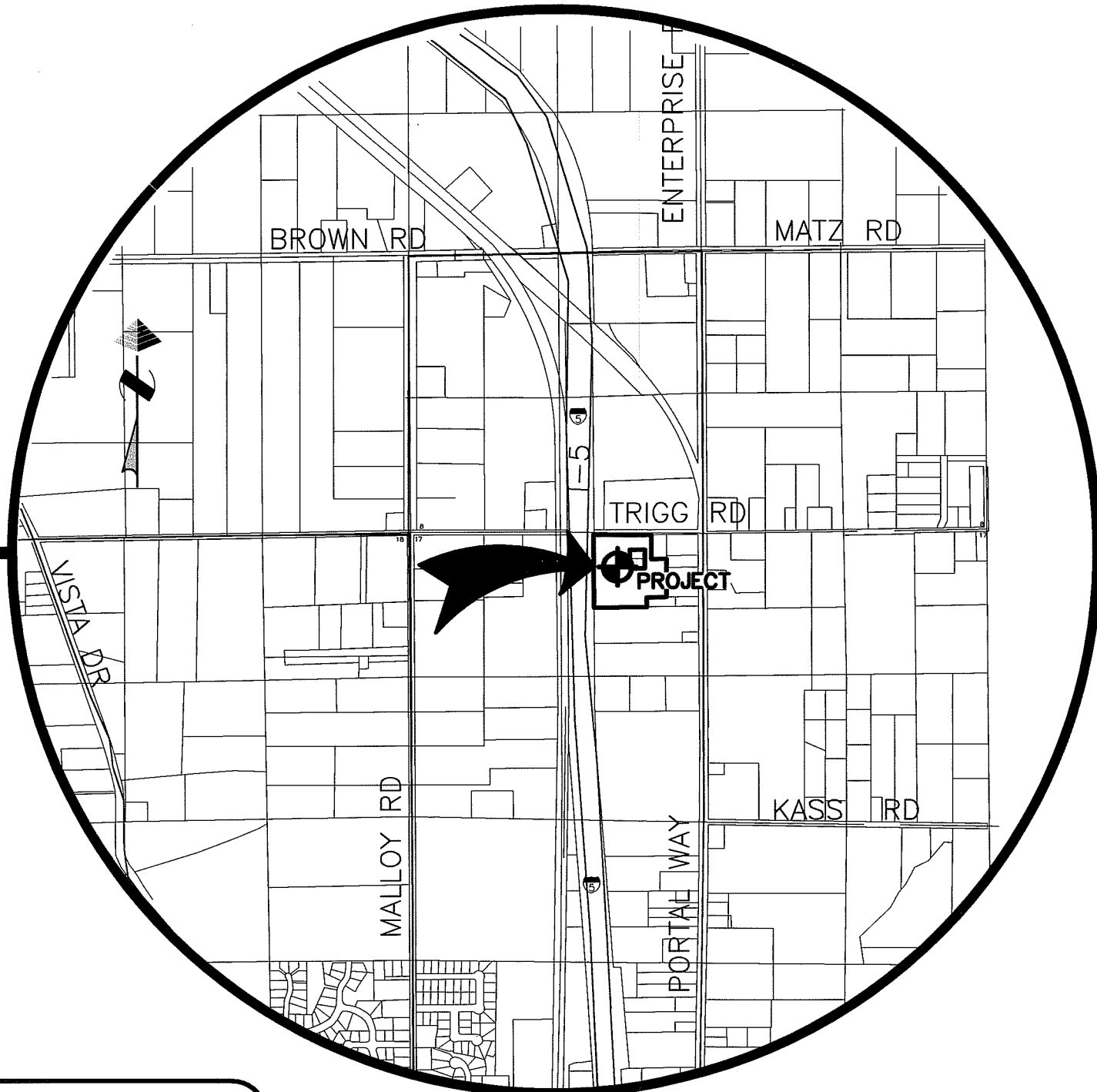


PLAT OF TRIGG WOODS AS-BUILT DRAWINGS CITY OF FERNDALE



CONTACTS:

OWNER:
TRIGG ROAD LLC
C/O MARK BRATT
1604 MAIN STREET
LYNDEN, WA 98264
(360) 354-3926

ENGINEER:
MILLENNIUM ENGINEERING GROUP, INC.
P.O. BOX 137 - 109 - 6TH STREET
LYNDEN, WA 98264
(360) 354-8141
CHAD SCHULHAUSER, P.E.

SURVEYOR:
COMPASS POINT SURVEY GROUP, INC.
523 FRONT ST.
LYNDEN, WA 98264
(360) 354-8320
SCOTT HARKSELL, PLS

VICINITY MAP

NO SCALE

SHT.

TITLE

- COVER SHEET
- SUBDIVISION PLAN
- SITE UTILITY PLAN
- TRIGG ROAD STREET AND STORM
- TRIGG WOODS LANE 0+00 TO 4+00 STREET & STORM
- TRIGG WOODS LANE 4+00 TO 8+50 STREET & STORM
- TRIGG WOODS LANE 8+50 TO END STREET & STORM
- TRIGG ROAD 0+00 TO 6+50 SEWER AND WATER AND
- TRIGG ROAD 5+37 TO 6+50 STORM
- TRIGG ROAD 6+50 TO END SEWER
- TRIGG WOODS LANE 0+00 TO 4+10 SEWER AND WATER
- TRIGG WOODS LANE 4+10 TO 8+50 SEWER AND WATER
- TRIGG WOODS LANE 8+50 TO END SEWER AND WATER
- DETAILS
- DETAILS
- DETAILS

LEGEND

EXISTING		PROPOSED
SD	STORM MAIN	
	ROOF & YARD DRAIN	
	STORM DRAIN CATCH BASIN	
	STORM DRAIN MANHOLE	
W	WATER MAIN	
	GATE VALVE	
	FIRE HYDRANT	
	WATER METER	
SS	SEWER MAIN	
	SEWER MANHOLE	
	SEWER CLEANOUT	
	STREET LIGHT	
	STREET SIGN	
	MAIL BOX	MAIL
	FENCE	
	POWER VAULT	
	UTILITY POLE	
P	POWER LINE	
T	TELEPHONE LINE	
G	NATURAL GAS LINE	
	TELEPHONE/CABLE RISER	

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) WASHINGTON STATE CHAPTER STANDARD PLANS AND SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE CITY OF FERNDALE STANDARDS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
- UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE TO THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN A REVOCABLE ENCROACHMENT PERMIT FROM THE CITY OF FERNDALE PRIOR TO COMMENCING WORK IN THE RIGHTS-OF-WAY.
- ALL OFF-SITE WORK AND ALL ALL PUBLICLY MAINTAINED ON-SITE WORK MUST BE INSPECTED BY REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE FOR INSPECTIONS AS FOLLOWS:
 - PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
 - PLACEMENT OF WATER LINE AND BACKFILLING OF WATER LINE WITHIN CITY OF FERNDALE EASEMENT OR ROAD RIGHT-OF-WAY.
 - PLACEMENT AND BACKFILLING OF PUBLICLY MAINTAINED UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN EASEMENT OR ROAD RIGHT-OF-WAY.
 - PUBLIC ROADWAY GRADING AT:
 - COMPLETION OF SUBGRADE
 - COMPLETION OF BALLAST
 - COMPLETION OF CRUSHED SURFACING
 - POURING OF CURB/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.
- ALL PRIVATE IMPROVEMENTS WORK MUST BE INSPECTED BY THE ENGINEER OF RECORD OR A DESIGNATED PARTY UNDER THE ENGINEER OF RECORD'S SUPERVISION.
- ALL TESTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS AS FOLLOWS:
 - CURB/GUTTER, SIDEWALK, ROADWAY BASE COMPACTION - MINIMUM 1 TEST EVERY 3 STATIONS, MIN. 2 TESTS PER CATEGORY.
 - CONCRETE CYLINDER COMPRESSION - 1 CYLINDER EVERY THIRD LOAD, MIN. 2 SAMPLES.
 - A.C. PAVING DENSITY
- TESTING OF NEW WATER, SEWER, AND STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.
- UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE AREA OF CONSTRUCTION. THE SHOWN LOCATION OF THE EXISTING UTILITIES IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY OWNERS FOR LOCATIONS AND FIELD VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE (1-800-424-5555) 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL ADJACENT UTILITIES WHICH INCLUDE BUT ARE NOT LIMITED TO: WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, IRRIGATION, AND STREET LIGHTING. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISTURBED BY THE PROJECT UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EXPOSED CUT AND FILL SLOPES SHALL BE SEEDDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL WHILE THE SITE IS UNDER CONSTRUCTION.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL PROVIDE CERTIFIED AS BUILT DATA OF THE IMPROVEMENTS TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- THE ENGINEER SHALL PROVIDE CERTIFIED AS BUILT PLANS OF THE IMPROVEMENTS TO THE PUBLIC WORKS DEPARTMENT UPON COMPLETION OF THE PROJECT. THE ENGINEER OF RECORD SHALL AFFIX A STATEMENT AN THE AS-BUILT DRAWINGS THAT DEFINES WHICH IMPROVEMENTS WERE INSPECTED BY THE ENGINEER OF RECORD AND WHICH IMPROVEMENTS WERE INSPECTED BY THE CITY OF FERNDALE.
- POTABLE WATER IS TO BE PROVIDED BY THE CITY OF FERNDALE. ALL WATER MAINS, HYDRANTS, SERVICES, VALVES, AND ASSORTED APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FERNDALE DEVELOPMENT STANDARDS AND PLANS.
- ALL WATER MAIN PIPE SHALL HAVE A MINIMUM COVER OF 3.5 FEET.
- CONNECTION TO EXISTING CITY WATER SYSTEM SHALL BE A HOT TAP COMPLETED BY THE CONTRACTOR IN THE PRESENCE OF THE CITY INSPECTOR.
- THE CONTRACTOR MUST NOTIFY THE FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTIONS 7-09.3(23) AND 7-09.3(24) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TESTING INSPECTED BY CITY.
- STORM PIPE SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP) AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATION 9-05.20.
- CONTRACTOR SHALL RIP-RAP ALL CULVERT INLETS AND OUTLETS.
- CLEANOUTS SHALL BE INSTALLED ACCORDING TO CITY OF FERNDALE STANDARD DETAIL SS-5. MANHOLES SHALL BE CHanneled.
- MATERIAL AND INSTALLATION SPECIFICATIONS FOR ALL PIPE, EXCEPT CLEANOUTS, SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS (CURRENT EDITION).
- SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM OF THREE FEET (3') OF COVER.
- MANHOLES SHALL CONFORM TO CITY OF FERNDALE STANDARD DETAILS SS-2 THROUGH SS-4.
- FRAMES AND COVERS SHALL CONFORM TO THE CURRENT CITY OF FERNDALE STANDARD DETAIL SS-9.
- PIPE BEDDING SHALL BE PLACED IN ACCORDANCE WITH CITY OF FERNDALE DETAIL SS-1.
- SIDE SEWER INSTALLATION SHALL CONFORM TO CITY OF FERNDALE STANDARD DETAILS SS-8 THROUGH SS-13. DOUBLE SERVICES SHALL CONFORM TO CITY OF FERNDALE DETAIL SS-13.
- CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DEPT. OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL KEEP RECORD OF DEVIATIONS AND FORWARD TO THE ENGINEER AND THE CITY OF FERNDALE.
- DEVELOPER/CONTRACTOR SHALL POST A MAINTENANCE SECURITY AS REQUIRED BY THE CITY OF FERNDALE.

SURVEYOR'S CERTIFICATION

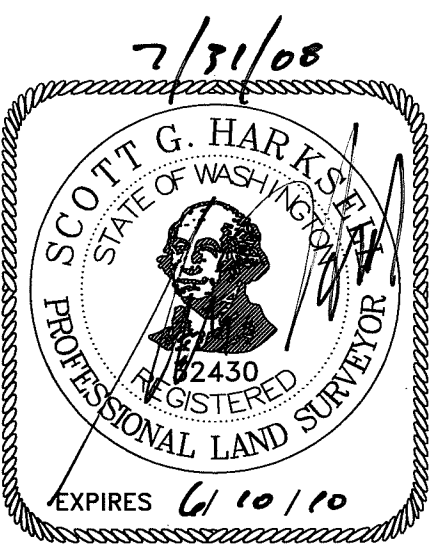
I CERTIFY THAT ON 11/21/07 A FIELD AS-BUILT SURVEY WAS PERFORMED AT TRIGG WOODS BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY, INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD BOOK NOTES WERE SUBMITTED TO MILLENNIUM ENGINEERING GROUP, INC. ON 05/07/08 FOR USE IN PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.090.

7/5/08

34846

31 MAY 08

SURVEYOR NAME & LICENSE NUMBER DATE



ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN TRIGG WOODS HAVE BEEN INSPECTED BY MILLENNIUM ENGINEERING GROUP, INC. 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. SURVEY DATA SUPPLIED BY COMPASS POINT SURVEY GROUP, INC. RECEIVED BY THIS OFFICE ON 05/07/08 WAS USED TO PREPARE THESE AS-BUILT PLANS.

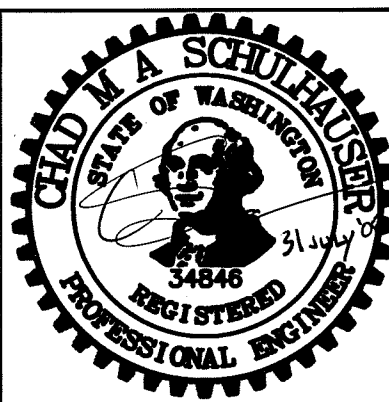
34846

31 MAY 08

ENGINEER NAME & LICENSE NUMBER DATE

DATUM

VERTICAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
NAVD-83/91
BASIS OF BEARINGS
CITY OF FERNDALE SURVEY MONUMENT NETWORK



MILLENNIUM Engineering Group, Inc.

109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS

COVER SHEET

CITY OF FERNDALE PROJECT NUMBER LP-2006-08

FOR
TRIGG ROAD LLC

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

AS-BUILT

SCALE:
DATE: 05/09/08
DRAWN BY: LLC
REVIEWED: 07/31/08
SHEET:
1 OF 15
JOB NUMBER:
05020

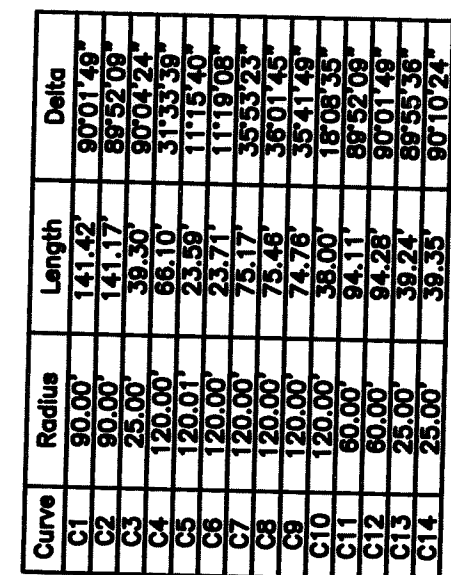
CALL BEFORE
YOU DIG
1-800-424-5555

NOTES

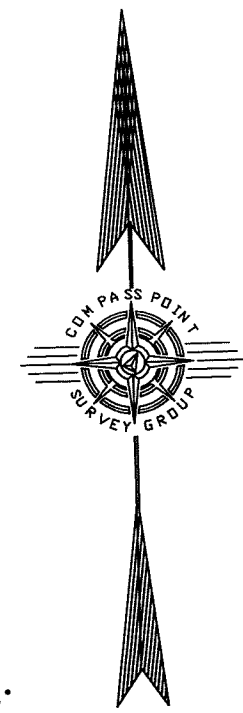
- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

PORTION OF THE NE 1/4, NW 1/4, SECTION 17, TOWNSHIP 39 NORTH, RANGE 2 EAST OF W.M.
WITHIN THE CITY OF FERDALE, WHATCOM COUNTY, WASHINGTON

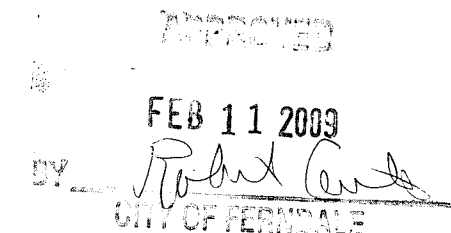
AD



COMPASS POINT
SURVEY GROUP INC.



I CERTIFY THAT ON 11/21/07 A FIELD AS-BUILT SURVEY WAS PERFORMED AT TRIGG WOODS BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY, INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD BOOK NOTES, WERE SUBMITTED TO MILLENNIUM ENGINEERING GROUP, INC. ON 05/07/08 FOR USE IN PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.090.



AS-BUILT

SCALE:	1" = 40'
DATE:	05/09/08
DRAWN BY:	LLCP
REVISED:	07/31/08
SHEET:	2 OF 15
JOB NUMBER:	05020

SUBDIVISION PLAN

CITY OF FERNDALE PROJECT NUMBER LP-2006-08

FOR
ROAD LLC

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001eqi.com www.2001eqi.com

MILLENNIUM
Engineering Group, Inc.

109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001eqi.com www.2001eqi.com

DATUM
VERTICAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
NAD-83/91

BASIS OF BEARINGS
CITY OF FERNDALE SURVEY MONUMENT NETWORK

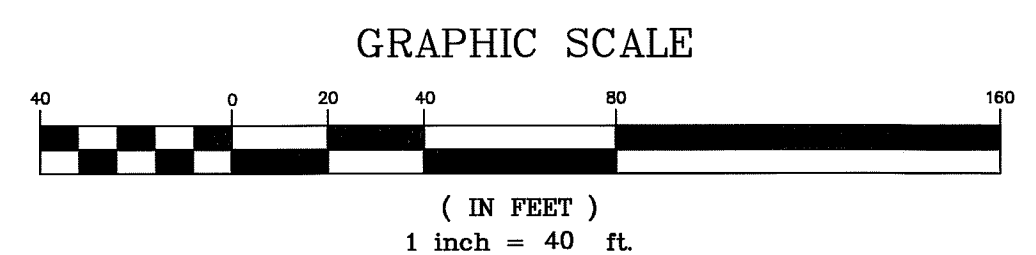
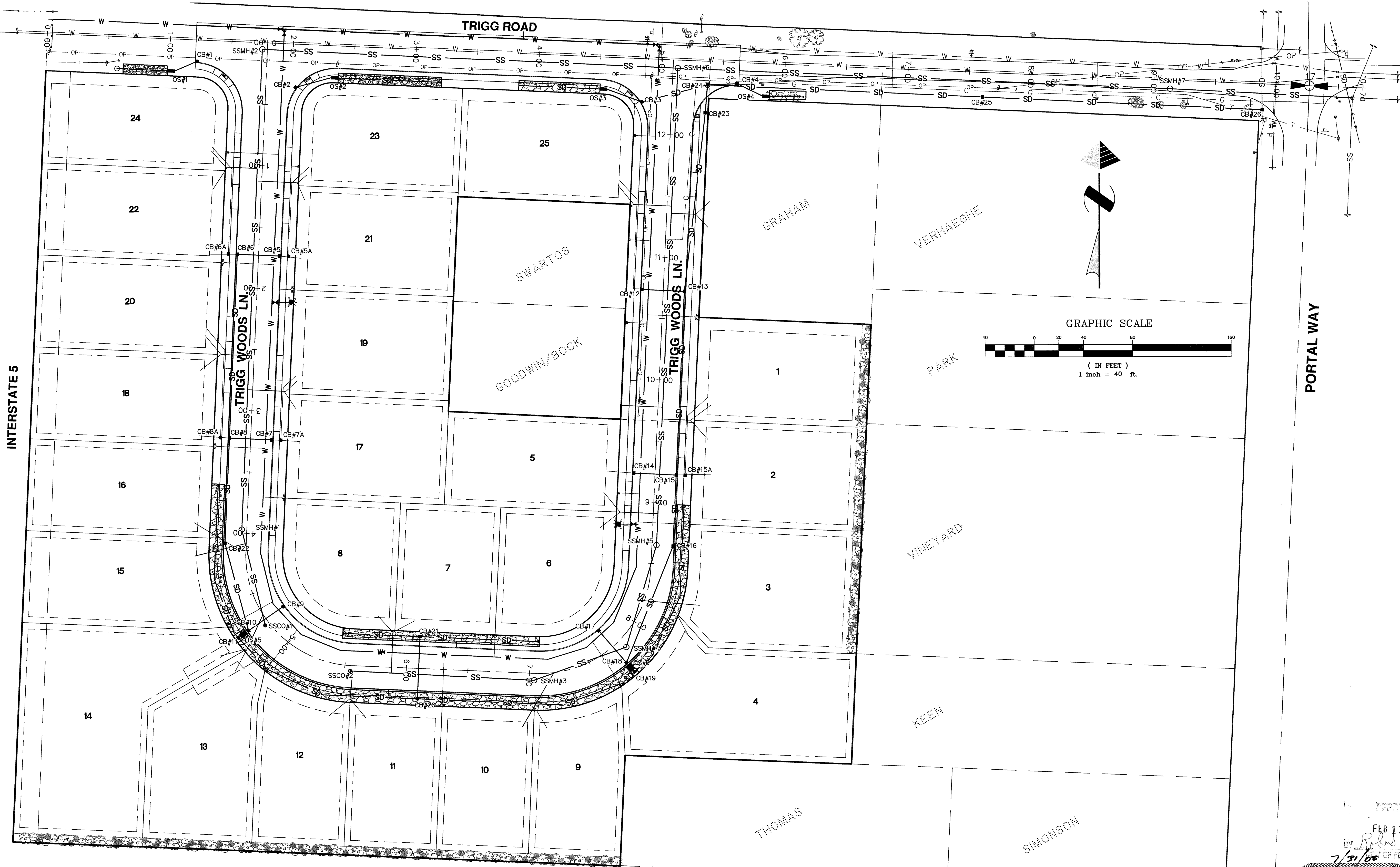
ENGINEER'S CERTIFICATION		DATUM	
I HEREBY CERTIFY THAT THE IMPROVEMENTS IN TRIGG WOODS HAVE BEEN INSPECTED BY MILLENNIUM ENGINEERING GROUP, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, ORDINANCES, AND SUBSEQUENT STANDARDS ADOPTED THEREAFTER. I HAVE REFERENCED THEREIN, AND STANDARD ENGINEERING PRACTICE. SURVEY DATA SUPPLIED BY COMPASS POINT SURVEY GROUP, INC. RECEIVED BY THIS OFFICE ON 05/07/06 WAS USED TO REFERENCE/RE-AS-BUILT PLANS.		CITY OF FERNDALE SURVEY MONUMENT NETWORK MON. NO. = EL-70-19 NAVD-83 CITY OF FERNDALE SURVEY MONUMENT NETWORK NAVD-83/91	
ENGINEER NAME & LICENSE NUMBER <u>34846</u>		BASIS OF BEARINGS	
DATE <u>31 July 06</u>		CITY OF FERNDALE SURVEY MONUMENT NETWORK	

NOTES

1. EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
3. AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

CALL BEFORE
YOU DIG
1-800-424-5555

7 8
18 17



PORTAL WAY

INTERSTATE 5

TRIGG ROAD

TRIGG WOODS LN.

GOODWIN/BOCK

GRAHAM

VERHAEGHE

PARK

VINEYARD

KEEN

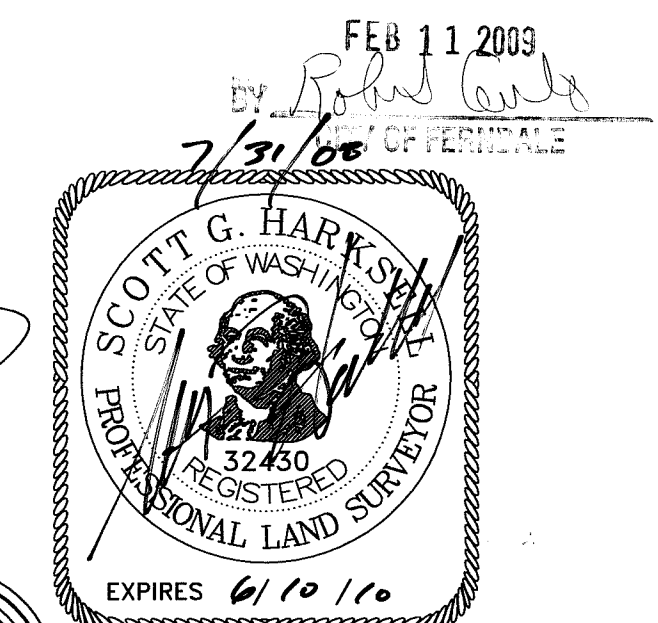
THOMAS

SIMONSON

DOUGLAS

WEST QUARTER CORNER: PER RECORD
OF SURVEY FILED UNDER A.F.
No.900123116

SURVEYOR'S CERTIFICATION
I CERTIFY THAT ON 11/21/07 A FIELD AS-BUILT SURVEY WAS PERFORMED AT TRIGG WOODS BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY, INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD BOOK NOTES WERE SUBMITTED TO MILLENNIUM ENGINEERING GROUP, INC. ON 05/07/08 FOR USE IN PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.080.
SURVEYOR NAME & LICENSE NUMBER: 32430 DATE: 7/31/08



CALL BEFORE
YOU DIG
1-800-424-5555

NOTES

- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

ENGINEER'S CERTIFICATION

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ENGINEER NAME & LICENSE NUMBER: 34846 DATE: 31 July 08

DATUM

VERTICAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
MOM, No. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
NAVD-83/91
BASIS OF BEARINGS
CITY OF FERDALE SURVEY MONUMENT NETWORK



MILLENNIUM
Engineering Group, Inc.

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PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS
SITE UTILITY PLAN
CITY OF FERDALE PROJECT NUMBER LP-2006-08
FOR
TRIGG ROAD LLC
PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERDALE, WHATCOM COUNTY, WASHINGTON

AS-BUILT
SCALE: 1" = 40'
DATE: 05/09/08
DRAWN BY: LLC
REVISOR: 07/31/08
SHEET: **3 OF 15**
JOB NUMBER: 05020

CALL BEFORE
YOU DIG
1-800-424-5555

- NOTES**
- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
 - AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

ENGINEER'S CERTIFICATION

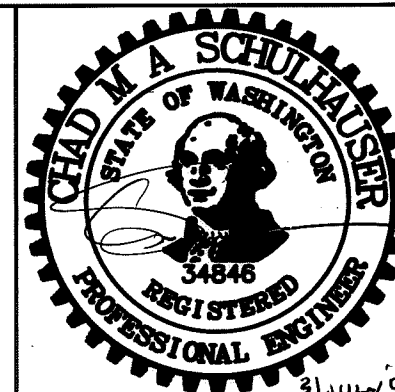
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3484
ENGINEER NAME & LICENSE NUMBER

31 JULY 08
DATE

DATUM
VERTICAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL = 70.19
NGVD-29
HORIZONTAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
NAVD-83/91

BASIS OF BEARINGS
CITY OF FERDALE SURVEY MONUMENT NETWORK



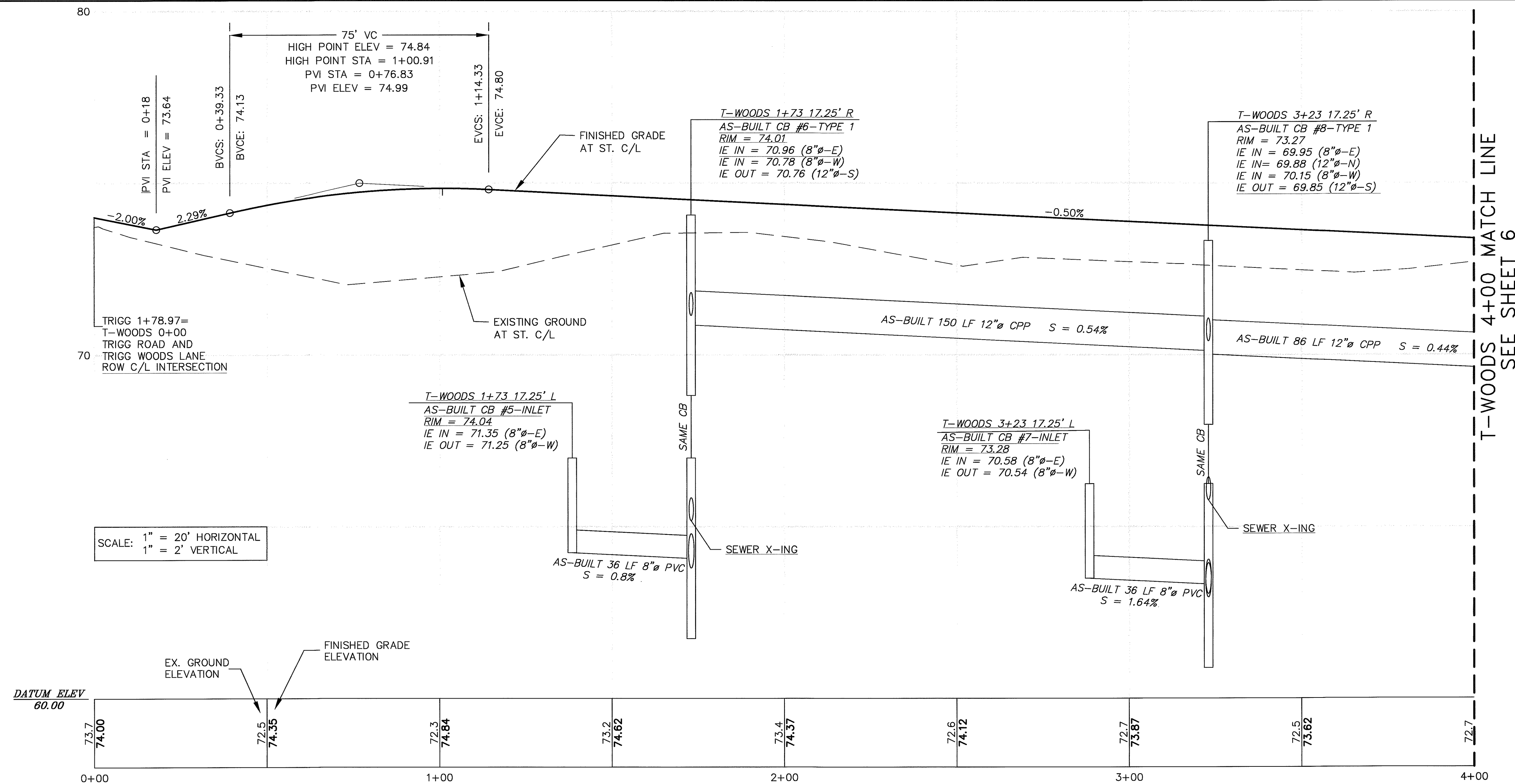
MILLENNIUM
Engineering Group, Inc.

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PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS
**TRIGG WOODS LANE 0+00 TO 4+00
STREET AND STORM**
CITY OF FERDALE PROJECT NUMBER LP-2006-08

FOR
TRIGG ROAD LLC
PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERDALE, WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 20'
DATE: 05/09/08
DRAWN BY: LLCP
REVIEWED: 07/31/08
5 OF 15
JOB NUMBER:
05020

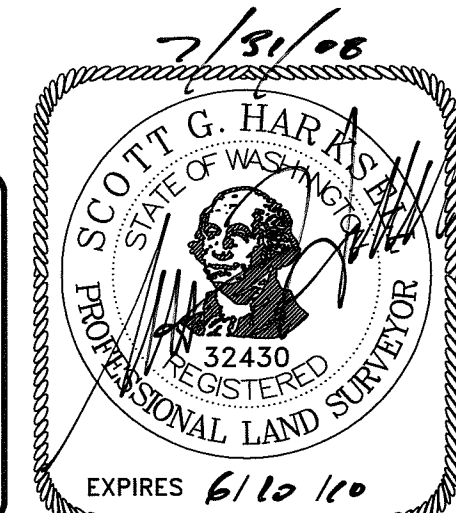


SURVEYOR'S CERTIFICATION

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32730
SURVEYOR NAME & LICENSE NUMBER

7/31/08
DATE

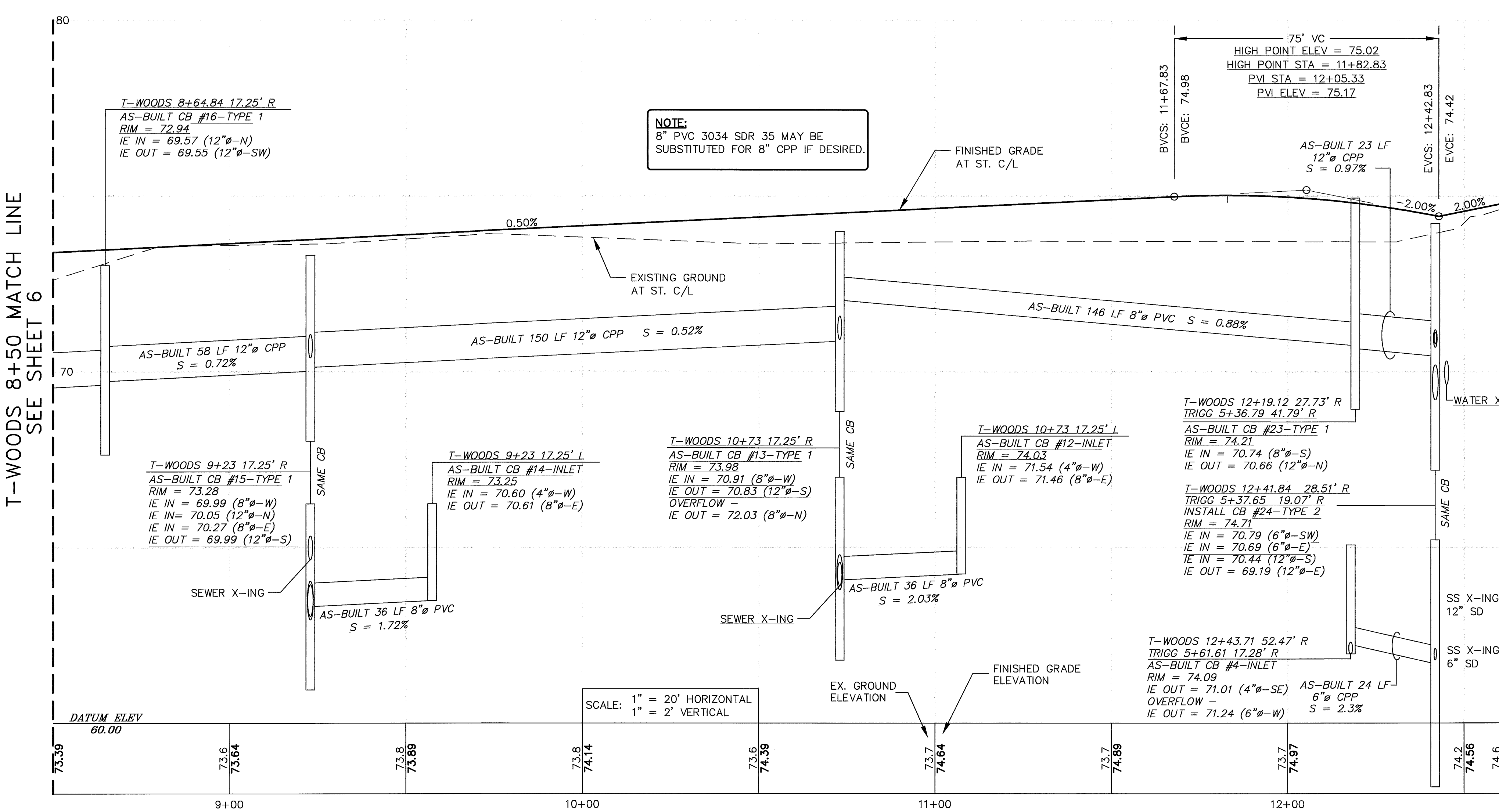
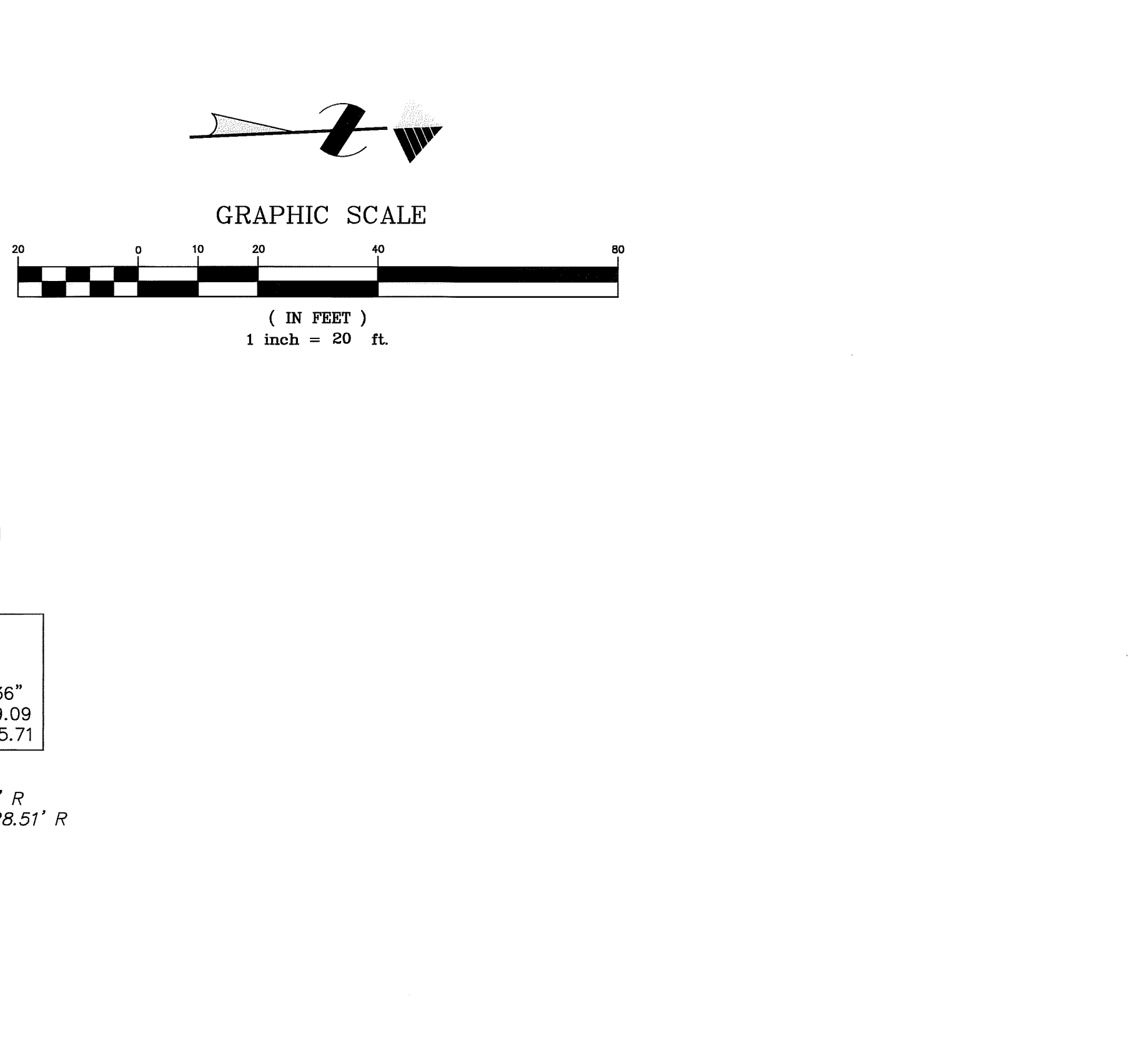
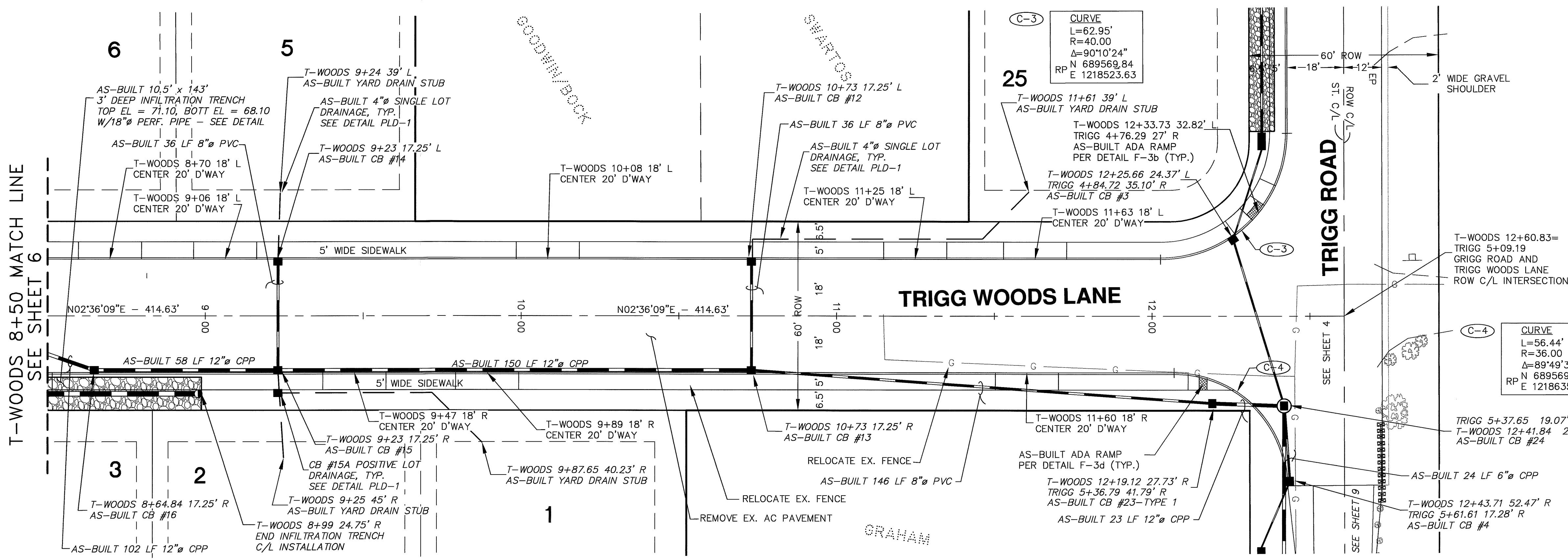


APPROVED
FEB 11 2009
BY: [Signature]
CITY OF FERDALE

AS-BUILT

003918.005 7.869 DD

03/29/08 12:09 PM



SURVEYOR'S CERTIFICATION

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Harold J. Peterfeso 32430
SURVEYOR NAME & LICENSE NUMBER DATE: 7/31/08

NOTES

- Avoid placing drainage structures, junction boxes or other obstructions in front of ramp access areas.
- Detectable warning patterns may be created by any method that will achieve the truncated dome dimensions and spacing shown.
- Curb and gutter shown, see the Contract Plans for the curb design specified. See Std. Plan F-1 for curb details.
- See Std. Plan F-3 for sidewalk joint placement and details.
- Ramp slopes shall not be steeper than 12:1V.

TABLE

RADIUS (AT CURB FACE)	X	Y
20 FEET	0' - 1 3/4"	2' - 7 1/4"
30 FEET	7' - 11 3/4"	4' - 8 1/4"
40 FEET	9' - 5 1/4"	6' - 5"
50 FEET	10' - 8 3/4"	7' - 11 1/4"
60 FEET	11' - 10 1/4"	9' - 3 1/2"
70 FEET	12' - 10 3/4"	10' - 6 3/4"
80 FEET	13' - 10 1/2"	11' - 8 3/4"
90 FEET	14' - 5 1/4"	12' - 9 3/4"
100 FEET	15' - 7 1/2"	13' - 10 1/4"

INTERMEDIATE RADII CAN BE INTERPOLATED

DETAILS

DETECTABLE WARNING PATTERN AREA
SHALL BE YELLOW IN COMPLIANCE WITH STD. SPEC. 814-2.33

ISOMETRIC VIEW

TRUNCATED DOMES (SEE NOTE 2) DETECTABLE WARNING PATTERN DETAIL

SIDWALK RAMP TYPE 4A
PLAN
SECTION A
SECTION B
SECTION C

CALL BEFORE
YOU DIG
1-800-424-5555

- NOTES**
- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
 - AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN TRIGG WOODS HAVE BEEN INSPECTED BY MILLENNIUM ENGINEERING GROUP, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE. SURVEY DATA SUPPLIED BY COMPASS POINT SURVEY GROUP, INC. RECEIVED BY THIS OFFICE ON 05/07/08 WAS USED TO PREPARE THESE AS-BUILT PLANS.

ENGINEER NAME & LICENSE NUMBER: 34846
DATE: 31 July 08

DATUM
VERTICAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL = 70.19
NGVD-29
HORIZONTAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
NAVD-83/91

BASIS OF BEARINGS
CITY OF FERDALE SURVEY MONUMENT NETWORK



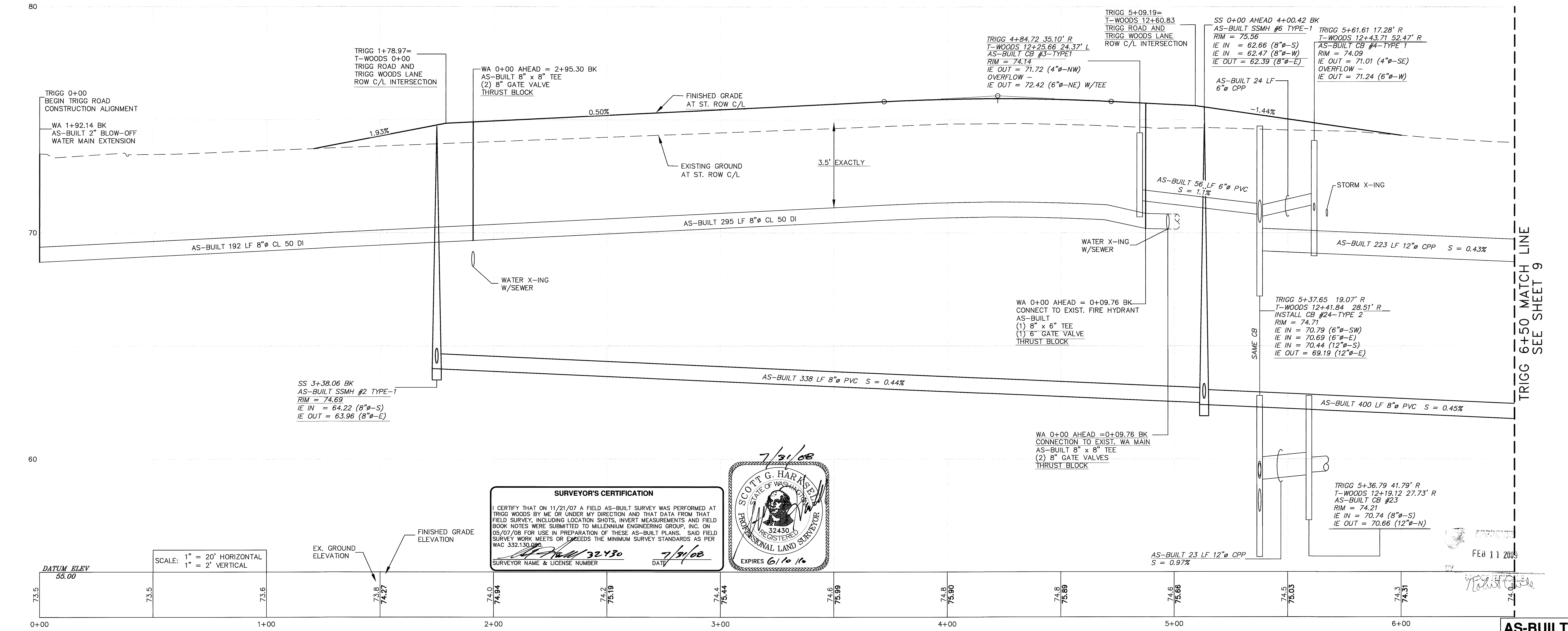
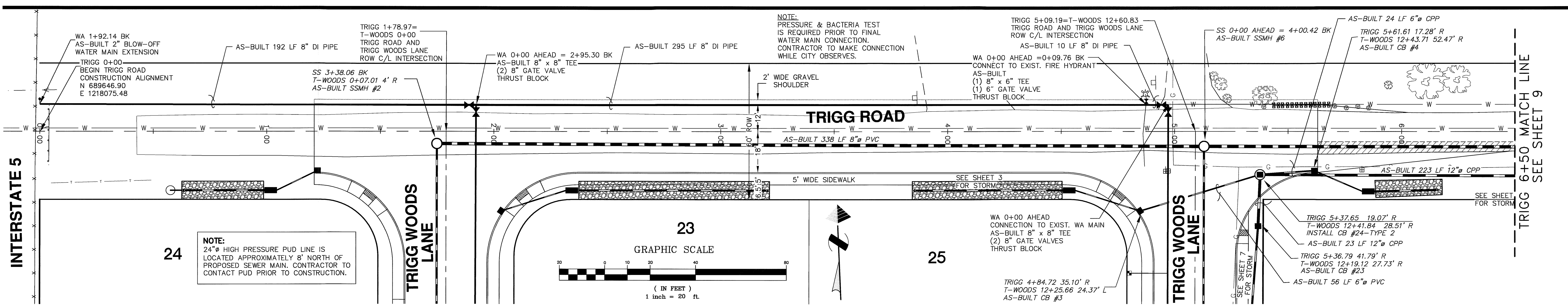
MILLENNIUM Engineering Group, Inc.

109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS
TRIGG WOODS LANE 8+50 TO END STREET AND STORM
CITY OF FERDALE PROJECT NUMBER LP-2006-08

FOR
TRIGG ROAD LLC
PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERDALE, WHATCOM COUNTY, WASHINGTON

AS-BUILT
SCALE: 1" = 20'
DATE: 05/09/08
DRAWN BY: LLC
REVIEWED: 07/31/08
SHEET: 7 OF 15
JOB NUMBER: 05020



CALL BEFORE
YOU DIG
1-800-424-5555

- NOTES**
- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
 - AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

ENGINEER'S CERTIFICATION

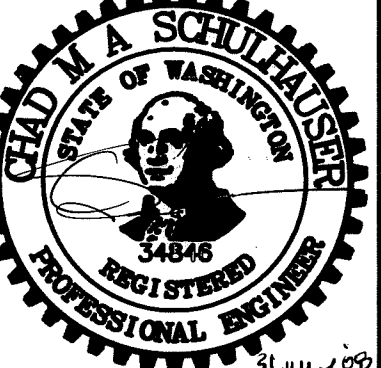
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34846
ENGINEER NAME & LICENSE NUMBER

31 July 08
DATE

DATUM
VERTICAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
NAVD-83/91

BASIS OF BEARINGS
CITY OF FERNDALE SURVEY MONUMENT NETWORK



MILLENNIUM
Engineering Group, Inc.

109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

FLAT OF TRIGG WOODS
TRIGG ROAD 0+00 TO 6+50
SEWER, WATER AND
TRIGG ROAD 5+37 TO 6+50 STORM
CITY OF FERNDALE PROJECT NUMBER LP-2006-08

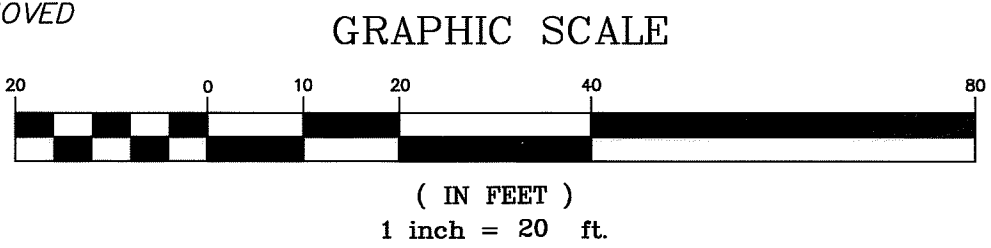
FOR
TRIGG ROAD LLC

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 20'
DATE: 05/09/08
DRAWN BY: LLCP
REVIEWED: 07/31/08
SHEET: 8 OF 15
JOB NUMBER: 05020

00388.00 7.8.09 DP

NOTE:
24"Ø HIGH PRESSURE PUD LINE IS
LOCATED APPROXIMATELY 8' NORTH OF
PROPOSED SEWER MAIN. CONTRACTOR TO
CONTACT PUD PRIOR TO CONSTRUCTION.



PORTAL WAY

SS 0+00 AHEAD = 1+48.30 BK
AS-BUILT SSMH #7

TRIGG 10+70
END TRIGG ROAD
CONSTRUCTION ALIGNMENT
N 689603.40
E 1219100.94

SAWCUT 570 LF OF
EX. AC PAVEMENT

REMOVE AND REPAIR PAVEMENT
PER DETAIL R-11

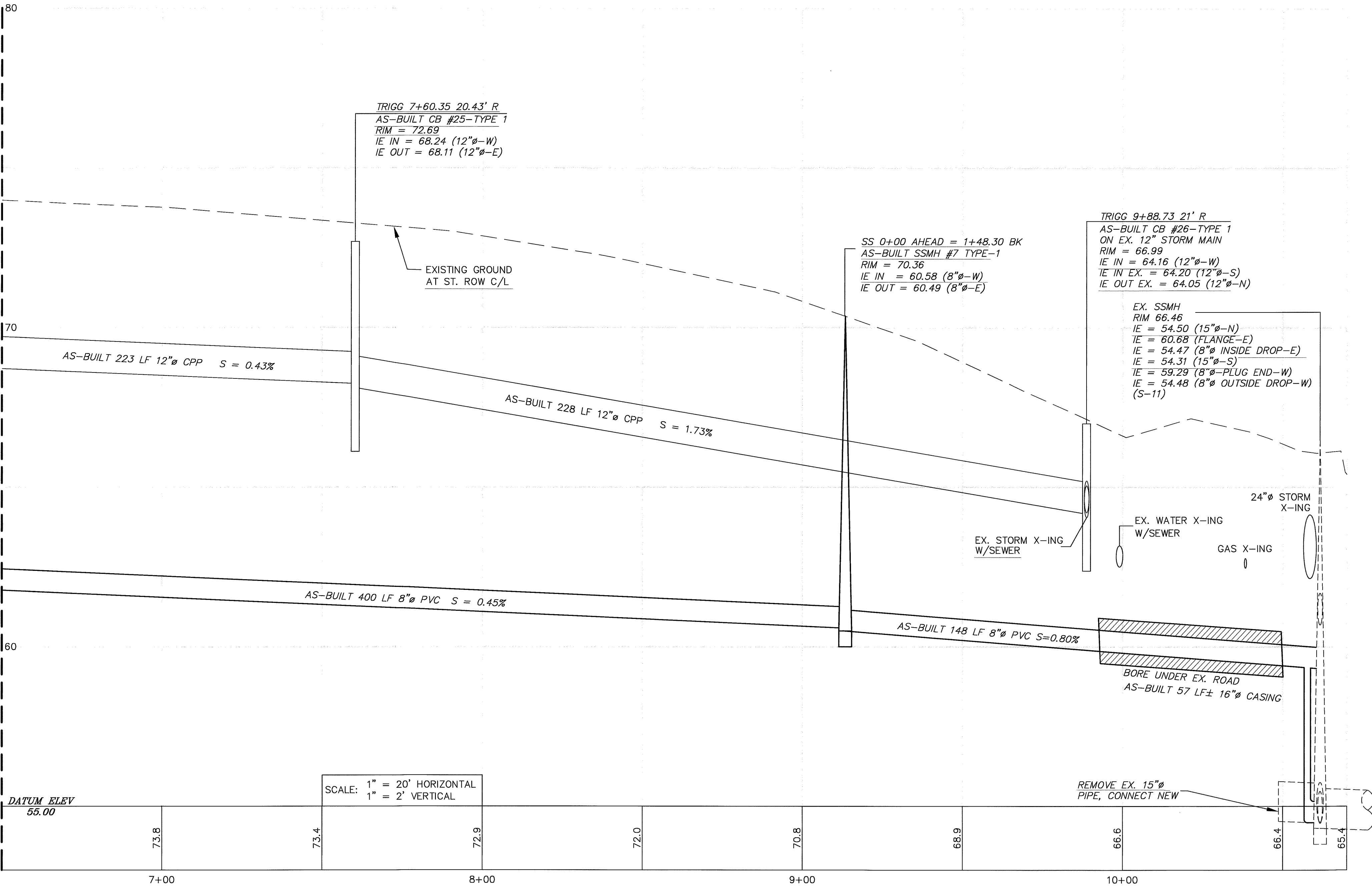
SAWCUT 570 LF OF
EX. AC PAVEMENT

TRIGG 7+60.35 20.43' R
AS-BUILT CB #25

TRIGG 9+88.73 21' R
AS-BUILT CB #26
ON EX. 12" STORM MAIN

SS 0+00 AHEAD
EX. SSMH

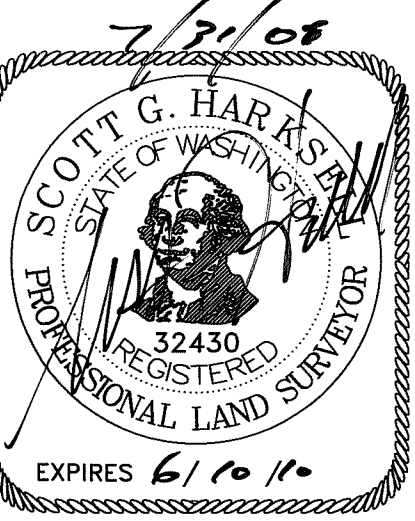
EX. PIPE TO BE REMOVED



SURVEYOR'S CERTIFICATION

I CERTIFY THAT ON 11/21/07 A FIELD AS-BUILT SURVEY WAS PERFORMED AT TRIGG WOODS BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY, INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD BOOK NOTES WERE SUBMITTED TO MILLENNIUM ENGINEERING GROUP, INC. ON 05/07/08 FOR USE IN PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.090.

Scott G. Harkins 32430
SURVEYOR NAME & LICENSE NUMBER DATE: 7/31/08



FEB 11 2009
CITY OF FERNDALE

AS-BUILT

CALL BEFORE
YOU DIG
1-800-424-5555

NOTES

- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

ENGINEER'S CERTIFICATION

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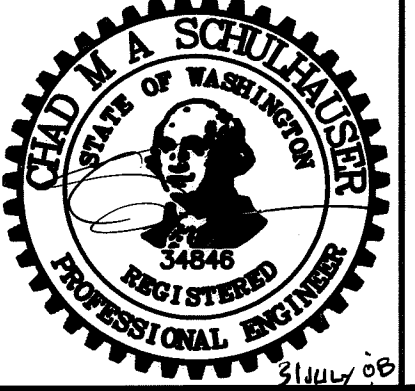
Scott G. Harkins 32430
ENGINEER NAME & LICENSE NUMBER DATE: 7/31/08

DATUM

VERTICAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
HORIZONTAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
NAVD-83/91

BASIS OF BEARINGS

CITY OF FERNDALE SURVEY MONUMENT NETWORK



MILLENNIUM
Engineering Group, Inc.

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PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

FLAT OF TRIGG WOODS
TRIGG ROAD 6+50 TO END
SEWER AND STORM

CITY OF FERNDALE PROJECT NUMBER LP-2006-08

FOR
TRIGG ROAD LLC

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

SCALE: 1" = 20'

DATE: 05/09/08

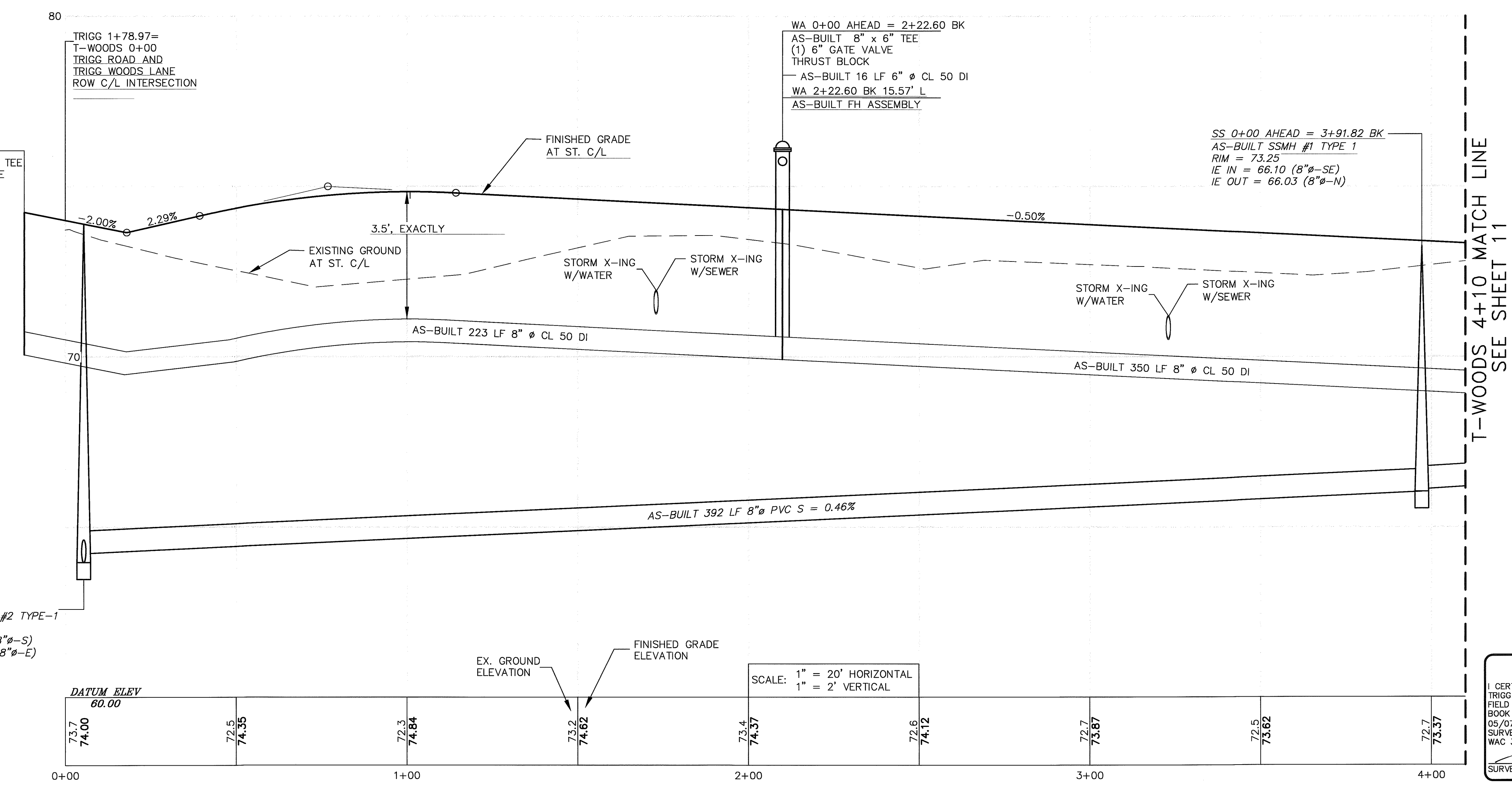
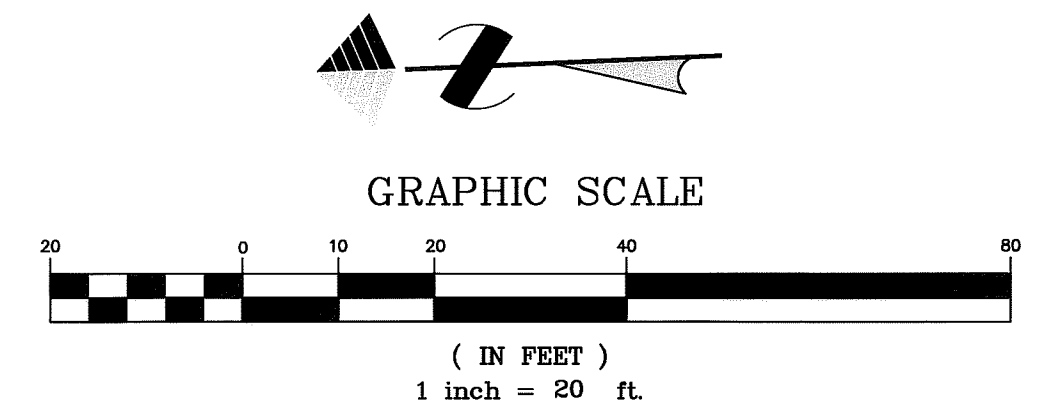
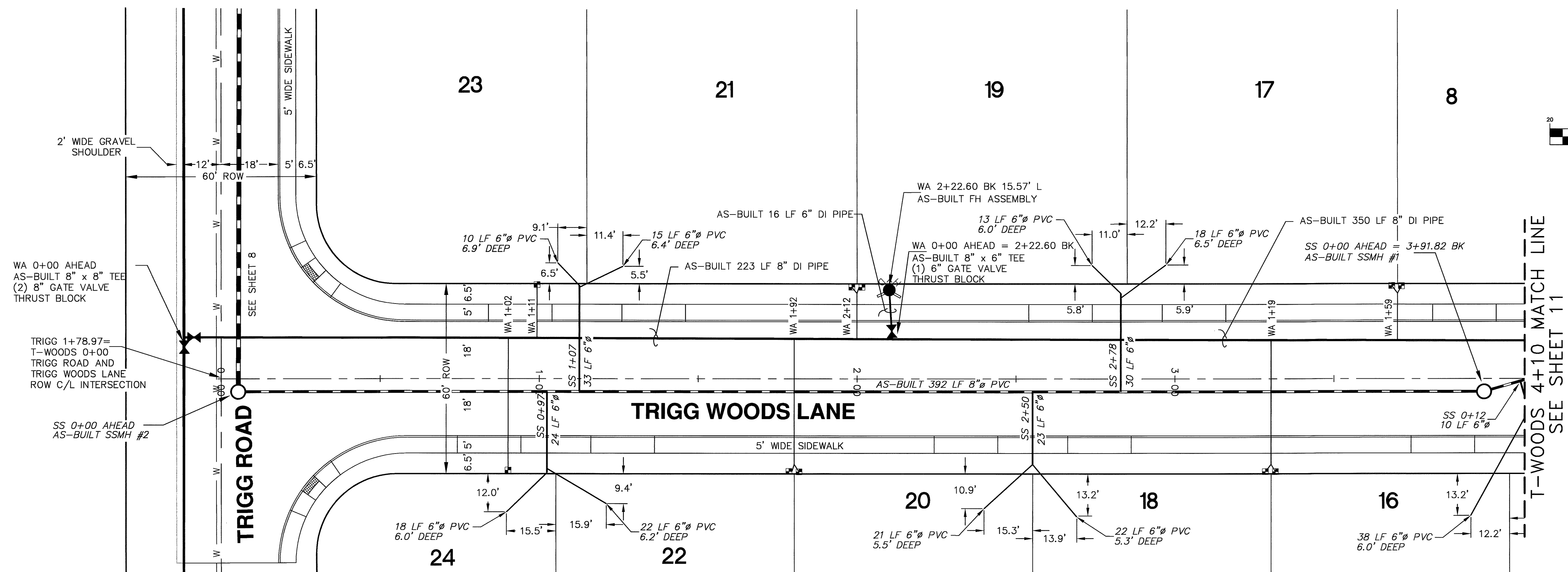
DRAWN BY: LLCP

REVISION: 07/31/08

SHEET: 9 OF 15

JOB NUMBER: 05020

0038010 7.809 DD



CALL BEFORE
YOU DIG
1-800-424-5555

- NOTES**
- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
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ENGINEER NAME & LICENSE NUMBER: 34846 DATE: 21 July 08

DATUM
VERTICAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
NAVD-83/91
BASIS OF BEARINGS
CITY OF FERDALE SURVEY MONUMENT NETWORK



MILLENNIUM Engineering Group, Inc.

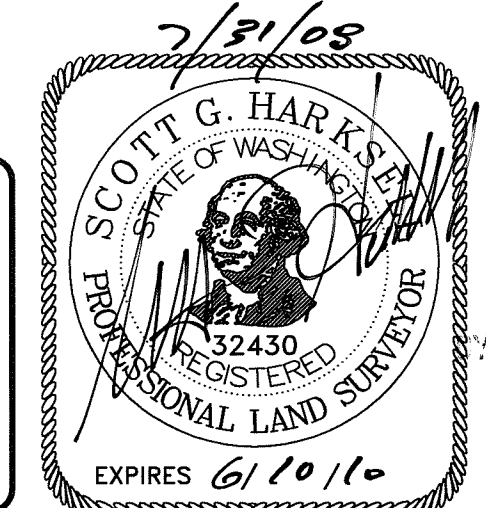
109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS		SCALE: 1" = 20'
TRIGG WOODS LANE 0+00 TO 4+10		DATE: 05/09/08
SEWER AND WATER		DRAWN BY: LLC
CITY OF FERDALE PROJECT NUMBER LP-2006-08		REVISION: 07/31/08
FOR TRIGG ROAD LLC		SHEET: 10 OF 15
PTN. NW1/4, SEC.17, T39N, R2E, W.M.		JOB NUMBER: 05020
CITY OF FERDALE, WHATCOM COUNTY, WASHINGTON		

SURVEYOR'S CERTIFICATION

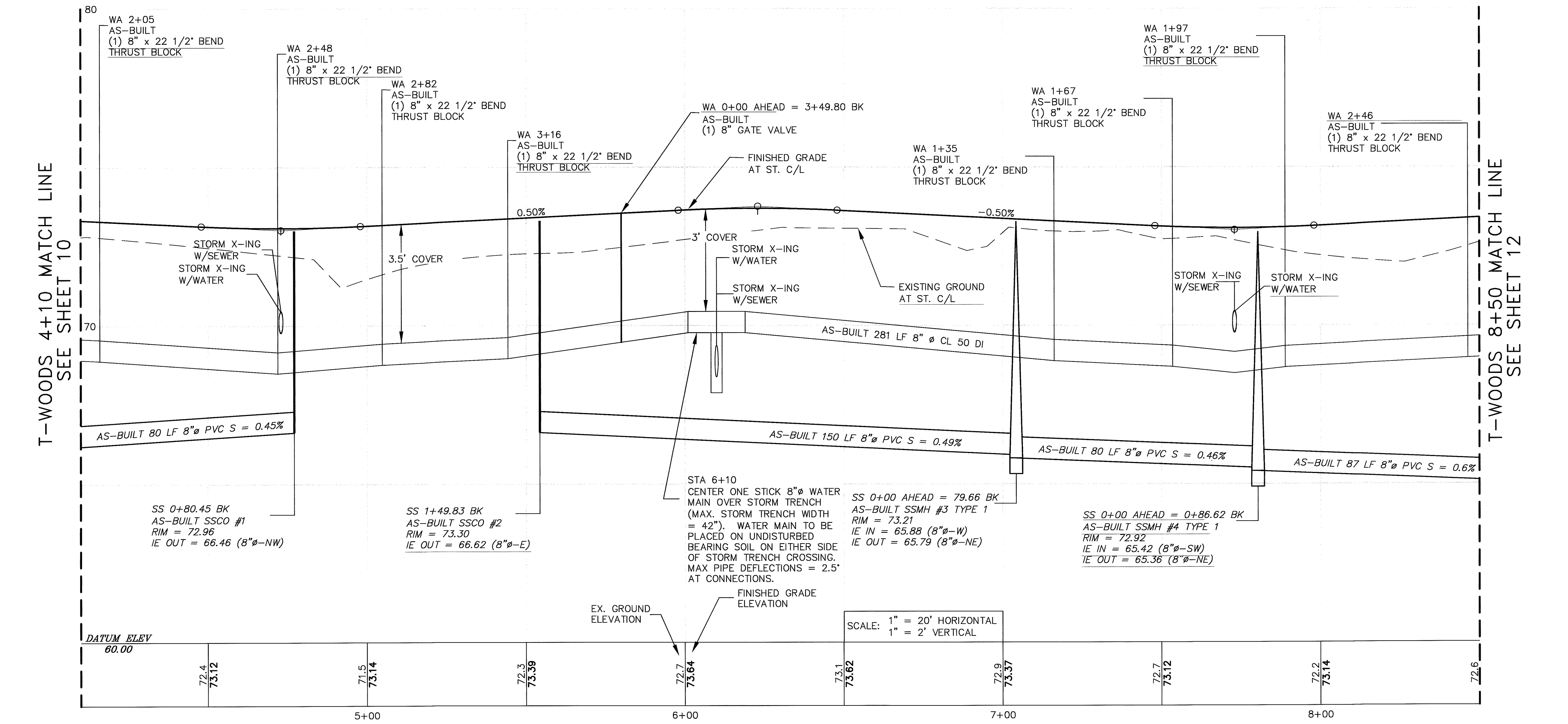
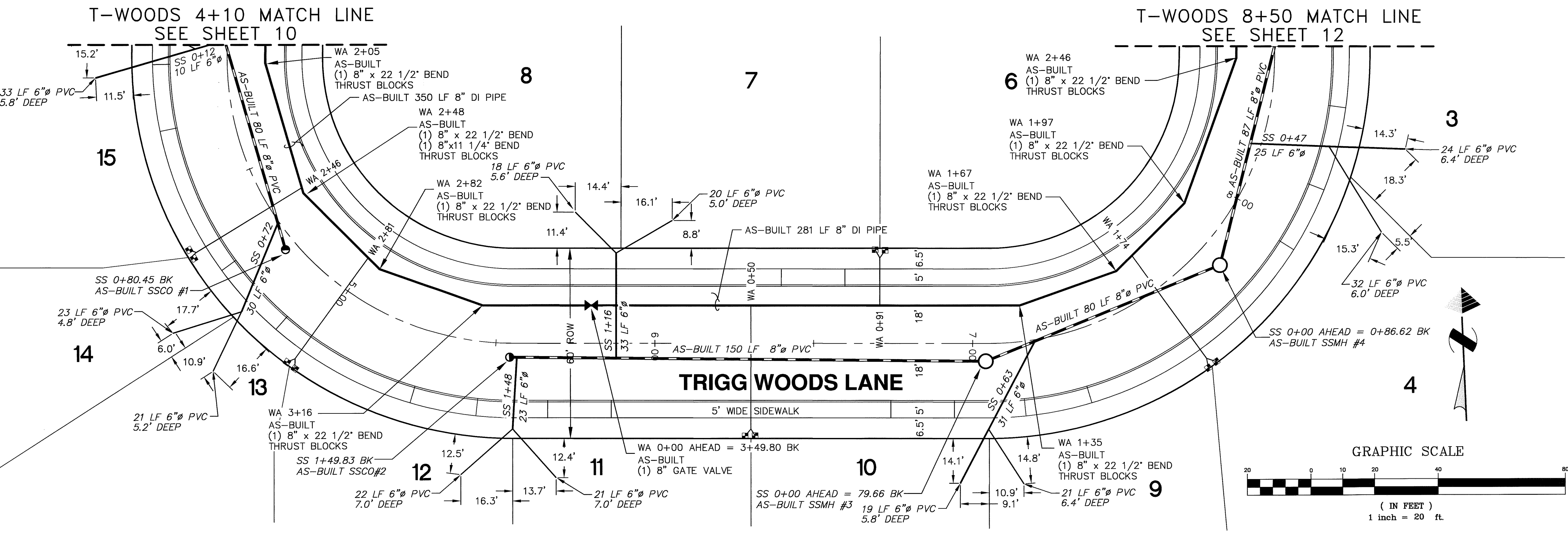
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SURVEYOR NAME & LICENSE NUMBER: 32850 DATE: 7/31/08



FEB 11 2009
CITY OF FERDALE

00 388.011 7.8.09 DD



CALL BEFORE
YOU DIG
1-800-424-5555

- NOTES**
- EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
 - AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

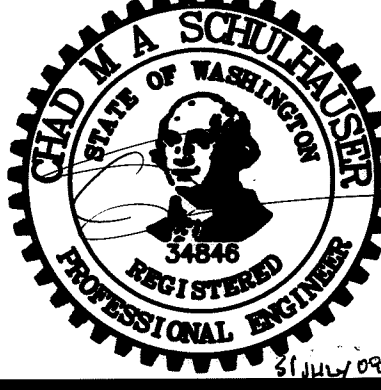
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ENGINEER NAME & LICENSE NUMBER: 34046 DATE: 31 July 08

DATUM
VERTICAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
NAVD-83/91

BASIS OF BEARINGS
CITY OF FERNDALE SURVEY MONUMENT NETWORK



MILLENNIUM
Engineering Group, Inc.

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PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS
TRIGG WOODS LANE 4+10 TO 8+50
SEWER AND WATER
CITY OF FERNDALE PROJECT NUMBER LP-2006-08

FOR
TRIGG ROAD LLC

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

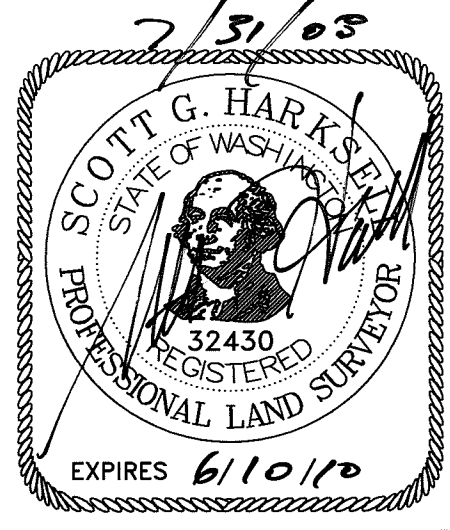
AS-BUILT

SCALE: 1" = 20'
DATE: 05/09/08
DRAWN BY: LLC
REVIEWED: 07/31/08
SHEET: 11 OF 15
JOB NUMBER: 05020

SURVEYOR'S CERTIFICATION

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SURVEYOR NAME & LICENSE NUMBER: 34046 DATE: 7/31/08



APPROVED
FEB 11 2009
CITY OF FERNDALE

T-WOODS 8+50 MATCH LINE
SEE SHEET 11

T-WOODS 8+50 MATCH LINE
SEE SHEET 11

CALL BEFORE
YOU DIG
1-800-424-5555

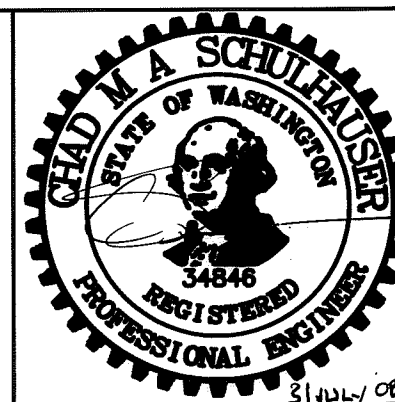
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ENGINEER NAME & LICENSE NUMBER 34846 DATE 31 July 08

DATUM
VERTICAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NGVD-29
HORIZONTAL
CITY OF FERNDALE SURVEY MONUMENT NETWORK
NAVD-83/91
BASIS OF BEARINGS
CITY OF FERNDALE SURVEY MONUMENT NETWORK

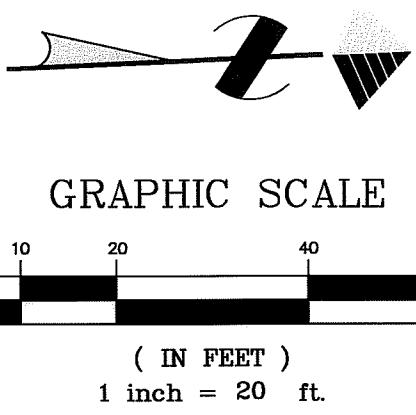
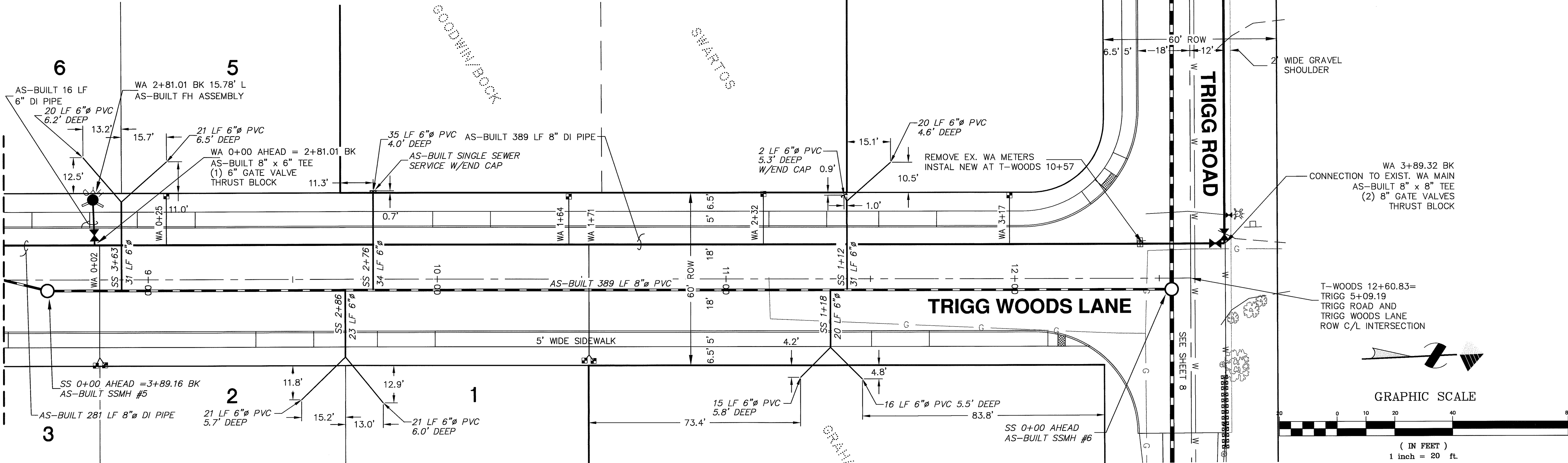
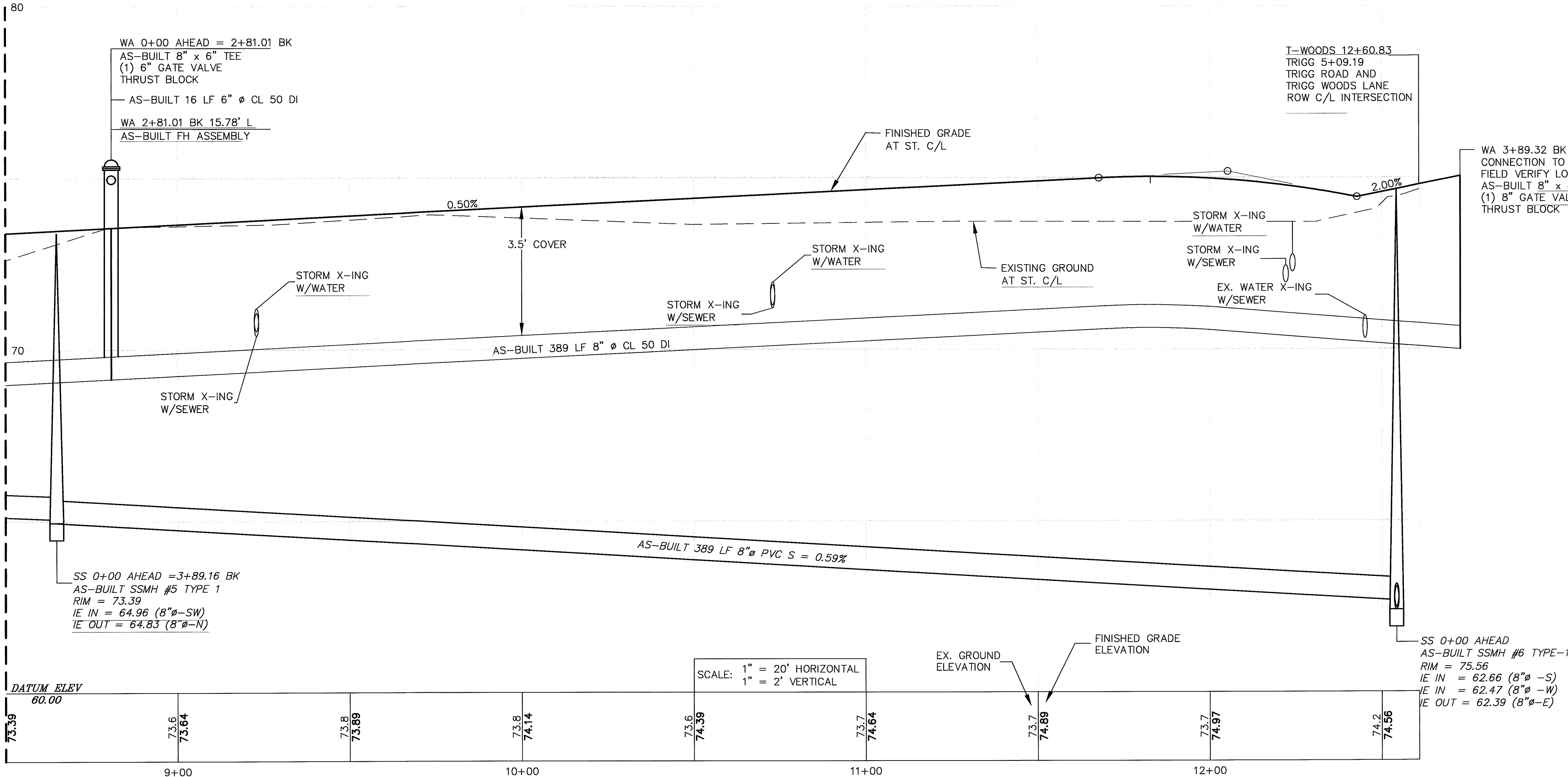


MILLENNIUM
Engineering Group, Inc.

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PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

PLAT OF TRIGG WOODS
**TRIGG WOODS LANE 8+50 TO END
SEWER AND WATER**
CITY OF FERNDALE PROJECT NUMBER LP-2006-08
FOR
TRIGG ROAD LLC
PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

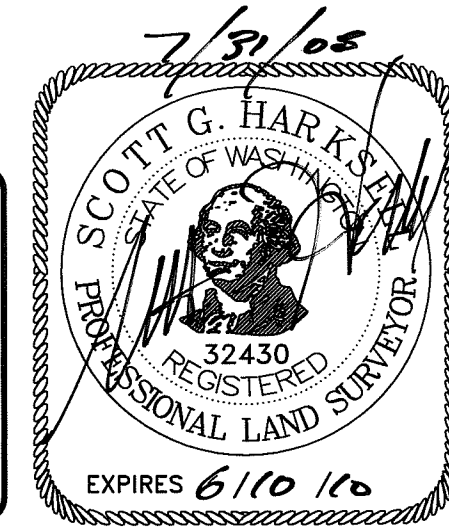
SCALE: 1" = 20'
DATE: 05/09/08
DRAWN BY: LLCP
REVIEWED: 07/31/08
SHEET:
12 OF 15
JOB NUMBER:
05020



SURVEYOR'S CERTIFICATION

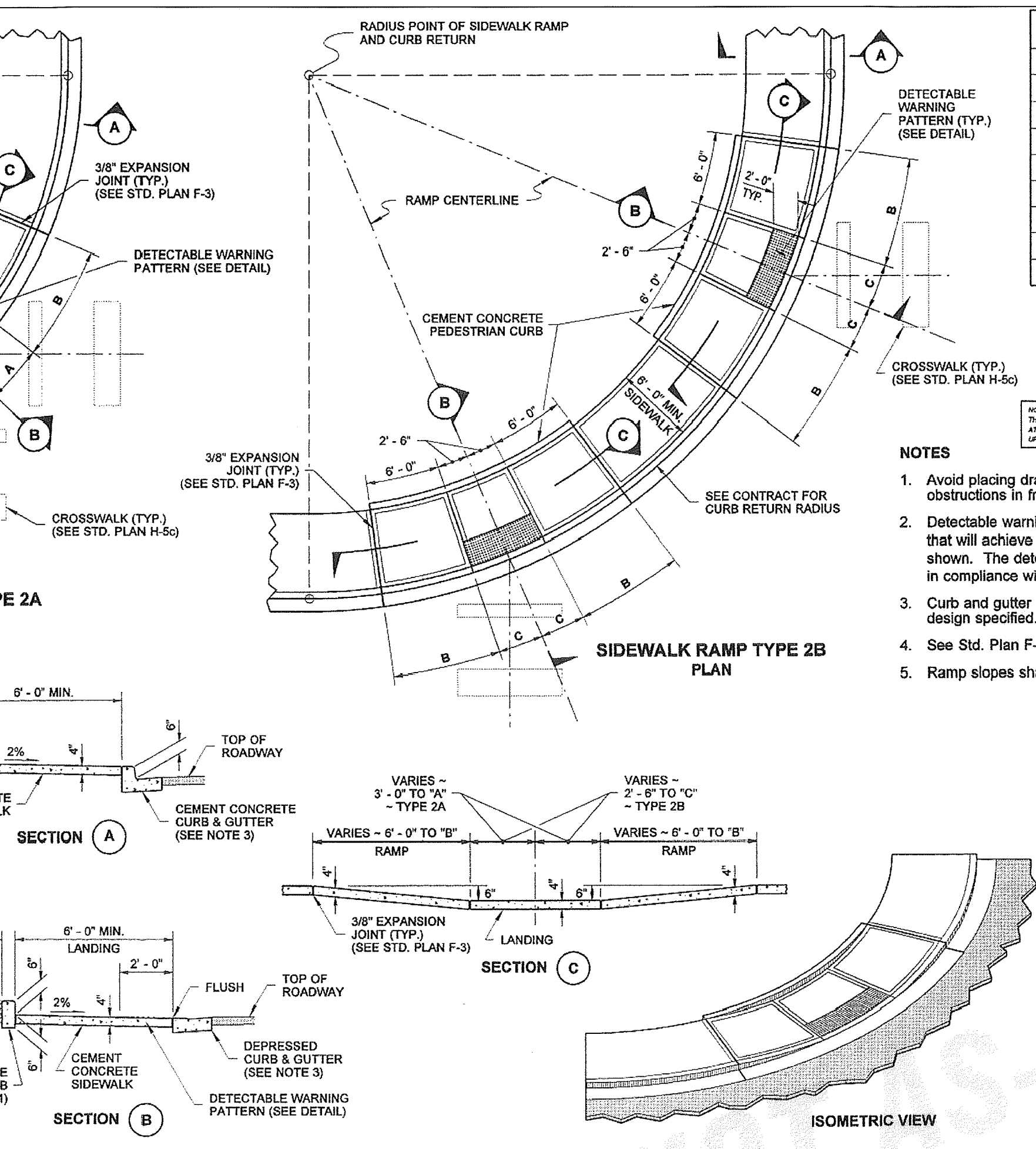
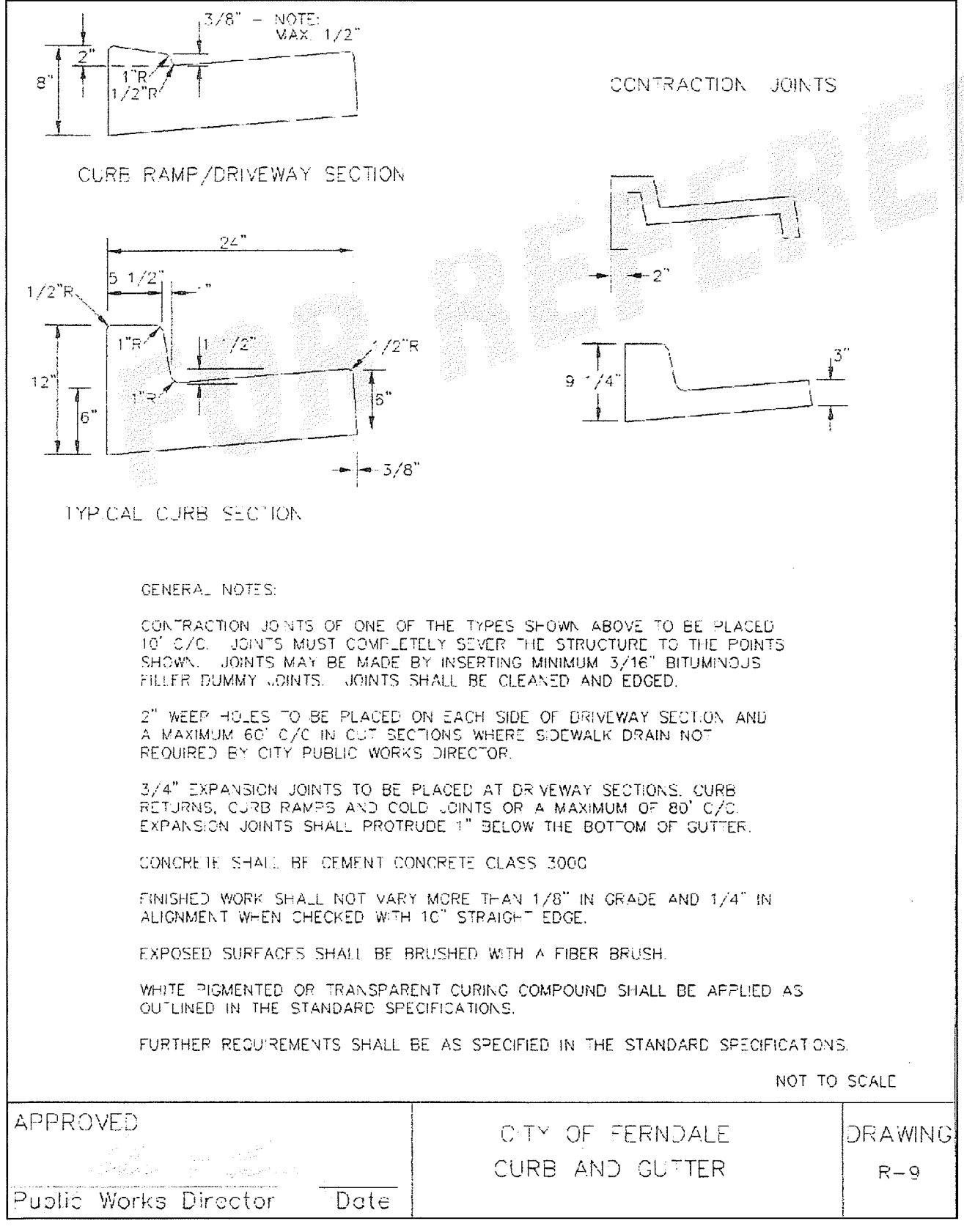
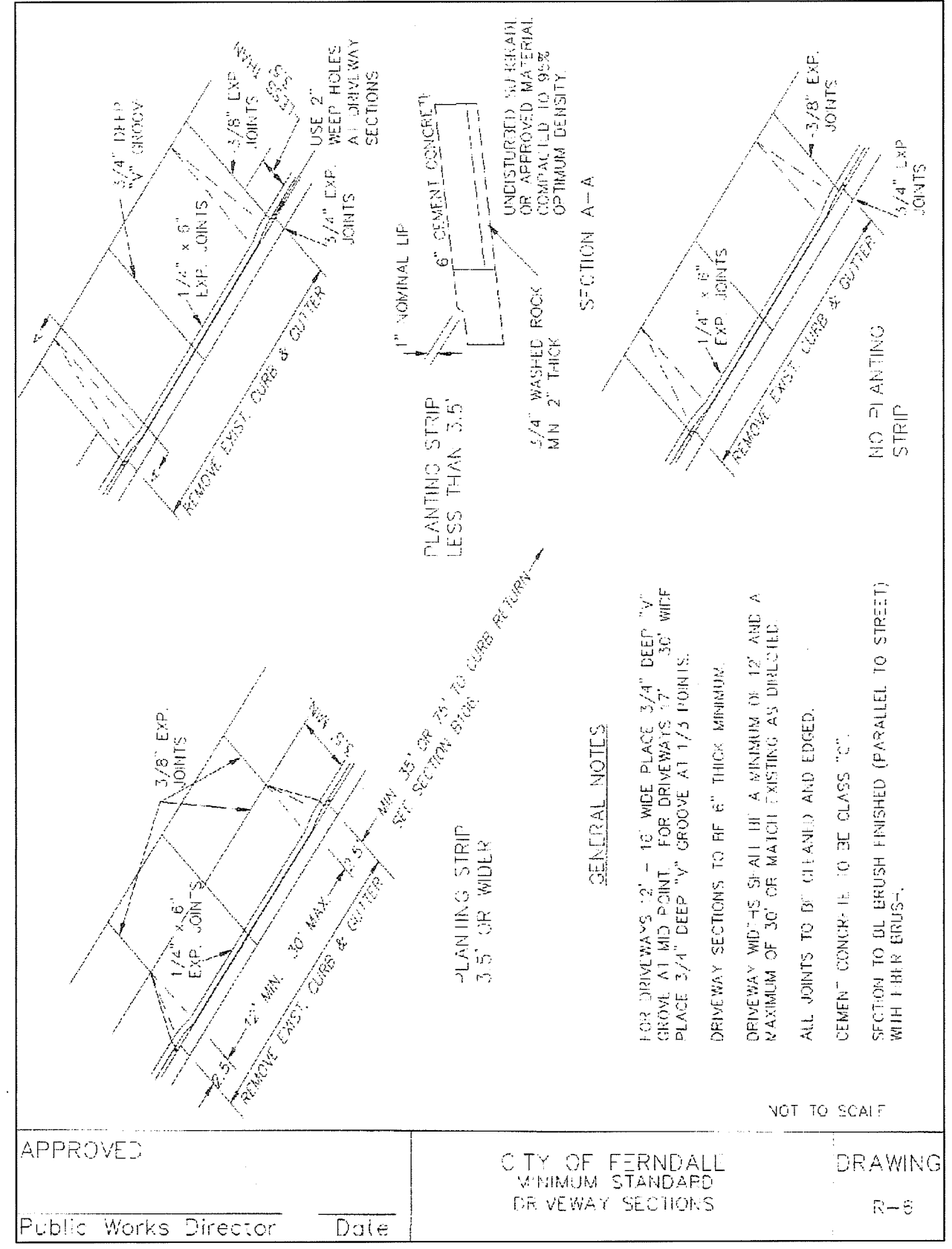
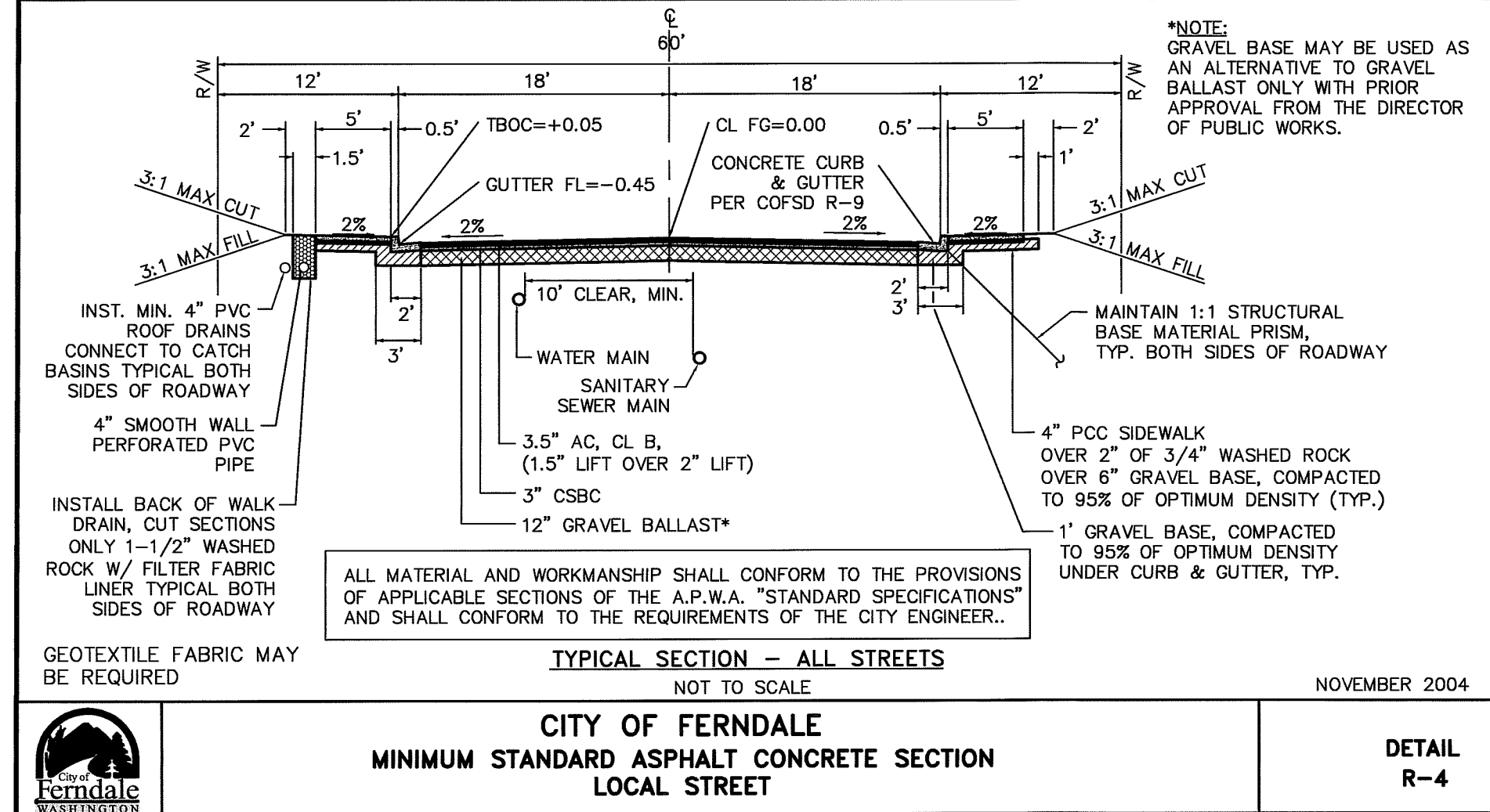
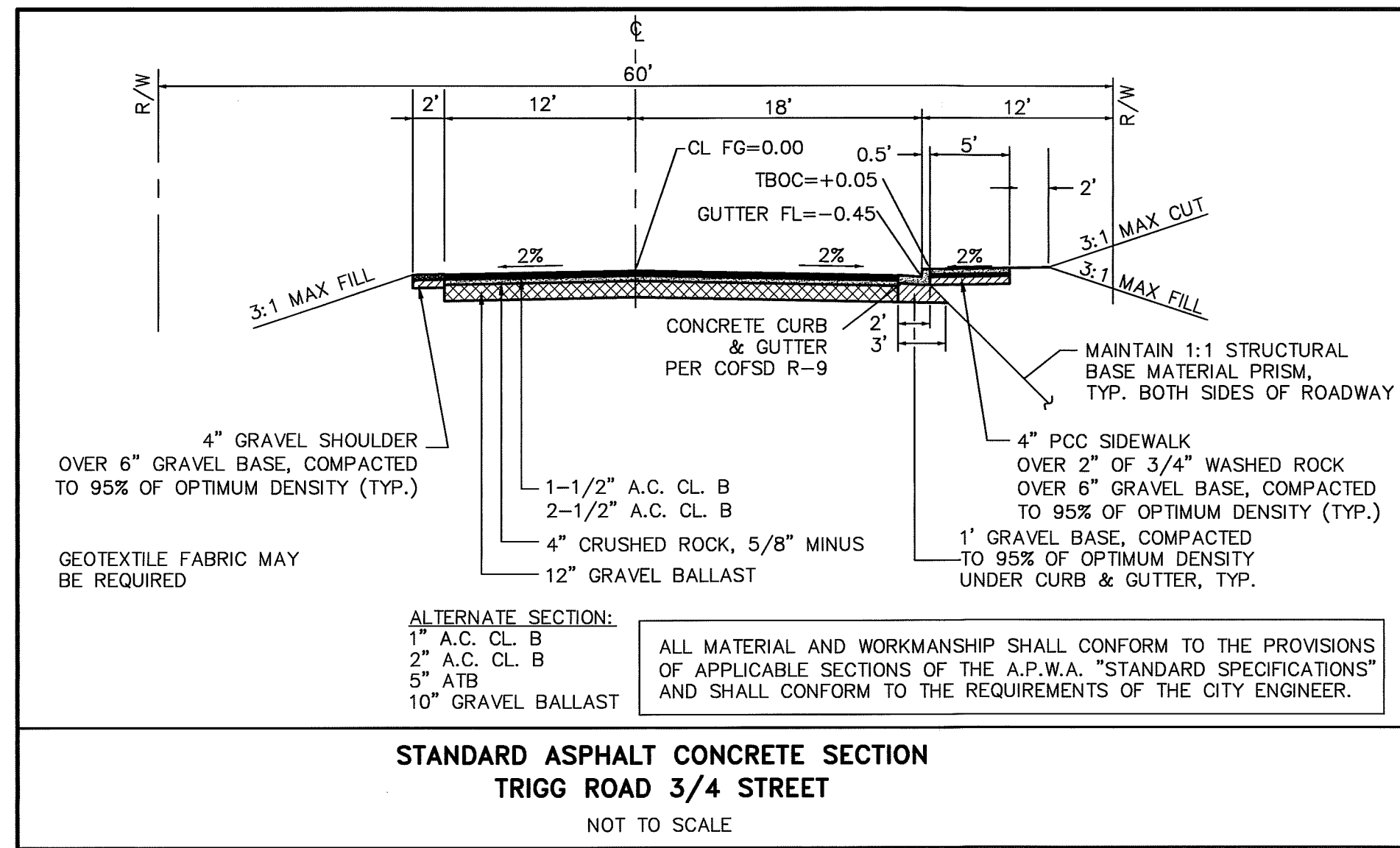
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SURVEYOR NAME & LICENSE NUMBER 32450 DATE 7/31/08



APPROVED
FEB 11 2009
CITY OF FERNDALE

00398500 210108100



RADIUS (AT CURB FACE)	A	B	C
20 FEET	4' - 5 1/4"	8' - 10 1/2"	3' - 8 1/2"
30 FEET	3' - 10"	7' - 8"	3' - 2 1/4"
40 FEET	3' - 7"	7' - 2"	3' - 0"
50 FEET	3' - 6 1/2"	6' - 10 3/4"	2' - 10 1/2"
60 FEET	3' - 4 1/2"	6' - 8 3/4"	2' - 9 1/2"
70 FEET	3' - 3 3/4"	6' - 7 1/2"	2' - 9"
80 FEET	3' - 3 1/4"	6' - 6 1/2"	2' - 8 1/2"
90 FEET	3' - 2 3/4"	6' - 5 1/2"	2' - 8 1/4"
100 FEET	3' - 2 1/2"	6' - 5"	2' - 8"

INTERMEDIATE RADII CAN BE INTERPOLATED

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC OUTLINE OF THE SPECIAL, ORDERED BY THE ENGINEER AND APPROVED FOR PUBLICATION. IT IS THE RESPONSIBILITY OF THE ENGINEER TO OBTAIN THE NECESSARY PERMITS AND APPROVALS AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

NOTES

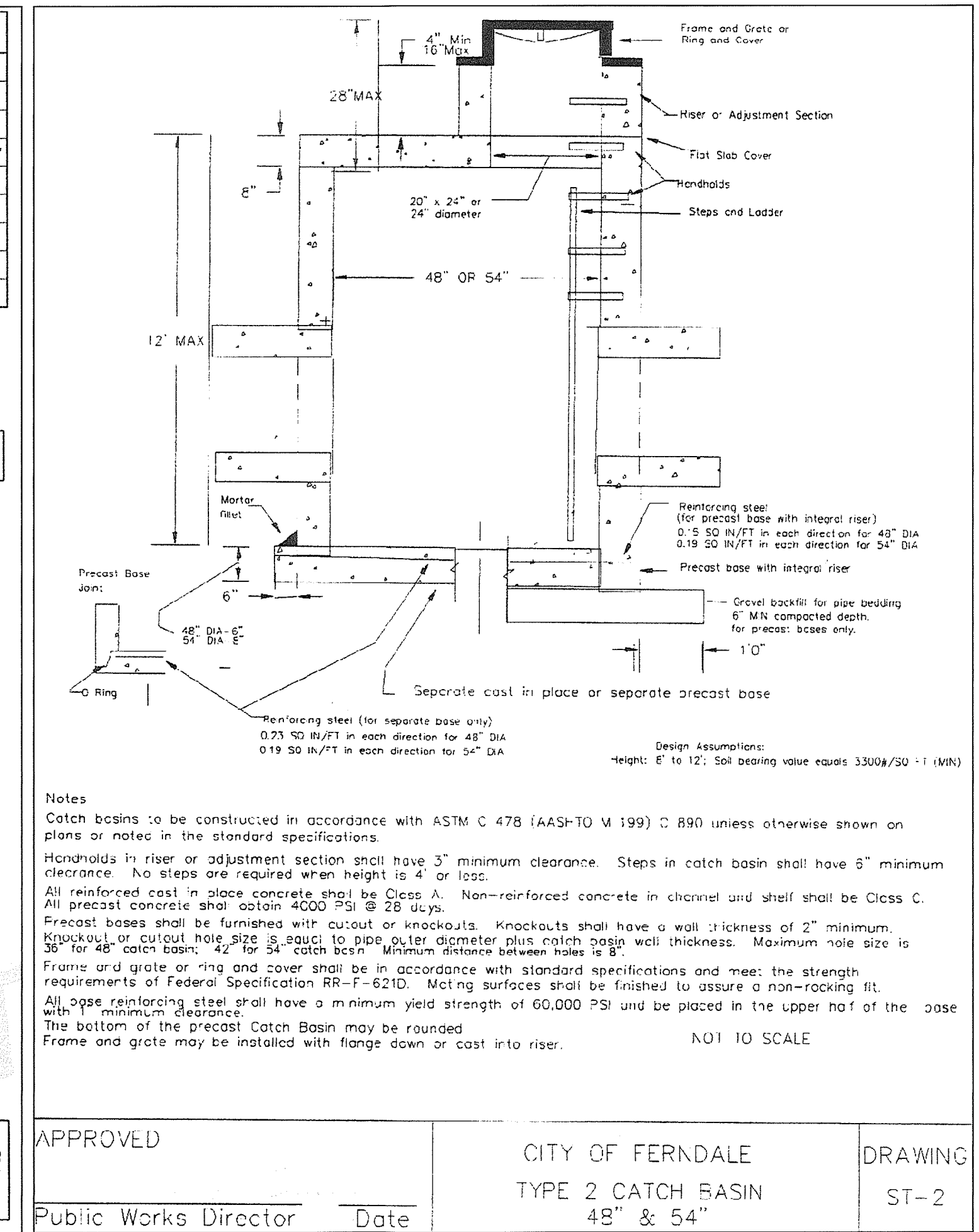
1. Avoid placing drainage structures, junction boxes or other obstructions in front of ramp access areas.

2. Detectable warning patterns may be created by any method that will achieve the truncated dome dimensions and spacing shown. The detectable warning pattern area shall be yellow, in compliance with Std. Spec. 8-14.3(3).

3. Curb and gutter shown, see the Contract Plans for the curb design specified. See Std. Plan F-1 for curb details.

4. See Std. Plan F-3 for sidewalk joint placement and details.

5. Ramp slopes shall not be steeper than 12H:1V.



CALL BEFORE YOU DIG
1-800-424-5555

NOTES

1. EXISTING FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FERDALE STANDARDS AND CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

3. AS-BUILT FIELD DATA PER COMPASS POINT SURVEY GROUP, INC.

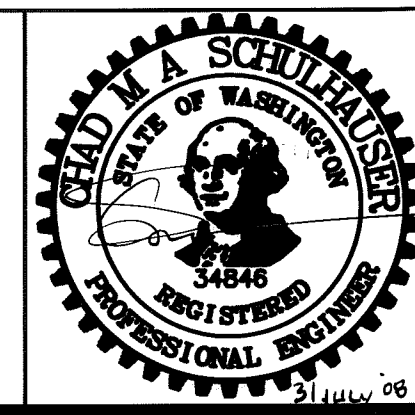
ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN TRIGG WOODS HAVE BEEN INSPECTED BY MILLENNIUM ENGINEERING GROUP, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE. SURVEY DATA SUPPLIED BY COMPASS POINT SURVEY GROUP, INC. RECEIVED BY THIS OFFICE ON 05/07/08 WAS USED TO PREPARE THESE AS-BUILT PLANS.

DATE: 31 July 08
ENGINEER NAME & LICENSE NUMBER: 34846

DATUM
VERTICAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
MON. NO. 3 - EL=70.19
NOVD-29
HORIZONTAL
CITY OF FERDALE SURVEY MONUMENT NETWORK
NAVD-83/91

BASIS OF BEARINGS
CITY OF FERDALE SURVEY MONUMENT NETWORK



MILLENNIUM Engineering Group, Inc.

109-6th ST., PO BOX 137, LYNDEN, WA 98264
PH: (360) 354-8141 FAX: (360) 354-3744
mail@2001egi.com www.2001egi.com

FLAT OF TRIGG WOODS

DETAILS

CITY OF FERDALE PROJECT NUMBER LP-2006-08

FOR TRIGG ROAD LLC

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERDALE, WHATCOM COUNTY, WASHINGTON

SCALE:
DATE: 05/09/08
DRAWN BY: LLC
REVIEWED: 07/31/08
SUBJECT: 13 OF 15
JOB NUMBER: 05020

SURVEYOR'S CERTIFICATION

I CERTIFY THAT ON 11/21/07 A FIELD AS-BUILT SURVEY WAS PERFORMED AT TRIGG WOODS BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY, INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD BOOK NOTES WERE SUBMITTED TO MILLENNIUM ENGINEERING GROUP, INC. ON 05/07/08 FOR USE IN PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.005.

SURVEYOR NAME & LICENSE NUMBER: 32183
DATE: 7/31/08



APPROVED
FEB 11 2009
Toby Gude
CITY OF FERDALE

AS-BUILT

00318.013 7-8-07 DD

00398.01 7.8.09 DD

OUTSIDE DROP STRUCTURE
NOT TO SCALE

NOTE:
INSIDE DROP STRUCTURE PERMITTED ONLY BY SPECIAL APPROVAL BY PUBLIC WORKS DIRECTOR. INSIDE DROP STRUCTURE LIMITED TO 54" DIA MANHOLE AND SHALL BE BOUND IN PLACE BY STAINLESS STEEL BANDS 2" O/C

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	OUTSIDE DROP STRUCTURE	SS-11

PIPE BEDDING FOR RIGID PIPE
BEDDING FOR FLEXIBLE PIPE

DIMENSION	CLASS A	CLASS B	CLASS C	CLASS D	CLASS E	CLASS F
A	4" MIN	4" MIN	4" MIN	4" MIN	4" MIN	4" MIN
B	1/4" O.D.	1/2" O.D.	1/2" O.D.	1/2" O.D.	1/2" O.D.	1/2" O.D.
C	3/4" O.D.	1/2" O.D.	1/2" O.D.	1/2" O.D.	1/2" O.D.	1/2" O.D.

NOTE: *A = 6" MIN, 27" and under; 6" MIN, over 27" ID.

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	PIPE BEDDING FOR SANITARY SEWERS	SS-1

TYPE I - 48" MANHOLE
NTS

NOT TO SCALE

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	TYPE I - 48" MANHOLE	SS-2

SECTION A - A
SECTION B - B

NOT TO SCALE

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	MANHOLE RING & COVER	SS-9

NORMAL INSTALLATION SIDE SEWER
15" AND SMALLER

NOT TO SCALE

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	NORMAL INSTALLATION SIDE SEWERS	SS-6

SEWER SERVICE DETAIL
NOT TO SCALE

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	DOUBLE SANITARY SEWER SERVICE	SS-13

6" CLEAN OUT
NOT TO SCALE

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	6" CLEAN OUT	SS-5

THRUST BLOCKING ELBOWS
NOT TO SCALE

SIZE	1" x 1/4"	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1 1/4" x 1 1/4"	1 1/2" x 1 1/2"	2" x 2"	3" x 3"	4" x 4"	6" x 6"	8" x 8"	10" x 10"	12" x 12"	14" x 14"	16" x 16"	18" x 18"	20" x 20"	24" x 24"	30" x 30"	36" x 36"	42" x 42"	48" x 48"	54" x 54"	60" x 60"	72" x 72"	84" x 84"	96" x 96"	108" x 108"	120" x 120"	144" x 144"	168" x 168"	192" x 192"	216" x 216"	240" x 240"	264" x 264"	288" x 288"	312" x 312"	336" x 336"	360" x 360"	384" x 384"	408" x 408"	432" x 432"	456" x 456"	480" x 480"	504" x 504"	528" x 528"	552" x 552"	576" x 576"	600" x 600"	624" x 624"	648" x 648"	672" x 672"	696" x 696"	720" x 720"	744" x 744"	768" x 768"	792" x 792"	816" x 816"	840" x 840"	864" x 864"	888" x 888"	912" x 912"	936" x 936"	960" x 960"	984" x 984"	1008" x 1008"	1032" x 1032"	1056" x 1056"	1080" x 1080"	1104" x 1104"	1128" x 1128"	1152" x 1152"	1176" x 1176"	1200" x 1200"	1224" x 1224"	1248" x 1248"	1272" x 1272"	1296" x 1296"	1320" x 1320"	1344" x 1344"	1368" x 1368"	1392" x 1392"	1416" x 1416"	1440" x 1440"	1464" x 1464"	1488" x 1488"	1512" x 1512"	1536" x 1536"	1560" x 1560"	1584" x 1584"	1608" x 1608"	1632" x 1632"	1656" x 1656"	1680" x 1680"	1704" x 1704"	1728" x 1728"	1752" x 1752"	1776" x 1776"	1800" x 1800"	1824" x 1824"	1848" x 1848"	1872" x 1872"	1896" x 1896"	1920" x 1920"	1944" x 1944"	1968" x 1968"	1992" x 1992"	2016" x 2016"	2040" x 2040"	2064" x 2064"	2088" x 2088"	2112" x 2112"	2136" x 2136"	2160" x 2160"	2184" x 2184"	2208" x 2208"	2232" x 2232"	2256" x 2256"	2280" x 2280"	2304" x 2304"	2328" x 2328"	2352" x 2352"	2376" x 2376"	2400" x 2400"	2424" x 2424"	2448" x 2448"	2472" x 2472"	2496" x 2496"	2520" x 2520"	2544" x 2544"	2568" x 2568"	2592" x 2592"	2616" x 2616"	2640" x 2640"	2664" x 2664"	2688" x 2688"	2712" x 2712"	2736" x 2736"	2760" x 2760"	2784" x 2784"	2808" x 2808"	2832" x 2832"	2856" x 2856"	2880" x 2880"	2904" x 2904"	2928" x 2928"	2952" x 2952"	2976" x 2976"	3000" x 3000"	3024" x 3024"	3048" x 3048"	3072" x 3072"	3096" x 3096"	3120" x 3120"	3144" x 3144"	3168" x 3168"	3192" x 3192"	3216" x 3216"	3240" x 3240"	3264" x 3264"	3288" x 3288"	3312" x 3312"	3336" x 3336"	3360" x 3360"	3384" x 3384"	3408" x 3408"	3432" x 3432"	3456" x 3456"	3480" x 3480"	3504" x 3504"	3528" x 3528"	3552" x 3552"	3576" x 3576"	3600" x 3600"	3624" x 3624"	3648" x 3648"	3672" x 3672"	3696" x 3696"	3720" x 3720"	3744" x 3744"	3768" x 3768"	3792" x 3792"	3816" x 3816"	3840" x 3840"	3864" x 3864"	3888" x 3888"	3912" x 3912"	3936" x 3936"	3960" x 3960"	3984" x 3984"	4008" x 4008"	4032" x 4032"	4056" x 4056"	4080" x 4080"	4104" x 4104"	4128" x 4128"	4152" x 4152"	4176" x 4176"	4200" x 4200"	4224" x 4224"	4248" x 4248"	4272" x 4272"	4296" x 4296"	4320" x 4320"	4344" x 4344"	4368" x 4368"	4392" x 4392"	4416" x 4416"	4440" x 4440"	4464" x 4464"	4488" x 4488"	4512" x 4512"	4536" x 4536"	4560" x 4560"	4584" x 4584"	4608" x 4608"	4632" x 4632"	4656" x 4656"	4680" x 4680"	4704" x 4704"	4728" x 4728"	4752" x 4752"	4776" x 4776"	4800" x 4800"	4824" x 4824"	4848" x 4848"	4872" x 4872"	4896" x 4896"	4920" x 4920"	4944" x 4944"	4968" x 4968"	4992" x 4992"	5016" x 5016"	5040" x 5040"	5064" x 5064"	5088" x 5088"	5112" x 5112"	5136" x 5136"	5160" x 5160"	5184" x 5184"	5208" x 5208"	5232" x 5232"	5256" x 5256"	5280" x 5280"	5304" x 5304"	5328" x 5328"	5352" x 5352"	5376" x 5376"	5400" x 5400"	5424" x 5424"	5448" x 5448"	5472" x 5472"	5496" x 5496"	5520" x 5520"	5544" x 5544"	5568" x 5568"	5592" x 5592"	5616" x 5616"	5640" x 5640"	5664" x 5664"	5688" x 5688"	5712" x 5712"	5736" x 5736"	5760" x 5760"	5784" x 5784"	5808" x 5808"	5832" x 5832"	5856" x 5856"	5880" x 5880"	5904" x 5904"	5928" x 5928"	5952" x 5952"	5976" x 5976"	6000" x 6000"	6024" x 6024"	6048" x 6048"	6072" x 6072"	6096" x 6096"	6120" x 6120"	6144" x 6144"	6168" x 6168"	6192" x 6192"	6216" x 6216"	6240" x 6240"	6264" x 6264"	6288" x 6288"	6312" x 6312"	6336" x 6336"	6360" x 6360"	6384" x 6384"	6408" x 6408"	6432" x 6432"	6456" x 6456"	6480" x 6480"	6504" x 6504"	6528" x 6528"	6552" x 6552"	6576" x 6576"	6600" x 6600"	6624" x 6624"	6648" x 6648"	6672" x 6672"	6696" x 6696"	6720" x 6720"	6744" x 6744"	6768" x 6768"	6792" x 6792"	6816" x 6816"	6840" x 6840"	6864" x 6864"	6888" x 6888"	6912" x 6912"	6936" x 6936"	6960" x 6960"	6984" x 6984"	7008" x 7008"	7032" x 7032"	7056" x 7056"	7080" x 7080"	7104" x 7104"	7128" x 7128"	7152" x 7152"	7176" x 7176"	7200" x 7200"	7224" x 7224"	7248" x 7248"	7272" x 7272"	7296" x 7296"	7320" x 7320"	7344" x 7344"	7368" x 7368"	7392" x 7392"	7416" x 7416"	7440" x 7440"	7464" x 7464"	7488" x 7488"	7512" x 7512"	7536" x 7536"	7560" x 7560"	7584" x 7584"	7608" x 7608"	7632" x 7632"	7656" x 7656"	7680" x 7680"	7704" x 7704"	7728" x 7728"	7752" x 7752"	7776" x 7776"	7800" x 7800"	7824" x 7824"	7848" x 7848"	7872" x 7872"	7896" x 7896"	7920" x 7920"	7944" x 7944"	7968" x 7968"	7992" x 7992"	8016" x 8016"	8040" x 8040"	8064" x 8064"	8088" x 8088"	8112" x 8112"	8136" x 8136"	8160" x 8160"	8184" x 8184"	8208" x 8208"	8232" x 8232"	8256" x 8256"	8280" x 8280"	8304" x 8304"	8328" x 8328"	8352" x 8352"	8376" x 8376"	8400" x 8400"	8424" x 8424"	8448" x 8448"	8472" x 8472"	8496" x 8496"	8520" x 8520"	8544" x 8544"	8568" x 8568"	8592" x 8592"	8616" x 8616"	8640" x 8640"	8664" x 8664"	8688" x 8688"	8712" x 8712"	8736" x 8736"	8760" x 8760"	8784" x 8784"	8808" x 8808"	8832" x 8832"	8856" x 8856"	8880" x 8880"	8904" x 8904"	8928" x 8928"	8952" x 8952"	8976" x 8976"	9000" x 9000"	9024" x 9024"	9048" x 9048"	9072" x 9072"	9096" x 9096"	9120" x 9120"	9144" x 9144"	9168" x 9168"	9192" x 9192"	9216" x 9216"	9240" x 9240"	9264" x 9264"	9288" x 9288"	9312" x 9312"	9336" x 9336"	9360" x 9360"	9384" x 9384"	9408" x 9408"	9432" x 9432"	9456" x 9456"	9480" x 9480"	9504" x 9504"	9528" x 9528"	9552" x 9552"	9576" x 9576"	9600" x 9600"	9624" x 9624"	9648" x 9648"	9672" x 9672"	9696" x 9696"	9720" x 9720"	9744" x 9744"	9768" x 9768"	9792" x 9792"	9816" x 9816"	9840" x 9840"	9864" x 9864"	9888" x 9888"	9912" x 9912"	9936" x 9936"	9960" x 9960"	9984" x 9984"	10000" x 10000"
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APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	THRUST BLOCKING ELBOWS	W-2

THRUST BLOCKING TEE
NOT TO SCALE

SIZE	1" x 1/4"	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1 1/4" x 1 1/4"	1 1/2" x 1 1/2"	2" x 2"	3" x 3"	4" x 4"	6" x 6"	8" x 8"	10" x 10"	12" x 12"	14" x 14"	16" x 16"	18" x 18"	20" x 20"	24" x 24"	30" x 30"	36" x 36"	42" x 42"	48" x 48"	54" x 54"	60" x 60"	72" x 72"	84" x 84"	96" x 96"	108" x 108"	120" x 120"	144" x 144"	168" x 168"	192" x 192"	216" x 216"	240" x 240"	264" x 264"	288" x 288"	312" x 312"	336" x 336"	360" x 360"	384" x 384"	408" x 408"	432" x 432"	456" x 456"	480" x 480"	504" x 504"	528" x 528"	552" x 552"	576" x 576"	600" x 600"	624" x 624"	648" x 648"	672" x 672"	696" x 696"	720" x 720"	744" x 744"	768" x 768"	792" x 792"	816" x 816"	840" x 840"	864" x 864"	888" x 888"	912" x 912"	936" x 936"	960" x 960"	984" x 984"	1008" x 1008"	1032" x 1032"	1056" x 1056"	1080" x 1080"	1104" x 1104"	1128" x 1128"	1152" x 1152"	1176" x 1176"	1200" x 1200"	1224" x 1224"	1248" x 1248"	1272" x 1272"	1296" x 1296"	1320" x 1320"	1344" x 1344"	1368" x 1368"	1392" x 1392"	1416" x 1416"	1440" x 1440"	1464" x 1464"	1488" x 1488"	1512" x 1512"	1536" x 1536"	1560" x 1560"	1584" x 1584"	1608" x 1608"	1632" x 1632"	1656" x 1656"	1680" x 1680"	1704" x 1704"	1728" x 1728"	1752" x 1752"	1776" x 1776"	1800" x 1800"	1824" x 1824"	1848" x 1848"	1872" x 1872"	1896" x 1896"	1920" x 1920"	1944" x 1944"	1968" x 1968"	1992" x 1992"	2016" x 2016"	2040" x 2040"	2064" x 2064"	2088" x 2088"	2112" x 2112"	2136" x 2136"	2160" x 2160"	2184" x 2184"	2208" x 2208"	2232" x 2232"	2256" x 2256"	2280" x 2280"	2304" x 2304"	2328" x 2328"	2352" x 2352"	2376" x 2376"	2400" x 2400"	2424" x 2424"	2448" x 2448"	2472" x 2472"	2496" x 2496"	2520" x 2520"	2544" x 2544"	2568" x 2568"	2592" x 2592"	2616" x 2616"	2640" x 2640"	2664" x 2664"	2688" x 2688"	2712" x 2712"	2736" x 2736"	2760" x 2760"	2784" x 2784"	2808" x 2808"	2832" x 2832"	2856" x 2856"	2880" x 2880"	2904" x 2904"	2928" x 2928"	2952" x 2952"	2976" x 2976"	3000" x 3000"	3024" x 3024"	3048" x 3048"	3072" x 3072"	3096" x 3096"	3120" x 3120"	3144" x 3144"	3168" x 3168"	3192" x 3192"	3216" x 3216"	3240" x 3240"	3264" x 3264"	3288" x 3288"	3312" x 3312"	3336" x 3336"	3360" x 3360"	3384" x 3384"	3408" x 3408"	3432" x 3432"	3456" x 3456"	3480" x 3480"	3504" x 3504"	3528" x 3528"	3552" x 3552"	3576" x 3576"	3600" x 3600"	3624" x 3624"	3648" x 3648"	3672" x 3672"	3696" x 3696"	3720" x 3720"	3744" x 3744"	3768" x 3768"	3792" x 3792"	3816" x 3816"	3840" x 3840"	3864" x 3864"	3888" x 3888"	3912" x 3912"	3936" x 3936"	3960" x 3960"	3984" x 3984"	4008" x 4008"	4032" x 4032"	4056" x 4056"	4080" x 4080"	4104" x 4104"	4128" x 4128"	4152" x 4152"	4176" x 4176"	4200" x 4200"	4224" x 4224"	4248" x 4248"	4272" x 4272"	4296" x 4296"	4320" x 4320"	4344" x 4344"	4368" x 4368"	4392" x 4392"	4416" x 4416"	4440" x 4440"	4464" x 4464"	4488" x 4488"	4512" x 4512"	4536" x 4536"	4560" x 4560"	4584" x 4584"	4608" x 4608"	4632" x 4632"	4656" x 4656"	4680" x 4680"	4704" x 4704"	4728" x 4728"	4752" x 4752"	4776" x 4776"	4800" x 4800"	4824" x 4824"	4848" x 4848"	4872" x 4872"	4896" x 4896"	4920" x 4920"	4944" x 4944"	4968" x 4968"	4992" x 4992"	5016" x 5016"	5040" x 5040"	5064" x 5064"	5088" x 5088"	5112" x 5112"	5136" x 5136"	5160" x 5160"	5184" x 5184"	5208" x 5208"	5232" x 5232"	5256" x 5256"	5280" x 5280"	5304" x 5304"	5328" x 5328"	5352" x 5352"	5376" x 5376"	5400"
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APPROVED	CITY OF FERRISDALE FIRE HYDRANT ASSEMBLY	DRAWING W-1
Public Works Director	Date	

2" blow-off to be used where the main will extended in the future
For mains with no further extension, refer to 2" blow-off, non-
extendable main.

NOT TO SCALE	
APPROVED <i>John S. Henderson</i> Public Works Director	CITY OF FERDALE 2" BLOW-OFF WATER MAIN EXTENSION DRAWN W-9

CALL BEFORE
YOU DIG
1-800-424-5555

INSTALLED ON TRIGG RD (TYP.)

PTN. NW1/4, SEC.17, T39N, R2E, W.M.
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

05020
