

**SURVEY DESCRIPTION**

THE SURVEY WAS CONDUCTED TO PROVIDE A BEST FIT ALIGNMENT OF THE HELMICK ROAD (9551) RIGHT OF WAY FOR THE PURPOSE OF ESTABLISHING A PERMANENT AND PERPETUAL LOCATION FOR CURRENT AND FUTURE USE. IT WAS CONDUCTED IN CONJUNCTION WITH FUTURE PLANNED WIDENING AND IMPROVEMENTS ON HELMICK ROAD. SAID PROJECT WILL DEVELOP A RIGHT OF WAY PLAN THAT WILL REFERENCE THIS SURVEY.

THE RESULTANT ALIGNMENT PRODUCED FROM THIS SURVEY WAS BASED ON A COMBINATION OF THREE CRITERIA, AS FOLLOWS:

1. THOSE SURVEYOR'S FIELD NOTES, SURVEYOR'S REPORT, AND SURVEYOR'S MAP PRODUCED BY JOHN W. MEEHAN FROM JULY, 1895 RELATIVE TO THE ESTABLISHMENT OF HELMICK ROAD BY THE PETITION OF M. HELMICK.
2. THE ORIGINAL DEEDS, WAIVERS, AND DESCRIPTIONS FROM THE AFFECTED LANDOWNERS BY THE ESTABLISHMENT OF HELMICK ROAD. THE DESCRIPTIONS IN THESE DOCUMENTS REFERENCE SAID SURVEYOR'S FIELD NOTES AND REPORT AS THE DEEDED CENTERLINE OF HELMICK ROAD.
3. THE AS-BUILT LOCATION OF THE HELMICK ROAD AS IT CURRENTLY EXISTS, OCCUPATIONAL INDICATORS, AND KNOWN SURVEYS OF RECORD.

**NOTES**

1. BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (4601) NAD 83 (CORS 96) EPOCH 2002.0000 DERIVED FROM GPS OBSERVATIONS AND POST-PROCESSED USING THE ONLINE POSITIONING USER SERVICE (OPUS) OF THE NATIONAL GEODETIC SURVEY.
2. ADDITIONAL OBSERVATIONS WERE CONDUCTED BY CONVENTIONAL FIELD TRAVERSES USING A SOKKIA SET 28 ELECTRONIC TOTAL STATION AND EXCEED THE REQUIREMENTS AS SET FORTH IN WAC 332-130-090.
3. ALL DISTANCES SHOWN ARE GROUND DISTANCES. TO REDUCE DISTANCES SHOWN TO GRID DISTANCES, MULTIPLY BY A COMBINED SCALE FACTOR OF 0.99996347 FT.
4. THE PROPERTIES SHOWN ARE APPROXIMATE LOCATIONS RELATIVE TO MONUMENTS SEARCHED FOR AND LOCATED. THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF CURRENT TITLE REPORTS FOR THESE PROPERTIES AND DOES NOT PURPORT TO SHOW ALL EASEMENTS, RESTRICTIONS, RESERVATIONS, PROVISIONS, COVENANTS, AND CONDITIONS THAT MAY AFFECT THEM.

**REFERENCES**

1. RECORD OF SURVEY - WSDOT - A.F. #200407290045
2. RECORD OF SURVEY - SKAGIT SURVEYORS - A.F. #9011130061 - VOLUME 10, PAGE 148 OF SURVEYS
3. SHORT PLAT #26-81 - DON SEMBAU AND ASSOCIATES - A.F. #81042000037 - VOLUME 5, PAGE 58 OF SHORT PLATS
4. PLAT OF ELK HAVEN ESTATES - SKAGIT SURVEYORS - A.F. #200208060083
5. SHORT PLAT #48-78 - JOHN LEONARD - A.F. #883888 - VOLUME 2, PAGE 237 OF SHORT PLATS

**SURVEYOR'S CERTIFICATE**

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE SURVEY RECORDING ACT AT THE REQUEST OF THE SKAGIT COUNTY PUBLIC WORKS DEPARTMENT  
 BURTON R. BEANER, P.E., A.S.  
 CERTIFICATE # 10424 DATE 5-18-06

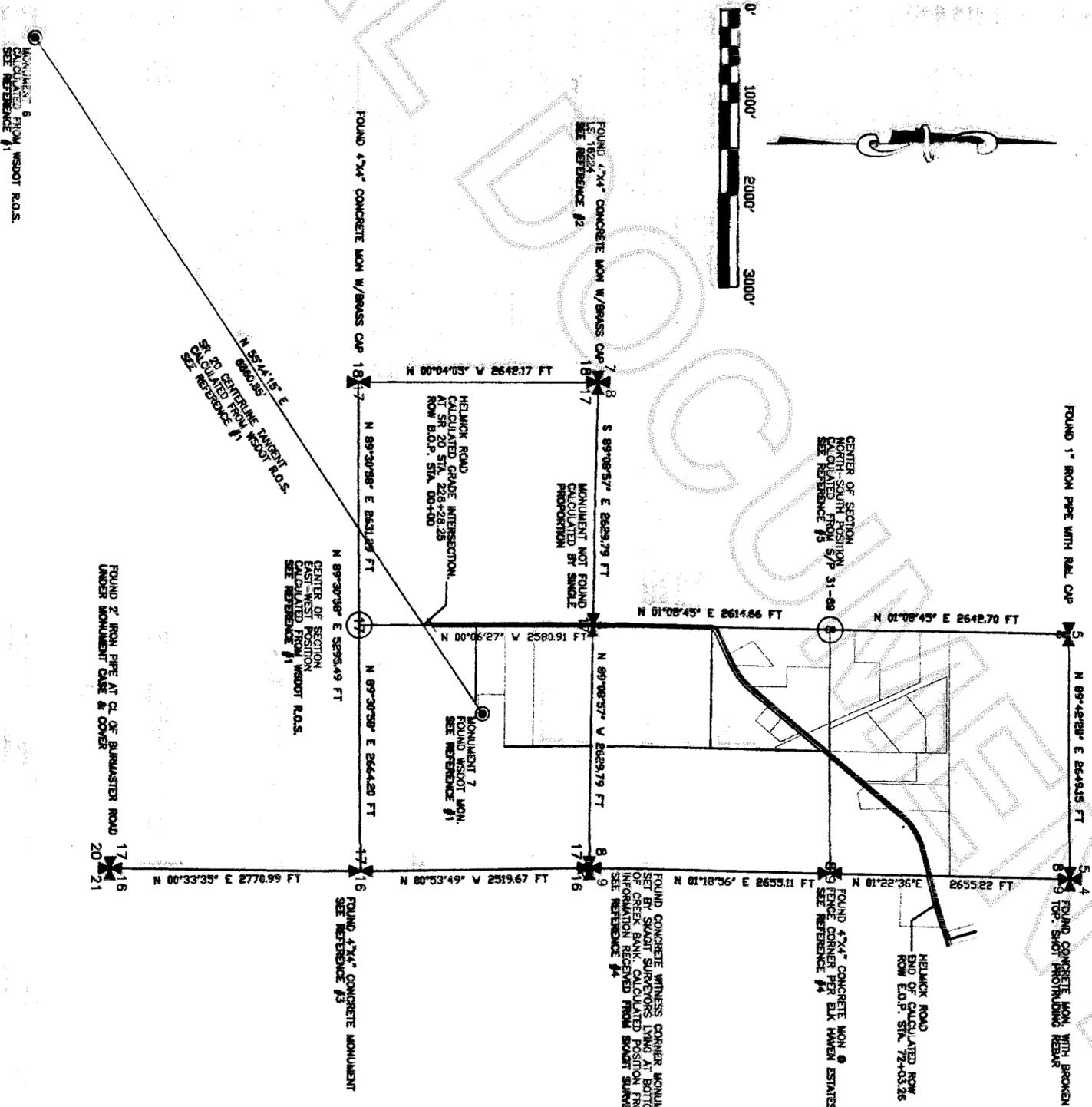


**AUDITOR'S CERTIFICATE**

FILED FOR RECORD THIS 19 DAY OF MAY 2006 AT 3:06 PM IN BOOK 20060519122 OF SURVEYS AT PAGE 1 UNDER AUDITOR'S FILE NUMBER 20060519122 AT THE REQUEST OF THE SKAGIT COUNTY PUBLIC WORKS DEPARTMENT  
 N. Edmundt  
 SKAGIT COUNTY AUDITOR

**HELMICK ROAD (#95510) RIGHT OF WAY C/L**

SURVEY IN PORTIONS OF SECTIONS 8, 9, & 17 TOWNSHIP 35 N., R 5 E., W.M.  
 FOR  
 SKAGIT COUNTY PUBLIC WORKS  
 DRAWN BY: JD 12/19/05  
 CHECKED BY: MOUNT VERNON, WA 98273



**SECTION SUBDIVISION**

20060519122  
 Skagit County Auditor  
 6/19/2006 Page 1 of 4 3:08PM



ORIGINAL MEEHAN ALIGNMENT  
SEE NOTES ON SHEET 4 of 4

N 01° 08' 45" E  
1282.92

FOUND 4"x4" CONCRETE MON.  
LS 16224  
SEE REFERENCE #2

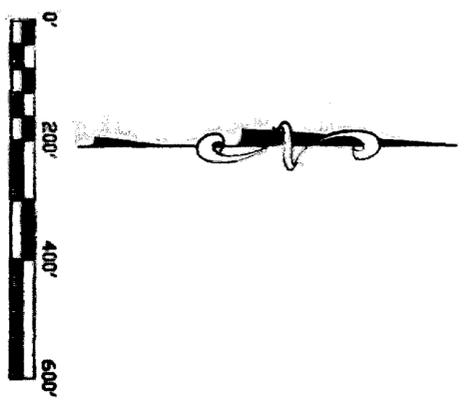
MONUMENT NOT FOUND  
CALCULATED BY  
SINGLE PORPORTION

N 89° 08' 57" W  
2629.79

N 89° 08' 57" W  
2629.79

HELMICK ROAD  
CALCULATED ANGLE POINT  
STA. 18+75.10

FOUND CONCRETE WITNESS CORNER MONUMENT  
SET BY SKAGIT SURVEYORS LYING AT BOTTOM  
OF CREEK BANK CALCULATED POSITION FROM  
INFORMATION RECEIVED FROM SKAGIT SURVEYORS.  
SEE REFERENCE #4



**FOUND MONUMENTATION**

MON.	STATION	BEARING	DISTANCE	CURVE DATA
MON. 1	35+36.86	20.07 LT.		FND. SSI CONCRETE MONUMENT
MON. 2	36+77.95	18.06 LT.		FND. SSI CONCRETE MONUMENT
MON. 3	39+82.05	29.04 RT.		FND. SAM (8077) REBAR/CAP
MON. 4	44+52.21	26.21 RT.		FND. R&L REBAR/CAP
MON. 5	47+76.31	31.66 RT.		FND. 1.5" IRON PIPE
MON. 6	50+07.83	37.29 RT.		FND. LEONARD REBAR/CAP
MON. 7	50+94.70	30.77 LT.		FND. SSI REBAR/CAP
MON. 8	51+12.55	10.22 LT.		FND. SSI REBAR/CAP
MON. 9	52+34.81	17.69 RT.		FND. PSE ALUM. CAP
MON. 10	55+80.26	16.10 RT.		FND. R&L REBAR/CAP
MON. 11	56+38.52	23.34 RT.		FND. R&L REBAR/CAP
MON. 12	68+73.96	41.15 RT.		FND. SSI REBAR/CAP

**ALIGNMENT TABLE**

STATION	BEARING	DISTANCE	CURVE DATA
B.O.P. 0+00	N 00° 06' 27" W	1875.10	
A.P. 18+75.10	N 01° 08' 45" E	1282.92	
P.C. 31+58.02			DELTA = 63°35'00" RADIUS = 100.00 LENGTH = 110.97
P.T. 32+68.99	N 64°43'45" E	359.03	
P.C. 36+28.02			DELTA = 25°24'00" RADIUS = 887.47 LENGTH = 393.43
P.T. 40+21.45	N 39°19'45" E	2134.82	
P.C. 61+56.27			DELTA = 36°09'00" RADIUS = 658.77 LENGTH = 415.64
P.T. 65+71.91	N 75°28'45" E	631.35	
E.O.P. 72+03.26			

**LEGEND**

- MONUMENT FOUND
- MONUMENT SEARCHED FOR & NOT FOUND

HELMICK ROAD  
CALCULATED GRADE INTERSECTION  
AT SR 20 STA. 228+28.25  
HELMICK ROAD B.O.P. STA. 0+00  
SEE REFERENCE #1

MONUMENT 6  
CALCULATED FROM WSDOT R.O.S.  
SEE REFERENCE #1

5 55+44.15' W  
SR 20 CENTERLINE TANGENT  
B66.85  
CALCULATED FROM WSDOT R.O.S.  
SINGLE PORPORTION

MONUMENT 7  
CALCULATED FROM WSDOT R.O.S.  
SEE REFERENCE #1

N 00° 06' 27" W  
1875.10

**SURVEYOR'S CERTIFICATE**

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OR UNDER MY DIRECTION IN CONFORMANCE WITH THE  
SURVEY RECORDING ACT AT THE REQUEST OF THE  
SKAGIT COUNTY PUBLIC WORKS DEPARTMENT  
BURTON R. BEANER, P.E. PLS  
CERTIFICATE # 10424 DATE 5-18-06



**AUDITOR'S CERTIFICATE**

FILED FOR RECORD THIS DAY OF  
2006 AT M. IN BOOK OF SURVEYS AT PAGE  
UNDER AUDITOR'S FILE NUMBER AT THE  
REQUEST OF THE SKAGIT COUNTY PUBLIC WORKS DEPARTMENT  
SKAGIT COUNTY AUDITOR DEPUTY

**HELMICK ROAD (#95510) RIGHT OF WAY C/L**

SURVEY IN PORTIONS OF SECTIONS 8, 9, & 17  
TOWNSHIP 35 N., R 5 E., W.M.  
FOR  
SKAGIT COUNTY PUBLIC WORKS  
SKAGIT COUNTY PUBLIC WORKS DEPARTMENT  
1800 CONTINENTAL PLACE  
MOUNT VERNON, WA 98273  
DRAWN BY: JDF 12/19/05  
CHECKED BY:



FOUND 1" IRON PIPE WITH RAIL CAP

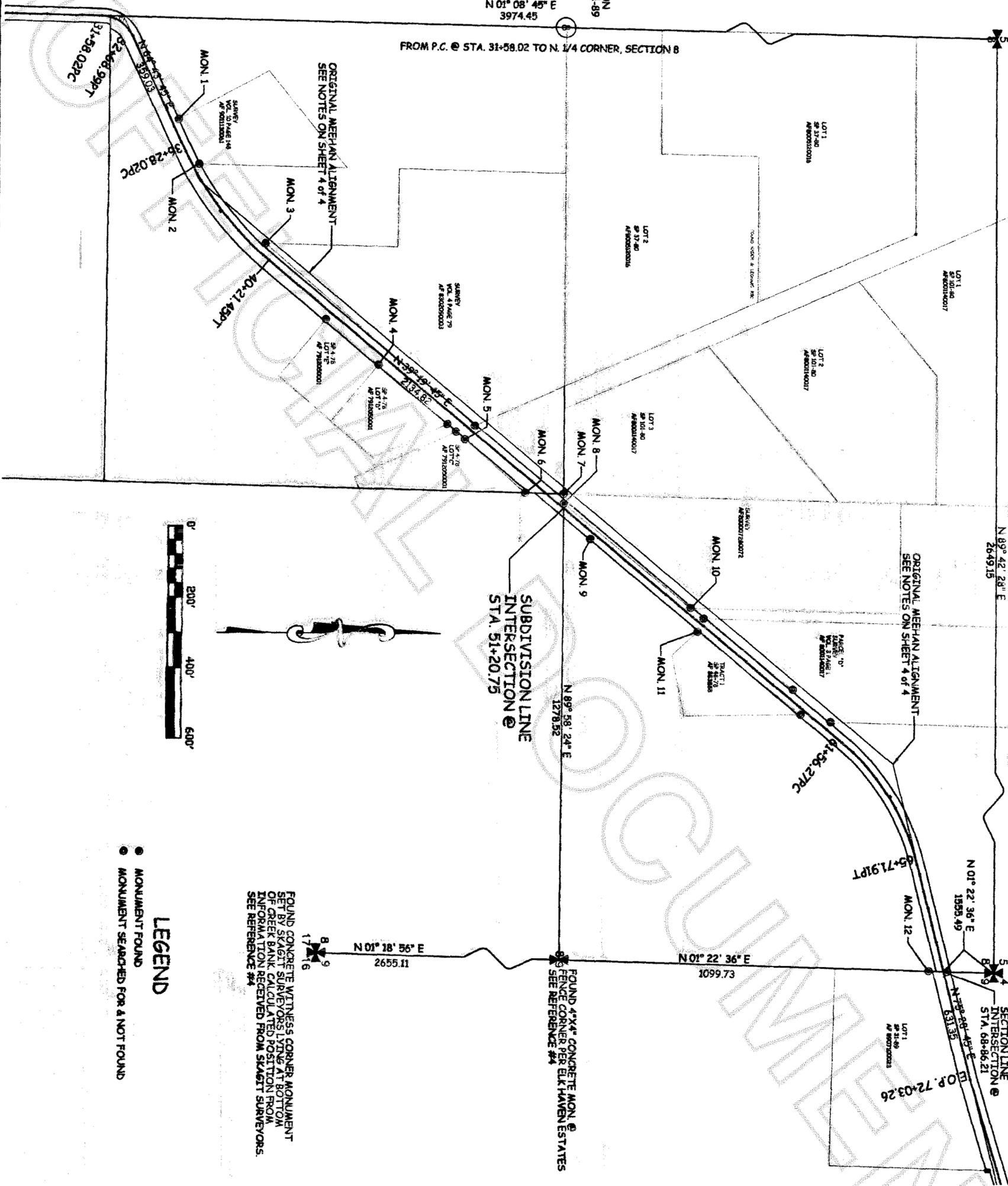
FOUND 4"x4" CONCRETE MON. WITH BROKEN TOP, SHOT PROTRUDING REBAR

SECTION LINE INTERSECTION @ STA. 68+86.21

FOUND 4"x4" CONCRETE MON. @ FENCE CORNER PER ELK HAVEN ESTATES SEE REFERENCE #4

CENTER OF SECTION NORTH-SOUTH POSITION CALCULATED FROM SP 31-89 SEE REFERENCE #5

N 01° 08' 45" E 3974.45  
FROM P.C. @ STA. 31+58.02 TO N. 1/4 CORNER, SECTION 8



**LEGEND**

- MONUMENT FOUND
- MONUMENT SEARCHED FOR & NOT FOUND

FOUND CONCRETE WITNESS CORNER MONUMENT SET BY SKAGIT SURVEYORS LYING AT BOTTOM OF CREEK BANK CALCULATED POSITION FROM INFORMATION RECEIVED FROM SKAGIT SURVEYORS. SEE REFERENCE #4

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 BURTON R. BEANER, PE, PLS  
 CERTIFICATE # 10424 DATE 5-18-06



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 SKAGIT COUNTY AUDITOR DEPUTY

**HELMICK ROAD (#95510) RIGHT OF WAY C/L**

SURVEY IN PORTIONS OF SECTIONS 8, 9, & 11 TOWNSHIP 35 N., R 5 E., W.M.  
 FOR SKAGIT COUNTY PUBLIC WORKS  
 SKAGIT COUNTY PUBLIC WORKS DEPARTMENT  
 1800 CONTINENTAL PL. ACE  
 MOUNT VERNON, WA 98273

5/19/2008 Page 3 of 4 3:08PM  
 Skagit County Auditor  
 2006051901122



JOB # 9551-2-05  
 SHEET 3 OF 4

**NOTES RELATIVE TO THE ORIGINAL SURVEY AND DESCRIPTION BY J.W. MEEHAN FOR FOR THE ESTABLISHMENT OF HELMICK ROAD**

- \* THE BEGINNING STATIONING FOR HELMICK ROAD STARTED AT THE INTERSECTION OF THE NORTH LINE OF THE RAILROAD RIGHT OF WAY WITH THE NORTH-SOUTH CENTERLINE OF SECTION 17, TOWNSHIP 35N, RANGE 5 E., W.M., AND RAN NORTH ALONG THE NORTH-SOUTH CENTERLINE OF SECTION 17, TOWNSHIP 35 N., RANGE 5E, W.M. SAID INTERSECTION WAS DIFFICULT TO RE-ESTABLISH DUE TO THE REMOVAL OF THE TRACKS, AND THEREFORE THE SURVEY STATIONING WAS DERIVED FROM THE INTERSECTION OF SAID NORTH-SOUTH LINE AT THE NORTH 1/4 CORNER OF SAID SECTION AS DESCRIBED IN THE ORIGINAL FIELD NOTES AS STATION 20+88.
- \* THE LINE WAS RUN "NORTH" ALONG THE AFOREMENTIONED NORTH-SOUTH LINE TO A POINT AT THE NORTH 1/4 CORNER OF SAID SECTION 17. THE NOTES CALL OUT A DISTANCE OF 2979.5 FROM THE NORTHEAST CORNER OF SAID SECTION ALTHOUGH THE SURVEYOR STATES THAT HE DID NOT HAVE ANY NOTES AND NO CORNER POST WAS FOUND OR SET. THE "CALL" DISTANCE DID NOT MATCH THE SECTION SUBDIVISION OF THIS SURVEY. THE CALCULATED CORNER FROM THE CURRENT SECTION SUBDIVISION WAS HELD TO BE A CENTERLINE ANGLE POINT OF THE RIGHT OF WAY LINE.
- \* THE LINE CONTINUED "NORTH" INTO SECTION 8, TOWNSHIP 35 N., R5 E., W.M. ALONG THE NORTH-SOUTH CENTERLINE OF SAID SECTION FOR A DISTANCE OF 1344.9 FEET TO A POINT OF DEFLECTION OF AN ANGLE OF 63°35' 00" RIGHT. THE DISTANCE AND DEFLECTION ANGLE WERE HELD AND FOUND TO MATCH THE EXISTING ALIGNMENT USING THE ANGLE POINT WAS AS THE POINT OF INTERSECTION FOR THE CURVE AS SHOWN ON THE PLAN.
- \* THE NOTES THEN SHOW THE LINE RUNNING A LENGTH OF 516.10 FEET TO ANOTHER DEFLECTION ANGLE OF 25°24' 00" LEFT. HOLDING THE RECORD TANGENT LENGTH OF 515.90 AND TURNING THE RECORD DEFLECTION ANGLE MISSED THE PRESENT AS-BUILT ALIGNMENT OF HELMICK ROAD BY A CONSIDERABLE DISTANCE (SEE DRAWING). THEREFORE, A TANGENT LENGTH OF 621.01 WAS HELD AND THE RECORD DEFLECTION ANGLE HELD AND FOUND TO BETTER ALIGN THE AS-BUILT ROAD AS WELL AS PROVIDE AS BEST FIT ALIGNMENT WITH SURVEYS TO DATE AND OCCUPATIONAL INDICATORS.
- \* THE NOTES THEN SHOW THE LINE RUNNING A LENGTH OF 2583 FEET TO AN ANGLE POINT SHOWING A DEFLECTION ANGLE OF 36° 09' 00" RIGHT. AGAIN, HOLDING THE RECORD LENGTH OF 2583.00 DID NOT FIT THE AS-BUILT ALIGNMENT OF HELMICK ROAD BY A SIGNIFICANT AMOUNT (SEE DRAWING). A TANGENT LENGTH OF 2549.82 WAS HELD AND THE RECORD DEFLECTION ANGLE HELD TO BETTER ALIGN WITH THE AS-BUILT ROAD AS WELL AS PROVIDE A BEST FIT ALIGNMENT WITH SURVEYS TO DATE AND OCCUPATIONAL INDICATORS.
- \* THE ORIGINAL SURVEY FOR THE ESTABLISHMENT OF HELMICK ROAD CONTINUED ALONG THIS TANGENT FOR A DISTANCE OF 4,792 FEET TO THE NEXT DEFLECTION ANGLE POINT. THIS MAP ONLY REPRESENTS AN ADDITIONAL 846.38 FEET ALONG THIS TANGENT.

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 CERTIFICATE # 10424 DATE 8-18-06



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 SKAGIT COUNTY AUDITOR \_\_\_\_\_ DEPUTY \_\_\_\_\_

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 FOR SKAGIT COUNTY PUBLIC WORKS  
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 MOUNT VERNON, WA 98273  
 DRAWN BY: JDF 12/19/05  
 CHECKED BY: \_\_\_\_\_

