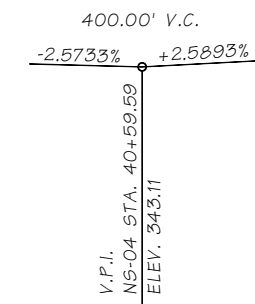


UNLESS NOTED OTHERWISE

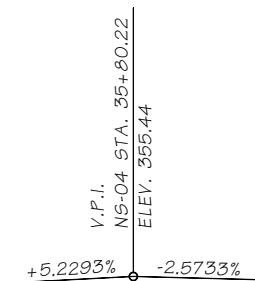
WF66G P.C. GIRDERS
"A" DIMENSION = 11 1/4" (PRELIMINARY - NOT FOR DESIGN)
DECK PROTECTIVE SYSTEM 1 (EPOXY COATED REBAR)
CAST-IN-PLACE CONCRETE STRENGTH SHALL BE 4000 PSI

I-5
JOB NO. 7531
SHEET 1 OF 6

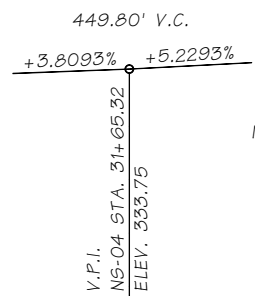
SEC. 21 & 28 T.21N., R.4E., W.M.
CITY OF FEDERAL WAY



NS-04 LINE
PROFILE



NS-04 LINE
PROFILE



NS-04 LINE
PROFILE

NOTE:
ALL EXISTING UTILITY
LINES SHALL REMAIN
UNLESS OTHERWISE NOTED.

PLAN APPROVED BY:

Richard Stoddard (for) 5/16
BRIDGE DESIGN ENGINEER

ENGINEERING MANAGER

DATUM

NAVD 88

REFERENCE LINE
ELEVATION 285.0

ELEVATION

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF
BRIDGE DECK ON NS-04 LINE AND ARE EQUAL TO PROFILE GRADE.

Bridge Design Engr. Stoddard, RB (for)	5/16	M:\PRELIMINARY PLANS\I-5 • SR 161-SR 18 I-C STAGE 2\NS-04 BRIDGE\NS-04 LAYOUT 1.MAN					
Supervisor				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By				10	WASH.		TOTAL SHEETS
Checked By	Bauer, MH	5/16		JOB NUMBER			
Detailed By	Waldron, G	5/16					
Bridge Projects Engr.							
Prelim. Plan By	We1, J	5/16					
Architect/Specialist	PDK/BSA/GAW	5/16	DATE	REVISION	BY	APP'D	

Fri May 13 08:48:53 2016

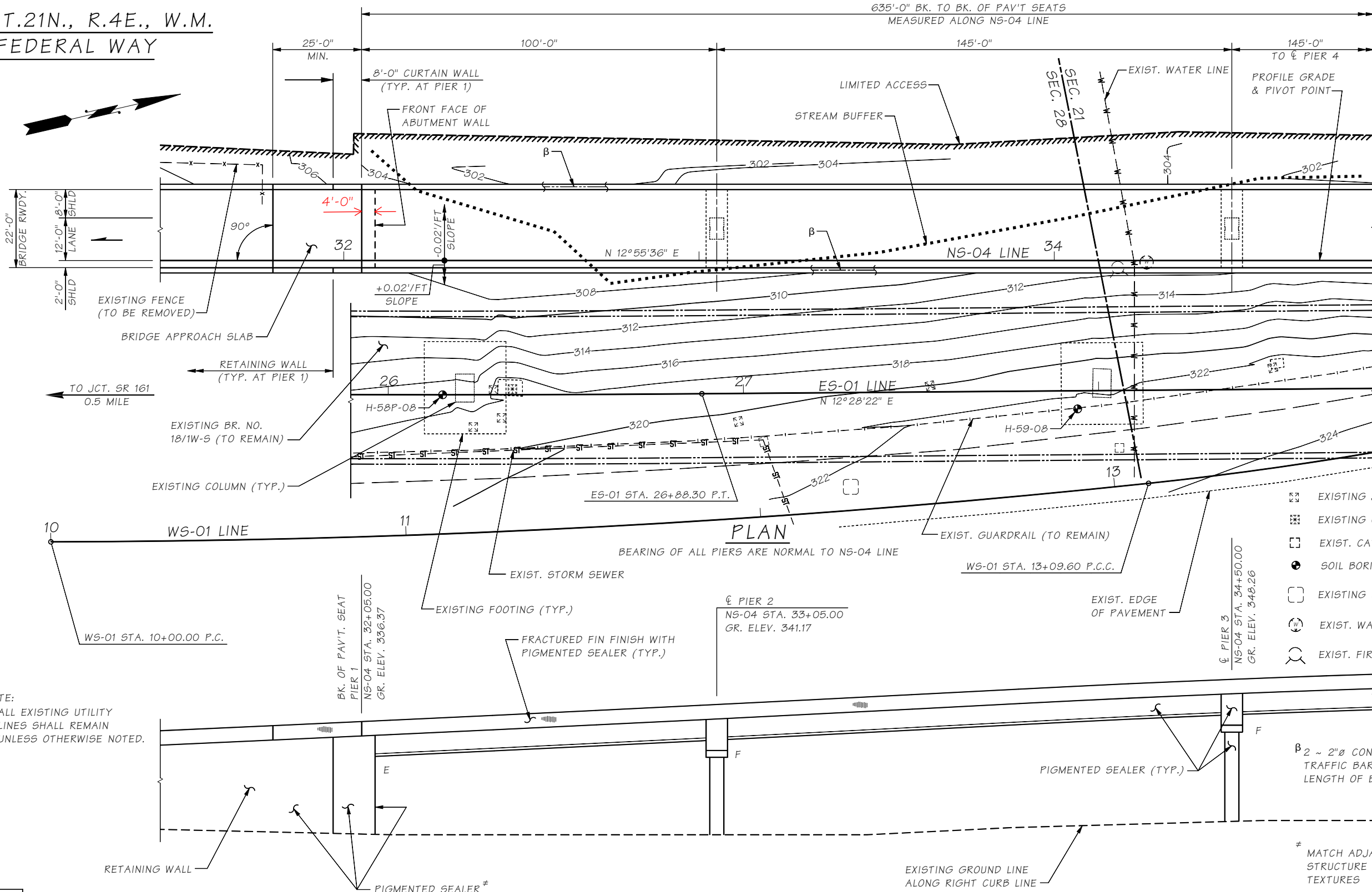
BRIDGE
AND
STRUCTURES
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Department of Transportation
NOT FOR CONSTRUCTION

PRELIMINARY PLAN

BRIDGE
SHEET NO.
1
OF
SHEETS



- EXISTING J BOX
- EXISTING CONTROL CABINET
- EXIST. CATCH BASIN
- SOIL BORING LOCATIONS
- EXISTING UTILITY VAULT
- EXIST. WATER VALVE BOX
- EXIST. FIRE HYDRANT

2" - 2"Ø CONDUIT PIPES IN
TRAFFIC BARRIER FOR FULL
LENGTH OF BARRIER

MATCH ADJACENT
STRUCTURE WALL
TEXTURES

SR 18

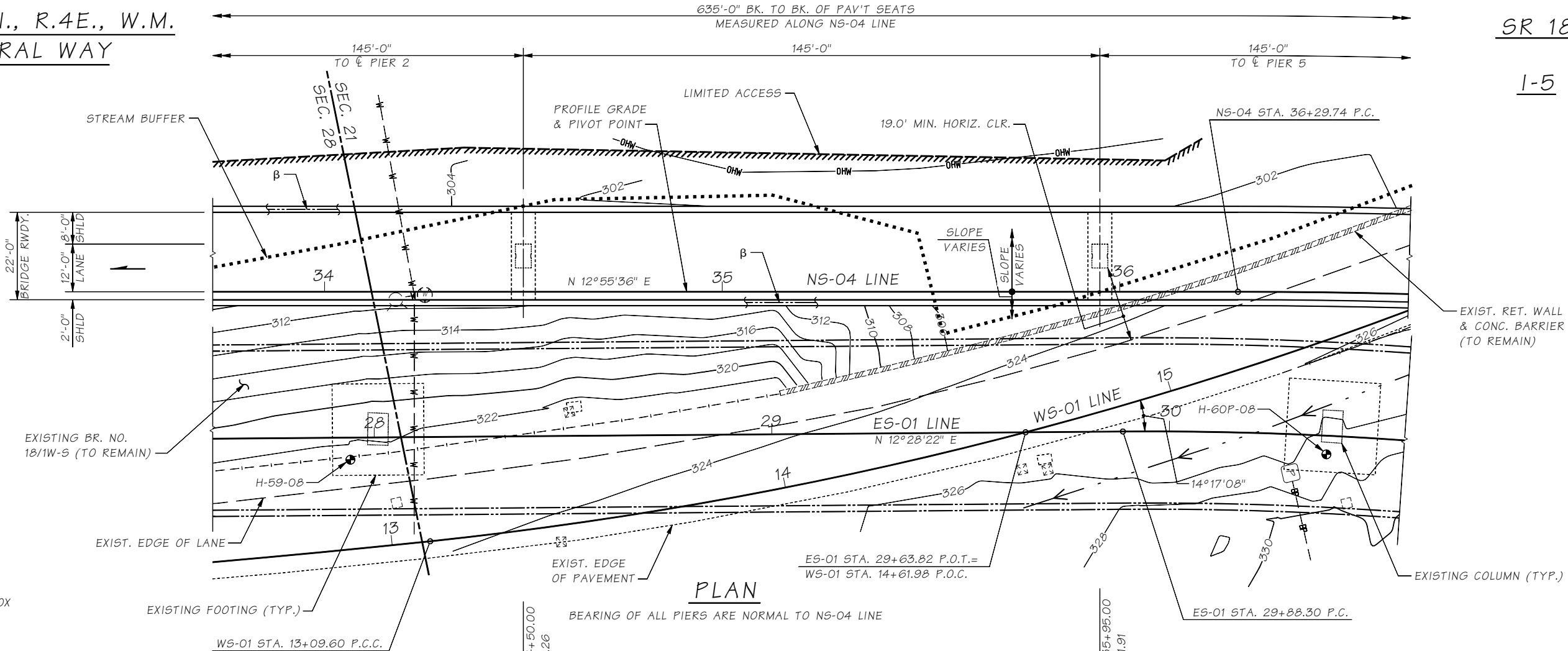
I-5

C.S. 1727 ~ PROJ. NO. XL4359 ~ NORTHWEST REGION ~ I-5 ~ M.P. 141.40 TO M.P. 142.80 ~ SR 161/SR 18 INTERCHANGE IMPROVEMENTS STAGE 2 ~ NS-04 BRIDGE ~ NEW STRUCTURE

SEC. 21 & 28 T.21N., R.4E., W.M.
CITY OF FEDERAL WAY

SR 18

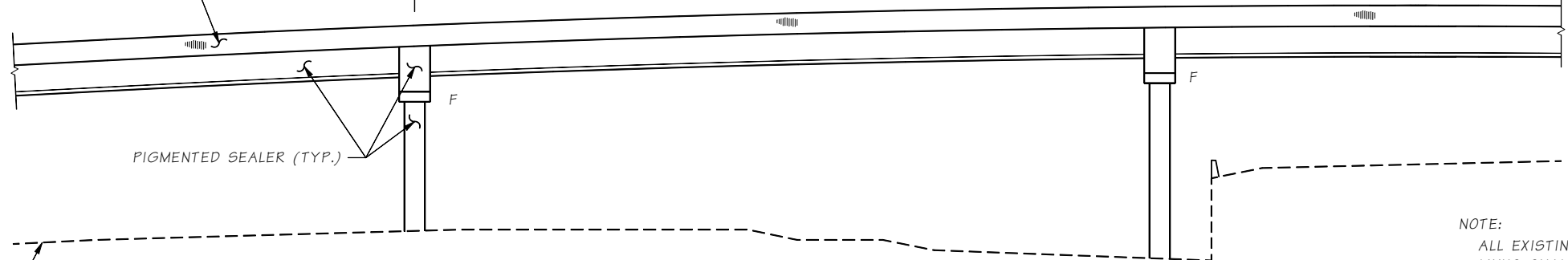
1-5



PLAN

BEARING OF ALL PIERS ARE NORMAL TO NS-04 LINE

WS-01 STA. 13+09.60 P.C.C.
PIER 3
NS-04 STA. 34+50.00
GR. ELEV. 348.26
PIER 4
NS-04 STA. 35+95.00
GR. ELEV. 351.91



ELEVATION

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF
BRIDGE DECK ON NS-04 LINE AND ARE EQUAL TO PROFILE GRADE.

NOTE:
ALL EXISTING UTILITY
LINES SHALL REMAIN
UNLESS OTHERWISE NOTED.

DATUM
NAVD 88

- 2 ~ 2"Ø CONDUIT PIPES IN TRAFFIC BARRIER FOR FULL LENGTH OF BARRIER
- EXISTING J BOX
- EXIST. CATCH BASIN
- EXIST. WATER VALVE BOX
- EXIST. FIRE HYDRANT
- SOIL BORING LOCATIONS
- EXIST. UNDER GROUND POWER VAULT
- EXISTING DITCH LINE (TO REMAIN)
- EXIST. BURIED POWER
- EXIST. WATER LINE
- EXIST. GUARDRAIL (TO REMAIN)
- ORDINARY HIGH WATER

Bridge Design Engr. Stoddard, RB (for)		5/16	M:\PRELIMINARY PLANS\I-5 • SR 161-SR 18 I-C STAGE 2\NS-04 BRIDGE\NS-04 LAYOUT 2.MAN							
Supervisor						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By						10	WASH.			
Checked By Bauer, MH		5/16								
Detailed By Waldron, G		5/16								
Bridge Projects Engr.										
Prelim. Plan By wei, J		5/16				JOB NUMBER				
Architect/Specialist PDK/BSA/GAW		5/16	DATE	REVISION	BY	APPD				

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C.S. 1727 ~ PROJ. NO. XL4359 ~ NORTHWEST REGION ~ 1-5 ~ M.P. 141.40 TO M.P. 142.80 ~ SR 161/SR 18 INTERCHANGE IMPROVEMENTS STAGE 2 ~ NS-04 BRIDGE ~ NEW STRUCTURE

PT. OF MIN. VERT. CLR.
NS-04 STA. 36+89.67 (0.85' RT.) =
WS-01 STA. 15+79.92 (3.53' RT.)

1-5 JOB NO. 1531 SHEET 3 OF 6

DATUM
NAVD 88

REFERENCE LINE
ELEVATION 285.0

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF
BRIDGE DECK ON NS-04 LINE AND ARE EQUAL TO PROFILE GRADE.
SEE STD. PLAN A-50.10-01 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.

Bridge Design Engr. Stoddard, RB (for)	5/16	M:\PRELIMINARY PLANS\I-5 • SR 161-SR 18 I-C STAGE 2\NS-04 BRIDGE\NS-04 LAYOUT 3.MAN					
Supervisor				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By				10	WASH.		TOTAL SHEETS
Checked By Bauer, MH	5/16			JOB NUMBER			
Detailed By waldron, G	5/16						
Bridge Projects Engr.							
Prelim. Plan By Wei, J	5/16						
Architect/Specialist PDK/BSA/GAW	5/16	DATE	REVISION	BY	APP'D		

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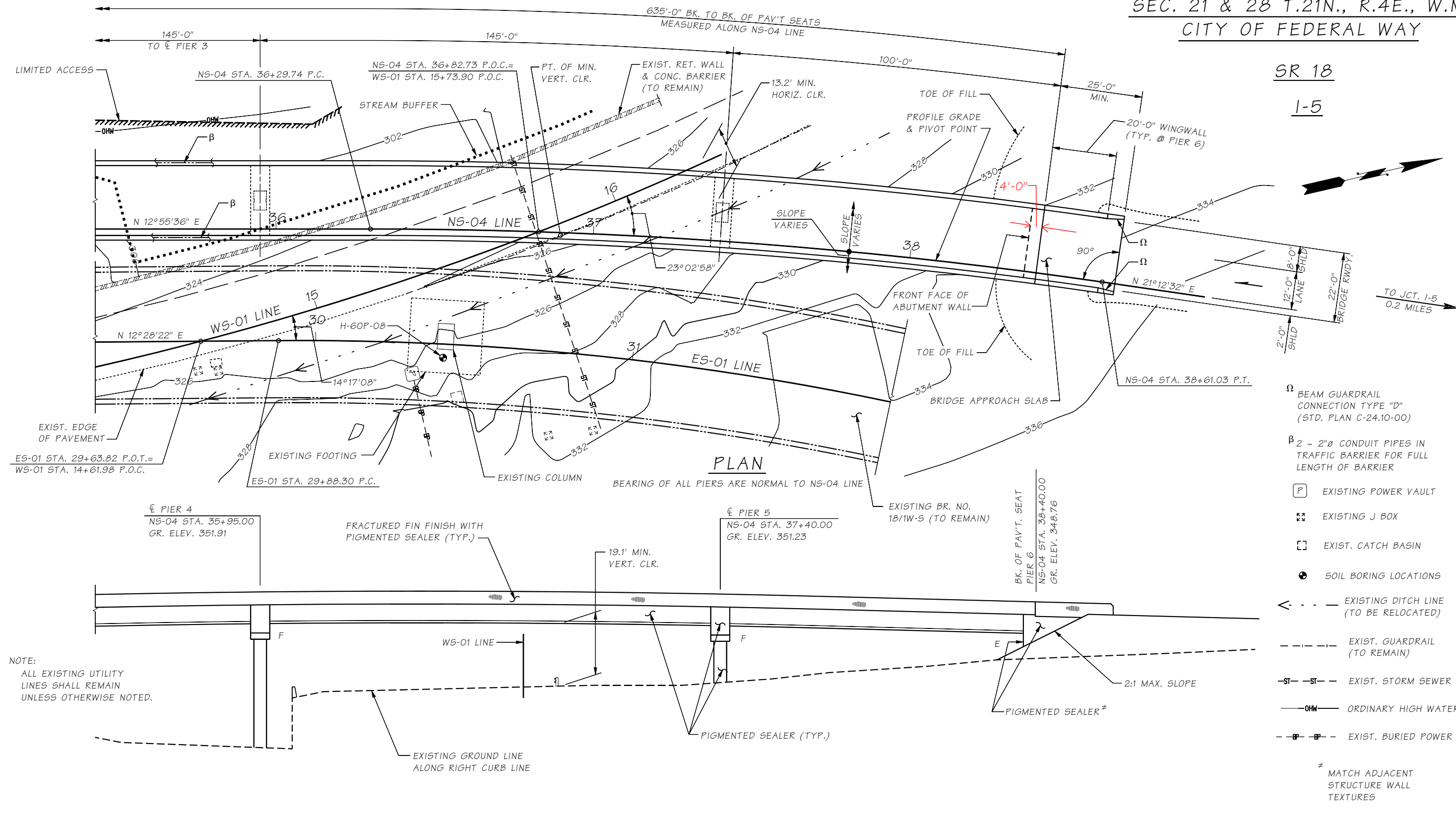
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PRELIMINARY PLAN

BRIDGE
SHEET
NO.
3
SHEET
OF
SHEETS

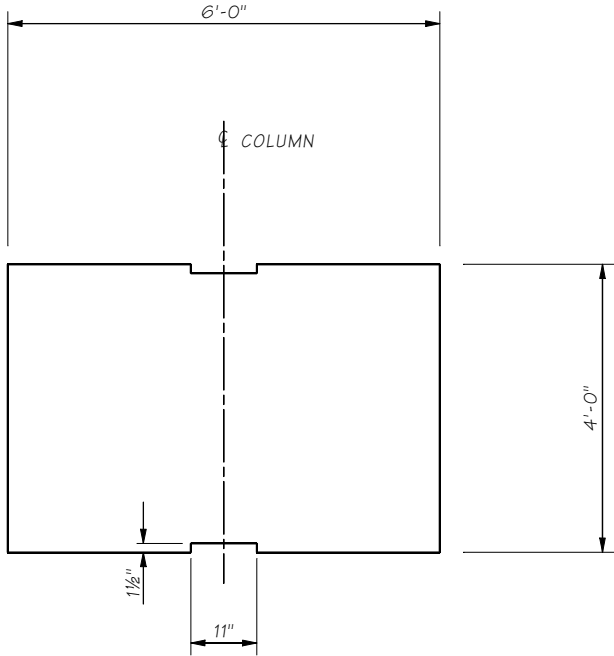
SEC. 21 & 28 T.21N., R.4E., W.M.
CITY OF FEDERAL WAY

SR 18
I-5

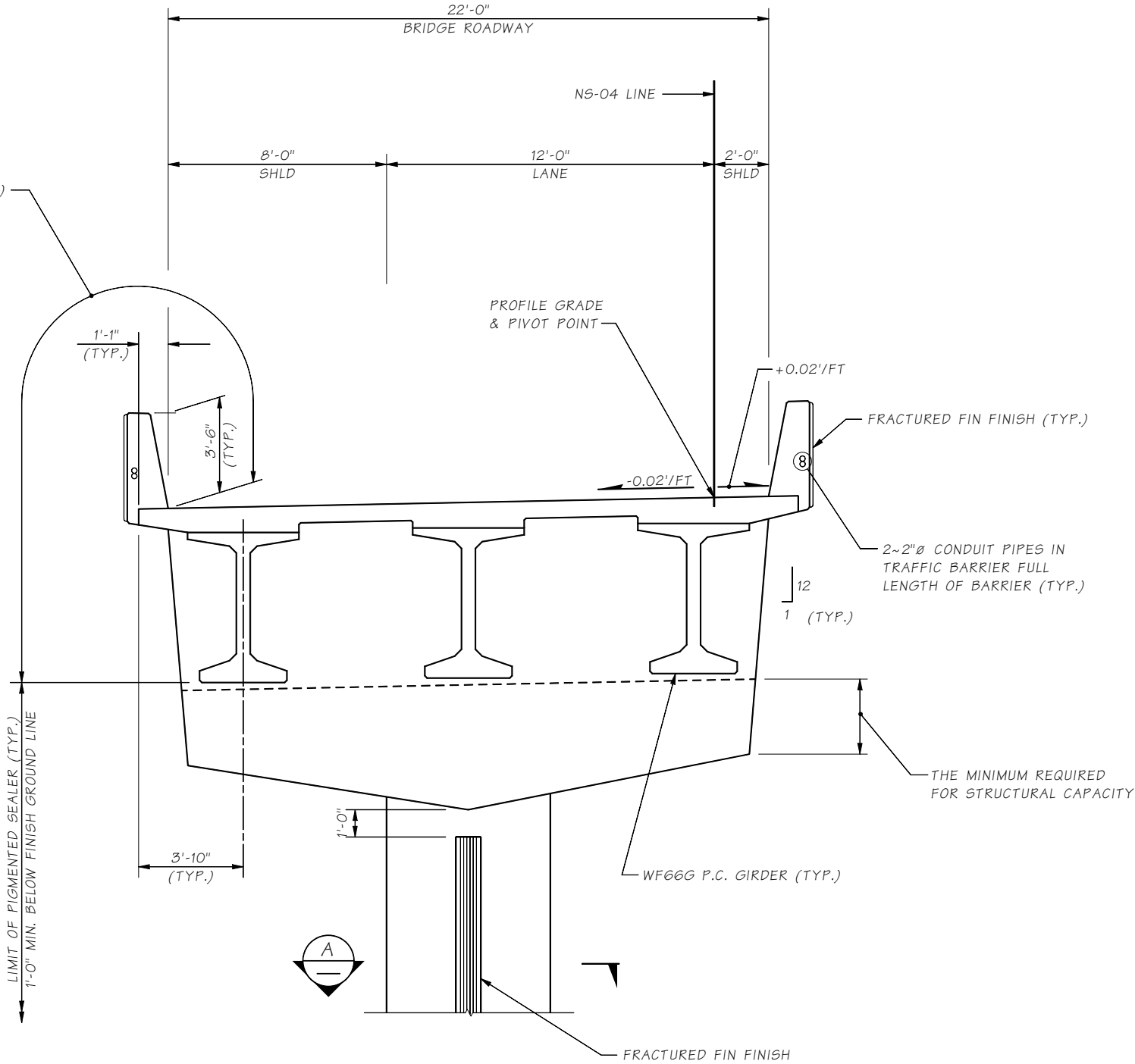


C.S. 1727 ~ PROJ. NO. XL4359 ~ NORTHWEST REGION ~ I-5 ~ M.P. 141.40 TO M.P. 142.80 ~ SR 161/SR 18 INTERCHANGE IMPROVEMENTS STAGE 2 ~ NS-04 BRIDGE ~ NEW STRUCTURE

CURVE DATA					
P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
NS-04 37+45.59	8°16'56" RT.	1600.00'	115.84'	231.28'	N 12°55'36" E
ES-01 26+35.40	0°39'32" LT.	9200.00'	52.90'	105.81'	N 13°07'54" E
ES-01 32+99.93	38°11'50" RT.	900.00'	311.63'	600.00'	N 12°28'22" E
WS-01 11+54.94	5°54'47" LT.	3000.00'	154.94'	309.60'	N 12°49'50" E
WS-01 16+50.88	37°41'13" LT.	1000.00'	341.27'	657.76'	N 6°55'04" E



SECTION A



TYPICAL SECTION

SHOWN NEAR PIER 2
SUBSTRUCTURE DIMENSIONS SHOWN ARE APPROXIMATE

Bridge Design Engr. Stoddard, RB (For)	5/16	M:\PRELIMINARY PLANS\I-5 • SR 161-SR 18 I-C STAGE 2\NS-04 BRIDGE\NS-04 TYP SEC A.MAN					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor							10	WASH.			
Designed By							JOB NUMBER				
Checked By Bauer, MH	5/16										
Detailed By Waldron, G	5/16										
Bridge Projects Engr.											
Prelim. Plan By Wei, J	5/16										
Architect/Specialist PDK/BSA/GAW	5/16	DATE	REVISION	BY	APP'D						

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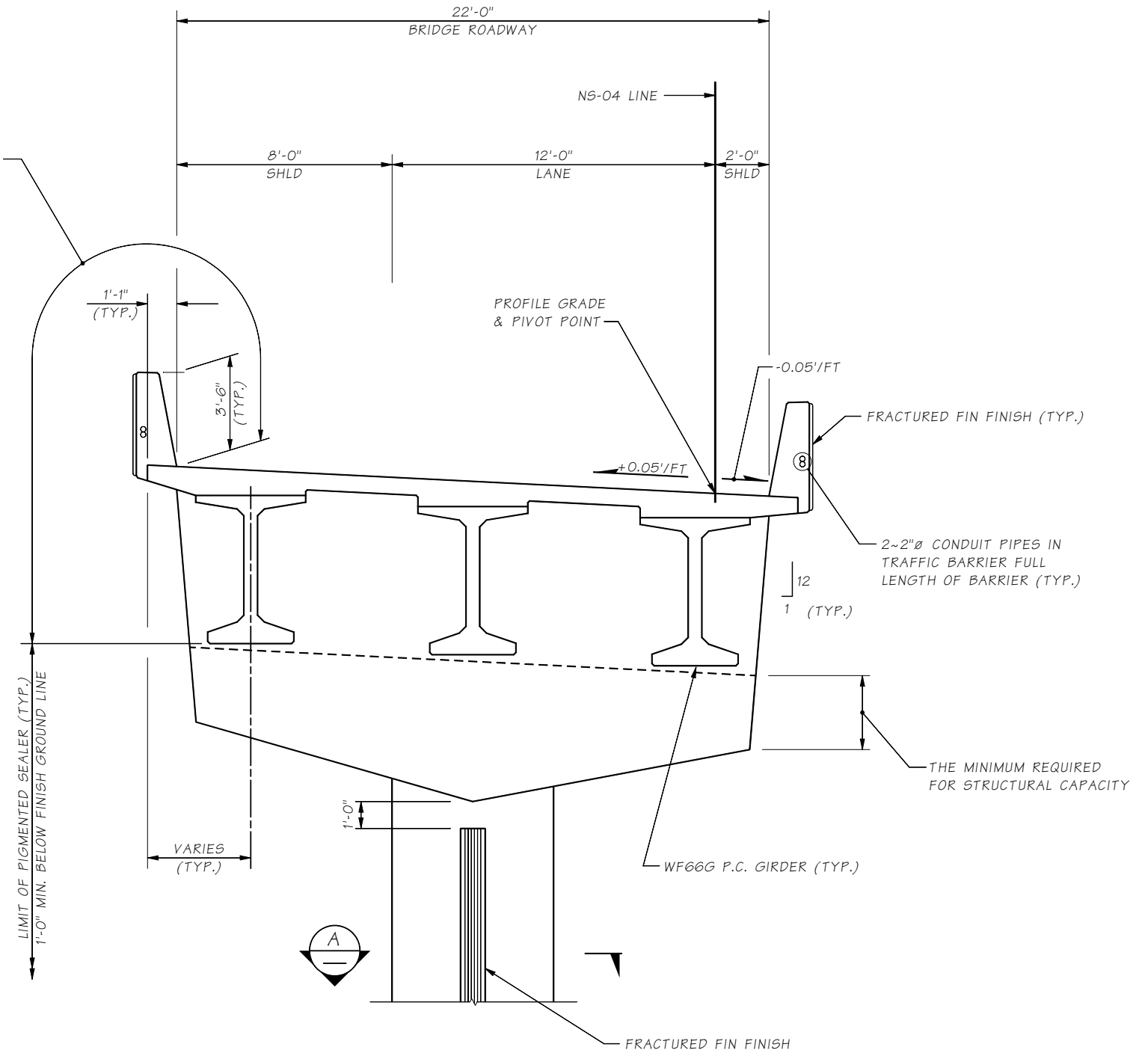
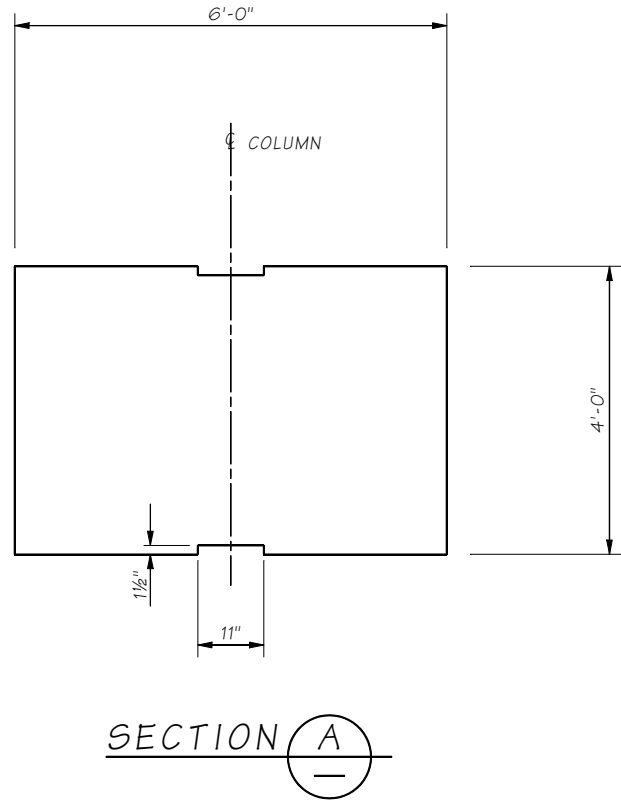
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STRUCTURES
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PRELIMINARY PLAN

BRIDGE
SHEET
NO.
4
SHEET
OF
SHEETS



TYPICAL SECTION
SHOWN NEAR PIER 5
SUBSTRUCTURE DIMENSIONS SHOWN ARE APPROXIMATE

Bridge Design Engr. Stoddard, RB (For)	5/16	M:\PRELIMINARY PLANS\I-5 • SR 161-SR 18 I-C STAGE 2\NS-04 BRIDGE\NS-04 TYP SEC B.MAN					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor							10	WASH.			
Designed By							JOB NUMBER				
Checked By Bauer, MH	5/16										
Detailed By Waldron, G	5/16										
Bridge Projects Engr.											
Prelim. Plan By Wei, J	5/16										
Architect/Specialist PDK/BSA/GAW	5/16	DATE	REVISION	BY	APP'D						

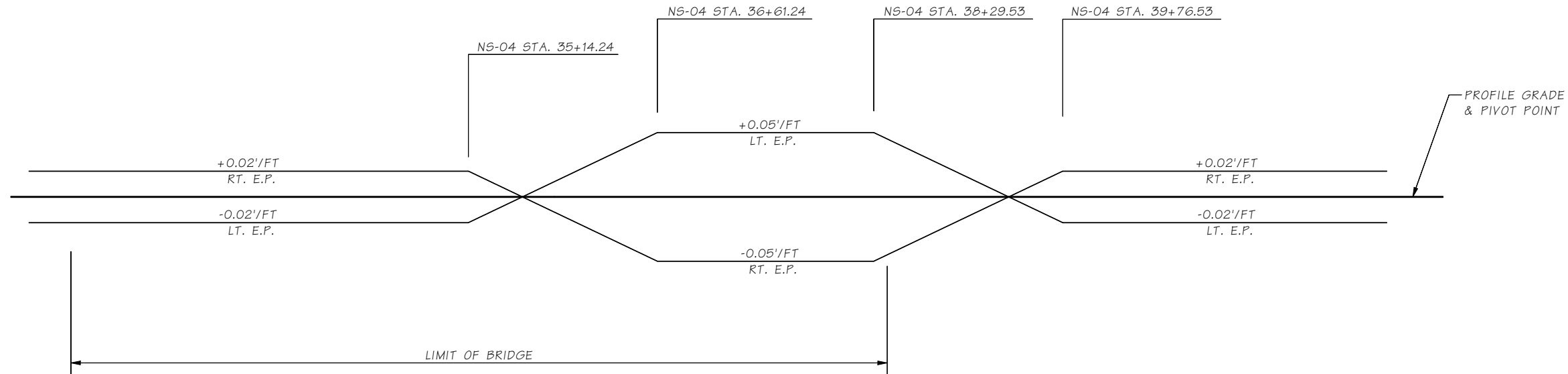
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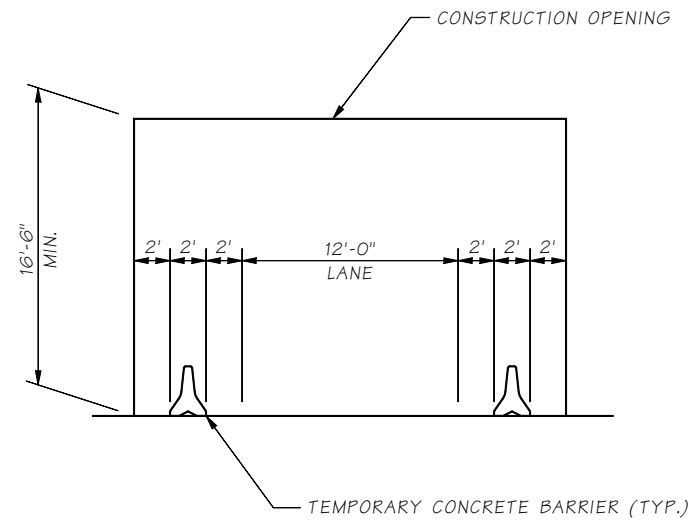
PRELIMINARY PLAN		BRIDGE SHEET NO. 5
		SHEET OF SHEETS



NS-04 LINE SUPERELEVATION DIAGRAM

NOTES TO REGION

- PLEASE VERIFY IF THERE WILL BE ANY PROPOSED NEW UTILITY LINES ON THE BRIDGE.
- PLEASE VERIFY IF THERE WILL BE ANY NEW SIGNS OR LUMINAIRES MOUNTED ON THE BRIDGE. IF SO, PLEASE PROVIDE TYPE, SIZE AND LOCATION ON THE BRIDGE.
- PLEASE CONFIRM OR CORRECT THE INTERSECTION ANGLE AND THE STATIONS SHOWN AT THE INTERSECTIONS OF NS-04 LINE AND WS-01 LINE.



CONSTRUCTION OPENING
EB SR 18 TO SB I-5 ON-RAMP

WS-01 STATION	OFFSET TO LEFT FACE OF BARRIER (FT.)	ELEVATION	OFFSET TO RIGHT EDGE OF PAVEMENT (FT.)	ELEVATION
15+05	23.05	323.84	4.23	325.71
15+10	23.04	323.87	4.18	325.74
15+15	23.01	323.91	4.16	325.77
15+20	22.95	323.94	4.15	325.80
15+25	22.87	323.98	4.18	325.83
15+30	22.89	324.01	4.11	325.93
15+35	22.99	324.04	4.03	326.04
15+40	23.07	324.08	3.88	326.08
15+45	23.13	324.11	3.75	326.12
15+50	23.16	324.14	3.64	326.16
15+55	23.16	324.18	3.56	326.20
15+60	23.15	324.21	3.50	326.24
15+65	23.10	324.24	3.47	326.28
15+70	23.04	324.28	3.47	326.32
15+75	23.07	324.34	3.49	326.35
15+80	23.16	324.41	3.53	326.39
15+85	23.22	324.48	3.60	326.43
15+90	23.26	324.55	3.69	326.47
15+95	23.27	324.63	3.65	326.54
16+00	23.25	324.70	3.55	326.62
16+05	23.22	324.77	3.47	326.71
16+10	23.16	324.85	3.43	326.79
16+15	23.07	324.92	3.40	326.87
16+20	22.96	324.99	3.40	326.95
16+25	22.99	325.08	3.43	327.03

TABLE OF EXISTING WS-01 LINE
ROADWAY SURFACE ELEVATIONS

Bridge Design Engr. Stoddard, RB (For)	5/16	M:\PRELIMINARY PLANS\I-5 • SR 161-SR 18 I-C STAGE 2\NS-04 BRIDGE\NS-04 MISC DETAILS.MAN
Supervisor		
Designed By		
Checked By Bauer, MH	5/16	
Detailed By Waldron, G	5/16	
Bridge Projects Engr.		
Prelim. Plan By Wei, J	5/16	
Architect/Specialist PDK/BSA/GAW	5/16	DATE REVISION BY APP'D

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PRELIMINARY PLAN

BRIDGE
SHEET
NO.
6
SHEET
OF
SHEETS