LEGOE AND WASHINGTON INTERSECTION IMPROVEMENTS

CITY OF FERNDALE

PROJECT NO. ST2013-03

VICINITY MAP



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ESIGNED BY		
KEC	R&E	Reichhardt & E
RAWN BY	$\mathbf{N}\alpha\Gamma$	ENGINEERING INC
HECKED BY		3 Front Street, Lynden, WA 982
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BID SET

COVER SHEET			DATE 10/11/13
3#	SCALE		SHEET
13041	H: N/A	v: N/A	001

LEGEND

EXISTING -----OH ----OH ---- = EXISTING OVERHEAD POWER = EXISTING CONCRETE ____ __ 95___ _ = EXISTING MAJOR CONTOUR ---- = EXISTING MINOR CONTOUR > = EXISTING CULVERT --- · · · --- = EXISTING DITCH \mathbb{Q} ____ X ___ X ___ = EXISTING FENCE - - - - - - - = EXISTING GUARDRAIL _____ = EXISTING GRAVEL ----- = EXISTING PROPERTY BOUNDARY — — = EXISTING ROAD € ____ = EXISTING EDGE OF PAVEMENT = EXISTING WALL _____ = EXISTING RIGHT OF WAY = EXISTING TREE LINE ----TS ---TS ---EXISTING TRAFFIC SIGNAL CONDUCTOR -----= EXISTING TRAFFIC STRIPING _____ = EXISTING PARKING STRIPING ----TB ---TB --- = EXISTING TOP OF BANK ----T----T--- = EXISTING TELEPHONE LINE ----TV ---TV --- = EXISTING TV LINE = EXISTING SIDEWALK = EXISTING WETLANDS BOUNDARY ----- = EXISTING EASEMENT _____ = EXISTING GRADE BREAK — = EXISTING FLOWLINE = EXISTING BUILDING = EXISTING CONCRETE = EXISTING RR TRACKS \rightarrow = EXISTING SIGNAL POLE AND ARM W/ LUMINAIRE <u>`</u>_¤ = EXISTING STREET LIGHT = EXISTING GUY WIRE 0 = EXISTING GAS METER Δ P = FXISTING TRANSFORMER PAD = EXISTING POWER VAULT \boxtimes = EXISTING JBOX 0 = EXISTING SOIL BORING LOCATION = EXISTING MAIL BOX = EXISTING WATER SPIGOT = EXISTING WATER METER = EXISTING WATER VALVE = EXISTING FIRE HYDRANT \square = EXISTING TRAFFIC SIGNAL VAULT = EXISTING SEWER MANHOLE = EXISTING STORM DRAIN CATCH BASIN TYPE I (D) = EXISTING STORM DRAIN CATCH BASIN TYPE II = EXISTING UTILITY POLE = EXISTING MONITORING WELL = FXISTING STORM CLEANOUT = EXISTING SEWER CLEANOUT

= FXISTING SIGN

= EXISTING VEGETATION

= EXISTING TELEPHONE PEDESTAL = EXISTING TREE

PROPOSED

— — — BB — — — BB —	= PROPOSED TOE OF BANK
	= PROPOSED SAWCUT
sp	= PROPOSED FIELD STORM DRAIN
95	= PROPOSED MAJOR CONTOUR
95 — 95 — 95 — 95 — 95 — 95 — 95 — 95 —	= PROPOSED MINOR CONTOUR
	= PROPOSED PAVEMENT VALLEY
	= PROPOSED DITCH &
xx	= PROPOSED FENCE
	= PROPOSED FIBER OPTICS
	= PROPOSED HANDRAIL
	= PROPOSED GUARDRAIL
	= PROPOSED GRAVEL
	= PROPOSED PATH
	= PROPOSED AUTOTURN
	= PROPOSED ROAD ©
	= PROPOSED ROAD & = PROPOSED ROAD EDGE OF PAVEMENT
.00000000000000	= PROPOSED ROCK WALL
	= PROPOSED RIGHT OF WAY
~~~~~~~~~	= PROPOSED TREE LINE
sp	= PROPOSED STORM DRAIN
————TS ————TS —	= PROPOSED TRAFFIC SIGNAL CONDUCTOR
ss	= PROPOSED SANITARY SEWER
-	= PROPOSED TRAFFIC STRIPE
-	= PROPOSED PARKING STRIPE
————тв ———тв —	= PROPOSED TOP OF BANK
	= PROPOSED BACK OF CURB
	= PROPOSED ROAD FACE OF CURB
	= PROPOSED ROAD LIP OF GUTTER
w	= PROPOSED WATER MAIN
-	= PROPOSED SIDEWALK
xx	= PROPOSED SILT FENCE
_ · · _	= PROPOSED CONSTRUCTION EASEMENT
	= PROPOSED GRADE BREAK
— — — FM — — — FM —	= PROPOSED SANITARY SEWER FORCE MAIN
UD	= PROPOSED UNDERDRAIN
c	= PROPOSED CONDUIT
	= PROPOSED BUILDING
777777777777777777777777777777777777777	= PROPOSED BUILDING
	- PROPOSED CONIC SIDEWALK (DRIVEWAY
	= PROPOSED CONC. SIDEWALK/DRIVEWAY
	= PROPOSED INFILTRATION TRENCH
	= PROPOSED INFILTRATION FILTER MEDIA
$\times \times $	= PROPOSED GRIND
	= PROPOSED DEMOLITION AREA
	= PROPOSED ASPHALT APRON
	= PROPOSED RIGHT OF WAY TAKE
	- DRODOCED CTORM DRAIN INLET
	= PROPOSED STORM DRAIN INLET = PROPOSED COUPLER
<del></del>	= PROPOSED WATER METER
	= PROPOSED WATER METER = PROPOSED WATER VALVE
M _D	= PROPOSED WATER VALVE = PROPOSED HYDRANT
I	
	= PROPOSED SANITARY SEWER MANHOLE
9	= PROPOSED SANITARY SEWER MANHOLE
•	= PROPOSED STORM DRAIN CATCH BASIN TYPE I
•	= PROPOSED STORM DRAIN CATCH BASIN TYPE II
<b>*</b>	= PROPOSED UTILITY POLE
<b>*</b>	= PROPOSED MONITORING WELL
•	= PROP STORM CLEANOUT
•	= PROPOSED SANITARY SEWER CLEAN OUT
<u> </u>	= PROPOSED SIGN
ightharpoonup	= FLOW ARROW
$\odot$	= PROPOSED TREE

#### **ABBREVIATIONS**

AC	= ASBESTOS CEMENT	FL	= FLOW LINE	N	= NORTH	SCH	= SCHEDULE
AC	= ASBESTOS CEMENT	FL	= FLOW LINE	N	= NORTH	SUR	= SCHEDULE
ASPH	= ASPHALT	FF	= FINISHED FLOOR	OC	= ON CENTER	S	= SOUTH
BLDG	= BUILDING	FG	= FINISHED GRADE	PVMNT	= PAVEMENT	STD	= STANDARD
CATV	= CABLE TELEVISION	FT/FT	= FEET PER FOOT	PED	= PEDESTAL	SP	= STANDARD PLAN
CL	= CLASS, CENTERLINE	F&C	= FRAME AND COVER	PCC	= POINT OF COMPOUND CURVATURE	STA	= STATION
COMP	= COMPACTED	F&G	= FRAME AND GRATE	PC	= POINT OF CURVATURE	SDCB	= STORM DRAIN CATCH BASIN
CONC	= CONCRETE	IW	= INJECTION WELL	PRC	= POINT OF REVERSE CURVE	SDMH	= STORM DRAIN MANHOLE
C & G	= CURB & GUTTER	IE, INV	= INVERT ELEVATION	PT	= POINT OF TANGENCY	TEL	= TELEPHONE
CPDP	= CORRUGATED POLYETHYLENE DRAIN PIPE	L	= LENGTH	POC	= POINT ON CURVE	TL	= TRAFFIC LOOP
ø	= DIAMETER	LF	= LINEAR FEET	PVC	= POLYVINYL CHLORIDE	TYP	= TYPICAL
DI	= DUCTILE IRON	LOC	= LOCATION	PCC	= PORTLAND CEMENT CONCRETE	UP	= UTILITY POLE
Ε	= EAST	MAX	= MAXIMUM	POSS	= POSSIBLE	VLT	= VAULT
EOP, EP	= EDGE OF PAVEMENT	MPOC	= MID-POINT ON CURVE	PROP	= PROPOSED	WSDOT	= WASHINGTON STATE
EX, EXIST	= EXISTING	MIN	= MINIMUM	R	= RADIUS		DEPARTMENT OF TRANSPORTATION
IR	= EXISTING IRRIGATION	MOD	= MODIFIED	ROW	= RIGHT OF WAY	w	= WEST
SN	= EXISTING SIGN	MW	= MONITORING WELL	R&C	= RING AND COVER	WM	= WATER METER
FT	= FEET	MON	= MONUMENT	SSMH	= SANITARY SEWER MANHOLE		

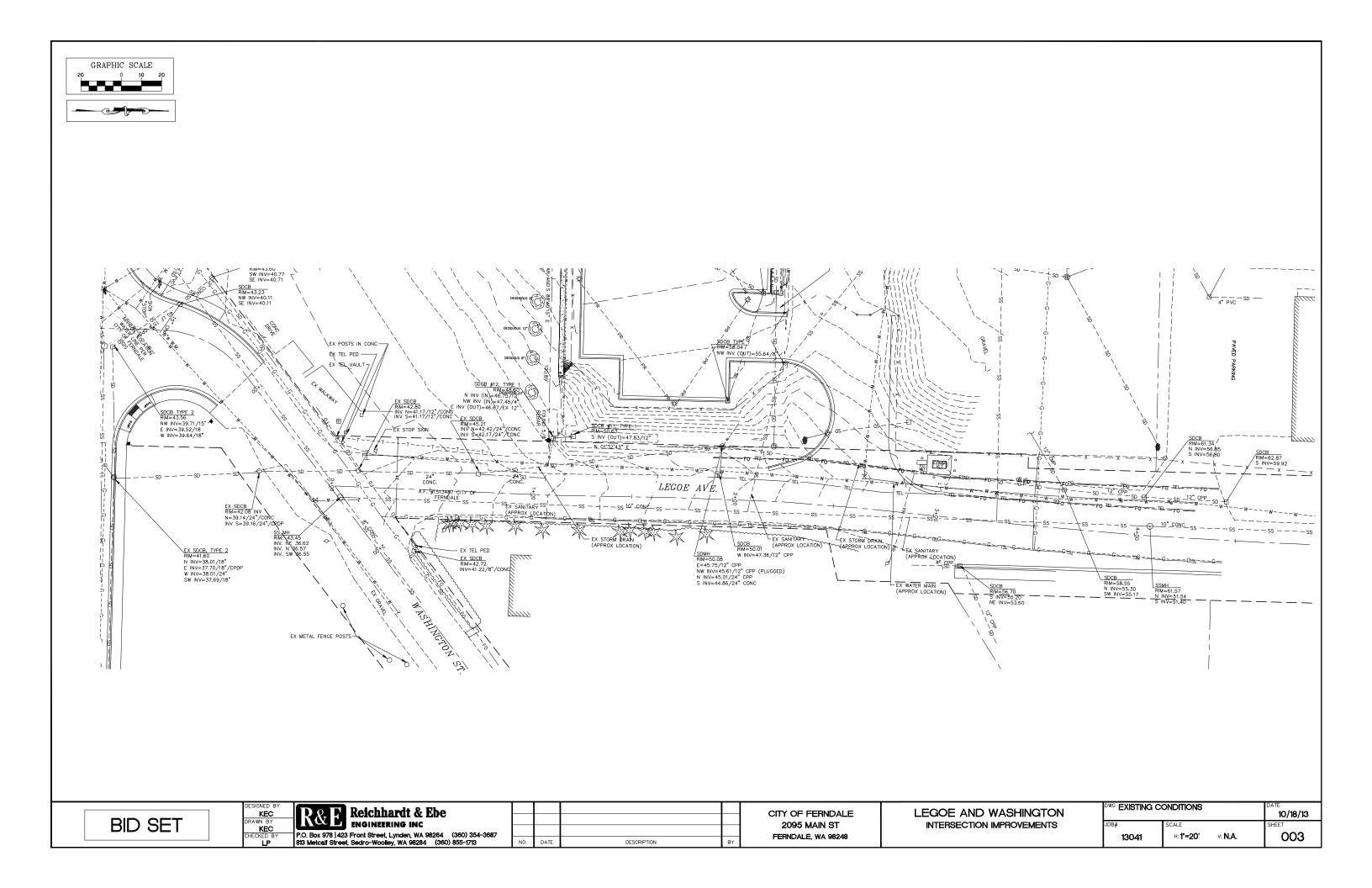


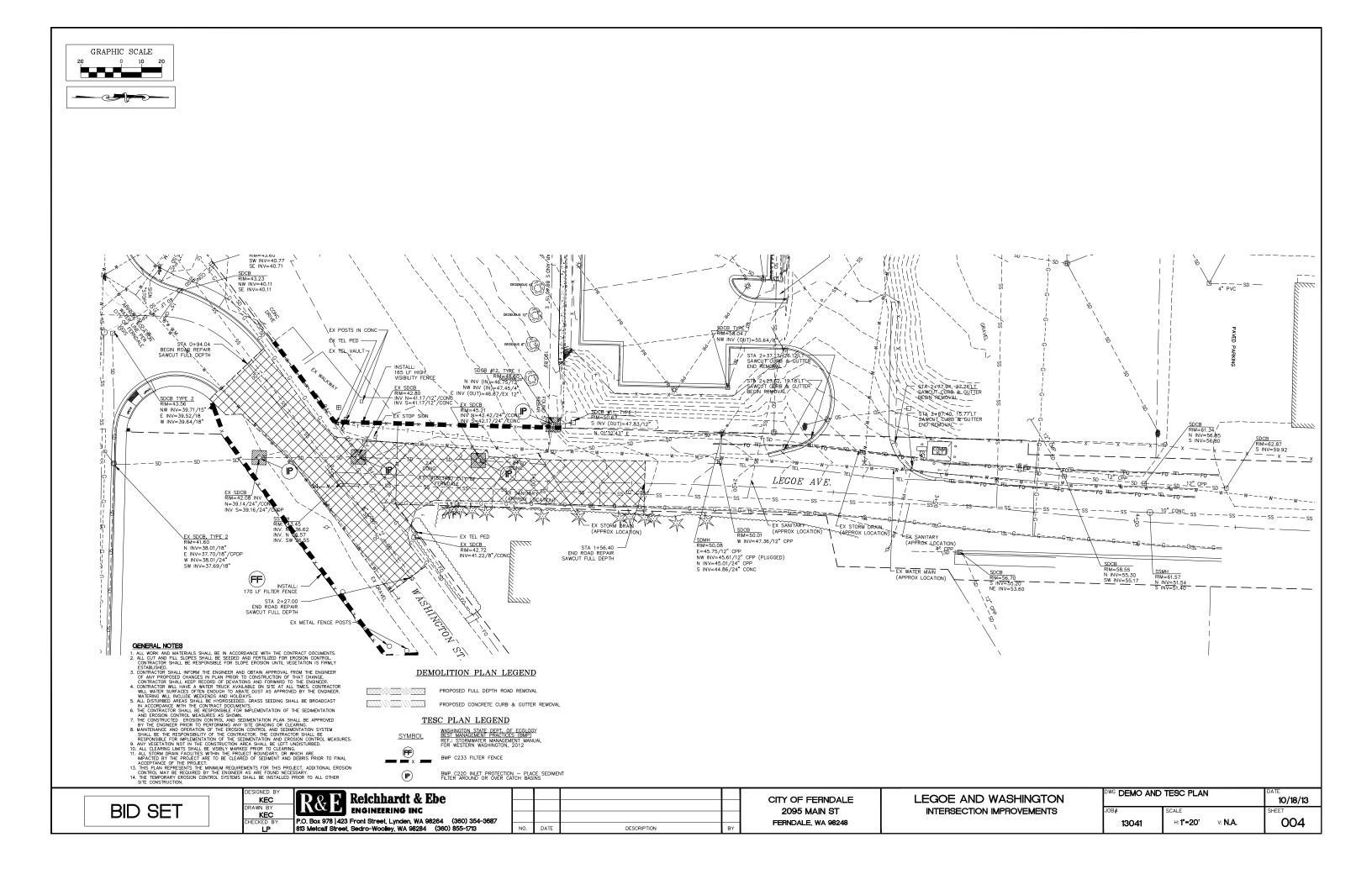


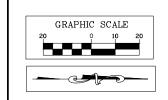


CITY OF FERNDALE 2095 MAIN ST FERNDALE, WA 98248 LEGOE AND WASHINGTON INTERSECTION IMPROVEMENTS

WG LEGEND AN	DATE 10/11/13		
OB#	SCALE		SHEET
13041	H: <b>N/A</b>	∨: <b>N/A</b>	002







**BID SET** 

KEC ECKED B

WASHINGTON C1, NORTH CURB	LEGOE C2, SOUTH CURB	LEGOE C3, NORTH CURB		
R=15' L=11.99' △=45*48'07'	R=25' L=10.00' Δ=22'55'19"	R=25' L=15.23' ∆=34*47'11"		
STA/OFFSET	STA/OFFSET	STA/OFFSET		
PC=1+45.12, 11.11'L	PC=2+29.06, 20.64'L	PC=2+77.52, 26.99'L		
PT=1+55.86, 15.69 L	PT=2+37.52, 25.82'L	PT=2+87.40, 15.77'L		

^{(G} SITE AND GRADING PLAN

13041

H: 1"=20' V: N.A.

10/18/13

005

NOTE: (TYPICAL) - SEE DETAILS

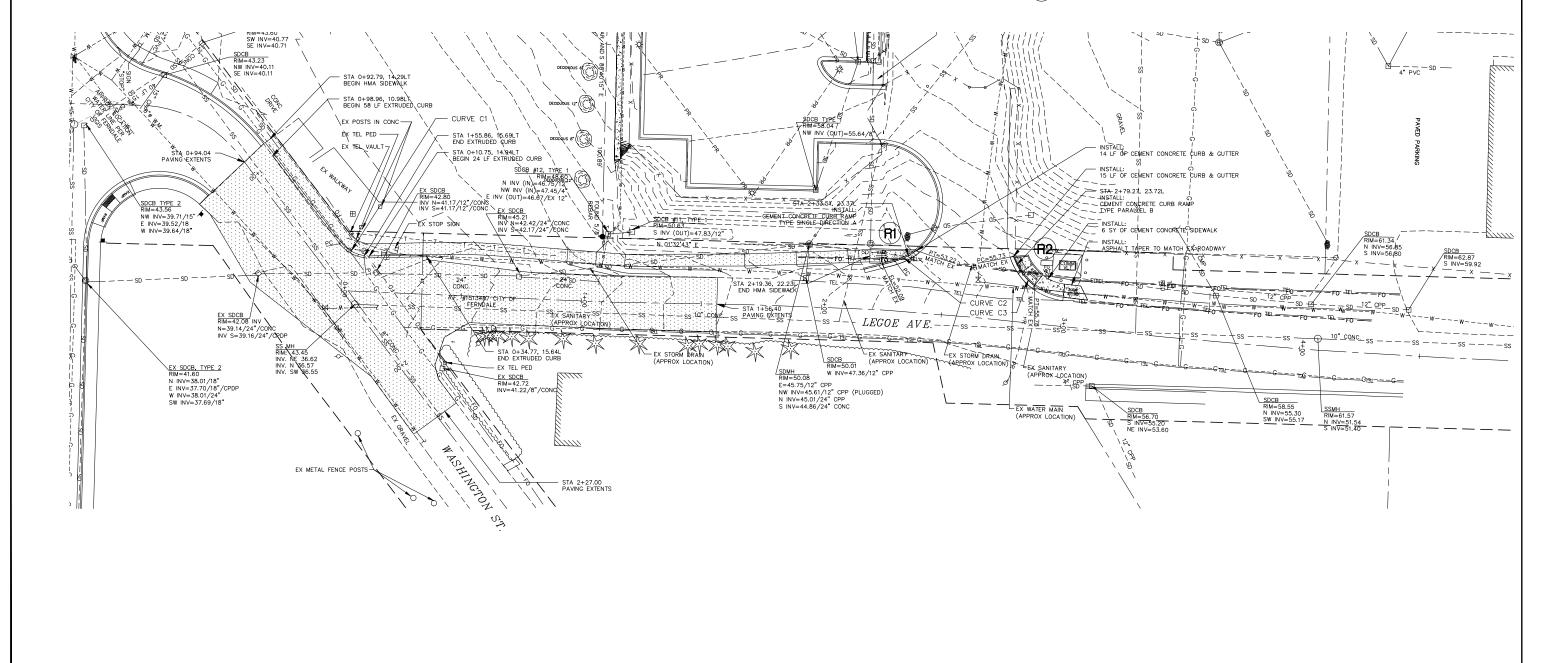
LEGOE AND WASHINGTON

INTERSECTION IMPROVEMENTS

CITY OF FERNDALE

2095 MAIN ST

FERNDALE, WA 98248

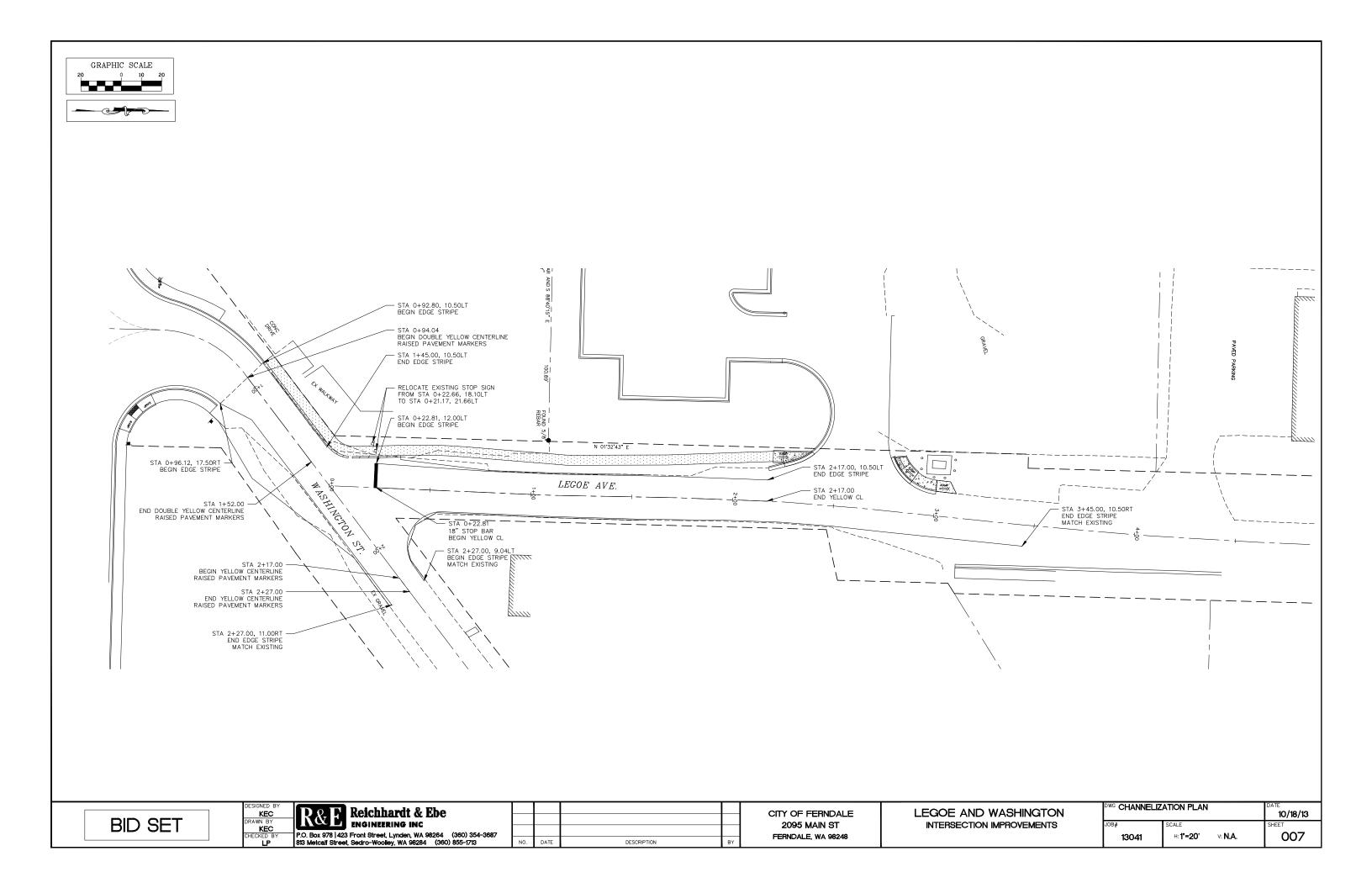


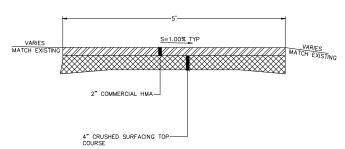
DESCRIPTION

Reichhardt & Ebe

P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

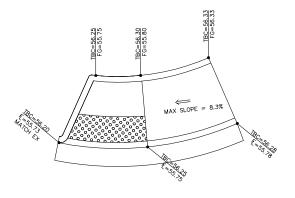
ENGINEERING INC

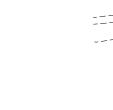


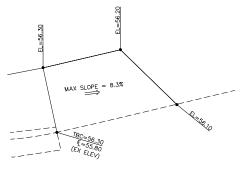




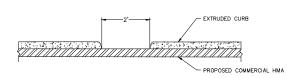
MAX SLOPE = 8.3%



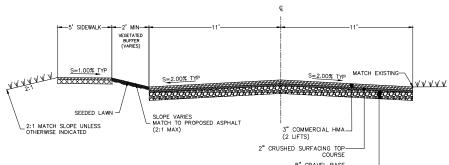




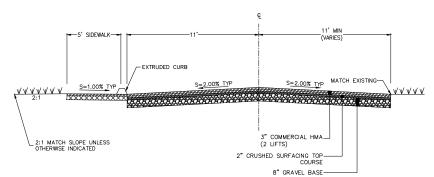
## SIDEWALK SECTION



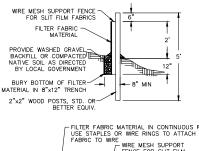
#### EXTRUDED CURB BREAK

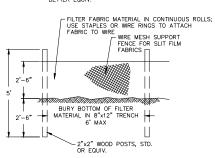


### TYPICAL CROSS SECTION: LEGOE



### TYPICAL CROSS SECTION: WASHINGTON

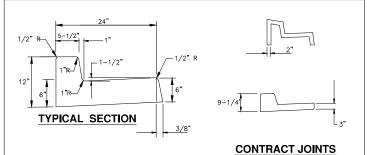


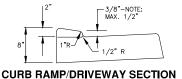


### SILT FENCE DETAIL

### SIDEWALK RAMP TYPE PARALLEL B

### HMA ASPHALT TAPER





### MATCH ROADWAY (±1-4%) **DUMP CURB**

CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10°C/C. JOINTS MUST COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MIN. 3/16" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.

 $2^{\prime\prime}$  WEEP HOLES TO BE PLACED ON EACH SIDE OF DRIVEWAY SECTION & A MAX.  $60^{\prime}$  C/C IN CUT SECTIONS WHERE SIDEWALK DRAIN NOT REQUIRED BY PUBLIC WORKS DIRECTOR.

3/4" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS, & COLD JOINTS OR A MAX. OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE 1" BELOW THE

CONCRETE SHALL BE CEMENT CONCRETE "CLASS 3000"

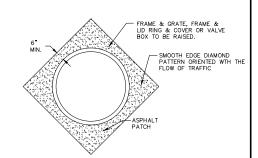
FINISHED WORK SHALL NOT VARY MORE THAN 1/8" IN GRADE AND 1/4" IN ALIGNMENT WHEN CHECKED WITH A 10" STRAIGHT EDGE.

EXPOSED SURFACES SHALL BE BRUSHED WITH A FIBER HAIR BRUSH

WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE

FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

NOT TO SCALE APPROVED DRAWING CITY OF FERNDALE CURB AND GUTTER R-9Public Works Director



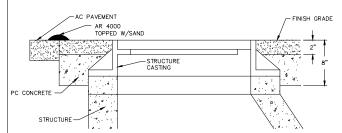
- 1. CUT THE ASPHALT IN A DIAMOND AROUND THE STRUCTURE CASTING TO BE
- ADJUSTED.

  REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
- MIN. BELOW HINSH GRADE.

  3. PLACE THE CASTING AT FINISH GRADE.

  4. PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.

  5. APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, AND PC CONCRETE.
- PLACE AND COMPACT 2 INCHES OF COMMERCIAL HMA TO FINISH GRADE.
   SEAL PAVEMENT JOINTS WITH HOT AR4000 AND TOP WITH SAND.



#### ADJUSTING CASTINGS TO FINISHED GRADE

**BID SET** 

R&E Reichhardt & Ebe

ENGINEERING INC P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

DESCRIPTION

CITY OF FERNDALE 2095 MAIN ST FERNDALE, WA 98248

LEGOE AND WASHINGTON INTERSECTION IMPROVEMENTS

NG DETAILS			DATE		
22171120			10/18/13		
DB#	SCALE		SHEET		
13041	H: <b>1"=4</b> '	v: <b>N.A.</b>	008		