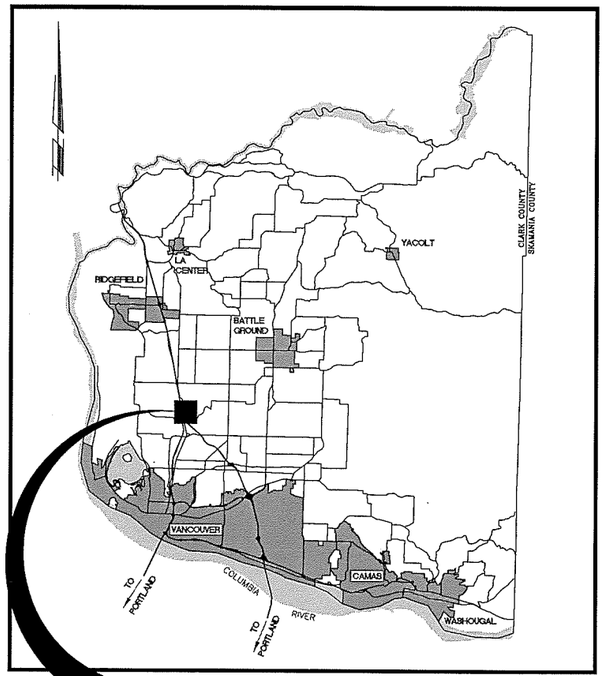
CAPITAL IMPROVEMENTS PROGRAM
COUNTY ROAD PROJECT # 330322

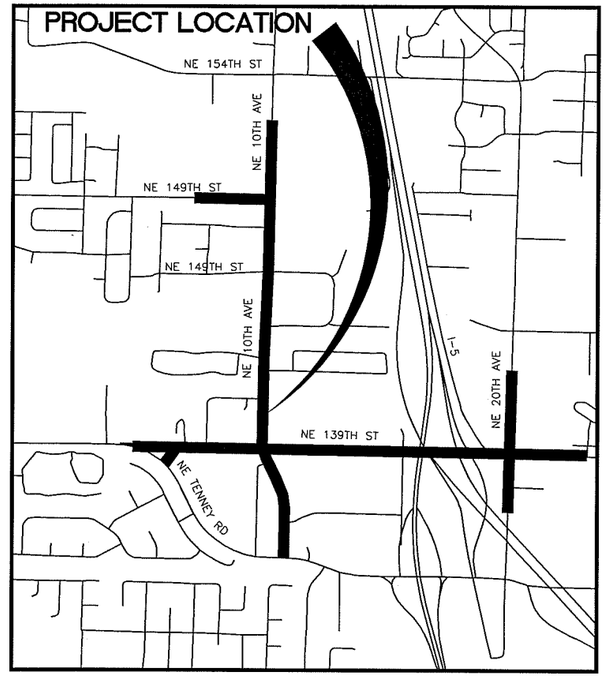
SALMON CREEK INTERCHANGE PROJECT

NE 139TH ST, NE 10TH AVE, AND NE 20TH AVE

PLANS FOR THE CONSTRUCTION OF
ROADWAYS, SIGNALIZATION AND STORM DRAINAGE



PROJECT LOCATION



INDEX OF SHEETS

1 COV COVER SHEET
2 SQ1 SUMMARY OF QUANTITIES AND LEGEND
3 LAY1 PROJECT LAYOUT
4 TS1 TYPICAL SECTIONS
5 TS2 TYPICAL SECTIONS
6 HV1 HORIZONTAL & VERTICAL CONTROL
7 ECLAY EROSION CONTROL PLAN LAYOUT
8 EC1 EROSION CONTROL PLAN (NE 139TH ST)
9 EC2 EROSION CONTROL PLAN (NE 139TH ST)
10 EC3 EROSION CONTROL PLAN (NE 139TH ST)
11 EC4 EROSION CONTROL PLAN (NE 139TH ST)
12 EC5 EROSION CONTROL PLAN (NE 139TH ST)
13 EC6 EROSION CONTROL PLAN (NE 139TH ST)
14 EC7 EROSION CONTROL PLAN (NE TENNEY RD)
15 EC8 EROSION CONTROL PLAN (NE 10TH AVE)
16 EC9 EROSION CONTROL PLAN (NE 10TH AVE)
17 EC10 EROSION CONTROL PLAN (NE 10TH AVE)
18 EC11 EROSION CONTROL PLAN (NE 10TH AVE)
19 EC12 EROSION CONTROL PLAN (NE 10TH AVE)
20 EC13 EROSION CONTROL PLAN (NE 20TH AVE)
21 EC14 EROSION CONTROL PLAN (NE 20TH AVE)
22 EC15 EROSION CONTROL DETAILS
23 RD1 ROADWAY DETAILS
24 RD2 ROADWAY DETAILS
25 DD1 DRAINAGE DETAILS
26 DD2 DRAINAGE DETAILS
27 SWF1 CONCEPTUAL STORMATER FACILITY LOCATIONS
28 PPLAY PLAN & PROFILE LAYOUT
29 PP1 PLAN & PROFILE – 139TH (STA 119+00 TO 124+00)
30 PP2 PLAN & PROFILE – 139TH (STA 124+00 TO 129+00)
31 PP3 PLAN & PROFILE – 139TH (STA 129+00 TO 134+00)
32 PP4 PLAN & PROFILE – 139TH (STA 134+00 TO 139+00)
33 PP5 PLAN & PROFILE – 139TH (STA 139+00 TO 144+00)
34 PP6 PLAN & PROFILE – 139TH (STA 144+00 TO 149+00)
35 PP7 PLAN & PROFILE – 139TH (STA 149+00 TO 154+00)
36 PP8 PLAN & PROFILE – 139TH (STA 154+00 TO 149+00)
37 PP9 PLAN & PROFILE – 139TH (STA 159+00 TO 164+00)
38 PP10 PLAN & PROFILE – 139TH (STA 164+00 TO 169+00)
39 PP11 PLAN & PROFILE – 139TH (STA 169+00 TO 174+00)
40 PP12 PLAN & PROFILE – 139TH (STA 174+00 TO E.O.P.)
41 PP13 PLAN & PROFILE – TENNEY (STA 3+57.69 TO E.O.P.)
42 PP14 PLAN & PROFILE – 10TH (STA 10+00 TO 15+00)
43 PP15 PLAN & PROFILE – 10TH (STA 15+00 TO 20+00)
44 PP16 PLAN & PROFILE – 10TH (STA 20+00 TO 25+00)
45 PP17 PLAN & PROFILE – 10TH (STA 25+00 TO 30+00)
46 PP18 PLAN & PROFILE – 10TH (STA 30+00 TO 35+00)
47 PP19 PLAN & PROFILE – 10TH (STA 35+00 TO 40+00)
48 PP20 PLAN & PROFILE – 10TH (STA 40+00 TO 45+00)
49 PP21 PLAN & PROFILE – 10TH (STA 45+00 TO 50+00)
50 PP22 PLAN & PROFILE – 10TH (STA 50+00 TO 55+00)
51 PP23 PLAN & PROFILE – 10TH (STA 55+00 TO E.O.P.)
52 PP24 PLAN & PROFILE – 149TH (STA 10+00 TO E.O.P.)
53 PP25 PLAN & PROFILE – 20TH (STA 21+00 TO 26+00)
54 PP26 PLAN & PROFILE – 20TH (STA 26+00 TO 31+00)
55 PP27 PLAN & PROFILE – 20TH (STA 31+00 TO E.O.P.)
56 I01 INTERSECTION PLAN
57 I02 INTERSECTION PLAN
58 I03 INTERSECTION PLAN
59 I04 INTERSECTION PLAN
60 I05 INTERSECTION PLAN
61 I06 INTERSECTION PLAN

PRELIMINARY

30% REVIEW SET
AUGUST 30, 2005

THOMAS D. GRANGE
STATE OF WASHINGTON
32068
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

COMMISSIONERS:

BETTY SUE MORRIS, Chair
MARC BOLDT, Commissioner
STEVEN J. STUART, Commissioner

proud past, promising future
CLARK COUNTY
WASHINGTON

DEPARTMENT OF
PUBLIC WORKS

ENGINEERING PROGRAM - DESIGN SECTION

Quality Assurance	Project Manager	PW Director/ County Engineer
Bruce Klug, P.E. DATE:	Carolyn Heniges, P.E. DATE:	Peter Capell, P.E. DATE:

proud past, promising future
CLARK COUNTY
WASHINGTON

Recommended for Approval

Grading _____ Erosion _____

Storm Water Plan _____

Development Review Manager _____ Date

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\COV.dwg, 8/31/2005 9:46:40 AM, kerlinr

SUMMARY OF QUANTITIES

LEGEND

- ROW LINE
- NEW EDGE OF PAVEMENT
- NEW CURB FACE LINE
- NEW CURB BACK LINE
- NEW SIDEWALK
- NEW CENTER LINE
- NEW FENCE LINE
- NEW STORM DRAIN OR CULVERT
- NEW FILL LIMITS
- NEW CUT LIMITS
- SAWCUT LINE
- PERMANENT SLOPE EASEMENT
- NEW SILT FENCE
- EXISTING EDGE OF PAVEMENT
- EXISTING CURB LINE
- EXISTING CENTER LINE
- EXISTING FENCE LINE
- EXISTING TELEPHONE LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING SANITARY SEWER LINE
- EXISTING STORM DRAINAGE
- EXISTING GAS LINE
- EXISTING CULVERT
- EXISTING DITCH CENTER LINE
- EXISTING GUARDRAIL

SYMBOLS

- NEW CATCH BASIN (CB)
- NEW MANHOLE (MH)
- NEW CURB INLET (CI)
- NEW COMBINATION CURB INLET (CCI)
- NEW MAIL BOX
- NEW HANDICAP RAMP
- CURVE TABLE
- EXISTING TRANSFORMER
- EXISTING ELEC TOWER
- EXISTING SANITARY SEWER MH
- EXISTING FIRE HYDRANT
- EXISTING CLEAN OUT
- EXISTING GAS VALVE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIGNAL POLE
- EXISTING TELEPHONE VAULT
- EXISTING TELEVISION BOX
- EXISTING WELL
- EXISTING BRUSH LINE
- EXISTING HEDGE
- EXISTING CURB INLET (CI)
- EXISTING CATCH BASIN (CB)
- EXISTING STORM MH
- EXISTING MISC MH
- EXISTING SHRUB
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING SIGN
- EXISTING DECIDUOUS TREE
- EXISTING J BOX
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE POLE
- EXISTING LIGHT
- EXISTING GUY ANCHOR
- EXISTING POWER POLE
- EXISTING MAIL BOX
- EXISTING TELEPHONE PEDESTAL
- EXISTING SPRINKLER HEAD
- TRAVERSE POINT
- TEST HOLE

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	SQ1
SHEET	2 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
21806
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

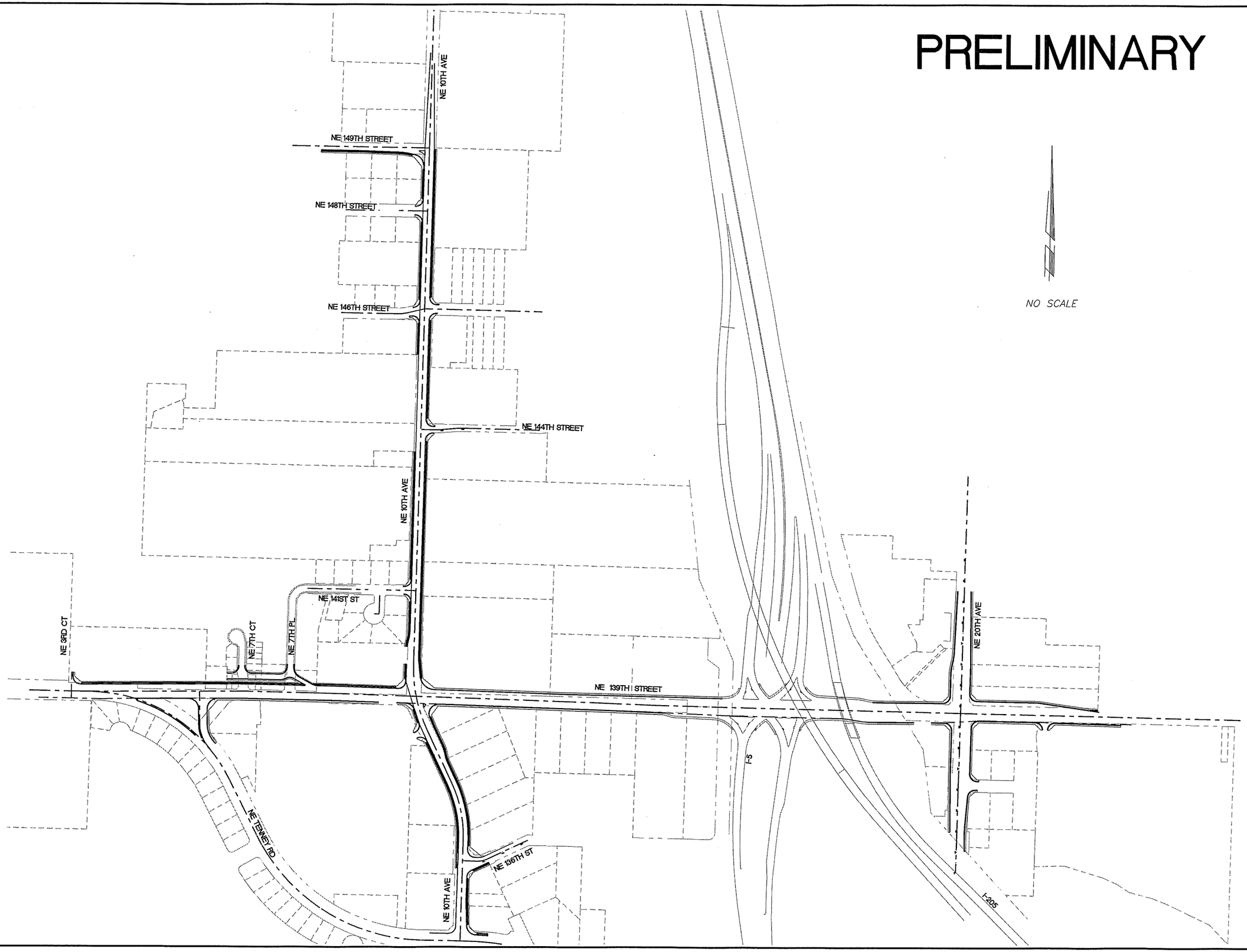
SALMON CREEK INTERCHANGE PROJECT

SUMMARY OF QUANTITIES AND LEGEND

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\SQ01.dwg, 8/30/2005 9:46:07 AM, kerlinr

PRELIMINARY



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	LAY1
SHEET	3 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

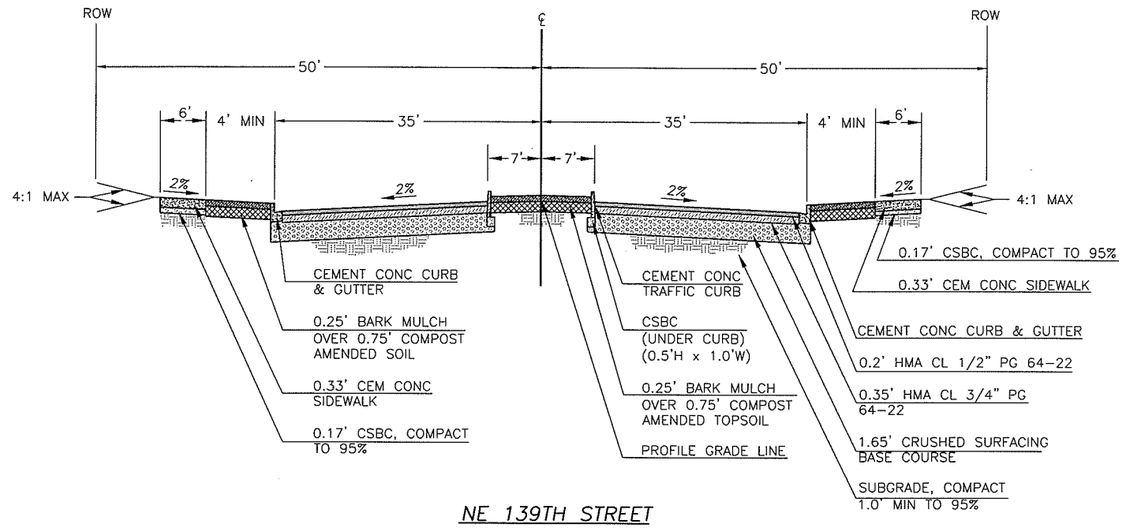
LARRY A. S. D. GRANCE
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
PROJECT LAYOUT

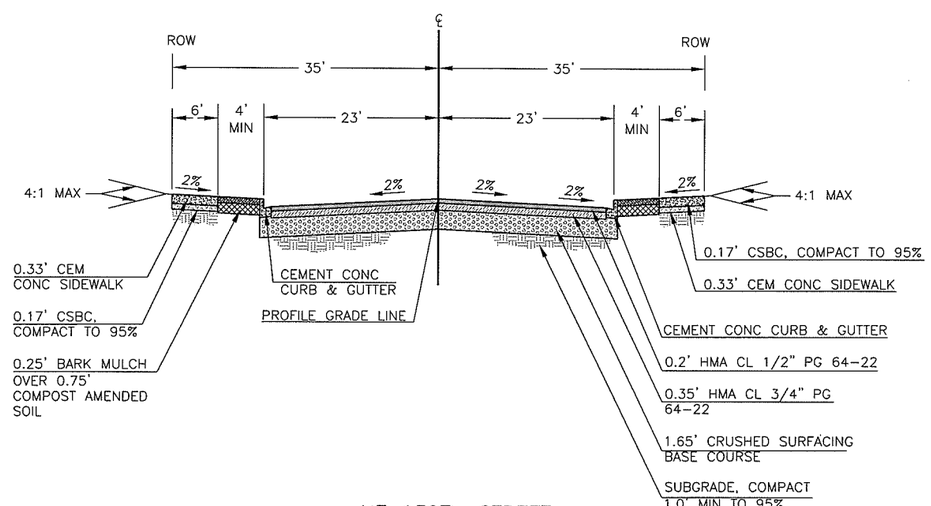
proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\LAY1.dwg, 8/31/2005 7:29:01 AM, kerlinr



NE 139TH STREET

NE TENNEY ROAD TO NE 20TH AVE



NE 139TH STREET

NE 20TH AVE TO NE 23RD AVE

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG.	TS1
SHEET	4 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON STEVEN D. GRONINGER 37348 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

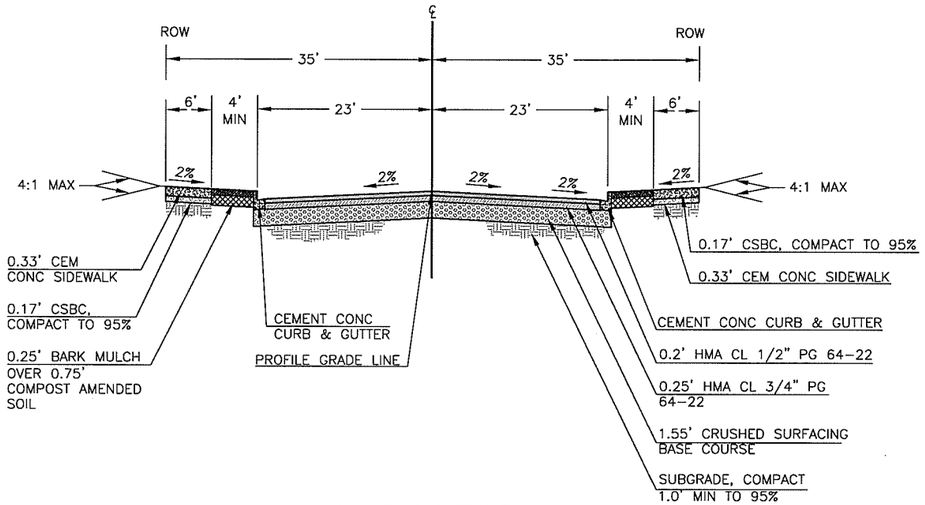
SALMON CREEK INTERCHANGE PROJECT

TYPICAL SECTIONS

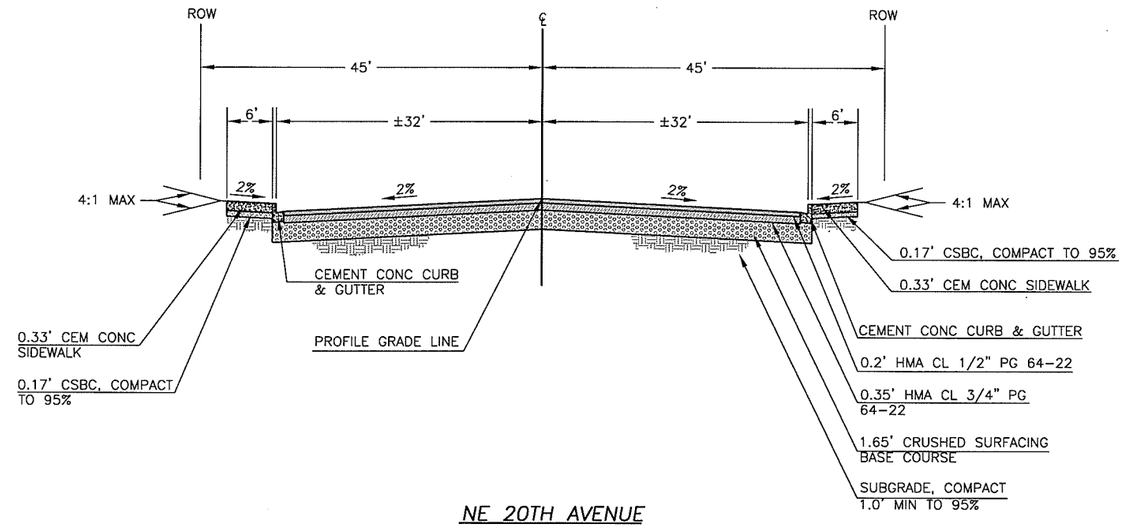
proud past, promising future

CLARK COUNTY WASHINGTON

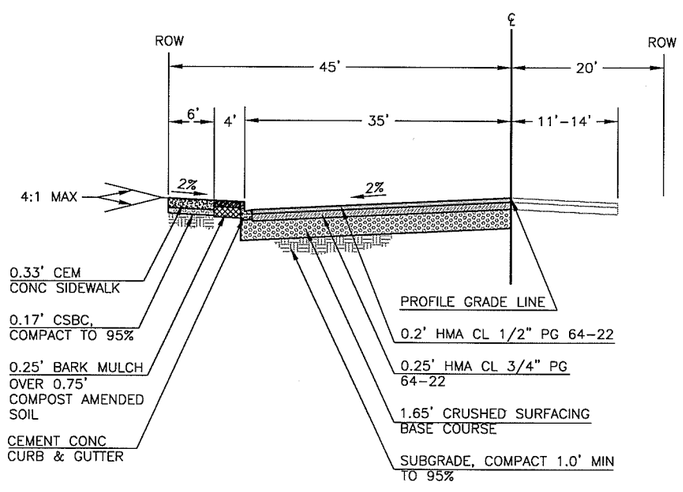
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\TS1-2.dwg, 8/31/2005 10:05:46 AM, kerlinr



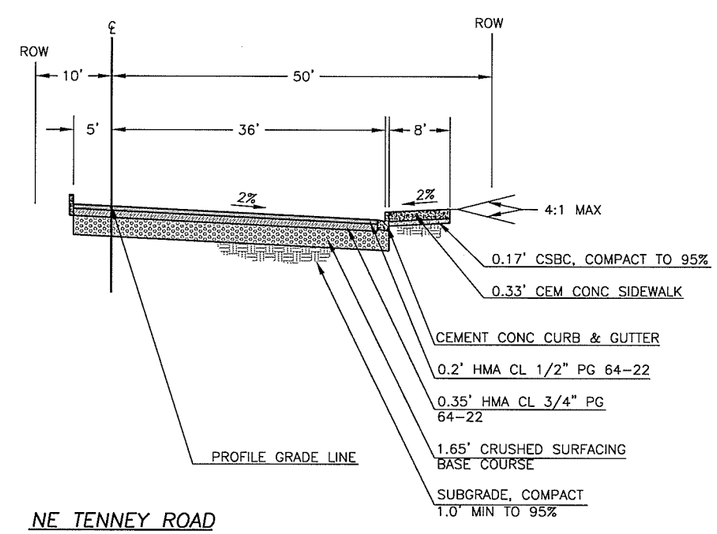
NE 10TH AVENUE



NE 20TH AVENUE



NE 149TH STREET



NE TENNEY ROAD

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	TS2
SHEET	5 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

LARRY D. GRANGE STATE OF WASHINGTON 27208 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

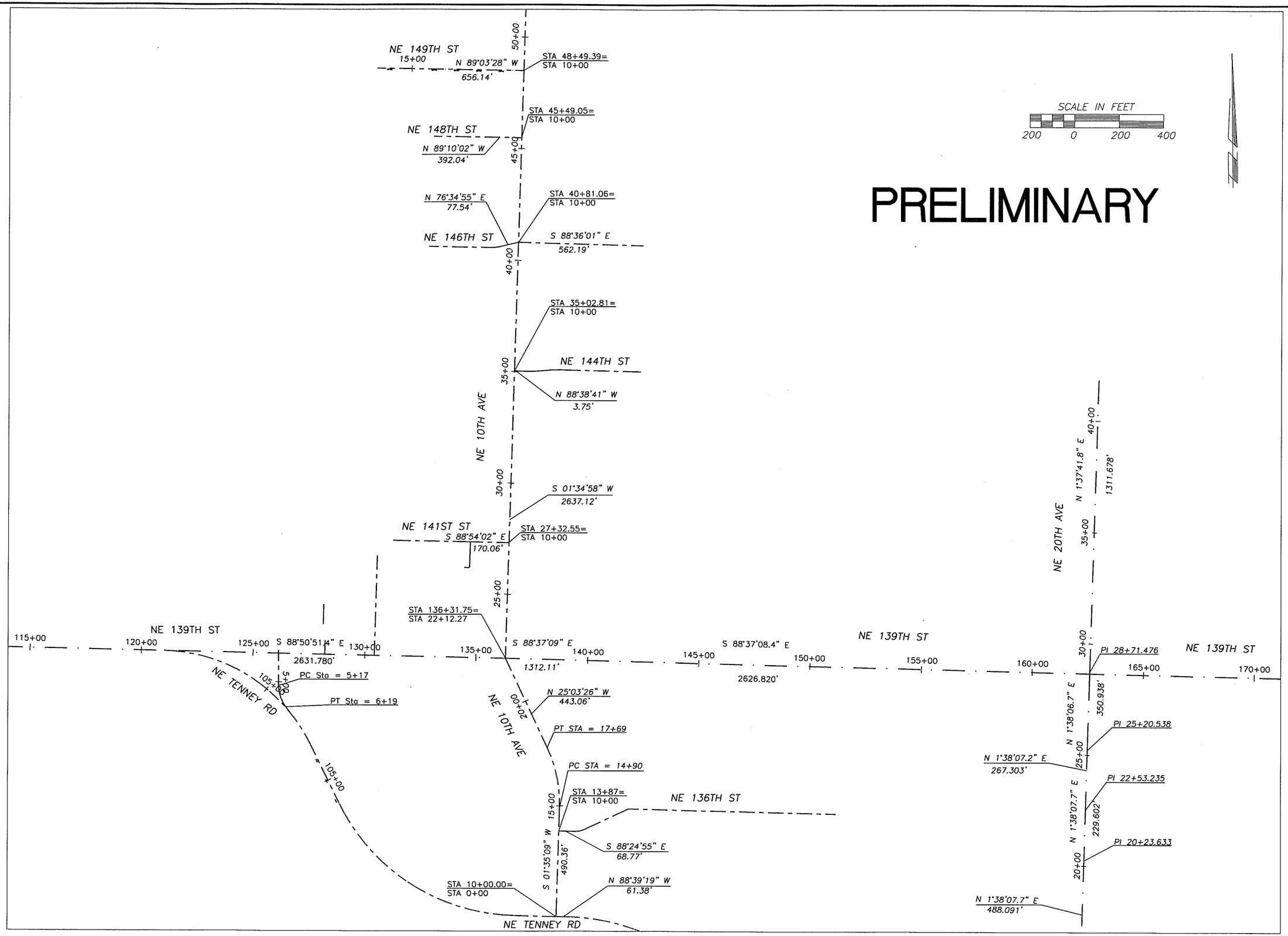
SALMON CREEK INTERCHANGE PROJECT

TYPICAL SECTIONS

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\TS1-2.dwg, 8/31/2005 7:29:13 AM, kerlinr



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	HV1
SHEET	6 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

HORIZONTAL & VERTICAL CONTROL

proud past, promising future

CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\HV1.dwg, 8/30/2005 9:48:16 AM, kerlinr

PRELIMINARY

NO SCALE

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	ECLAY
SHEET	7 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

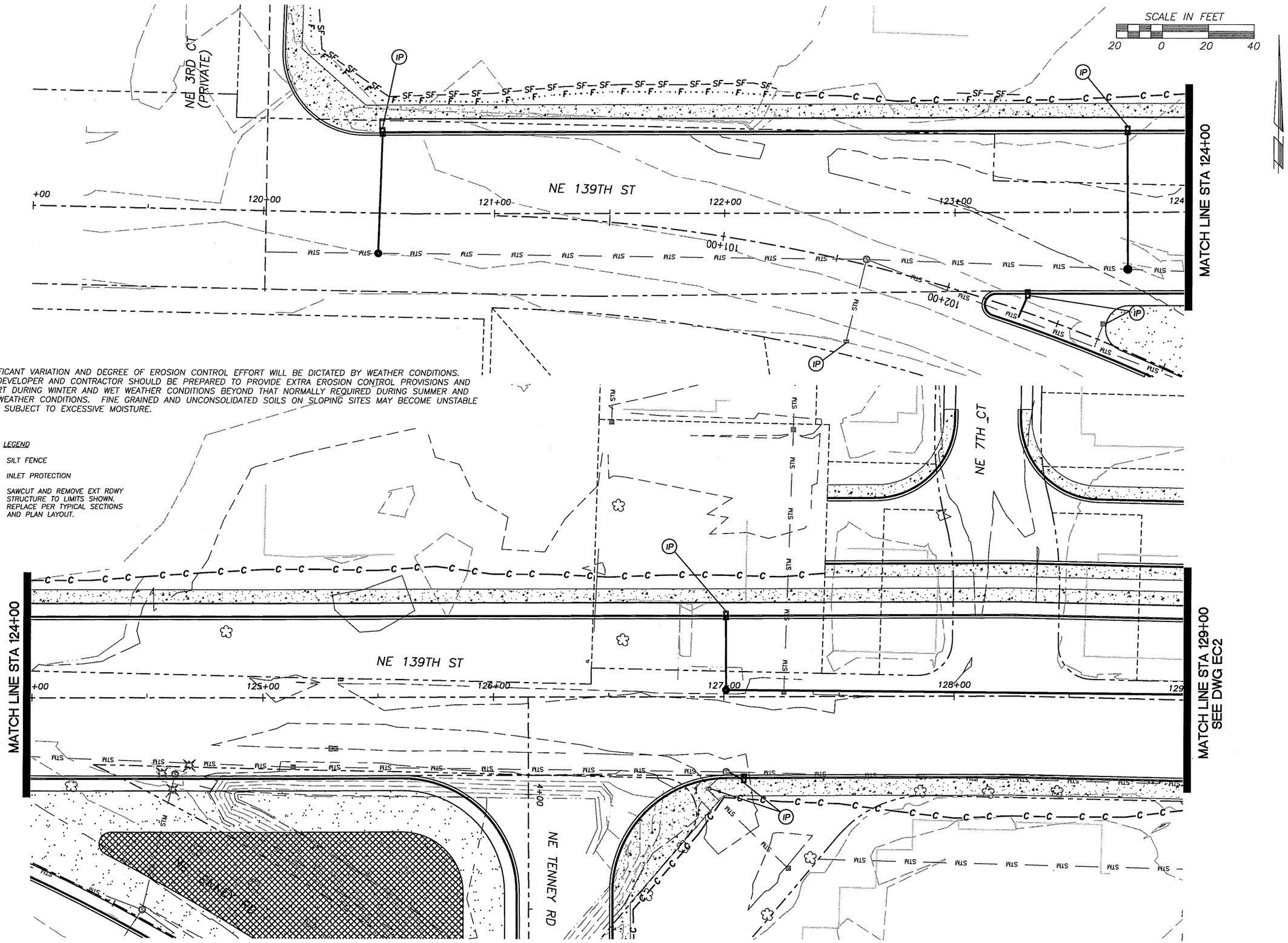
STATE OF WASHINGTON
THOMAS D. GRANGE
PROFESSIONAL ENGINEER
EXPIRES JANUARY 26, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN LAYOUT

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\ECLAY1.dwg, 8/31/2005 7:09:08 AM, kerlinr



NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

LEGEND

— SF — SILT FENCE

IP INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG.	EC1
SHEET	8 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

LYNN D. GRANGE STATE OF WASHINGTON 19885 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

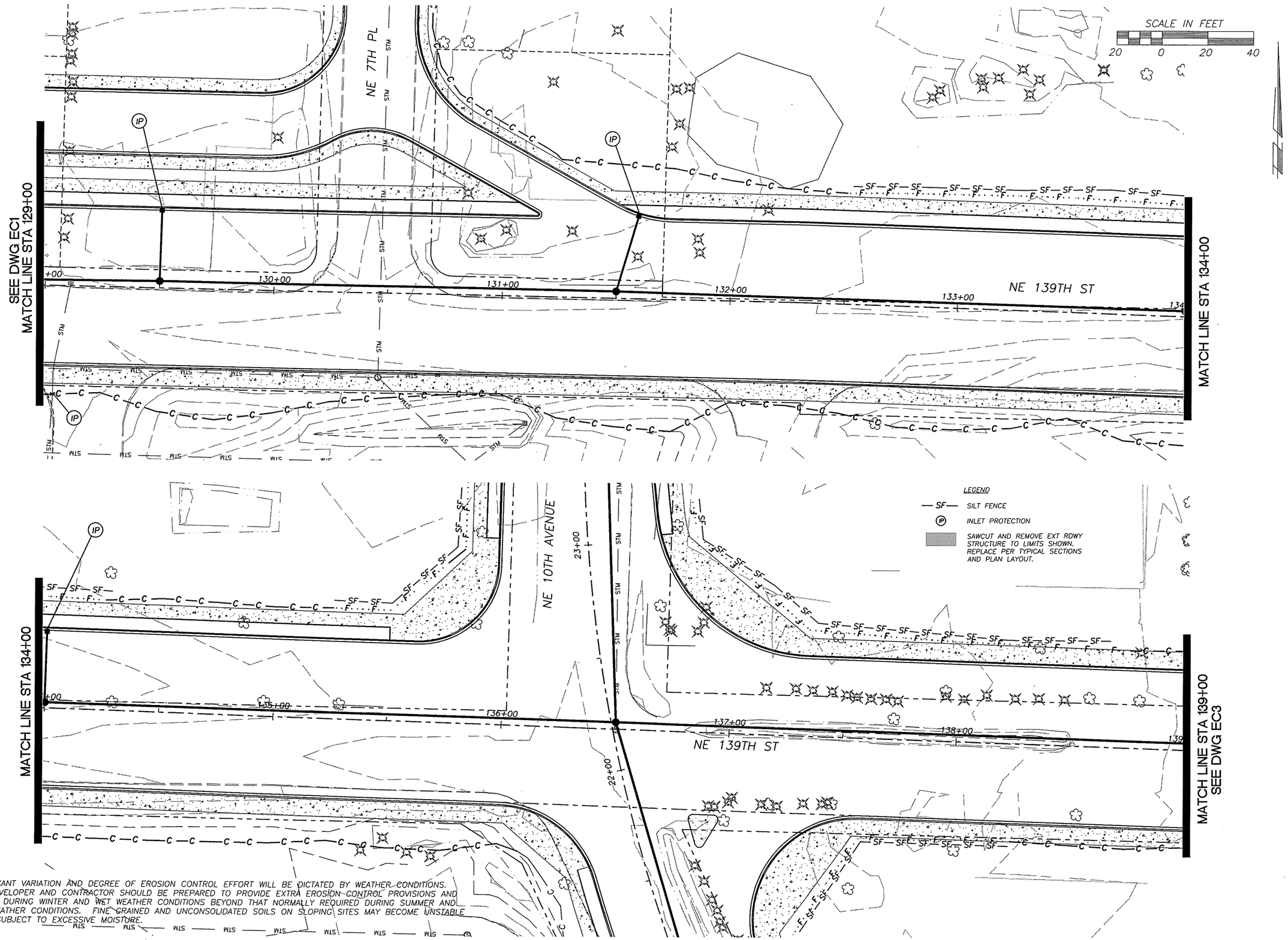
SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL PLAN (NE 139TH ST)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIPPROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 7:09:35 AM, kerlinr



NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC2
SHEET 9	OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
37966
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

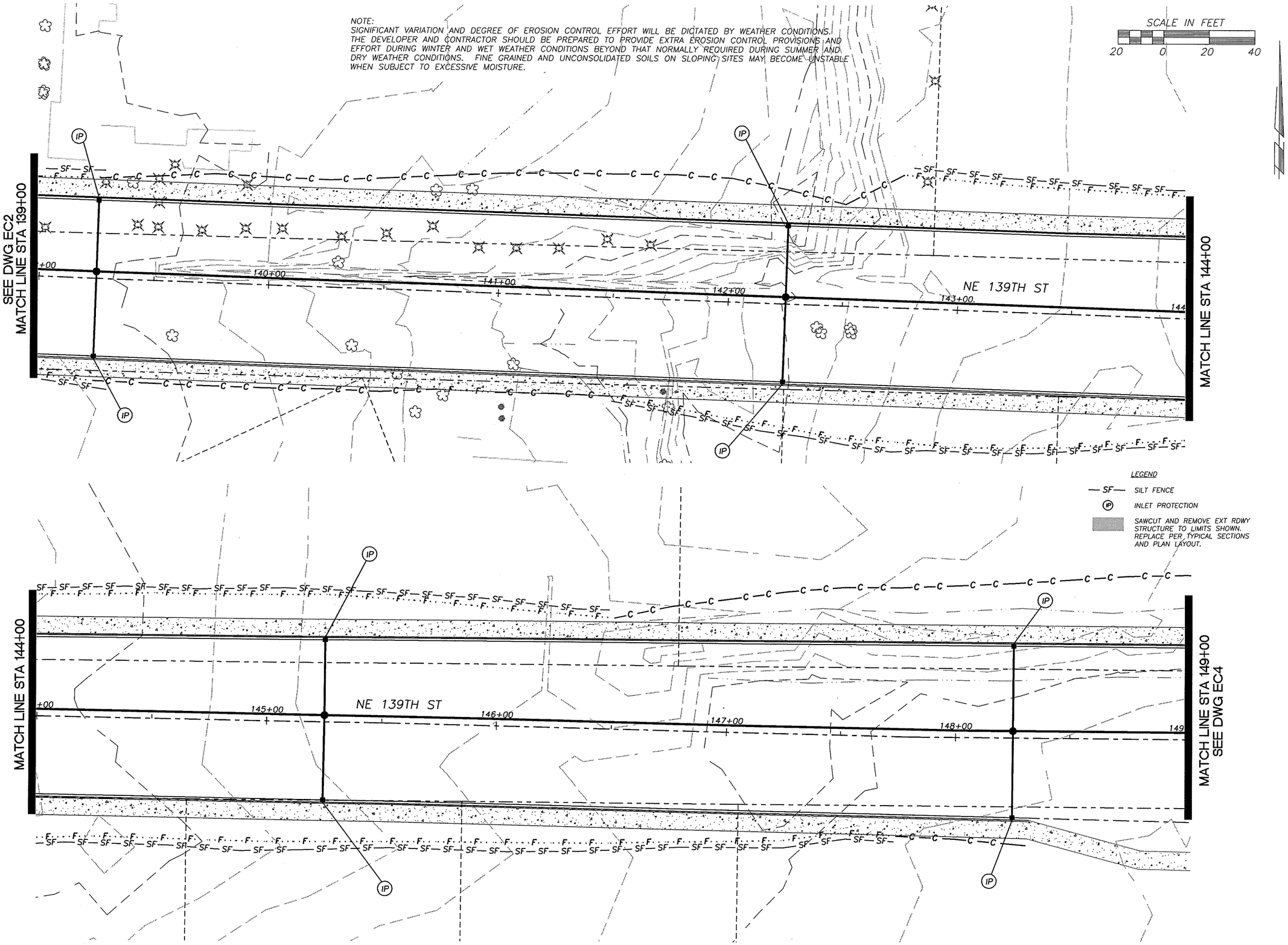
EROSION CONTROL PLAN (NE 139TH ST)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 10:39:39 AM, kerlinr

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

SCALE IN FEET
20 0 20 40



LEGEND

— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC3
SHEET	10 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 27088 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

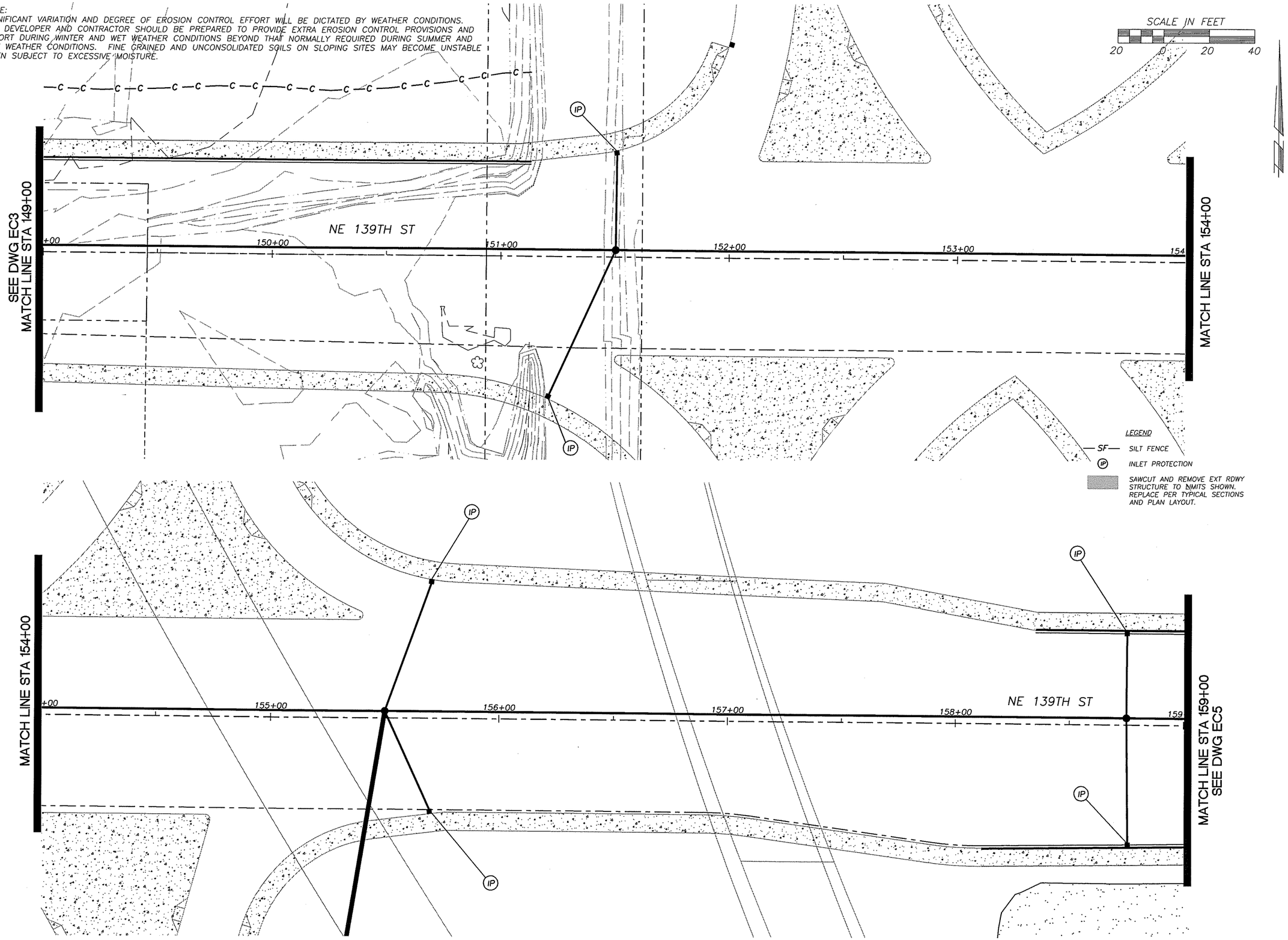
SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL PLAN (NE 139TH ST)

proud past, promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 7:10:25 AM, kerlinr

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC4
SHEET	11 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

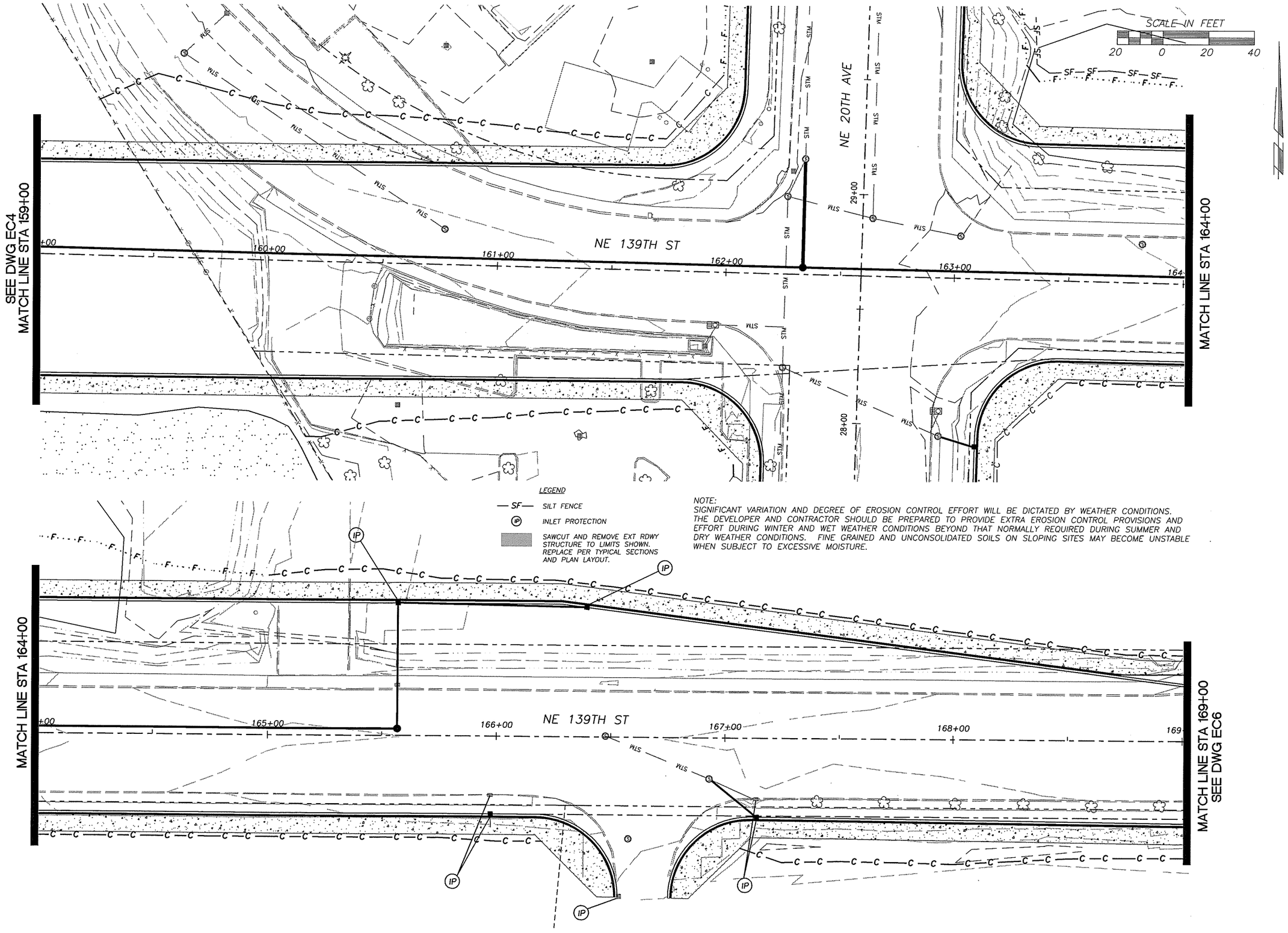
STATE OF WASHINGTON
THOMAS D. GRANGE
36866
REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 26, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN (NE 139TH ST)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 7:10:48 AM, kerlinr



NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC5
SHEET	12 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 37084 REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

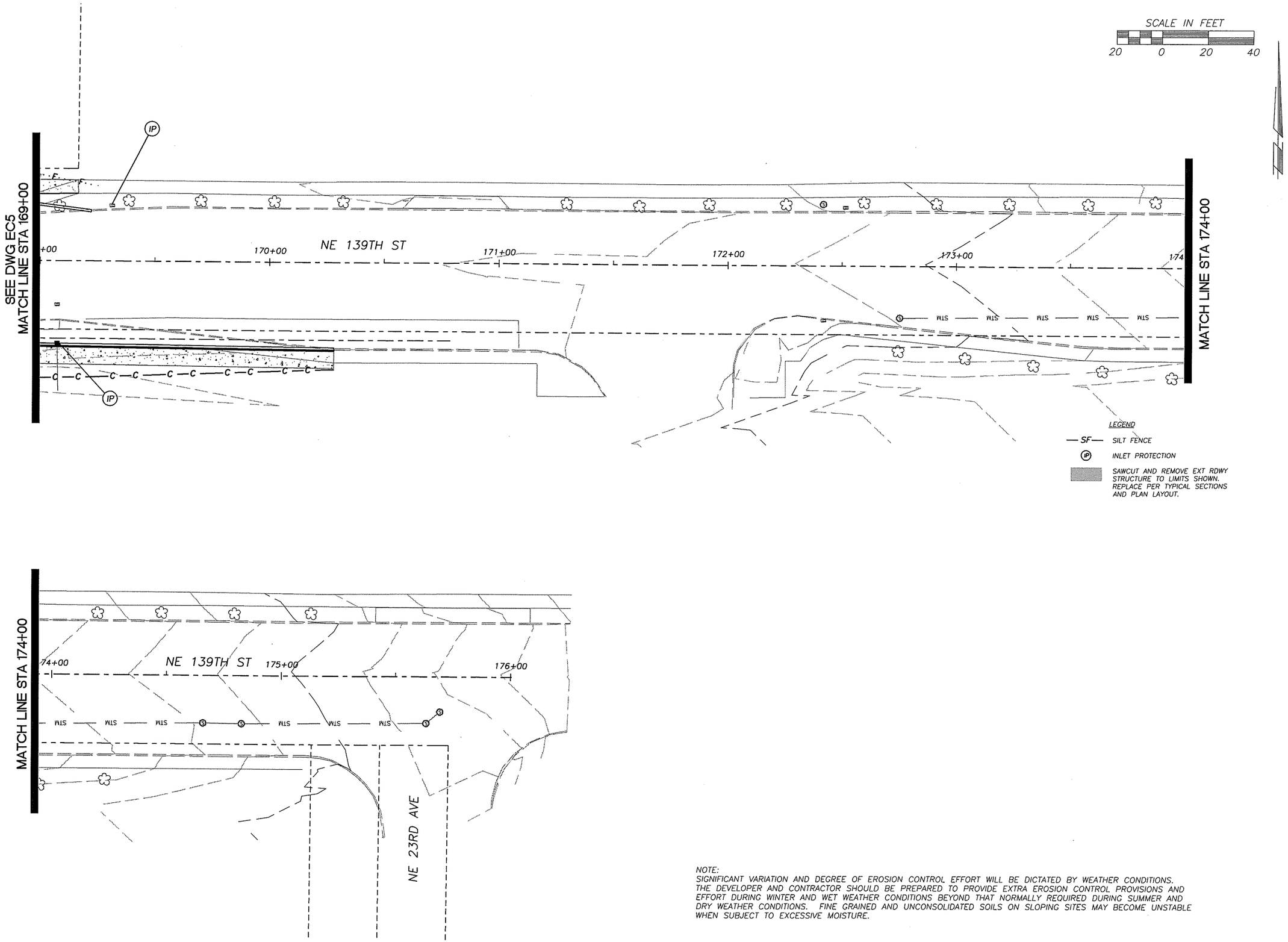
SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL PLAN (NE 139TH ST)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 9:51:28 AM, kerlinr



NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC6
SHEET	13 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON
THOMAS D. GRANGE
27008
REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN (NE 139TH ST)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 9:34:32 AM, kerlinr

LEGEND

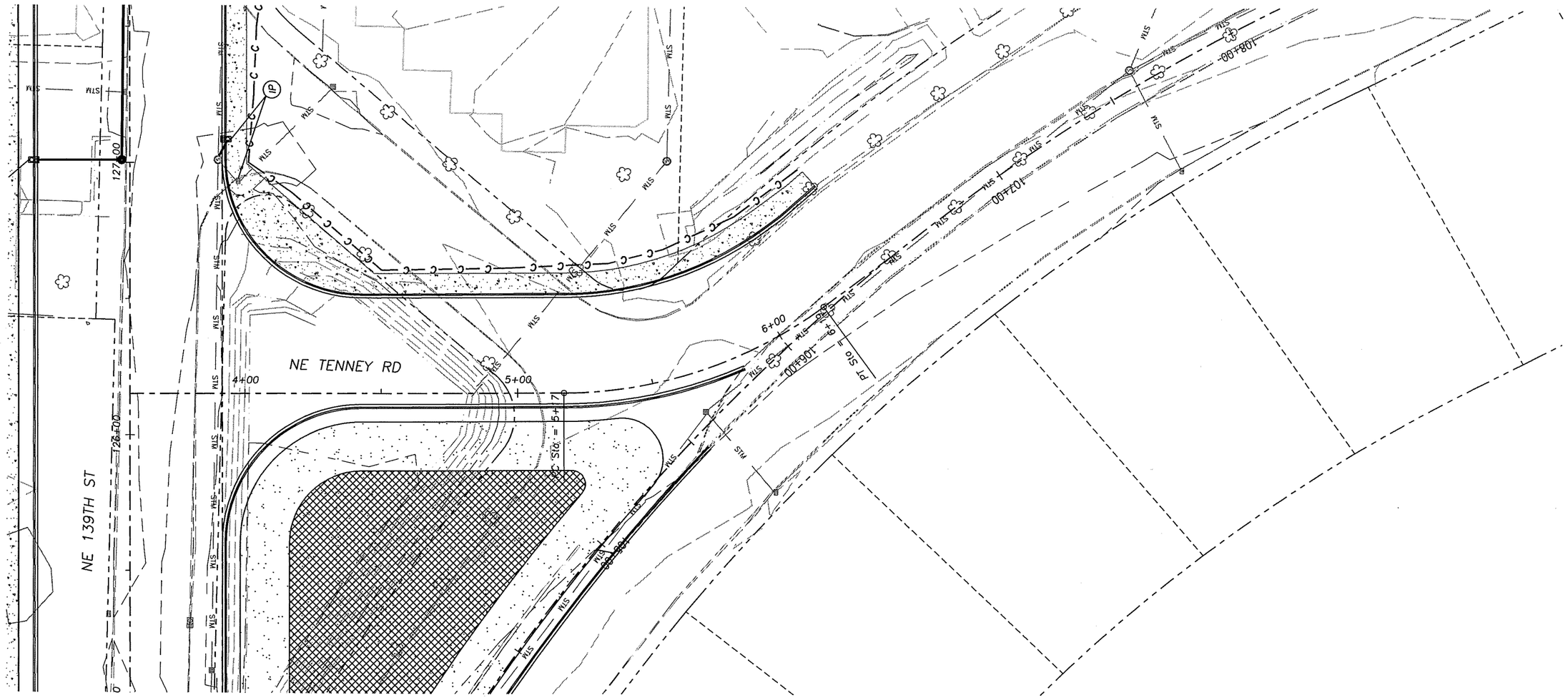
— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

SCALE IN FEET

20 0 20 40



NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC7
SHEET	14 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
32088
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN (NE TENNEY RD)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC1-7.dwg, 8/31/2005 9:40:05 AM, kerlinr

PRELIMINARY

SCALE IN FEET

20 0 20 40

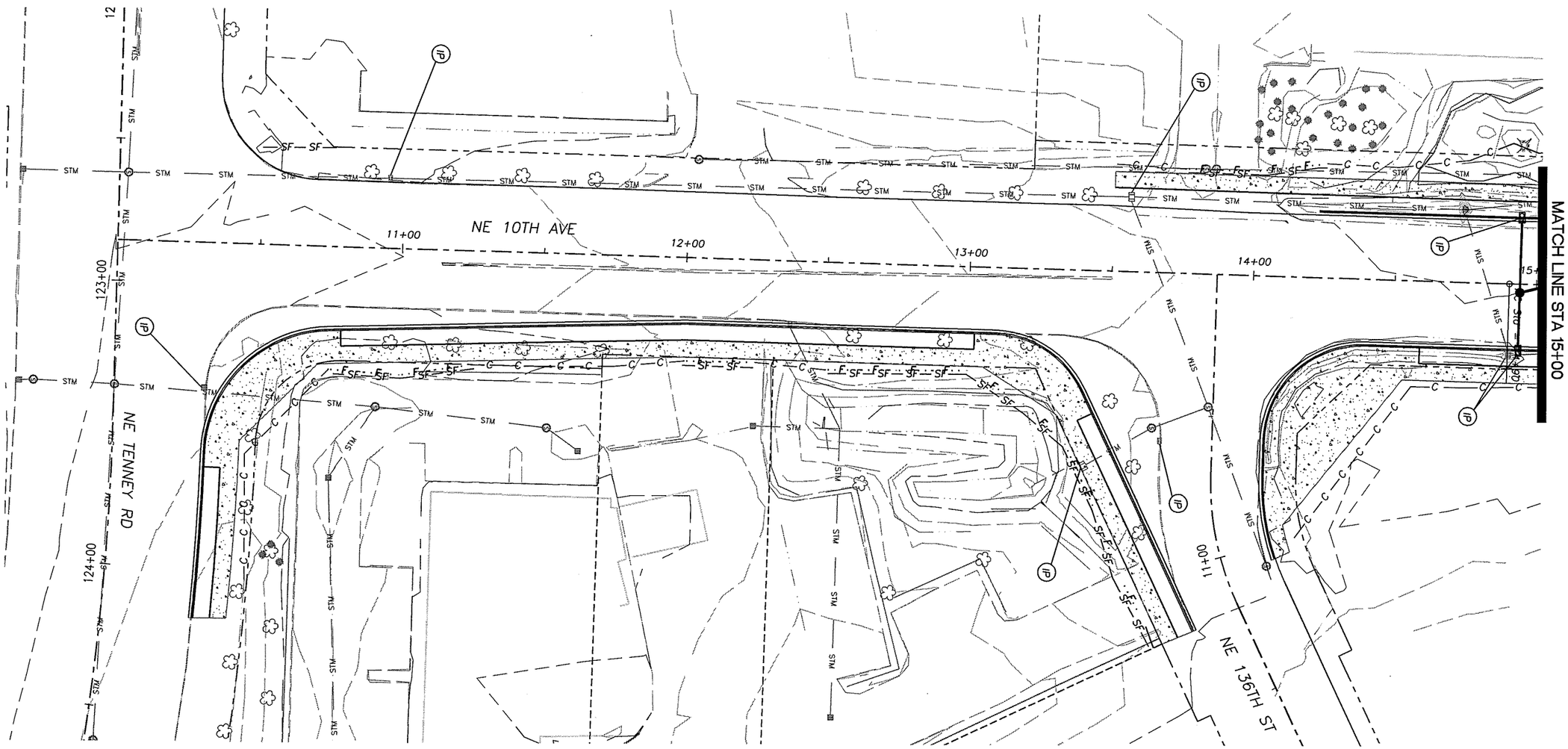
LEGEND

— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.



DESIGNED TG
DRAWN RK
CRP 330322
HOR. SEE SHEET
VERT. SEE SHEET
DATE 08/30/05
DWG: EC8
SHEET 15 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON
THOMAS D. GRANGE
REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

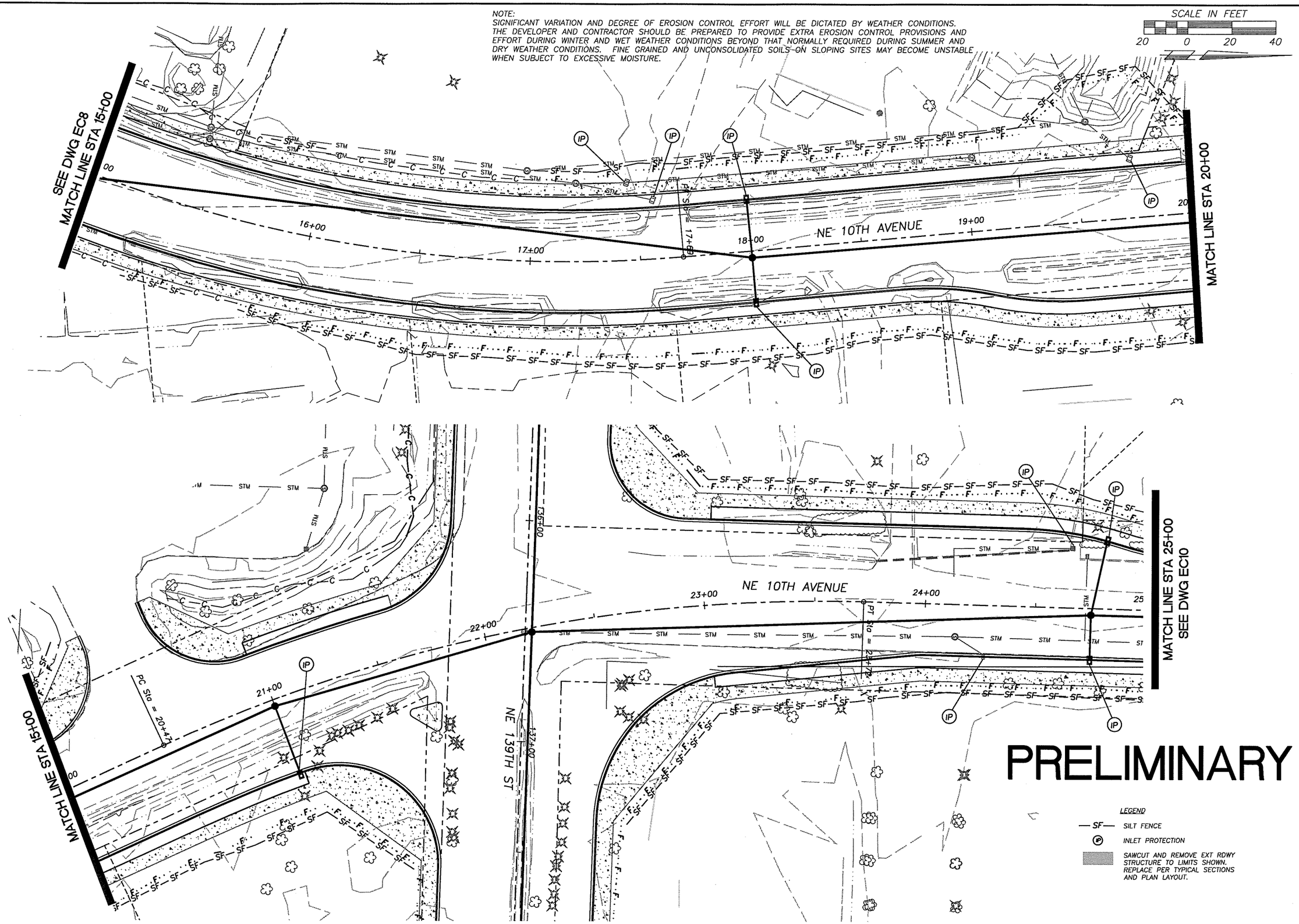
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN (NE 10TH AVE)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWG\SEC8-12.dwg, 8/31/2005 9:16:26 AM, kerlinr

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.



PRELIMINARY

LEGEND

— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC9
SHEET	16 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

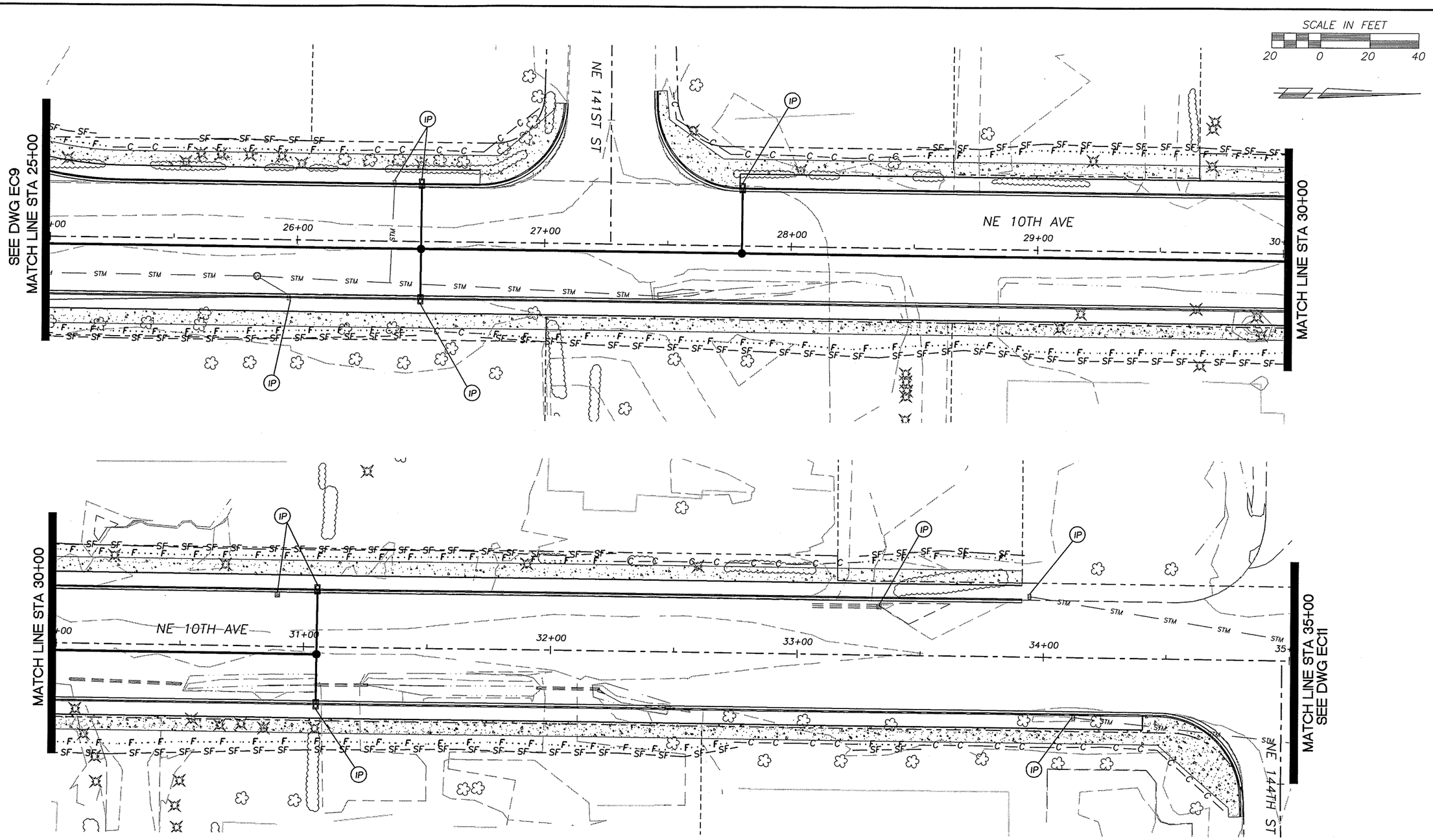
STATE OF WASHINGTON STANLEY D. GRANGE 17008 REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 26, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN (NE 10TH AVE)

proud past. promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC8-12.dwg, 8/31/2005 9:16:43 AM, kerlinr



PRELIMINARY

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

LEGEND

— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC10
SHEET	17 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

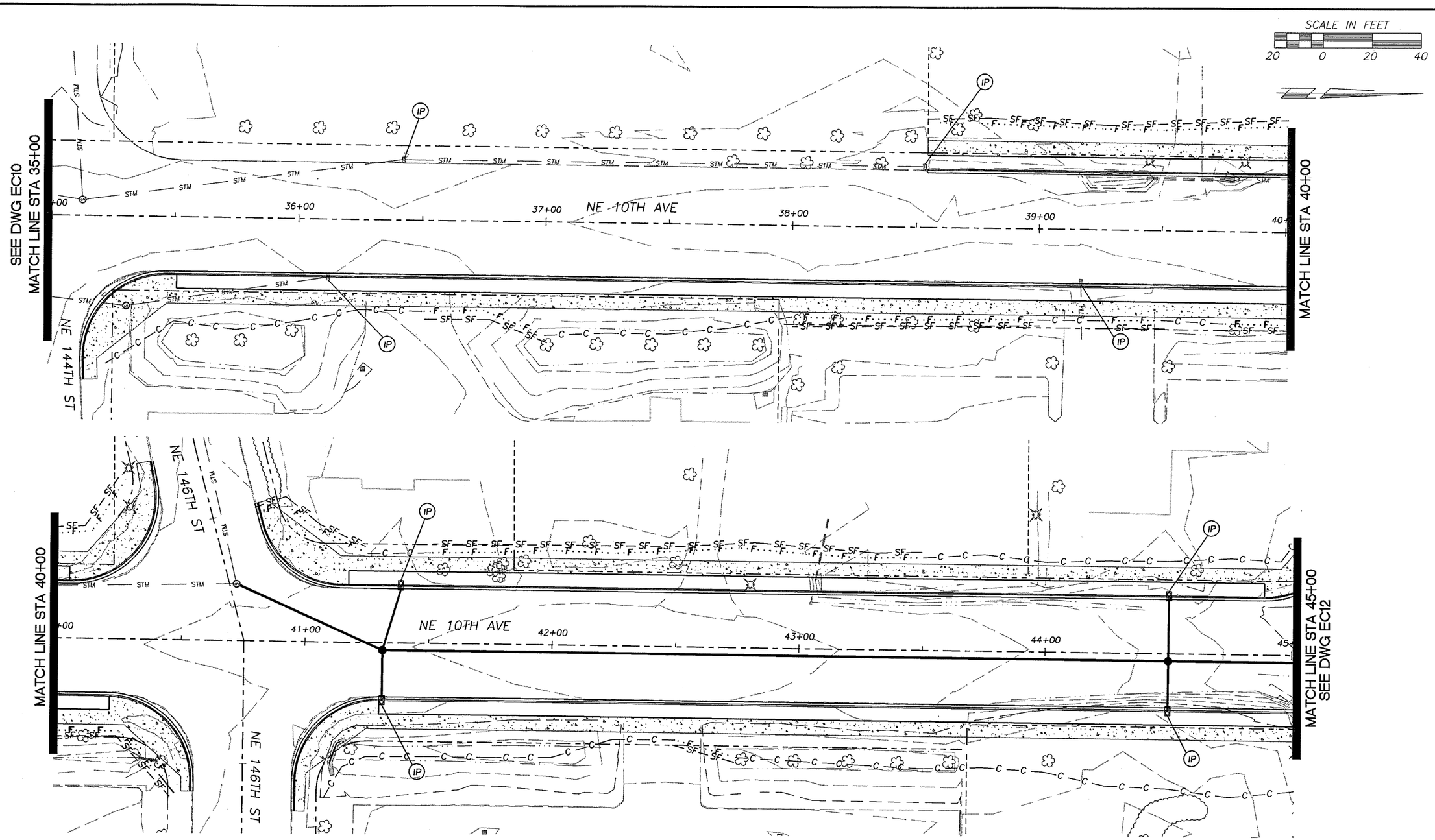
THOMAS D. GRANGE
STATE OF WASHINGTON
32084
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
EROSION CONTROL PLAN (NE 10TH AVE)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC8-12.dwg, 8/31/2005 9:17:07 AM, kerinr



PRELIMINARY

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

LEGEND

— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC11
SHEET	18 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

LICENSED STATE OF WASHINGTON THOMAS D. GRANGE 32066 PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

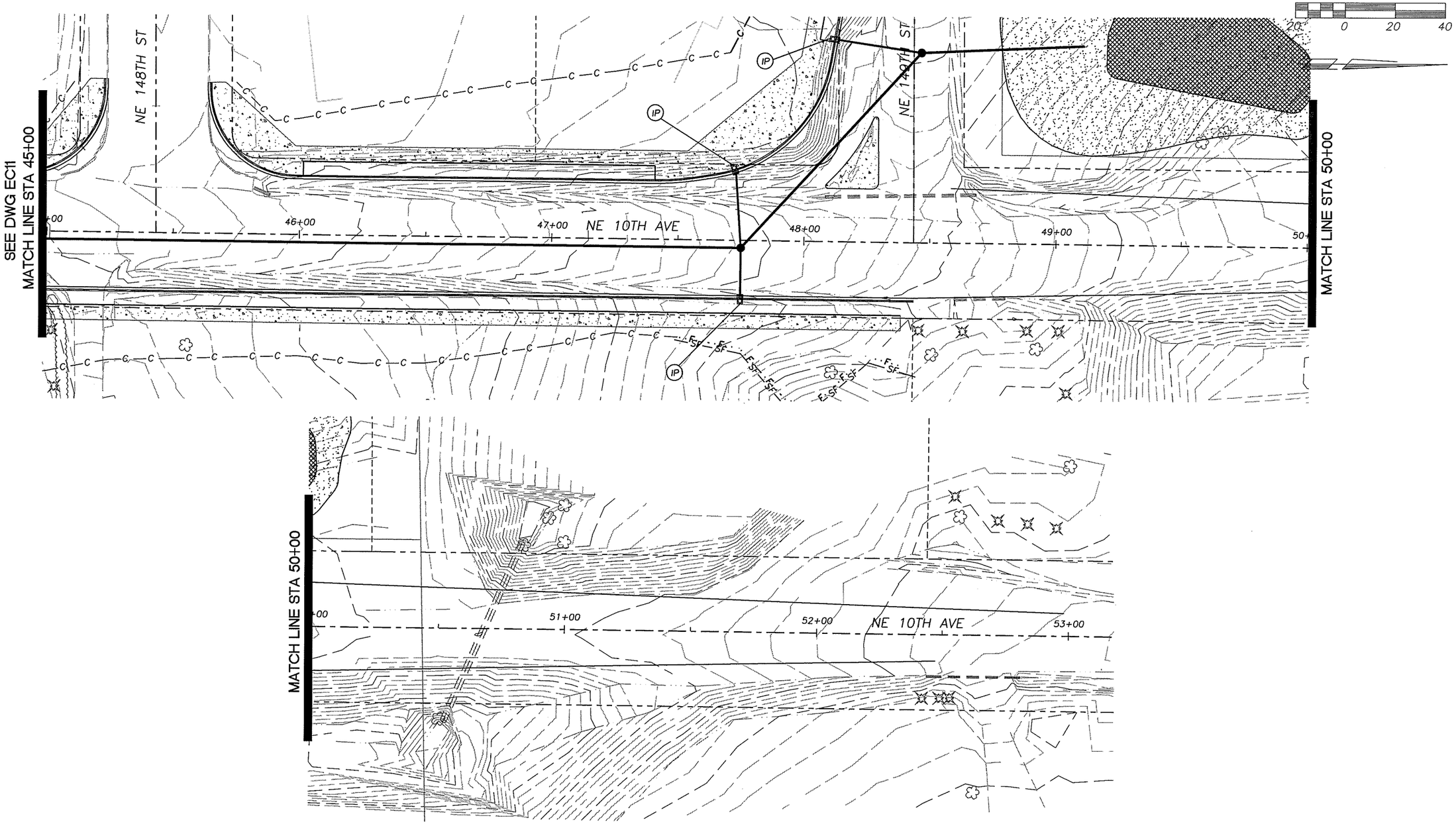
SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL PLAN (NE 10TH AVE)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC8-12.dwg, 8/31/2005 9:17:26 AM, kerlinr



PRELIMINARY

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

LEGEND

— SF — SILT FENCE

(IP) INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC12
SHEET	19 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
22868
PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL PLAN (NE 10TH AVE)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC8-12.dwg, 8/31/2005 9:17:47 AM, kerlinr

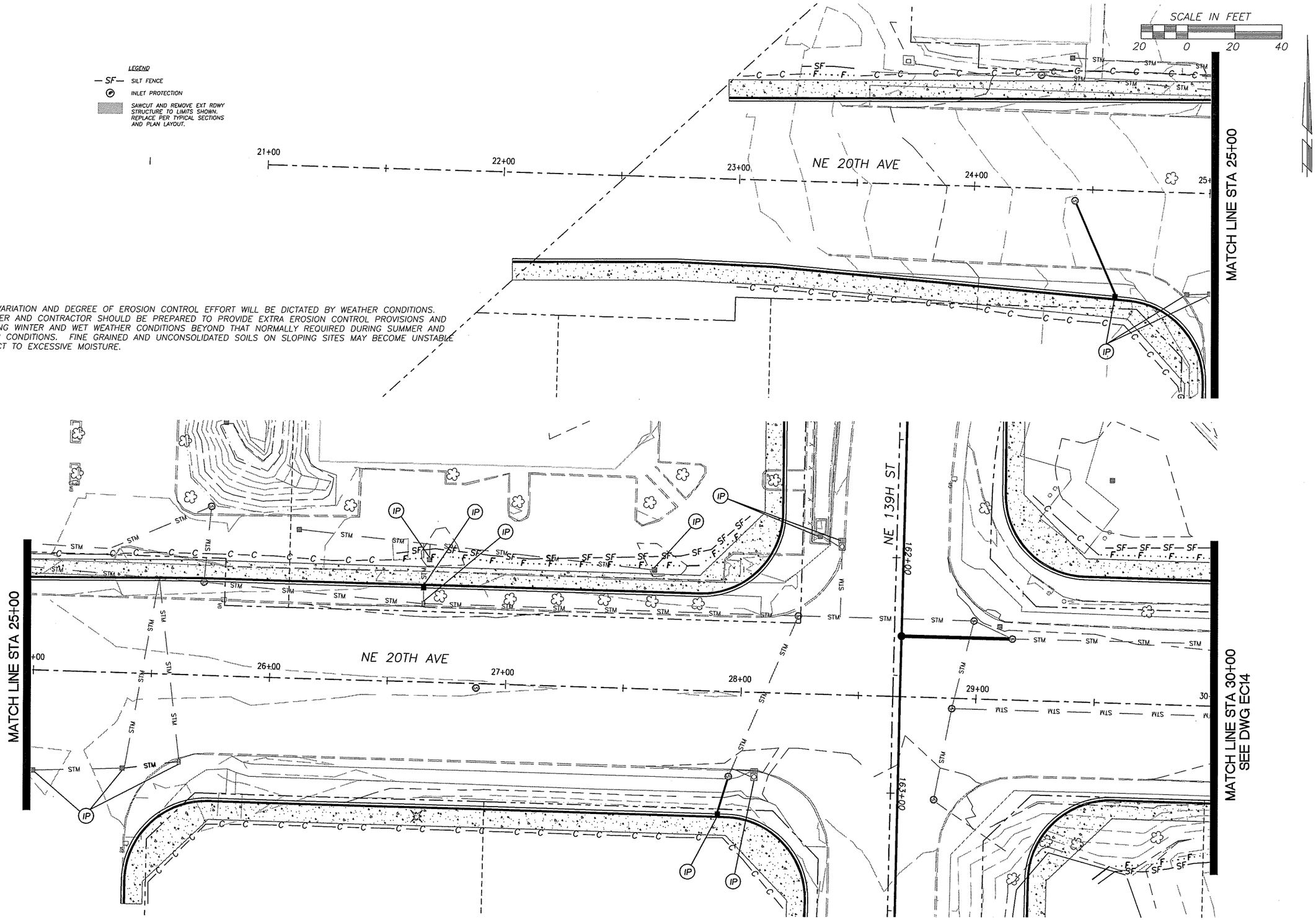
LEGEND

— SF — SILT FENCE

IP INLET PROTECTION

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT.

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC13
SHEET	20 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRAHAM STATE OF WASHINGTON 27008 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

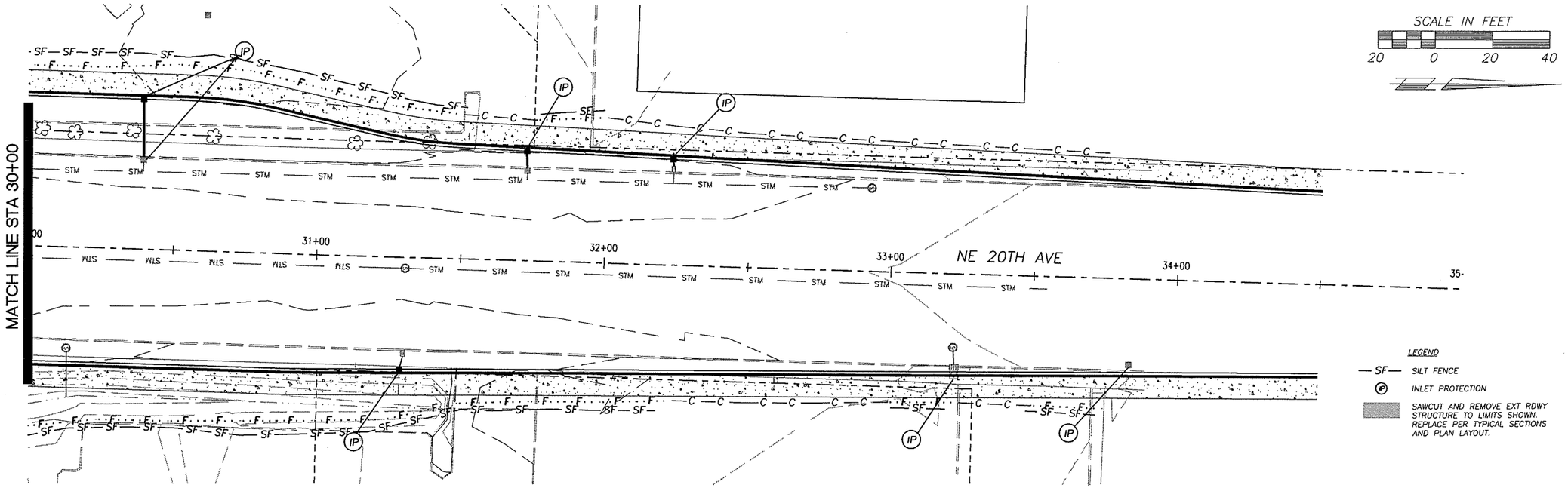
SALMON CREEK INTERCHANGE PROJECT

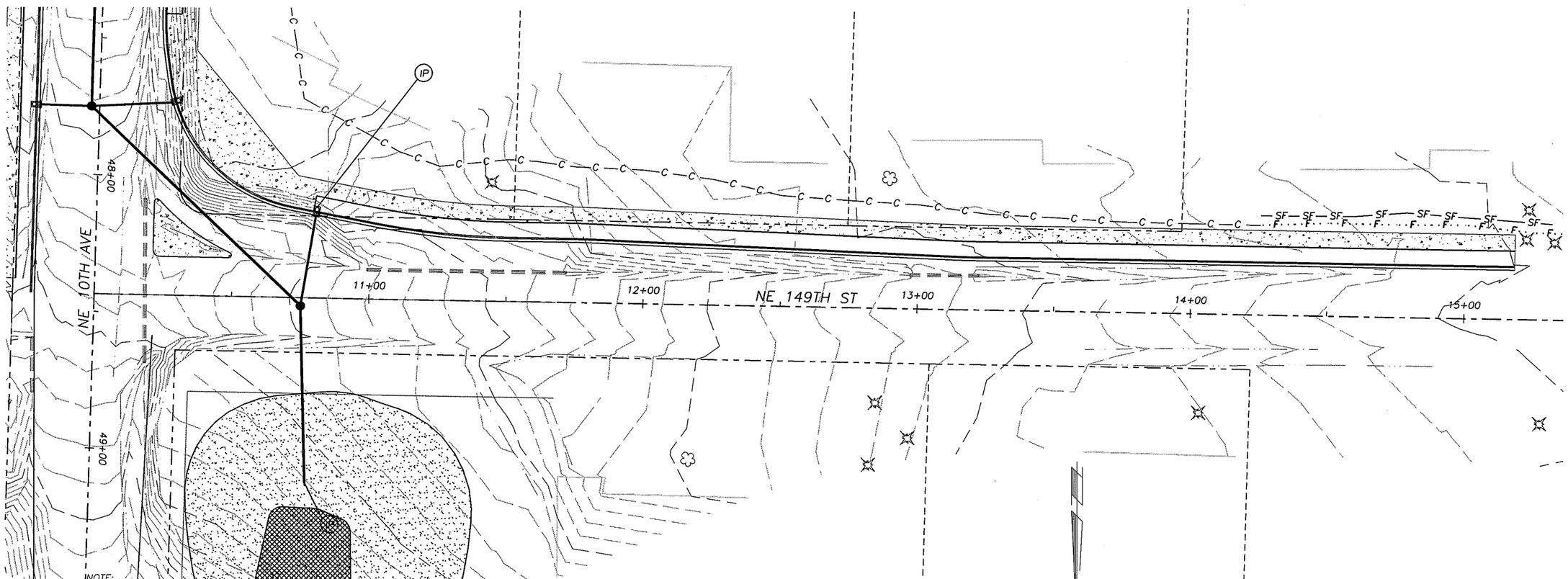
EROSION CONTROL PLAN (NE 20TH AVE)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC13-14.dwg, 8/31/2005 7:14:54 AM, kerlinr





NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG.	EC14
SHEET	21 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STEVEN D. GRANGE
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 29, 2006

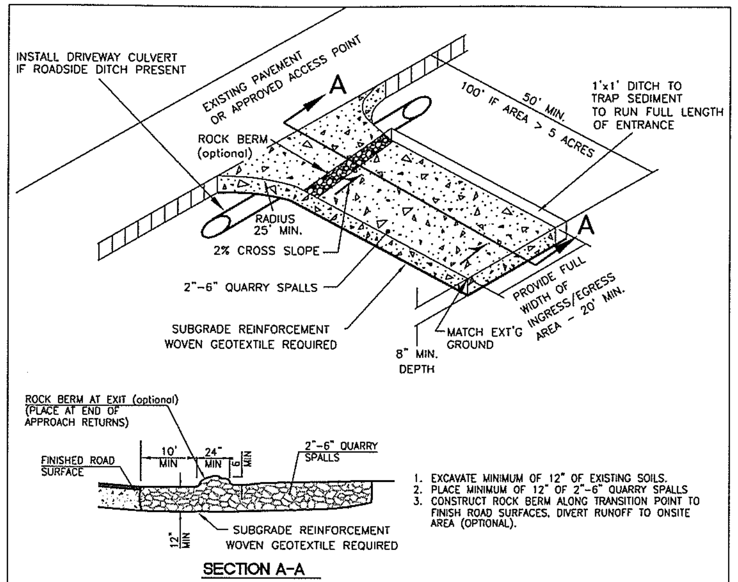
ENGINEERING PROGRAM DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL PLAN (NE 20TH AVE)

proud past, promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC13-14.dwg, 8/31/2005 7:15:13 AM, keilinr



1. EXCAVATE MINIMUM OF 12" OF EXISTING SOILS.
2. PLACE MINIMUM OF 12" OF 2"-6" QUARRY SPALLS
3. CONSTRUCT ROCK BERM ALONG TRANSITION POINT TO FINISH ROAD SURFACES. DIVERT RUNOFF TO ONSITE AREA (OPTIONAL).

NOTES:

1. FOR DEVELOPMENT PROJECTS REVIEWED BY ENGINEERING SERVICES. NOT FOR USE WITH SINGLE FAMILY OR DUPLEX RESIDENTIAL BUILDING PERMITS. SEE BUILDING DEPT. FOR GRAVEL CONSTRUCTION ENTRANCE PLAN.
2. INSTALL WOVEN GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.
3. VEHICLE WASHDOWN AREA, IF REQUIRED, IS TO BE INSTALLED AND USED TO REMOVE SEDIMENT FROM VEHICLES THAT ARE ABOUT TO ENTER AN ESTABLISHED ROAD.
4. WASHDOWN AREA TO BE MADE UP OF CLEAN 2"- 6" QUARRY SPALLS, 1" DEEP (MIN) OVER WOVEN GEOTEXTILE FABRIC. WASHDOWN AREA TO BE FULL WIDTH OF ENTRANCE AND 50' (MIN.), AND 100' IF EXPOSED SOIL IS OVER 5 ACRES.
5. AT TIME OF PRECONSTRUCTION MEETING, THE COUNTY INSPECTOR MAY REQUIRE THE ENTRANCE TO BE PAVED TO THE EDGE OF THE RIGHT-OF-WAY PRIOR TO THE INSTALLATION OF A WASHDOWN ENTRANCE TO AVOID DAMAGE TO THE EXISTING ROADWAY.
6. THE RESPONSIBLE EROSION CONTROL INDIVIDUAL IS TO ENSURE THAT ALL VEHICLES USE THIS ENTRANCE AND ARE TO BE INSPECTED AND CLEANED OF SOILS BEFORE LEAVING PROJECT, AND THAT THE ENTRANCE IS TO BE KEPT CLEAN AT ALL TIMES.

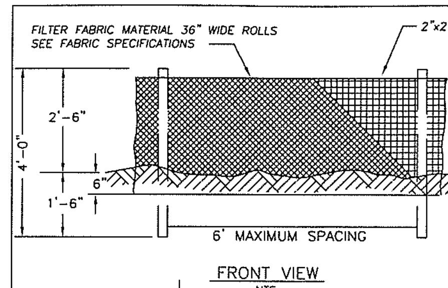
NO.	REVISIONS	DATE	BY

DWG: E-1.DWG

Department of Public Works — CLARK COUNTY WASHINGTON — proud past, promising future

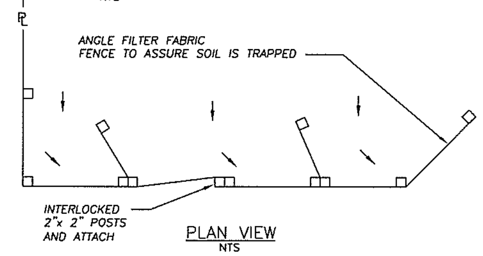
STANDARD CONSTRUCTION ENTRANCE — STANDARD E-1

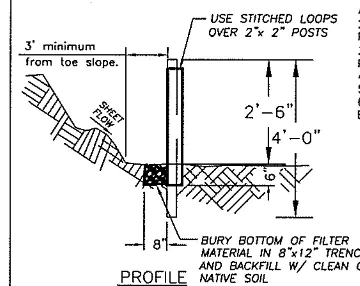
APPROVED: COUNTY ENGINEER — 01/01/04 DATE — PLAN No. DESIGNED SCH, DRAWN SCH, DATE 07/02/03



SEDIMENT FENCE FABRIC SPECIFICATIONS
(Woven Polyproylene sediment fence fabric)

PROPERTY	TEST PROCEDURE	MIN. FABRIC VALUE
Grab Tensile Strength	ASTM D-4632	180 lbs.
Grab elongation	ASTM D-4632	15%
trapezoid Tear	ASTM D-4533	70 lbs.
Mullen Burst	ASTM D-3786	300 psi.
Puncture	ASTM D-4833	80 lbs.
Permitivity	ASTM D-4491	0.07 sec-1
Permeability	ASTM D-4491	.005 cm/sec
A.O.S.	ASTM D-4751	50 U.S. Sieve
UV Resistance(500 hrs)	ASTM D-4355	90%





NOTES

1. THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED. (SEE FABRIC SPECIFICATIONS ABOVE)
2. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
3. POST ARE TO BE 2"x2" FIR, PINE OR STEEL FENCE POSTS.
4. POST TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
5. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
6. SEDIMENT FENCE TO BE SPACED ON SLOPES PER TABLE BELOW.

INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

% SLOPE	SLOPE	MAX. SPACING ON SLOPE
10% FLATTER	10:1 OR FLATTER	300 ft.
10>%<15	10:1>x<7.5:1	150 ft.
15>%<20	7.5:1>x<5:1	100 ft.
20>%<30	5:1>x<3.5:1	50 ft.
30>%<50	3.5:1>x<2:1	25 ft.

NO.	REVISIONS	DATE	BY

DWG: E-4.DWG

Department of Public Works — CLARK COUNTY WASHINGTON — proud past, promising future

STANDARD SEDIMENT FENCE — STANDARD E-4

APPROVED: COUNTY ENGINEER — 01/01/04 DATE — PLAN No. DESIGNED SCH, DRAWN SCH, DATE 07/07/03

STANDARD NOTES FOR EROSION CONTROL PLAN

1. The Contractor shall install and maintain BMP's as shown and perform all actions necessary to prevent erosion, and control sediment from leaving the construction site. Site Contractor shall comply with Clark County Code Chapter 40.380.050.

2. All erosion control measures shall be in-place and in working condition prior to disturbing and exposing any soil surfaces (i.e. silt fence, construction entrance, sedimentation barriers, sedimentation traps).

3. All erosion prevention and control BMP's shall be maintained and repaired as needed to insure continued performance of their intended function. Needed repairs shall be made as soon as practicable. They are to remain in place and operational during all phases of construction. Construction activities shall not continue or resume until repairs to erosion control facilities are made and the facilities are functional. Any sediment leaving the site or discharging to a sensitive area shall be stopped and controlled immediately. Contaminated areas shall be cleaned and restored.

4. Clearing limits and work area limits shall be delineated and marked. Do not disturb more area than needed for construction requirements.

5. All sensitive or critical areas (wetlands, steep slopes, natural waterways), and buffers shall all be clearly delineated and clearly marked, and protected from sediment deposition.
6. Sediment laden runoff shall be prevented from entering all existing storm water catch basins and inlets affected by construction.

7. No exposed, bare soils shall remain unstabilized for more than two days during the period October 1 thru April 30 or for more than seven days during the period of May 1 through September 30. All disturbed soil surfaces shall be stabilized by a suitable application of "Best Management Practices".

8. Where feasible, no more than 500 feet of trench shall be open at one time. Excavated material shall be placed on the up-hill side of trenches provided it does not conflict with safety requirements.

9. Dewatering devices shall discharge into a sediment trap or sediment pond. No discharge shall be made to a paved street or stormwater collection system without first removing sediment.

10. Cut and fill slopes shall be constructed in a manner that will minimize erosion. Erosion shall be controlled and prevented by such measures as roughening the surface, installation of interceptor ditches, terracing, covering with matting, mulch or plastic sheeting. Runoff shall be prevented from entering a slope and from undercutting the base of slopes.

11. Any soil or debris transported onto roadways and sidewalks shall be removed. Deposits shall be completely removed by shoveling and/or sweeping. Washing shall not be utilized unless specifically approved in writing by the County.

12. All permanent infiltration systems shall be isolated and protected from sediment laden runoff entering to avoid risk of reducing the ability of the systems to infiltrate. Isolation and protection shall not be removed until the drainage area tributary to the system is completely stabilized.

CONTINUED ON SHEET 2

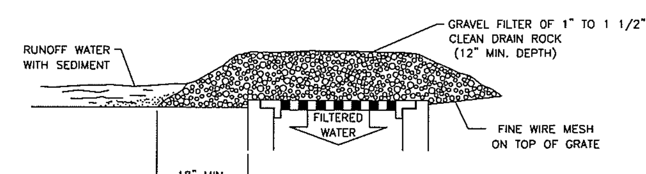
NO.	REVISIONS	DATE	BY

DWG: ECN1.DWG

Department of Public Works — CLARK COUNTY WASHINGTON — proud past, promising future

STANDARD NOTES FOR EROSION CONTOL PLAN — STANDARD ECN1

APPROVED: COUNTY ENGINEER — 01/01/04 DATE — PLAN No. DESIGNED SCH, DRAWN SCH, DATE 08/02/02



GRAVEL & WIRE MESH

NOT TO BE USED IN TRAVELED WAY IF IT MAY RESULT IN A TRAFFIC HAZARD

INLET PROTECTION NOTES:

1. INLET PROTECTION IS INTENDED TO PREVENT COARSE SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS BY FILTERING RUNOFF AND RETAINING SEDIMENT BEFORE IT REACHES A DRAINAGE OR STORM SEWER SYSTEM.
2. PLACE INLET PROTECTION IN AREAS WHERE WATER CAN POND, AND WHERE PONDING WILL NOT HAVE ADVERSE IMPACTS.
3. INLET PROTECTION MUST ALLOW FOR OVERFLOW IN A SEVERE STORM EVENT.
4. INLET PROTECTION TYPES INCLUDE: TYPE 1 - GRAVEL AND WIRE MESH; TYPE 2 - MASONRY AND ROCK; TYPE 3 - SEDIMENT FENCE; TYPE 4 - BIOFILTER BAGS; TYPE 5 - CATCH BASIN INSERT
5. INSPECT ONCE PER WEEK ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RAIN EVENT.
6. CLEAN INLET PROTECTION DURING AND AFTER EACH SIGNIFICANT STORM AND REMOVE SEDIMENT FROM BEHIND STRUCTURE AFTER EVERY STORM.
7. IF ROCK BECOMES CLOGGED WITH SEDIMENT, IT MUST BE CAREFULLY REMOVED FROM THE INLET AND EITHER CLEANED OR REPLACED.
8. ASSESS THE IMPACT OF ALLOWING WATER TO POND AT THE INLET AND PROVIDE AN OVERFLOW WEIR OR SOME OTHER TYPE OF RELIEF AS NEEDED.
9. CONSIDER THE EFFECT OF PLACING OBSTRUCTIONS AT INLETS ON GRADE MAY HAVE ON THEIR EFFICIENCY.
10. USE MECHANICAL MEANS TO REMOVE SEDIMENT DEPOSITS (SHOVEL, BROOM, SWEEPER/VACTOR UNIT).
11. REMOVE SEDIMENT ACCUMULATED ON OR AROUND THE PROTECTION AS NEEDED TO MAINTAIN INTENDED FUNCTION.
12. REPAIR OR REPLACE MATERIALS AS NEEDED TO ENSURE PROPER FUNCTION.

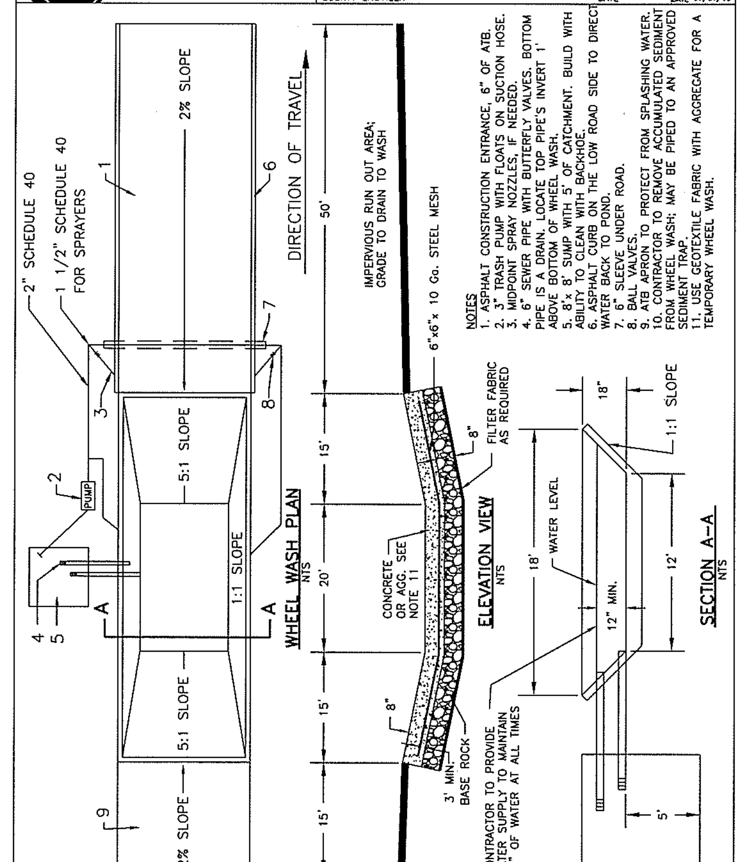
NO.	REVISIONS	DATE	BY

DWG: E-3.DWG

Department of Public Works — CLARK COUNTY WASHINGTON — proud past, promising future

INLET PROTECTION TYPE 1 GRAVEL AND WIRE MESH — STANDARD E-3

APPROVED: COUNTY ENGINEER — 01/01/04 DATE — PLAN No. DESIGNED SCH, DRAWN SCH, DATE 08/01/02



NO.	REVISIONS	DATE	BY

DWG: E-15

Department of Public Works — CLARK COUNTY WASHINGTON — proud past, promising future

WHEEL WASH — STANDARD E-15

APPROVED: COUNTY ENGINEER — 01/01/04 DATE — PLAN No. DESIGNED SCH, DRAWN SCH, DATE 08/13/02

STANDARD NOTES FOR EROSION CONTROL PLAN (CONTINUED)

13. All conveyance channels, both temporary and permanent shall be stabilized to prevent erosion of the channel. Stabilization shall extend to areas at outlets and downstream reaches vulnerable to erosion resulting from flow discharging from the channel.

14. If BMP's shown are utilized but are insufficient to prevent sediment from reaching water bodies, adjacent properties, or public rights-of-way; additional BMP's shall be implemented immediately to prevent further encroachment of sediment.

15. Stabilized areas shall be provided for employee parking and storage of construction materials. Erodeable stockpiles of earthen materials, such as topsoil, silty and clayey soils; and landscape materials, shall be covered when not being incorporated in the work. Erosion control BMP's shall be utilized as necessary to prevent sediment laden runoff from leaving or sediment being transported from these areas from vehicle activity.

16. All pollutants other than sediment that occur during construction shall be handled and disposed of in a manner that does not cause contamination of storm water.

17. The Contractor shall keep an inspection log of the condition of the erosion control facilities. Erosion control facilities shall be inspected at least weekly and after each rainfall. The inspection log shall be kept at the project site at a designated location and shall be available for review by the County. An individual that has successfully completed the County's Erosion Control Certification course shall perform inspections and maintain the log.

18. All temporary BMP's shall be removed within 30 days after final site stabilization is achieved. Trapped sediment shall be deposited and stabilized on site. Areas disturbed resulting from removal shall be permanently stabilized.

19. Construction shall not be considered complete and acceptable until all disturbed soil surfaces have been protected from erosion with permanent landscaping, covering with impervious surfaces, restored to original undisturbed condition or permanently stabilized.

20. Vegetated stabilization and landscaping shall be fertilized, watered and maintained to insure that growth of vegetation is established and sustained.

21. During dry weather construction periods the contractor shall provide project-specific dust control measures that may include: Seeding, Mulching, Matting, Water, Tackifier, or Chemical Soil Stabilizers. The contractor shall maintain the dust control measures through dry weather periods until all disturbed areas have been stabilized. Immediately re-stabilize areas disturbed by contractor's operations or other activities (wind, water, vandalism, etc.).

22. Entry onto the construction site shall be restricted to a single approved entrance as shown on the plan.

23. Maintenance and repair of heavy equipment and vehicles which involve potential contaminants (oil,solvents,hydraulic fluid, etc.) must be conducted in a manner which prevents contamination of soils, surface water and ground water. Tarps, drip pans, or other appropriate measures shall be used as necessary.

24. Stripping, topsoil, and unsuitable material stockpiles shall be hydroseeded with "regreen wheat x wheat grass hybrid" by Hobbs and Hobkins (or approved equal). Maintenance of stockpile areas and reapplication of hydroseed covering shall be required if bare soil is present. During winter and wet weather conditions, stockpiles shall be covered with plastic sheeting per detail E-16.

SHEET 2 OF 2

NO.	REVISIONS	DATE	BY

DWG: ECN2.DWG

Department of Public Works — CLARK COUNTY WASHINGTON — proud past, promising future

STANDARD NOTES (CONTINUED) FOR EROSION CONTOL PLAN — STANDARD ECN2

APPROVED: COUNTY ENGINEER — 01/01/04 DATE — PLAN No. DESIGNED SCH, DRAWN SCH, DATE 07/22/03

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	EC15
SHEET	22 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

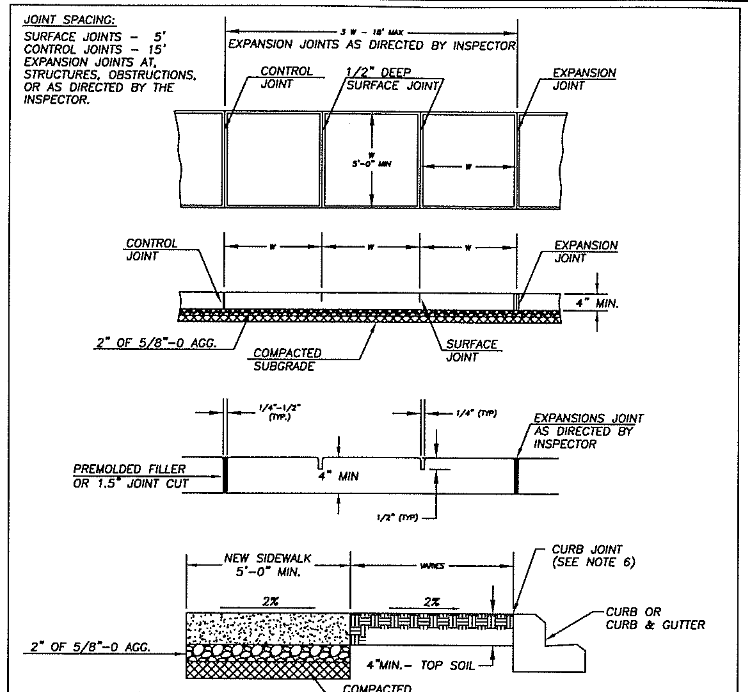
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

EROSION CONTROL DETAILS

CLARK COUNTY WASHINGTON — proud past, promising future

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\EC15.dwg, 8/31/2005 7:15:34 AM, kerlinr



NOTES:

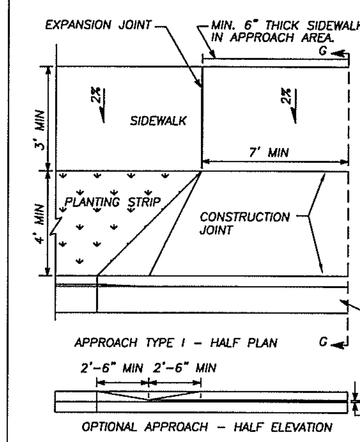
1. CONCRETE SHALL BE 3,000 PSI MIN. (CLASS 3000), 3 1/2" SLUMP (± 1")
2. FINISH SHALL BE MEDIUM BROOM PERPENDICULAR TO PEDESTRIAN TRAFFIC UNLESS OTHERWISE DIRECTED.
3. ALL EXISTING EDGES SHALL BE SAWCUT.
4. NO FILLER REQUIRED FOR SURFACE JOINTS.
5. ALL JOINTS AND EDGES SHALL BE FINISHED WITH 1/4" RADIUS EDGER (3" SMOOTH EACH SIDE)
6. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.

NO.	REVISIONS	DATE	BY
1	CHANGE SUBGRADE &	03/28/02	KB
2	2" BASE AGG. & NOTES	10/07/02	SCH

DWG: F12.dwg

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

SIDEWALK DETAIL
APPROVED
COUNTY ENGINEER — DATE 01/01/04
STANDARD F12 PLAN No.
DESIGNED DB · DRAWN KB · DATE 10/08/02

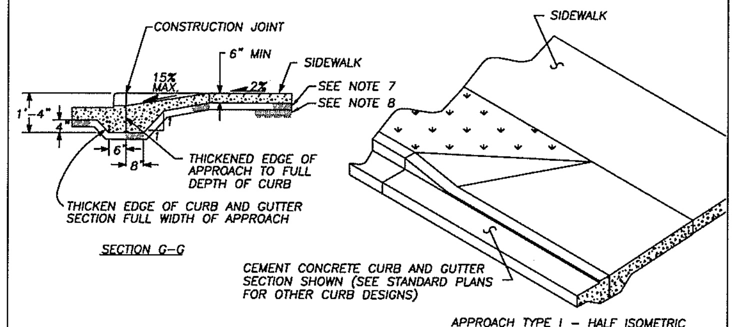


NOTES:
1. A MINIMUM 3' WIDE ACCESSIBLE ROUTE SHALL BE MAINTAINED IN ALL PEDESTRIAN ACCESSIBLE AREAS.
2. CONTRACTION POINTS SHALL BE PLACED ALONG SIDEWALKS IN ACCORD WITH SIDEWALK DETAIL. ALL JOINTS SHALL BE CLEANED AND EDGED.
3. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2:1.
4. CEMENT CONCRETE APPROACHES SHALL BE CONSTRUCTED OF AIR-ENTRAINED CLASS 3000 AND MAY BE POURED INTEGRAL WITH CURB.
5. EXISTING CURB, GUTTER, AND SIDEWALK TO BE SAWCUT AND REMOVED FOR INSTALLATION OF APPROACH.
6. COMMERCIAL DRIVEWAY REQUIRES REINFORCING STEEL (6"x6" 10 GA WIRE MESH) MIN. 3" COVER.
7. 3" DEPTH 3/4"–0 CRUSHED AGGREGATE BASE COMPACTED TO 95% OF MAX. DRY DENSITY.
8. SUBGRADE PREPARATION PER WSDOT STD. SPEC. 2–06.3(1).

CEMENT CONCRETE CURB AND GUTTER SECTION SHOWN (SEE STANDARD PLANS FOR OTHER CURB DESIGNS).

1/2" MAX (BEVEL WHERE POSSIBLE) SEE NOTE 3.

NOTE: USE TYPE 1 APPROACH ONLY WHEN A SIDEWALK IS USED AT THE BACK OF THE APPROACH.

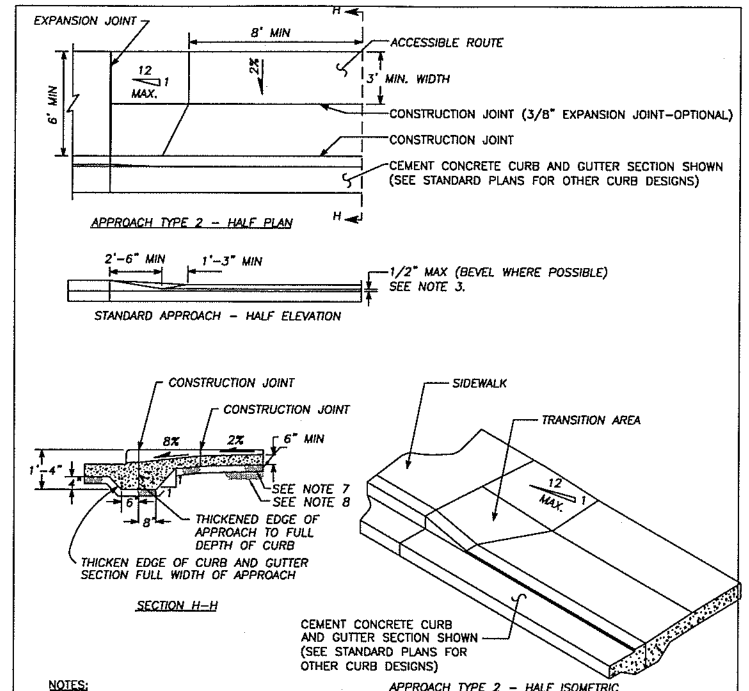


NO.	REVISIONS	DATE	BY
1	NOTE #6, 7, 8	10/09/02	SCH

DWG: F14.dwg

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

DETAIL – TYPE 1
CEMENT CONCRETE APPROACH
APPROVED
COUNTY ENGINEER — DATE 8/22/00
F14
DESIGNED DB · DRAWN KB · DATE 7/24/00



APPROACH TYPE 2 – HALF ISOMETRIC

NOTES:

1. A MINIMUM 3' WIDE ACCESSIBLE ROUTE SHALL BE MAINTAINED IN ALL PEDESTRIAN ACCESSIBLE AREAS.
2. CONTRACTION JOINTS SHALL BE PLACED ALONG SIDEWALKS IN ACCORD WITH SIDEWALK DETAIL. ALL JOINTS SHALL BE CLEANED AND EDGED.
3. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2:1.
4. CEMENT CONCRETE APPROACHES SHALL BE CONSTRUCTED OF AIR-ENTRAINED CONCRETE CLASS 3000 AND MAY BE POURED INTEGRAL WITH CURB.
5. EXISTING CURB, GUTTER AND SIDEWALK TO BE SAWCUT AND REMOVED FOR INSTALLATION OF APPROACH.
6. COMMERCIAL DRIVEWAY REQUIRES REINFORCING STEEL (6"x6" 10 GA WIRE MESH) MIN. 3" COVER
7. 3" DEPTH 3/4"–0 CRUSHED AGGREGATE BASE COMPACTED TO 95% OF MAX. DRY DENSITY.
8. SUBGRADE PREPARATION PER WSDOT STD. SPEC. 2–06.3(1).

NO.	REVISIONS	DATE	BY
1	NOTES #6, 7, 8	10/09/02	SCH

DWG: F15.DWG

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

CEMENT CONCRETE APPROACH
DETAIL – TYPE 2
APPROVED
COUNTY ENGINEER — DATE 8/22/00
F15
DESIGNED DB · DRAWN KB · DATE 7/24/00

OPEN CUT UTILITY TRENCH BACKFILL DETAIL (COLLECTOR OR ARTERIAL)

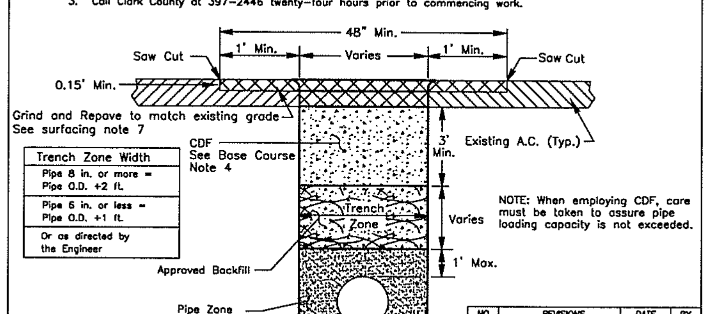
SURFACING:
1. All A.C.P. shall be saw cut to provide a straight, clean edge prior to paving.
2. The cut line shall be one continuous straight line from the outer excavation limits of manhole, valve box, etc. to manhole, valve box, etc.
3. Pave with an 0.5 ft. minimum compacted depth A.C.P., or match existing or design section, whichever is greater.
4. Lifts for A.C.P. (Class A) shall be 0.15 ft. minimum and 0.35 ft. maximum for non-surface lifts (0.25' maximum for surface lift); the temperature shall be 250 degree minimum, 350 degree maximum, compacted to 92% of the theoretical maximum.
5. All joints shall be tacked, sealed and sanded.
6. Trench shall be plated until paved.
7. For longitudinal installation, full lane width including turn lanes restoration shall be required or as directed by Clark County. For transverse installation refer to surfacing restoration of detail U6. See Section 12.20A.120.C.

BASE COURSE:
1. 0.80 ft. minimum depth (1–1/4" minus) C.S.B.C. (W.S.D.O.T. approved material).
2. Compacted to 95% of maximum density. See trench zone.
3. Equivalent depth of A.T.B. may be substituted.
4. For transverse or diagonal trenches in existing roadway pavement, CDF (as defined in the standard specifications section 2–09.3(1)E) will be used for a minimum of 3' in depth or from 6" above the top of the pipe to the bottom of full pavement section which ever is less.

TRENCH ZONE:
1. Granular backfill as approved by local agency or W.S.D.O.T. specifications for granular backfill. Compacted to 95% of maximum density in the trench zone using Method C compaction as per Section 2–03.3(14)C.
2. Native material may be used if approved prior to construction by Clark County.
3. Trench zone width –– see below.

PIPE ZONE:
1. Pipe zone material as specified by utility owner, and shall conform to section 9–03.12(3) WSDOT Specs.
2. 1.0 ft. max. from top of the pipe. 6" from top of pipe when CDF backfill used.

CONDITIONS:
1. A copy of the permit and requirements shall be on the job site at all times.
2. The permit holder shall be responsible for all restoration and maintenance of ditches, shoulders, driveways, landscaping, etc.
3. Call Clark County at 397–2446 twenty-four hours prior to commencing work.



NO.	REVISIONS	DATE	BY
1	ILLUSTRATIVE CHANGE	07/10/01	BK
2	Notes: 6 Del, Rev. 7	12/07/01	SCH

DWG: U1.DWG

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

OPEN CUT UTILITY TRENCH BACKFILL DETAIL COLLECTOR OR ARTERIAL ROADWAY
APPROVED
COUNTY ENGINEER — DATE 7/20/01
STANDARD U1 PLAN No.
DATE 04/25/03

ROADWAY SHOULDER INCLUDES LAWN AND LANDSCAPE

SHOULDER ROCK:
1. 0.50 ft. minimum depth (1 1/4" minus) crushed rock. (Clark County Approved Material).
2. Compacted to 95% of maximum density. See trench zone.
3. Rock shall extend from E.O.P. to the back of trench at approx. .05 Ft./Ft. slope.

LAWN & LANDSCAPE AREAS:
1. A County approved top soil shall be placed 0.50 Ft. in depth.
2. Area to be restored to match existing.

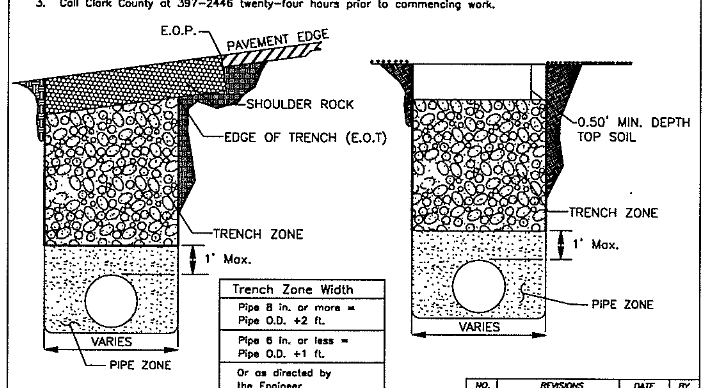
TRENCH ZONE:

Where the distance from E.O.T. to E.O.P. is less than or equal to the depth of the trench; these conditions shall apply:

1. Granular backfill as approved by local agency or W.S.D.O.T. specifications for granular backfill. Compacted to 95% of maximum density in the trench zone using Method C compaction as per Section 2–03.3 (14)C.
2. Native material may be used if approved prior to construction.
3. Trench zone width –– see below.
4. Shoulder rock or landscaped sections as applicable.

PIPE ZONE:
1. Pipe zone material as specified by utility owner, and shall conform to section 9–03.12(3) WSDOT Specs.
2. 1.0 ft. max. from top of the pipe.

CONDITIONS:
1. A copy of the permit and requirements shall be on the job site at all times.
2. The permit holder shall be responsible for all restoration and maintence of ditches, shoulders, driveways, landscaping, ect.
3. Call Clark County at 397–2446 twenty-four hours prior to commencing work.



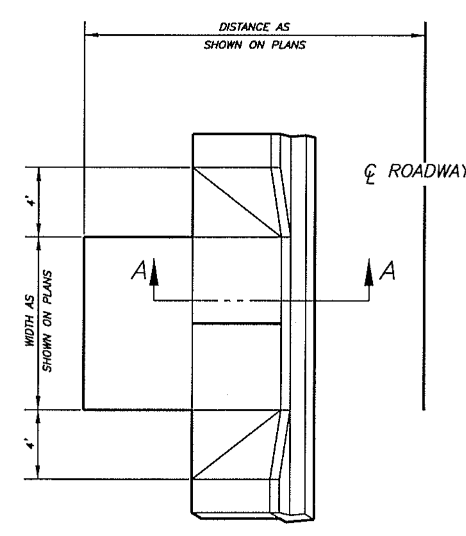
NO.	REVISIONS	DATE	BY
1	NOTE FIG 2	05/02/01	DS
2	Pipe Zone Notes	10/07/01	SCH

DWG: U5.DWG

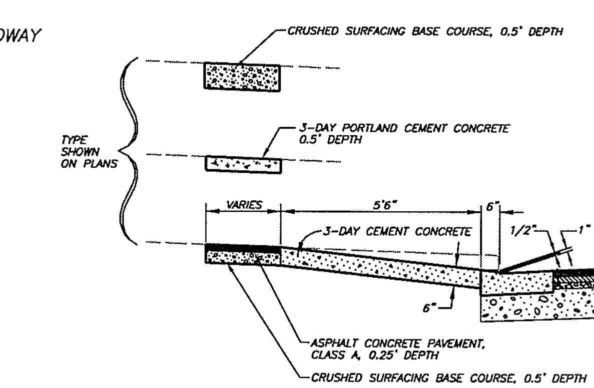
Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

ROADWAY SHOULDER INCLUDES LAWN & LANDSCAPE
APPROVED
COUNTY ENGINEER — DATE 5/4/01
STANDARD U5 PLAN No.
DATE 04/25/02

PRELIMINARY



TYPICAL DRIVEWAY ENTRANCE
NTS



SECTION A-A
NTS

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	RD1
SHEET	23 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
ROADWAY DETAILS

proud past, promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\RD1-2.dwg, 8/30/2005 9:59:14 AM, kerlinr

NEW CONSTRUCTION
FOR USE WITH SIDEWALKS LOCATED ANYWHERE IN THE RIGHT-OF-WAY

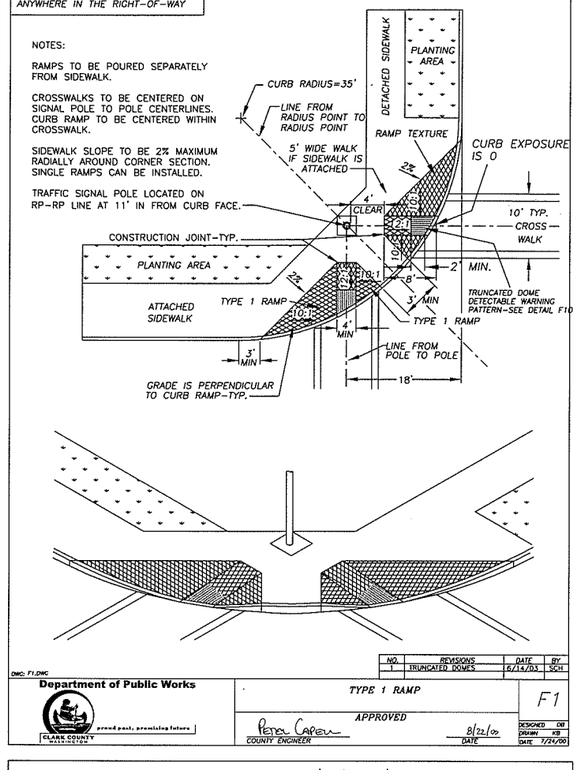
NOTES:

RAMPS TO BE POURED SEPARATELY FROM SIDEWALK.

CROSSWALKS TO BE CENTERED ON SIGNAL POLE TO POLE CENTERLINES. CURB RAMP TO BE CENTERED WITHIN CROSSWALK.

SIDEWALK SLOPE TO BE 2% MAXIMUM RADIALLY AROUND CORNER SECTION. SINGLE RAMPS CAN BE INSTALLED.

TRAFFIC SIGNAL POLE LOCATED ON RP-RP LINE AT 11' IN FROM CURB FACE.



NO.	REVISIONS	DATE	BY
1	TRUNCATED DOMES	6/14/03	SCH

DWG: F1.DWG

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

TYPE 1 RAMP — F1

APPROVED
Peter Capell
COUNTY ENGINEER — 8/22/00 DATE

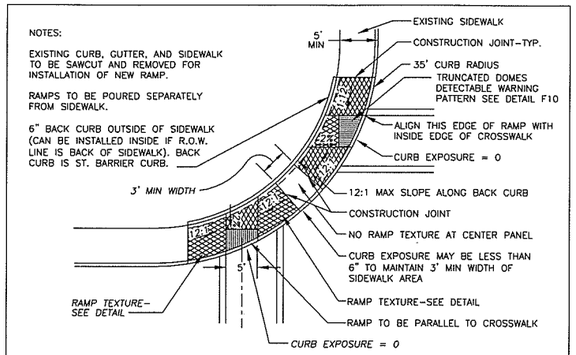
DESIGNED DB
DRAWN KB
DATE 7/24/00

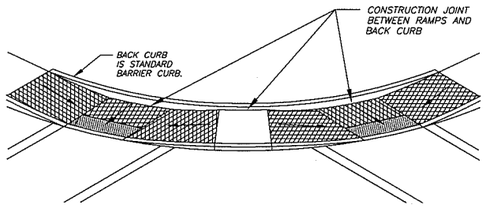
NOTES:

EXISTING CURB, GUTTER, AND SIDEWALK TO BE SAWCUT AND REMOVED FOR INSTALLATION OF NEW RAMP.

RAMPS TO BE POURED SEPARATELY FROM SIDEWALK.

6" BACK CURB OUTSIDE OF SIDEWALK (CAN BE INSTALLED INSIDE IF R.O.W. LINE IS BACK OF SIDEWALK). BACK CURB IS ST. BARRIER CURB.





THIS TYPE OF RAMP IS ONLY TO BE USED IN EXISTING RESTRICTED RIGHT-OF-WAY AREAS, DOUBLE RAMP SHOWN-SINGLE RAMP MAY BE USED AT SOME INSTALLATIONS.

NO.	REVISIONS	DATE	BY
1	TRUNCATED DOMES	6/14/03	SCH

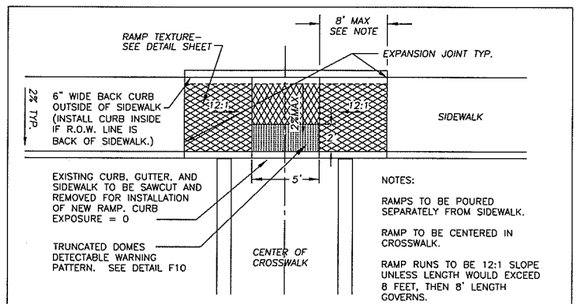
DWG: F2.DWG

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

TYPE 2 RAMP - DOUBLE — F2

APPROVED
Peter Capell
COUNTY ENGINEER — 8/22/00 DATE

DESIGNED DB
DRAWN KB
DATE 7/24/00



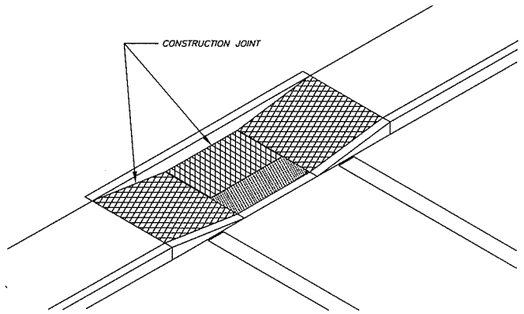
NOTES:

RAMPS TO BE POURED SEPARATELY FROM SIDEWALK.

RAMP TO BE CENTERED IN CROSSWALK.

RAMP RUNS TO BE 12:1 SLOPE UNLESS LENGTH WOULD EXCEED 8 FEET, THEN 8' LENGTH GOVERNS.

BACK CURB IS STANDARD BARRIER CURB.



NO.	REVISIONS	DATE	BY
1	TRUNCATED DOME PATTERN	6/13/03	SCH

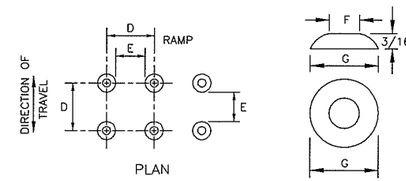
DWG: F3.DWG

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

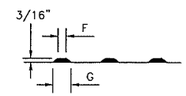
TYPE 3 RAMP — F3

APPROVED
Peter Capell
COUNTY ENGINEER — 8/22/00 DATE

DESIGNED DB
DRAWN KB
DATE 7/24/00



	MIN.	MAX.
D	1 5/8"	2 3/8"
E	5/8"	1 1/2"
F	7/16"	3/4"
G	7/8"	1 7/16"



ELEVATION

TRUNCATED DOMES (SEE NOTE 2)
DETECTABLE WARNING
PATTERN DETAIL

NOTES

1. AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREA.

2. THE DETECTABLE WARNING PATTERNS CAN BE CREATED BY ACCEPTABLE MEANS THAT WILL ACHIEVE THE TRUNCATED DOME DIMENSIONS AND SPACING SHOWN.

3. PLACE TRUNCATED DOME DETECTABLE WARNING TEXTURE IN THE LOWER 24" OF THE THROAT OF THE RAMP ONLY. ARRANGE DOMES USING IN-LINE PATTERN ONLY AS SHOWN. COLOR OF TEXTURE (COATING) SHALL BE SAFETY YELLOW IN COMPLIANCE WITH WSDOT STD. SPEC. OR AS INSTRUCTED BY COUNTY INSPECTOR.

4. FOR CONSTRUCTION OF SIDEWALK RAMPS OUTSIDE OF PUBLIC RIGHT-OF-WAY, CHECK WITH STATE BUILDING CODES.

NO.	REVISIONS	DATE	BY

DWG: F10.DWG

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

TRUNCATED DOME DETECTABLE WARNING PATTERN — STANDARD F10

APPROVED
Peter Capell
COUNTY ENGINEER — 01/01/04 DATE

PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 6/13/03

DESIGNED TG
DRAWN RK
CRP 330322
HOR. SEE SHEET
VERT. SEE SHEET
DATE 08/30/05
DWG: RD2
SHEET 24 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
It's the Law
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
22868
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

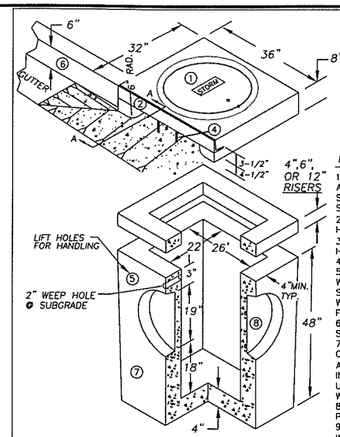
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
ROADWAY DETAILS

PRELIMINARY

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\RD1-2.dwg, 8/30/2005 10:00:50 AM, kerlinr



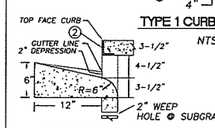
1. 24" CAST IRON LOCKING FRAME & COVER
2. 2 1/2"x3 1/2"x1/4"x 35 7/8" GALVANIZED ANGLE IRON
3. 2"x2 1/2"x1/4"x33" GALVANIZED ANGLE IRON
4. 2 EA. #4 TRASH BARS @ 9" O.C.
5. 2 EA. BASE UNIT LIFT HOLES
6. 6" CURB AND 12" GUTTERS
7. STANDARD TYPE 1 BASE UNIT
8. PIPE KNOCKOUTS ALL FOUR SIDES.

NOTES:

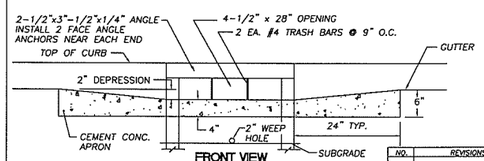
1. CURB INLET TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 & C890 UNLESS SHOWN ON PLANS OR NOTED IN STANDARD SPECIFICATIONS.
2. REINFORCING FOR INLET UNIT, 3 EA. #4 HORZONTAL BARS.
3. REINFORCING FOR TOP UNIT, 2 EA. #3 HORZONTAL BARS.
4. ALL REBAR TO MEET ASTM A615 GRADE 60.
5. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQAURE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497. WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
6. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4,000.
7. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
8. KNOCKOUTS OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS INLET WALL THICKNESS.
9. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAX. DIAM. OF 17".
10. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
11. ANY PROTUDING ENDS OF PIPES SHALL BE TRIMMED FLUSH WITH THE INSIDE WALLS AND GROUTED TO THE SATISFACTION OF ENGINEER.
12. GUTTER IS TAPERED DOWN TO INLET.
13. INSTALL REMOVABLE APWA TYPE 60A TRAP OR EQUAL, SEE STD. PLAN D2.1.
14. CONTRACTOR SHALL HAVE THE OPTION OF FURNISHING PRECAST OR CAST-IN-PLACE INLET STRUCTURES, UNLESS SPECIFIED.

TYPE 1 CURB INLET

NTS



SECTION A-A



FRONT VIEW

NO.	REVISIONS	DATE	BY

DWG: D2-0.DWG

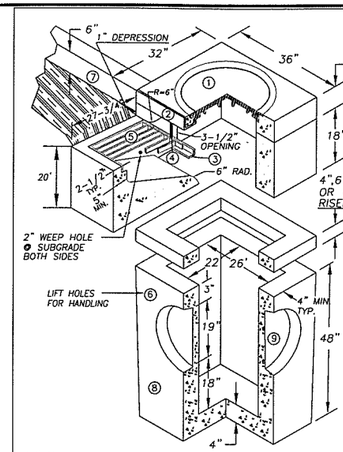
Department of Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future

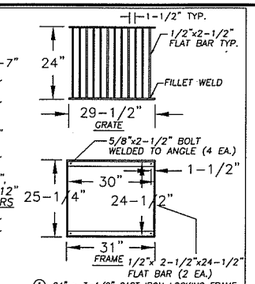
STANDARD TYPE 1 CURB INLET

APPROVED

Peter Capen
COUNTY ENGINEER
01/01/04
DATE

STANDARD D2.0
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 09/09/02





1. 24" x 3-1/2" CAST IRON LOCKING FRAME & COVER
2. 2-1/2"x3-1/2"x1/4"x 35 7/8" GALVANIZED ANGLE IRON
3. 2-1/2"x2-1/2"x3/8" FRAME GALVANIZED ANGLE IRON
4. 2 EA. #4 TRASH BARS @ 8" O.C.
5. 1/2"x2-1/2" FLAT BAR GALVANIZED GRATE
6. 2 EA. BASE UNIT LIFT HOLES
7. 6" CURB AND 12" GUTTERS
8. STANDARD TYPE 1 BASE UNIT
9. PIPE KNOCKOUTS ALL FOUR SIDES.

NOTES

1. COMBINATION CURB INLET TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 & C890 UNLESS SHOWN ON PLANS OR NOTED IN STANDARD SPECIFICATIONS.
2. REINFORCING FOR INLET UNIT, 3 EA. #4 HORZONTAL BARS; REINFORCING FOR TOP UNIT, 2 EA. #3 HORZONTAL BARS: REINFORCING FOR INLET SLOPED BASE, 4x4 MESH.
3. ALL REBAR TO MEET ASTM A615 GRADE 60.
4. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQAURE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497. WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
5. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4,000.
6 PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
7. KNOCKOUTS OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS INLET WALL THICKNESS.
8. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAX. DIAM. OF 17".
9. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
10. ANY PROTUDING ENDS OF PIPES SHALL BE TRIMMED FLUSH WITH THE INSIDE WALLS AND GROUTED TO THE SATISFACTION OF ENGINEER.
11. GRATE TO HAVE 1" DEPRESSION AT GUTTER INLET WITH GUTTER TO BE TAPERED DOWN TO INLET.
12. INSTALL REMOVABLE APWA TYPE 60A TRAP OR EQUAL. SEE STD. PLAN D2.1.
13. CONTRACTOR SHALL HAVE THE OPTION OF FURNISHING PRECAST OR CAST-IN-PLACE INLET STRUCTURES, UNLESS SPECIFIED.
14. SEE STD. PLAN 4.1 FOR BASIN GUTTER PAN DETAIL.

NO.	REVISIONS	DATE	BY

DWG: D3-0.DWG

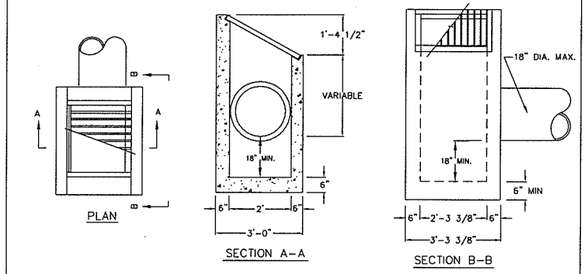
Department of Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future

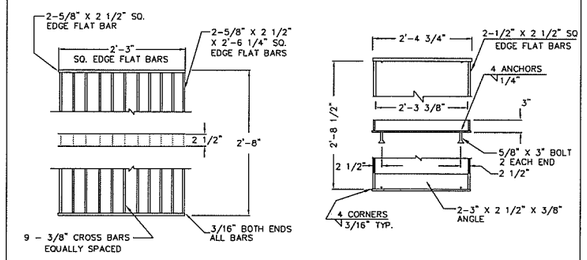
STANDARD TYPE 1 COMBINATION CURB INLET

APPROVED

Peter Capen
COUNTY ENGINEER
01/01/04
DATE

STANDARD D3.0
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 09/09/02





NOTES:

1. DITCH INLET CONSTRUCTION IN ACCORDANCE WITH ASTM C-478
2. CATCH BASIN, FRAME, AND GRATES SHALL BE FLAT BAR STEEL OR APPROVED EQUAL.
3. INSIDE FRAME DIMENSIONS: 2'-3 3/8"x 2'-8 1/2"".
4. 3/8" CROSS BARS SHALL BE FLUSH WITH THE GRATE SURFACE AND MAY BE FILLET WELDED. RESISTANCE WELDED OR ELECTROFORGED TO BEARING BARS.

NO.	REVISIONS	DATE	BY

DWG: D6.DWG

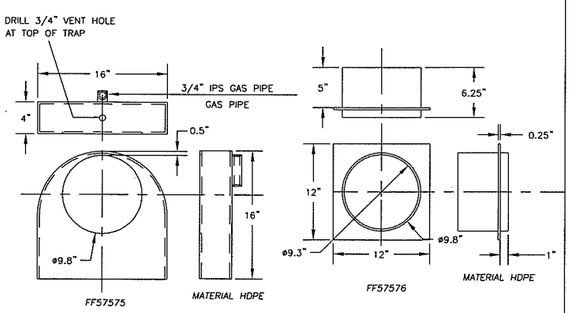
Department of Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future

DITCH INLET

APPROVED

Peter Capen
COUNTY ENGINEER
01/01/04
DATE

STANDARD D6
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 09/17/02



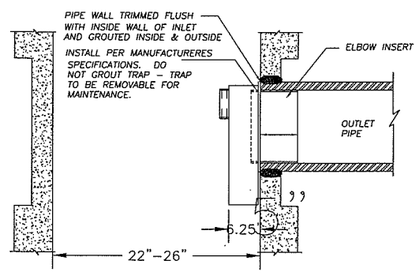
LOW PROFILE ELBOW

NTS

ELBOW INSERT

NTS

ZYMARK BRAND OR EQUIVALENT



NO.	REVISIONS	DATE	BY

DWG: D2-1.DWG

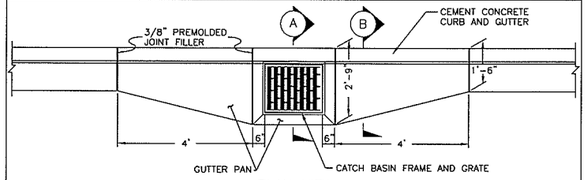
Department of Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future

CATCH BASIN OUTLET PIPE TRAP

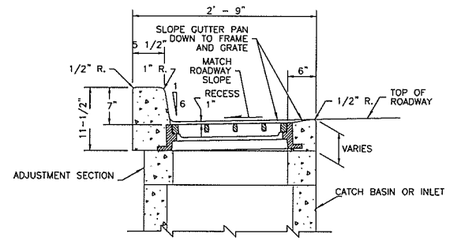
APPROVED

Peter Capen
COUNTY ENGINEER
01/01/04
DATE

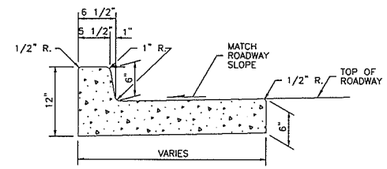
STANDARD D2.1
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 09/23/02



PLAN VIEW
CATCH BASIN GUTTER PAN



SECTION (A)



SECTION (B)

NO.	REVISIONS	DATE	BY

DWG: D4-1.DWG

Department of Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future

CATCH BASIN GUTTER PAN

APPROVED

Peter Capen
COUNTY ENGINEER
01/01/04
DATE

STANDARD D4.1
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 07/07/03

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	DD1
SHEET	25 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON
THOMAS D. GRANGE
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

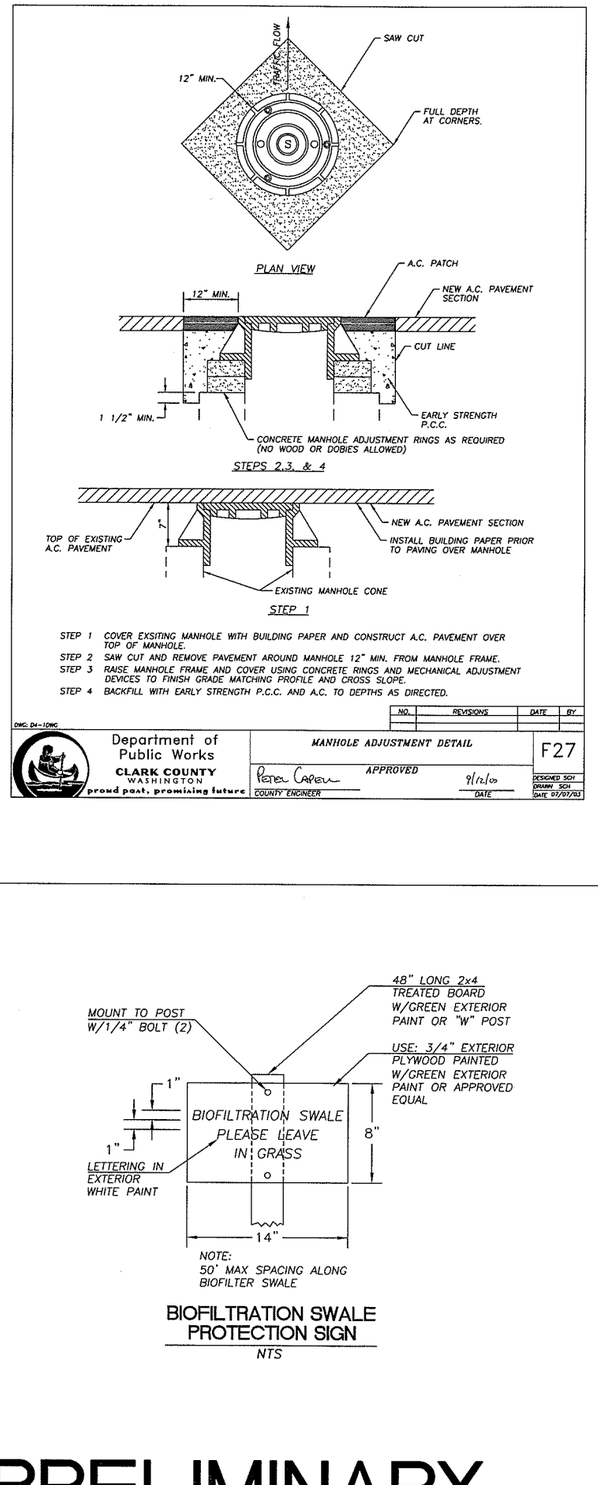
ENGINEERING PROGRAM
DESIGN SECTION

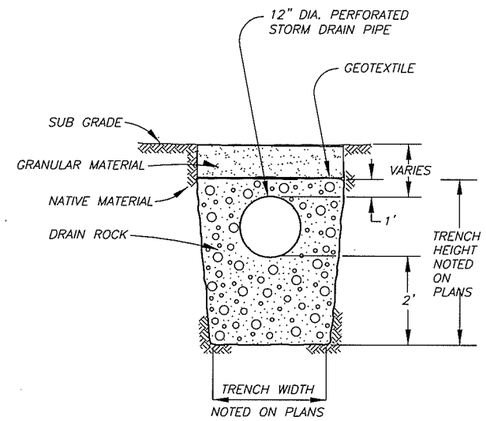
SALMON CREEK INTERCHANGE PROJECT

DRAINAGE DETAILS

proud past, promising future
CLARK COUNTY
WASHINGTON

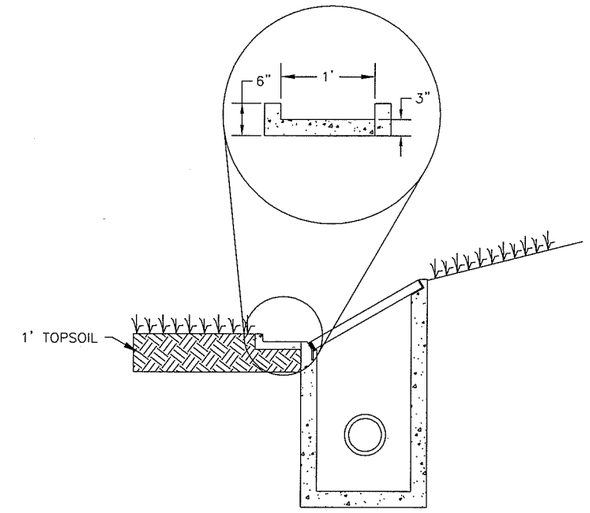
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\DD1-2.dwg, 8/30/2005 10:02:09 AM, kerlinr





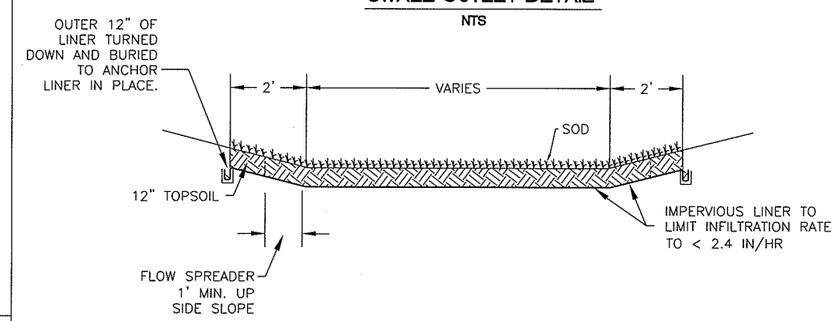
UNDERDRAIN PIPE DETAIL

NTS



SWALE OUTLET DETAIL

NTS



BIOFILTRATION SWALE

NTS

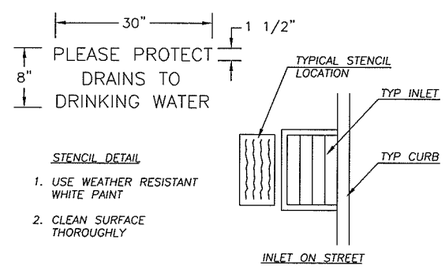
NOTES

1. TOP SOIL TO BE TYPE A. (INCL IN PAYMENT OF SWALE).
2. INSTALL SOD ON SWALE BOTTOM AND A MINIMUM 2' ON EACH SIDE
3. SWALE VEGETATION TO BE WELL ESTABLISHED PRIOR TO PAVING.
4. SEED MIX FOR BIOFILTRATION SWALE

PERENNIAL RYEGRASS	20%
KENTUCKY BLUEGRASS	30%
TALL FESCUE, ALTA FESCUE	30%
RED FESCUE	20%

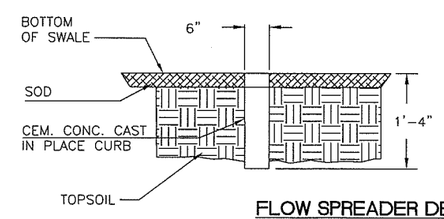
BIOFILTRATION SWALE PROTECTION SIGN

NTS



INLET STENCIL DETAIL

NTS



FLOW SPREADER DETAIL

NOTES:

1. POUR SPREADER LEVEL AND FLUSH WITH SWALE BOTTOM TO PROVIDE UNIFORM DISTRIBUTION OF FLOW OVER THE TOP THE SPREADER.
2. EMBED SPREADER 1' INTO SIDESLOPES

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	DD2
SHEET	26 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

LARRY S. D. GRANGE STATE OF WASHINGTON 37058 PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

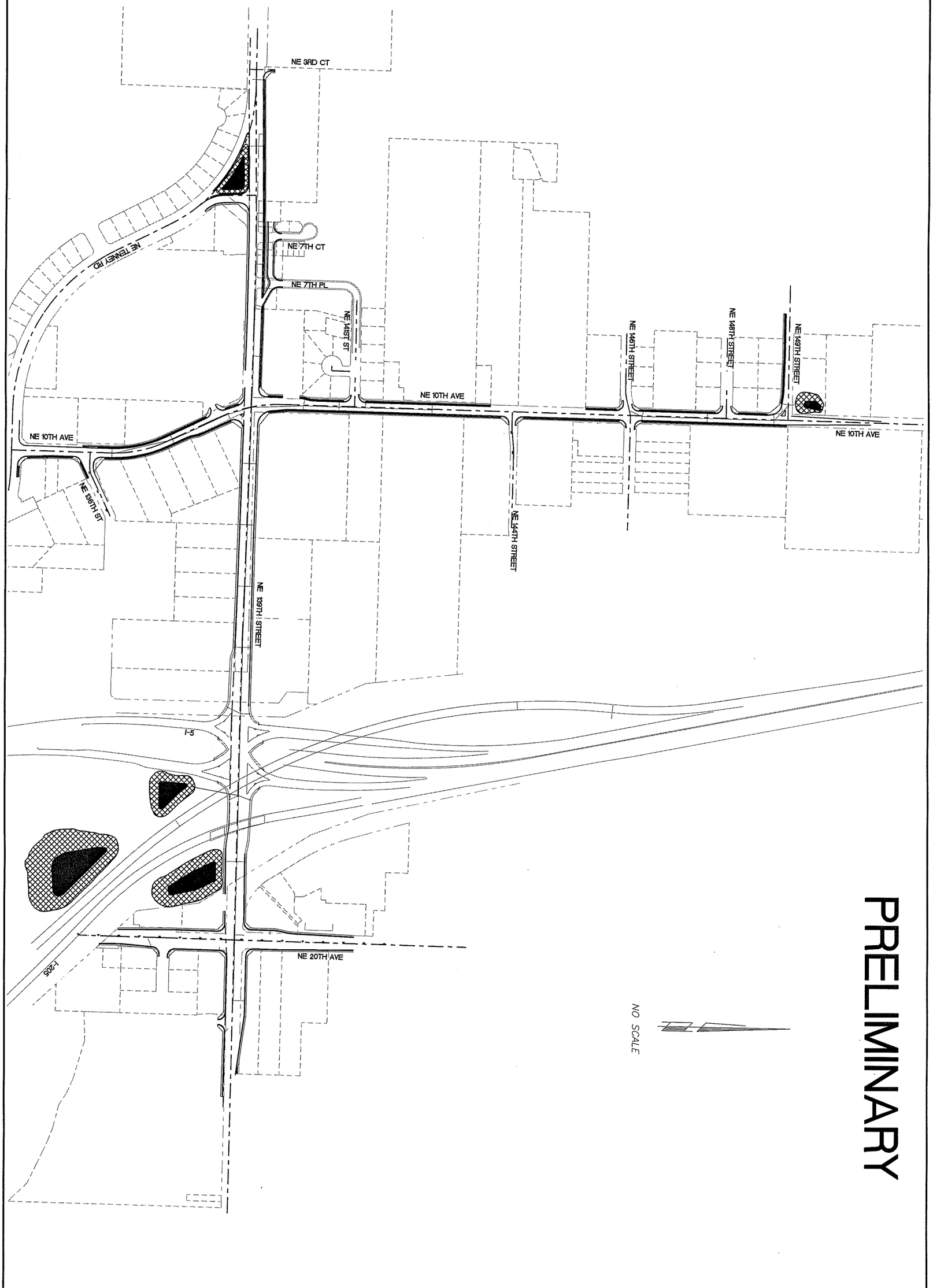
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

DRAINAGE DETAILS

proud past, promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\DD1-2.dwg, 8/30/2005 10:03:49 AM, kerlinr



CLARK COUNTY
WASHINGTON
proud past, promising future

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
CONCEPTUAL STORMATER FACILITY LOCATIONS

THOMAS D. GRANGE
STATE OF WASHINGTON
13048
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	SWF1
SHEET	27 OF XX

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PPLAY
SHEET	28 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 28, 2006

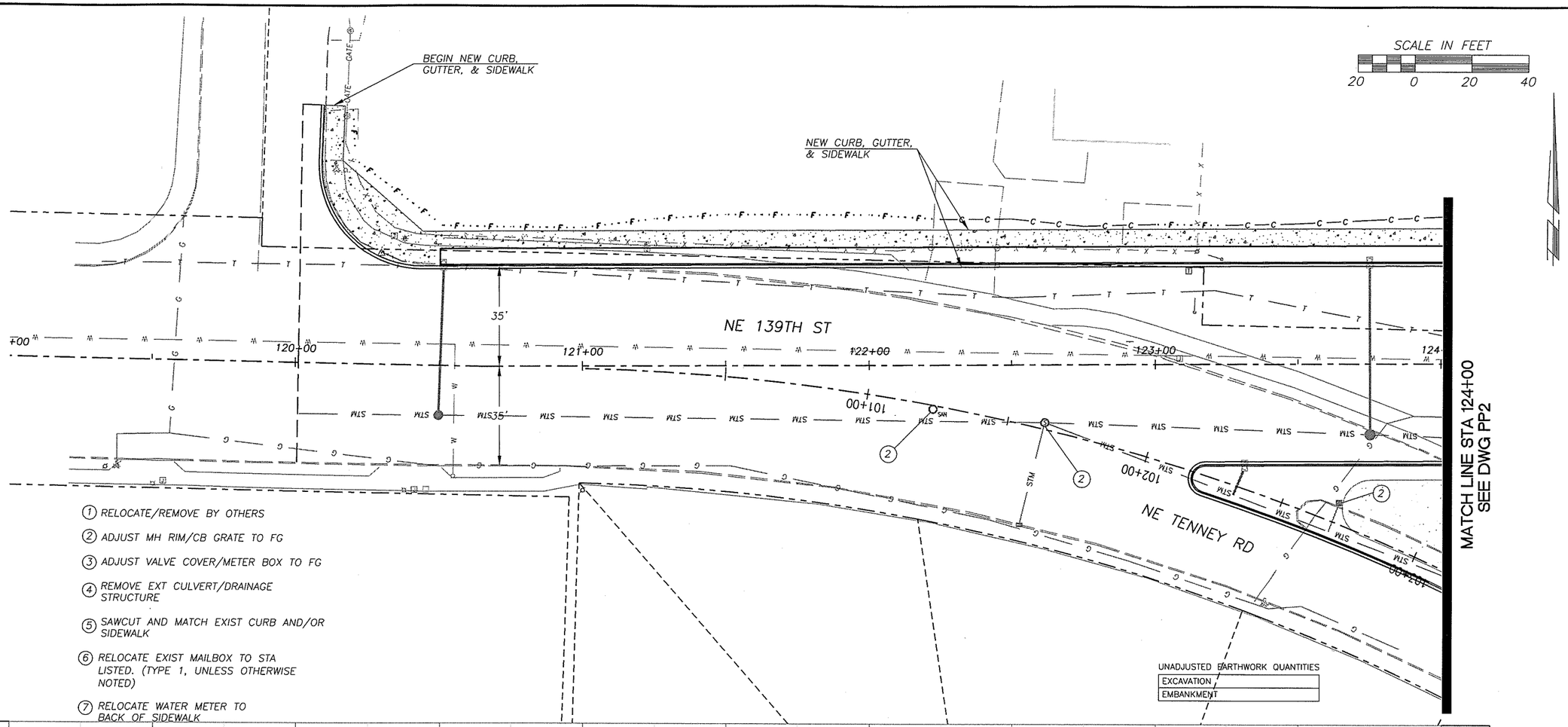
ENGINEERING PROGRAM
DESIGN SECTION

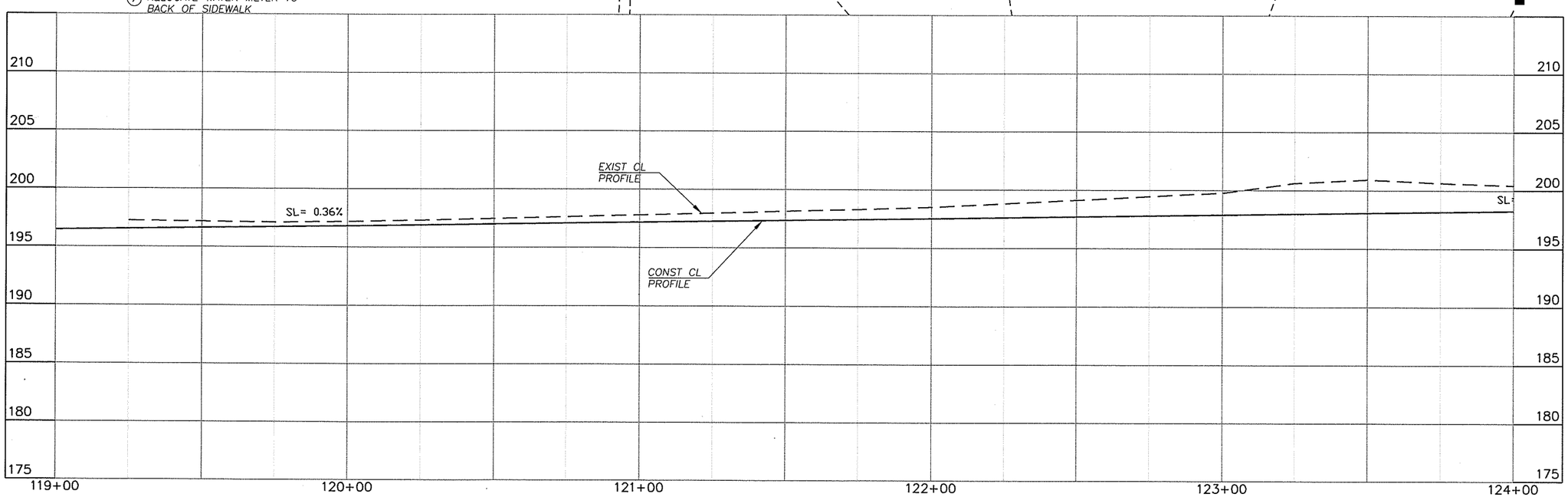
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE LAYOUT

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PPLAYOUT.dwg, 8/31/2005 10:42:15 AM, kerlinr





DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP1
SHEET	29 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON
STEVEN D. GRANGE
STATE REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

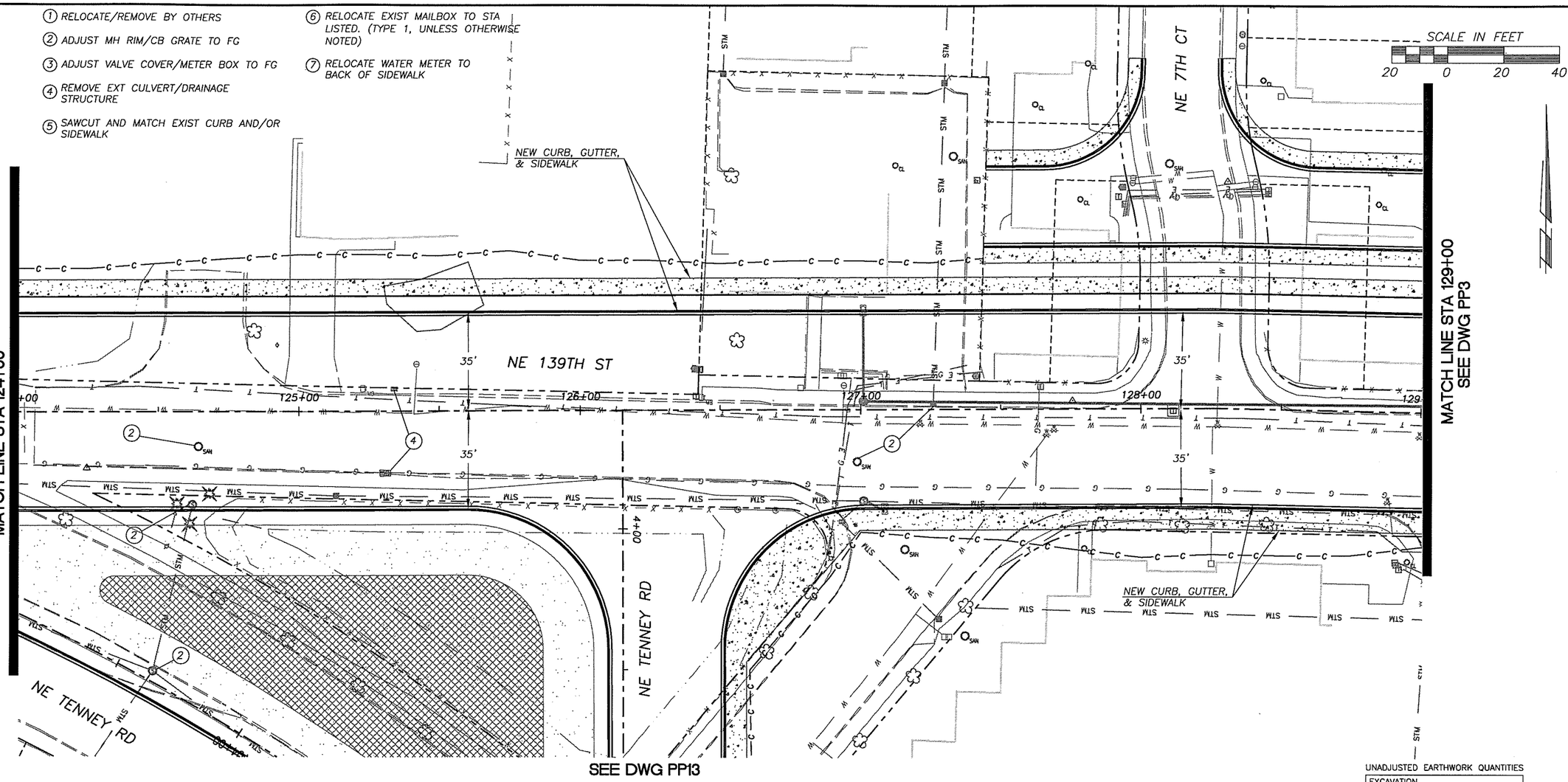
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 119+00 TO 124+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

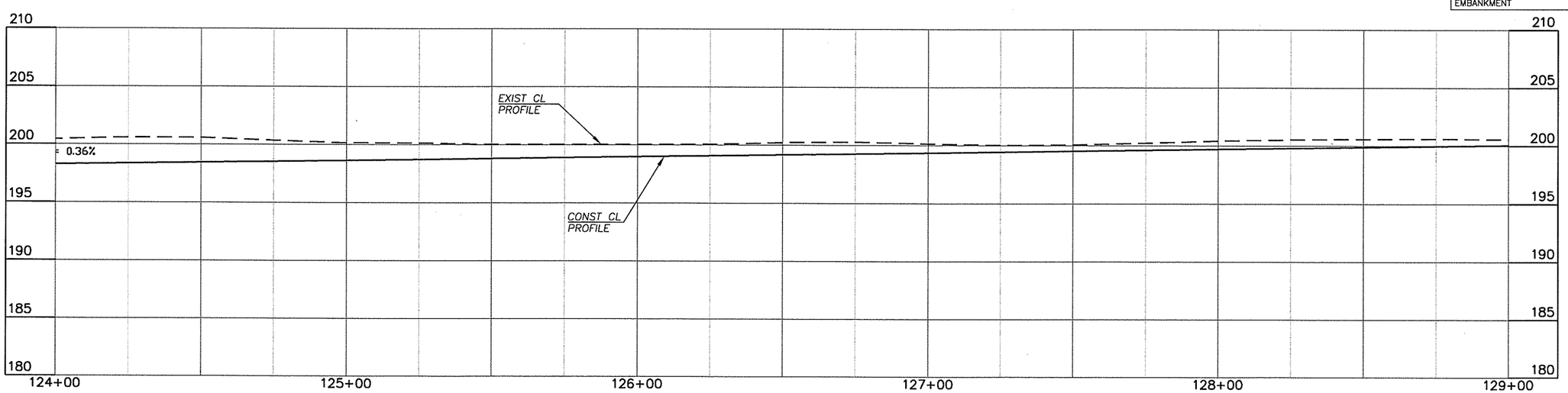
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP1.dwg, 8/30/2005 11:41:24 AM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP2
SHEET	30 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 37066 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM DESIGN SECTION

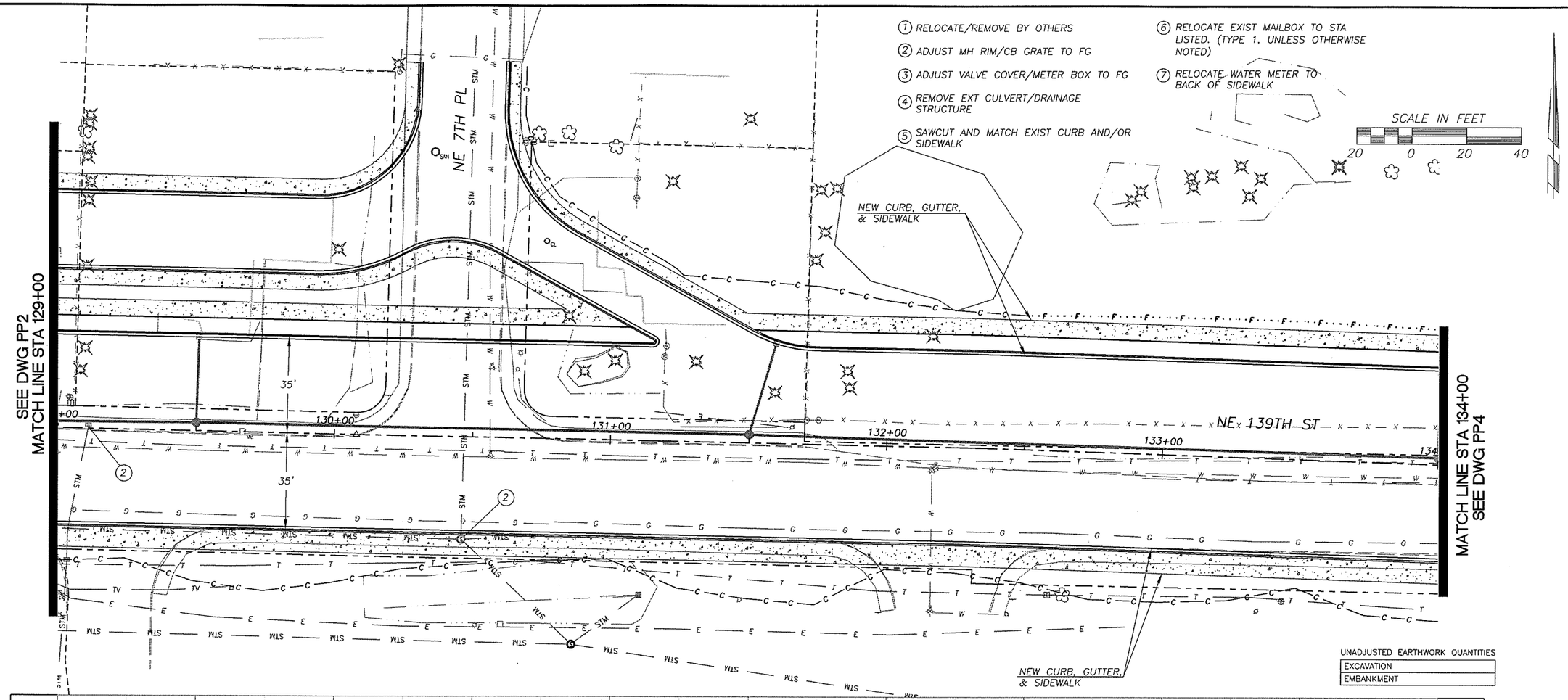
SALMON CREEK INTERCHANGE PROJECT

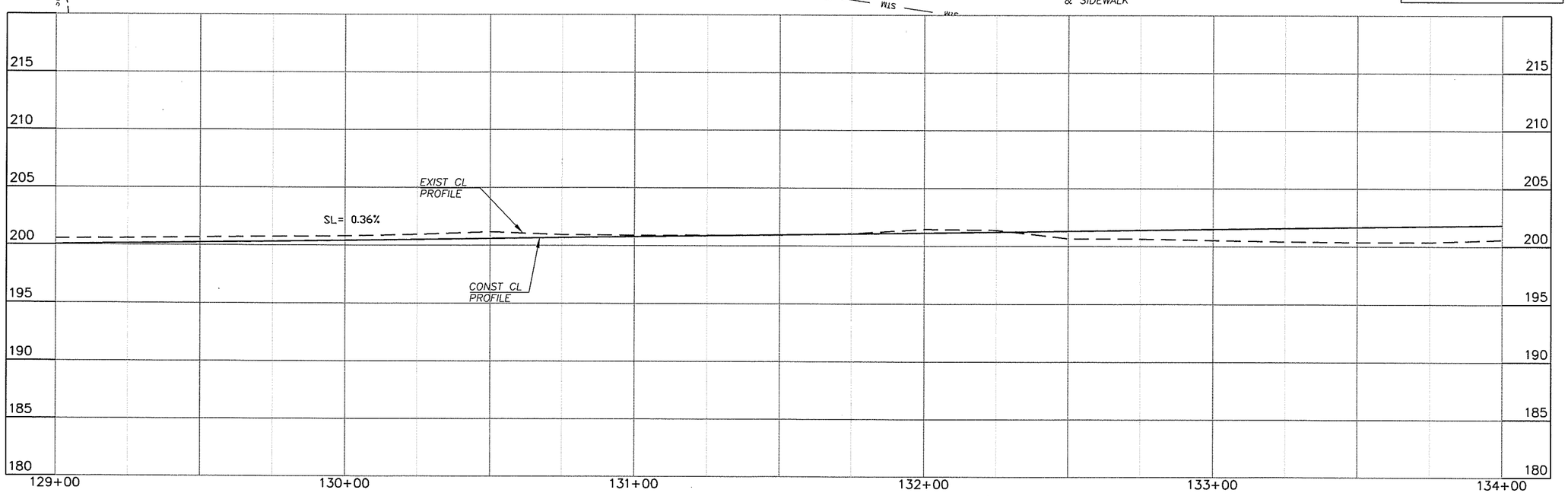
PLAN & PROFILE - 139TH (STA 124+00 TO 129+00)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP2.dwg, 8/30/2005 11:41:44 AM, kerlinr





DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP3
SHEET	31 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 32058 PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM DESIGN SECTION

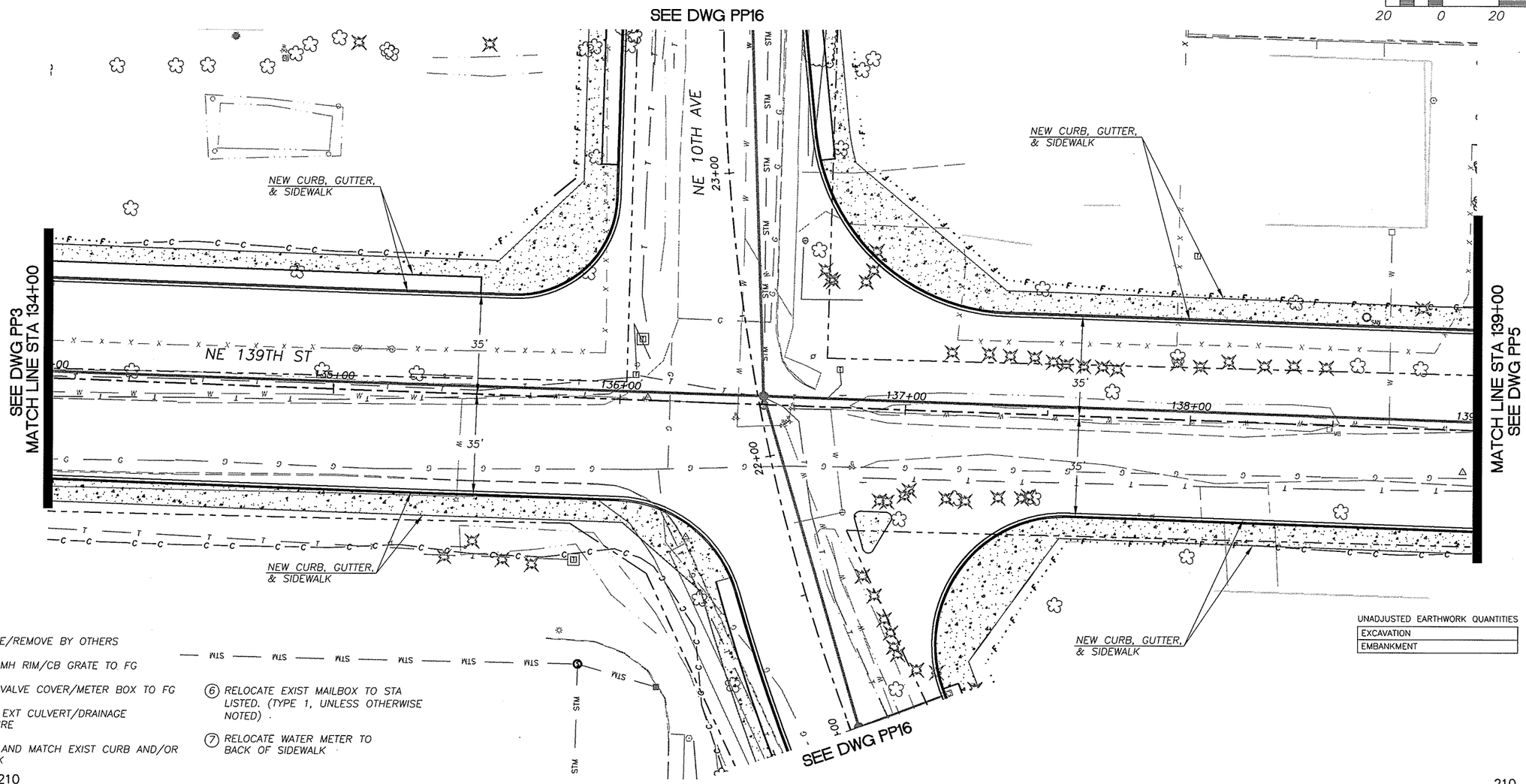
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 129+00 TO 134+00)

proud past, promising future

CLARK COUNTY WASHINGTON

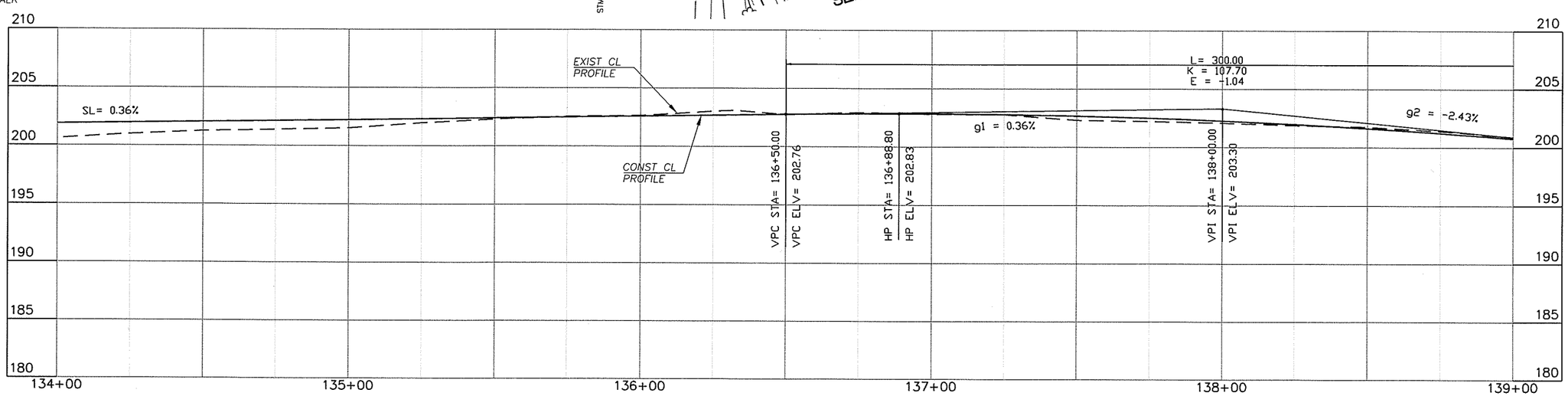
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP3.dwg, 8/30/2005 11:42:07 AM, kerlinr



1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP4
SHEET	32 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 37058 REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

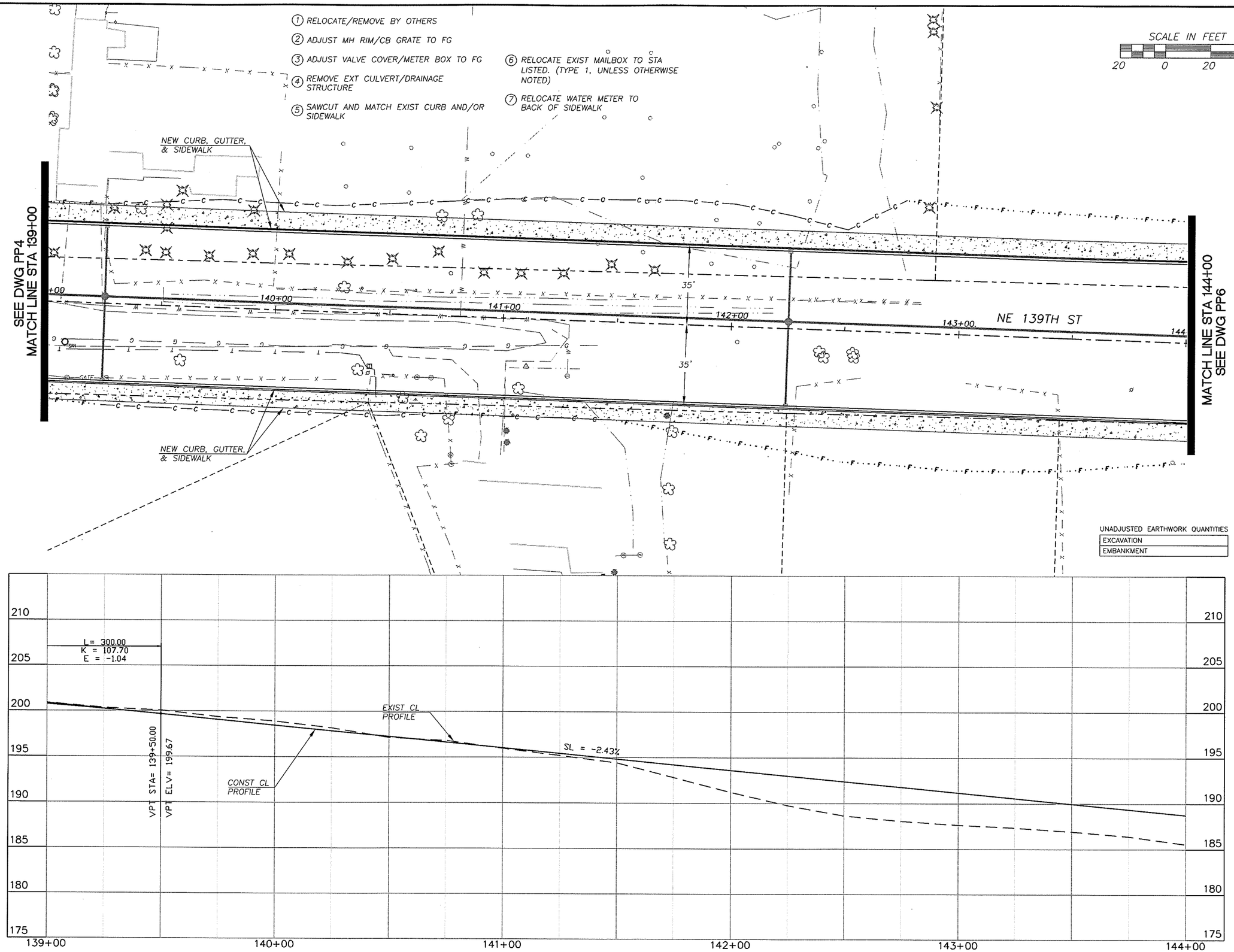
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE – 139TH (STA 134+00 TO 139+00)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP4.dwg, 8/30/2005 11:42:30 AM, kerlinr



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP5
SHEET	33 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANDE
STATE OF WASHINGTON
23006
REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

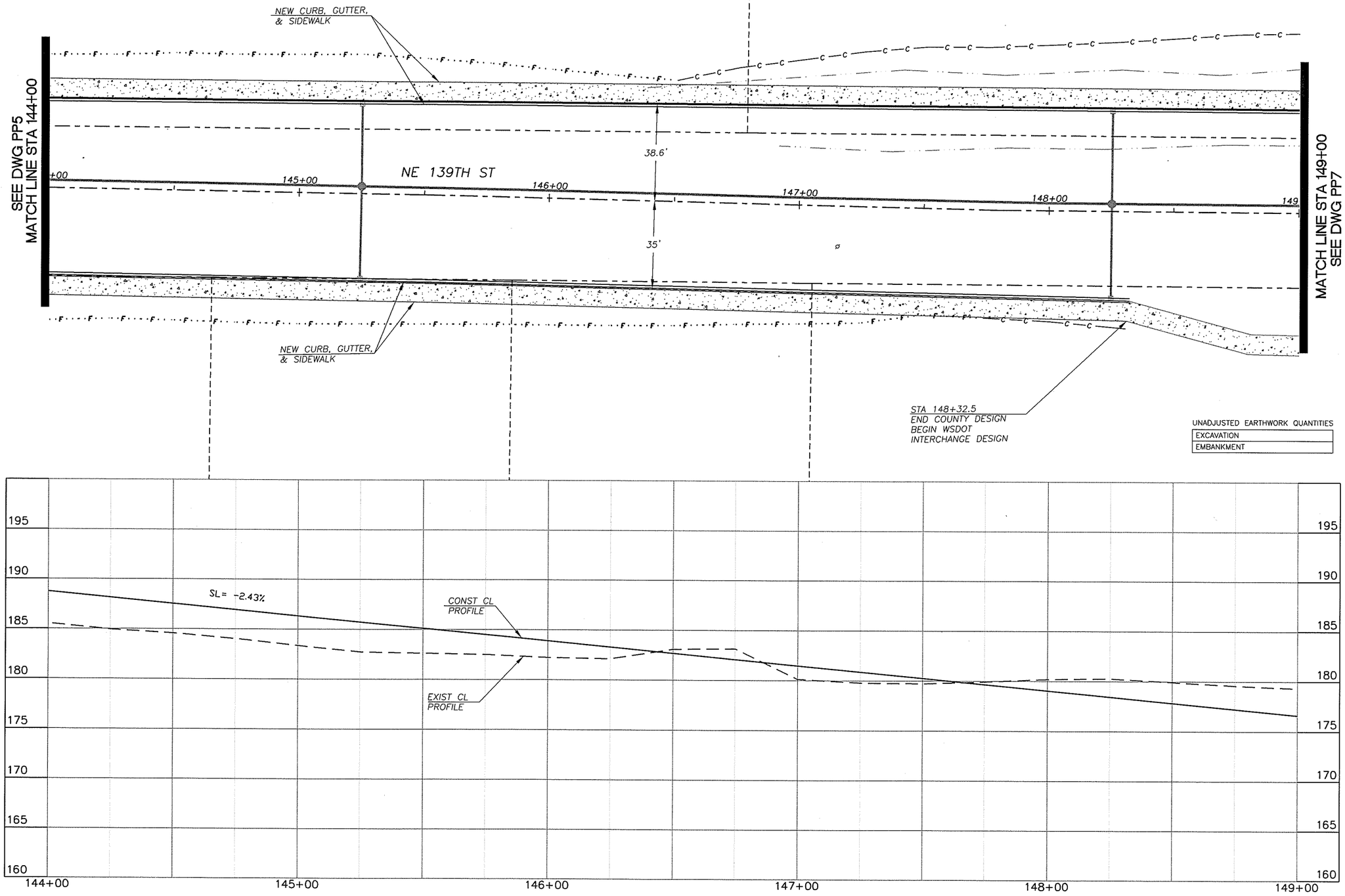
PLAN & PROFILE - 139TH (STA 139+00 TO 144+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP5.dwg, 8/30/2005 11:42:50 AM, kettlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

SCALE IN FEET
20 0 20 40



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION
EMBANKMENT

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP6
SHEET	34 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

LARRY D. GRANGE STATE OF WASHINGTON 37088 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM DESIGN SECTION

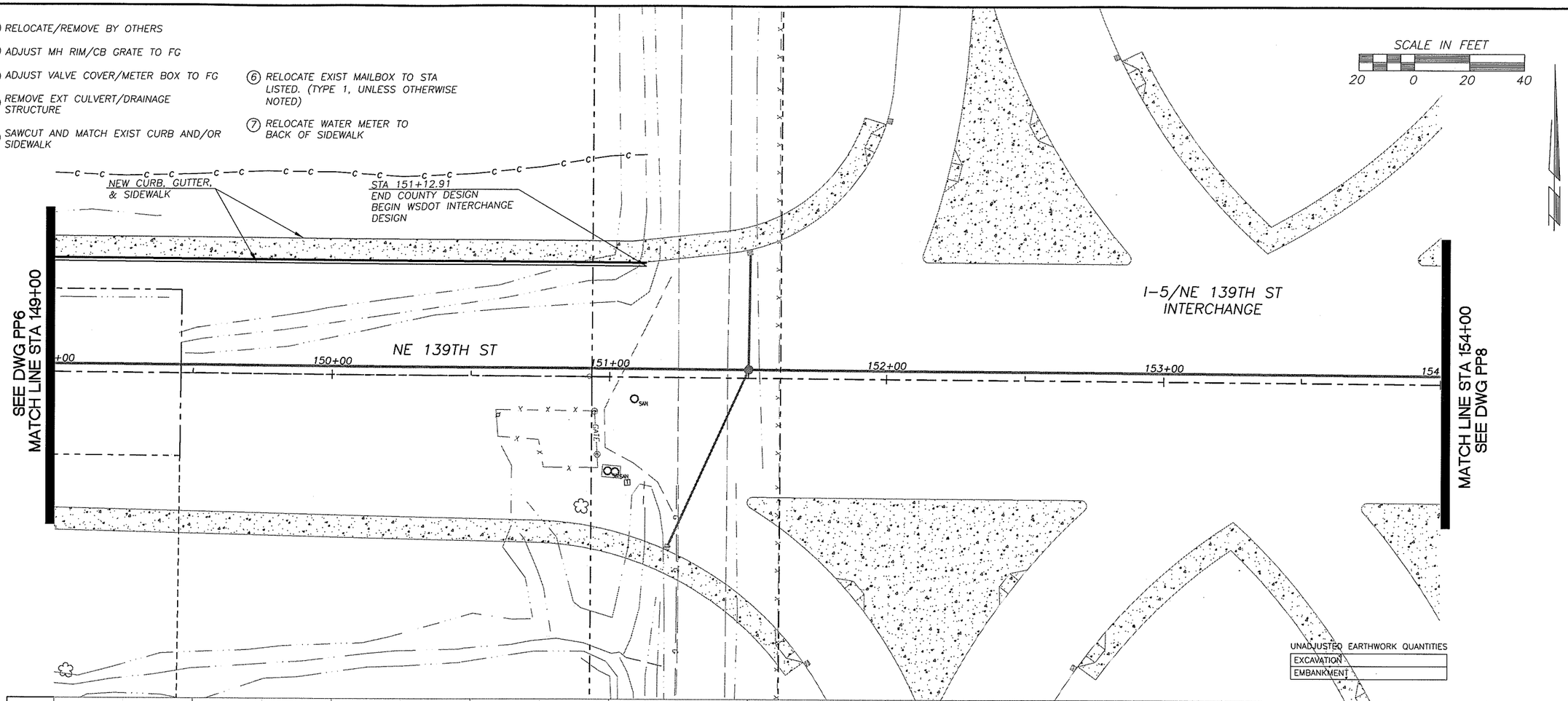
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 144+00 TO 149+00)

proud past, promising future
CLARK COUNTY WASHINGTON

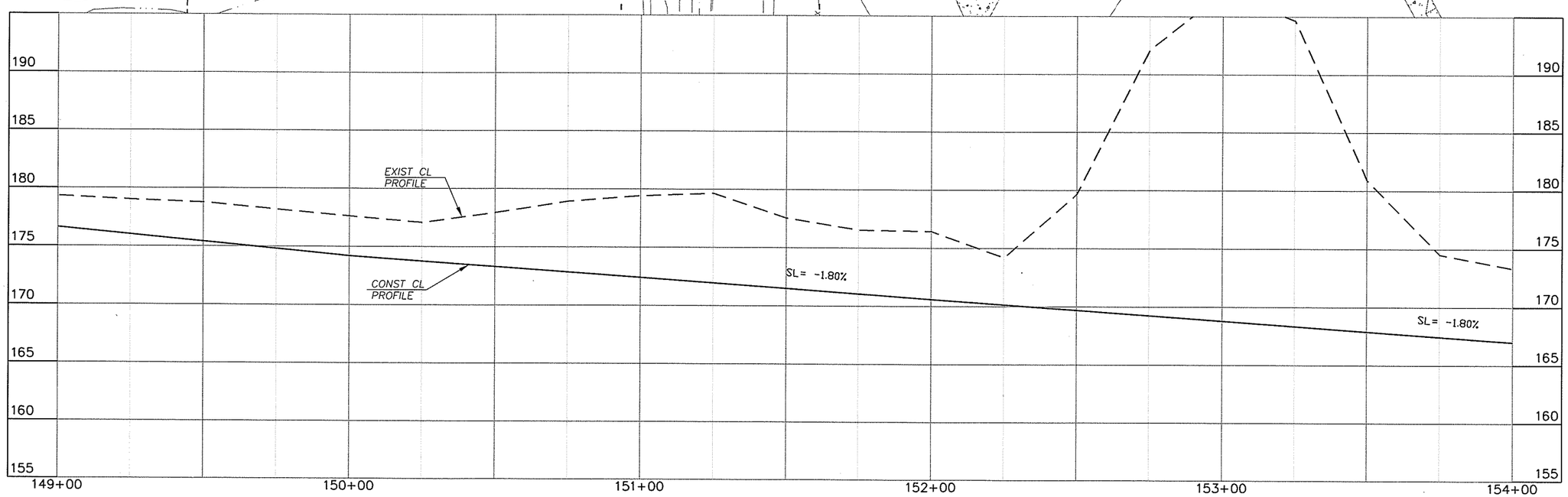
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP6.dwg, 8/30/2005 11:43:13 AM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP7
SHEET	35 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 27708 REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

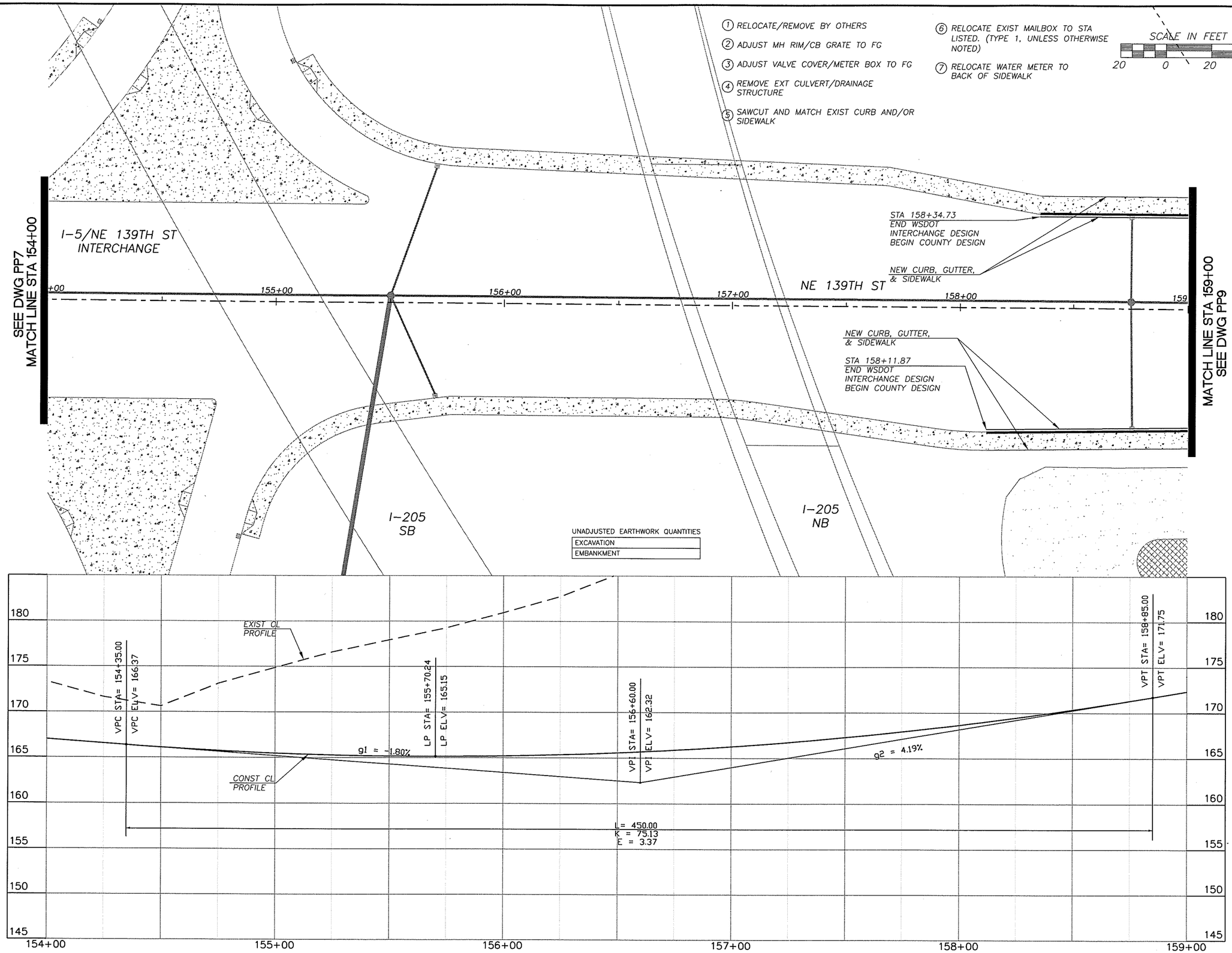
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 149+00 TO 154+00)

proud past, promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP7.dwg, 8/30/2005 11:43:36 AM, kerlinr



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP8
SHEET	36 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
37058
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

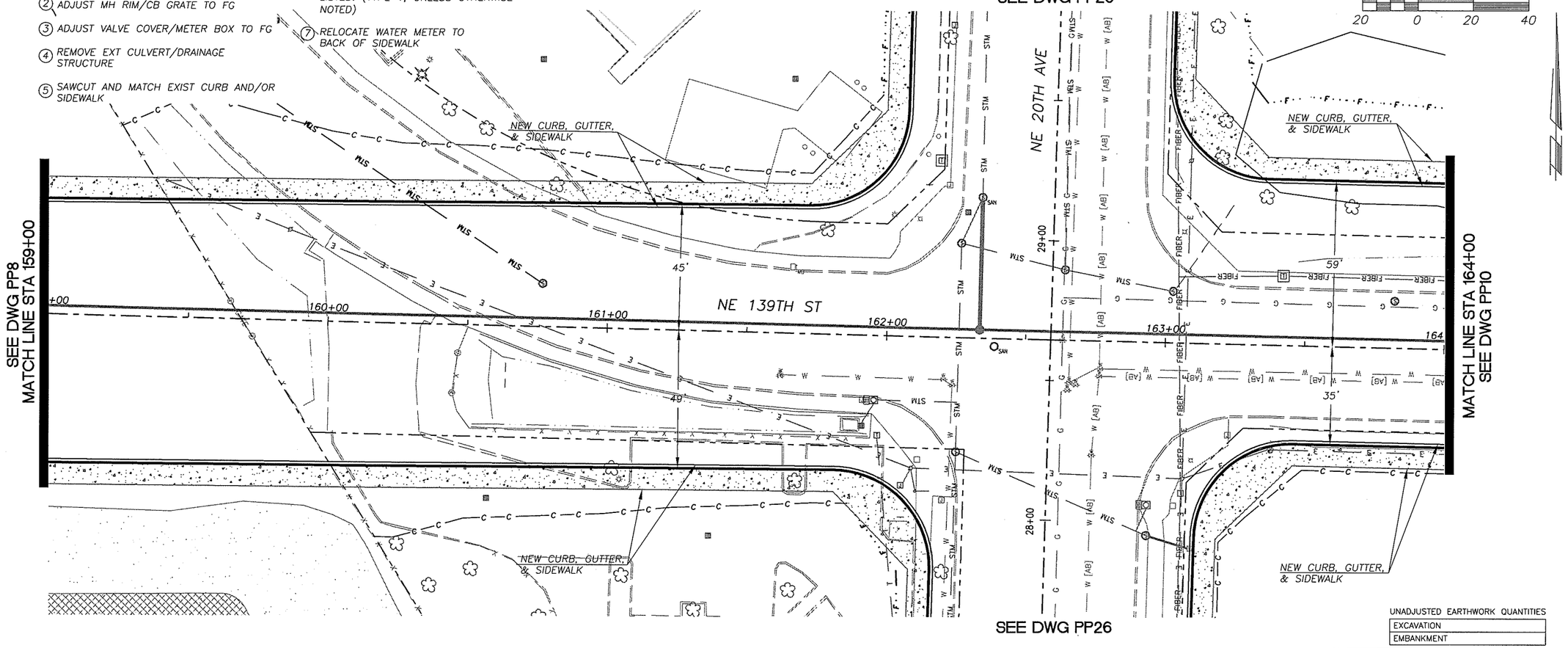
PLAN & PROFILE - 139TH (STA 154+00 TO 149+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP8.dwg, 8/31/2005 8:33:17 AM, kerlinr

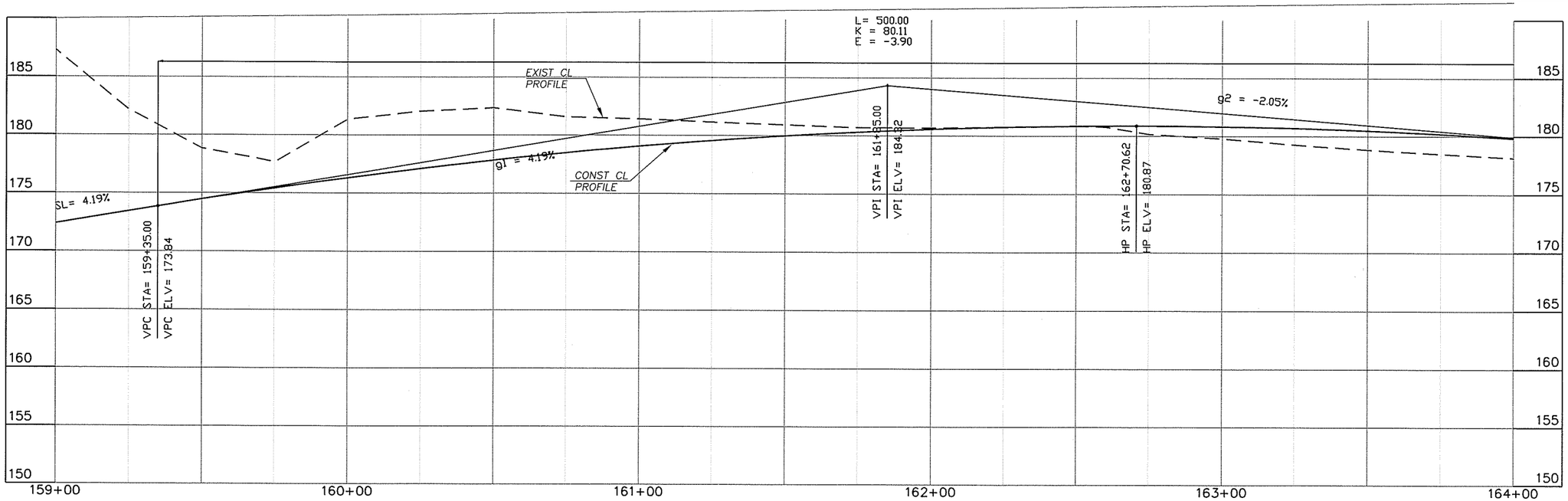
1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

SCALE IN FEET
20 0 20 40



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG.	PP9
SHEET	37 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON THOMAS D. GRANGE 22288 REGISTERED PROFESSIONAL ENGINEER EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM DESIGN SECTION

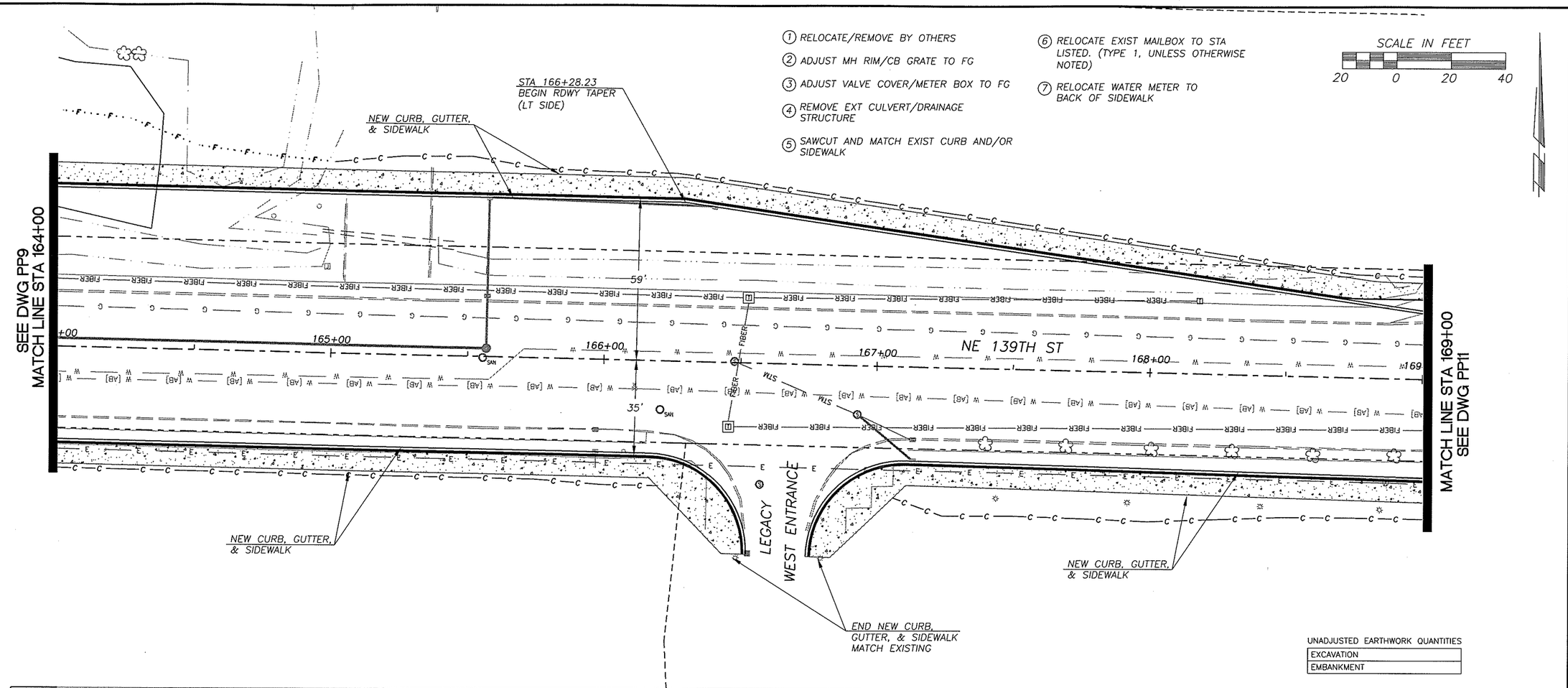
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 159+00 TO 164+00)

proud past, promising future

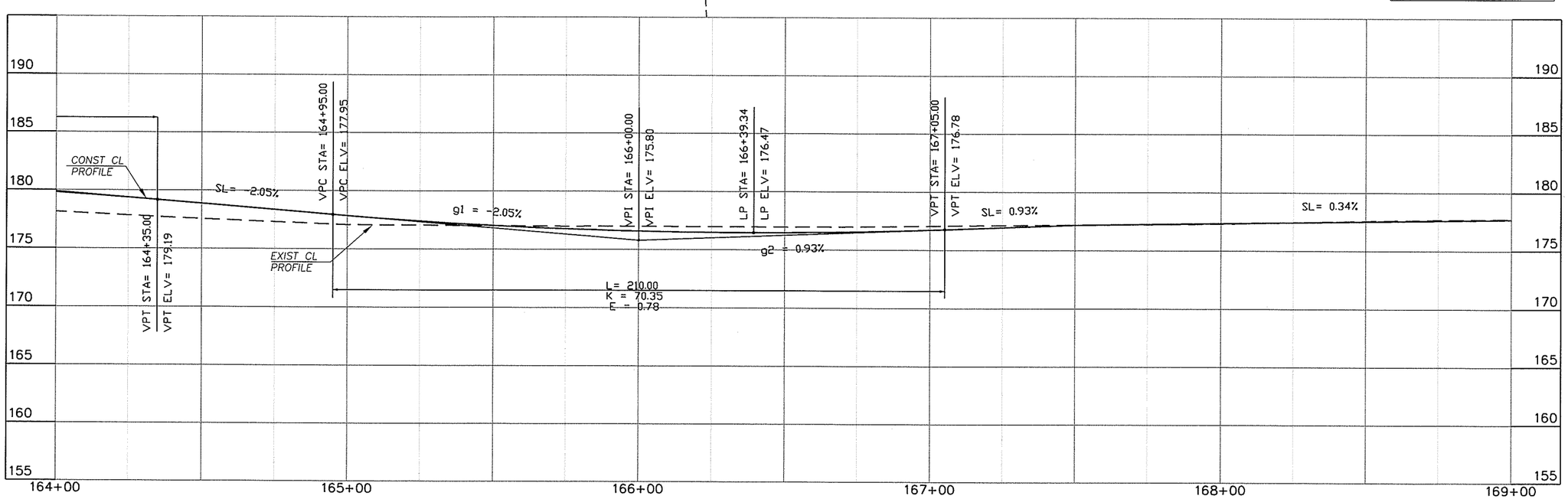
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP9.dwg, 8/30/2005 11:44:21 AM, kerlinr



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP10
SHEET	38 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
17058
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 164+00 TO 169+00)

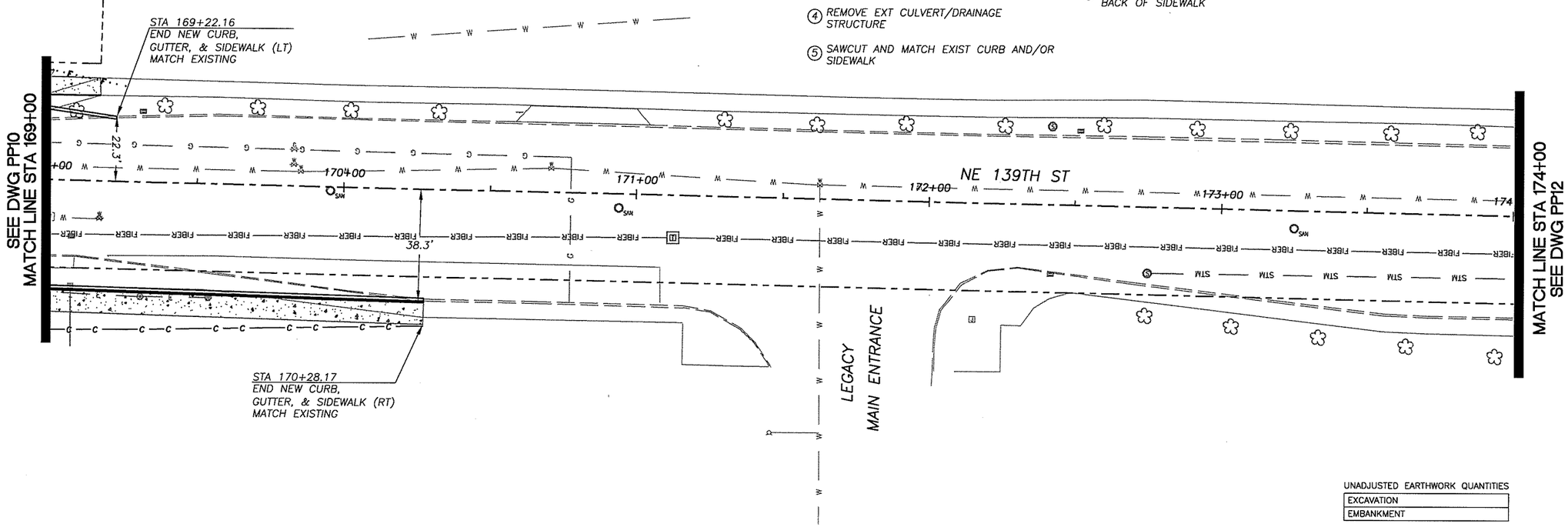
proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP10.dwg, 8/31/2005 8:49:31 AM, kerlinr

SCALE IN FEET

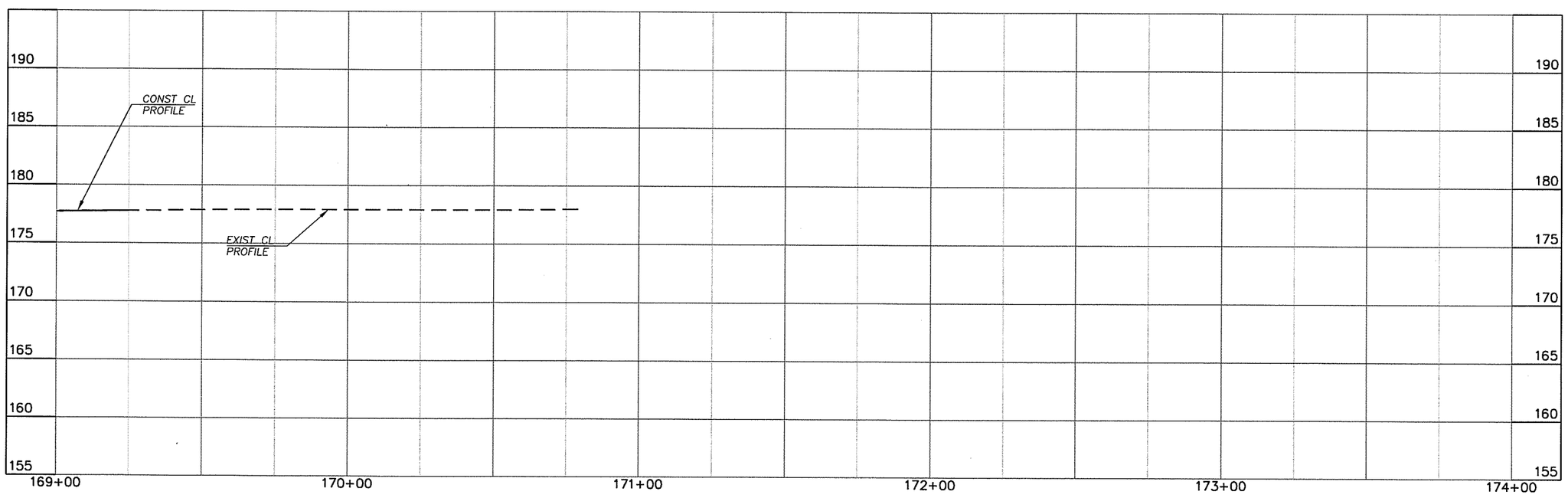
20 0 20 40

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION
EMBANKMENT



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP11
SHEET	39 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

STEPHEN D. GRANGE STATE OF WASHINGTON 35023 PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

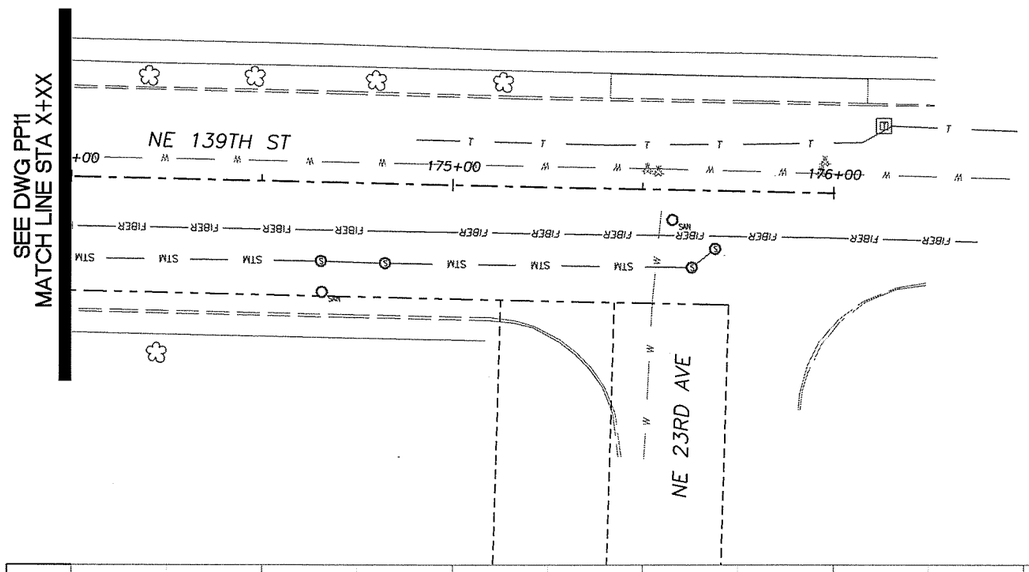
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 169+00 TO 174+00)

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP11.dwg, 8/31/2005 8:49:55 AM, kerlinr

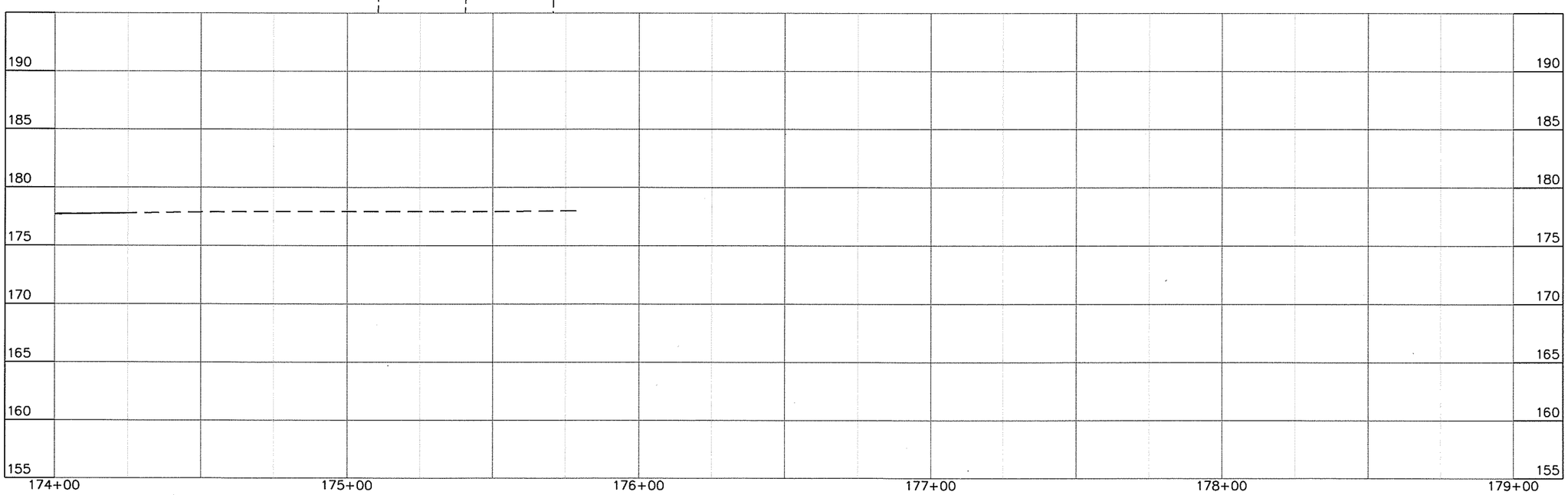


SCALE IN FEET

20 0 20 40

UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION
EMBANKMENT



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP12
SHEET	40 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

LARRY D. GRANGE
STATE OF WASHINGTON
32056
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

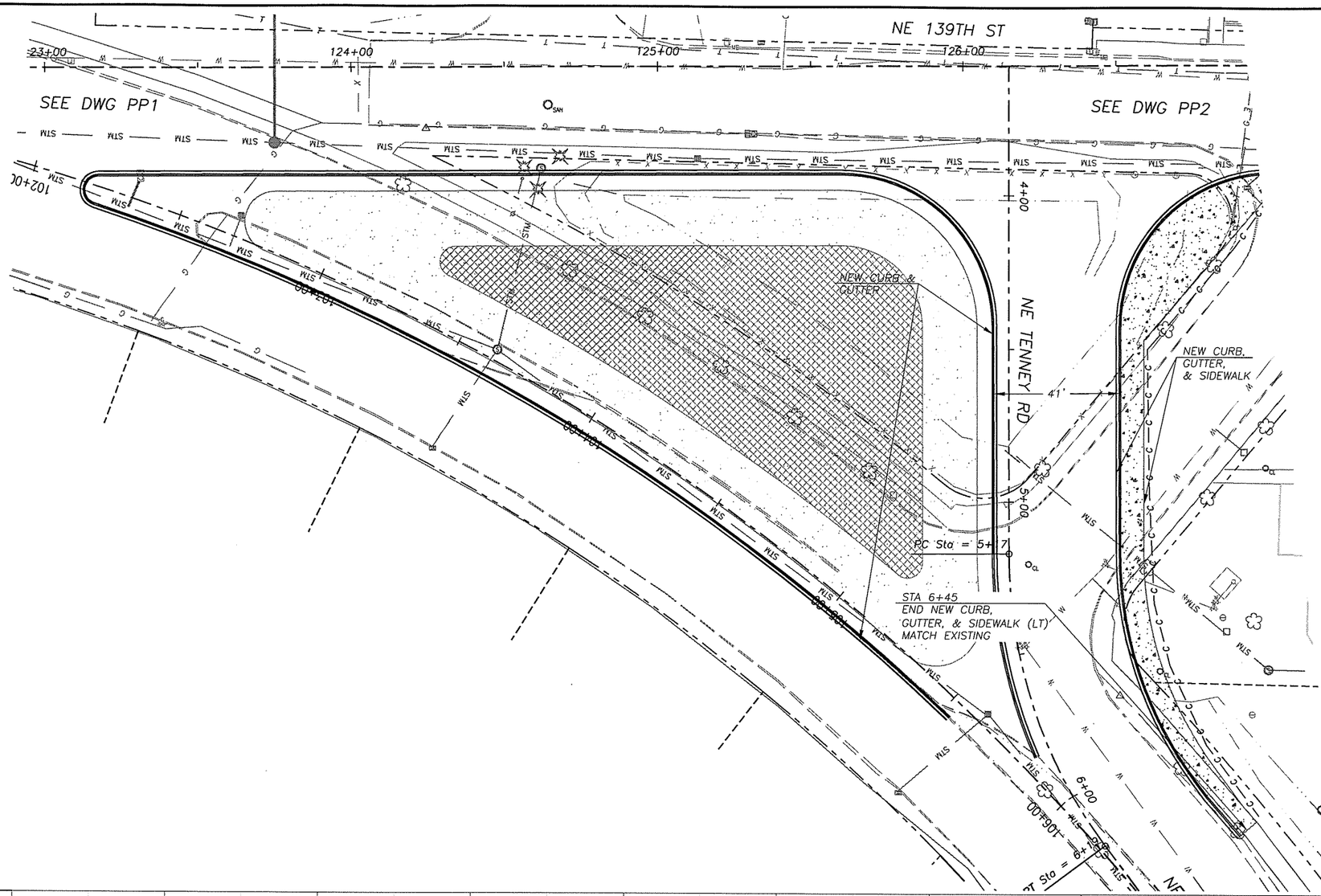
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 139TH (STA 174+00 TO E.O.P.)

proud past, promising future

CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP12.dwg, 8/30/2005 11:45:26 AM, kerlinr



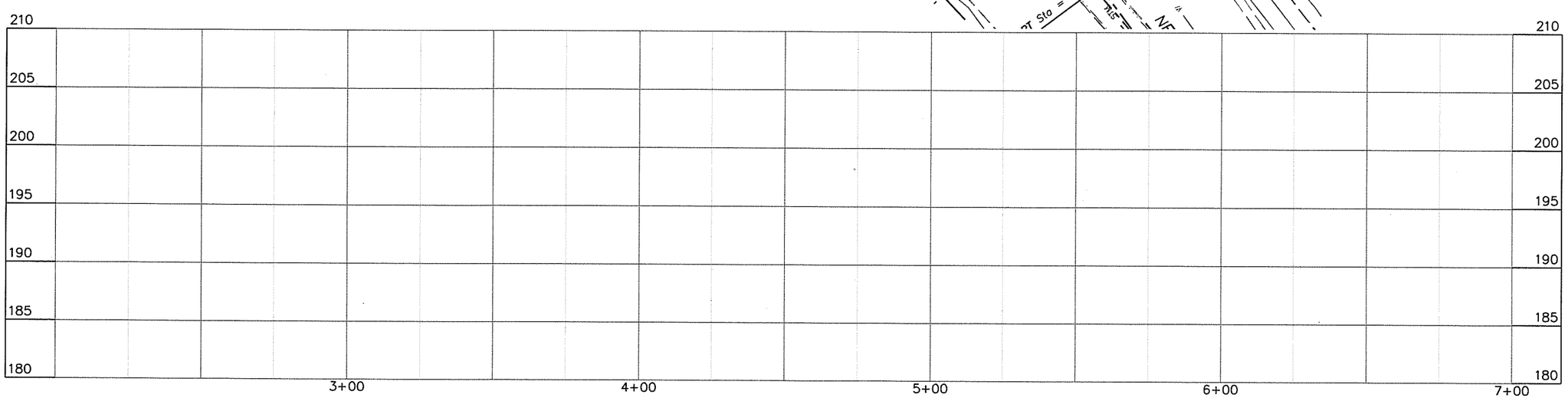
SCALE IN FEET

20 0 20 40

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP13
SHEET	41 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 19884 PROFESSIONAL ENGINEER REGISTERED EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

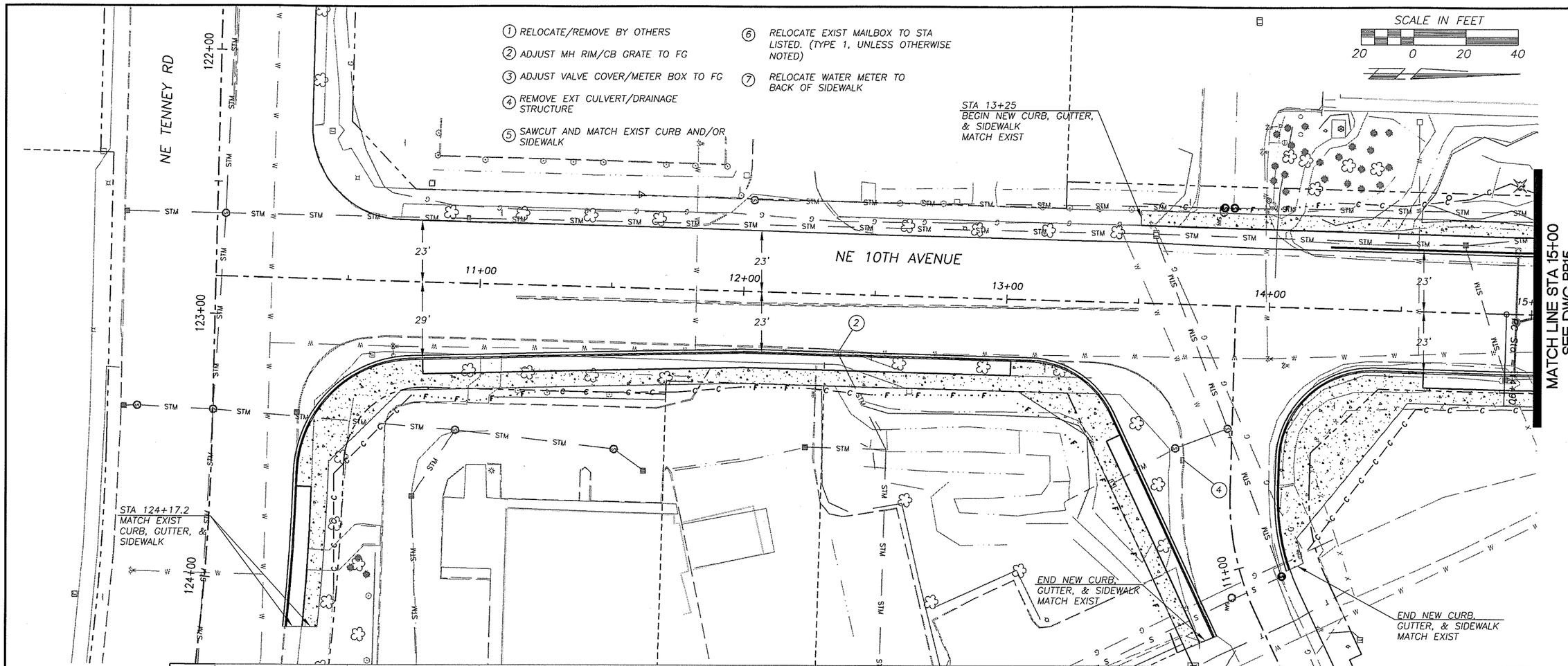
PLAN & PROFILE – TENNEY (STA 3+57.69 TO E.O.P.)

proud past, promising future

CLARK COUNTY WASHINGTON

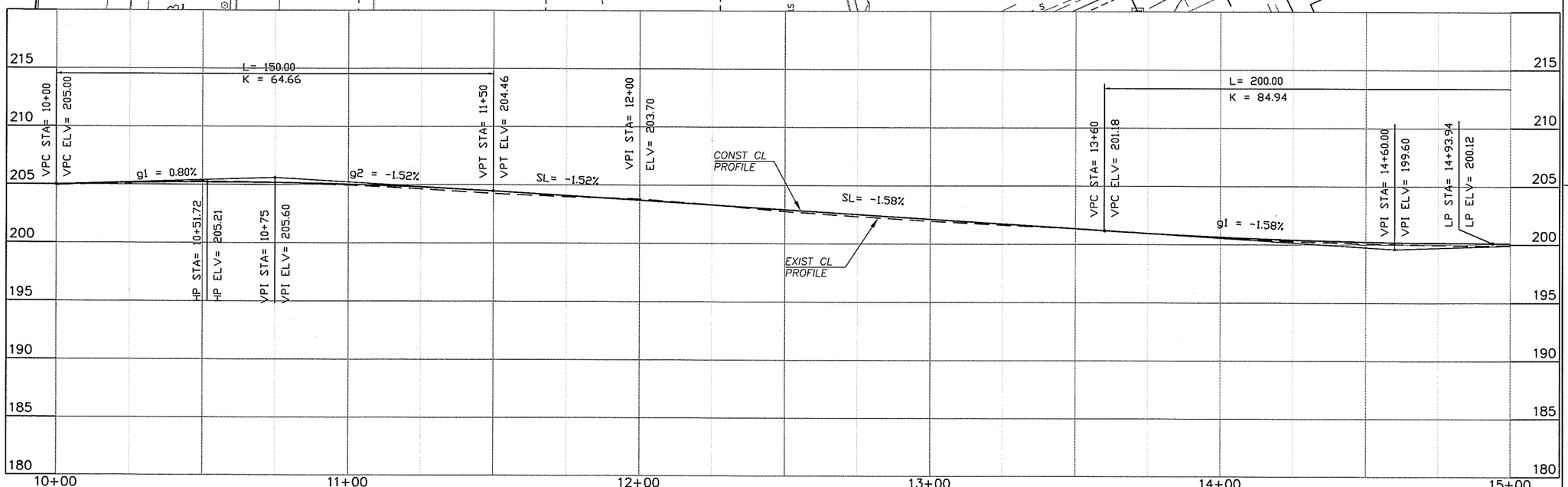
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP13.dwg, 8/31/2005 8:52:29 AM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION
EMBANKMENT



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP14
SHEET	42 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 37868 REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

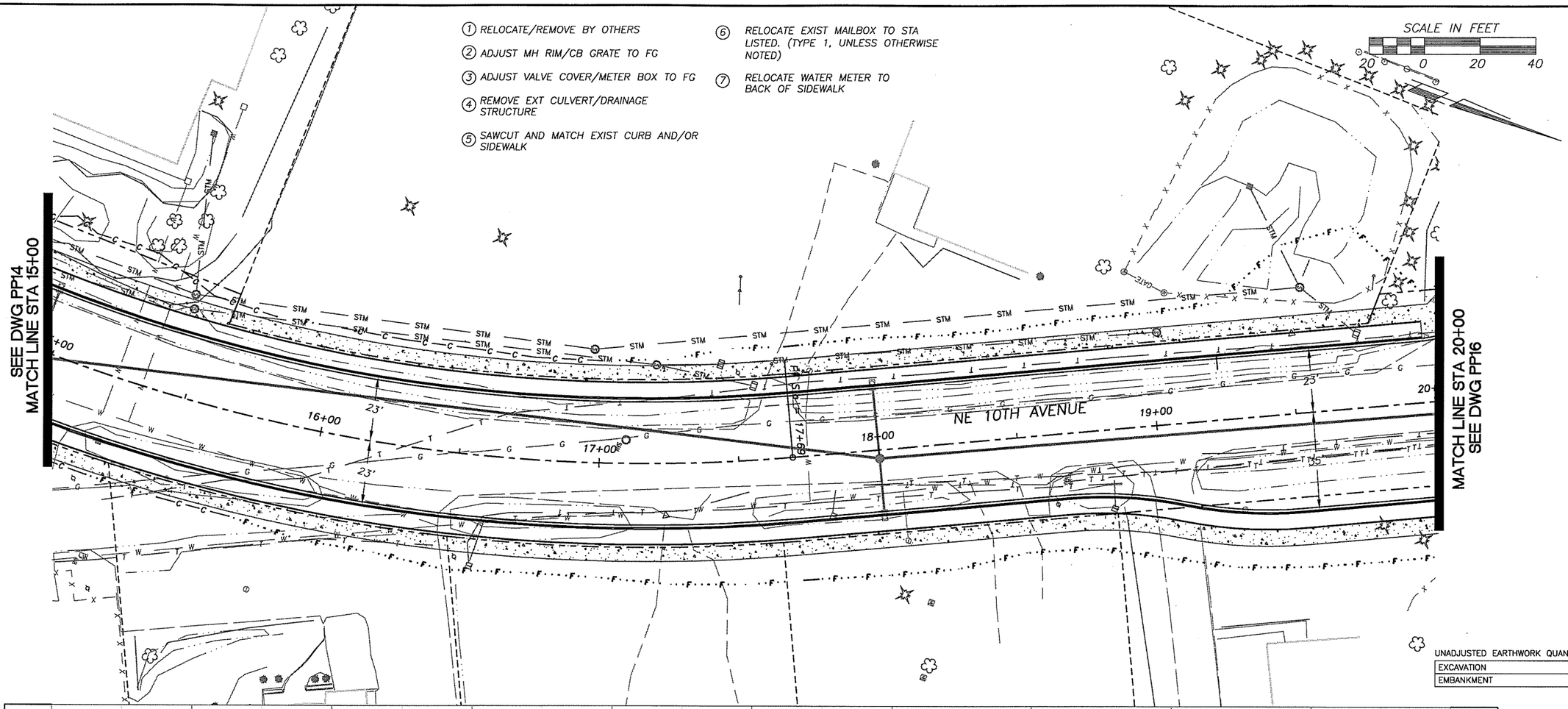
PLAN & PROFILE – 10TH (STA 10+00 TO 15+00)

proud past, promising future

CLARK COUNTY WASHINGTON

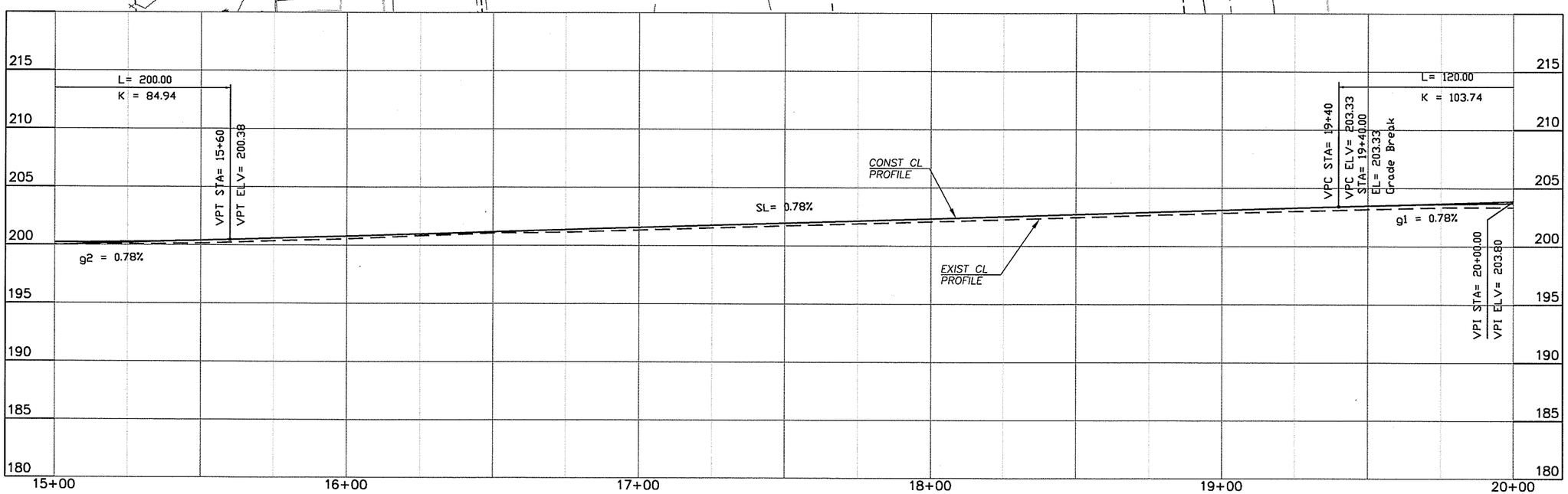
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP14.dwg, 8/31/2005 8:56:17 AM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP15
SHEET	43 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 22304 REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE – 10TH (STA 15+00 TO 20+00)

proud past, promising future
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP15.dwg, 8/30/2005 2:39:12 PM, kerlinr

SEE DWG PP4

SCALE IN FEET

20 0 20 40

SEE DWG PP15
MATCH LINE STA 20+00

MATCH LINE STA 25+00
SEE DWG PP17

NE 10TH AVENUE

NE 139TH ST

PC Sta = 20+47

PT Sta = 24+77

20+00 21+00 22+00 23+00 24+00 25+00

131+00

23' 35'

STM

① RELOCATE/REMOVE BY OTHERS

② ADJUST MH RIM/CB GRATE TO FG

③ ADJUST VALVE COVER/METER BOX TO FG

④ REMOVE EXT CULVERT/DRAINAGE STRUCTURE

⑤ SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK

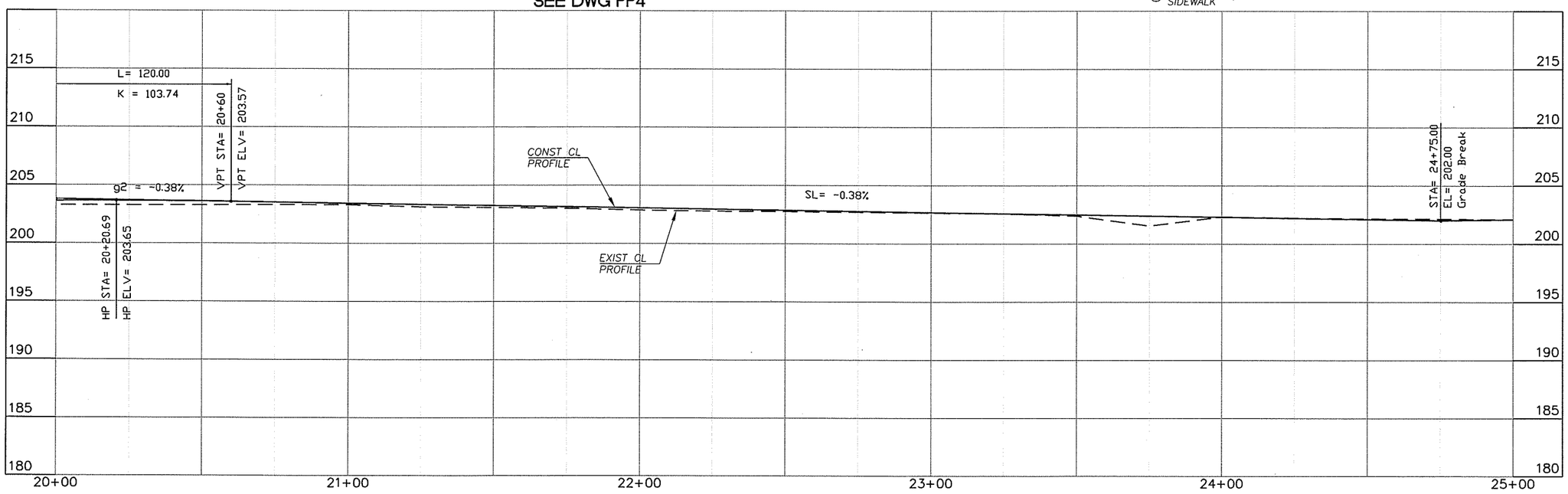
⑥ RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)

⑦ RELOCATE WATER METER TO BACK OF SIDEWALK

UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	

SEE DWG PP4



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP16
SHEET	44 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
32055
PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

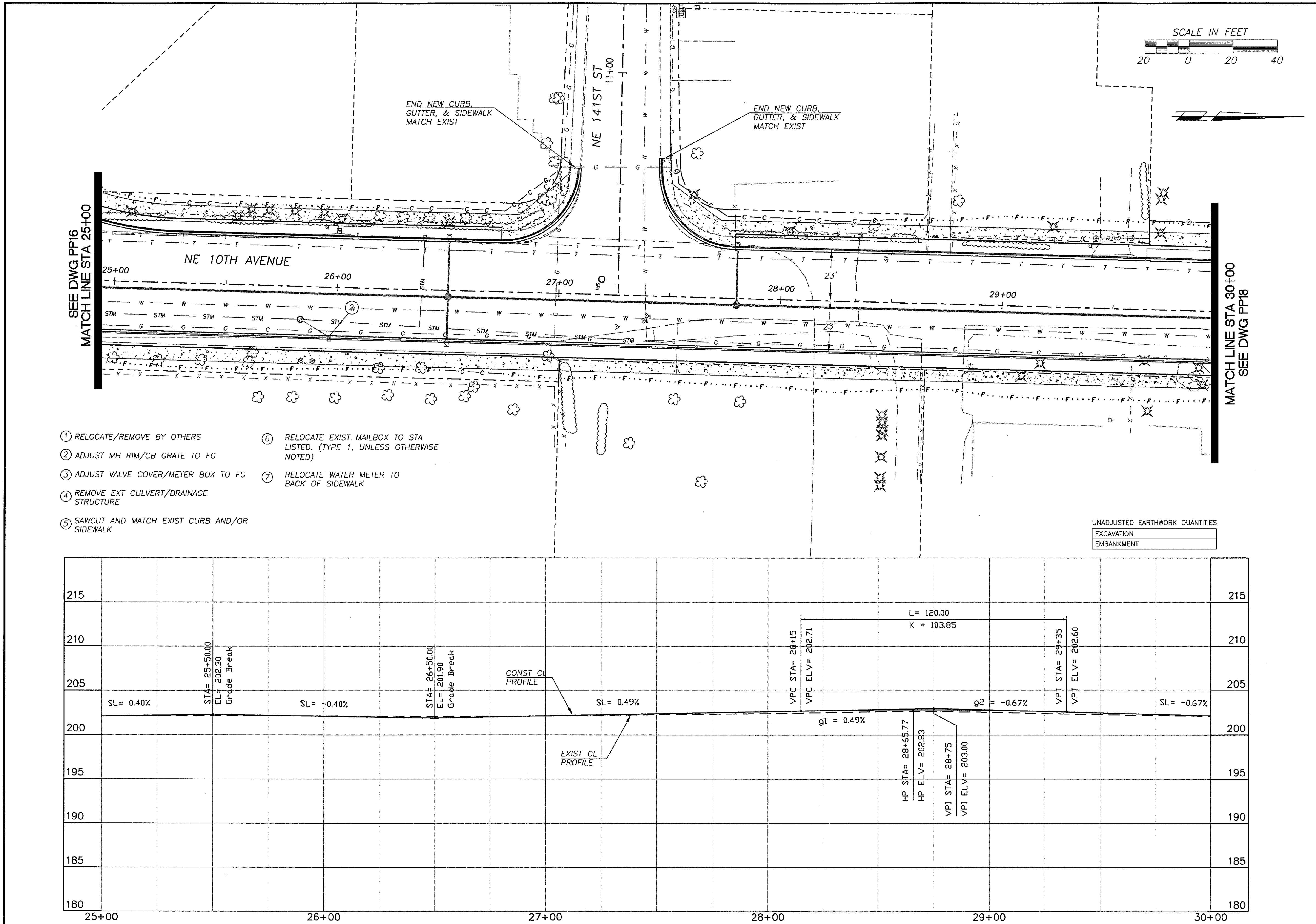
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 10TH (STA 20+00 TO 25+00)

proud past, promising future

CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP16.dwg, 8/30/2005 2:40:00 PM, kerlinr



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP17
SHEET	45 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

ENGINEERING PROGRAM
DESIGN SECTION

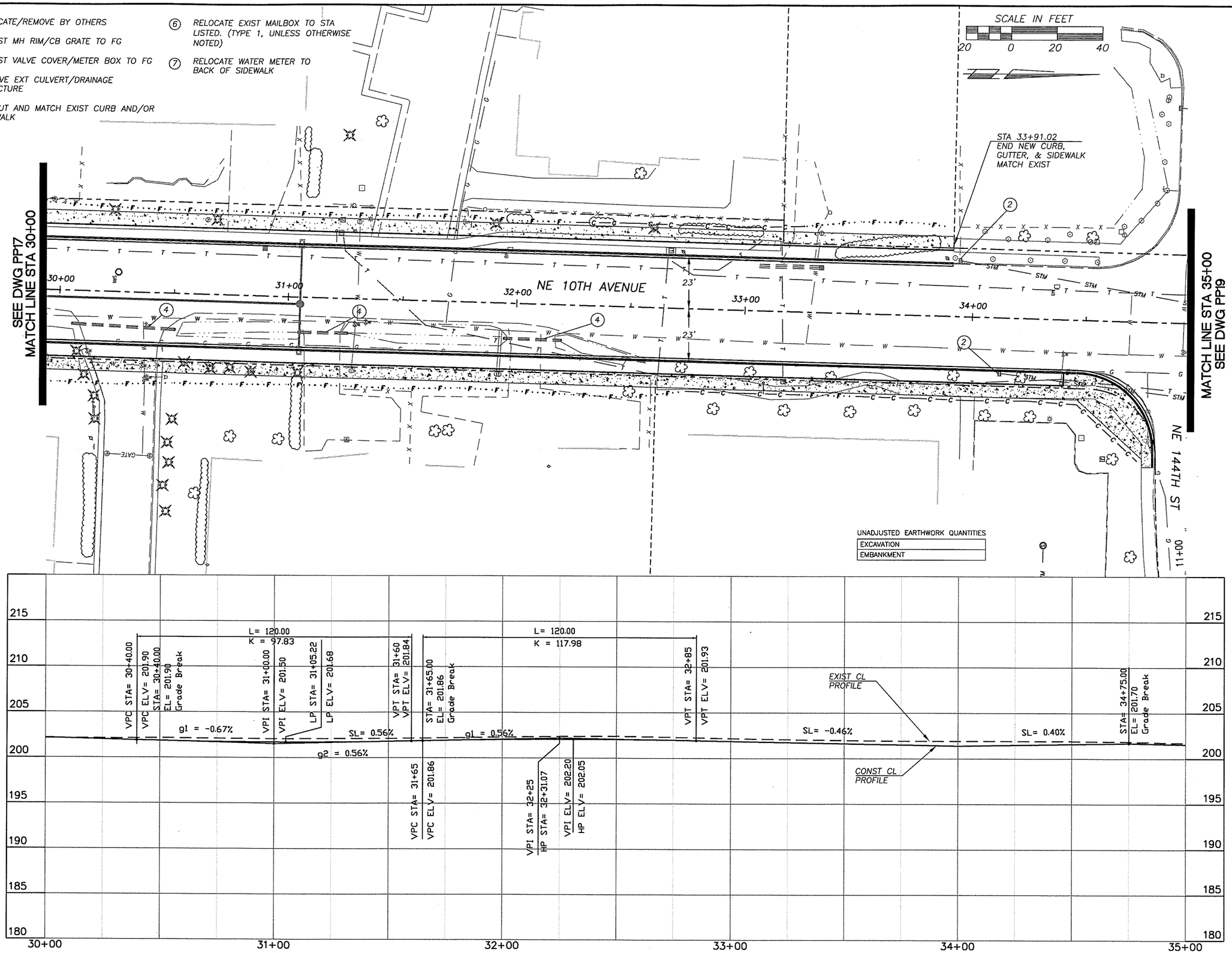
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE – 10TH (STA 25+00 TO 30+00)

CLARK COUNTY
WASHINGTON
proud past, promising future

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP17.dwg, 8/30/2005 2:40:26 PM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP18
SHEET	46 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

LYNNAE D. GRANGE STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 10TH (STA 30+00 TO 35+00)

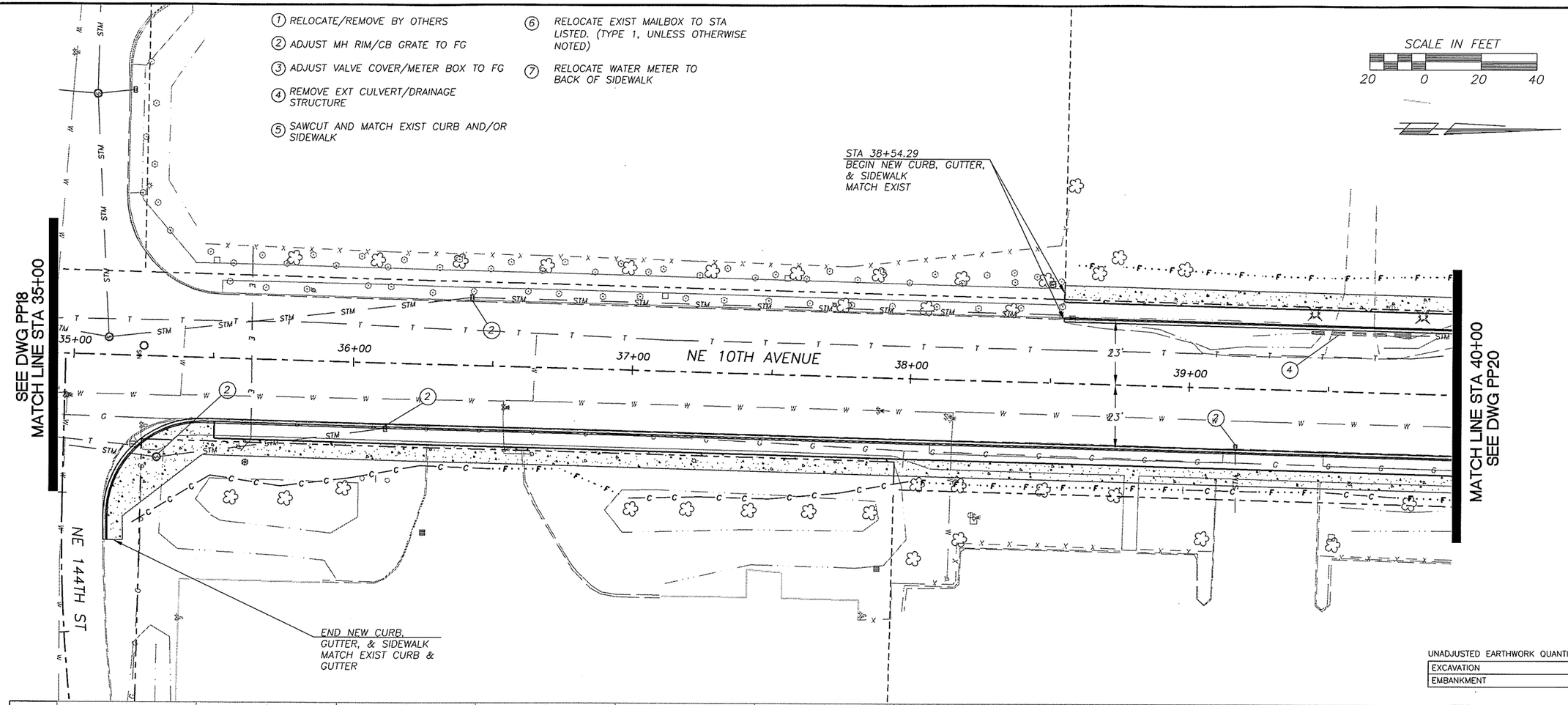
proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP18.dwg, 8/31/2005 8:56:40 AM, kerlinr

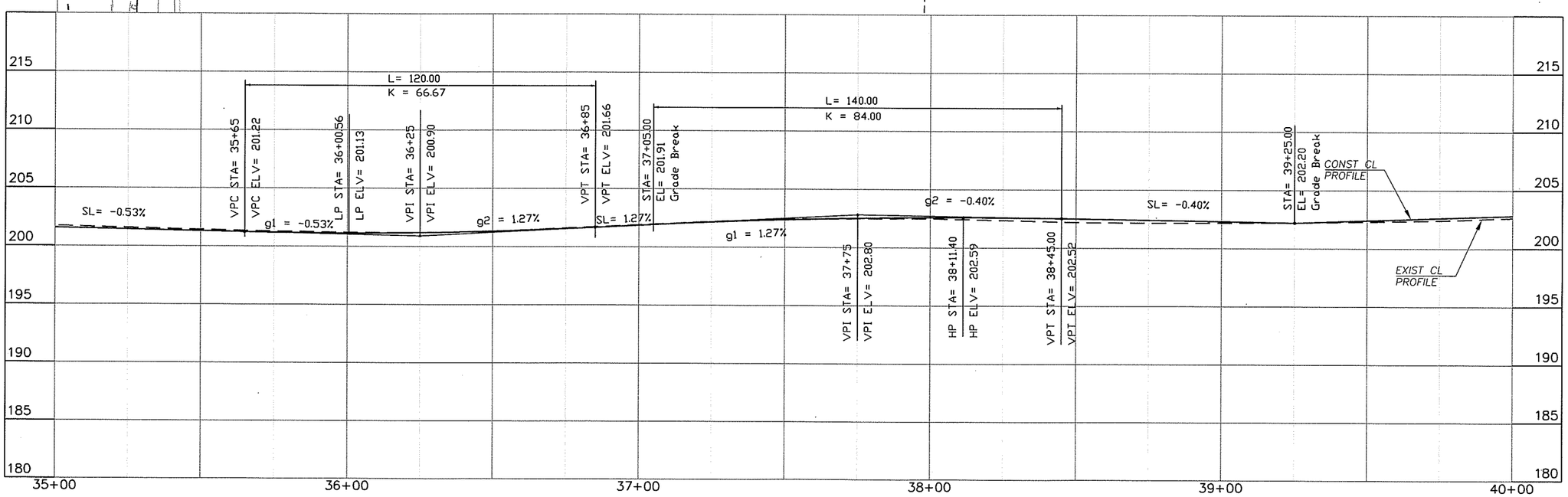
1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

SCALE IN FEET
20 0 20 40



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION
EMBANKMENT



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP19
SHEET	47 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
36268
REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

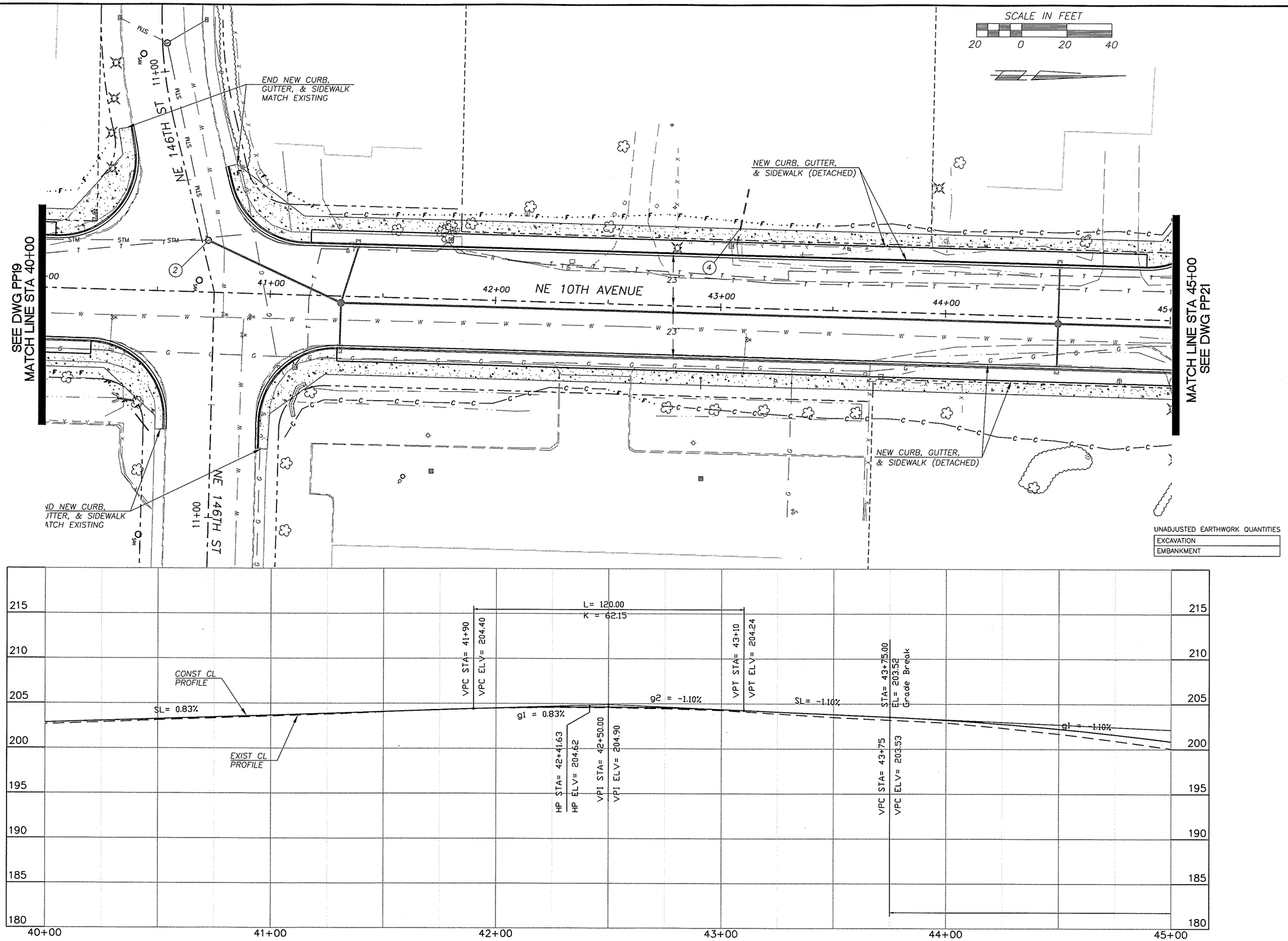
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE – 10TH (STA 35+00 TO 40+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP19.dwg, 8/30/2005 2:41:14 PM, kerlinr



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP20
SHEET	48 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
20006
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

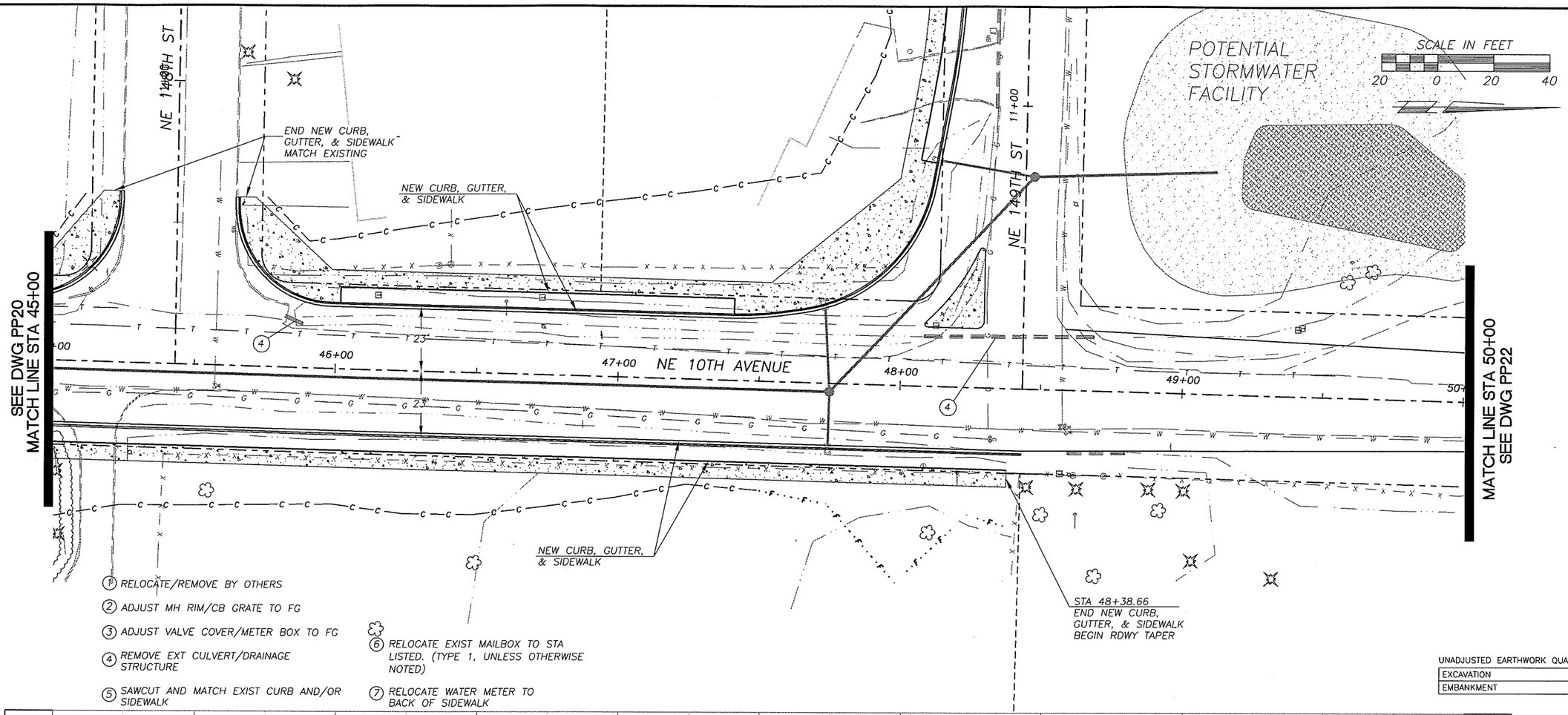
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE – 10TH (STA 40+00 TO 45+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

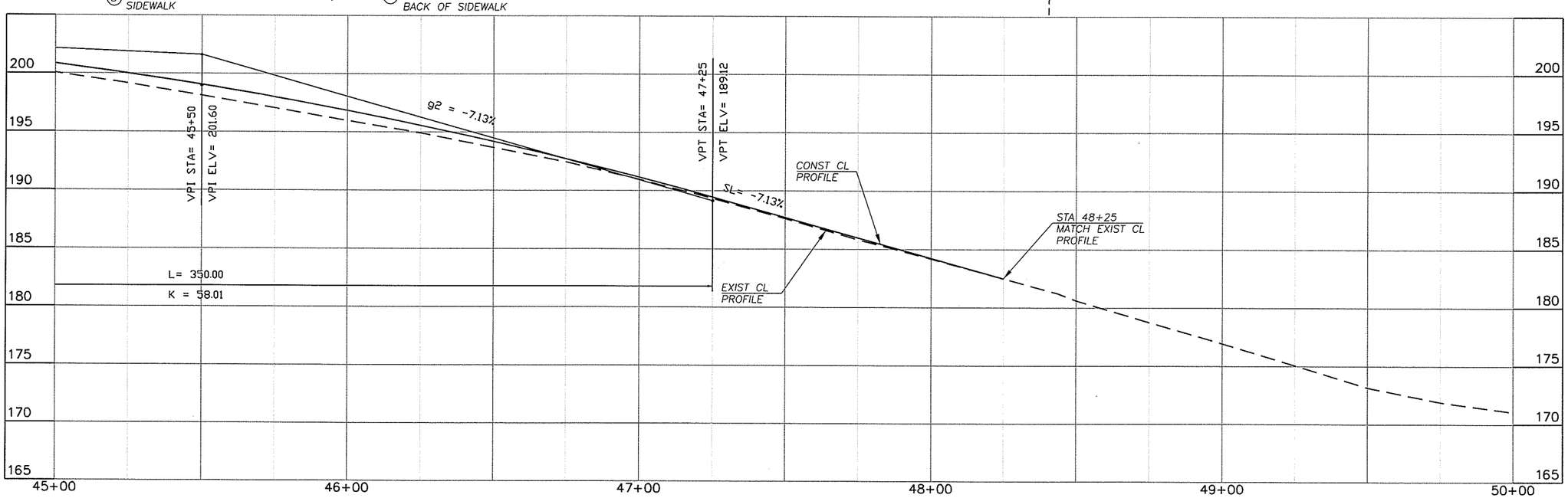
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP20.dwg, 8/30/2005 2:41:41 PM, kerlinr



1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP21
SHEET	49 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
20008
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 28, 2006

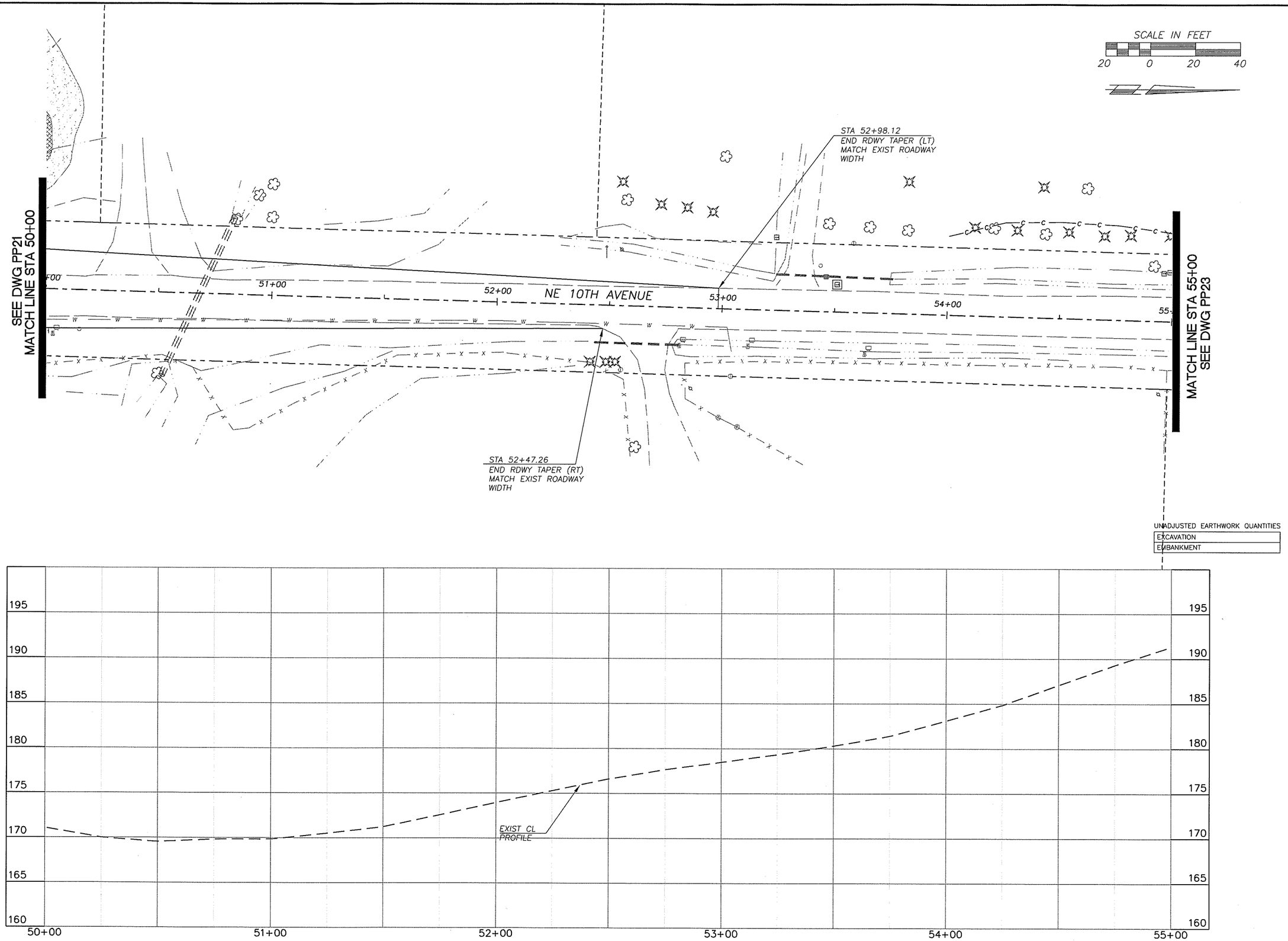
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 10TH (STA 45+00 TO 50+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP21.dwg, 8/31/2005 8:57:00 AM, kerlinr



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP22
SHEET 50	OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
17708
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

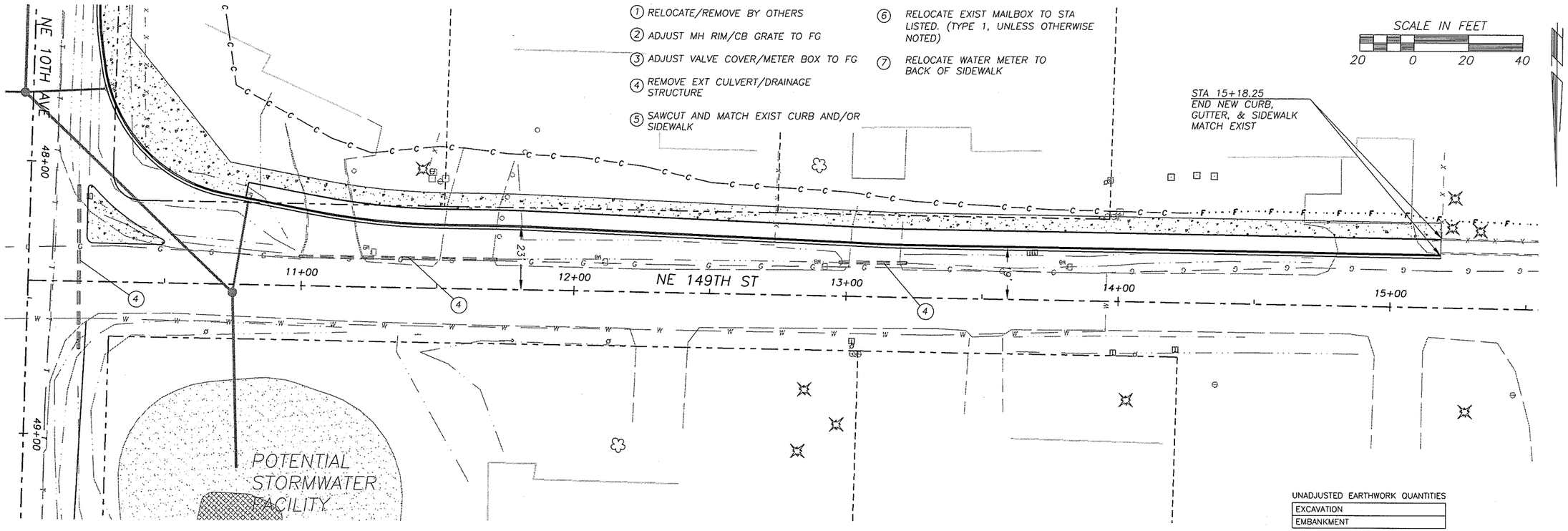
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 10TH (STA 50+00 TO 55+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

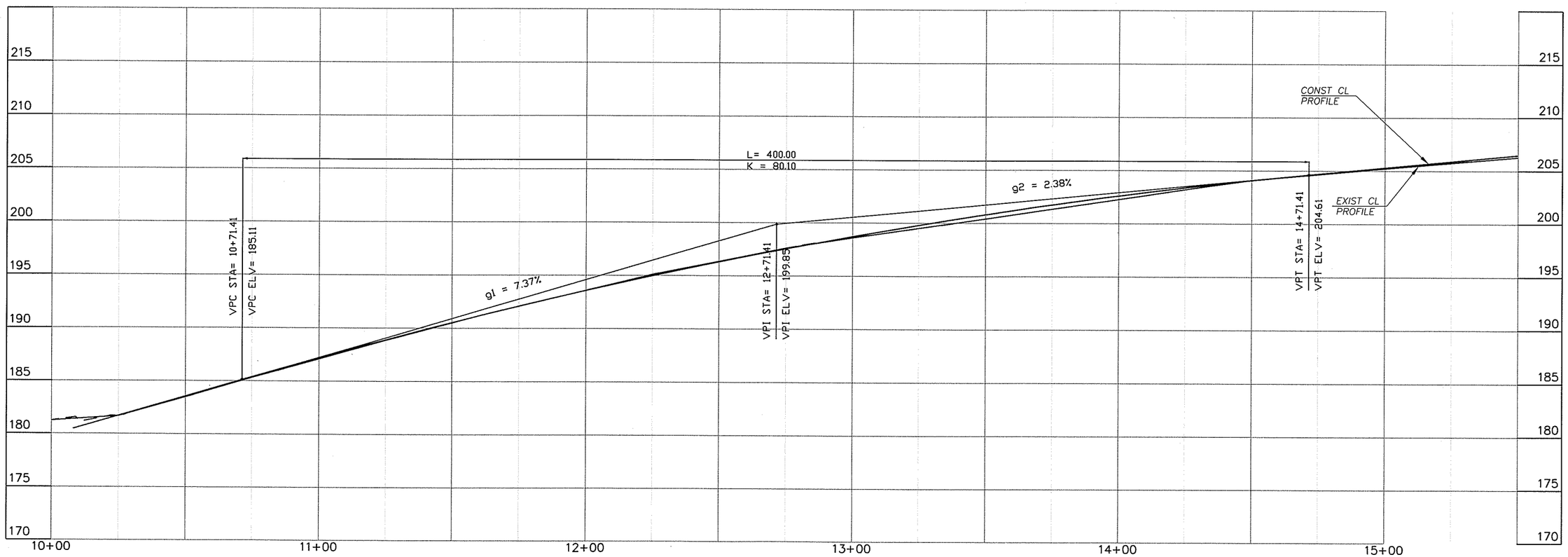
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP22.dwg, 8/30/2005 2:42:34 PM, kerlinr



1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK

UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP24
SHEET	52 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 37208 REGISTERED PROFESSIONAL ENGINEER EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

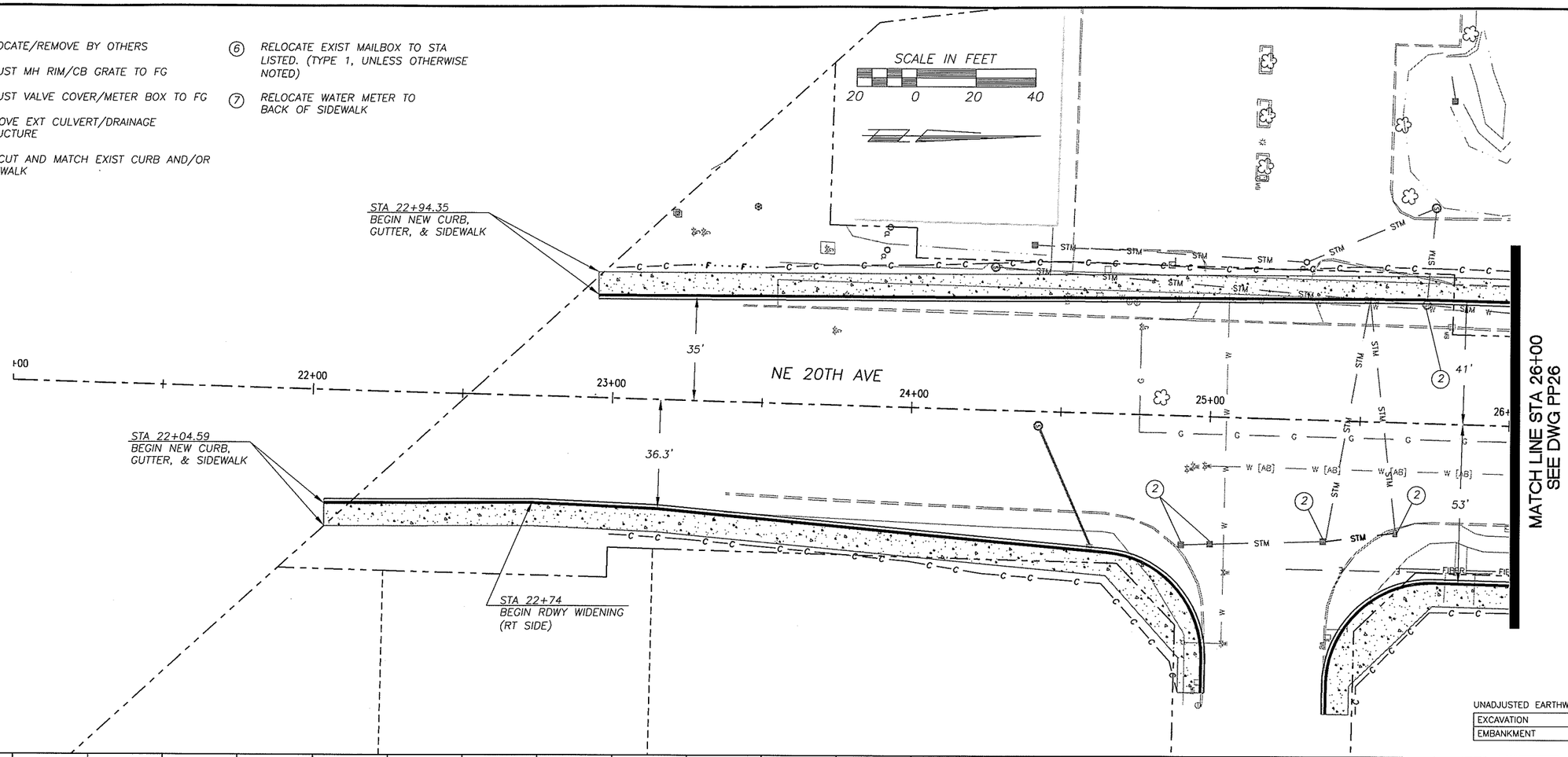
PLAN & PROFILE - 149TH (STA 10+00 TO E.O.P.)

proud past, promising future

CLARK COUNTY WASHINGTON

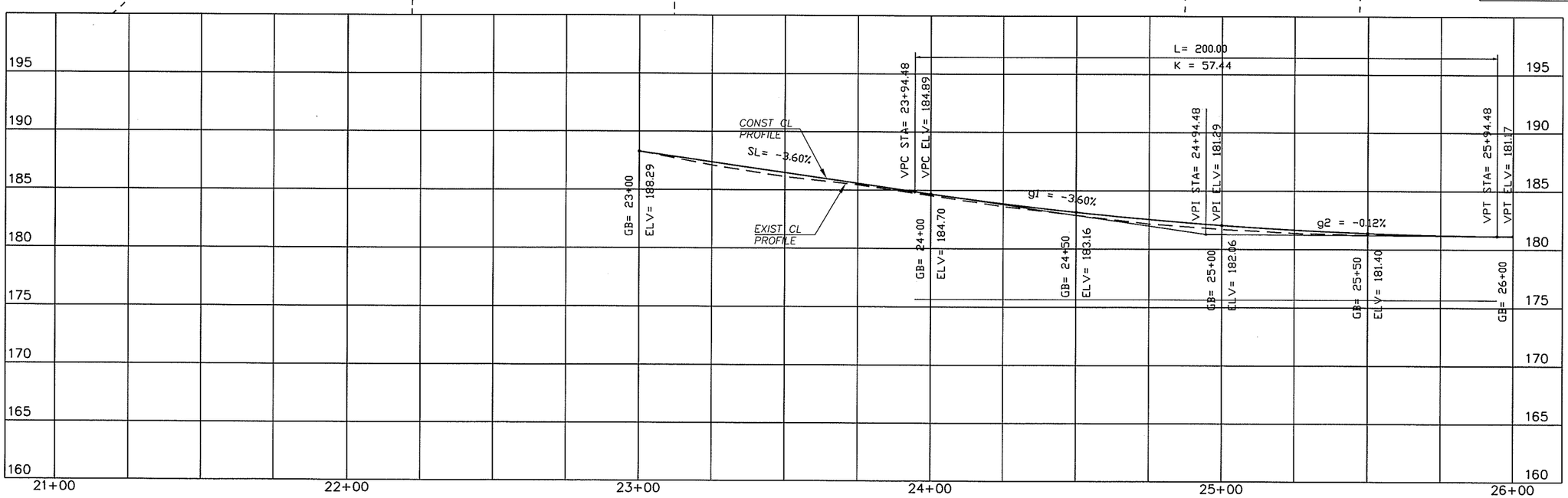
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP24.dwg, 8/30/2005 2:43:15 PM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED TG
DRAWN RK
CRP 330322
HOR. SEE SHEET
VERT. SEE SHEET
DATE 08/30/05
DWG. PP25
SHEET 53 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON
STEVEN D. GRANGE
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

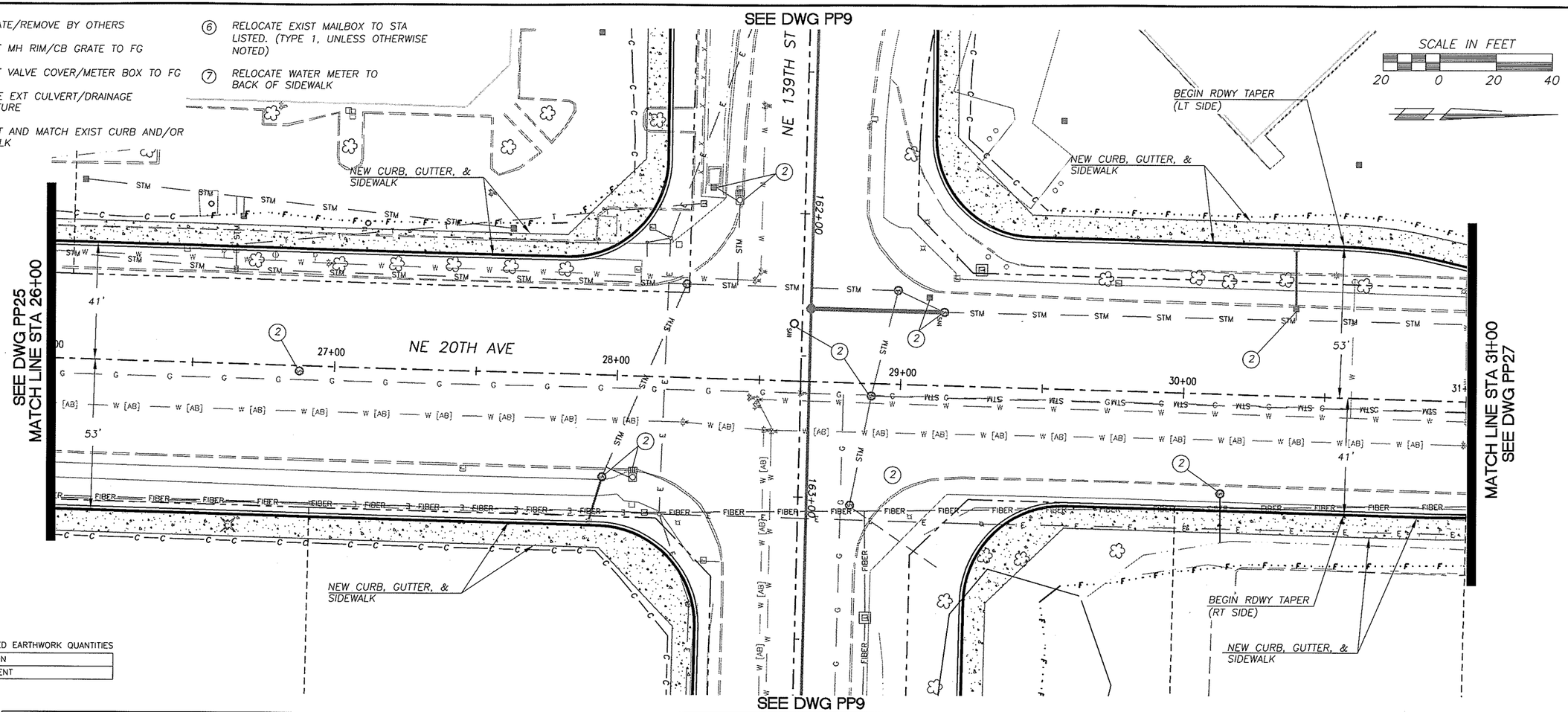
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 20TH (STA 21+00 TO 26+00)

proud past, promising future
CLARK COUNTY
WASHINGTON

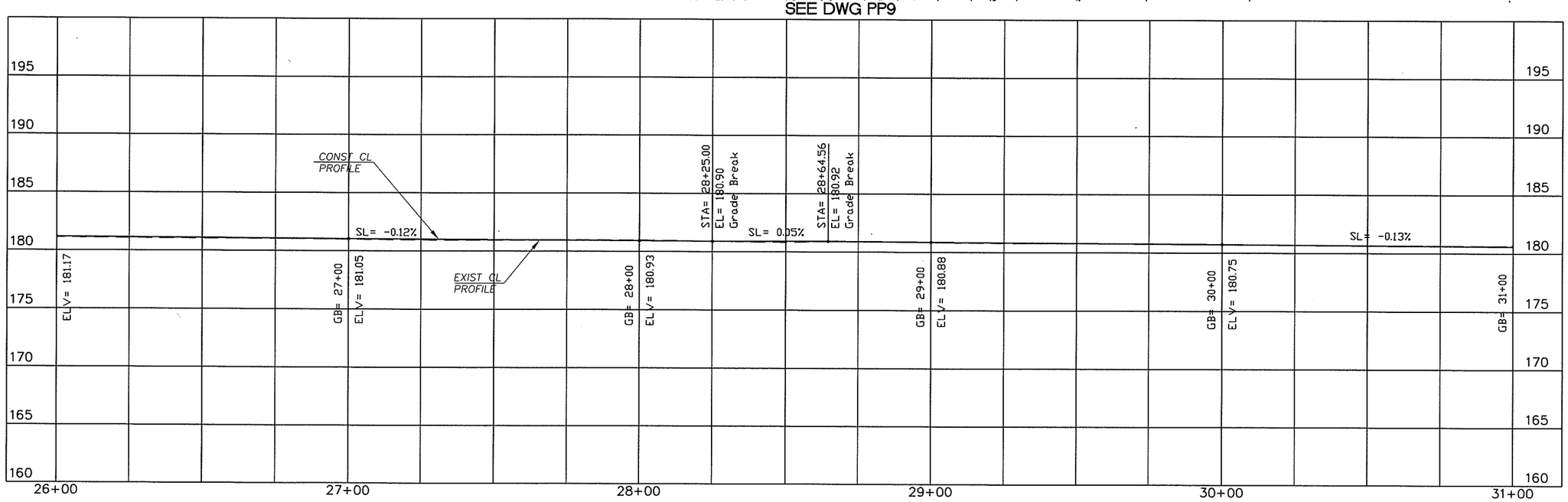
n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP25.dwg, 8/30/2005 2:43:35 PM, kerlinr

1. RELOCATE/REMOVE BY OTHERS
2. ADJUST MH RIM/CB GRATE TO FG
3. ADJUST VALVE COVER/METER BOX TO FG
4. REMOVE EXT CULVERT/DRAINAGE STRUCTURE
5. SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
6. RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
7. RELOCATE WATER METER TO BACK OF SIDEWALK



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	
EMBANKMENT	



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP26
SHEET	54 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

STEVEN D. GRANGE STATE OF WASHINGTON 37008 REGISTERED PROFESSIONAL ENGINEER EXPIRES JANUARY 26, 2006

ENGINEERING PROGRAM DESIGN SECTION

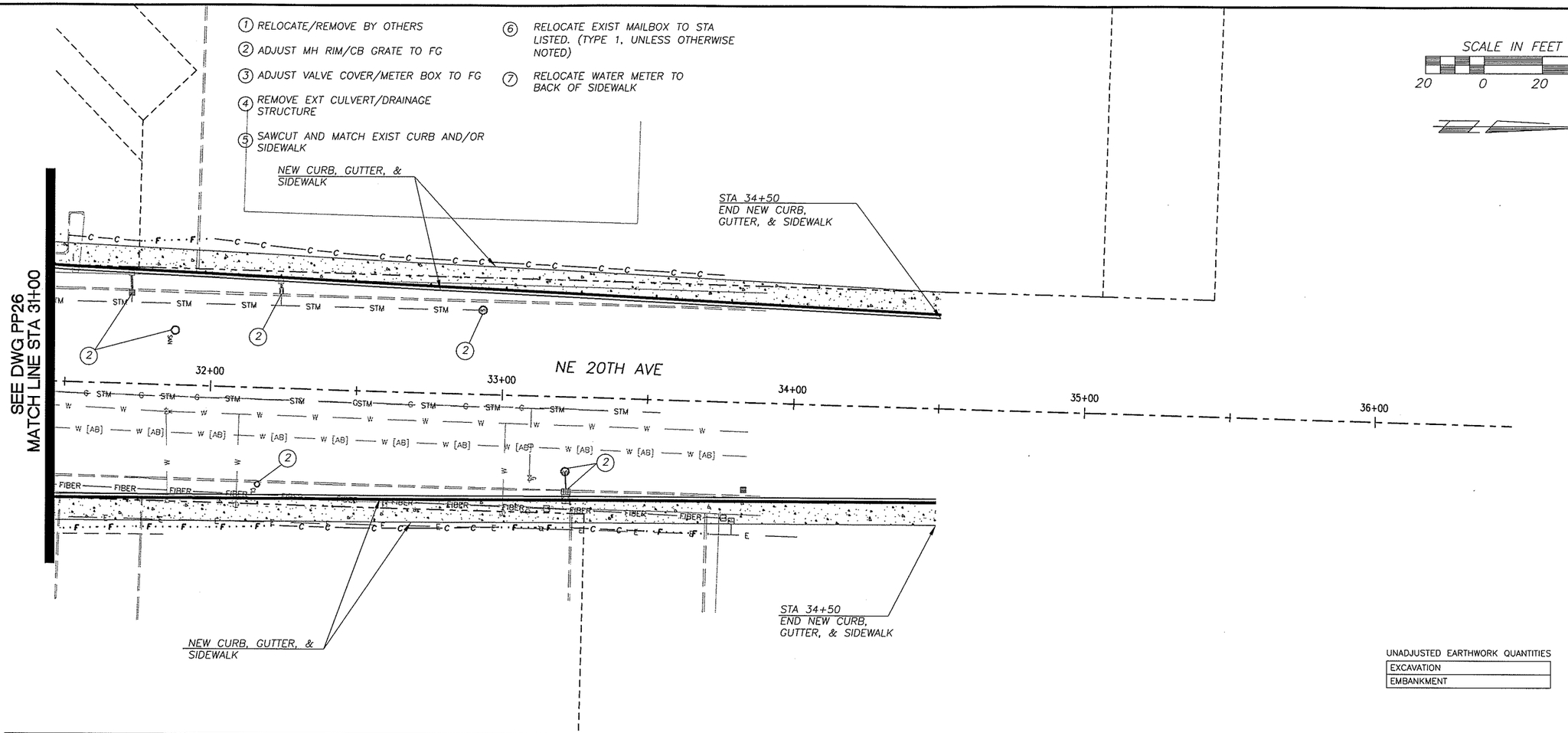
SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE - 20TH (STA 26+00 TO 31+00)

proud past, promising future

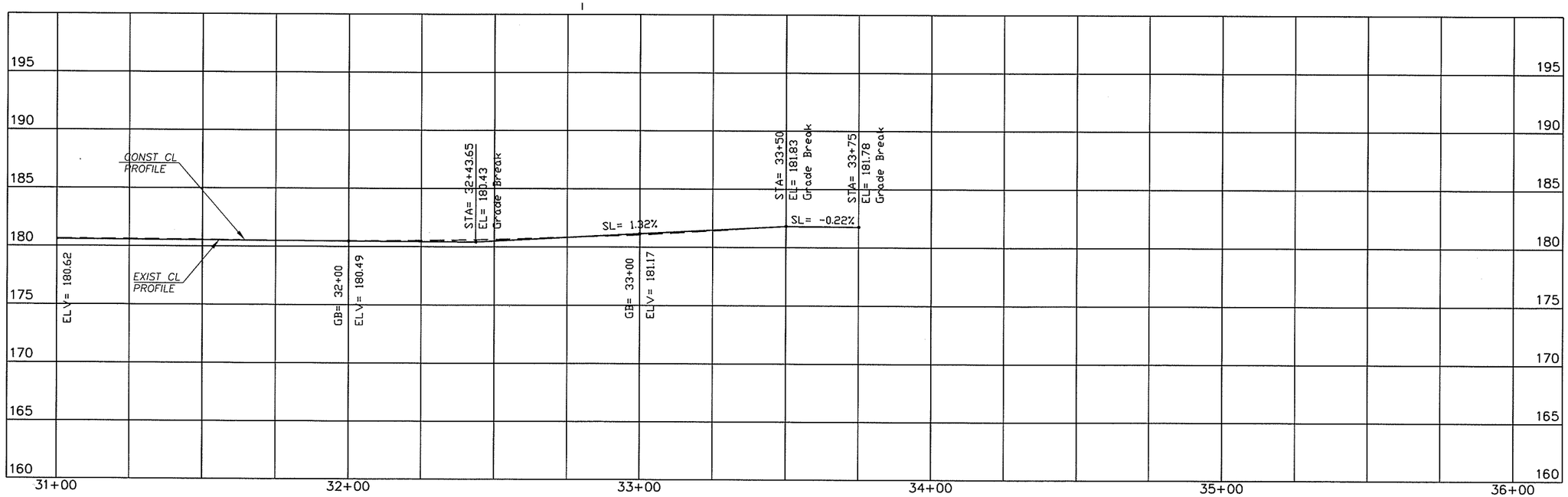
CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP26.dwg, 8/30/2005 2:43:57 PM, kerlinr



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION
EMBANKMENT



DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	PP27
SHEET	55 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
37268
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

PLAN & PROFILE – 20TH (STA 31+00 TO E.O.P.)

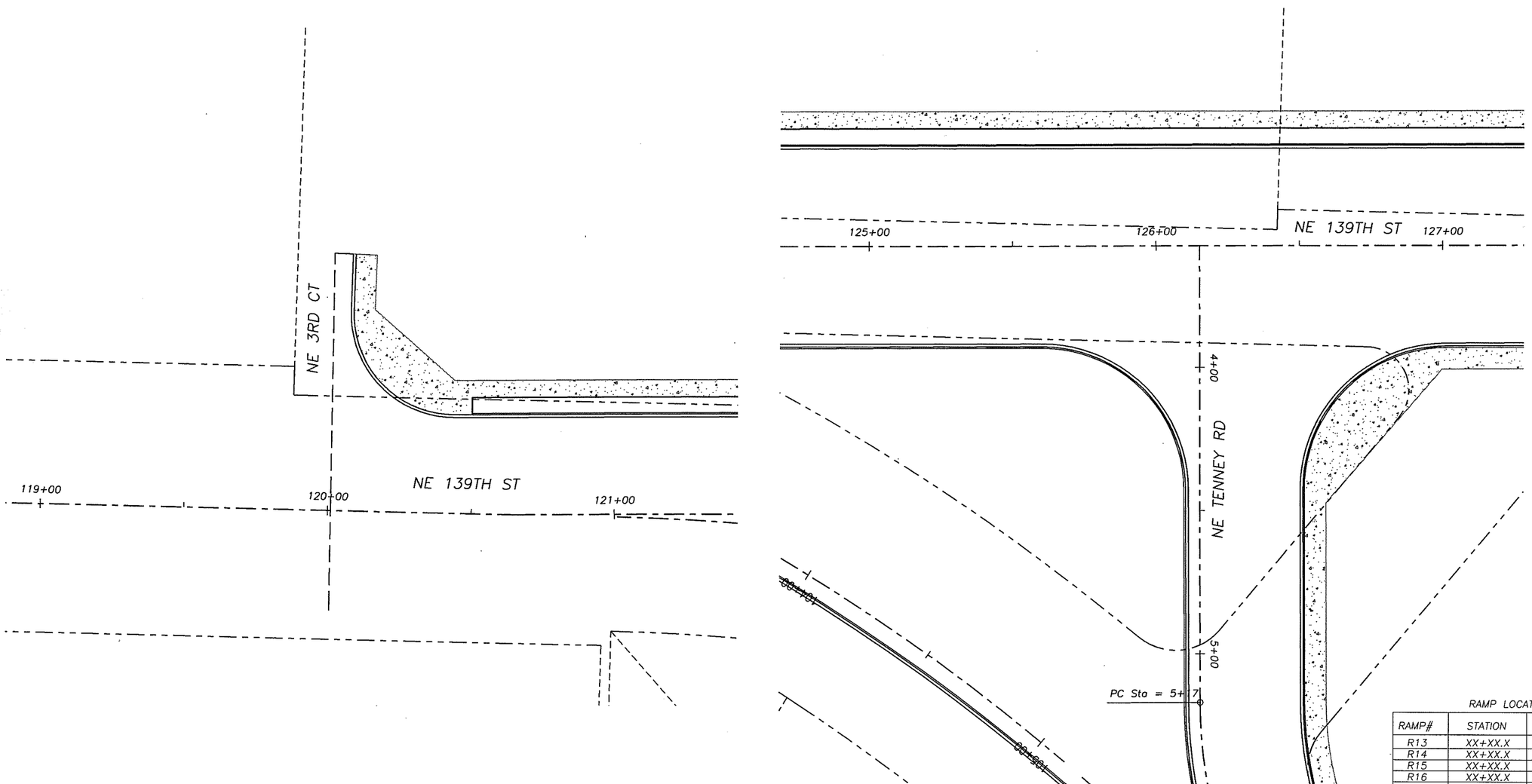
proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\PP27.dwg, 8/30/2005 2:44:18 PM, kerlinr

PRELIMINARY

SCALE IN FEET

20 0 20 40



RAMP LOCATIONS

RAMP#	STATION	OFFSET	TYPE
R13	XX+XX.X	XX.X' LT	2
R14	XX+XX.X	XX.X' RT	2
R15	XX+XX.X	XX.X' LT	2
R16	XX+XX.X	XX.X' RT	2
R17	XX+XX.X	XX.X' LT	2
R18	XX+XX.X	XX.X' RT	2
R19	XX+XX.X	XX.X' LT	2
R20	XX+XX.X	XX.X' RT	2
R21	XX+XX.X	XX.X' LT	2
R22	XX+XX.X	XX.X' RT	2
R23	XX+XX.X	XX.X' LT	2
R24	XX+XX.X	XX.X' RT	2

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	101
SHEET	56 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
21348
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT
INTERSECTION PLAN

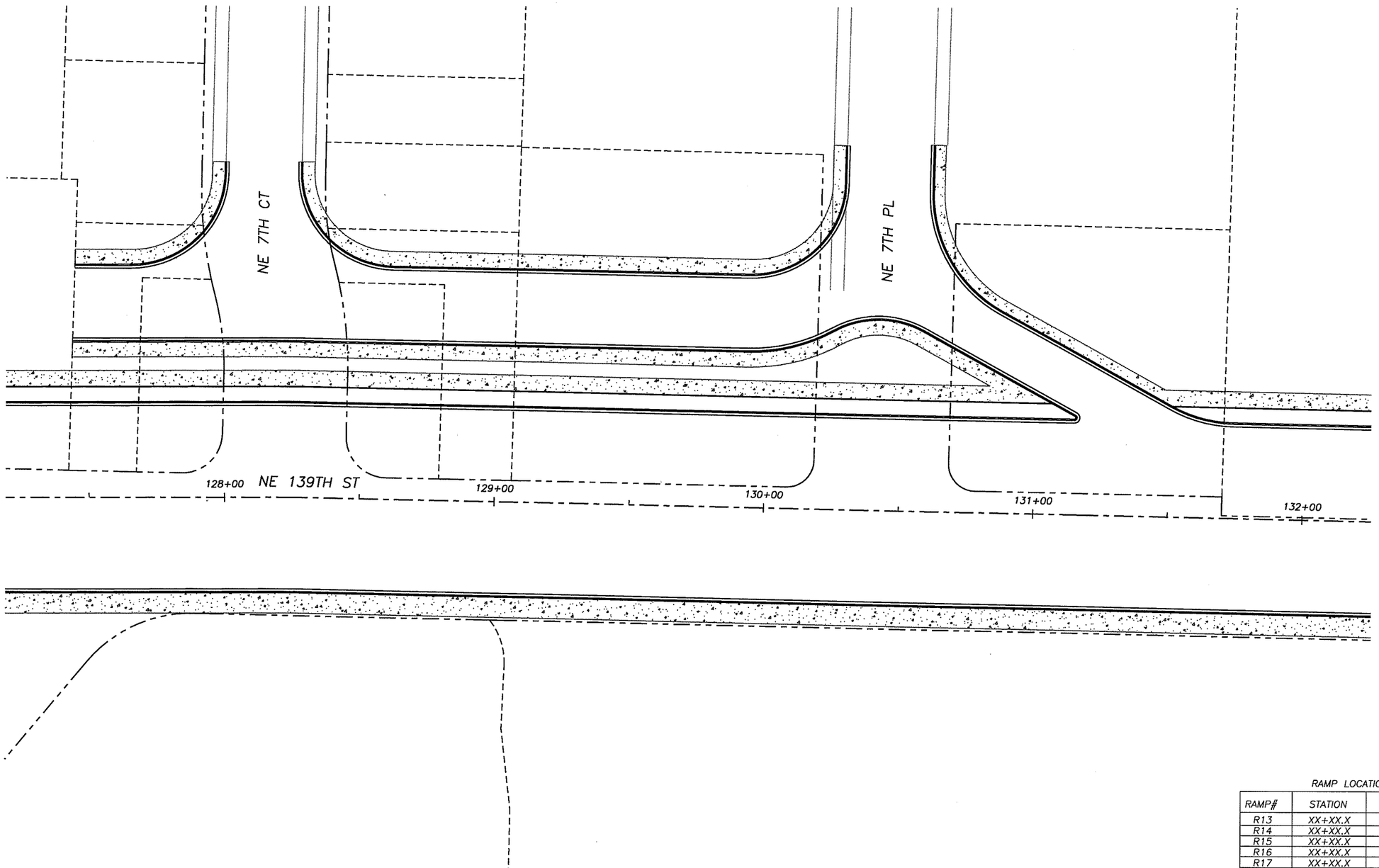
proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\101-6.dwg, 8/31/2005 8:28:48 AM, kerlinr

PRELIMINARY

SCALE IN FEET

20 0 20 40



RAMP LOCATIONS

RAMP#	STATION	OFFSET	TYPE
R13	XX+XX.X	XX.X' LT	2
R14	XX+XX.X	XX.X' RT	2
R15	XX+XX.X	XX.X' LT	2
R16	XX+XX.X	XX.X' RT	2
R17	XX+XX.X	XX.X' LT	2
R18	XX+XX.X	XX.X' RT	2
R19	XX+XX.X	XX.X' LT	2
R20	XX+XX.X	XX.X' RT	2
R21	XX+XX.X	XX.X' LT	2
R22	XX+XX.X	XX.X' RT	2
R23	XX+XX.X	XX.X' LT	2
R24	XX+XX.X	XX.X' RT	2

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	102
SHEET	57 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

LEWIS D. GRANGE
STATE OF WASHINGTON
21608
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

INTERSECTION PLAN

proud past, promising future

CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\I01-6.dwg, 8/31/2005 8:29:00 AM, kerlinr

RAMP LOCATIONS

RAMP#	STATION	OFFSET	TYPE
R13	XX+XX.X	XX.X' LT	2
R14	XX+XX.X	XX.X' RT	2
R15	XX+XX.X	XX.X' LT	2
R16	XX+XX.X	XX.X' RT	2
R17	XX+XX.X	XX.X' LT	2
R18	XX+XX.X	XX.X' RT	2
R19	XX+XX.X	XX.X' LT	2
R20	XX+XX.X	XX.X' RT	2
R21	XX+XX.X	XX.X' LT	2
R22	XX+XX.X	XX.X' RT	2
R23	XX+XX.X	XX.X' LT	2
R24	XX+XX.X	XX.X' RT	2

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	103
SHEET	58 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRAGE
STATE OF WASHINGTON
32588
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

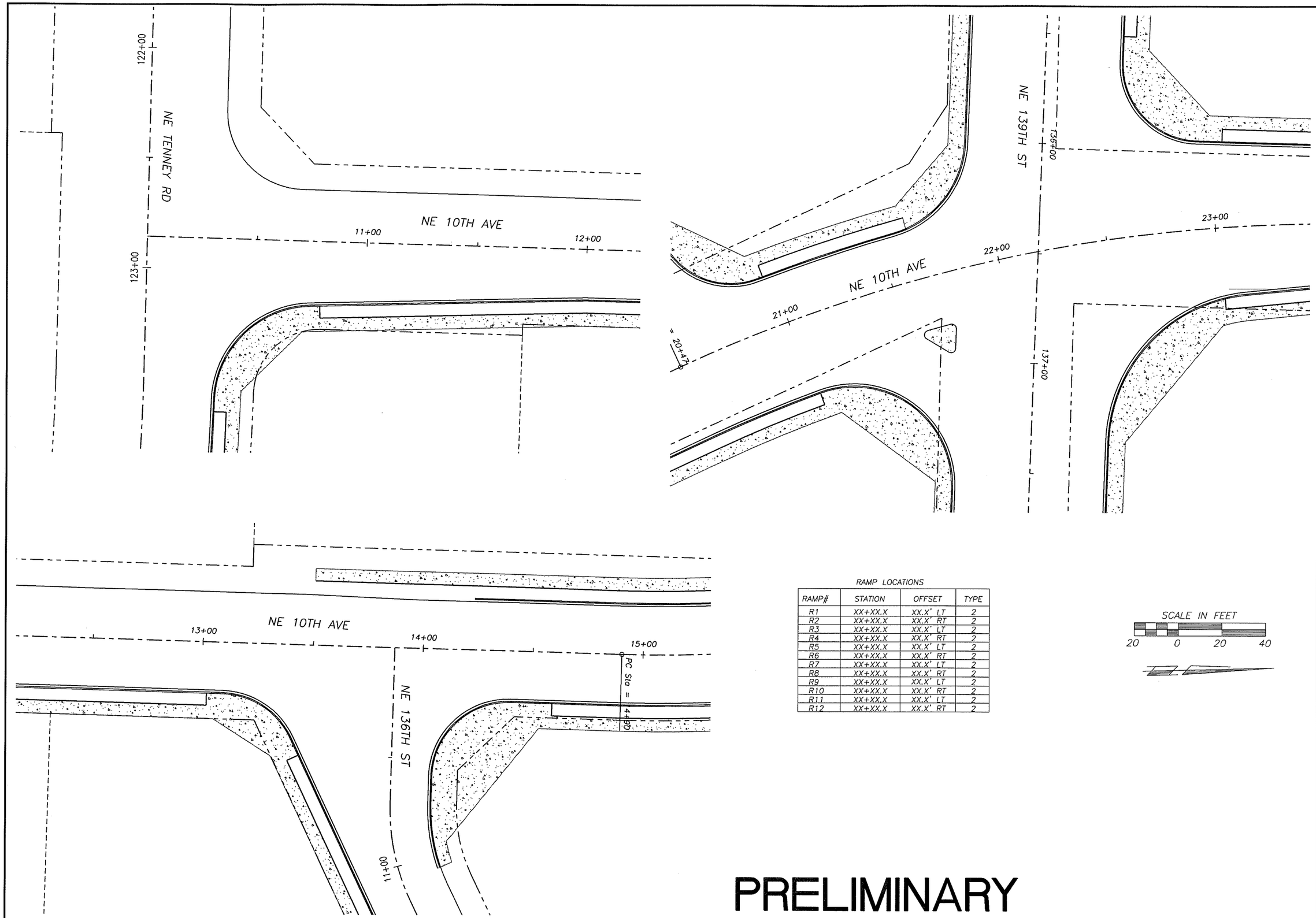
ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

INTERSECTION PLAN

proud past, promising future
CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\101-6.dwg, 8/31/2005 8:29:11 AM, keelinr



RAMP LOCATIONS

RAMP#	STATION	OFFSET	TYPE
R1	XX+XX.X	XX.X' LT	2
R2	XX+XX.X	XX.X' RT	2
R3	XX+XX.X	XX.X' LT	2
R4	XX+XX.X	XX.X' RT	2
R5	XX+XX.X	XX.X' LT	2
R6	XX+XX.X	XX.X' RT	2
R7	XX+XX.X	XX.X' LT	2
R8	XX+XX.X	XX.X' RT	2
R9	XX+XX.X	XX.X' LT	2
R10	XX+XX.X	XX.X' RT	2
R11	XX+XX.X	XX.X' LT	2
R12	XX+XX.X	XX.X' RT	2

SCALE IN FEET

20 0 20 40

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	104
SHEET	59 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE
STATE OF WASHINGTON
37068
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

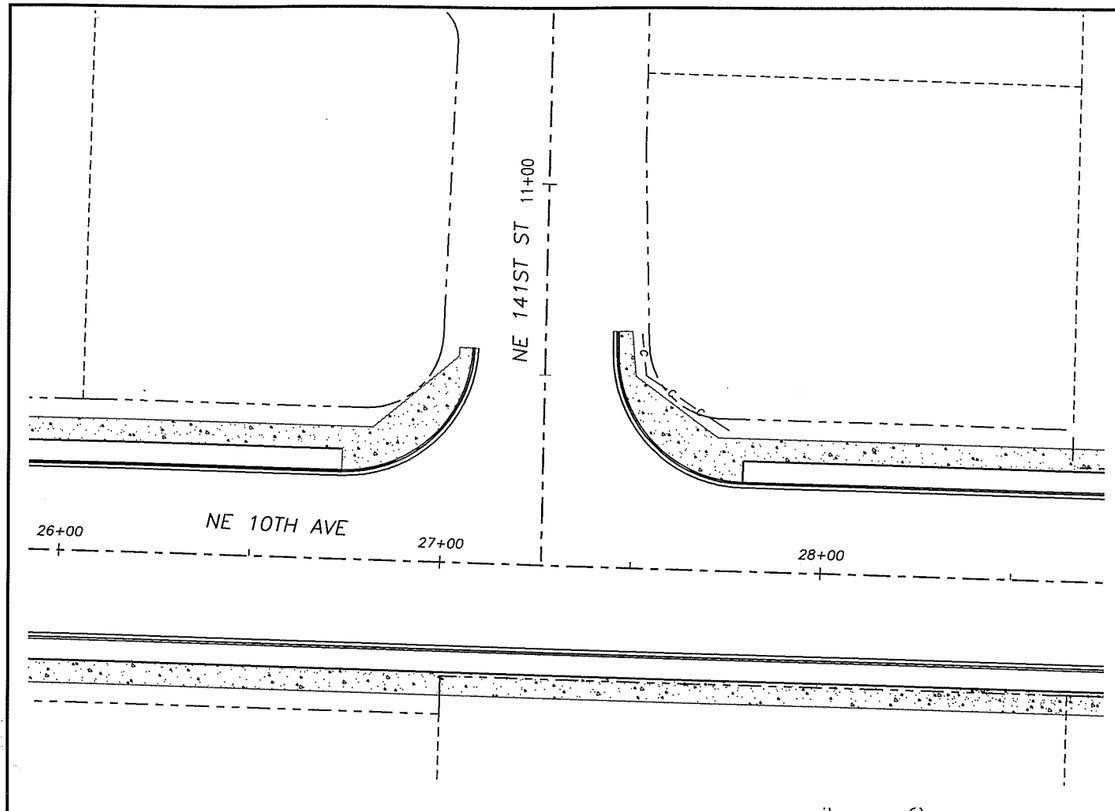
SALMON CREEK INTERCHANGE PROJECT

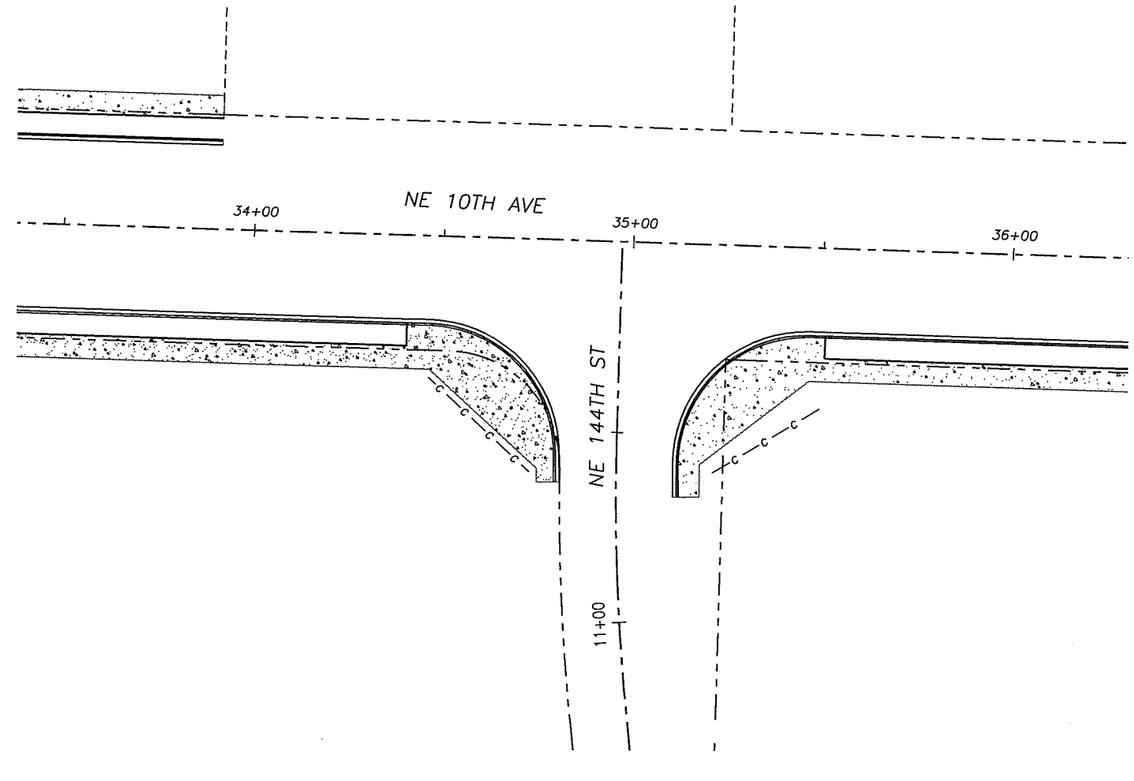
INTERSECTION PLAN

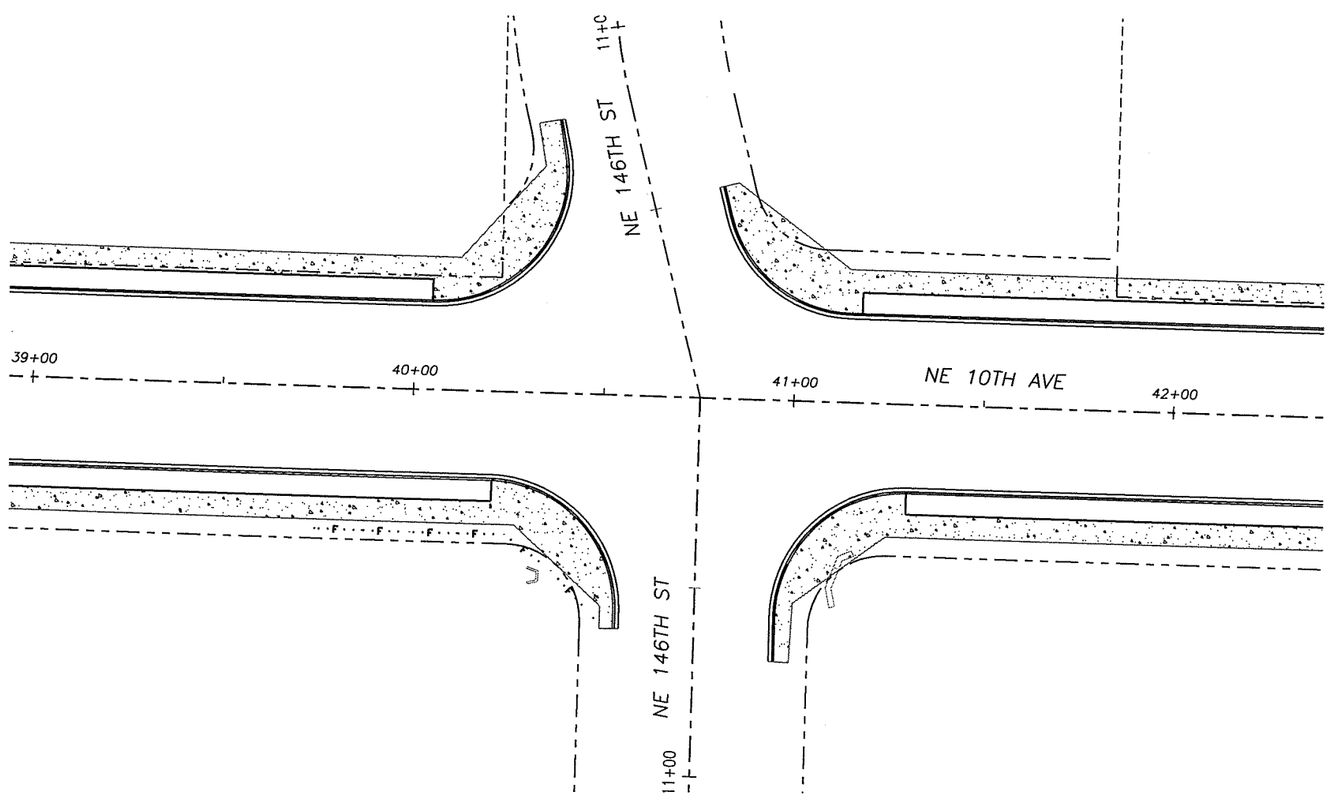
proud past, promising future

CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\I01-6.dwg, 8/31/2005 8:29:25 AM, kerlinr







SCALE IN FEET

20 0 20 40

RAMP LOCATIONS

RAMP#	STATION	OFFSET	TYPE
R13	XX+XX.X	XX.X' LT	2
R14	XX+XX.X	XX.X' RT	2
R15	XX+XX.X	XX.X' LT	2
R16	XX+XX.X	XX.X' RT	2
R17	XX+XX.X	XX.X' LT	2
R18	XX+XX.X	XX.X' RT	2
R19	XX+XX.X	XX.X' LT	2
R20	XX+XX.X	XX.X' RT	2
R21	XX+XX.X	XX.X' LT	2
R22	XX+XX.X	XX.X' RT	2
R23	XX+XX.X	XX.X' LT	2
R24	XX+XX.X	XX.X' RT	2

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	105
SHEET	60 OF XX

CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law" NORTHWEST UTILITIES NOTIFICATION CENTER

THOMAS D. GRANGE STATE OF WASHINGTON 32508 PROFESSIONAL ENGINEER EXPIRES: JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

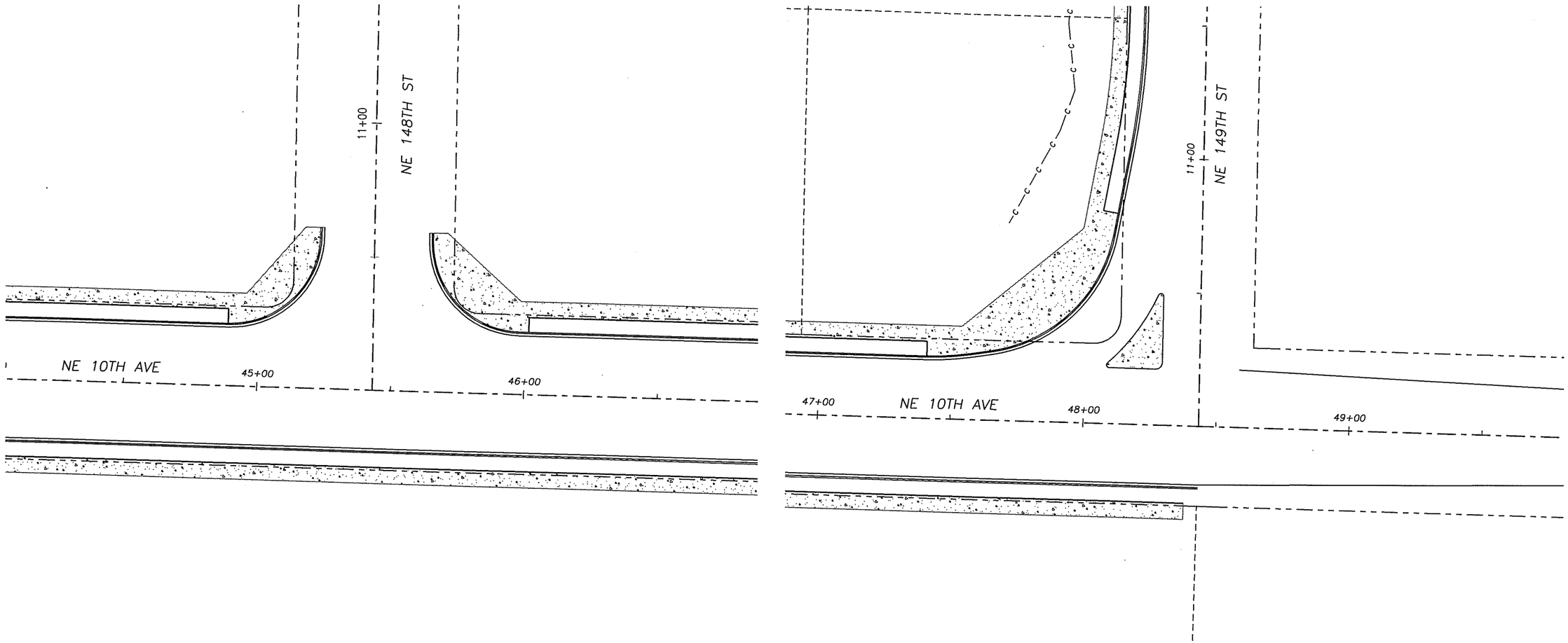
SALMON CREEK INTERCHANGE PROJECT

INTERSECTION PLAN

proud past, promising future

CLARK COUNTY WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\101-6.dwg, 8/31/2005 8:29:40 AM, kerlinr



RAMP LOCATIONS

RAMP#	STATION	OFFSET	TYPE
R13	XX+XX.X	XX.X' LT	2
R14	XX+XX.X	XX.X' RT	2
R15	XX+XX.X	XX.X' LT	2
R16	XX+XX.X	XX.X' RT	2
R17	XX+XX.X	XX.X' LT	2
R18	XX+XX.X	XX.X' RT	2
R19	XX+XX.X	XX.X' LT	2
R20	XX+XX.X	XX.X' RT	2
R21	XX+XX.X	XX.X' LT	2
R22	XX+XX.X	XX.X' RT	2
R23	XX+XX.X	XX.X' LT	2
R24	XX+XX.X	XX.X' RT	2

SCALE IN FEET

20 0 20 40

PRELIMINARY

DESIGNED	TG
DRAWN	RK
CRP	330322
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	08/30/05
DWG:	106
SHEET	61 OF XX

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES NOTIFICATION CENTER

STATE OF WASHINGTON
THOMAS D. GRANGE
27384
REGISTERED PROFESSIONAL ENGINEER
EXPIRES JANUARY 20, 2006

ENGINEERING PROGRAM
DESIGN SECTION

SALMON CREEK INTERCHANGE PROJECT

INTERSECTION PLAN

proud past, promising future

CLARK COUNTY
WASHINGTON

n:\CIP\PROJECTS\330322-NE139th-O-xing\DESIGN\DWGS\101-6.dwg, 8/31/2005 8:29:55 AM, kerlinr