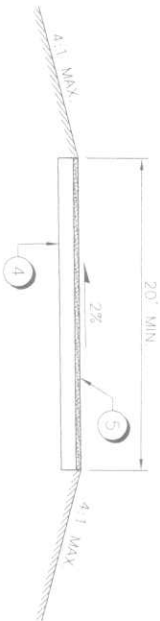
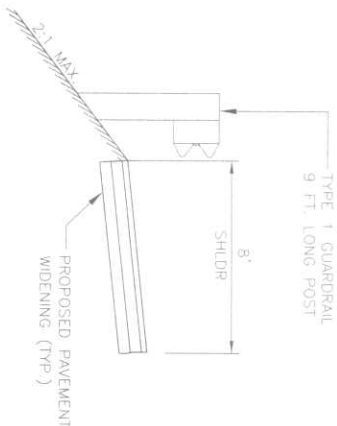


SEC. 17, T. 35 N., R. 5 E., W.M.



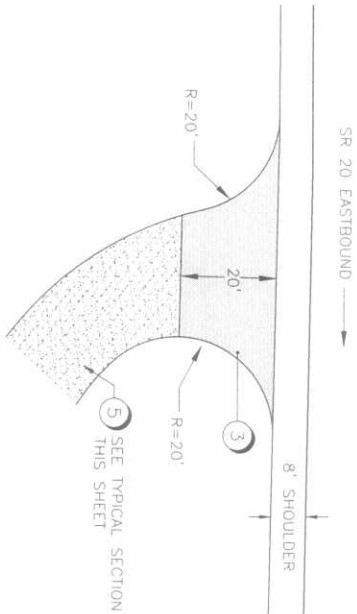
TYPICAL ROADWAY SECTION (ACCESS ROAD)

SCALE: NTS



GUARDRAIL DETAIL

SCALE: NTS SEE GUARDRAIL SCHEDULE ON SHEET I.5

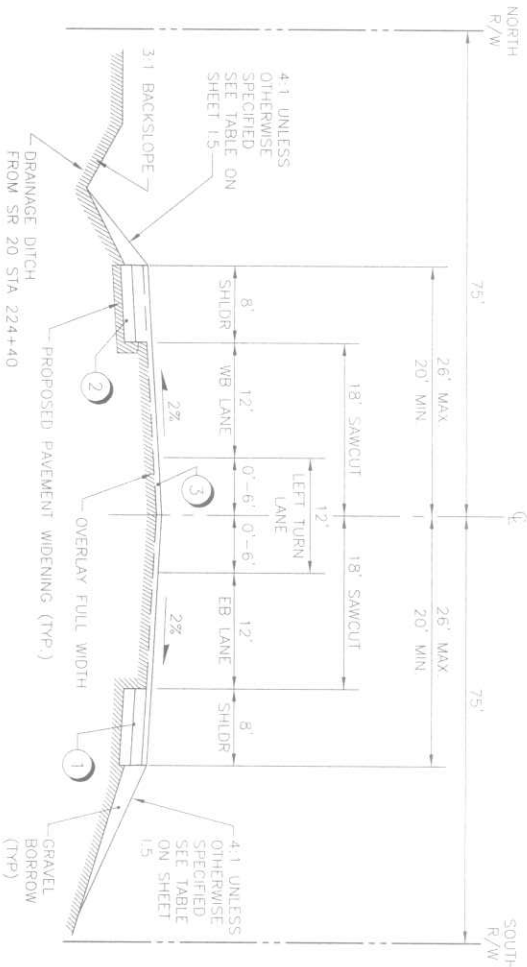


PAVED ACCESS APRON DETAIL

SCALE: NTS

ROADWAY SECTION NOTES:

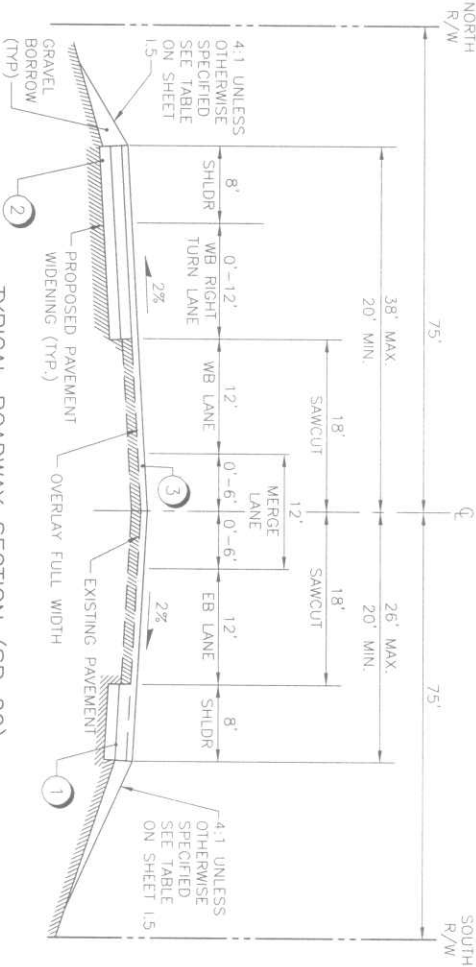
- 1 7.2" ASPHALT CONCRETE PAVEMENT, HMA CLASS 1/2"
- 2 6.0" CRUSHED SURFACING BASE COURSE
- 3 2.0" ASPHALT CONCRETE PAVEMENT, HMA CLASS 1/2"
- 4 6.0" GRAVEL BORROW
- 5 2.0" CRUSHED SURFACING TOP COURSE



TYPICAL ROADWAY SECTION (SR 20)

EXISTING DRAINAGE DITCH FROM SR 20 STA 222+03.50 TO SR 20 STA 224+40

SCALE: NTS



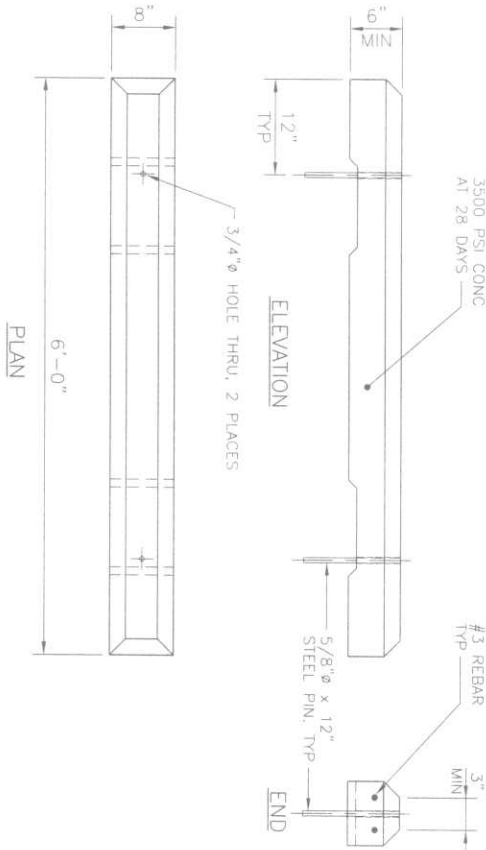
TYPICAL ROADWAY SECTION (SR 20)

SCALE: NTS

SR20 STA 228+64.25 TO SR20 STA 234+40.25

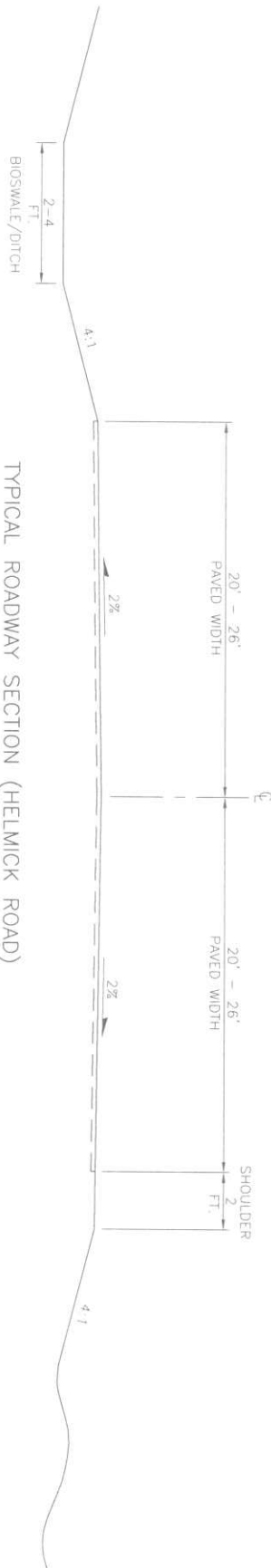
GENERAL NOTES:

1. REFER TO THE CONTRACT MANUAL FOR ADDITIONAL REQUIREMENTS.
2. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE BASED ON RECORD DRAWINGS AND OBSERVATIONS OF SURFACE FEATURES. UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN ON THESE DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. PAVEMENT WIDTHS ARE SHOWN FROM CONSTRUCTION & TO EDGE OF SHOULDER.
4. WHERE EXCAVATIONS ARE IN THE VICINITY OF THE FIBER OPTIC LINE, THE CONTRACTOR SHALL DIRECTLY NOTIFY VERIZON COMMUNICATIONS, 48 HOURS PRIOR TO COMMENCING THIS WORK. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
5. TRAFFIC SIGNS AND MARKINGS SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" FOR STREETS AND HIGHWAYS", LATEST EDITION.
6. LINES AND GRADES AS SHOWN ON PLANS ARE SUBJECT TO ADJUSTMENT BY CONTRACTOR WITH APPROVAL FROM ENGINEER.
7. EXISTING SITE FEATURES AS SHOWN ON PLANS SHALL BE FIELD VERIFIED.
8. EXISTING VEGETATION AND TREES NOT SHOWN ON PLANS.



WHEEL STOP DETAIL

SCALE: NTS



TYPICAL ROADWAY SECTION (HELMICK ROAD)

SCALE: NTS

HELMICK STA 0+00.02 TO HELMICK STA 4+50.00
SEE TYPICAL MATERIALS SECTION ON SHEET C5

SCALE
BARS ONE INCH ON ORIGINAL DRAWING
ADJUST SCALES ACCORDINGLY
0' 1'

ReidMiddleton

728 134th Street SW - Suite 200
Everett, Washington 98204
Ph: 425 741-3800

C.R.P. NO. 95510-2	ROAD NO. 95510
FEDERAL AID NO. STPH-000S(188)	
DESIGNED BY: KTW	
DRAWN BY: PCG	
CHECKED BY: MJW	
APPROVED BY:	
DATE: FEBRUARY 23, 2006	
REVISIONS	
NO. BY DATE DESCRIPTION	

SKAGIT PUBLIC WORKS
MOUNT VERNON, WASHINGTON
CONTACT:
JANICE MARLEGA
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
PH: 360-336-9400 FAX: 360-336-9369

COUNTY ENGINEER DATE



HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT
LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

TYPICAL ROADWAY SECTION & DETAILS

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

SHEET

I.1

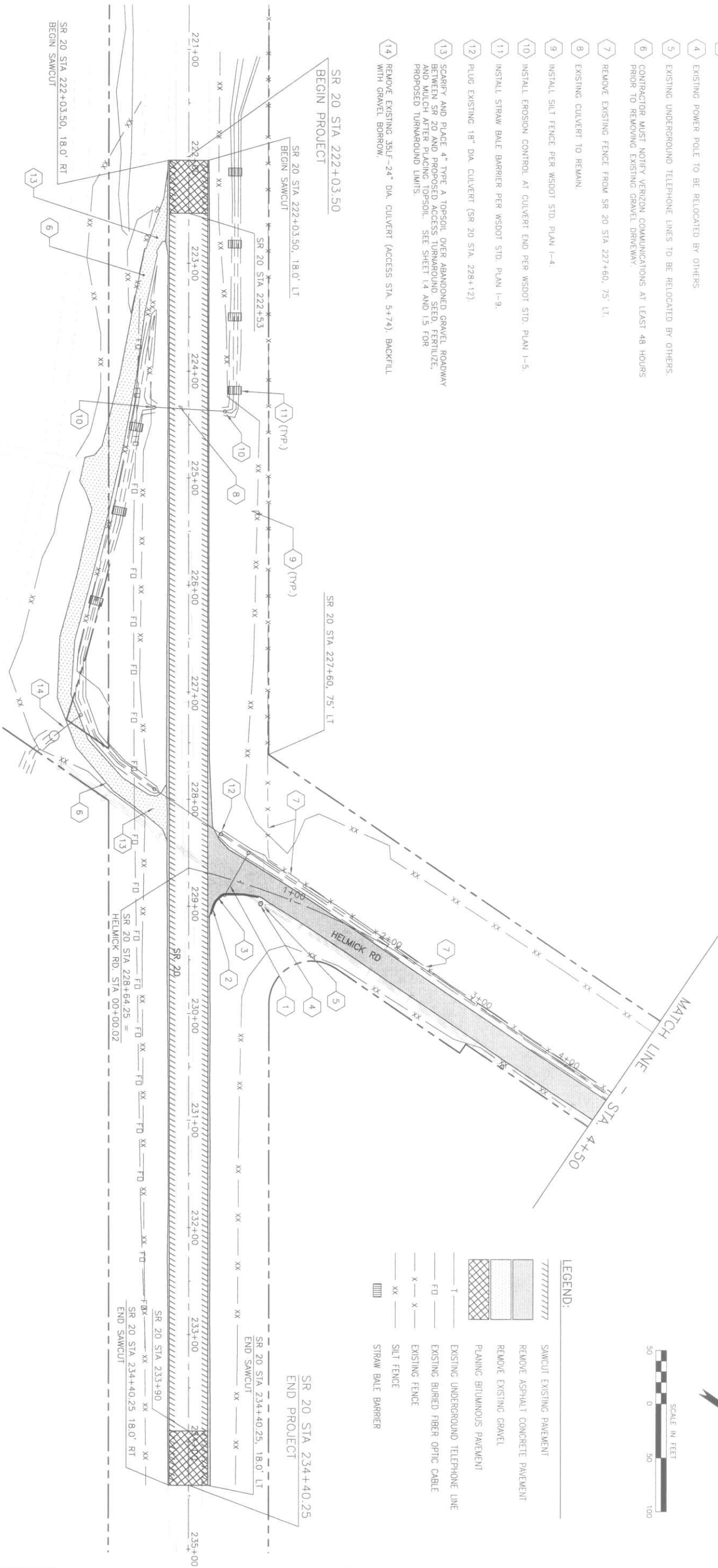
CONSTRUCTION NOTES:

- 1 REMOVE EXISTING 45LF-18" DIA. CULVERT (HELMICK STA. 0+43). BACKFILL WITH GRAVEL BORROW.
- 2 REMOVE EXISTING WALL.
- 3 REMOVE EXTRUDED CURB.
- 4 EXISTING POWER POLE TO BE RELOCATED BY OTHERS
- 5 EXISTING UNDERGROUND TELEPHONE LINES TO BE RELOCATED BY OTHERS.
- 6 CONTRACTOR MUST NOTIFY VERIZON COMMUNICATIONS AT LEAST 48 HOURS PRIOR TO REMOVING EXISTING GRAVEL DRIVEWAY.
- 7 REMOVE EXISTING FENCE FROM SR 20 STA 227+60. 75' LT.
- 8 EXISTING CULVERT TO REMAIN.
- 9 INSTALL SILT FENCE PER WSDOT STD. PLAN I-4.
- 10 INSTALL EROSION CONTROL AT CULVERT END PER WSDOT STD. PLAN I-5.
- 11 INSTALL STRAW BALE BARRIER PER WSDOT STD. PLAN I-9.
- 12 PLUG EXISTING 18" DIA. CULVERT (SR 20 STA. 228+12)
- 13 SCARIFY AND PLACE 4" TYPE A TOPSOIL OVER ABANDONED GRAVEL ROADWAY BETWEEN SR 20 AND PROPOSED ACCESS TURNAROUND. SEED, FERTILIZE, AND MULCH AFTER PLACING TOPSOIL. SEE SHEET 14 AND 15 FOR PROPOSED TURNAROUND LIMITS.
- 14 REMOVE EXISTING 35LF-24" DIA. CULVERT (ACCESS STA. 5+74). BACKFILL WITH GRAVEL BORROW.

GENERAL NOTE:

1. REFER TO SHEET C6 FOR HELMICK ROAD MATCHLINE.

SEC. 17, T. 35 N., R. 5 E., W.M.



LEGEND:

- SAWCUT EXISTING PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE EXISTING GRAVEL
- PLANING BITUMINOUS PAVEMENT
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING BURIED FIBER OPTIC CABLE
- EXISTING FENCE
- SILT FENCE
- STRAW BALE BARRIER



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HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT

LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

SITE PREPARATION AND T.E.S.C. PLAN



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MOUNT VERNON, WASHINGTON

CONTACT:
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COUNTY ENGINEER DATE

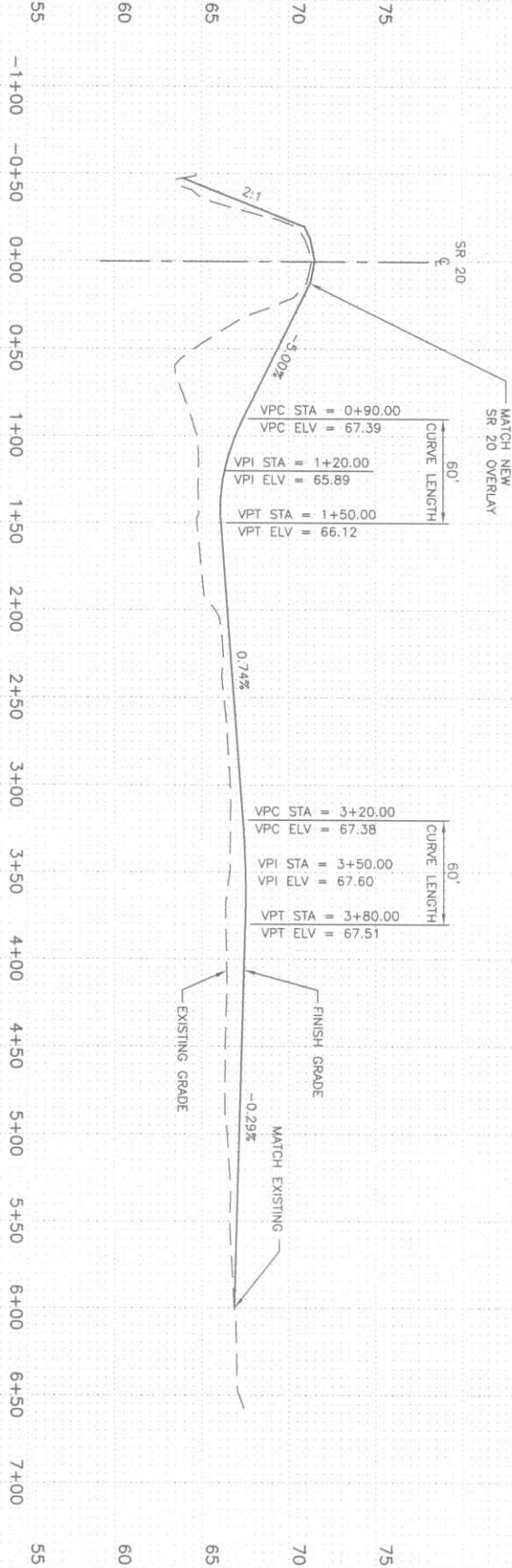
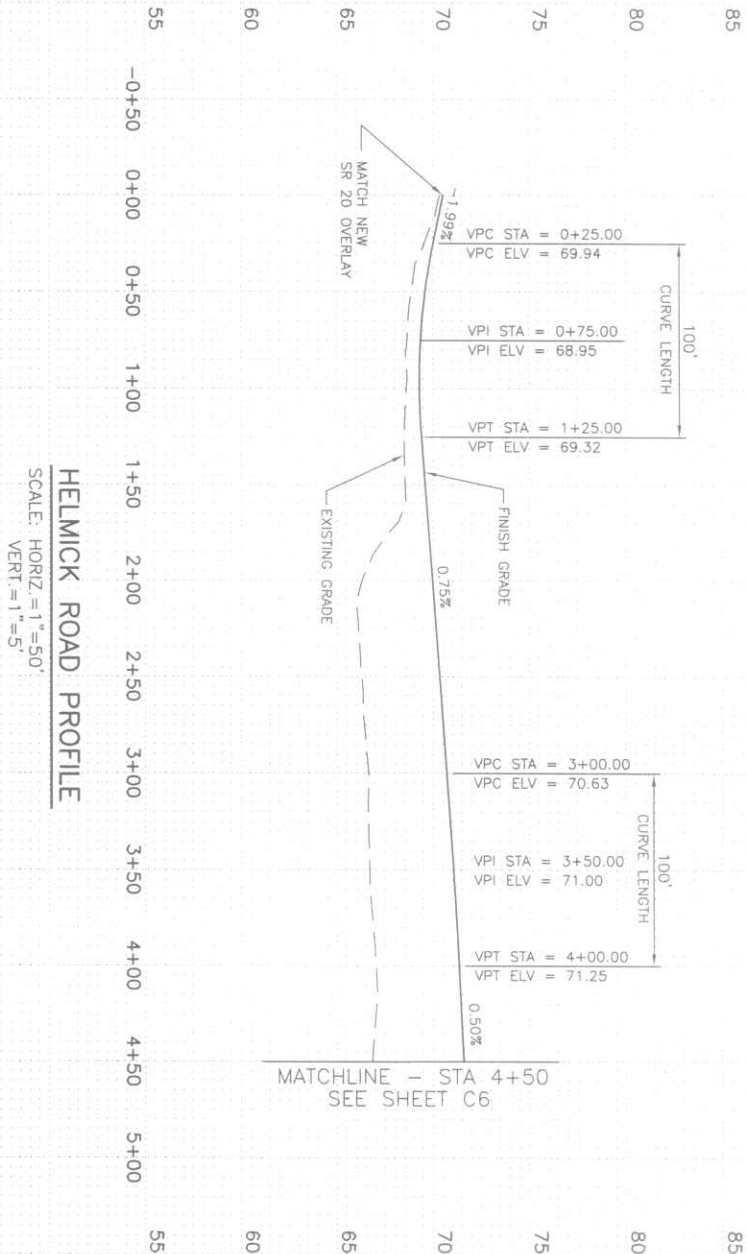
C.R.P. NO. 95510-2 ROAD NO. 95510			
FEDERAL AID NO. STPH-0005(188)			
DESIGNED BY: KTW			
DRAWN BY: PCG			
CHECKED BY: MJW			
APPROVED BY:			
DATE: FEBRUARY 23, 2006			
REVISIONS			
NO.	BY	DATE	DESCRIPTION

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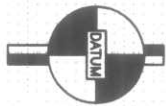
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Everett, Washington 98204
Ph: 425 741-3800

SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
ADJUST SCALES ACCORDINGLY
0" = 1"

SEC. 17, T. 35 N., R. 5 E., W.M.



NOTICE
THE INFORMATION CONTAINED HEREIN IS REPRESENTATIVE OF EXISTING CONDITIONS. REID MIDDLETON DOES NOT GUARANTEE THE INFORMATION CONTAINED HEREIN AND FIELD VERIFICATION IS RECOMMENDED.



U.S.G.S.
NGVD 29



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MOUNT VERNON, WASHINGTON
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MOUNT VERNON, WA 98273
PH: 360-336-9400 FAX: 360-336-9369

C.R.P. NO.	95510-2	ROAD NO.	95510
FEDERAL AID NO.	STPH-0005(188)	DESIGNED BY:	KTW
DRAWN BY:	PCG	CHECKED BY:	MJW
APPROVED BY:		DATE:	FEBRUARY 23, 2006
REVISIONS		NO.	BY
		DATE	DESCRIPTION

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SCALE
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ADJUST SCALES ACCORDINGLY
0' 1'

HELMICK ROAD SAFETY IMPROVEMENT AND ENVIRONMENTAL ENHANCEMENT PROJECT
LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.
ROAD AND DRIVEWAY PROFILES

CALL 48 HOURS BEFORE YOU DIG
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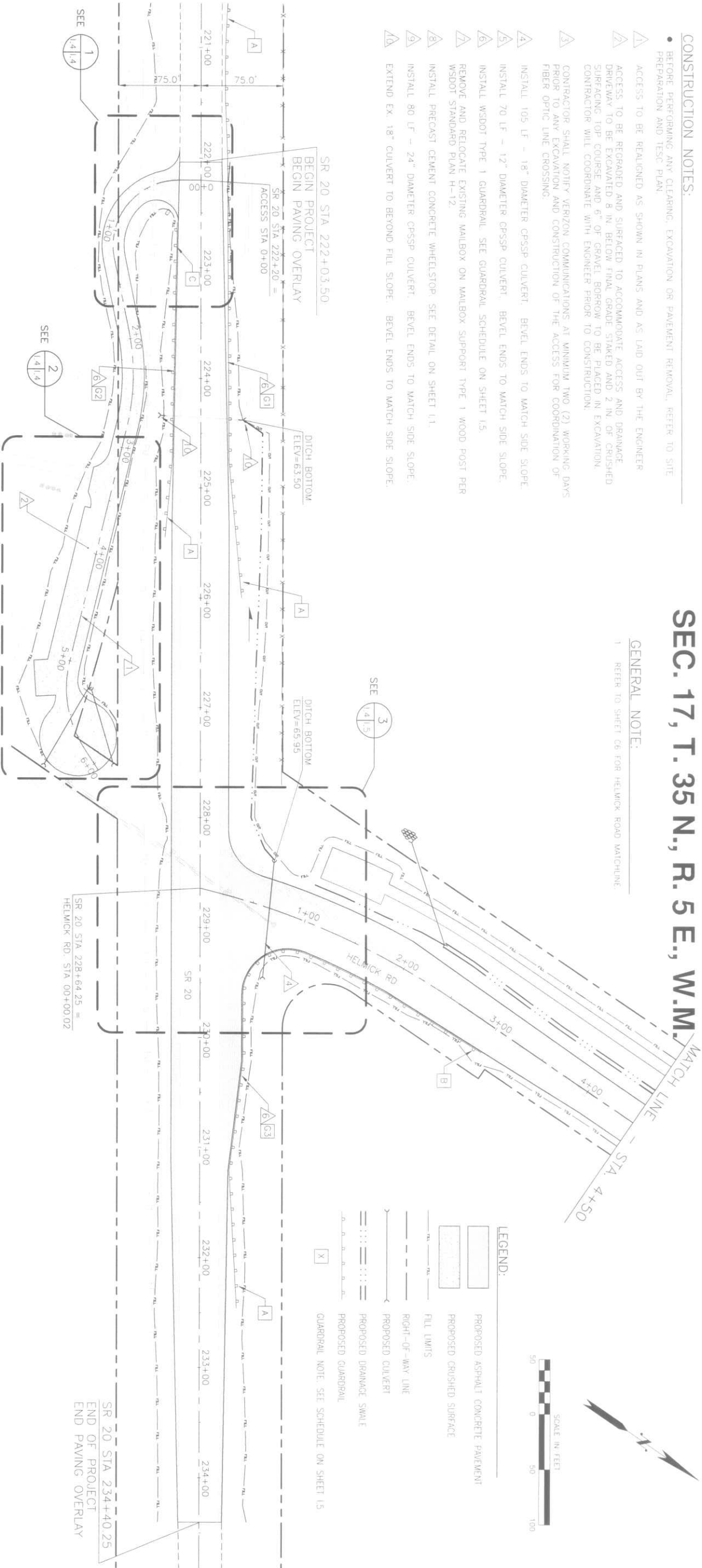
CONSTRUCTION NOTES:

- BEFORE PERFORMING ANY CLEARING, EXCAVATION OR PAVEMENT REMOVAL, REFER TO SITE PREPARATION AND TESC PLAN
- 1 ACCESS TO BE REALIGNED AS SHOWN IN PLANS AND AS LAID OUT BY THE ENGINEER
- 2 ACCESS TO BE REGRADED AND SURFACED TO ACCOMMODATE ACCESS AND DRAINAGE DRIVEWAY TO BE EXCAVATED 8 IN. BELOW FINAL GRADE STAKED AND 2 IN. OF CRUSHED SURFACING TOP COURSE AND 6" OF GRAVEL BORROW TO BE PLACED IN EXCAVATION. CONTRACTOR WILL COORDINATE WITH ENGINEER PRIOR TO CONSTRUCTION.
- 3 CONTRACTOR SHALL NOTIFY VERIZON COMMUNICATIONS AT MINIMUM TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION AND CONSTRUCTION OF THE ACCESS FOR COORDINATION OF FIBER OPTIC LINE CROSSING.
- 4 INSTALL 105 LF - 18" DIAMETER CPSSP CULVERT. BEVEL ENDS TO MATCH SIDE SLOPE.
- 5 INSTALL 70 LF - 12" DIAMETER CPSSP CULVERT. BEVEL ENDS TO MATCH SIDE SLOPE.
- 6 INSTALL WSDOT TYPE 1 GUARDRAIL. SEE GUARDRAIL SCHEDULE ON SHEET I.5.
- 7 REMOVE AND RELOCATE EXISTING MAILBOX ON MAILBOX SUPPORT TYPE 1 WOOD POST PER WSDOT STANDARD PLAN H-12.
- 8 INSTALL PRECAST CEMENT CONCRETE WHEELSTOP. SEE DETAIL ON SHEET I.1.
- 9 INSTALL 80 LF - 24" DIAMETER CPSSP CULVERT. BEVEL ENDS TO MATCH SIDE SLOPE.
- 10 EXTEND EX. 18" CULVERT TO BEYOND FILL SLOPE. BEVEL ENDS TO MATCH SIDE SLOPE.

SEC. 17, T. 35 N., R. 5 E., W.M.

GENERAL NOTE:

- 1 REFER TO SHEET C6 FOR HELMICK ROAD MATCHLINE.



LEGEND:

- PROPOSED ASPHALT CONCRETE PAVEMENT
- PROPOSED CRUSHED SURFACE
- FILL LIMITS
- RIGHT-OF-WAY LINE
- PROPOSED CULVERT
- PROPOSED DRAINAGE SWALE
- PROPOSED GUARDRAIL
- GUARDRAIL NOTE: SEE SCHEDULE ON SHEET I.5

SKAGIT PUBLIC WORKS
COUNTY

CONTACT:
JANICE MARLEGA
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
PH: 360-336-9400 FAX: 360-336-9369

COUNTY ENGINEER DATE

C.R.P. NO. 95510-2 ROAD NO. 95510

FEDERAL AID NO. STPH-000S(188)

DESIGNED BY: KTW

DRAWN BY: PCG

CHECKED BY: MJW

APPROVED BY: DATE: FEBRUARY 23, 2006

REVISIONS
NO. BY DATE DESCRIPTION

ReidMiddleton

726 134th Street SW, Suite 200
Everett, Washington 98204
Ph: 425 741-3800

SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
ALIST SCALES ACCORDING TO

0' 50' 100'



HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT

LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

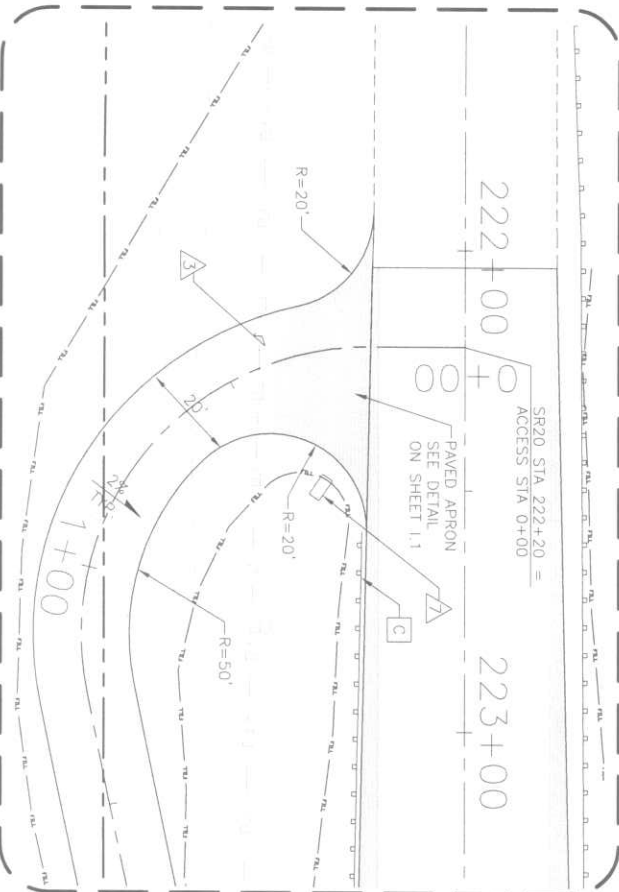
PAVING AND GRADING PLAN

SHEET

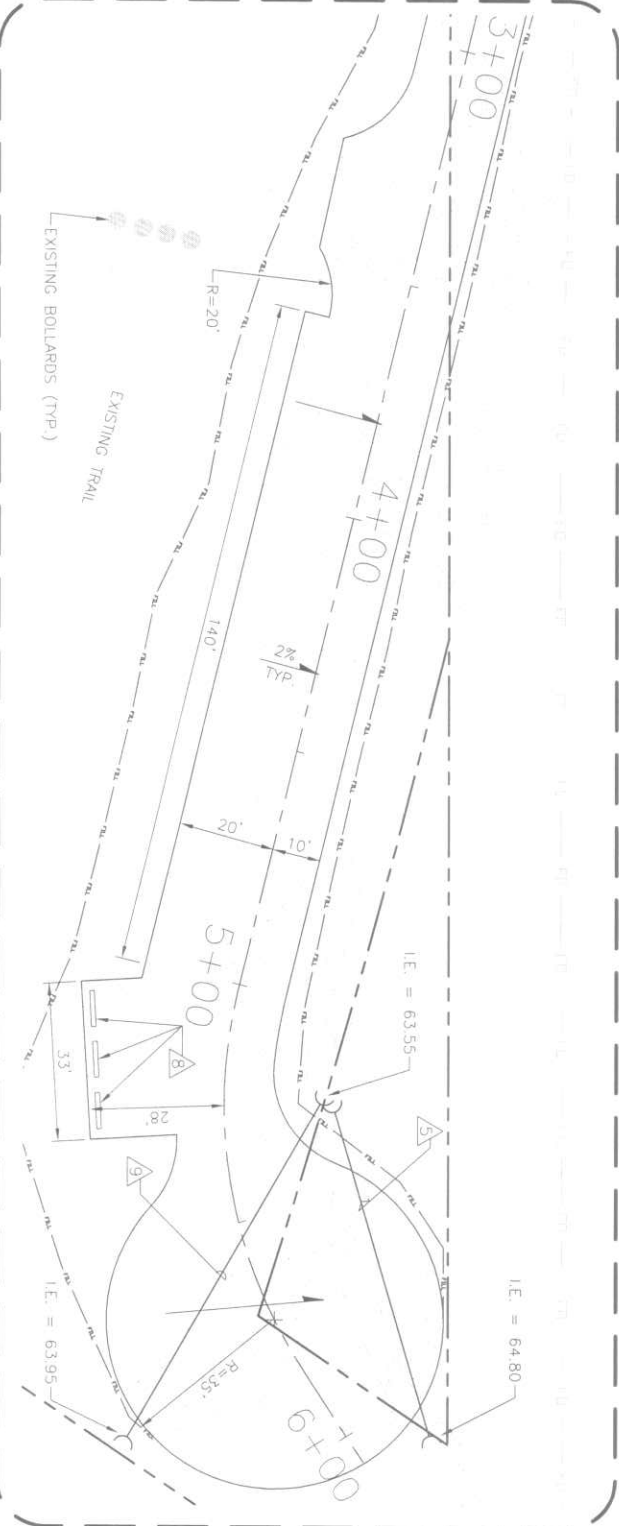
1.4

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1 ACCESS DRIVEWAY DETAIL
SCALE: 1" = 20'-0"



2 ACCESS DRIVEWAY PARKING AREA DETAIL
SCALE: 1" = 20'-0"



SEC. 17, T. 35 N., R. 5 E., W.M.



3 SR 20/HELMICK ROAD INTERSECTION DETAIL
1/4"=1.5' SCALE: 1" = 20'-0"

LEGEND:		
	PROPOSED ASPHALT CONCRETE PAVEMENT	
	PROPOSED CRUSHED SURFACE	
	FILL LIMITS	
	RIGHT-OF-WAY LINE	
	PROPOSED CULVERT	
	PROPOSED DRAINAGE SWALE	
	PROPOSED GUARDRAIL	

SR 20 SIDE SLOPE SCHEDULE		
SIDE	STA. TO STA.	SLOPE
LEFT/ NORTH	SR 20 STA. 222+03.50 TO SR 20 STA. 224+50	2:1
RIGHT/ SOUTH	SR 20 STA. 223+00 TO SR 20 STA. 225+00	2:1
LEFT/ NORTH	SR 20 STA. 229+61.20 TO SR 20 STA. 231+21.10	2:1

• ALL OTHER SIDE SLOPES AT 4:1

NW CURVE DATA			
HORIZONTAL	VERTICAL	VERTICAL	
STATION	OFFSET TO EDGE OF TRAVELED WAY	EDGE OF TRAVELED WAY ELEVATIONS	EDGE OF PAVEMENT ELEVATIONS
PC = SR 20 STA. 228+12.41	18.0' RT	70.16	70.00
1/4 D = SR 20 STA. 228+28.01	20.5' LT	70.08	69.92
1/2 D = SR 20 STA. 228+42.06	27.7' LT	69.89	69.73
3/4 D = SR 20 STA. 0+34.46	20.7' LT	69.57	69.41
PT = HELMICK STA. 0+49.62	18.0' LT	69.18	69.02

NE CURVE DATA			
HORIZONTAL	VERTICAL	VERTICAL	
STATION	OFFSET TO EDGE OF TRAVELED WAY	EDGE OF TRAVELED WAY ELEVATIONS	EDGE OF PAVEMENT ELEVATIONS
PC = HELMICK STA. 1+11.24	18.0' RT	68.89	68.73
1/4 D = HELMICK STA. 0+86.89	23.5' RT	68.82	68.62
1/2 D = HELMICK STA. 0+67.25	38.8' RT	68.74	68.42
3/4 D = SR 20 STA. 229+37.57	35.9' LT	69.60	69.20
PT = SR 20 STA. 229+61.11	30.0' LT	69.74	69.58

GUARDRAIL NOTES:

1. GUARDRAILS SHALL BE TYPE 1 (W-BEAM) PER WSDOT STANDARD PLAN C-1.
2. GUARDRAIL TERMINALS SHALL BE FLARED END TERMINALS (SRT-350) PER WSDOT STANDARD PLAN C-4b OR NON-FLARED TERMINAL ET-PLUS (TL2/TL3) PER WSDOT STANDARD PLAN C-4c.

GUARDRAIL SCHEDULE			
ITEM #	STA. TO STA.	L.F. LENGTH	POST TYPE
A	VARIOUS	N/A	WOOD
B	VARIOUS	N/A	WOOD
C	VARIOUS	N/A	WOOD
G1	SR 20 STA. 221+00 (22' LT) TO SR 20 STA. 224+75 (26' LT)	375	WOOD
G2	SR 20 STA. 223+00 (22' RT) TO SR 20 STA. 224+75 (26' RT)	175	WOOD
G3	HELMICK STA. 3+00 (20' RT) TO SR 20 STA. 231+21.10 (25.8' RT)	425	WOOD

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SCALE
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ADJUST SCALES ACCORDINGLY
0' 1'

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Everett, Washington 98204
Ph 425 741-3800

C.R.P. NO. 95510-2	ROAD NO. 95510
FEDERAL AID NO. STPH-000S(188)	
DESIGNED BY: KTW	
DRAWN BY: PCG	
CHECKED BY: MJW	
APPROVED BY:	
DATE: FEBRUARY 23, 2006	
REVISIONS	
NO. BY DATE DESCRIPTION	

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COUNTY WORKS
MOUNT VERNON, WASHINGTON
CONTACT:
JANICE MARLEGA
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
PH: 360-336-9400 FAX: 360-336-9369

COUNTY ENGINEER DATE



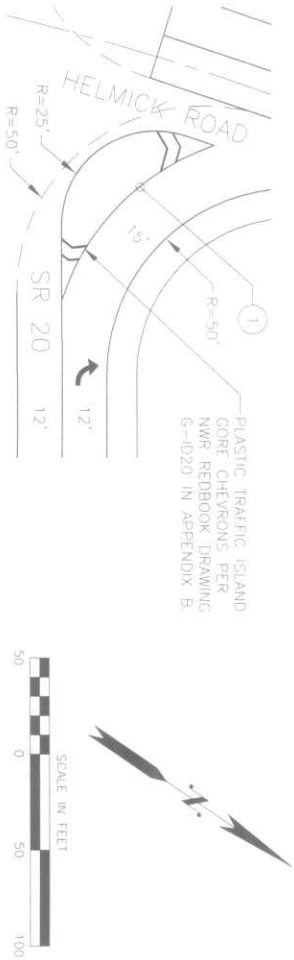
HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT
LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

INTERSECTION PAVING & GRADING PLAN

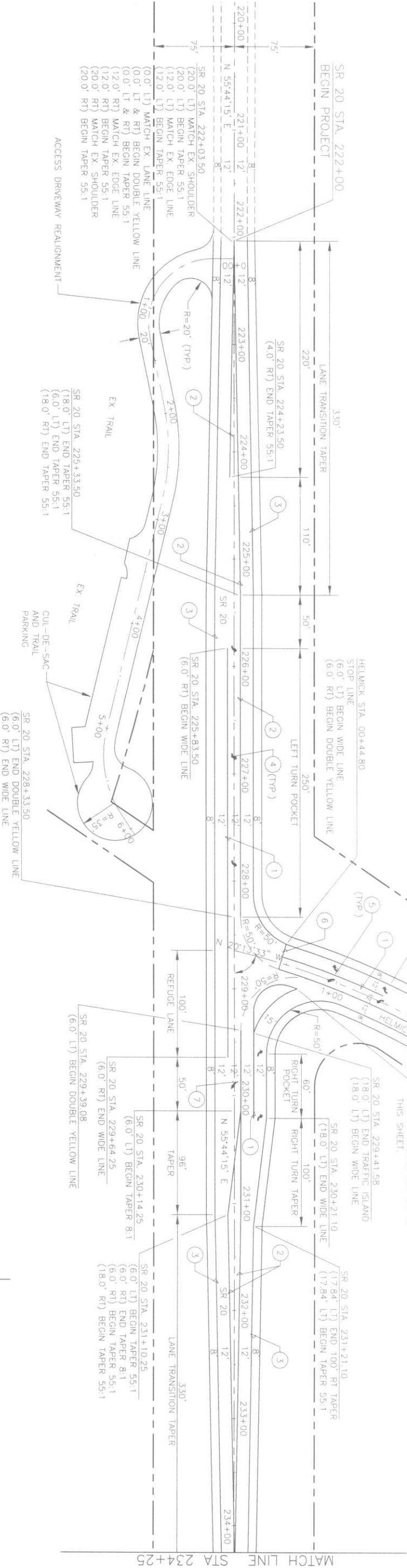
SHEET

1.5

SEC. 17, T. 35 N., R. 5 E., W.M.



PAINTED TRAFFIC ISLAND DETAIL
SCALE: N.T.S.



CHANNELIZATION & STRIPING NOTES

THE SR 20 CHANNELIZATION SHOWN ON THIS SHEET IS BASED ON THE WSDOT APPROVED SR 20/HELMICK ROAD CHANNELIZATION PLAN DATED 12/23/05. ANY FURTHER MODIFICATIONS TO THE CHANNELIZATION MUST BE APPROVED BY WSDOT.

ALL STRIPING SHALL BE INSTALLED PER SECTION M OF THE WSDOT STANDARD PLANS, CHAPTER 340 OF THE WSDOT DESIGN MANUAL, AND SECTIONS 3A AND 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL DOUBLE YELLOW LINES, WIDE LINES, GORE CHEVRONS, AND EDGE LINES SHALL BE TYPE-A THERMOPLASTIC PER STANDARD SPECIFICATIONS 9-34.3(1).

ALL STOP LINES AND TRAFFIC ARROWS SHALL BE TYPE-D METHYLMETHACRYLATE (MMA) PER STANDARD SPECIFICATIONS 9-34.3(4).

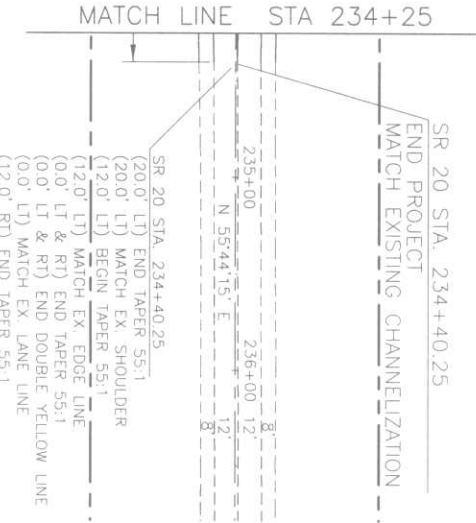
- 1 PLASTIC WIDE LINE (WSDOT STD. PLAN M-20.10-00)
- 2 PLASTIC LINE - DOUBLE YELLOW (WSDOT STD. PLAN M-20.10-00)
- 3 PLASTIC EDGE LINE - WHITE (WSDOT STD. PLAN M-20.10-00)
- 4 PLASTIC TYPE 2L (LEFT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.20-00 (SEE WSDOT STD. PLAN M-3.10.00 FOR ARROW PLACEMENT)
- 5 PLASTIC TYPE 2R (RIGHT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.20-00 (SEE WSDOT STD. PLAN M-5.10.00 FOR ARROW PLACEMENT)
- 6 PLASTIC STOP LINE
- 7 PLASTIC TYPE 6R (RIGHT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.20-00 (SEE WSDOT DESIGN MANUAL FIG. 340-6 FOR ARROW PLACEMENT)

GENERAL NOTE:

1. REFER TO SHEETS C6 FOR HELMICK ROAD MATCHLINE.
2. ALL PAVEMENT MARKERS ON SR 20 INCLUDING TRAFFIC ISLAND SHALL BE RECESSED PER WSDOT STD. PLAN M-20.30-00.

SR 20 CHANNELIZATION PLAN

SCALE: 1"=50'



CURVE DATA					
P.C. STATION	P.I. STATION	P.T. STATION	DELTA	RADIUS	TANGENT
HELMICK 00+10.31	HELMICK 01+36.01	HELMICK 02+59.06	20°21'36"	700.00'	125.70'
DRIVEWAY 00+19.71	DRIVEWAY 00+93.28	DRIVEWAY 01+26.11	101°36'26"	60.00'	73.58'
DRIVEWAY 01+92.19	DRIVEWAY 02+36.90	DRIVEWAY 02+80.16	25°12'09"	200.00'	44.71'
DRIVEWAY 05+01.50	DRIVEWAY 05+44.59	DRIVEWAY 05+82.88	46°37'36"	100.00'	43.09'
					81.38'

SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
ADJUST SCALES ACCORDINGLY

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Everett, Washington 98204
Ph 425 741-3800

C.R.P. NO. 95510-2	ROAD NO. 95510
FEDERAL AID NO. STPH-000S(18R)	
DESIGNED BY: KTW	
DRAWN BY: PCG	
CHECKED BY: MJW	
APPROVED BY:	
DATE: FEBRUARY 23, 2006	
REVISIONS	
NO.	BY DATE DESCRIPTION

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CONTACT:
JANICE MARLEGA
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MOUNT VERNON, WA 98273
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COUNTY ENGINEER DATE



HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT
LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

CHANNELIZATION PLAN

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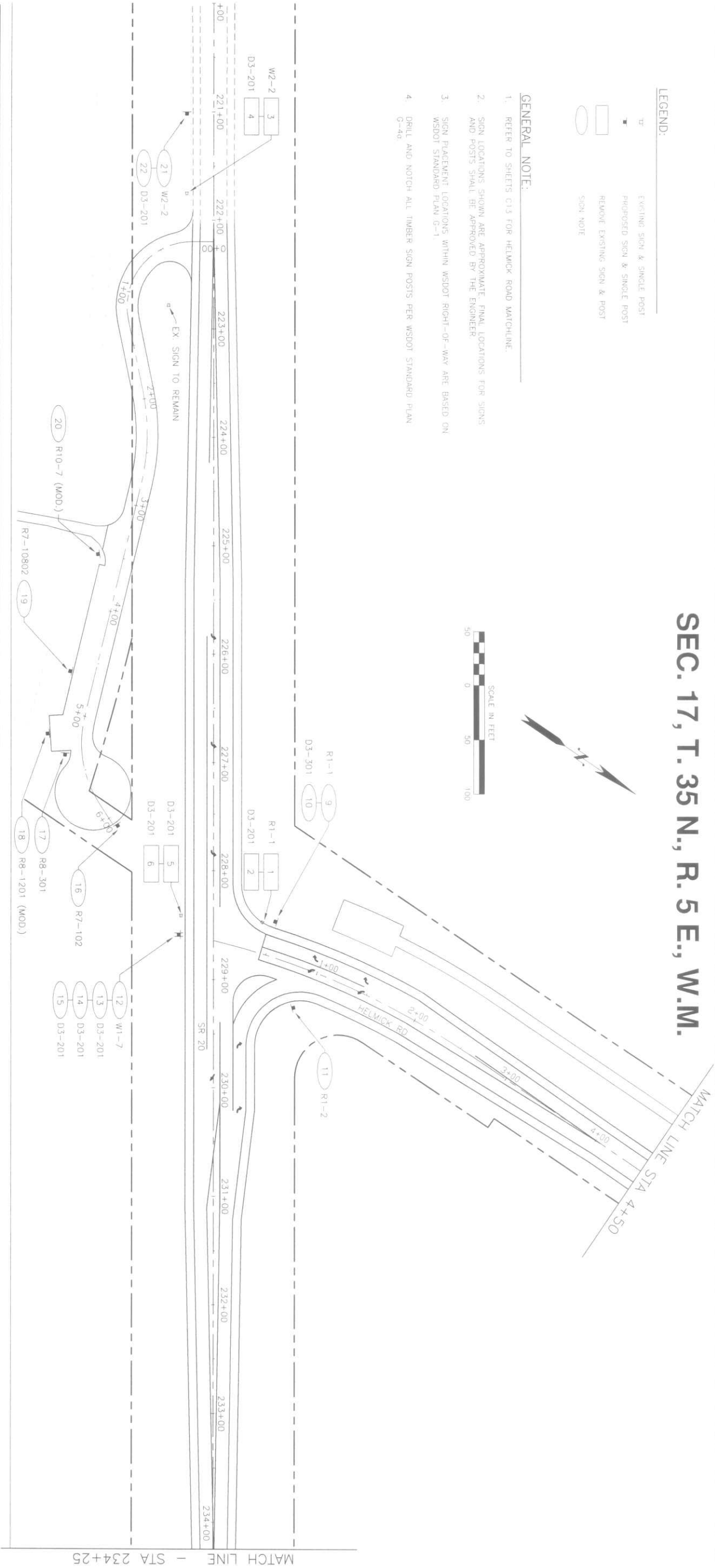
SEC. 17, T. 35 N., R. 5 E., W.M.

LEGEND:

- EXISTING SIGN & SINGLE POST
- PROPOSED SIGN & SINGLE POST
- REMOVE EXISTING SIGN & POST
- SIGN NOTE

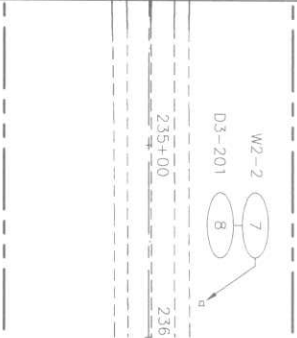
GENERAL NOTE:

- REFER TO SHEETS C13 FOR HELMICK ROAD MATCHLINE.
- SIGN LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS FOR SIGNS AND POSTS SHALL BE APPROVED BY THE ENGINEER.
- SIGN PLACEMENT LOCATIONS WITHIN WSDOT RIGHT-OF-WAY ARE BASED ON WSDOT STANDARD PLAN G-1
- DRILL AND NOTCH ALL TIMBER SIGN POSTS PER WSDOT STANDARD PLAN G-4a



SIGN #	SIGN CODE	NUMBER	LOCATION (STATION NUMBER)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		DESCRIPTION / REMARKS
				X	Y					H1	H2	H3	H4	V	W	
				SIGN REMOVAL												
1	R1-1		SR 20 STA. 228+47.64 (43.4' LT)	30	30			WOOD	4 X 6							"STOP" SIGN
2	D3-301		SR 20 STA. 228+47.64 (43.4' LT)	48	9			WOOD	4 X 6							"HELMICK ROAD" STREET NAME PLAQUE
3	W2-2		SR 20 STA. 221+75.83 (24.8' RT)	48	48			WOOD	4 X 6							SIDE ROAD SYMBOL
4	D3-201		SR 20 STA. 221+75.83 (24.8' RT)	48	9			WOOD	4 X 6							"HELMICK ROAD" STREET NAME PLAQUE
5	D3-201		SR 20 STA. 228+42.00 (30.0' RT)	48	9			WOOD	4 X 6							"HELMICK ROAD" STREET NAME PLAQUE
6	D3-201		SR 20 STA. 228+42.00 (30.0' RT)	48	9			WOOD	4 X 6							"HELMICK ROAD" STREET NAME PLAQUE
SIGN REPLACEMENT																
7	W2-2		SR 20 STA. 235+81.50 (32.0' LT)	48	48	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	17	17			7'	20'	SIDE ROAD SYMBOL
8	D3-201		SR 20 STA. 235+81.50 (32.0' LT)	48	9	TYPE II - SUPER ENGINEER GRADE	6 IN.	WOOD	4 X 6	-	-			5'	20'	"HELMICK ROAD" STREET NAME PLAQUE
NEW SIGN INSTALLATION																
9	R1-1		HELMICK STA. 0+49.50 (38.0' LT)	36	36	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	15				7'	20'	"STOP"
10	D3-301		HELMICK STA. 0+49.50 (38.0' LT)	48	9	TYPE II - SUPER ENGINEER GRADE	6 IN.	WOOD	4 X 6					5'	20'	"HELMICK ROAD" STREET NAME PLAQUE
11	R1-2		HELMICK STA. 0+91.00 (36.0' RT)	36	36	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	14				7'	13'	"YIELD"
12	W1-7		SR 20 STA. 228+59.00 (38.0' RT)	48	24	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	14				7'	20'	LARGE ARROW (2 HEADS)
13	D3-201		SR 20 STA. 228+59.00 (38.0' RT)	48	9	TYPE II - SUPER ENGINEER GRADE	6 IN.	WOOD	4 X 6					10'	20'	"HELMICK ROAD" STREET NAME PLAQUE
14	D3-201		SR 20 STA. 228+59.00 (38.0' RT)	48	9	TYPE II - SUPER ENGINEER GRADE	6 IN.	WOOD	4 X 6					10'	20'	"HELMICK ROAD" STREET NAME PLAQUE
15	D3-201		SR 20 STA. 228+59.00 (38.0' RT)	48	9	TYPE II - SUPER ENGINEER GRADE	6 IN.	WOOD	4 X 6					9'	20'	"SR 20" STREET NAME PLAQUE
16	R7-102		DRIVEWAY STA. 6+08.50 (2.5' LT)	12	18	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 4	12				7'	1'	"NO PARKING ANYTIME" (DOUBLE HEADED ARROW)
17	R8-301		DRIVEWAY STA. 5+14.00 (15.5' RT)	30	36	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	14				7'	1'	"NO PARKING BEYOND THIS POINT"
18	R8-1201 MOD.		DRIVEWAY STA. 5+18.50 (31.5' RT)	18	24	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 4	12				7'	1'	"4 HOURS MAXIMUM PARKING"
19	R7-10802		DRIVEWAY STA. 4+62.50 (23.0' RT)	12	18	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 4	12				7'	1'	"PARALLEL PARKING ONLY"
20	R10-7 MOD.		DRIVEWAY STA. 3+51.50 (23.5' RT)	12	18	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 4	12				7'	1'	"DO NOT BLOCK DRIVEWAY"
21	W2-2		SR 20 STA. 221+01.50 (32.0' RT)	48	48	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	17	17			7'	20'	SIDE ROAD SYMBOL
22	D3-201		SR 20 STA. 221+01.50 (32.0' RT)	48	9	TYPE II - SUPER ENGINEER GRADE		WOOD	4 X 6	-	-			5'	20'	"HELMICK ROAD" STREET NAME PLAQUE

MATCH LINE - STA 234+25



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HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT
LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

SIGNING PLAN



SKAGIT PUBLIC
COUNTY WORKS
CONTACT:
JANICE MARLEGA
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
PH: 360-336-9400 FAX: 360-336-9369

C.R.P. NO. 95510-2 ROAD NO. 95510			
FEDERAL AID NO. STPH-000S(188)			
DESIGNED BY: KTW			
DRAWN BY: PCG			
CHECKED BY: MJW			
APPROVED BY:			
DATE: FEBRUARY 23, 2006			
REVISIONS			
NO.	BY	DATE	DESCRIPTION

ReidMiddleton
728 134th Street SW Suite 200
Everett, Washington 98204
Ph 425 741-3800

SCALE
BARS ONE INCH ON ORIGINAL DRAWING
ADJUST SCALES ACCORDINGLY

COUNTY ENGINEER DATE

SEC. 17, T. 35 N., R. 5 E., W.M.

ILLUMINATION WIRE SCHEDULE		
RUN NO. 	CONDUCTORS	CONDUIT
1	3-#8	2"
2	2-#8 (ILL), 1-#8 (GROUND)	1"
3	SPARE	2"
4	FUTURE SIGNAL	2-3"
5	POWER	3-#3/0

ILL.=ILLUMINATION

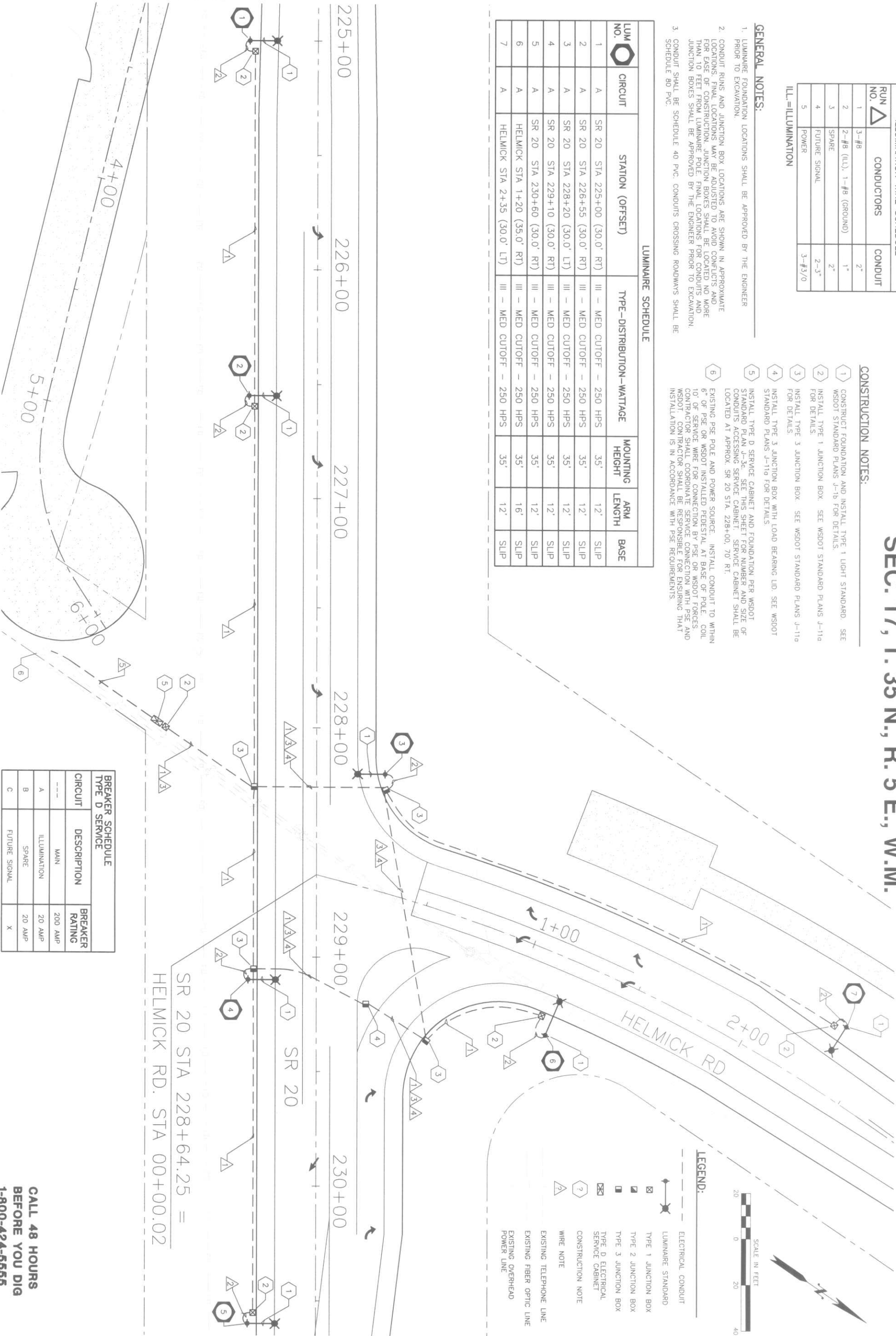
GENERAL NOTES:

- LUMINAIRE FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- CONDUIT RUNS AND JUNCTION BOX LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. JUNCTION BOXES SHALL BE LOCATED NO MORE THAN 10 FEET FROM LUMINAIRE POLE. FINAL LOCATIONS FOR CONDUITS AND JUNCTION BOXES SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- CONDUIT SHALL BE SCHEDULE 40 PVC. CONDUITS CROSSING ROADWAYS SHALL BE SCHEDULE 80 PVC.

LUMINAIRE SCHEDULE				
LUM NO. 	CIRCUIT	STATION (OFFSET)	TYPE-DISTRIBUTION-WATTAGE	MOUNTING HEIGHT ARM LENGTH BASE
1	A	SR 20 STA 225+00 (30.0' RT)	III - MED CUTOFF - 250 HPS	35' 12' SLIP
2	A	SR 20 STA 226+55 (30.0' RT)	III - MED CUTOFF - 250 HPS	35' 12' SLIP
3	A	SR 20 STA 228+20 (30.0' LT)	III - MED CUTOFF - 250 HPS	35' 12' SLIP
4	A	SR 20 STA 229+10 (30.0' RT)	III - MED CUTOFF - 250 HPS	35' 12' SLIP
5	A	SR 20 STA 230+60 (30.0' RT)	III - MED CUTOFF - 250 HPS	35' 12' SLIP
6	A	HELMICK STA 1+20 (35.0' RT)	III - MED CUTOFF - 250 HPS	35' 16' SLIP
7	A	HELMICK STA 2+35 (30.0' LT)	III - MED CUTOFF - 250 HPS	35' 12' SLIP

CONSTRUCTION NOTES:

- CONSTRUCT FOUNDATION AND INSTALL TYPE 1 LIGHT STANDARD. SEE WSDOT STANDARD PLANS J-1b FOR DETAILS.
- INSTALL TYPE 1 JUNCTION BOX. SEE WSDOT STANDARD PLANS J-11a FOR DETAILS.
- INSTALL TYPE 3 JUNCTION BOX. SEE WSDOT STANDARD PLANS J-11a FOR DETAILS.
- INSTALL TYPE 3 JUNCTION BOX WITH LOAD BEARING LID. SEE WSDOT STANDARD PLANS J-11a FOR DETAILS.
- INSTALL TYPE D SERVICE CABINET AND FOUNDATION PER WSDOT STANDARD PLAN J-3c. SEE THIS SHEET FOR NUMBER AND SIZE OF CONDUITS ACCESSING SERVICE CABINET. SERVICE CABINET SHALL BE LOCATED AT APPROX. SR 20 STA. 228+00, 70' RT.
- EXISTING PSE POLE AND POWER SOURCE. INSTALL CONDUIT TO WITHIN 6" OF PSE OR WSDOT INSTALLED PEDestal AT BASE OF POLE. COIL 10' OF SERVICE WIRE FOR CONNECTION BY PSE OR WSDOT FORCES. CONTRACTOR SHALL COORDINATE SERVICE CONNECTION WITH PSE AND WSDOT. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT INSTALLATION IS IN ACCORDANCE WITH PSE REQUIREMENTS.



BREAKER SCHEDULE TYPE D SERVICE		
CIRCUIT	DESCRIPTION	BREAKER RATING
---	MAIN	200 AMP
A	ILLUMINATION	20 AMP
B	SPARE	20 AMP
C	FUTURE SIGNAL	X

SR 20 STA 228+64.25 =
HELMICK RD. STA 00+00.02

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1-800-424-6666



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MOUNT VERNON, WA 98273
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C.R.P. NO. 95510-2	ROAD NO. 95510
FEDERAL AID NO. STPH-000S(188)	
DESIGNED BY: MJG, KTW	
DRAWN BY: PCG	
CHECKED BY: MJW	
APPROVED BY:	
DATE: FEBRUARY 23, 2006	
REVISIONS	
NO. BY DATE DESCRIPTION	

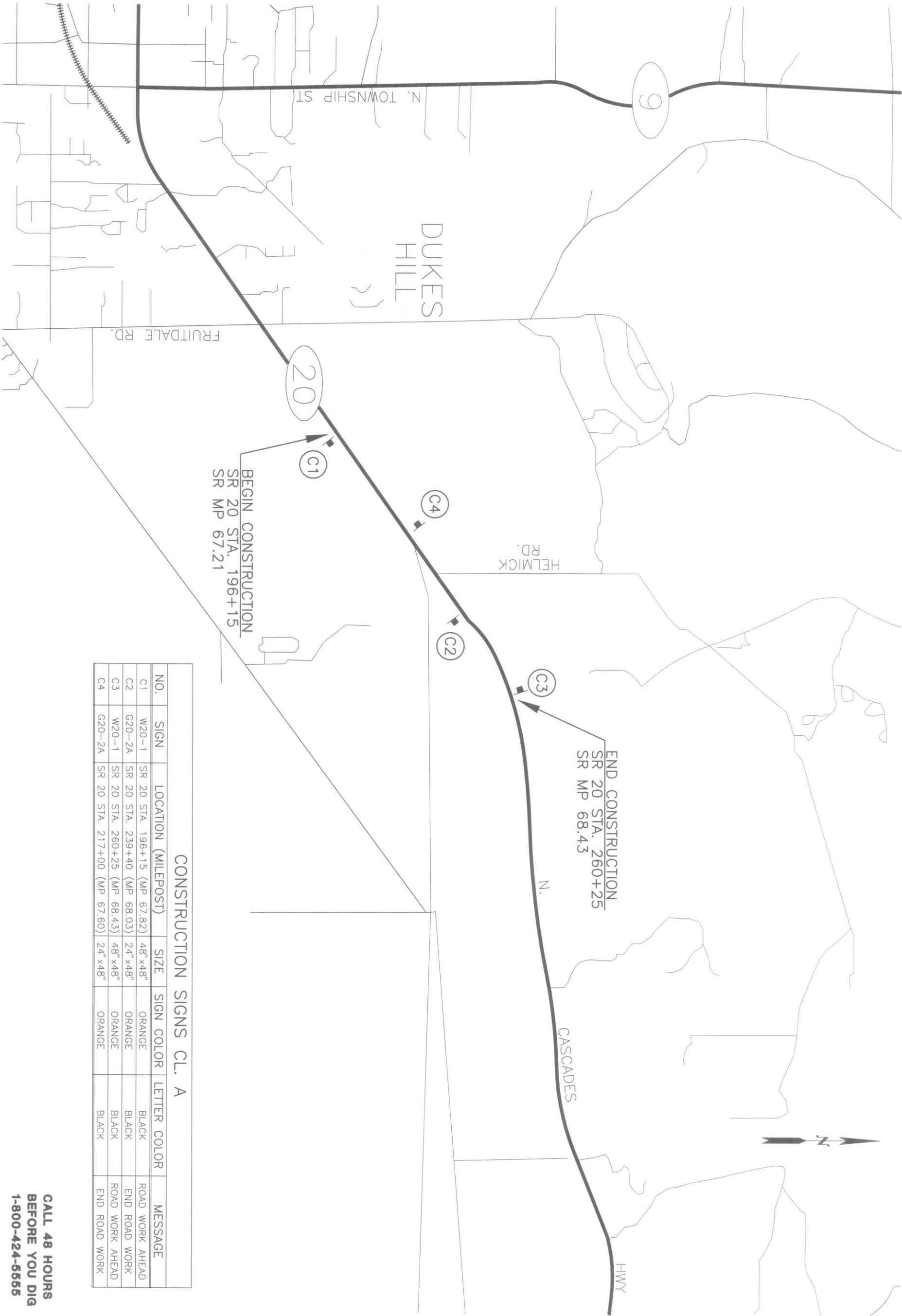
ReidMiddleton
728 134th Street SW Suite 200
Everett, Washington 98204
Ph: 425 741-3800

HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT

LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

ILLUMINATION PLAN

SEC. 17, T. 35 N., R. 5 E., W.M.



CONSTRUCTION SIGNS CL. A						
NO.	SIGN	LOCATION (MILEPOST)	SIZE	SIGN COLOR	LETTER COLOR	MESSAGE
C1	W20-1	SR 20 STA. 196+15 (MP 67.82)	48"x48"	ORANGE	BLACK	ROAD WORK AHEAD
C2	G20-2A	SR 20 STA. 239+40 (MP 68.03)	24"x48"	ORANGE	BLACK	END ROAD WORK
C3	W20-1	SR 20 STA. 260+25 (MP 68.43)	48"x48"	ORANGE	BLACK	ROAD WORK AHEAD
C4	G20-2A	SR 20 STA. 217+00 (MP 67.60)	24"x48"	ORANGE	BLACK	END ROAD WORK

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SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

CONSTRUCTION SIGNING PLAN



SKAGIT PUBLIC
COUNTY WORKS

MOUNT VERNON, WASHINGTON

CONTACT:
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1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
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COUNTY ENGINEER DATE

C.R.P. NO. 95510-2		ROAD NO. 95510	
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Everett, Washington 98204
Ph: 425 741-3800

SCALE
BARS ONE INCH ON ORIGINAL DRAWING.
ADJUST SCALES ACCORDINGLY.

GENERAL NOTES:

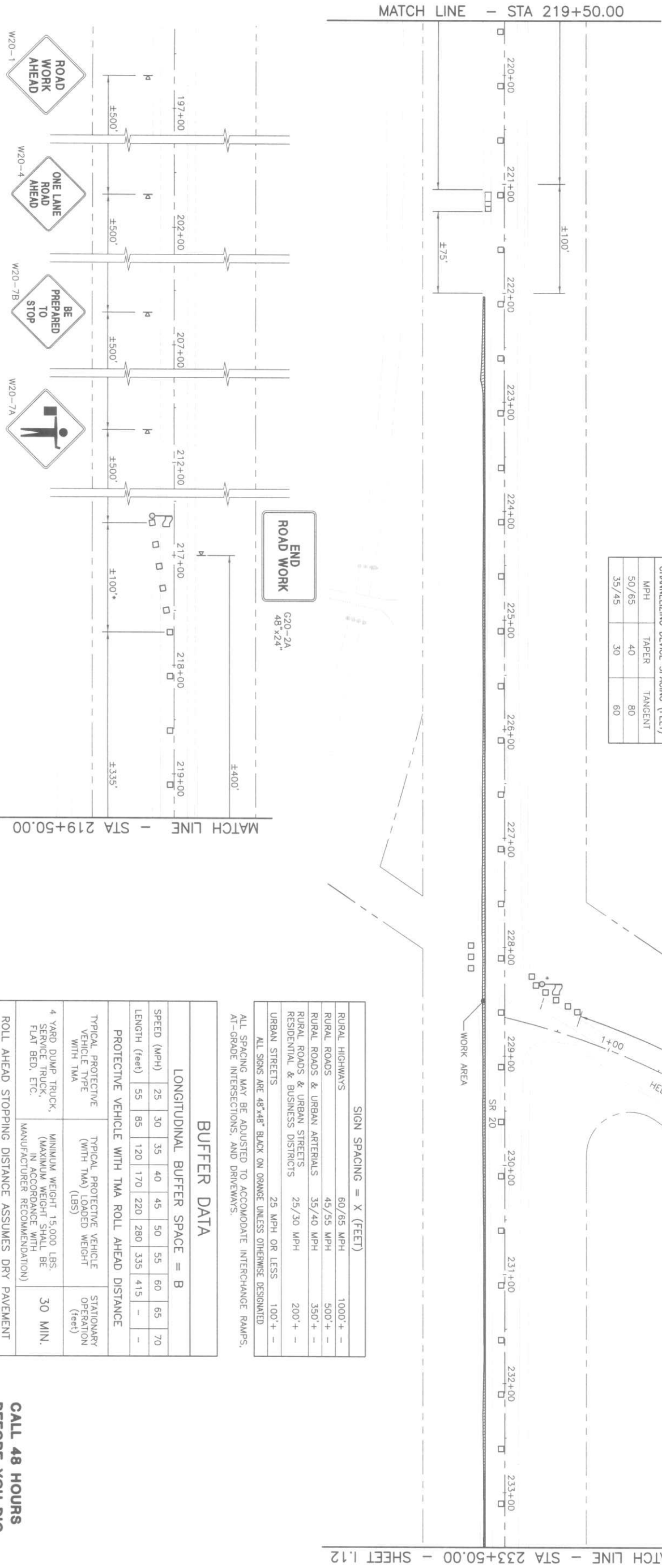
1. TRAFFIC CONTROL PLANS ARE BASED ON THE WASHINGTON STATE DEPT. OF TRANSPORTATION'S WORK ZONE TRAFFIC CONTROL GUIDELINES HANDBOOK (JAN. 2005) AND SECTION K OF THE WSDOT STANDARD PLANS.
2. USE OF A PROTECTIVE VEHICLE IS REQUIRED ON SR 20. IT MAY BE A WORK VEHICLE. MINIMUM DISTANCE FROM END OF TAPER TO WORK AREA SHALL BE A TOTAL OF "R" (ROLL AHEAD DISTANCE), PLUS LENGTH OF VEHICLE, PLUS "B" (BUFFER SPACE). R = 30 FEET AND B = 335 FEET, BASED ON POSTED 55 MPH SPEED PER TCP 1 (ALTERNATING ONE-WAY TRAFFIC, FLAGGER CONTROLLED) PLAN IN THE WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES HANDBOOK. SEE BUFFER DATA TABLE THIS SHEET. LOCATION OF THE BUFFER VEHICLE SHALL BE ADJUSTED DAILY TO FOLLOW THE PROGRESSION OF WORK ALONG SR 20 AND MAINTAIN A MINIMUM R DISTANCE OF 30 FEET FROM THE WORK AREA.
3. SIGN SPACING ON SR 20 IS 500 FEET, BASED ON THE POSTED 55 MPH SPEED LIMIT PER WSDOT STANDARD PLAN K-3 AND THE SIGN SPACING TABLE ON THIS SHEET. SIGN SPACING ON HELMICK ROAD IS 350 FEET, BASED ON THE POSTED 35 MPH SPEED LIMIT PER WSDOT STANDARD PLAN K-3 AND THE SIGN SPACING TABLE ON THIS SHEET.
4. MAINTAIN MINIMUM 11-FOOT LANE WIDTH ON SR 20.
5. INSTALL "END ROAD WORK" SIGN A MAXIMUM DISTANCE OF 500 FEET BEYOND PROJECT LIMITS.
6. CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL TO PERFORM "TRAFFIC CONTROL SUPERVISOR'S" (TCS) DUTIES PER WSDOT STANDARD SPECIFICATION 1-10.2(1).
7. TRAFFIC CONTROL PROCEDURES AND DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE 2006 WSDOT STANDARD SPECIFICATION 1-10 AND SPECIAL PROVISIONS, TEMPORARY TRAFFIC CONTROL.

SEC. 17, T. 35 N., R. 5 E., W.M.

8. 36" MINIMUM HEIGHT SAFETY DRUMS WITH TYPE "C" STEADY BURN LIGHTS SHALL BE USED.
9. MAINTAIN PEDESTRIAN AND BICYCLE ACCESS AT ALL TIMES.
10. CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
11. FLAGGER STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS. REFER TO WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
12. EXTEND CHANNELIZING DEVICES TAPER ACROSS SHOULDER.
13. RADIO COMMUNICATIONS IS RECOMMENDED BETWEEN FLAGGERS, AND IS REQUIRED IF FLAGGERS DO NOT HAVE CLEAR VIEW OF EACH OTHER.
14. SHOULDER EXCAVATION SHALL BE LIMITED TO ONE SIDE OF ROADWAY AT A TIME.
15. PROVIDE SHOULDER WORK AREA PROTECTION DURING NON-WORKING HOURS PER WSDOT STANDARD PLAN K-11 (SHOULDER WORK AREAS). TRAFFIC CONTROL DEVICES SHALL BE 36" MIN. HEIGHT AND REFLECTORIZED, WITH TYPE "C" STEADY BURN LIGHTS. LOCATE AS DIRECTED. 48" X 48" "ABRUPT LANE EDGE" (W21-1801) SIGN, 48" X 48" "NO SHOULDER" (W8-1801) SIGN, AND 48" X 48" "MOTORCYCLES USE EXTREME CAUTION" (W21-1701) SIGN.
16. REFER TO SHEETS C14 FOR HELMICK ROAD CLASS A SIGNING PLAN.

* - 6 DEVICES MINIMUM.

CHANNELIZING DEVICE SPACING (FEET)			
MPH	TAPER	TANGENT	
50/65	40	80	
35/45	30	60	



LEGEND:

- SIGN LOCATION
- TEMPORARY TRAFFIC CONTROL DEVICE, TRAFFIC DRUM PER MUTCD PART 6F & WSDOT STANDARD SPECIFICATION 1-10
- FLAGGING STATION
- PROTECTIVE VEHICLE
- EXISTING STOP BAR



MATCH LINE - STA 233+50.00 - SHEET I.12

SIGN SPACING = X (FEET)

RURAL HIGHWAYS	60/65 MPH	1000' + -
RURAL ROADS	45/55 MPH	500' + -
RURAL ROADS & URBAN ARTERIALS	35/40 MPH	350' + -
RURAL STREETS & BUSINESS DISTRICTS	25/30 MPH	200' + -
URBAN STREETS	25 MPH OR LESS	100' + -

ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED. AT-GRADE INTERSECTIONS, AND DRIVEWAYS.

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	55	85	120	170	220	280	335	415	-	-

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION)	30 MIN.

ROLL AHEAD STOPPING DISTANCE ASSUMES DRY PAVEMENT

- * A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS AND NO ROLL AHEAD DISTANCE IS SPECIFIED.

SCALE
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Everett, Washington 98204
Ph: 425 741-3800

C.R.P. NO. 95510-2	ROAD NO. 95510
FEDERAL AID NO. STPH-000S(18B)	
DESIGNED BY: KTW	
DRAWN BY: PCG	
CHECKED BY: MJW	
APPROVED BY:	
DATE: FEBRUARY 23, 2006	
REVISIONS	
NO.	BY DATE DESCRIPTION

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1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
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COUNTY ENGINEER DATE



HELMICK ROAD SAFETY
IMPROVEMENT AND
ENVIRONMENTAL
ENHANCEMENT PROJECT

LOCATED NEAR
SEDRO-WOOLLEY, WA
SECTIONS 8, 9, AND 17, TWP 35, RGE 5 E, W.M.

TRAFFIC CONTROL PLAN

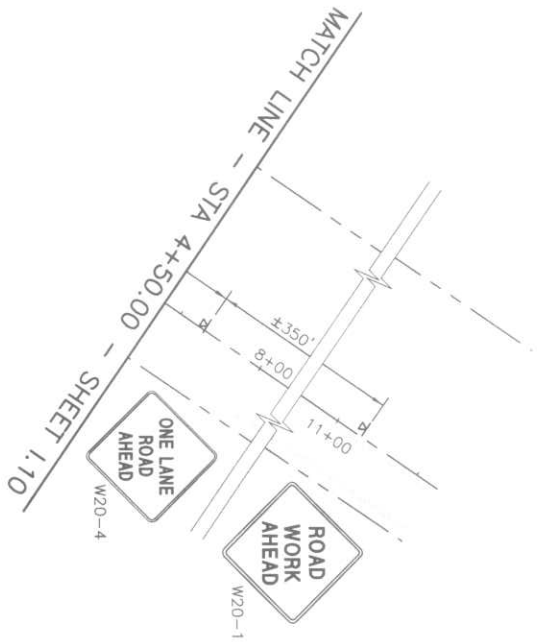
TRAFFIC CONTROL PLAN FOR INTERSECTION OF SR 20 AND HELMICK ROAD - SR 20 EASTBOUND LANE CLOSURE

SCALE: 1" = 50'

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-6666

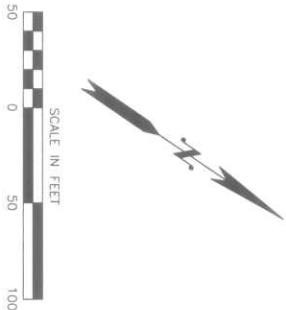
SHEET

SEC. 17, T. 35 N., R. 5 E., W.M.

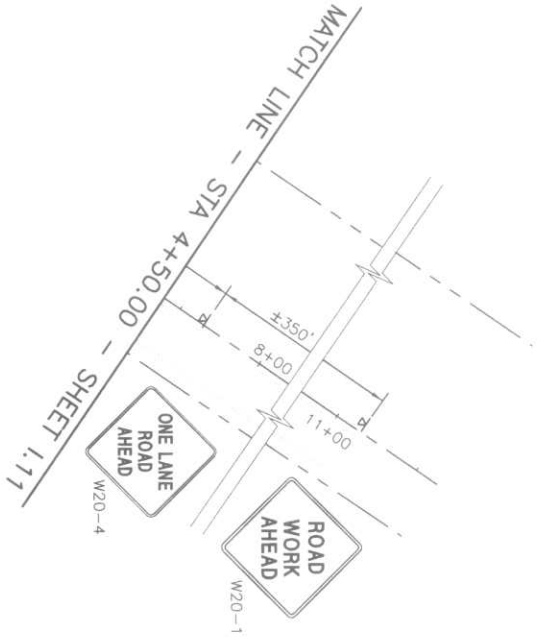


HELMICK ROAD – SR 20 EASTBOUND LANE CLOSURE

SCALE: 1" = 50'



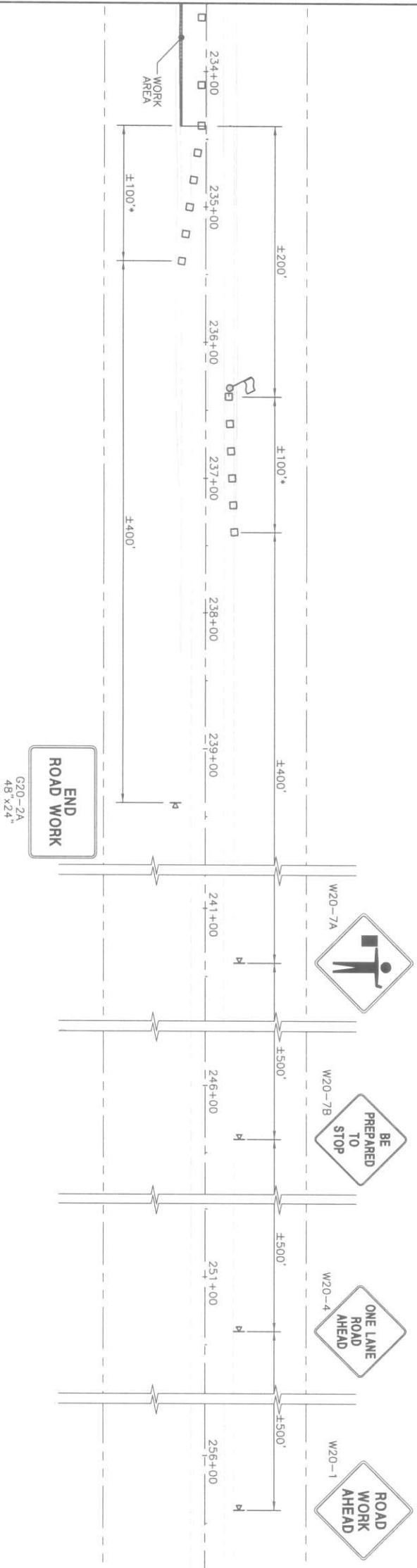
- LEGEND:
- SIGN LOCATION
 - TEMPORARY TRAFFIC CONTROL DEVICE, TRAFFIC DRUM PER MUTCD PART 6F & WSDOT STANDARD SPECIFICATION 1-110
 - FLAGGING STATION
 - PROTECTIVE VEHICLE



HELMICK ROAD – SR 20 WESTBOUND LANE CLOSURE

SCALE: 1" = 50'

MATCH LINE – STA 233+50.00 – SHEET I.10



TRAFFIC CONTROL PLAN FOR INTERSECTION OF SR 20 AND HELMICK ROAD – EASTBOUND SR 20 LANE CLOSURE

SCALE: 1" = 50'

CALL 48 HOURS
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TRAFFIC CONTROL PLAN



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C.R.P. NO. 95510-2 ROAD NO. 95510			
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SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
ADJUST SCALES ACCORDINGLY

SHEET

I.12