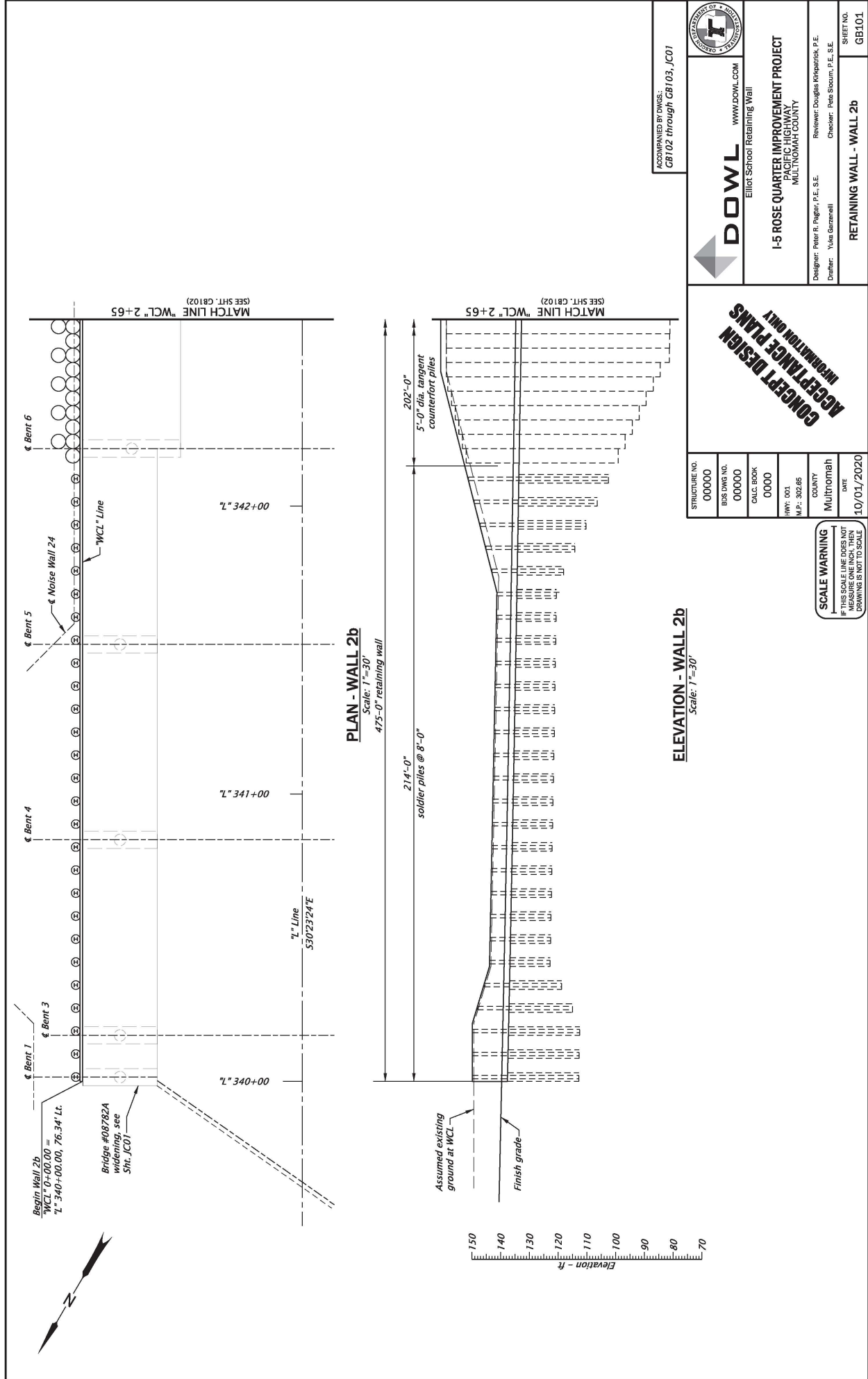


Appendix I. Unique Retaining Walls

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Begin Wall 2b
"WCL" 10+00.00 =
"L" 340+00.00, 76.34' Lt.

Bridge #08782A
widening, see
Sht. JC01

€ Bent 1

€ Bent 2

€ Bent 3

€ Bent 4

€ Bent 5

€ Bent 6

€ Noise Wall 24

WCL Line

"L" 340+00

"L" 341+00

"L" 342+00

"L" Line
S30°23'24"E

PLAN - WALL 2b
Scale: 1"=30'
475'-0" retaining wall

214'-0"
soldier piles @ 8'-0"

202'-0"
5'-0" dia. tangent
counterfort piles

Assumed existing
ground at WCL

Finish grade



ELEVATION - WALL 2b
Scale: 1"=30'

ACCOMPANIED BY DWGS:
GB102 through GB103, JC01

DOWL
www.dowl.com
Elliot School Retaining Wall

I-5 ROSE QUARTER IMPROVEMENT PROJECT
PACIFIC HIGHWAY
MULTNOMAH COUNTY

Designer: Peter R. Papp, P.E., S.E.
Reviewer: Douglas Kikpatrick, P.E.
Checker: Pete Sloum, P.E., S.E.

Drafter: Yuka Garzwell

STRUCTURE NO. 00000
BUS DWG NO. 00000
CALC. BOOK 0000
HW: 001
M.P.: 302.65

COUNTY Multnomah
DATE 10/01/2020

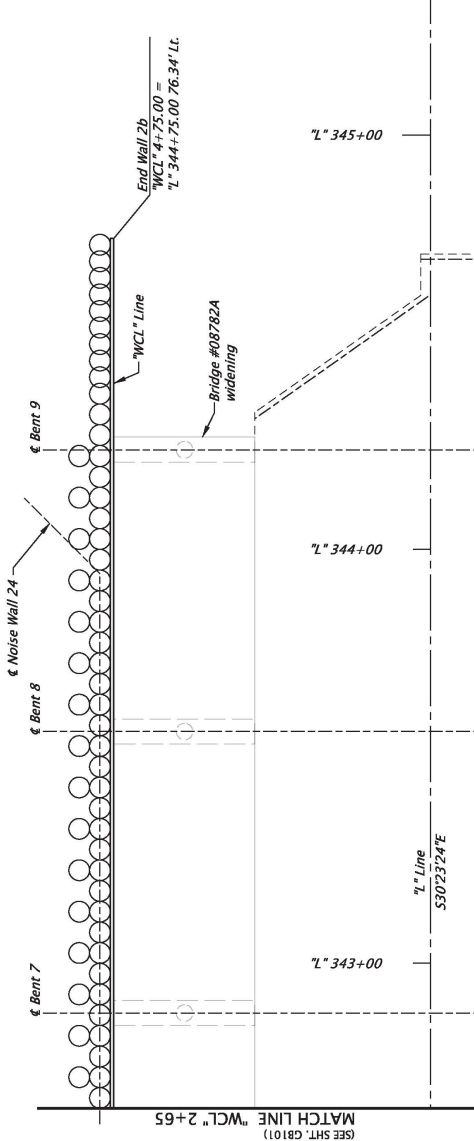
SHEET NO. GB101

RETAINING WALL - WALL 2b

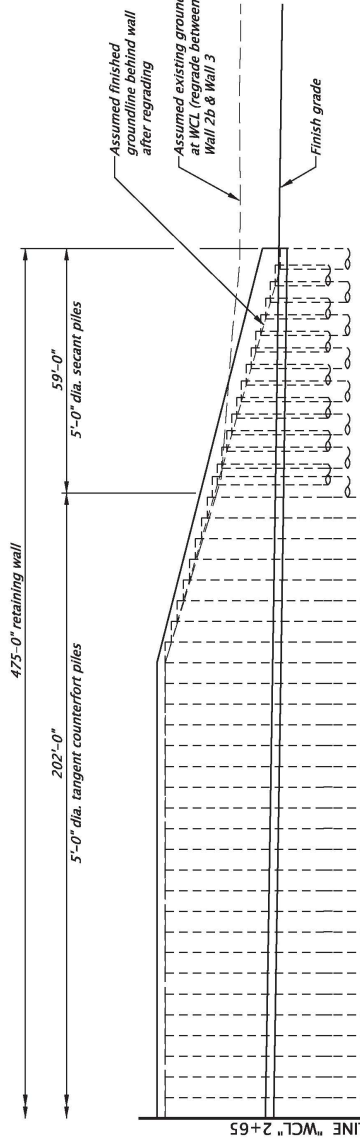
Rotation: 300.39' Scale: 1"=30'

CONCEPT DESIGN
INFORMATION ONLY

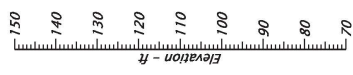
SCALE WARNING
IF THIS SCALE LINE DOES NOT
MEASURE ONE INCH, THEN
DRAWING IS NOT TO SCALE



PLAN - WALL 2b
Scale: 1"=30'



ELEVATION - WALL 2b
Scale: 1"=30'



For accompanied by drawings, see Sht. GB101

STRUCTURE NO.	00000
BUS RMS NO.	00000
CALC. BOOK	0000
HWY.	001
M.P.	302.65
COUNTY	Multnomah
DATE	10/01/2020

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

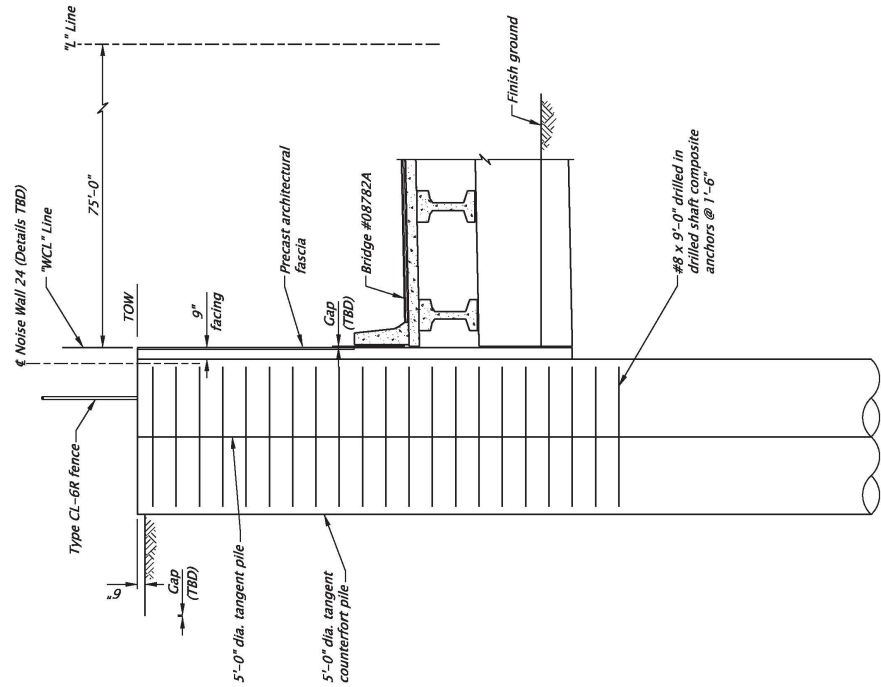
CONCEPT DESIGN
INFORMATION ONLY

DOWL
www.dowl.com

I-5 ROSE QUARTER IMPROVEMENT PROJECT
PACIFIC HIGHWAY
MULTNOMAH COUNTY

RETAINING WALL - WALL 2b

Rotation: 300.39° Scale: 1"=30'



5'-0" DIA. TANGENT PILE TYPICAL SECTION
 Scale: 1/8"=1'-0"

For accompanied by drawings, see Sht. GB101

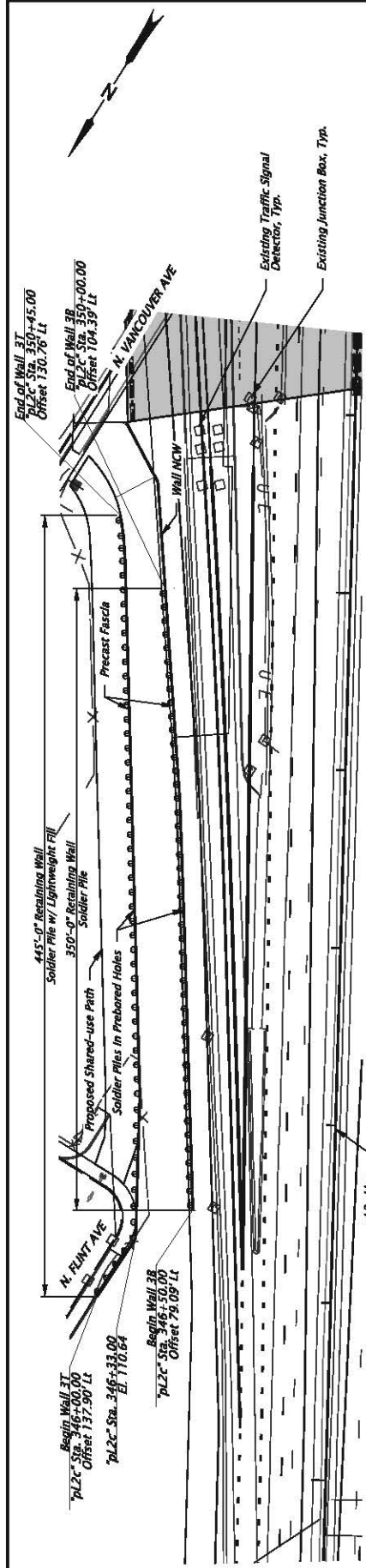
STRUCTURE NO. 00000	WWW.DOWL.COM	DOWL Elliott School Retaining Wall	
BUS DWG NO. 00000			
CALC. BOOK 0000		I-5 ROSE QUARTER IMPROVEMENT PROJECT PACIFIC HIGHWAY MULTNOMAH COUNTY	
HWY: 001 M.P.: 302.65		Designer: Peter R. Pappas, P.E., S.E. Reviewer: Douglas Mikheevich, P.E. Checker: Pete Stocum, P.E., S.E.	
COUNTY Multnomah		Drafter: Yuka Garzwell	
DATE 10/01/2020		SHEET NO. GB103	
		TYPICAL SECTION	

CONCEPT DESIGN
ACCEPTANCE PLANS
 INFORMATION ONLY

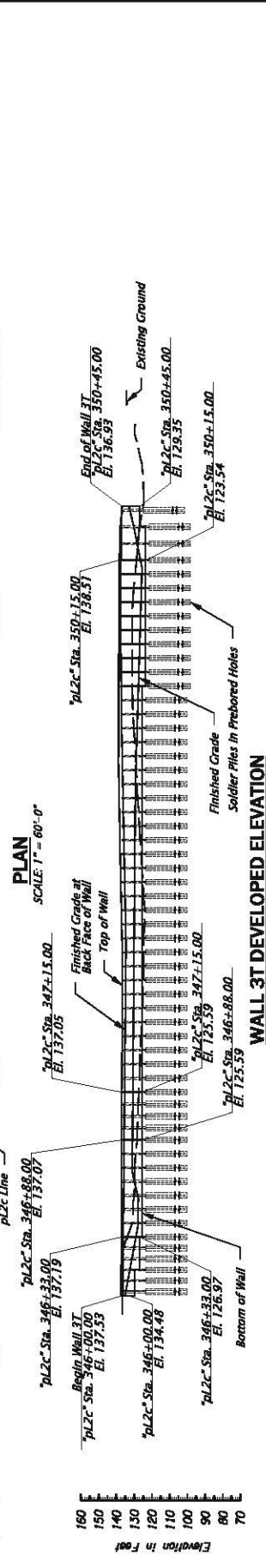
SCALE WARNING
 IF THE SCALE LINE DOES NOT
 MEASURE ONE INCH, THEN
 DRAWING IS NOT TO SCALE

FINAL ELECTRONIC DOCUMENT
 ANALYSIS FOR REQUEST

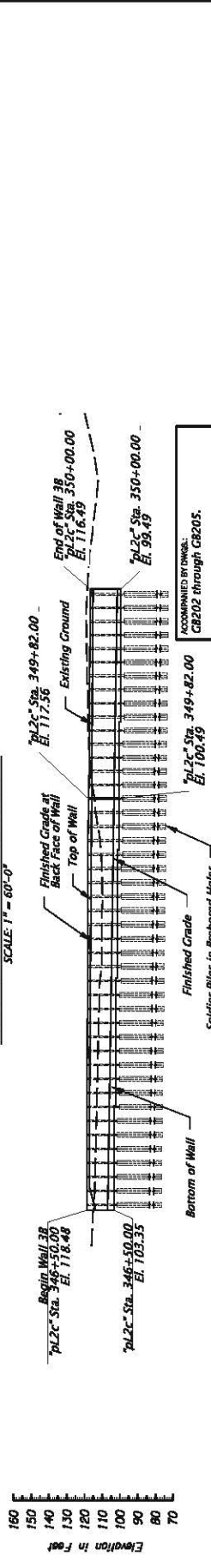
Rotation: 0° Scale: 1/8"=1'-0"



PLAN
SCALE: 1" = 60'-0"



WALL 3T DEVELOPED ELEVATION
SCALE: 1" = 60'-0"



WALL 3B DEVELOPED ELEVATION
SCALE: 1" = 60'-0"

EXCELTECH CONSULTING

UNIQUE RETAINING WALLS

I-5 ROSE QUARTER IMPROVEMENT PROJECT
CALIFORNIA HIGHWAY PATROL
MULTI-COUNTY

Designer: Heidi Chynthe
Director: Jamie Ferguson

Reviewed: Judith Dorfmeit
Checked: Patricia O'Neil

RETAINING WALL 3

SHEET NO.
GB203

Scale: 1"=60'

Rotation: 0°

CONCEPT DESIGN
REVISIONS ONLY

EXCELTECH CONSULTING
10000
10000
10000
10000
HW: DCL
M.P.: 00000000000

STRUCTURE NO.
00000

BOB BNO NO.
00000

CALC. BOOK
0000

COUNTY
Multnomah

DATE
MCO/YR

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

EXCELTECH CONSULTING
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HW: DCL
M.P.: 00000000000

STRUCTURE NO.
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BOB BNO NO.
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CALC. BOOK
0000

COUNTY
Multnomah

DATE
MCO/YR

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

EXCELTECH CONSULTING
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HW: DCL
M.P.: 00000000000

STRUCTURE NO.
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BOB BNO NO.
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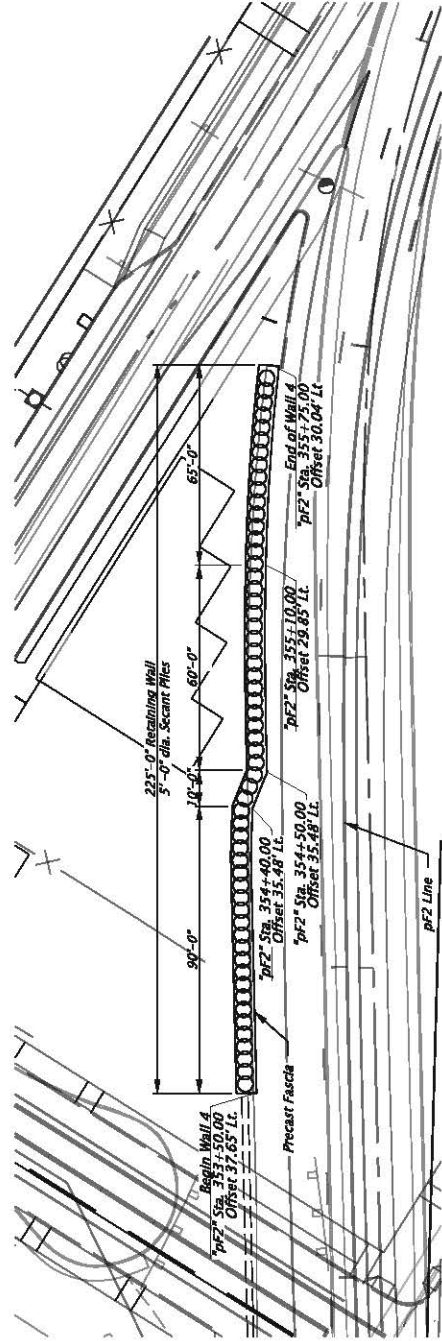
CALC. BOOK
0000

COUNTY
Multnomah

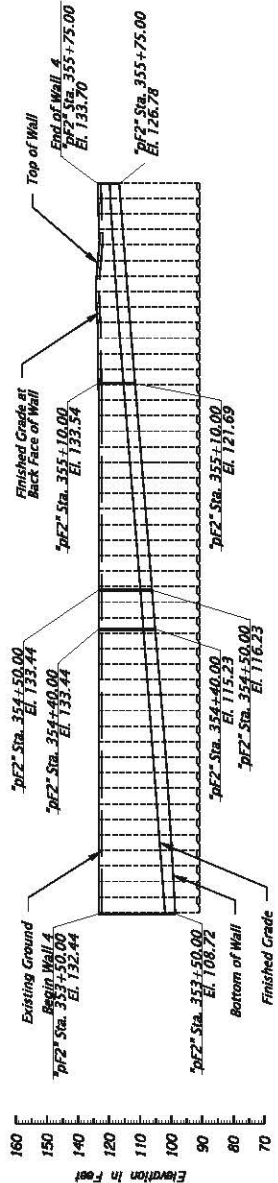
DATE
MCO/YR

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

Notes:
1. For Typical Wall Section and General Notes, see Draw. GB204.
2. Elevations shown are based on North American Vertical Datum 1988 (NAVD88).



PLAN
SCALE: 1" = 40'-0"



DEVELOPED WALL 4 ELEVATION
SCALE: 1" = 40'-0"

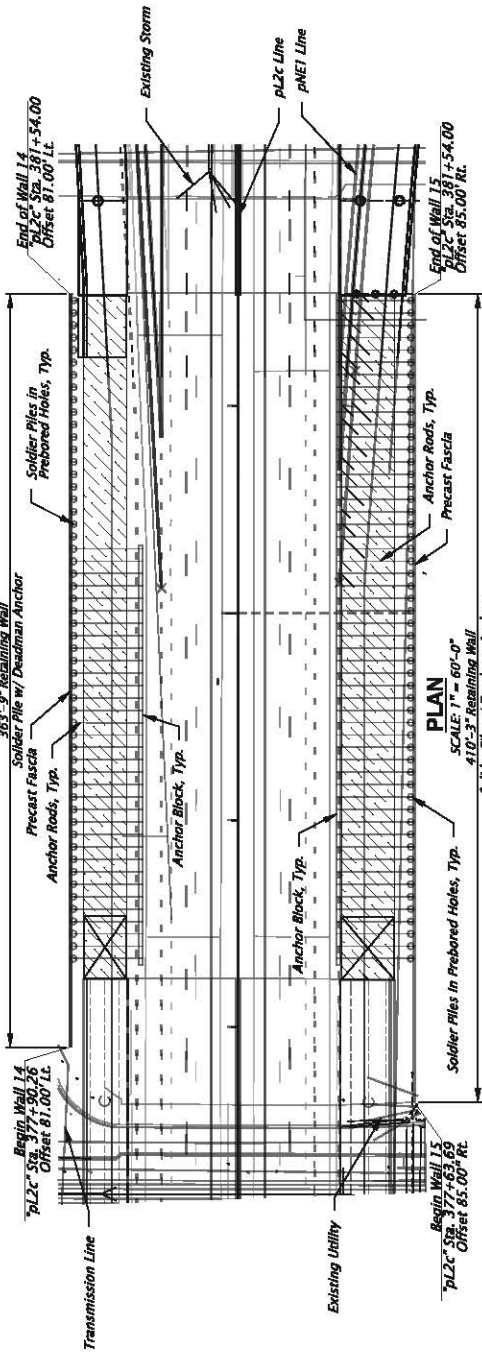
NOTES:
1. For Typical Wall Section and General Notes, see Dwg. GB204.
2. Elevations shown are based on North American Vertical Datum 1988 (NAVD88).

For accompanied by drawings, see sht. GB201

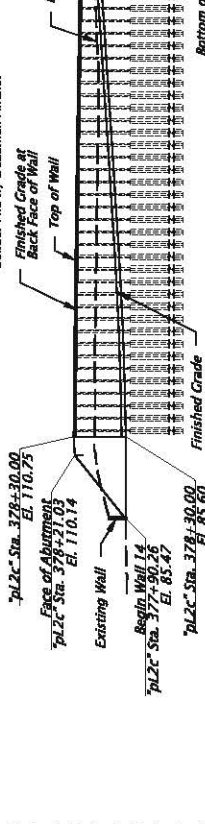
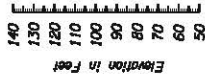
		EXCEL TECH CONSULTING UNIQUE RETAINING WALLS	
PROJECT INFORMATION I-5 ROSE QUARTER IMPROVEMENT PROJECT CALIFORNIA HIGHWAY MULTI-COUNTY		Designer: Heidi Chynite Designer: Jamie Ferguson Reviewer: Judith Dorfmeik Designer: Patricia Wall	
PROJECT DATA SHEET NO. GB202		PROJECT DATA RETAINING WALL 4	
PROJECT DATA STRUCTURE NO. 00000 BOS BNO NO. 00000 CALC. BOOK 0000 HW: DCL M.P.: 000.00-000.00		PROJECT DATA COUNTY Multnomah DATE M0/YR	

CONCEPT DESIGN
FOR PRELIMINARY REVIEW ONLY

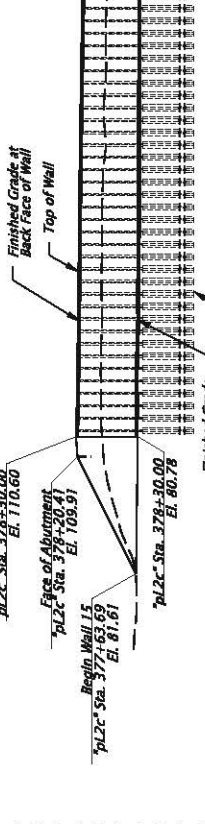
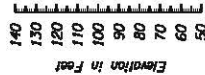
SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE



PLAN
SCALE: 1" = 60'-0"
4:10-3" Retaining Wall
Soldier Pile w/ Deadman Anchor



WALL 14 DEVELOPED ELEVATION
SCALE: 1" = 60'-0"



WALL 15 DEVELOPED ELEVATION
SCALE: 1" = 60'-0"

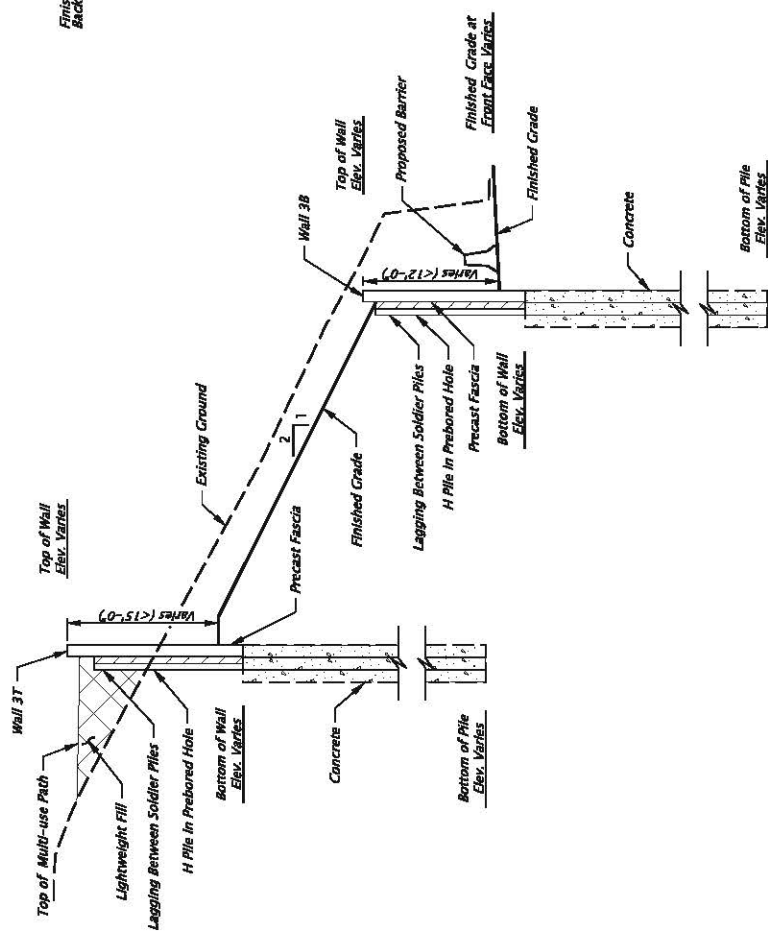
For accompanied by drawings, see sht. GB201

		UNIQUE RETAINING WALLS	
I-5 ROSE QUARTER IMPROVEMENT PROJECT MULTNOMAH COUNTY		Designer: Heidi Chynite Director: Jamie Ferguson	
SHEET NO. GB203		Revision: Justin Dornitnik Designer: Pedro O'Neil	
RETAINING WALL 14 & 15		Scale: 1"=60'	

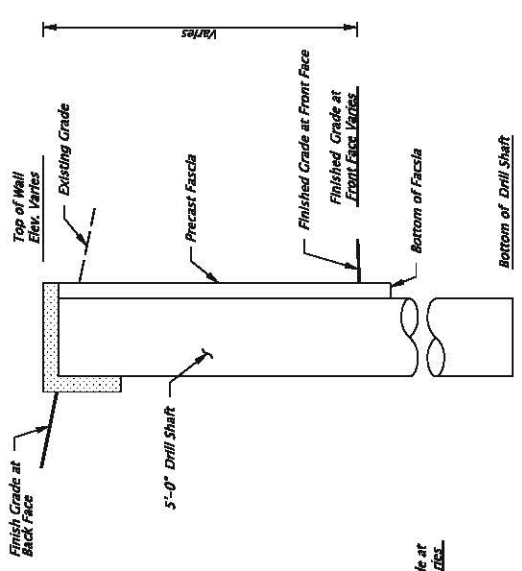
CONCEPT DESIGN PRELIMINARY ONLY	STRUCTURE NO. 00000
	BOS DRAW NO. 00000
	CALC. BOOK 0000
	HW: 001 M.P.: 000.000-000.000
COUNTY Multnomah	DATE MO/YR

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE!

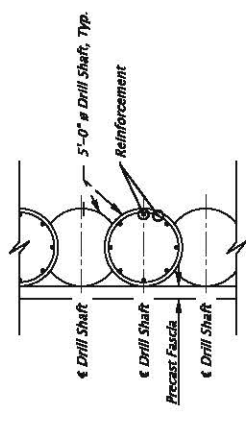
NOTES:
1. For Typical Wall Section and General Notes, see Dwg. GB205.
2. Elevations shown are based on North American Vertical Datum 1988 (NAVD88).



WALL 3 TYPICAL SECTION
SCALE: 1" = 10'-0"



WALL 4 TYPICAL SECTION
SCALE: 1" = 8'-0"




Partial Secant Pile Cross Section
SCALE: 1" = 8'-0"

For accompanied by drawings, see sht. GB201

STRUCTURE NO.	00000
BOS BNO NO.	00000
CALC. BOOK	0000
HW: DCL	
M.P.: 0000000000	
COUNTY	Multnomah
DATE	MO/YR

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE



EXCELTECH CONSULTING

UNIQUE RETAINING WALLS

I-5 ROSE QUARTER IMPROVEMENT PROJECT

CLATSOP COUNTY
MULTNOMAH COUNTY

Designer: Heidi Chynite
Director: Jamie Ferguson

Reviewed: Justin Dornithik
Checker: Patrick O'Neil

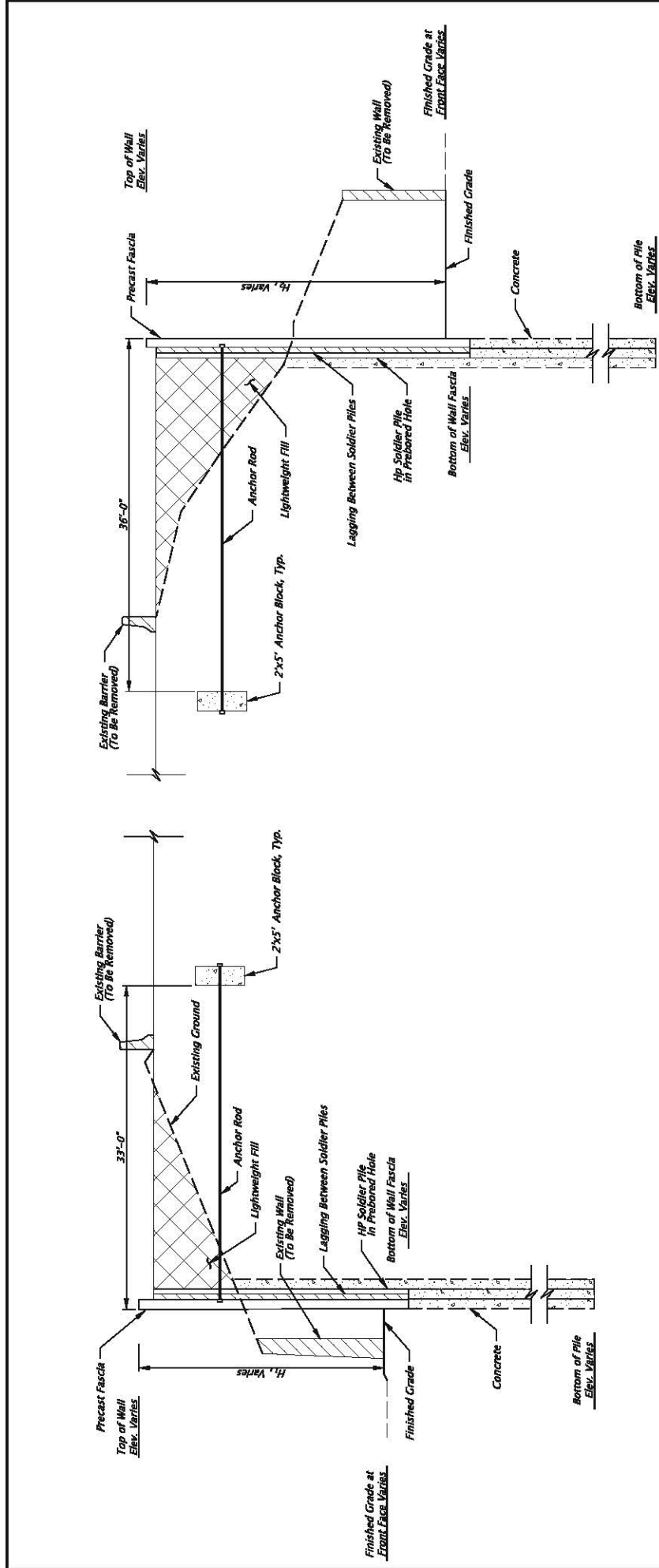
WALL TYPICAL SECTION

SHEET NO. GB204

CONCEPT DESIGN
FOR PRELIMINARY REVIEW ONLY

FINAL DESIGNING SOCIETY
ANALYSIS REPORT REQUIRED

Location: 0' Scale: 1" = 8'



WALL 14

WALL 15

WALL 14 & 15 TYPICAL SECTION
SCALE: 1" = 10'-0"

For accompanied by drawings, see airt. GB201

		UNIQUE RETAINING WALLS	
I-5 ROSE QUARTER IMPROVEMENT PROJECT ALBUQUERQUE, NEW MEXICO MULTITHROW COUNTY		Designer: Heidi Clayville Drafter: Jamie Ferguson	
Reviewer: Justin Doemthik Checker: Patrick O'Neil		SHEET NO. GB205	
WALL TYPICAL SECTION		Rotation: 0° Scale: 1" = 10'	

CONCEPT DESIGN
FOR REVIEW ONLY

STRUCTURE NO.	00000
REV. NO. INCL.	00000
CALC. BOOK	00000
DATE	MO/YR
COUNTY	Multnomah
DATE	MO/YR

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DIMENSIONS ARE TO SCALE