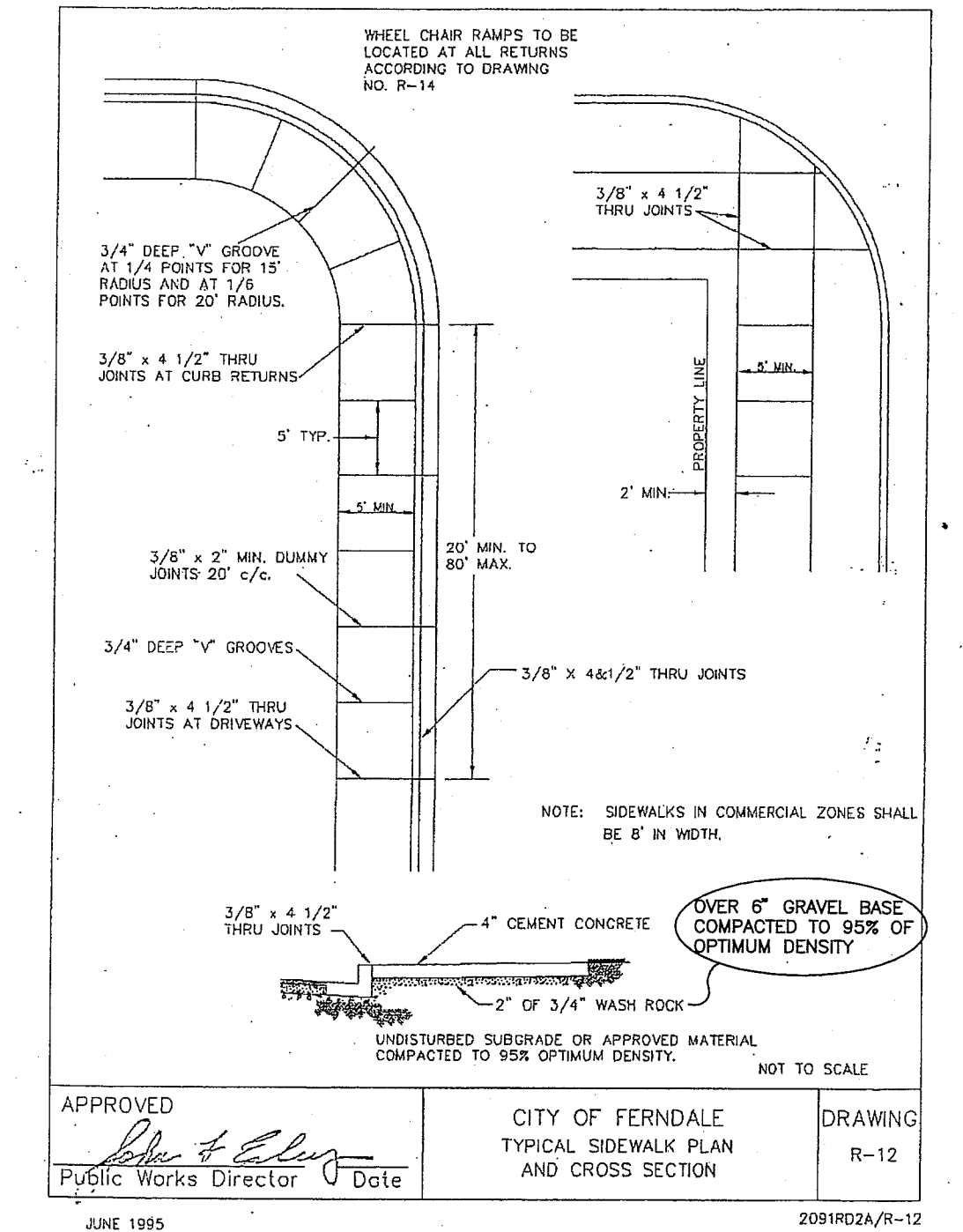
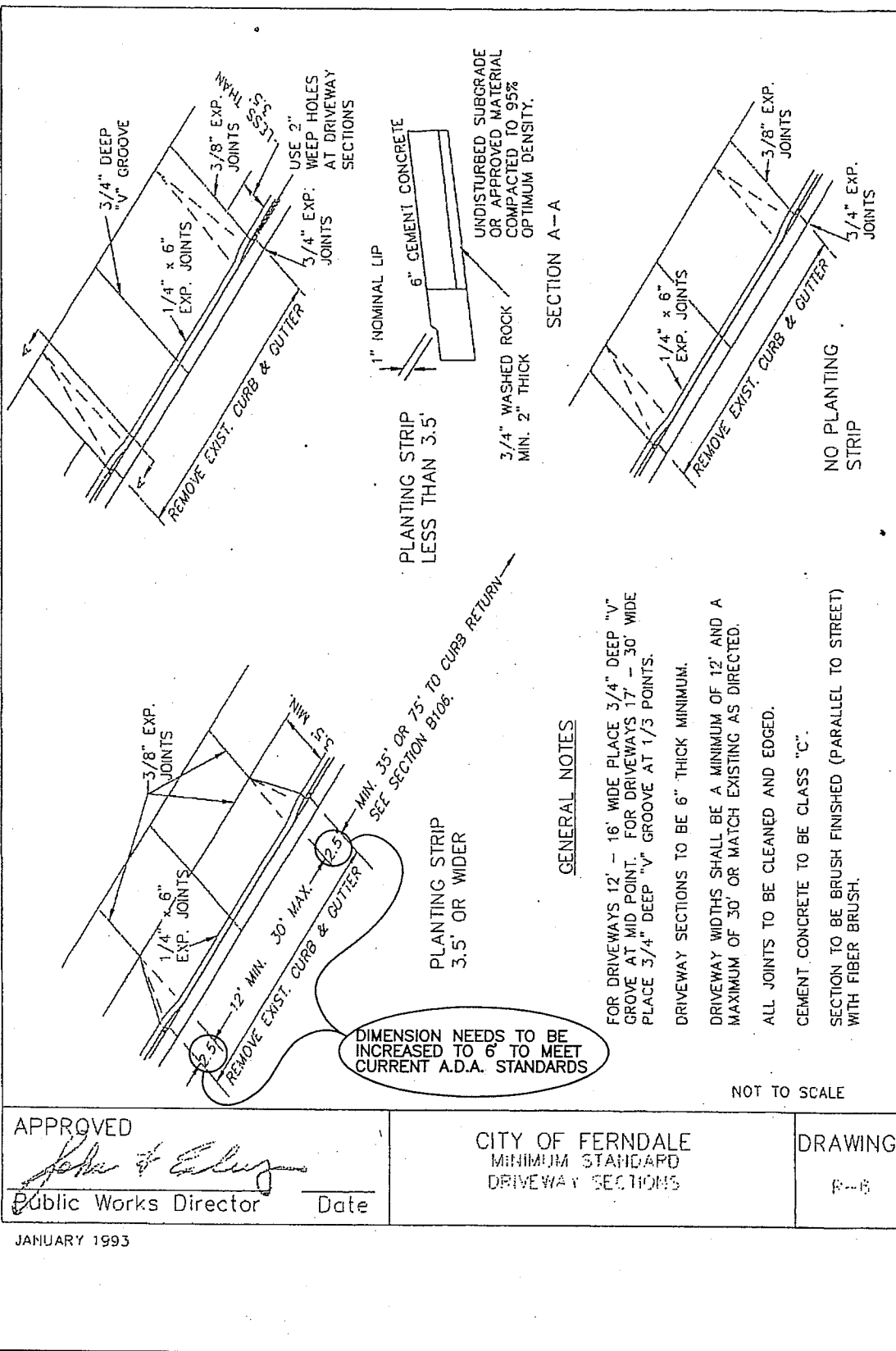
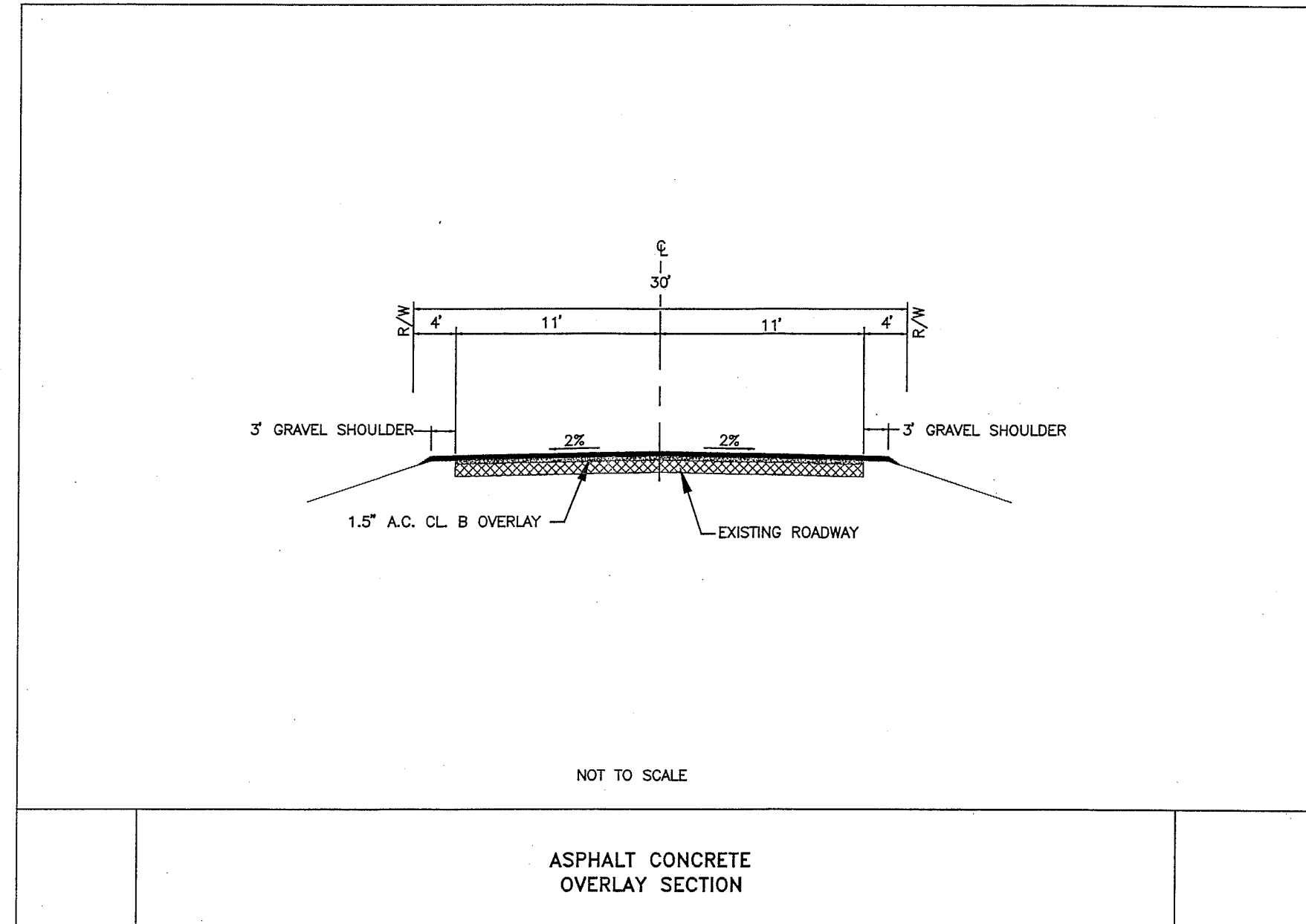
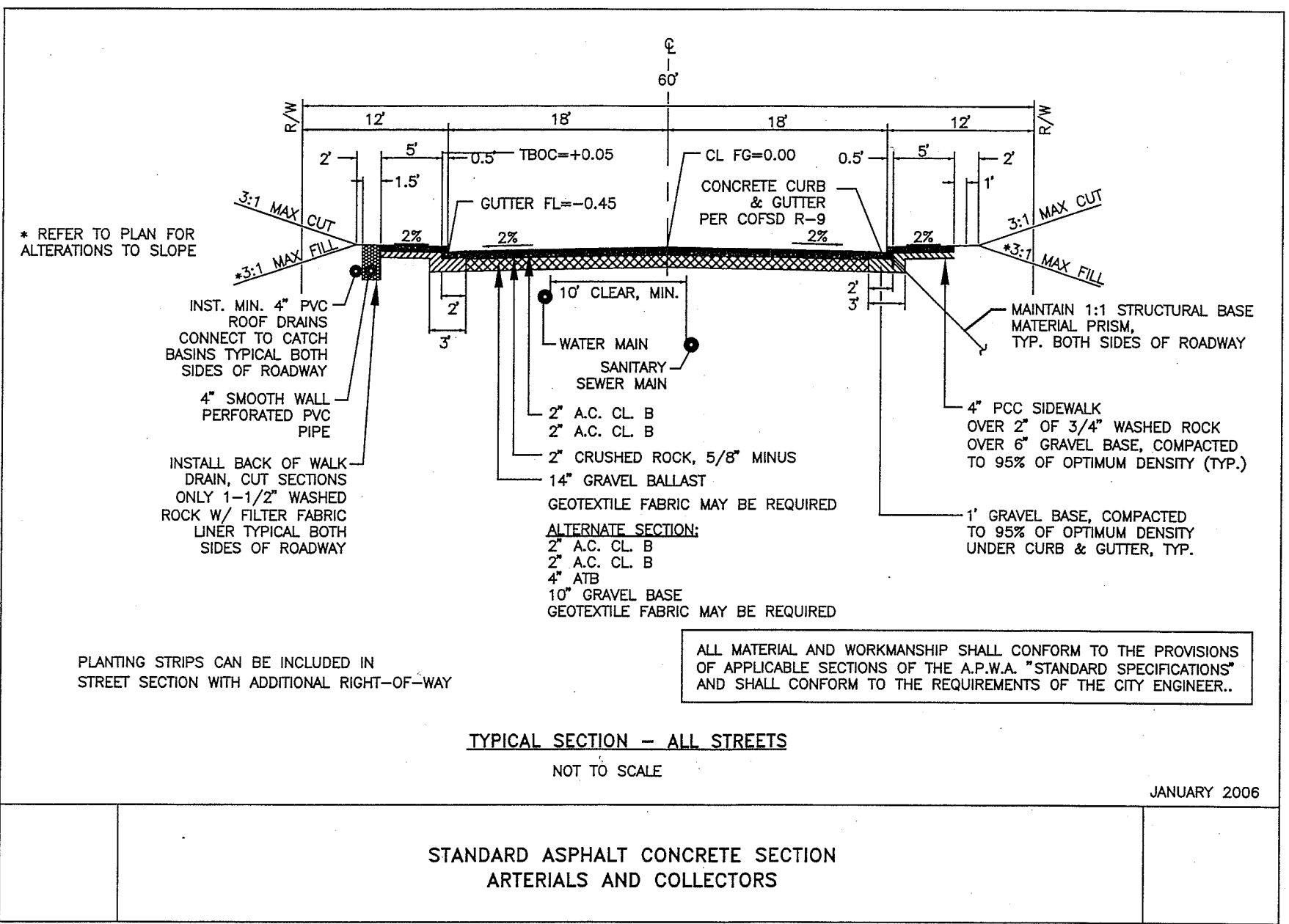
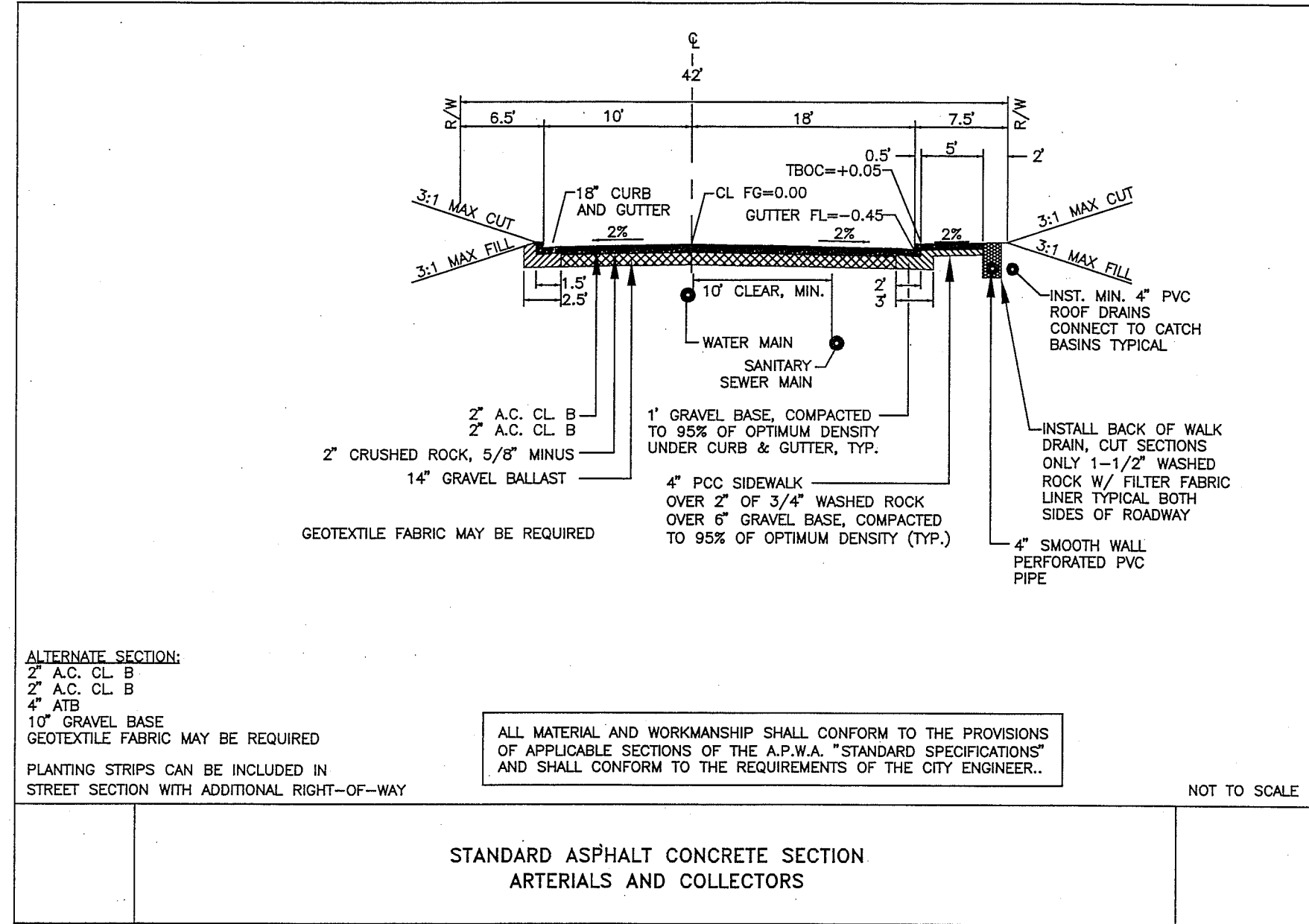
RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.RONALDTJEPSON.COM

REVISIONS
DESIGNED BY: BJJ
DRAWN BY: DMK
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 41665
3/22/10
Professional Engineer
1/25/12

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET:
SS-7
WO: 05055

L:\Jepson Projects\2005\05055\dwg\PLANS\15\as-built\15-C-18-D1-AB.DWG - d:\klein - FEB 18, 2010 - 09:44:05

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE INSTRUCTIONS.



ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

Ronald T. Jepson, P.E., L.S.
CERTIFICATE NO. 4361

SURVEYOR'S CERTIFICATE

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE"

Ronald T. Jepson, P.E., L.S.
CERTIFICATE NO. 4361

AS-BUILT

REVISIONS

DESIGNED BY: BJW
DRAWN BY: DMK
DATE: 3/22/10
RCE: 41665
RONALD T. JEPSON
ENGINEER
CITY OF FERNDALE
1/25/12

RONALD T. JEPSON & ASSOC.

CIVIL ENGINEERING - SURVEYING - LAND PLANNING
232 GRAND AVENUE, SUITE C - BELLINGHAM, WASHINGTON 98223
360-733-5760 FAX 360-647-8839 WWW.RONALDJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS, LLC

CONSTRUCTION DETAILS

CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM.

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: D-1
WO: 05055

L:\Jepson Projects\2005\050555\dwg\PLANS\as-builts\c-19-22-AB.DWG -- djklein -- FEB 18, 2010 -- 09:47:56

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLISHED. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

ENGINEER'S CERTIFICATE

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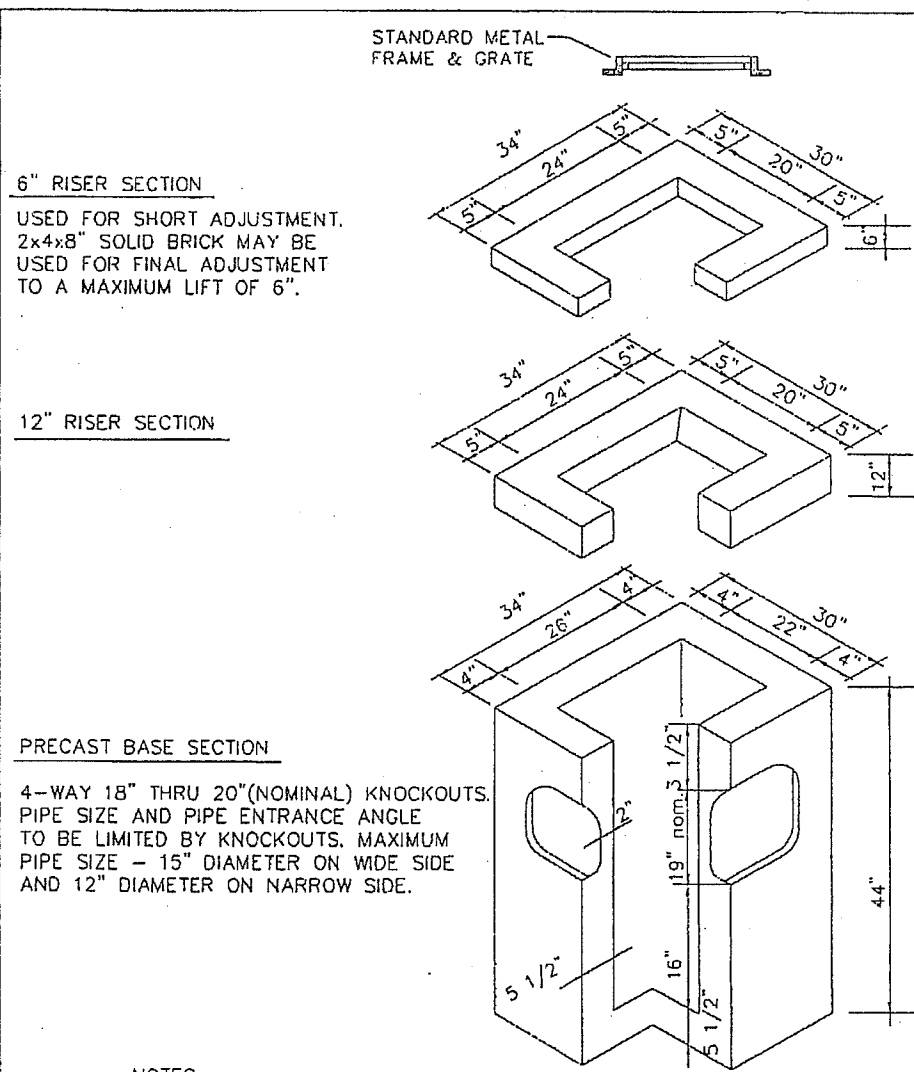
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

AS-BUILT

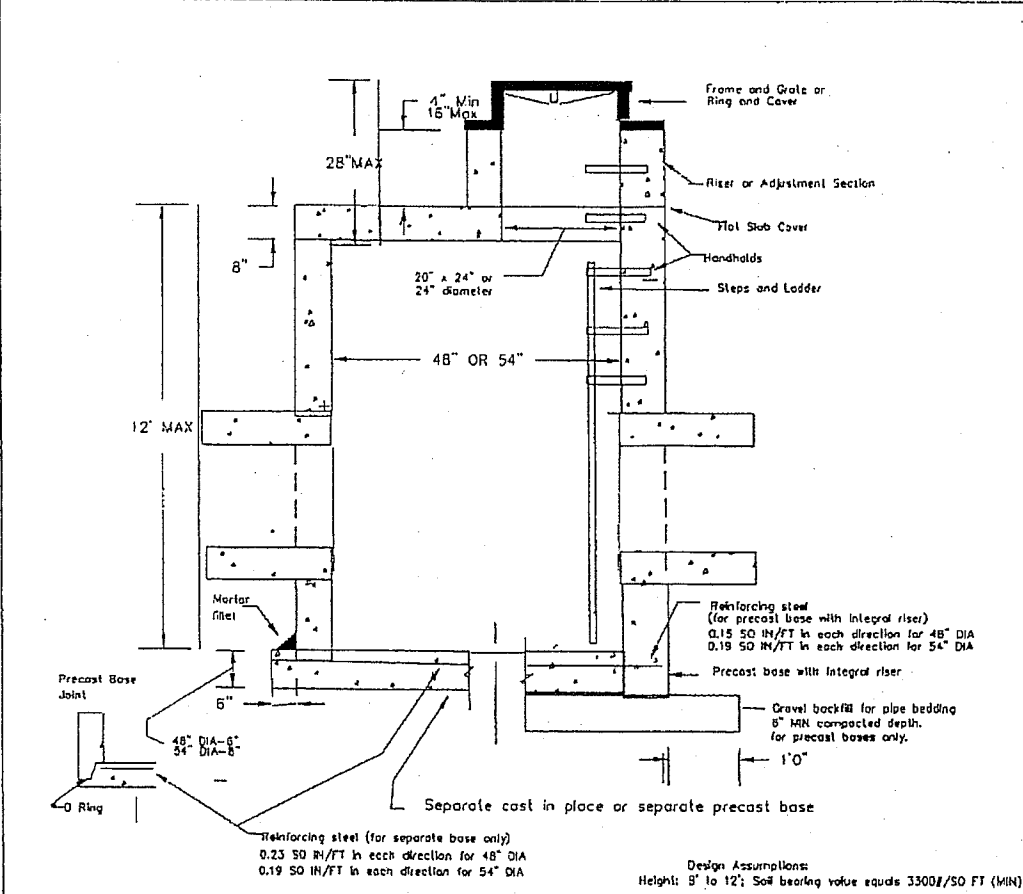


- NOTES:
- 1) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER A.P.W.A. STANDARDS OR STATE STANDARDS. (B-1)
 - 2) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION, SEE A.P.W.A. STANDARDS OR STATE STANDARDS.

APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

CITY OF FERNDALE
CATCH BASIN TYPE I

DRAWING
ST-1

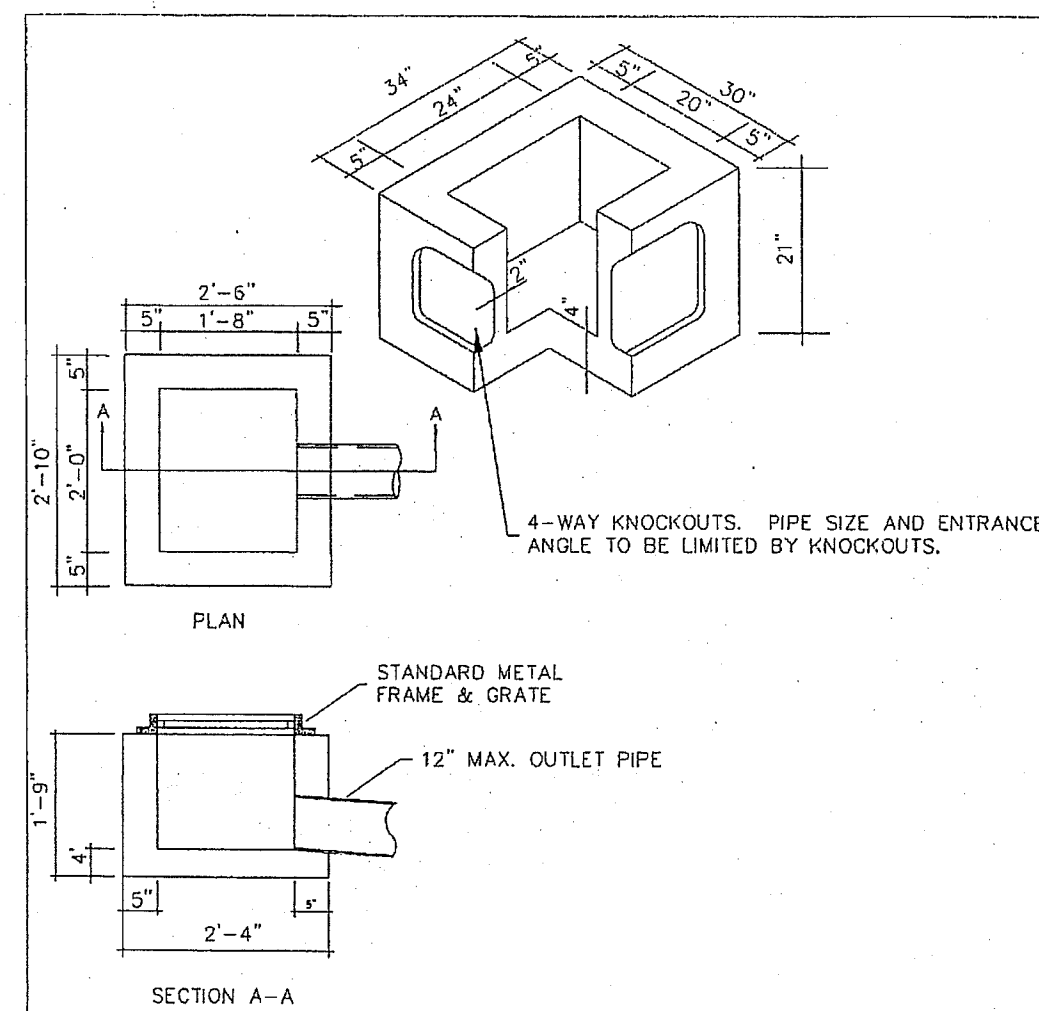


NOTES:

- 1) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER A.P.W.A. STANDARDS OR STATE STANDARDS. (B-1)
- 2) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION, SEE A.P.W.A. STANDARDS OR STATE STANDARDS.

APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

CITY OF FERNDALE
TYPE 2 CATCH BASIN
48\"/>

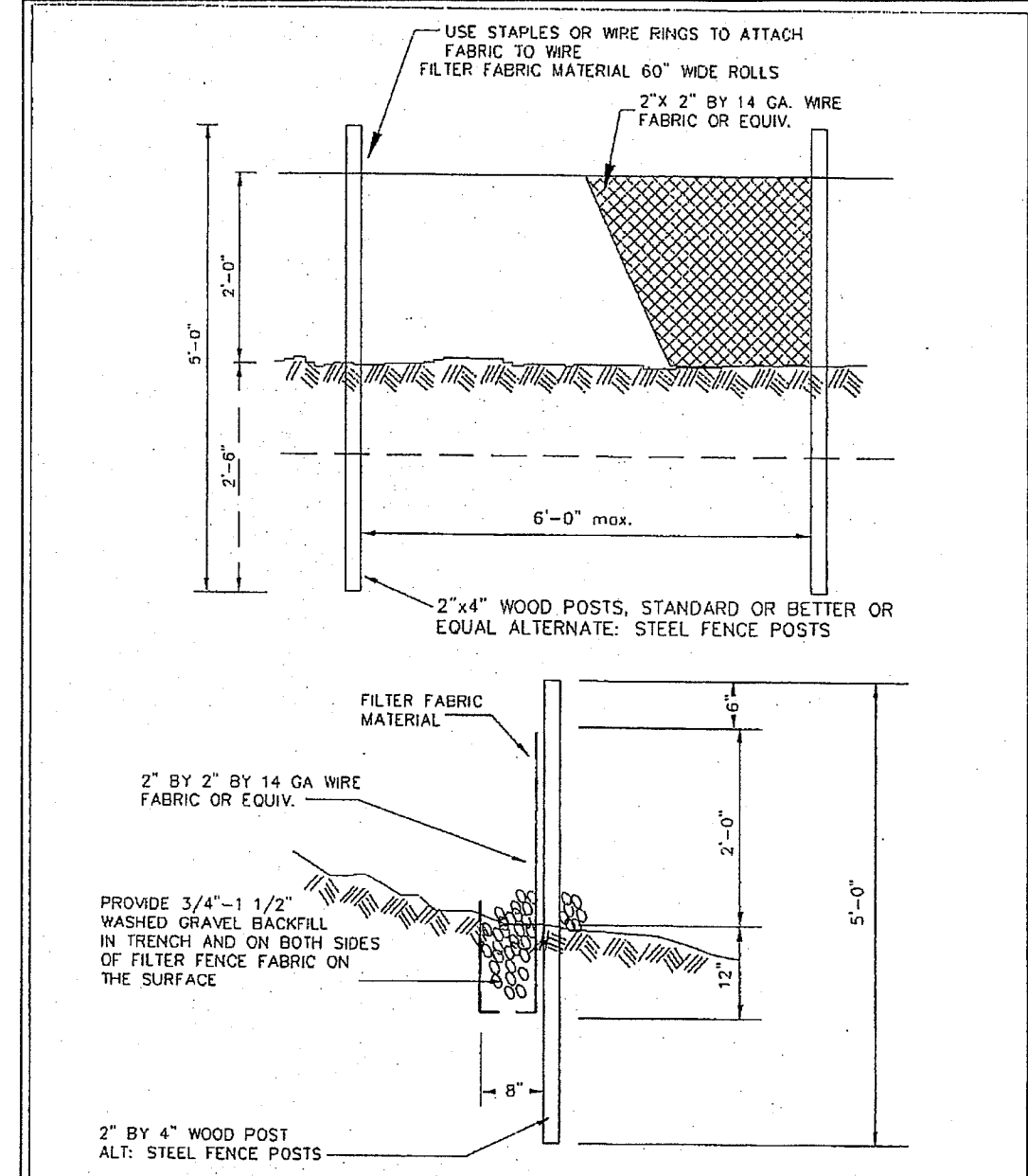


- NOTES:
- 1) UNIT IS DESIGNED TO PICK UP SURFACE DRAINAGE A SHORT DISTANCE FROM CATCH BASIN.
 - 2) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER APWA STANDARDS OR STATE STANDARDS.
 - 3) FOR DETAILS OF REINFORCEMENT OR INSTALLATION SEE APWA STANDARDS OR STATE STANDARDS.

APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

CITY OF FERNDALE
INLET DETAIL

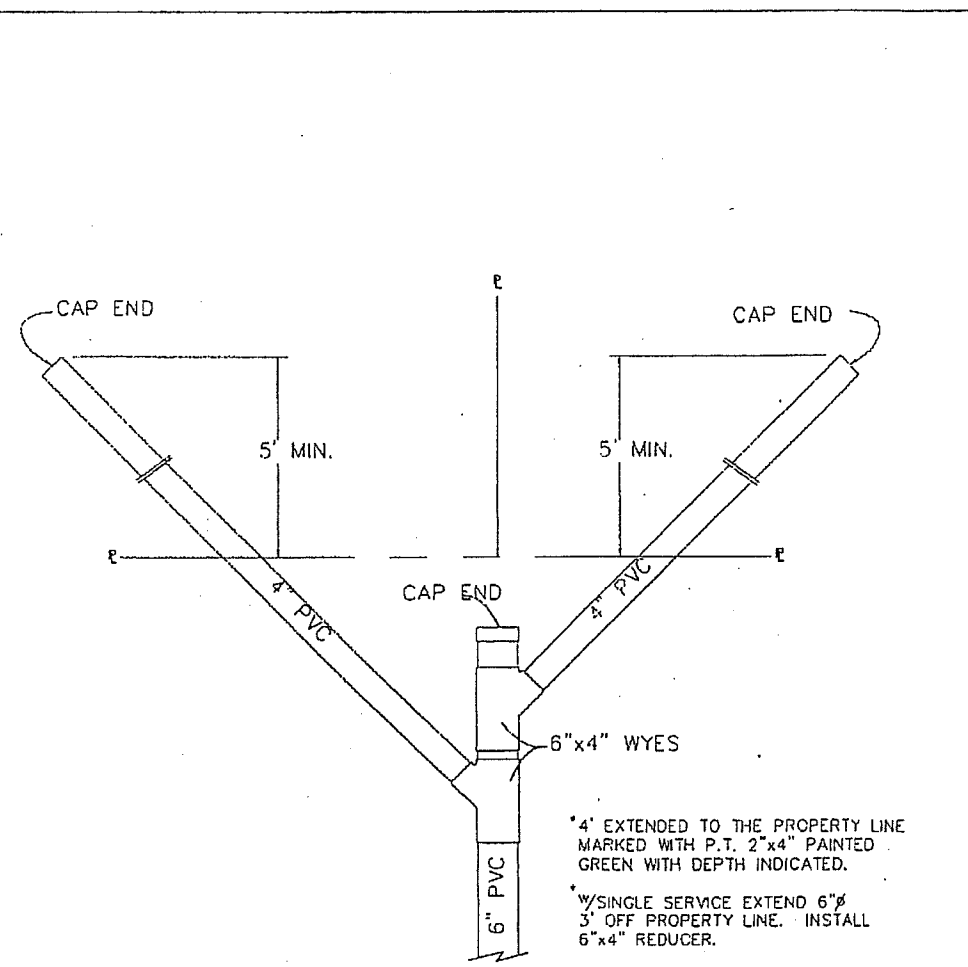
DRAWING
ST-7



APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

CITY OF FERNDALE
SILT FENCE DETAIL

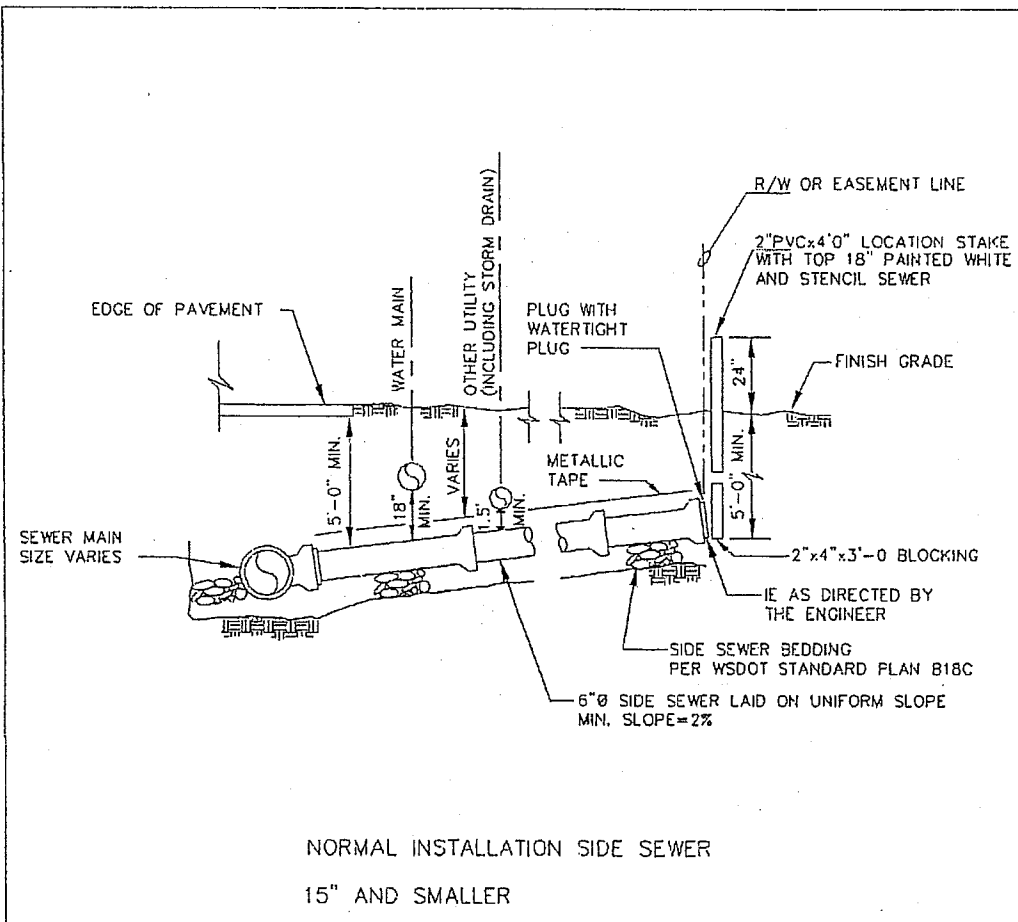
DRAWING
ST-10



APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

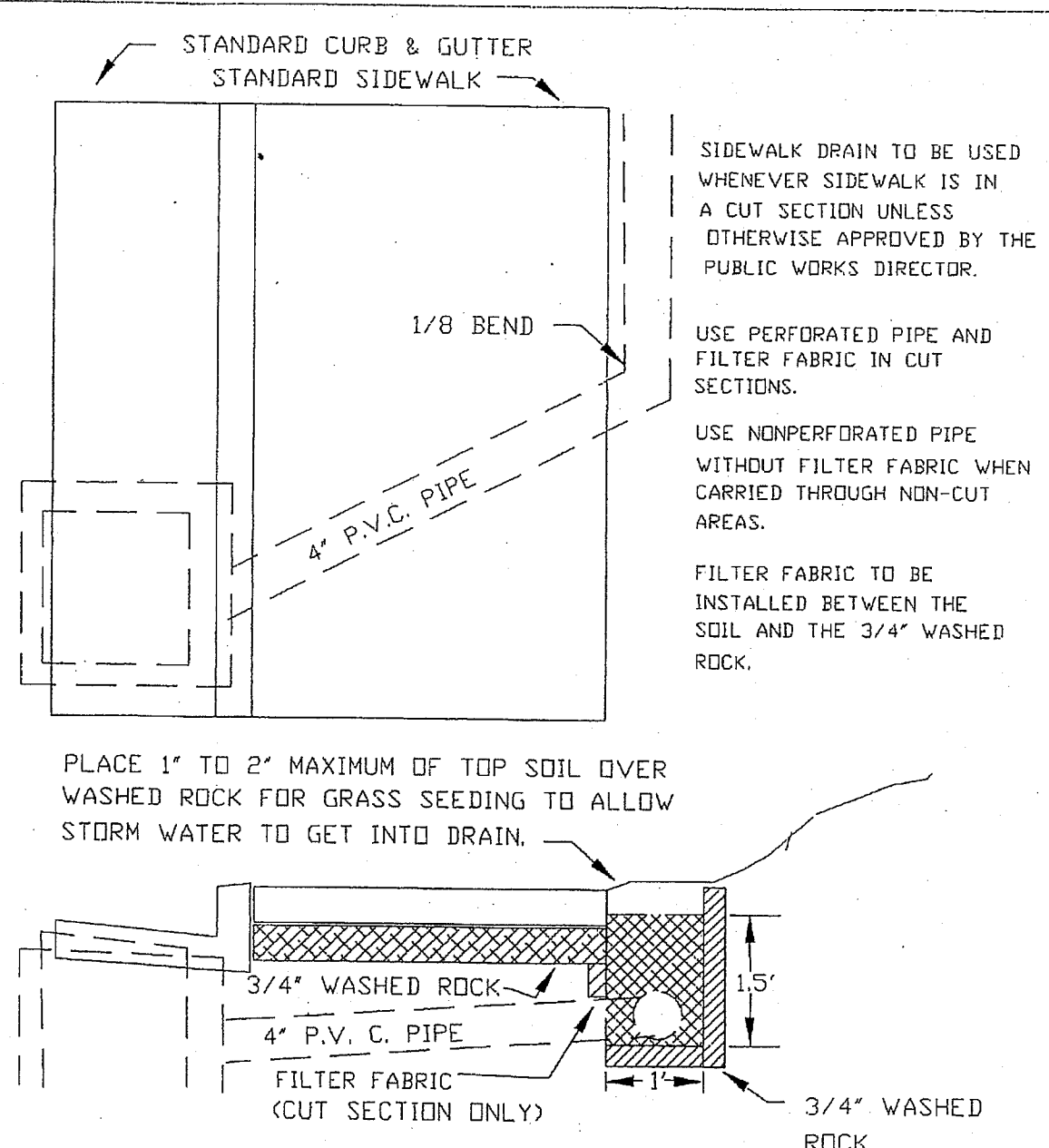
CITY OF FERNDALE
DOUBLE SANITARY SEWER SERVICE

DRAWING
SS-13



APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

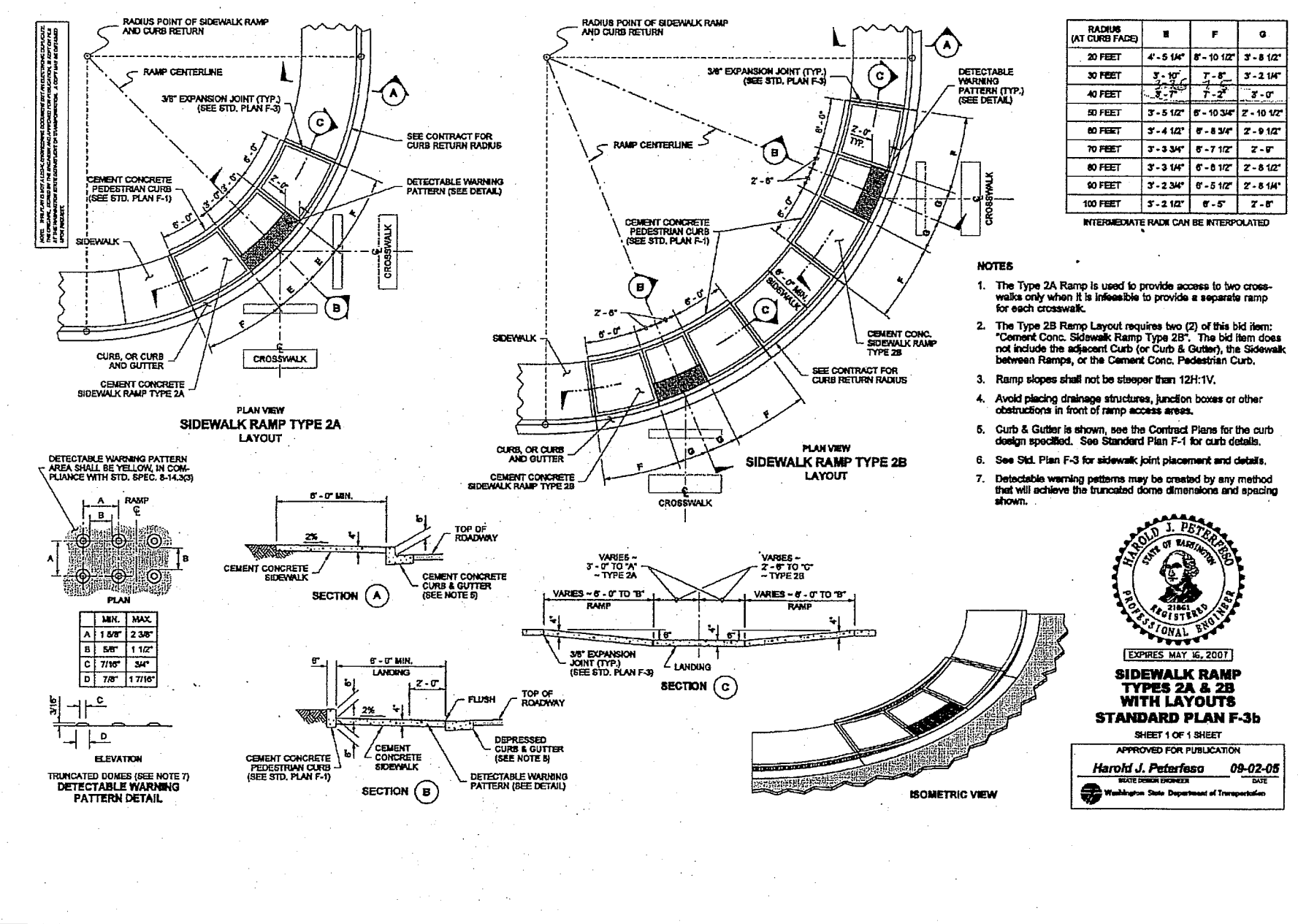
CITY OF FERNDALE
NORMAL INSTALLATION
15\"/>



APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

CITY OF FERNDALE
SIDEWALK DRAIN

DRAWING
ST-15



APPROVED: *John F. Ewing*
Public Works Director Date
JUNE 1995

CITY OF FERNDALE
SIDEWALK RAMP DETAIL

DRAWING
ST-16

REVISIONS

DESIGNED BY	BJW
DRAWN BY	DMK
DATE:	
ENGINEER	RONALD T. JEPSON
RCE:	41665

1/25/12

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5780 FAX 360-647-8939 WWW.RONALDTJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS, LLC
CONSTRUCTION DETAILS
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM.

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: D-2
WO: 05055

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATE

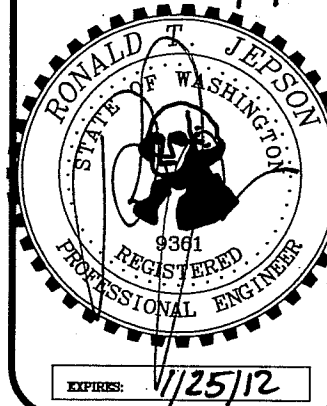
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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

AS-BUILT

REVISIONS

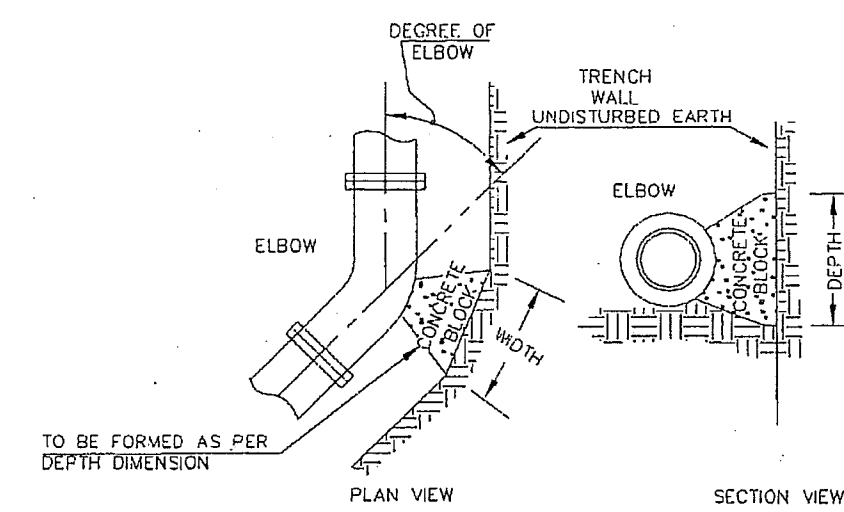
DESIGNED BY BJV
DRAWN BY DMK
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 41665
3/22/10



RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.RONALDJEPSON.COM

PREPARED FOR: SOUTH DOUGLAS, LLC
CONSTRUCTION DETAILS
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOMB, WASHINGTON

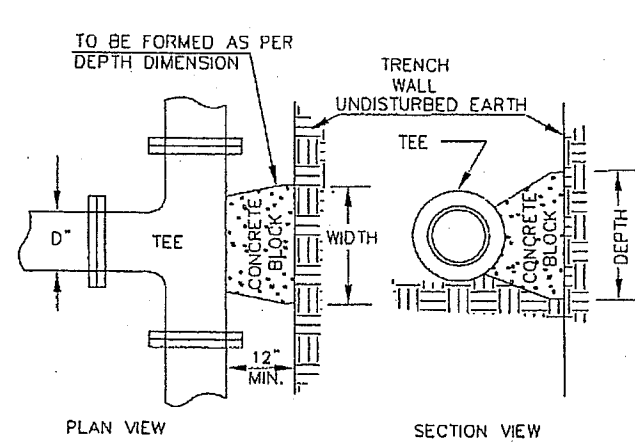
SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: D-3
WO: 05055



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

NOTE:
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH WALLS, UNDER VARIABLE CONDITIONS SIZE OF THRUST BLOCK SHALL BE DETERMINED BY ENGINEER.

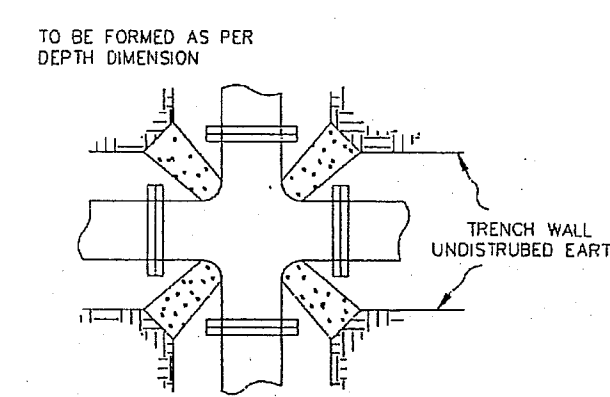
APPROVED: *John & Eliza*
Public Works Director Date
CITY OF FERNDALE
THRUST BLOCKING
ELBOWS
DRAWING W-2
JUNE 1995 2091WA2A/W-2



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

NOTE:
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH WALLS, UNDER VARIABLE CONDITIONS SIZE OF THRUST BLOCK SHALL BE DETERMINED BY ENGINEER.

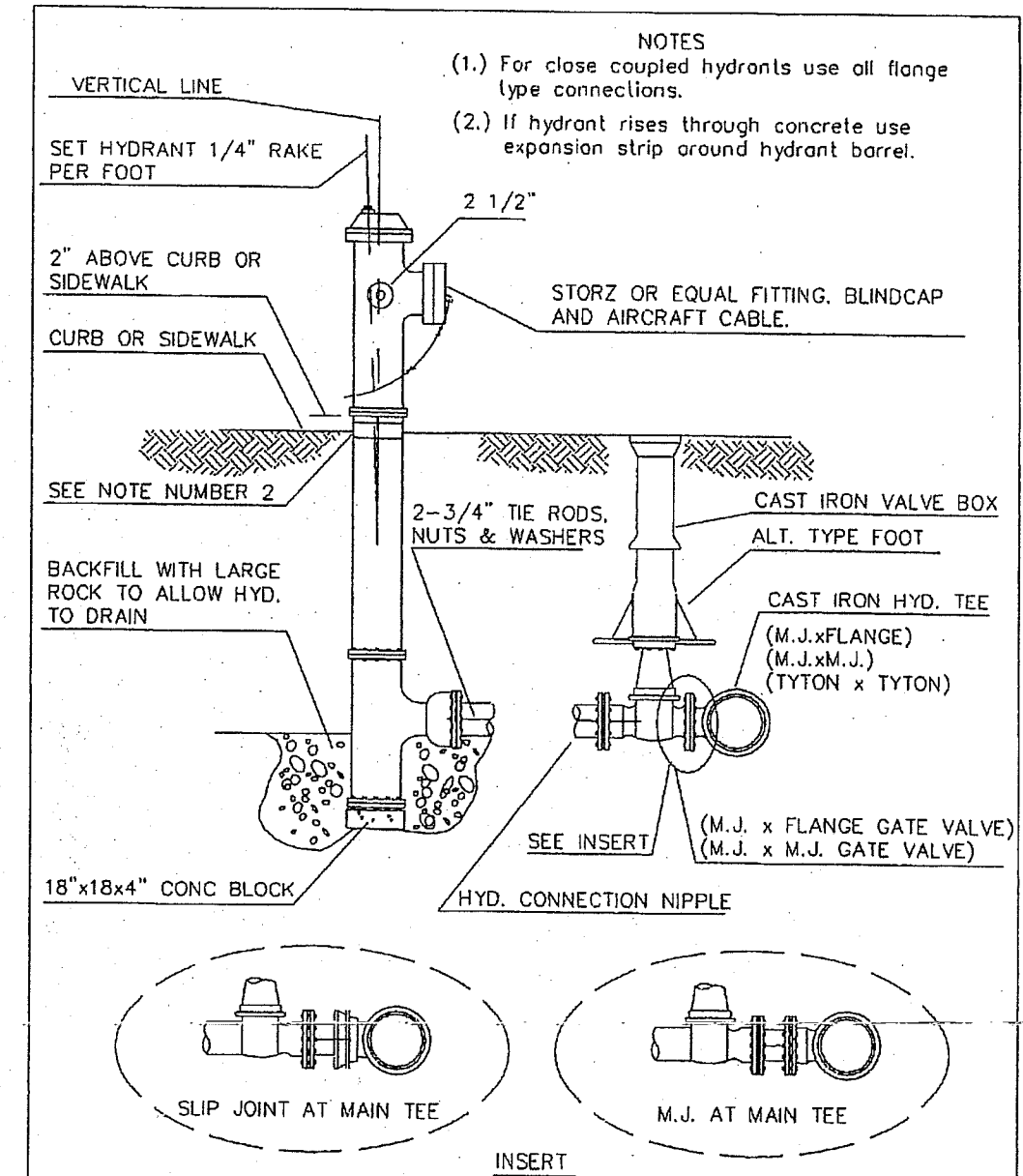
APPROVED: *John & Eliza*
Public Works Director Date
CITY OF FERNDALE
THRUST BLOCKING
TEES
DRAWING W-3
JUNE 1995 2091WA2A/W-3



SIZE	11 1/4"	22 1/2"	45"	90"
6"	1'-0"	1'-0"	1'-6"	2'-3"
8"	1'-3"	1'-3"	1'-9"	3'-0"
10"	1'-6"	1'-6"	2'-3"	3'-6"
12"	2'-0"	2'-0"	2'-9"	4'-0"
16"	2'-6"	2'-6"	3'-6"	4'-6"
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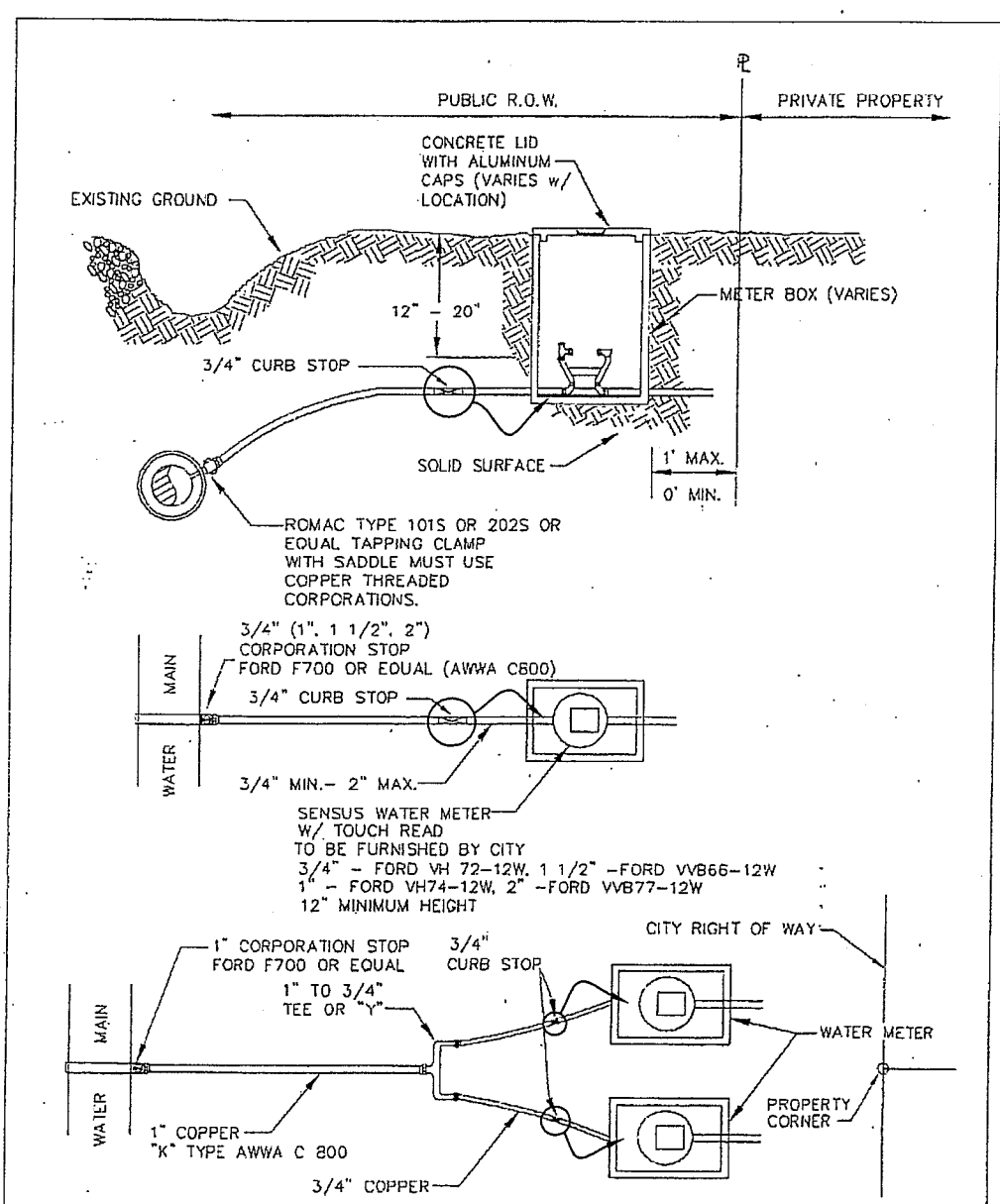
NOTE:
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH WALLS, UNDER VARIABLE CONDITIONS SIZE OF THRUST BLOCK SHALL BE DETERMINED BY ENGINEER.

APPROVED: *John & Eliza*
Public Works Director Date
CITY OF FERNDALE
THRUST BLOCKING
4-WAY INTERSECTION
DRAWING W-4
JUNE 1995 2091WA2A/W-4



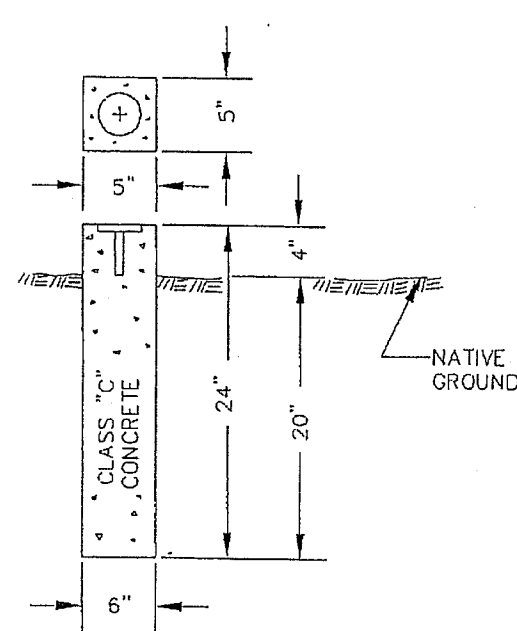
APPROVED: *John & Eliza*
Public Works Director Date
CITY OF FERNDALE
FIRE HYDRANT ASSEMBLY
DRAWING W-1
JUNE 1995

NOTE: AN ADDITIONAL 4" NEEDS TO BE ADDED TO THE ABOVE DIMENSIONS FOR THRUST BLOCKS



APPROVED: *John & Eliza*
Public Works Director Date
CITY OF FERNDALE
TYPICAL WATER SERVICE
(3/4" TO 2")
DRAWING W-5
JUNE 1995 2091WA1A/W-5

NOTE: 3/4" CURB STOP NEEDS TO BE PLACED INSIDE THE WATER METER BOX



PRECAST MONUMENT
FOR OFF-ROAD USE

NOT TO SCALE

- NOTES:
1. THE BRASS DISC SHALL BE CAST OF YELLOW BRASS - 2" MIN. DIAMETER WITH LONG SHANK.
 2. CONCRETE SHALL BE CLASS "C" MIX.
 3. ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF THE HOLE SO THAT THE CONCRETE IS PLACED ON FIRM, UNDISTURBED EARTH.
 4. THE TOP OF THE CONCRETE SHALL BE TROWELLED SMOOTH AND THE BRASS DISC SET IN THE CENTER FLUSH AND LEVEL.
 5. LOCATION OF CONTROL POINT MAY BE PUNCHED AFTER CONCRETE HAS BEEN SET IN POSITION; POINT NOT TO EXCEED 1/4" FROM C.

APPROVED: *John & Eliza*
Public Works Director Date
CITY OF FERNDALE
PRECAST SURVEY MONUMENT
OFF-ROAD USE
DRAWING S-1
JUNE 1995 2091SV1A/S-1

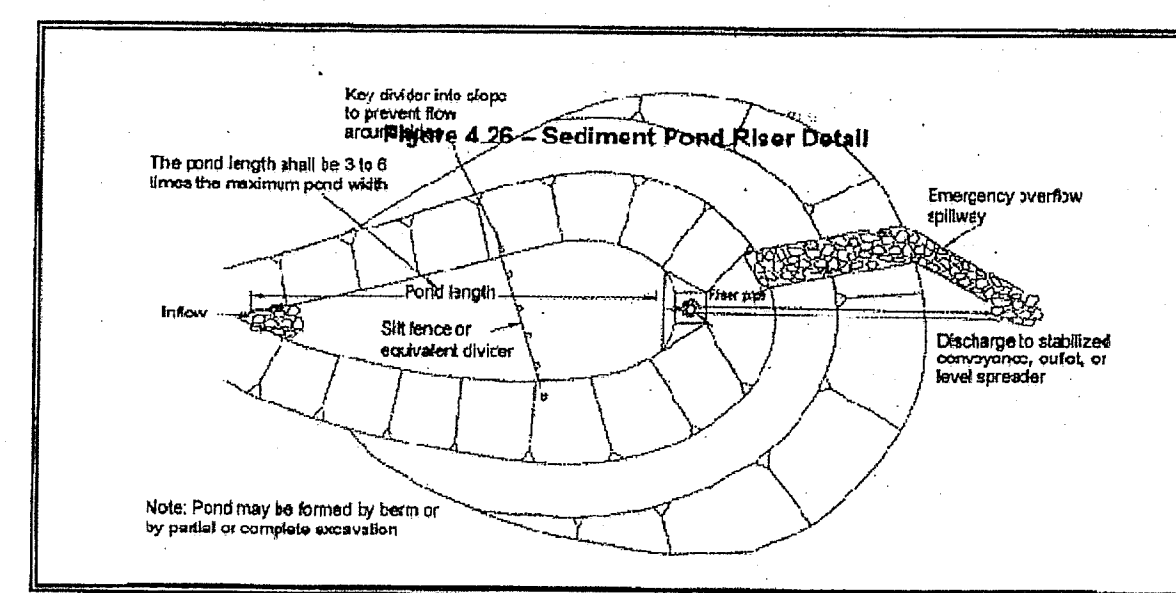


Figure 4.24 - Sediment Pond Plan View

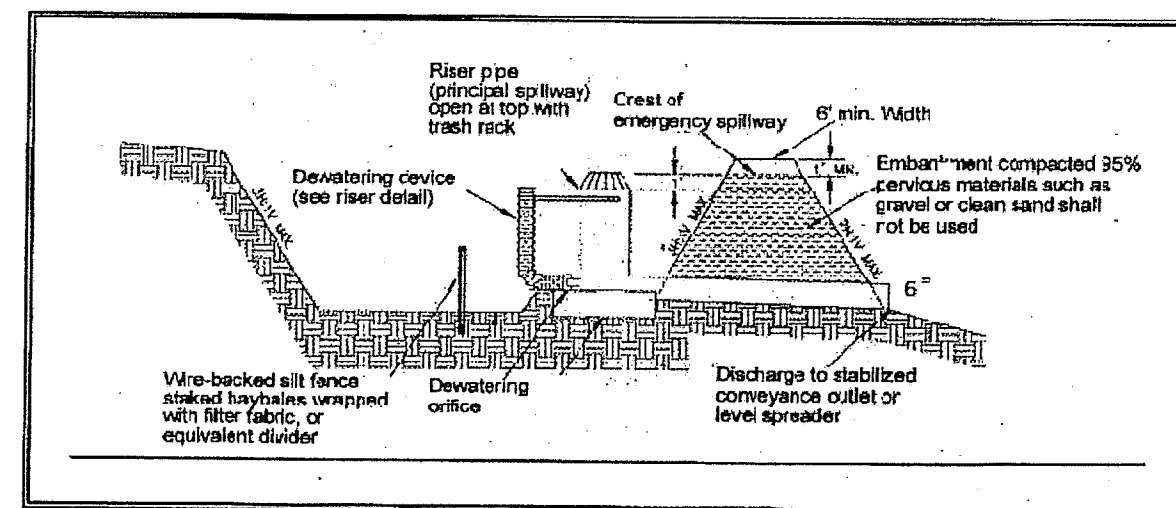


Figure 4.25 - Sediment Pond Cross Section

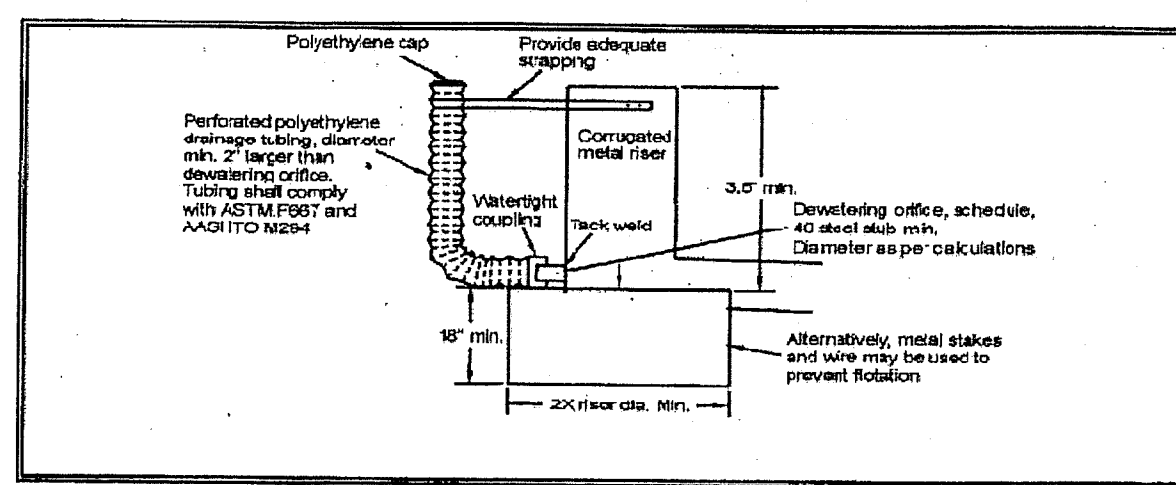
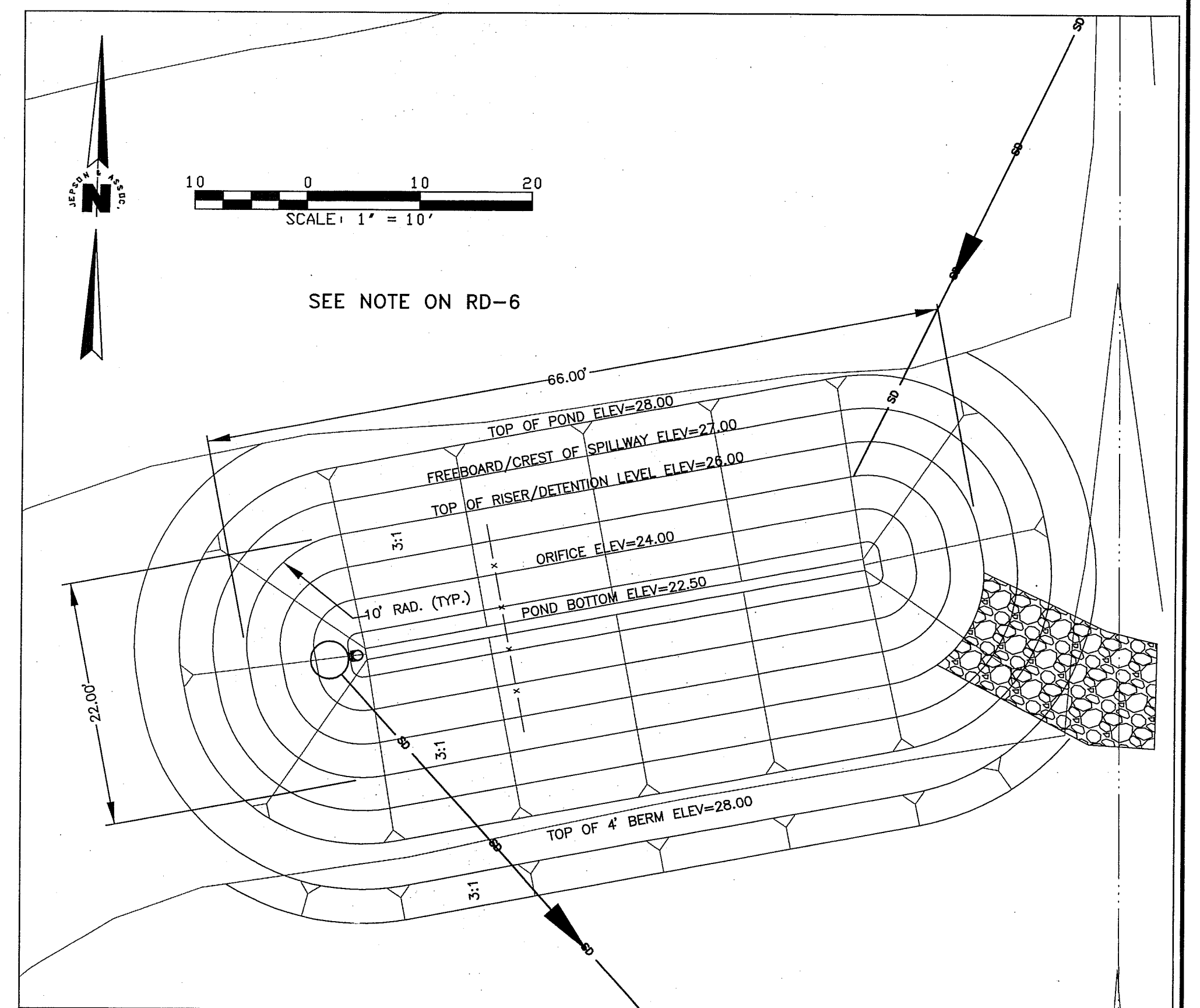


Figure 4.26 - Sediment Pond Riser Detail
RISER DIAMETER=10"
DEWATERING ORIFICE=1.5"



POND CONSTRUCTION DETAIL

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WORK AND MATERIAL SHALL ALSO CONFORM TO THE CITY OF FERNDALE DEVELOPMENT STANDARDS. IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE. REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOWS:
 - PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
 - PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH WITHIN ROAD RIGHTS-OF-WAY OR IN WATERLINE EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE.
 - PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY OR IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE.
 - GRADING OF PUBLIC ROADWAY AT:
 - COMPLETION OF EXCAVATION TO SUBGRADE.
 - COMPLETION OF BALLAST COURSE PLACEMENT.
 - COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT.
 - POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.
 - ASPHALT PAVING IN PROGRESS IN PUBLIC ROADWAY.
 - OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
 - END OF MAINTENANCE PERIOD.
- SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUB-SURFACE CONDITIONS AND SOILS TYPES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23-TRAFFIC CONTROL, SHALL APPLY.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATIONS FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED UPON A COMBINATION OF FIELD RECONNAISSANCE, FIELD SURVEY AND UTILITY COMPANY RECORDS AND ARE SHOWN ON THESE PLANS IN AN APPROXIMATE WAY ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES PRIOR TO STARTING CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555.
- THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST BETWEEN ACTUAL FIELD CONDITIONS AND THE ASSUMED CONDITIONS SHOWN ON THE APPROVED PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION. SO THAT NECESSARY PLAN OR DESIGN CHANGES CAN BE MADE. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR EXTRA WORK, INCLUDING REMOVAL AND RECONSTRUCTION OF NEWLY BUILT IMPROVEMENTS, MADE NECESSARY BY ERRORS OF DIMENSION OR GRADE ON THE APPROVED PLANS, UNLESS SUCH NOTIFICATION WAS GIVEN.
- THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING.
- ALL MATERIALS TESTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE INSTRUCTIONS OF THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR. CONTRACTOR SHOULD DETERMINE THESE REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.
- ALL PORTLAND CEMENT CONCRETE SHALL BE APWA CLASS 3000, PER APWA STANDARD SPECIFICATIONS, SECTION 6-02.3(2)B.

17. UNDERGROUND UTILITIES CONSTRUCTION

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINES), VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES, AND METERS, VALVES AND HYDRANTS. CALL AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY. THE ENGINEER WILL PROVIDE CERTIFIED AS-BUILT MYLARS TO PUBLIC WORKS UPON PROVISIONAL ACCEPTANCE OF ROAD AND UTILITY IMPROVEMENTS.
- THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
 - NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
 - WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.
 - TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.
 - WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
- UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
 - TESTING OF NEW WATER LINES, SANITARY SEWER LINES, AND STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.

1. THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF THE STANDARD STREET SECTION:

TYPICAL STREET SECTION PCC CURB AND GUTTER PCC SIDEWALKS PCC CURB RAMPS, ADA APPROACHES SIDEWALK DRAINS MONUMENTS	TYPICAL SECTION ON SHEET D-1 OF THESE PLANS CITY OF FERNDALE STANDARD DETAIL (COFSD) R-9 COFSD R-12 & TYP. SECTION ON SHEET 1 WSDOT STD. DETAIL F-3 COFSD ST-15 COFSD S-2
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- ALTERNATE PAVEMENT SECTIONS, WHEN DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER, MAY BE SUBMITTED TO THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR FOR CONSIDERATION AND, IF APPROVED, USED IN PLACE OF THE PAVEMENT SECTION SHOWN ON THESE PLANS.
- EARTHWORK**
 - THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
 - THE CONTRACTOR SHALL RAZE, REMOVE AND DISPOSE OF ALL BUILDING AND FOUNDATIONS, STRUCTURES, FENCES AND OTHER OBSTRUCTIONS THAT LIE WHOLLY OR PARTIALLY WITHIN THE PROJECT LIMITS.
 - THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UNCOMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.
 - MAXIMUM DENSITY AND OPTIMUM MOISTURE FOR GRANULAR MATERIALS WILL BE DETERMINED USING ASTM D-1557 TEST METHOD.
 - UNSUITABLE MATERIAL NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.
 - THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PRIOR TO PAVING.

4. BASE COURSES

- GRAVEL BASES AND BALLAST SHALL NOT HAVE THE PERCENT PASSING THE U.S. NO. 200 SIEVE EXCEED 5%.
- BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.
- OWNER SHALL BE RESPONSIBLE FOR ALL COMPACTION TESTING. ALL TESTING SHALL BE THROUGH ENG. REV. ACCOUNT AND PAID FOR BY OWNER.

5. PAVEMENTS

- SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
- A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
- ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.
- WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN PAINT COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
- ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.

6. STREET LIGHTING

- CONTRACTOR SHALL PROVIDE STREET ILLUMINATION IN ACCORDANCE WITH THE PROVISIONS OF SECTION 707 OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS. 100-WATT HIGH PRESSURE SODIUM LAMPS SHALL BE INSTALLED ON STANDARD CONCRETE OCTAGONAL OR ROUND POLES NO LESS THAN 25 FEET HIGH AND SPACED NO MORE THAN 250' APART, MEASURED ALONG THE PAVEMENT CENTERLINE. POLE LOCATIONS ARE SHOWN ON THESE PLANS.
- FINAL LOCATIONS OF STREET LIGHTS IS TO BE COORDINATED WITH PUGET SOUND ENERGY.
- CONTRACTOR IS TO COMPLY WITH THE SPECIFICATIONS SHOWN ON WSDOT STANDARD DETAIL J-11A, STANDARD JUNCTION BOX, UNLESS OTHERWISE DIRECTED BY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR.
- CONTRACTOR MUST INFORM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR (4) WORKING DAYS IN ADVANCE.

7. MAILBOXES

- MAILBOXES SHALL BE TYPE I, II, AND/OR III - CBU (CENTRAL BOX UNIT), USPS APPROVED. FINAL LOCATION AS DETERMINED BY USPS.

1. THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF STORM DRAIN IMPROVEMENTS:

- "MAIN LINE" CATCH BASINS
RESIDENTIAL SERVICE LINE" CATCH BASINS
THRU-CURB INLET FRAME AND GRATE
SIDEWALK DRAINS
TYPE 1, 1L OR 2, WSDOT STD. DETAILS B-1, B-1A OR B-1E
CITY OF FERNDALE STANDARD DETAIL (COFSD) ST-7
CITY OF FERNDALE STANDARD DETAIL (COFSD) ST-8
COFSD ST-15
- ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 7-09.3(1). THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE. DRAINAGE MATERIALS SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS SECTION 9-05.
- STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPPE) AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.20. STORM SEWER PIPE HAVING DIAMETERS 8" AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.12.
- ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- UNLESS OTHERWISE SPECIFIED, CAST IRON PRODUCTS SHALL CONFORM TO ASTM DESIGNATION "A 48 CLASS 30" AND DUCTILE IRON PRODUCTS TO ASTM DESIGNATION "A 536 GRADE 80-55-06".
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- ALL DRAINAGE SERVICE STUBS SHALL BE MARKED FOR LOCATION WITH A PRESSURE TREATED 2" X 4" TIMBER, PAINTED WHITE OR A WHITE 2" DIA. PVC PIPE. BOTH TYPES OF LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.
- MULTIPLE RESIDENTIAL STORM DRAIN SERVICES SHALL BE 8" PVC PIPE, DRAINING TO A COFSD ST-7 INLET. 8" PVC PIPE SHALL BE USED TO CONNECT EACH ST-7 INLET TO A NEARBY TYPE 1 OR TYPE 1L CATCH BASIN.
- ALL STORM STUB INVERT ELEVATIONS SHALL BE CONSTRUCTED TO FACILITATE POSITIVE FLOW TO CATCH BASIN.

1. THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING SANITARY SEWER IMPROVEMENTS:

PIPE BEDDING	CITY OF FERNDALE STANDARD DETAIL (COFSD) SS-1
TRENCH BACKFILL	COFSD SS-15 & SS-1 & WSDOT STD. SPEC. SEC. 9-03.12
SS MANHOLE, TYPE 1-48"	COFSD SS-2
SSMH RING & COVER, TYPE 2	COFSD SS-8 (BOLT DOWN/WATERTIGHT)
SS CLEANOUTS	COFSD SS-5
SIDE SEWERS	COFSD SS-6, SS-8 & SS-13

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH A.P.W.A. STANDARD SPECIFICATIONS, 1996 EDITION, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
- ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDALE. 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE.
- SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PVC PIPE (SDR-35) CONFORMING TO THE PROVISIONS OF ASTM D 3034 AND INSTALLED TO CITY SPECIFICATIONS.
- SANITARY SEWER PIPE BEDDING SHALL BE PEA GRAVEL PER COFSD SS-1. ALL TRENCHES SHALL BE BACKFILLED WITH CLASS B BANK RUN GRAVEL OR SUITABLE NATURAL MATERIAL AS DIRECTED BY THE ENGINEER, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDALE SS-2, SS-3 OR SS-4, AND SHALL BE BE PRE-CHANNELED. MANHOLE CONES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW.
- ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4".
- CONTRACTOR SHALL EXTEND SEWER STUBS BEYOND THE STREET RIGHT-OF-WAY LINE.
- EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION PER COFSD SS-14, WITH A 2" DIA. PVC PIPE WITH THE TOP 18" PAINTED WHITE AND STENCILED WITH THE WORD "SEWER". THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

1. THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING WATER SUPPLY SYSTEM IMPROVEMENTS:

PIPE BEDDING	SEE DETAIL, SHEET 27
TRENCH BACKFILL	COFSD W-11 & WSDOT STD. SPEC. SEC. 9-03.12
AIR/VACUUM RELEASE VALVE	WSDOT STD. DETAIL B21-0
BLOW-OFF ASSEMBLY	COFSD W-9 & W-10
FIRE HYDRANT ASSEMBLY	COFSD W-1
THRUST BLOCKING	COFSD W-2, W-3 & W-4
WATER SERVICE	COFSD W-5

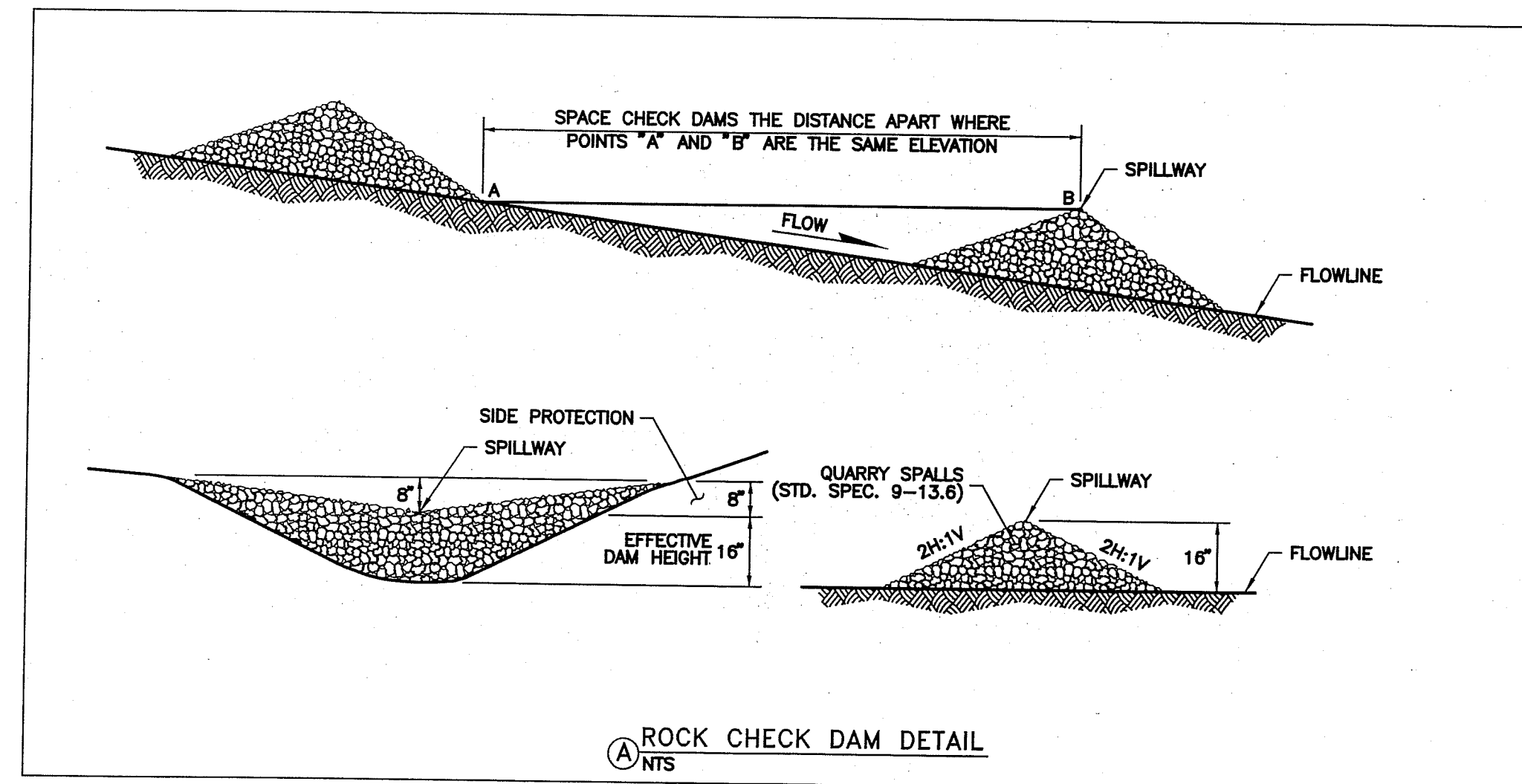
- ALL WATERMAIN PIPE SHALL BE DUCTILE IRON, MINIMUM CLASS 50, PER AWWA STANDARDS H3-71 AND C151-71, WITH CEMENT LINING PER AWWA STANDARD C104-71. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705.
- MATERIAL FOR FITTINGS SUCH AS GROSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J., FLANGED OR PUSH-ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71.
- CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-11.3(13) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION. NO PRE-CAST BLOCKS ARE ALLOWED.
- CONNECTIONS TO EXISTING WATER MAINS - PER WSDOT STD SPEC. 7-09.3(19), THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE. ALL CONNECTIONS SHALL BE DONE BY THE CONTRACTOR. CONNECTION TO EXISTING CITY WATER SYSTEM SHALL BE PAID IN ADVANCE BY A DEPOSIT.

- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTIONS 7-09.3(23) AND 7-09.3(24) AND OF THE WSDOT STD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 225 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. ALL DISINFECTION AND BACTERIOLOGICAL TESTS SHALL BE CONDUCTED BY THE CITY OF FERNDALE LABORATORY. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART.
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL STREET RIGHTS-OF-WAY, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPE SHALL HAVE A MINIMUM COVER OF 42".
- ALL VALVES SHALL BE EITHER GATE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST IRON VALVE BOXES.

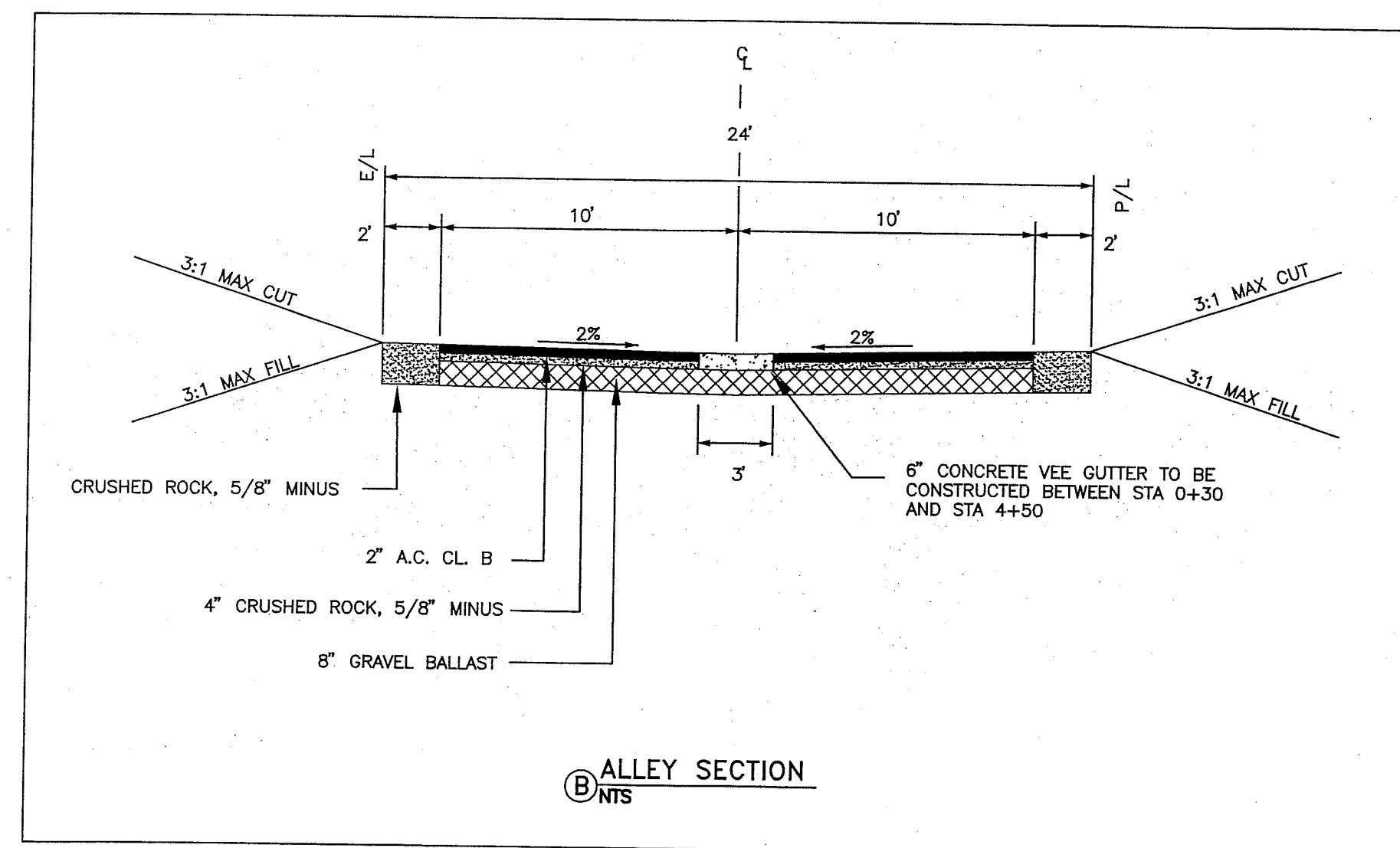
- GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 8 INCHES IN DIAMETER. SHORT-BODY VALVES SUITABLE FOR A NONSHOCK SHUT-OFF PRESSURE OF 130 PSI AND SUITABLE FOR DIRECT BURIAL ARE SPECIFIED. GATE VALVES SHALL BE RESILIENT SEATED IRON-BODY, FULL-BRONZE MOUNTED VALVES CONFORMING TO AWWA C509 AND SUITABLE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED.
- ALL VALVES SHALL HAVE NONRISING STEMS AND SHALL OPEN COUNTERCLOCKWISE AND SHALL BE EQUIPPED WITH A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS.
- VALVE MARKERS SHALL BE LOCATED OUTSIDE OF PAVEMENT SECTIONS.

- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS. ALL WATER SERVICES SHALL BE MARKED FOR LOCATION WITH A METER BOX PER COFSD W-5.
- FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO COF STANDARD DETAIL W-1 (WSDOT B-19) AND THE FOLLOWING STANDARDS:

- FIRE HYDRANTS SHALL HAVE TWO INDIVIDUALLY-VALVED 2-1/2" PORTS AND ONE 5-1/4" MAIN VALVE OPENING. A 4-1/2" NST PUMPER NOZZLE AND A 5" STORZ PORT WITH CAP AND CABLE SHALL BE SUPPLIED. HYDRANTS SHALL EITHER BE IOWA OR M.H. 929T HYDRANTS.
- FIRE HYDRANTS SHALL HAVE THE STORZ PORT FACING THE REQUIRED ACCESS AND THE BASE FLANGE OF THE HYDRANT MUST NOT VARY MORE THAN 1 FOOT IN ELEVATION FROM THE GRADE LEVEL OF THE REQUIRED ACCESS. THE LOWEST STEM SHALL BE A MINIMUM OF 14" ABOVE THE GROUND. HYDRANTS PAINTED FACTORY YELLOW MAY NOT REQUIRE ADDITION PAINTING.
- IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VEHICULAR DAMAGE, APPROPRIATE CRASH POSTS SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REQUIRED ACCESS. CRASH POSTS SHALL BE 4" CEMENT-FILLED PIPE A MIN. OF 3' IN HEIGHT, WITH A MIN. OF 2' OF PIPE BELOW GRADE. HYDRANT SHUTOFF VALVES SHALL BE LOCATED BETWEEN 5' AND 20' FROM THE HYDRANT.
- UNDERGROUND SUPPLIES TO FIRE HYDRANTS MUST BE INSPECTED. SUCH INSPECTION SHALL INCLUDE VISUAL INSPECTION OF PIPING AND HYDROSTATIC PRESSURE TESTING TO A MIN. OF 225 PSI OR 50 PSI IN EXCESS OF STREET MAIN PRESSURE, WHICHEVER IS GREATER. A FLOW TEST WILL BE REQUIRED WHEN INSTALLATION IS COMPLETE.
- FIRE HYDRANTS MUST BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND MUST BE REPAIRED OR REPLACED WHEN DEFECTIVE. HYDRANTS SHALL BE FULLY OPERABLE BEFORE CONSTRUCTION COMMENCES ABOVE GRADE LEVEL.



A ROCK CHECK DAM DETAIL



B ALLEY SECTION

AS-BUILT

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV. 1 AND DOUGLAS PLACE LONG PLAT DIV. 1" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

Ronald T. Jepson
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 8361

SURVEYOR'S CERTIFICATE

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE

Ronald T. Jepson
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 8361

REVISIONS	
DESIGNED BY	BWJ
DRAWN BY	DMK
DATE:	
ENGINEER	RONALD T. JEPSON
RCE:	41665
	3/2/10

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.RONALDTJEPSON.COM

GENERAL NOTES
CHURCH/DOUGLAS ROAD IMPROVEMENTS AND IMPROVEMENTS FOR SOUTH DOUGLAS LONG PLAT DIV.1 AND DOUGLAS PLACE LONG PLAT DIV. 1
FERNDALE, COUNTY OF WHATCOM.

SCALE: AS SHOWN
DATE: 2/16/2010
SHEET: GN-1
WO: 05055