DOCUMENT CONTROL PROCESSING FORM

File Number:	DESN0218 Item No. 02		
Document Date:	12/21/21		
Document Type:	Plans		
DCPF Author:	Rachel Altona		
Subject:	Final: Drainage Plans and Profiles		
To (Company):	WSDOT	To (Individual):	Wendi Dubach / Feather Gordon
From (Company):	Jacobs	From (Individual):	Heather Weeks
Additional Subject Information and/or Keywords		Schedule Activity:	N/A

Technical Requirements Referenced: TR2.14

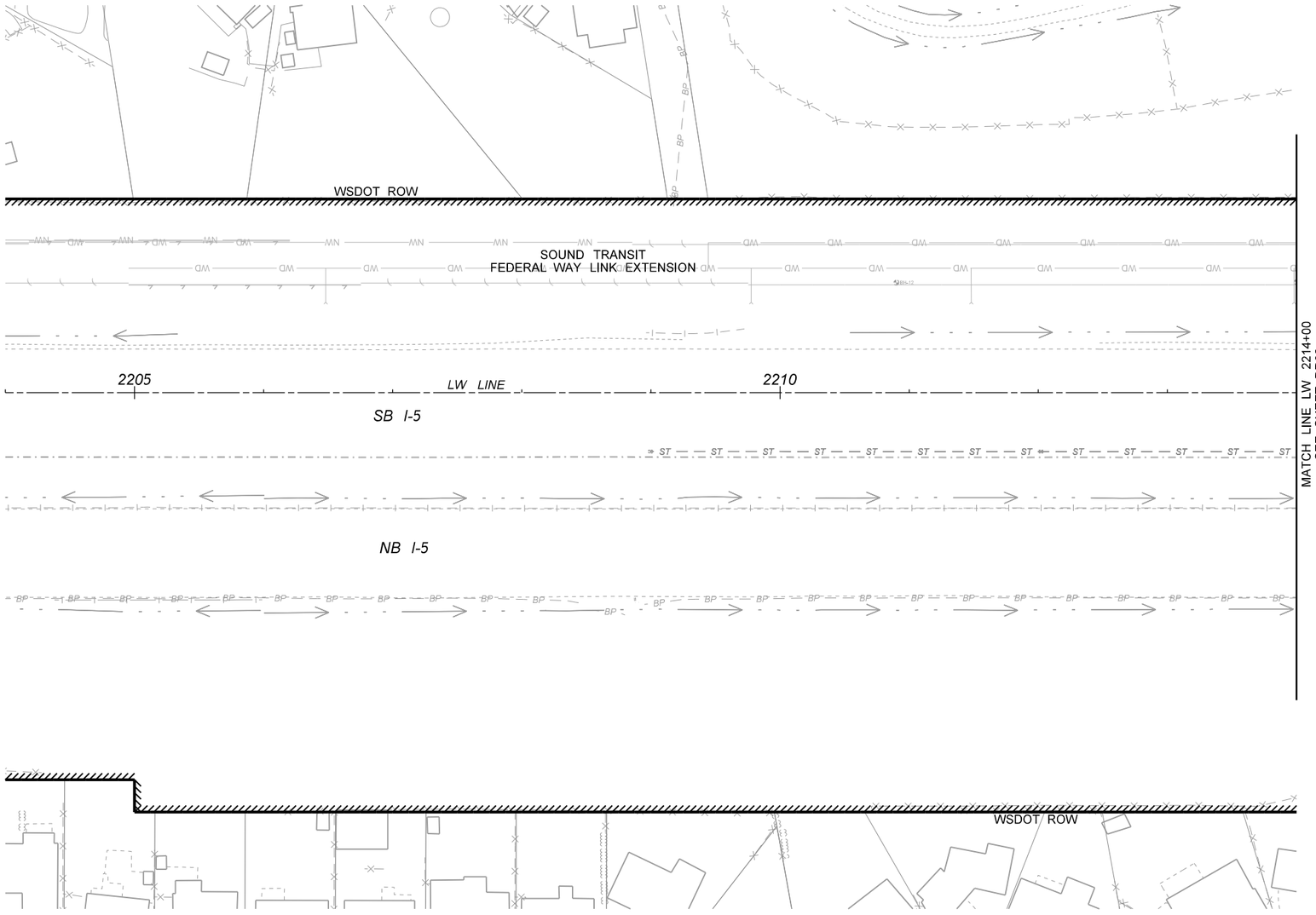
Distribution:	Attachments	Yes	No
C9424 Gatekeeper SR 509			
C9424 WSDOT SR509	Notes:		
SR509 Drainage Review Distribution Group			
0			
0			

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- DR02 — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR01.dgn						
TIME	6:08:23 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.
C9424		

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON CONSTRUCTION / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR01

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

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0 50 100
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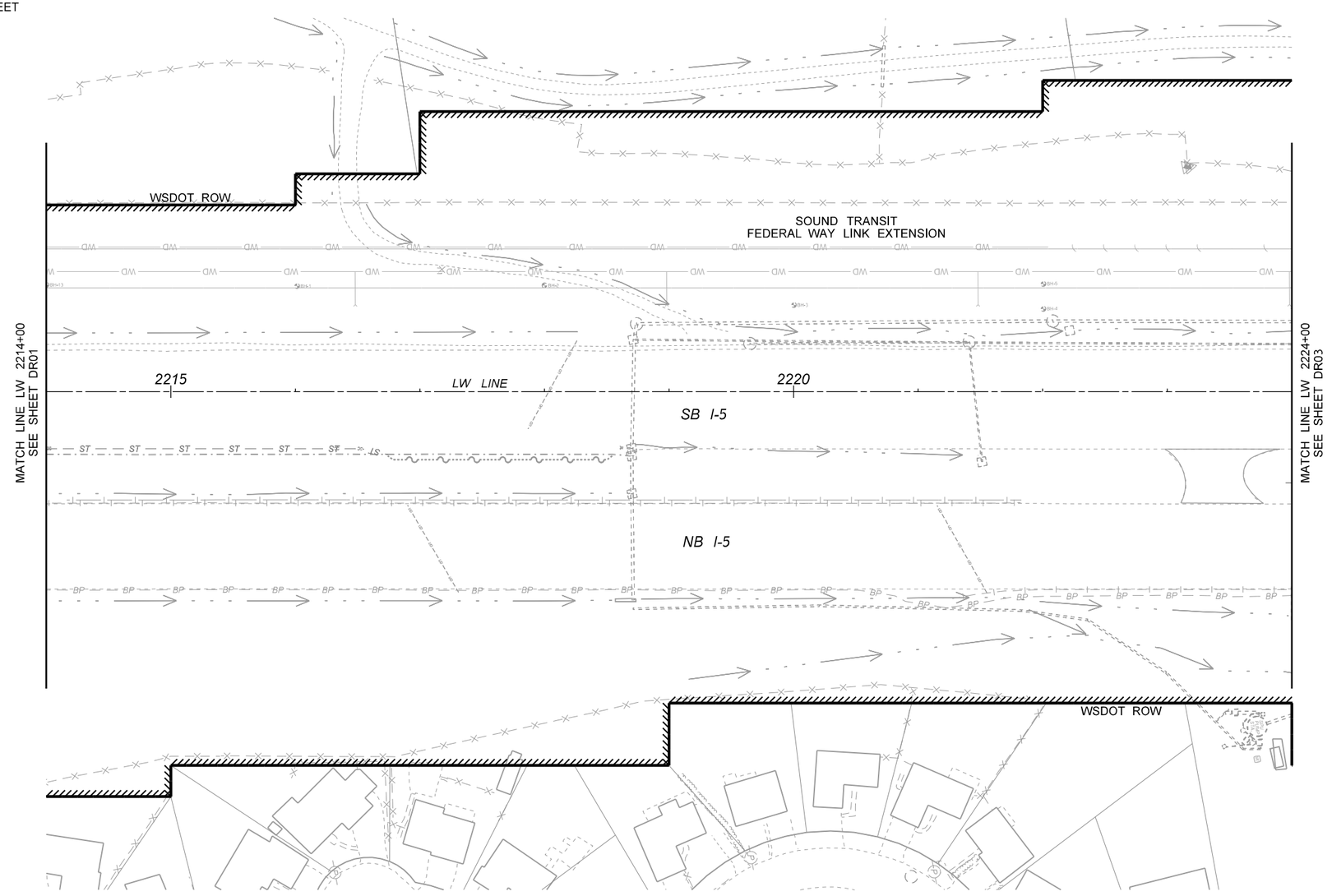

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- PROPOSED CULVERT
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- BR — BR — PROPOSED BIORETENTION
- SPLASH PAD — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR02.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:09:29 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		C9424		
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON CONSTRUCTION / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR02

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

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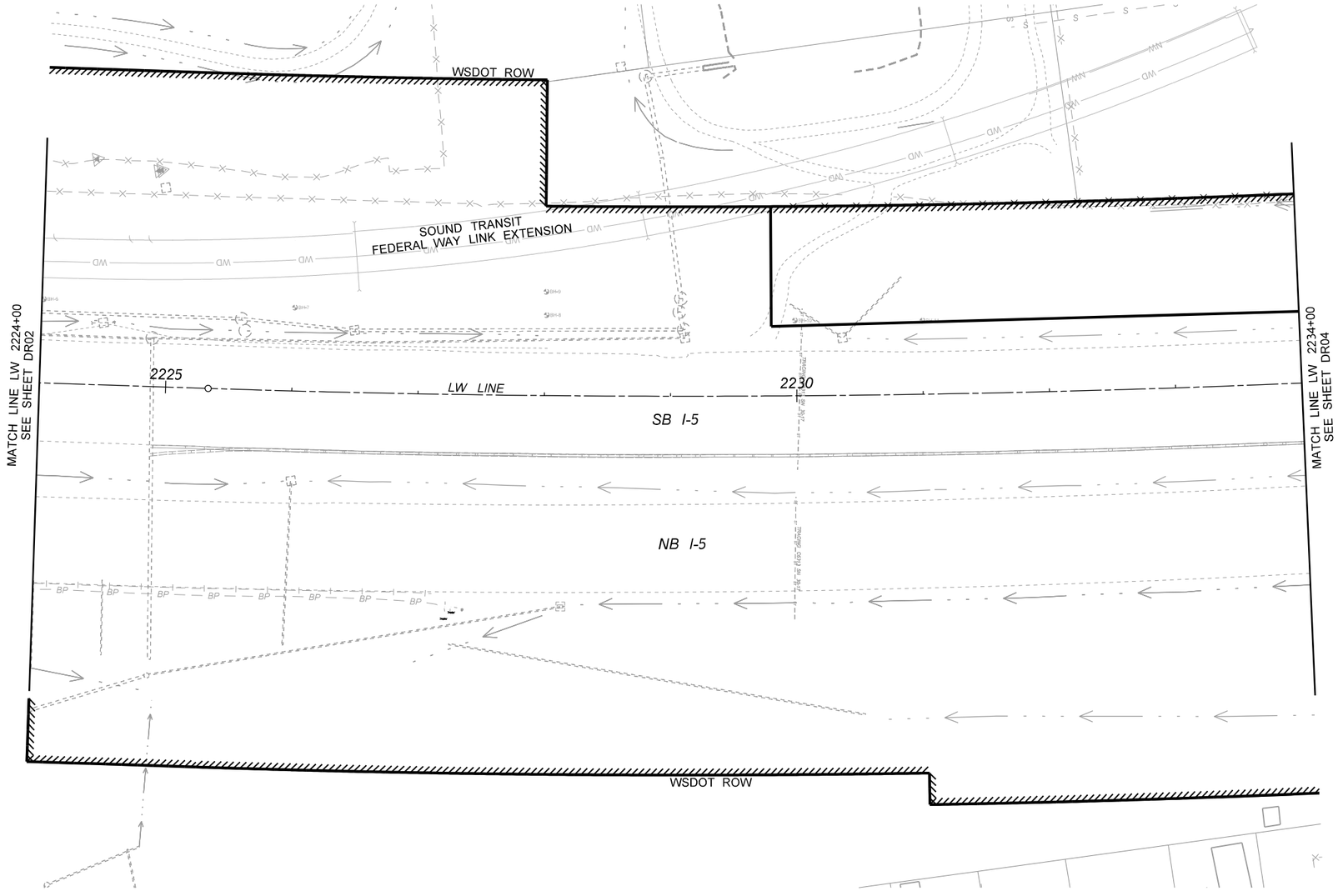
SCALE IN FEET



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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR03.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:10:43 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR03

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

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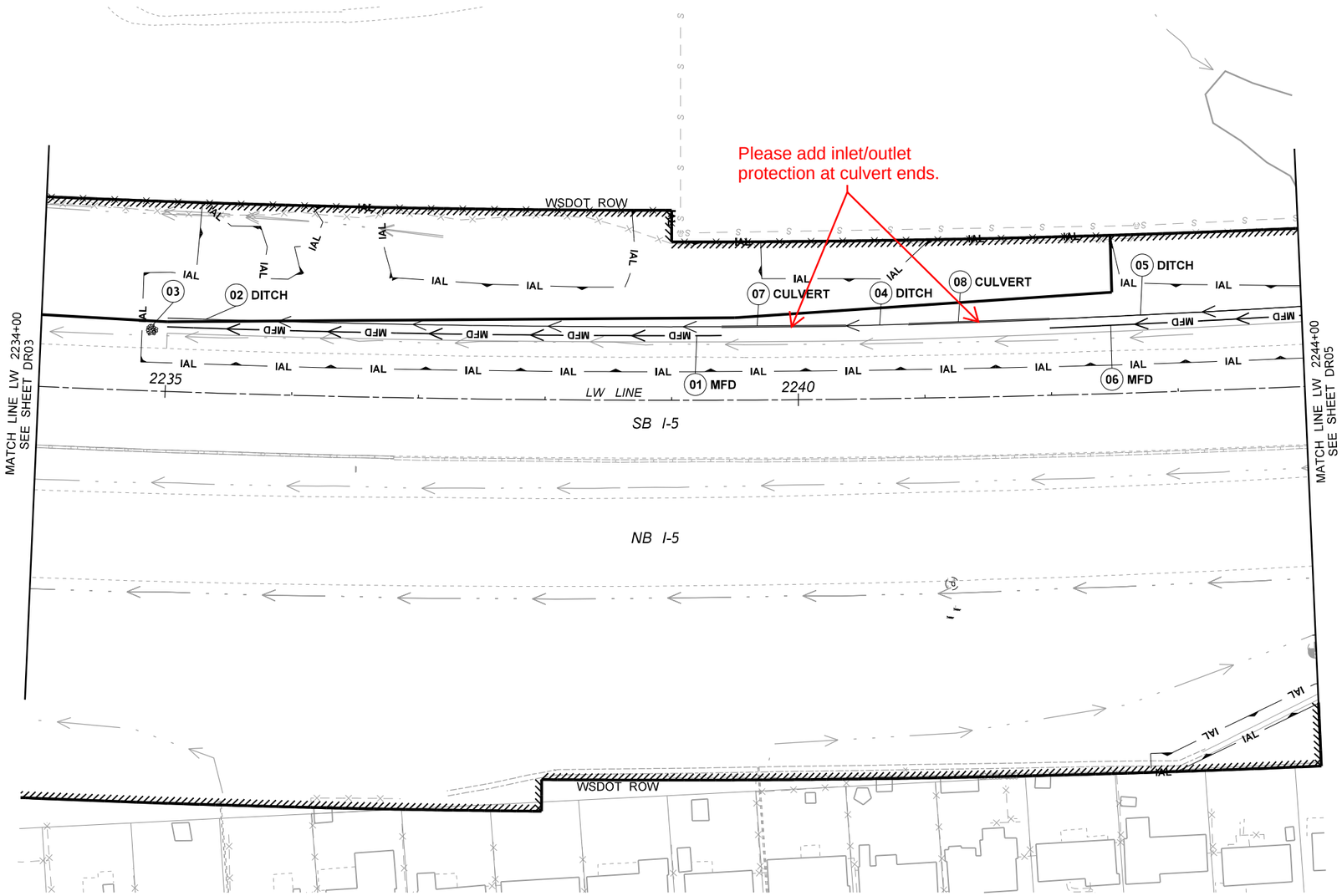
0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR04.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:11:58 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR04

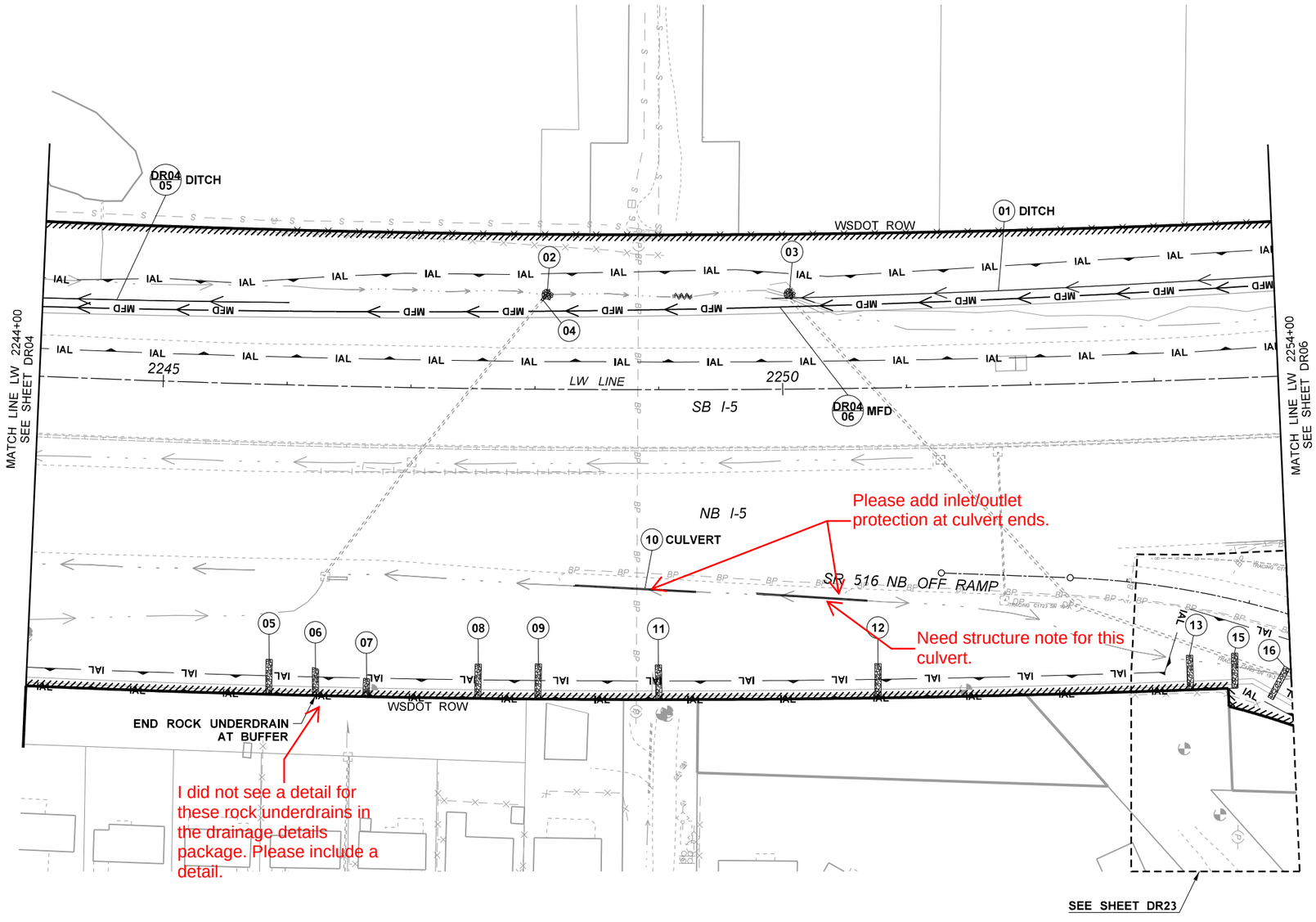
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

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- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR05.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR05

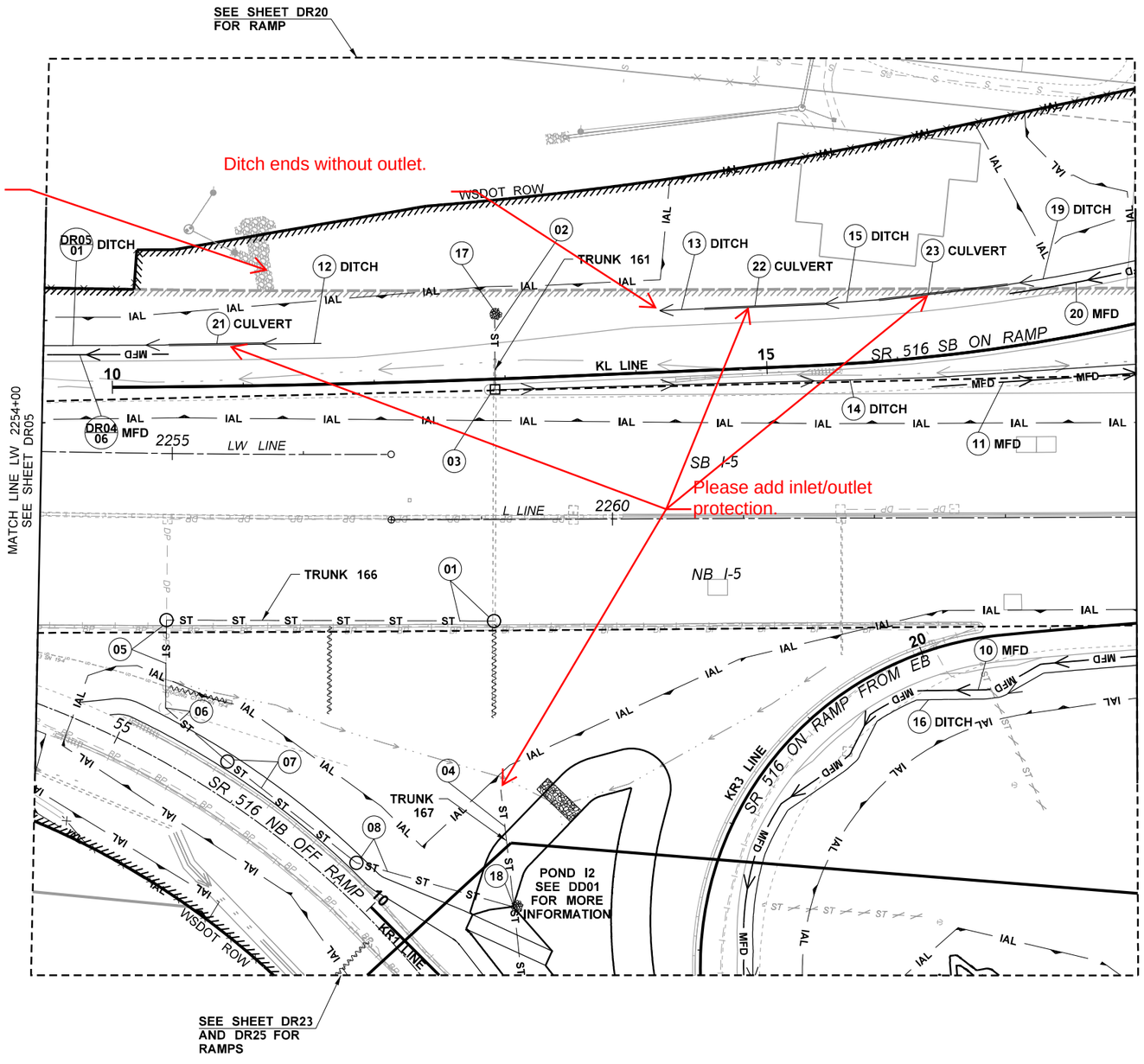
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 161	DP28
TRUNK 166	DP30
TRUNK 167	DP30

0 50 100
SCALE IN FEET



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- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
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- PROPOSED BIOFILTRATION SWALE
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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

NOTES:

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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR06.dgn			
TIME	6:14:12 PM			
DATE	12/16/2021			
PLOTTED BY	GlennR			
DESIGNED BY	T. STANLEY			
ENTERED BY	N. KLYZHKO			
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21	
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
CONTRACT NO.	LOCATION NO.
C9424	

FED.AID PROJ.NO.

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR06
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

SCALE IN FEET 0 50 100

SEE SHEET DR21, DR22, DR28, AND DR33 FOR RAMPS

DAYLIGHT SLOPE UNDERDRAIN

SLOPE UNDERDRAIN SEE DETAIL ON SHEET DD17

Need inlet protection.

Existing underdrains must empty somewhere. Presently they empty in the existing ditch.

Is DR07-19 a flow splitter? Please include a detail for it.

Please include profiles for DR07-21, DR07-22 and DR07-23.

There are two structure DR07-23.

Underdrain does not appear to connect to an outlet. Will it daylight onto slope? If so, add a note. Add outlet protection and a flow path on the downstream end.

MATCH LINE L 2264+00 SEE SHEET DR06

MATCH LINE L 2274+00 SEE SHEET DR08

SEE SHEET DR28 FOR SR 516

SEE SHEET DR29 FOR SR 516

SEE SHEET DR29 AND DR34 FOR RAMPS

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DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 11	DP07
TRUNK 12	DP08
TRUNK 17	DP10
TRUNK 18	DP11
TRUNK 21	DP06
TRUNK 21A	DP06
TRUNK 22	DP12
TRUNK 27	DP15
TRUNK 33	DP26
TRUNK 46B	DP23
TRUNK 46C	DP25
TRUNK 46D	DP25
TRUNK 48	DP24
TRUNK 48A	DP35
TRUNK 49	DP34
TRUNK 151	DP34
TRUNK 152	DP34
TRUNK 153	DP34
TRUNK 154	DP36
TRUNK 155	DP26
TRUNK 156	DP26
TRUNK 159	DP36
TRUNK 182	DP12

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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR07.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:14:57 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY				JOB NUMBER		
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

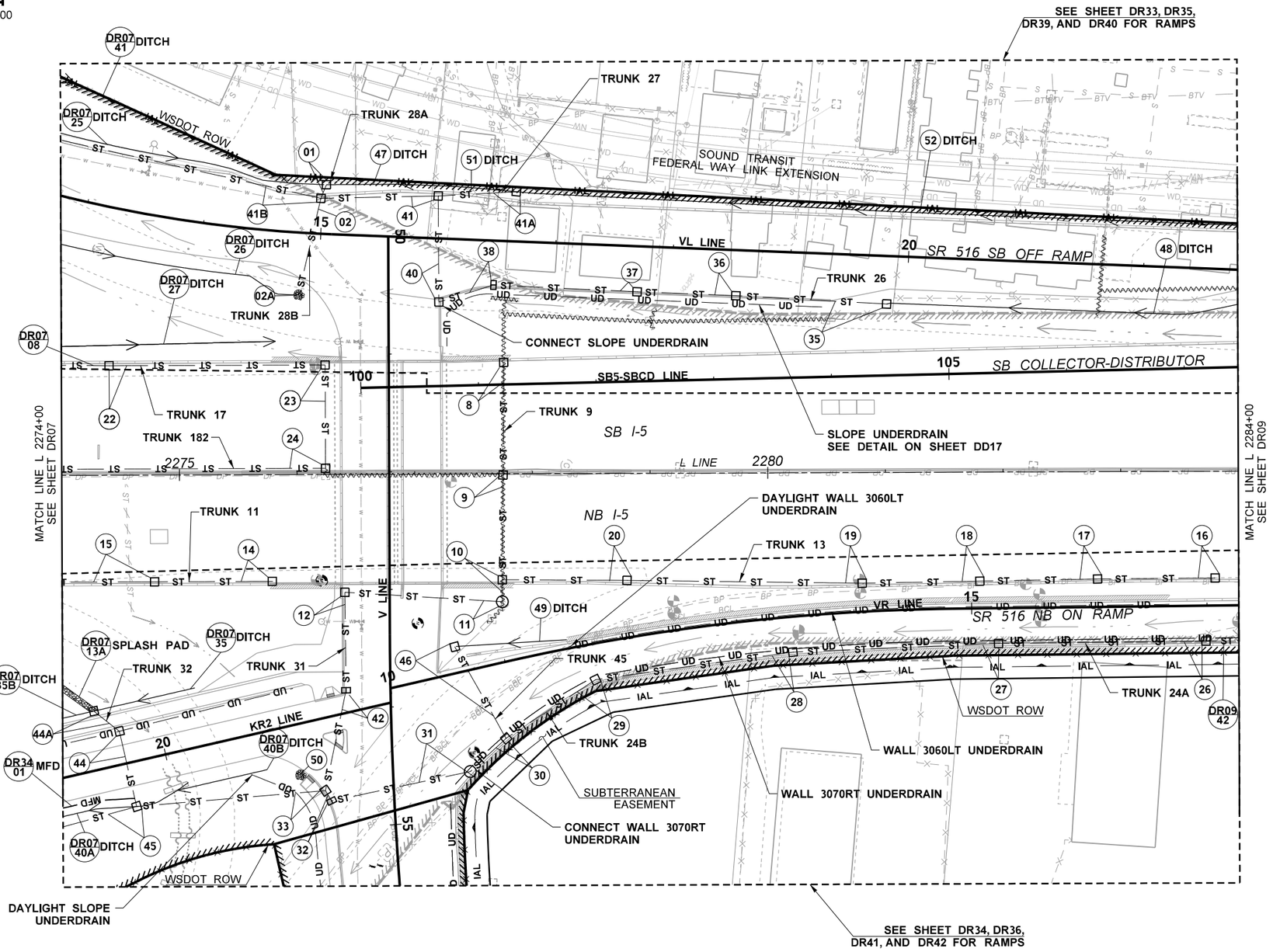
DRAINAGE PLAN

PLAN REF NO DR07

SHEET OF SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET



DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 9	DP07
TRUNK 11	DP07
TRUNK 13	DP08
TRUNK 17	DP10
TRUNK 24A	DP13
TRUNK 24B	DP14
TRUNK 26	DP15
TRUNK 28A	DP29
TRUNK 28B	DP29
TRUNK 27	DP15
TRUNK 31	DP16
TRUNK 32	DP17
TRUNK 45	DP22
TRUNK 182	DP12

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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR08.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:16:00 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		C9424		
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

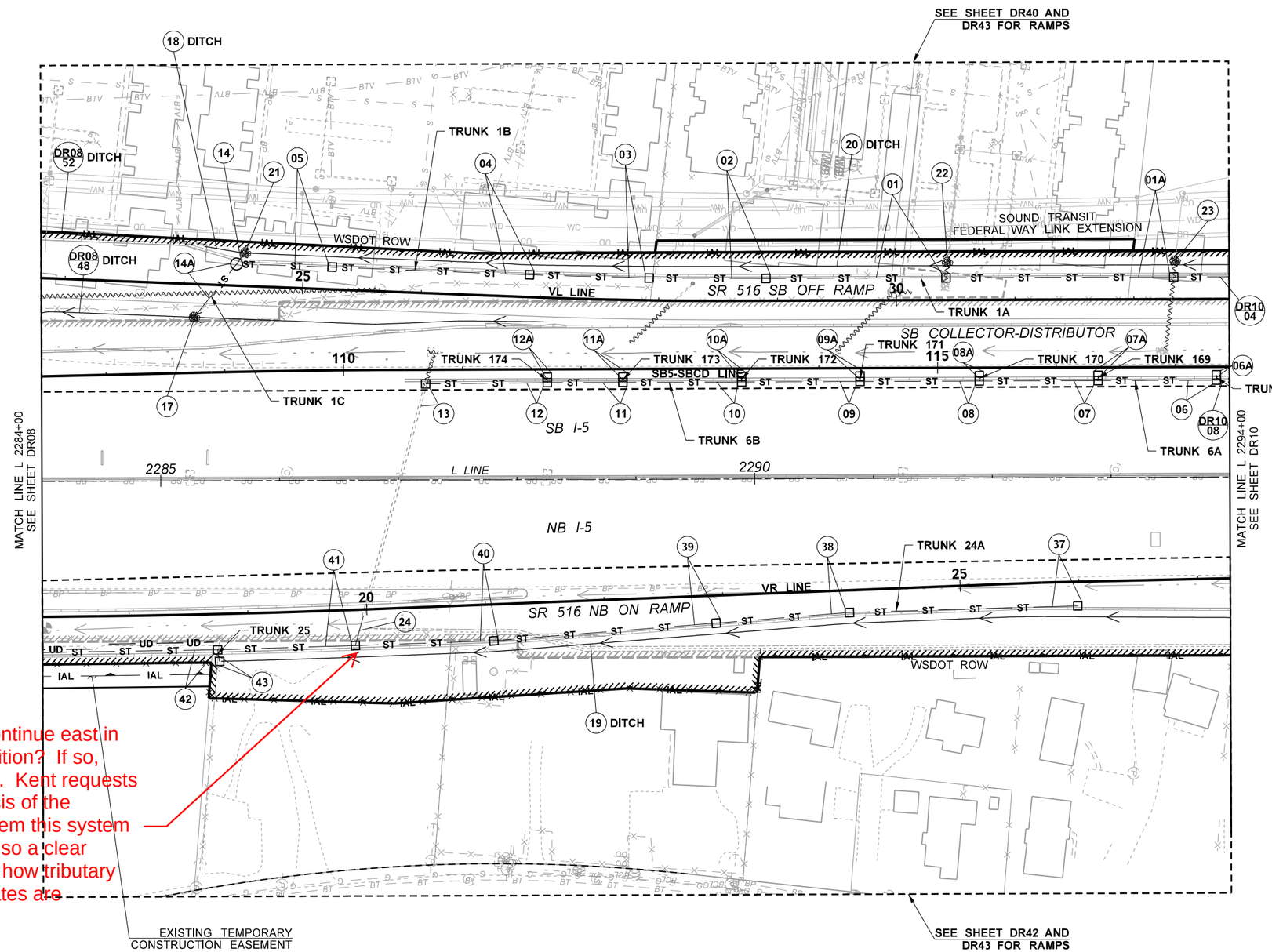
DRAINAGE PLAN

PLAN REF NO
DR08

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET



Does this pipe continue east in the existing condition? If so, show on the plan. Kent requests a capacity analysis of the downstream system this system discharges to. Also a clear understanding of how tributary areas and flow rates are changing

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 1A	DP01
TRUNK 1B	DP02
TRUNK 1C	DP07
TRUNK 6A	DP04
TRUNK 6B	DP05
TRUNK 24A	DP13
TRUNK 25	DP14
TRUNK 168	DP31
TRUNK 169	DP31
TRUNK 170	DP31
TRUNK 171	DP31
TRUNK 172	DP32
TRUNK 173	DP32
TRUNK 174	DP32

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FILE NAME	c:\pwworking\jacobs_b&\hpw-rlmandgr\d0321956\C9424_PS_DR09.dgn						
TIME	6:23:28 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR09

SHEET OF SHEETS

T.22N. R.4E. W.M.

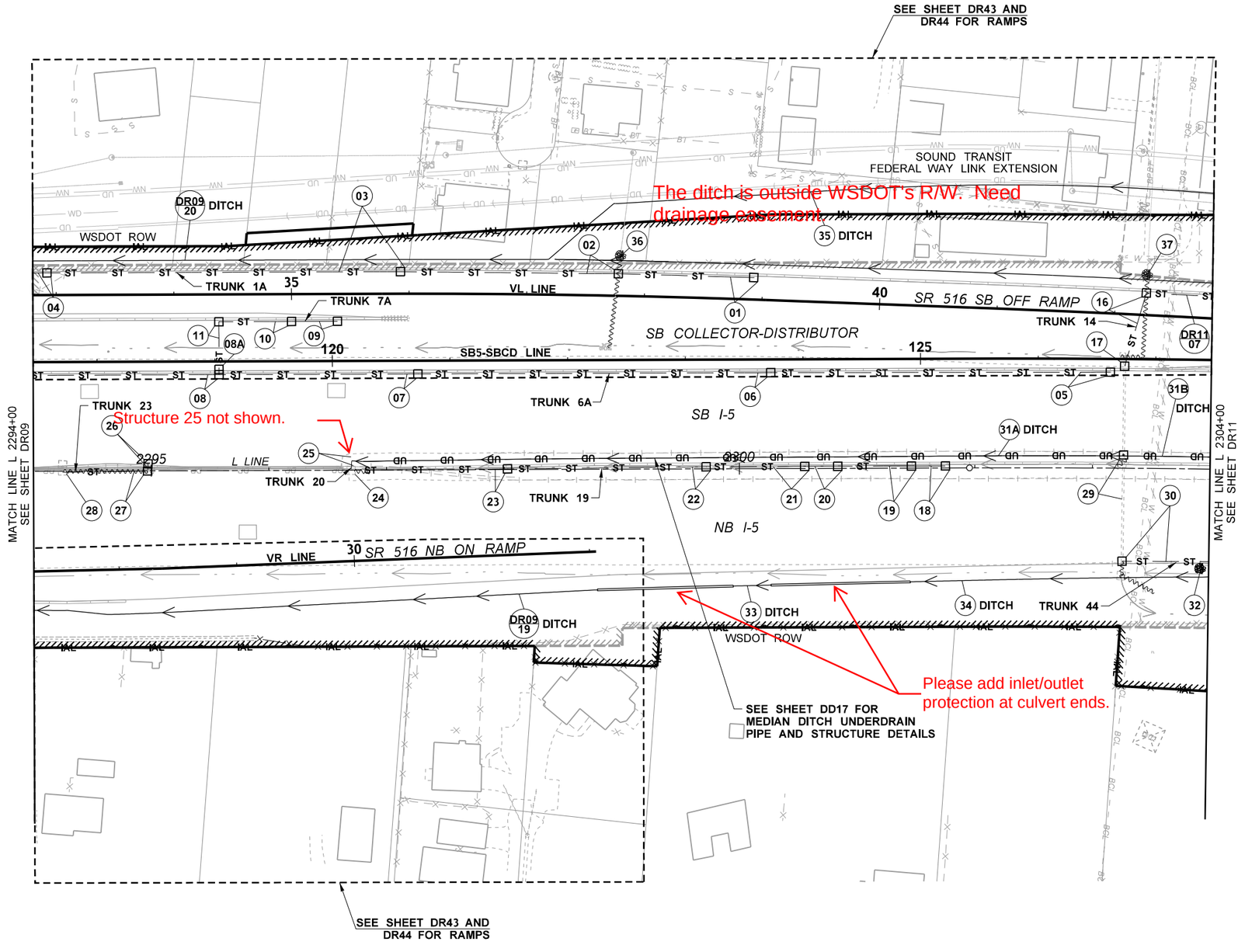
0 50 100
SCALE IN FEET

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 1A	DP01
TRUNK 1B	DP02
TRUNK 6A	DP04
TRUNK 7A	DP05
TRUNK 14	DP09
TRUNK 19	DP11
TRUNK 20	DP11
TRUNK 23	DP12
TRUNK 44	DP22



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR10.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:25:13 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR10

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

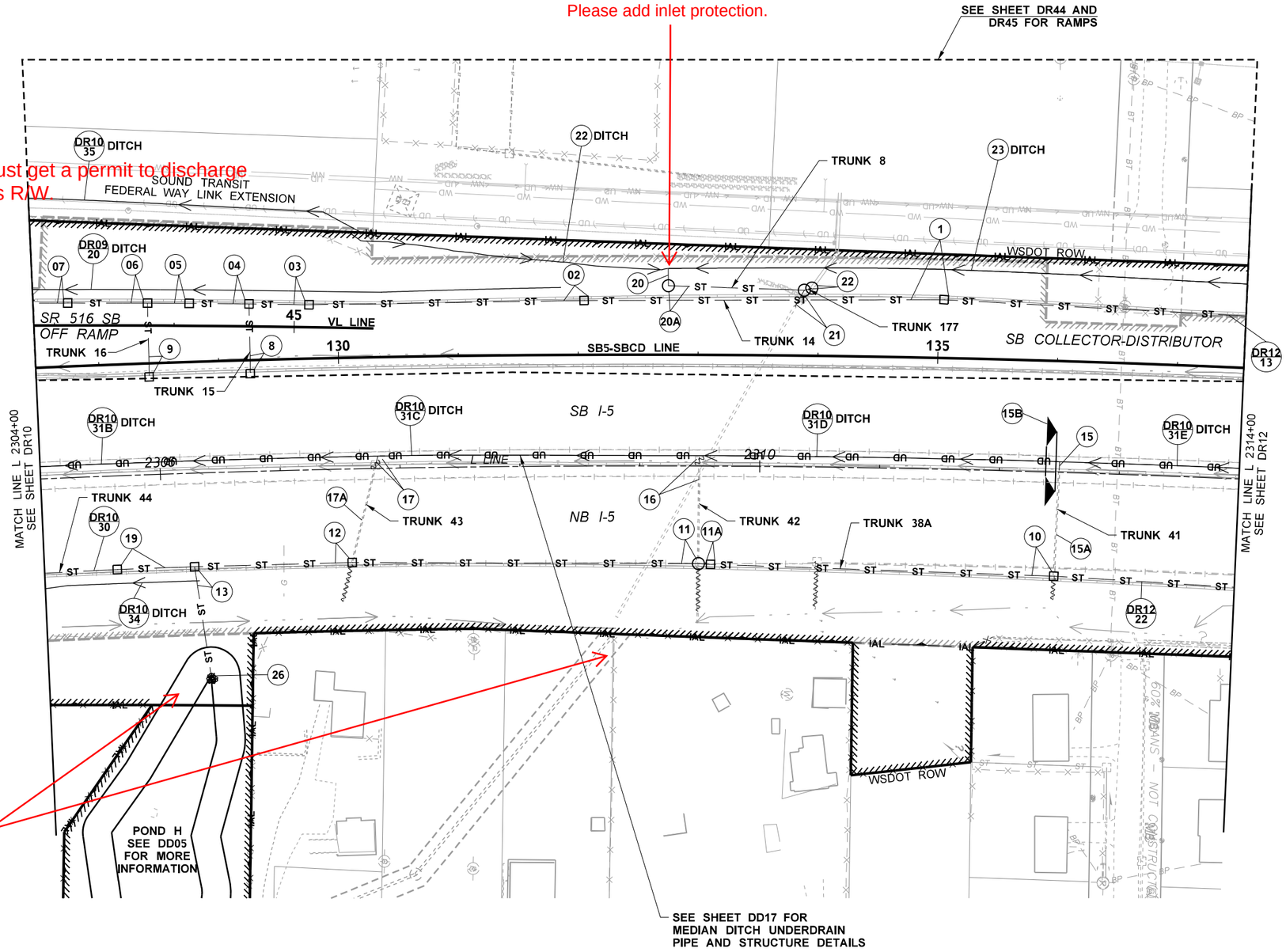
DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 8	DP06
TRUNK 14	DP09
TRUNK 15	DP10
TRUNK 16	DP10
TRUNK 38A	DP19
TRUNK 41	DP21
TRUNK 42	DP22
TRUNK 43	DP22
TRUNK 44	DP22
TRUNK 177	DP33

Please add inlet protection.

Offsite runoff must get a permit to discharge inside WSDOT's R/W.

Kent requests a capacity analysis of the downstream system this pond discharges to. Also a clear understanding of how tributary areas and flow rates are changing



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
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- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR11.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:26:39 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR11

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

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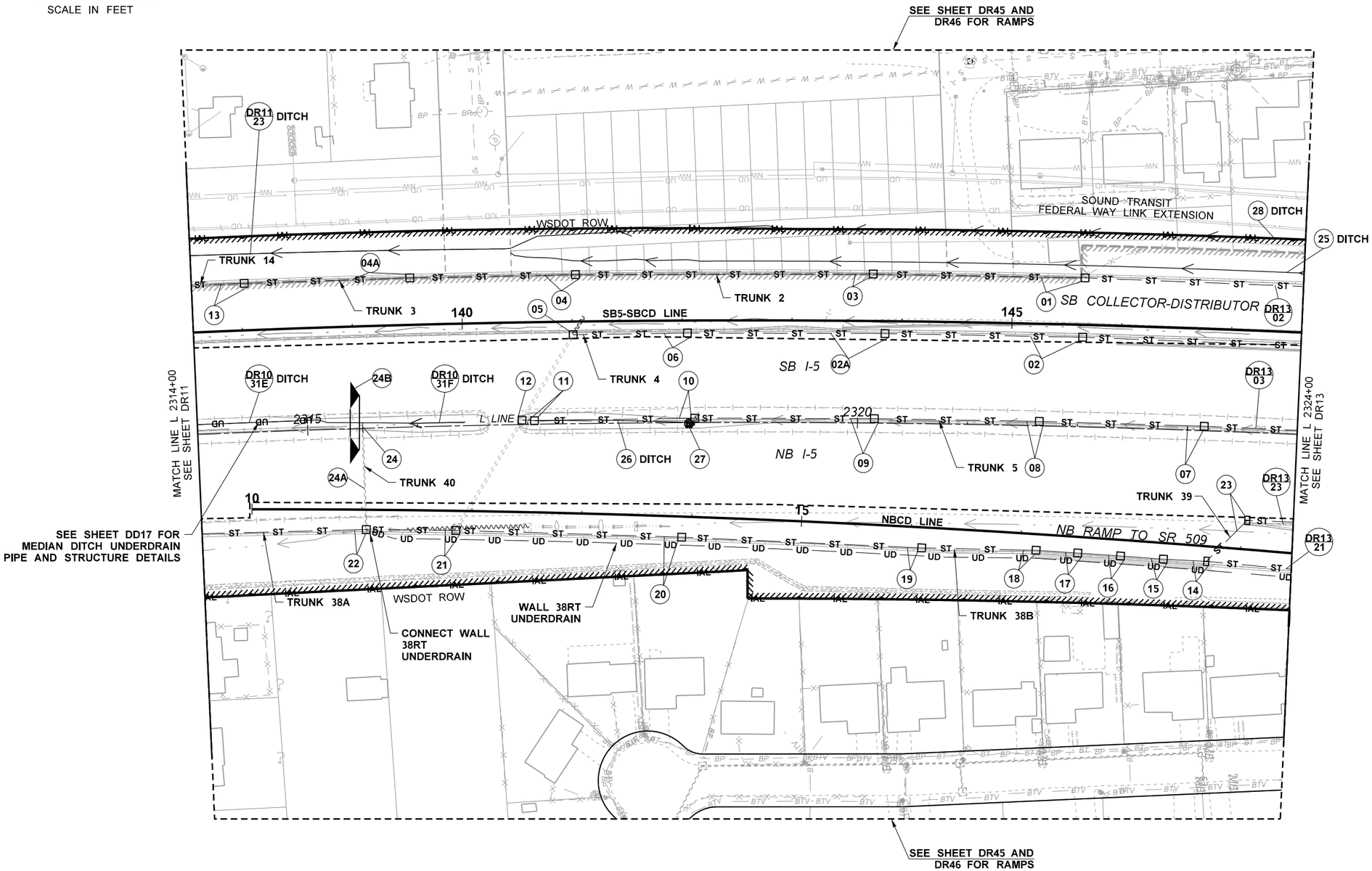
DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 2	DP02
TRUNK 3	DP03
TRUNK 4	DP35
TRUNK 5	DP03
TRUNK 14	DP09
TRUNK 38A	DP19
TRUNK 38B	DP20
TRUNK 39	DP21
TRUNK 40	DP21

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
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- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR12.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:27:56 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR12

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

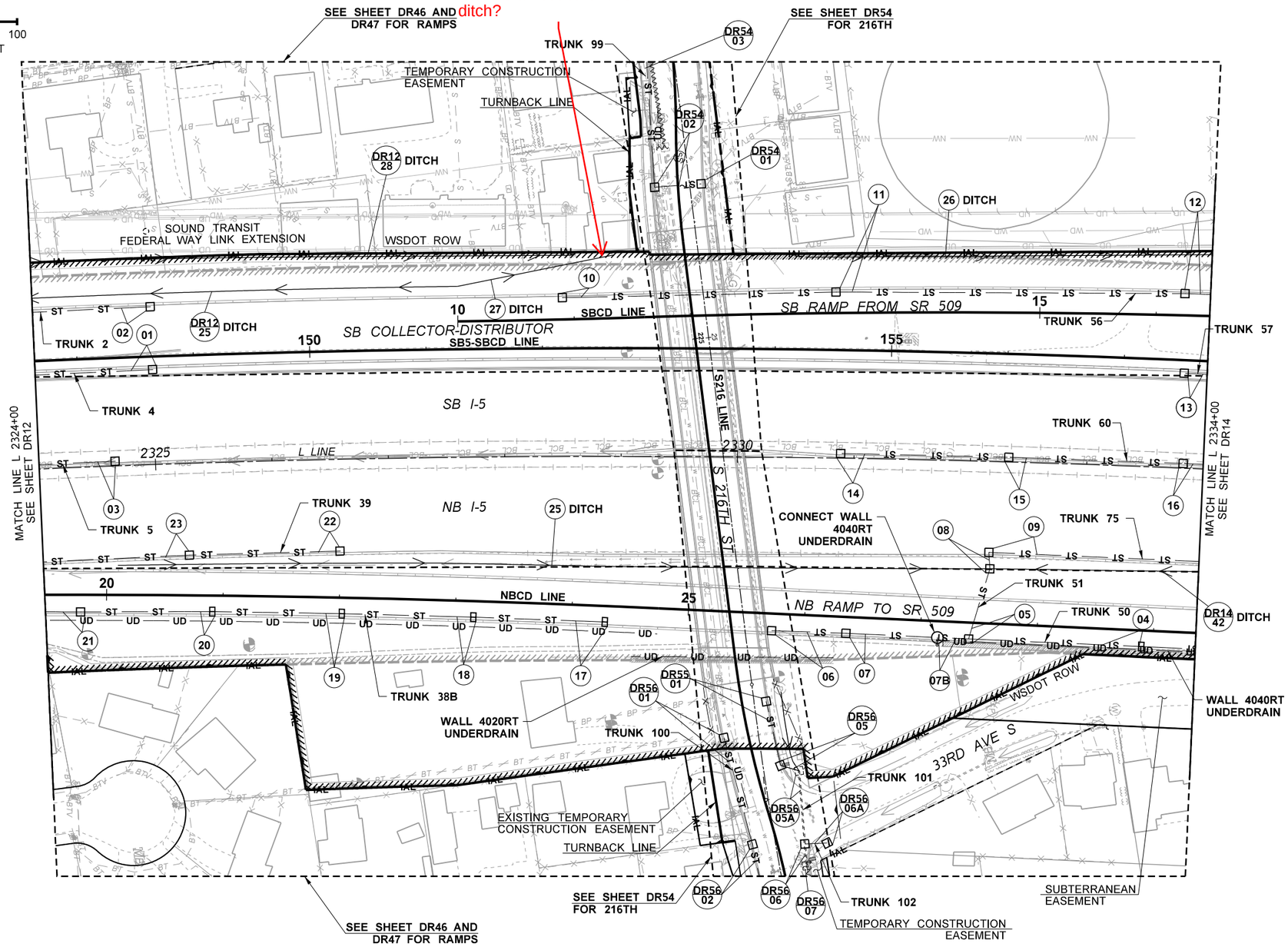
1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 2	DP02
TRUNK 4	DP35
TRUNK 5	DP03
TRUNK 38B	DP20
TRUNK 39	DP21
TRUNK 50	DP50
TRUNK 51	DP50
TRUNK 56	DP56
TRUNK 57	DP57
TRUNK 60	DP58
TRUNK 75	DP63
TRUNK 99	DP78
TRUNK 100	DP79
TRUNK 101	DP79
TRUNK 102	DP79

0 50 100
SCALE IN FEET

Is there an outlet for this ditch?



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR13.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:29:03 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR13

SHEET OF SHEETS

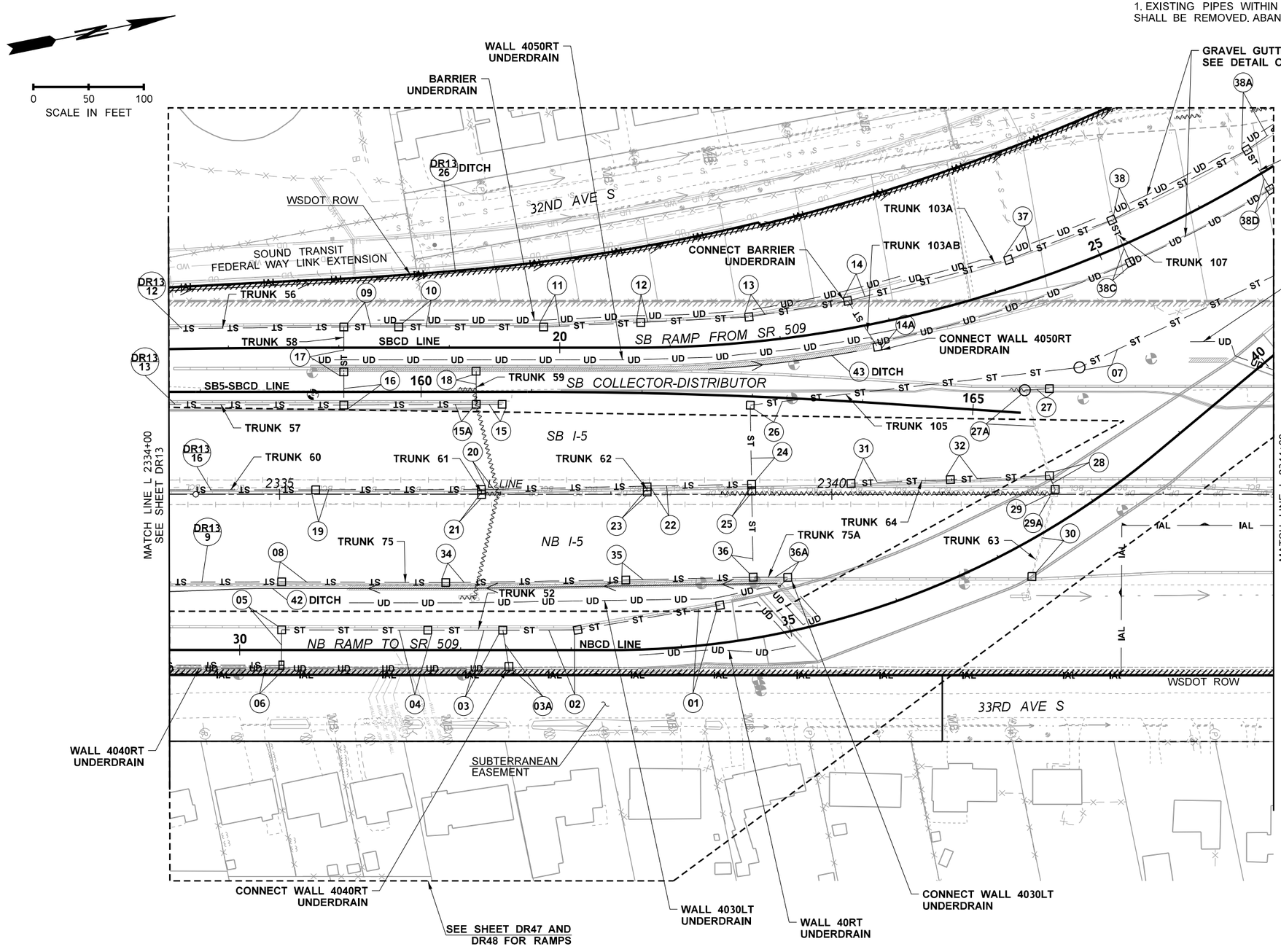
T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 52	DP51
TRUNK 56	DP56
TRUNK 57	DP57
TRUNK 58	DP57
TRUNK 59	DP57
TRUNK 60	DP58
TRUNK 61	DP58
TRUNK 62	DP59
TRUNK 63	DP59
TRUNK 64	DP59
TRUNK 75	DP63
TRUNK 75A	DP63
TRUNK 103A	DP80
TRUNK 105	DP82
TRUNK 107	DP83
TRUNK 108	DP84



DRAINAGE LEGEND:

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- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR14.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:31:05 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR14

SHEET OF SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 65	DP59
TRUNK 66	DP60
TRUNK 68	DP61
TRUNK 69	DP61
TRUNK 70	DP61
TRUNK 76A	DP64
TRUNK 76B	DP65
TRUNK 76C	DP66
TRUNK 76D	DP66

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 50 100
SCALE IN FEET

SEE SHEET DR48 FOR RAMPS

TRUNK 103A
SEE SHEET DR48 FOR STRUCTURE NUMBERS

TRUNK 105
SEE SHEET DR48 FOR STRUCTURE NUMBERS

TRUNK 54A
SEE SHEET DR48 FOR STRUCTURE NUMBERS

SB RAMP FROM SR 509

SBCD LINE

NB RAMP TO SR 509

NBCD LINE

WSDOT ROW

TRUNK 66

TRUNK 76C

SB I-5

NB I-5

TRUNK 69

TRUNK 76A

TRUNK 68

TRUNK 70

TRUNK 76D

TRUNK 65

TRUNK 76B

18A DITCH
18B DITCH
18C DITCH
18D DITCH
18E DITCH

2345

2350

N 14°27'19" E

L LINE

MATCH LINE L 2344+00
SEE SHEET DR14

MATCH LINE L 2354+00
SEE SHEET DR16

SEE SHEET DD17 FOR MEDIAN DITCH UNDERDRAIN PIPE AND STRUCTURE DETAILS

33RD AVE S

S 211TH ST

Provide detail of underdrain, bedding with fabic dimensioned, min distance to stormsewer bedding, ditch bottom, side slope, etc.

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR15.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:30:05 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

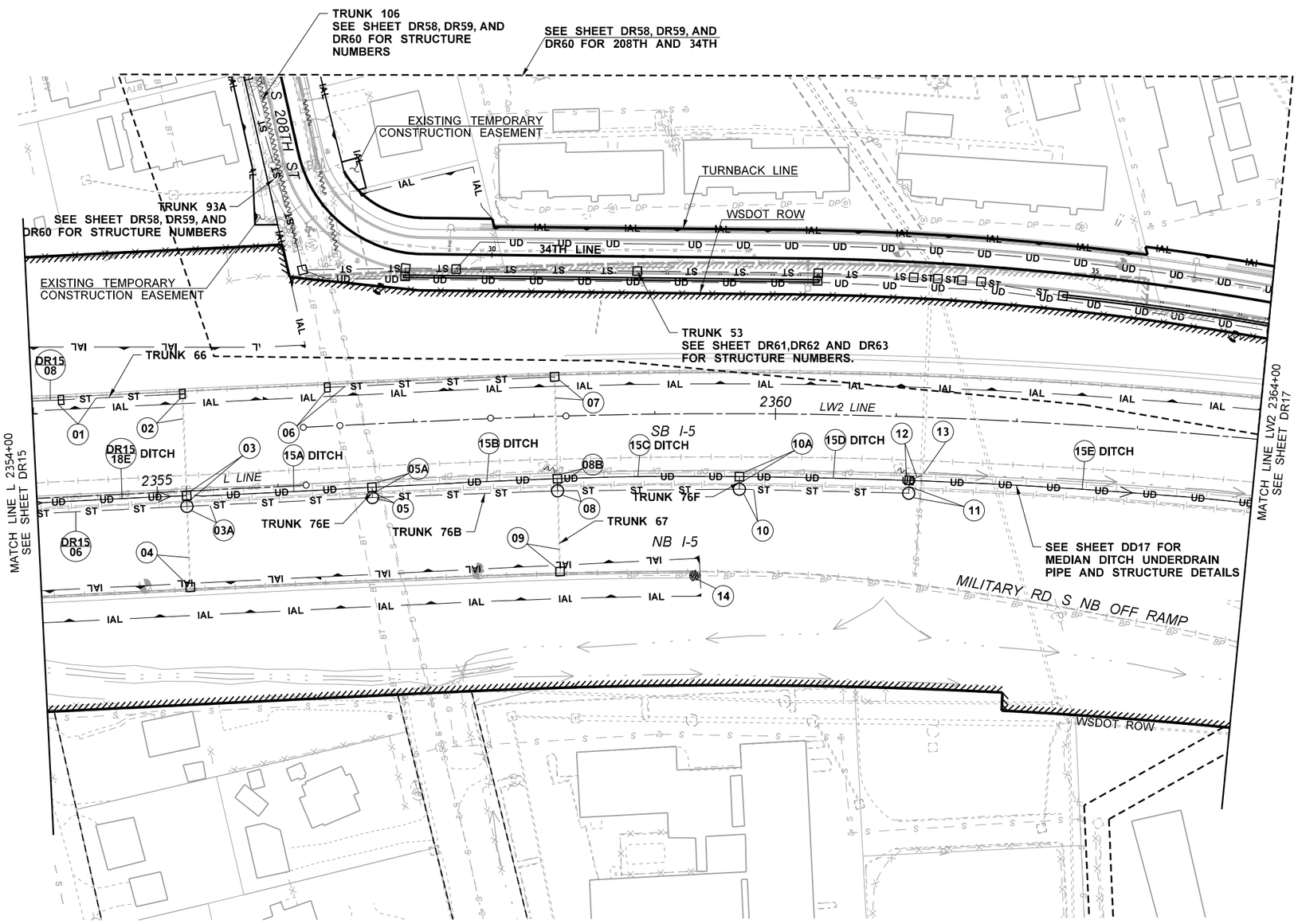
DRAINAGE PLAN

PLAN REF NO
DR15

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET



DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 53	DP51
TRUNK 66	DP60
TRUNK 67	DP60
TRUNK 76B	DP65
TRUNK 76E	DP66
TRUNK 76F	DP66
TRUNK 93A	DP76
TRUNK 94	DP77
TRUNK 106	DP83

NOTES:

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DRAINAGE LEGEND:

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- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR16.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:30:15 PM						
DATE	12/16/2021						
PLOTTED BY	glennr				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR16

SHEET OF SHEETS

T.22N. R.4E. W.M.

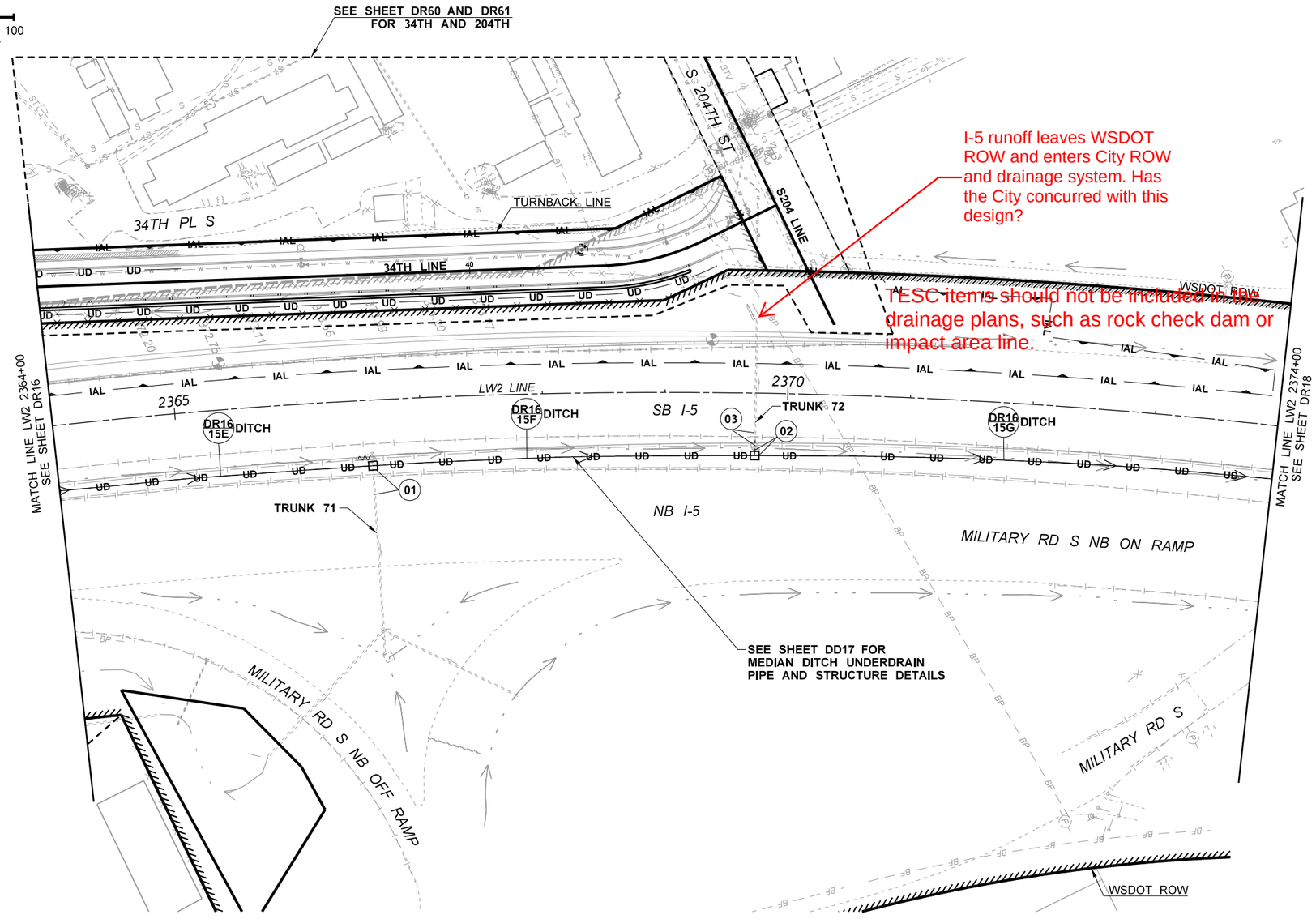
DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 71	DP61
TRUNK 72	DP62

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
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- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- SPLASH PAD — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR17.dgn						
TIME	6:30:23 PM						
DATE	12/16/2021						
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO. C9424

FED.AID PROJ.NO.

LOCATION NO.

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR17

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

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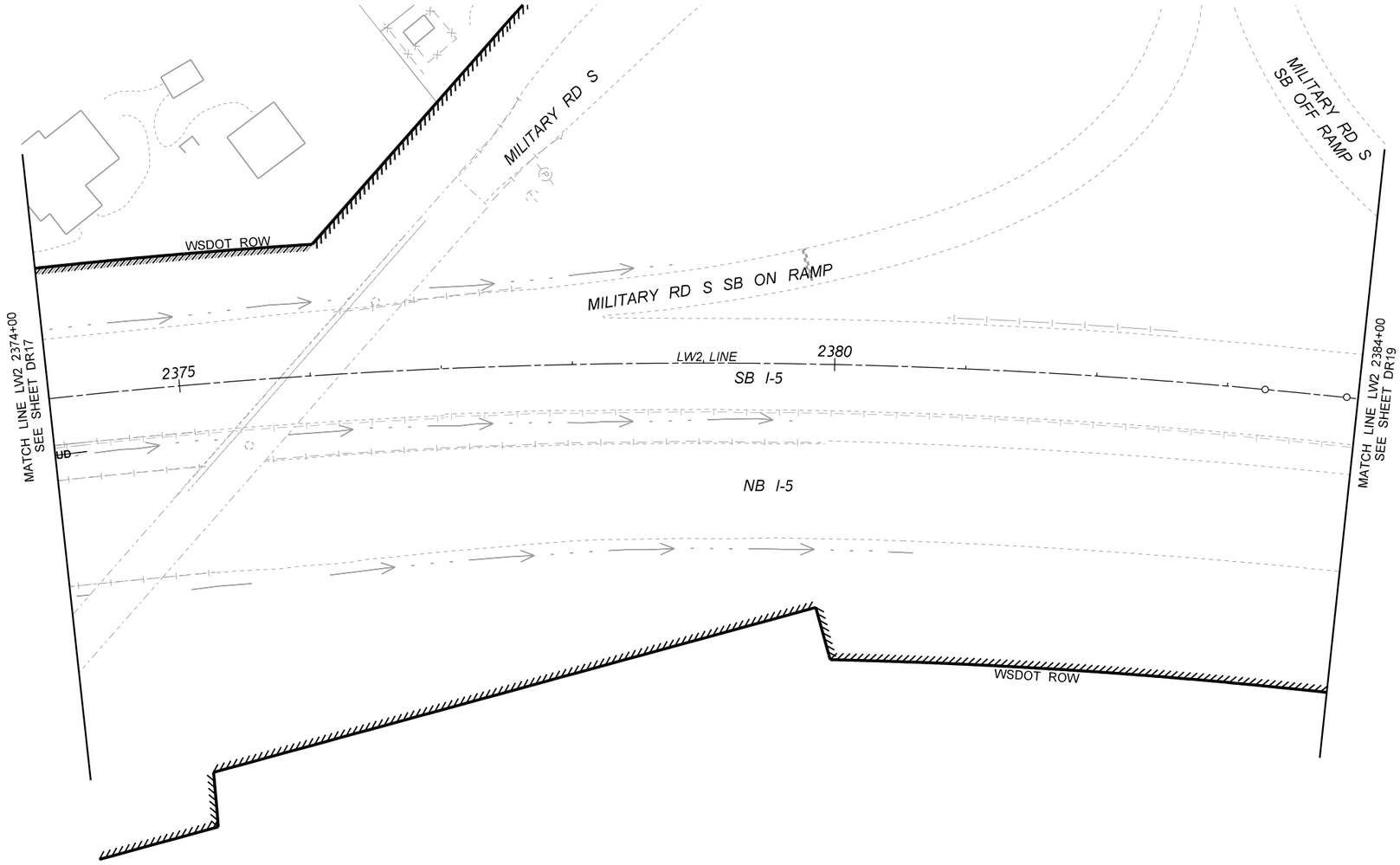
0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR18.dgn						
TIME	6:30:32 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	glennr				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR18

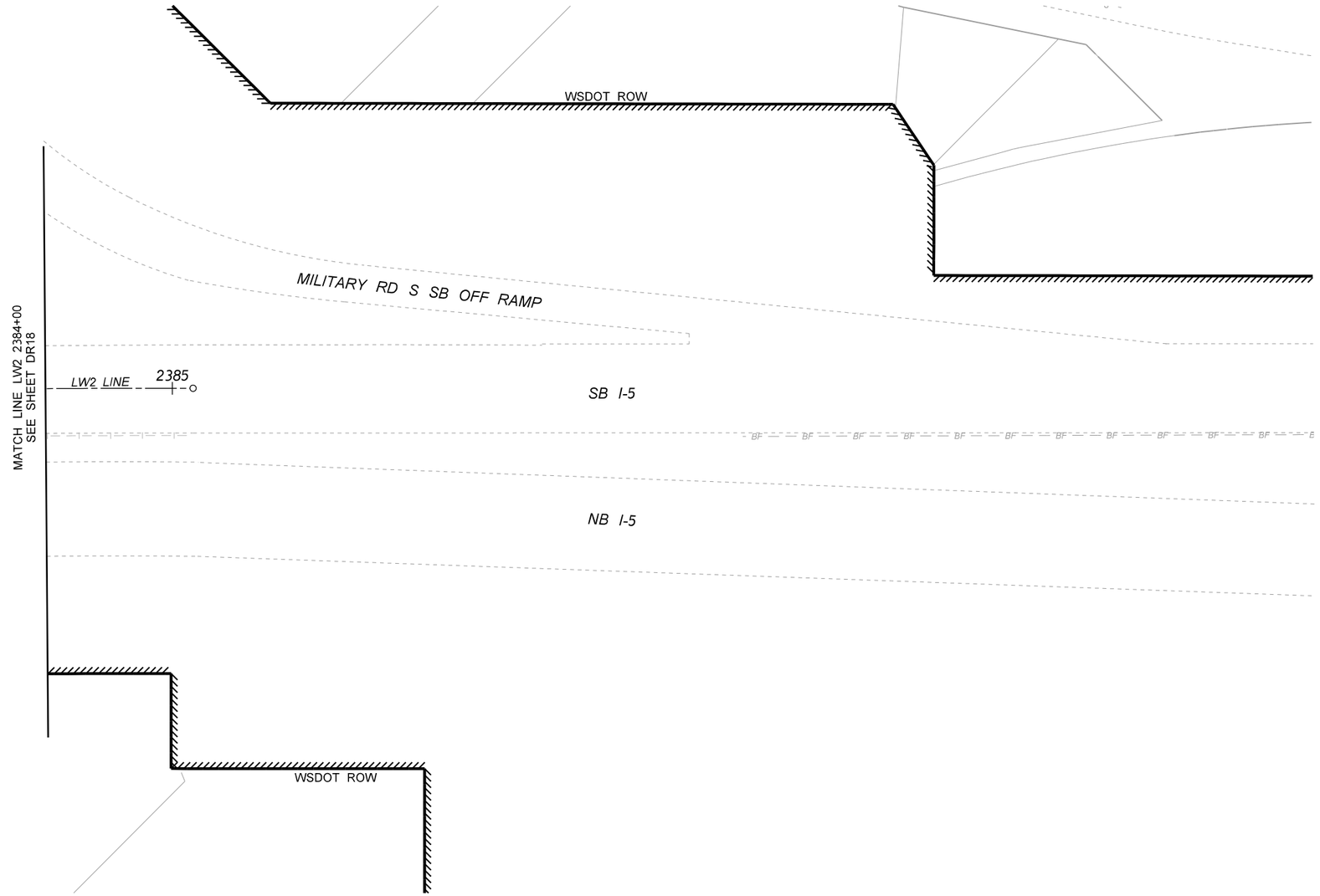
SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR19.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:30:40 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

SCOTT A. MESIC — STATE OF WASHINGTON — 35377 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY
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Washington State Department of Transportation

ATKINSON CONSTRUCTION / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR19

SHEET
OF
SHEETS

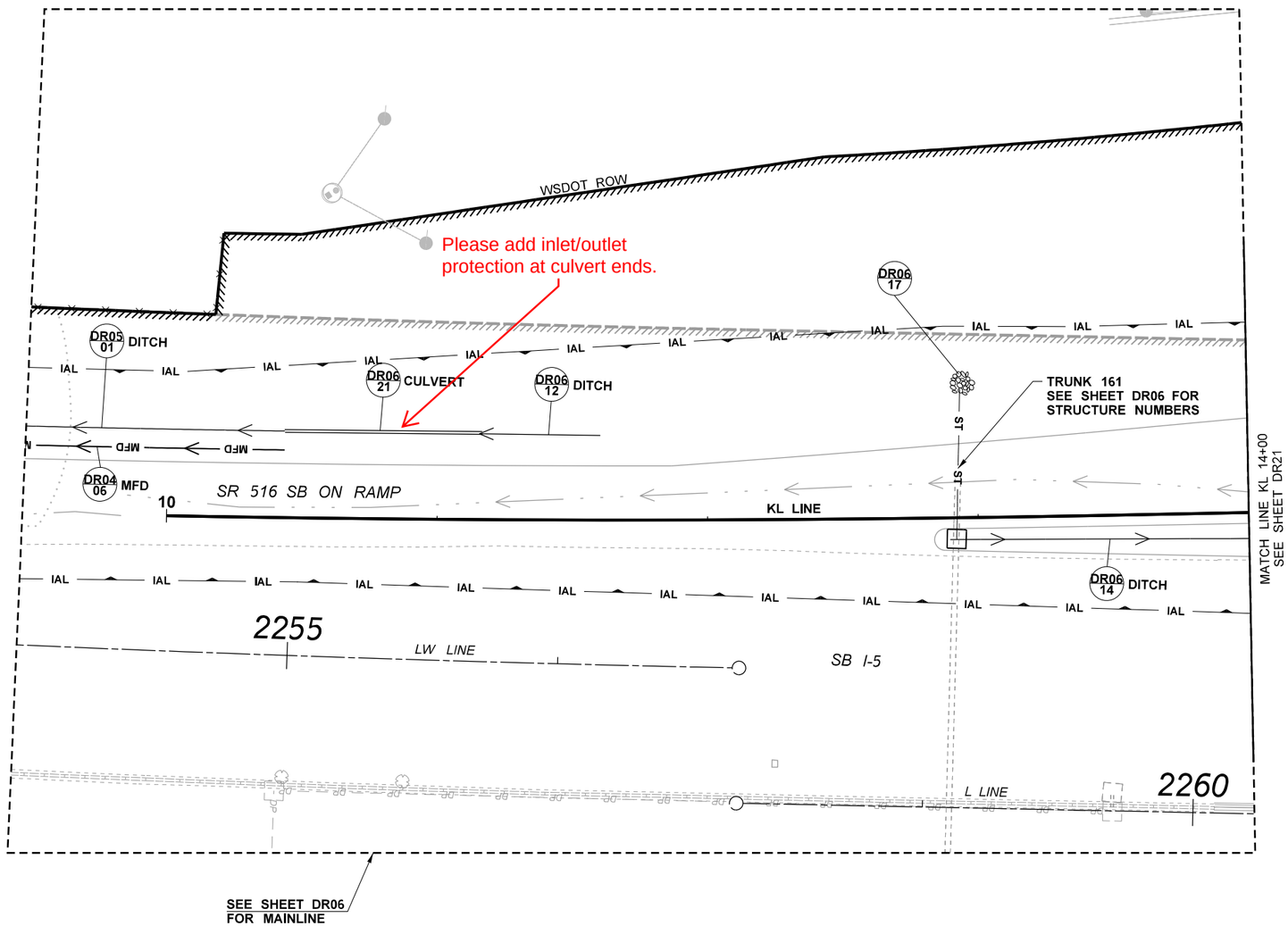
T.22N. R.4E. W.M.

0 25 50
SCALE IN FEET

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 161	DP28

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR20.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:11:50 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

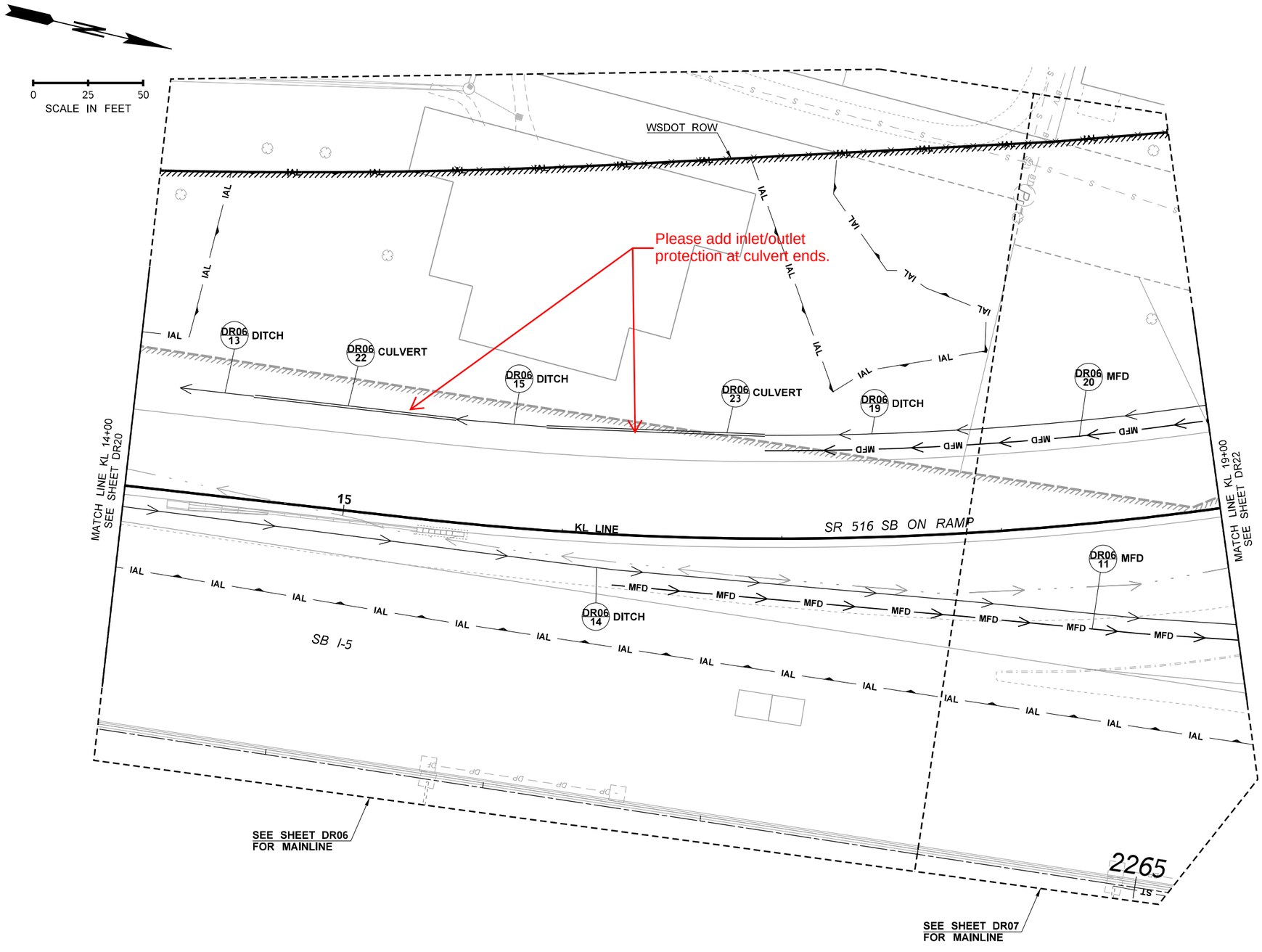
PLAN REF NO
DR20

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



DRAINAGE LEGEND:

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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR21.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	7:14:04 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY NOT FOR CONSTRUCTION

SCOTT A. MESIC — STATE OF WASHINGTON — 39577 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON CONSTRUCTION / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

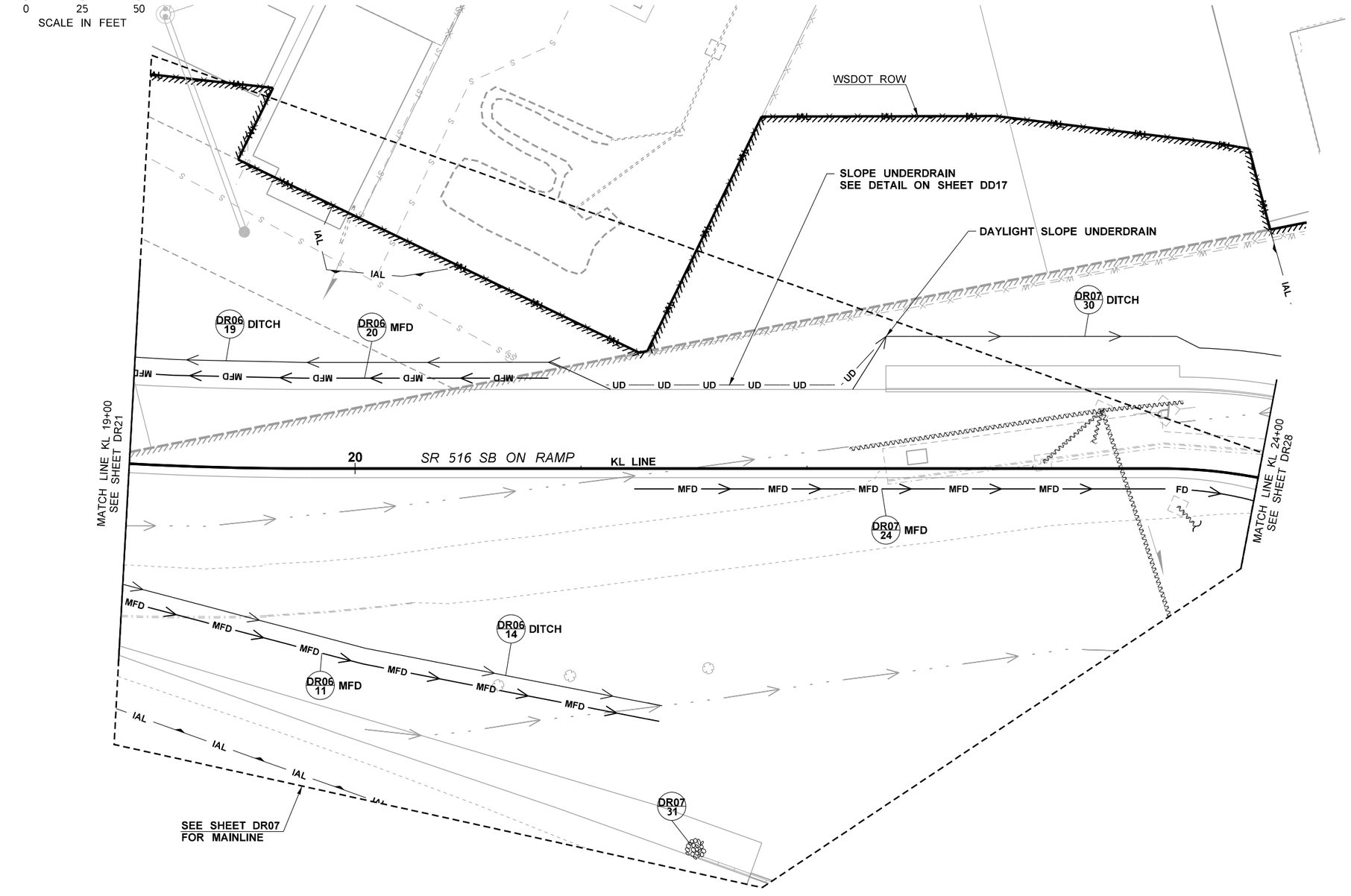
PLAN REF NO DR21

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



DRAINAGE LEGEND:

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- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR22.dgn						
TIME	7:15:12 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR22

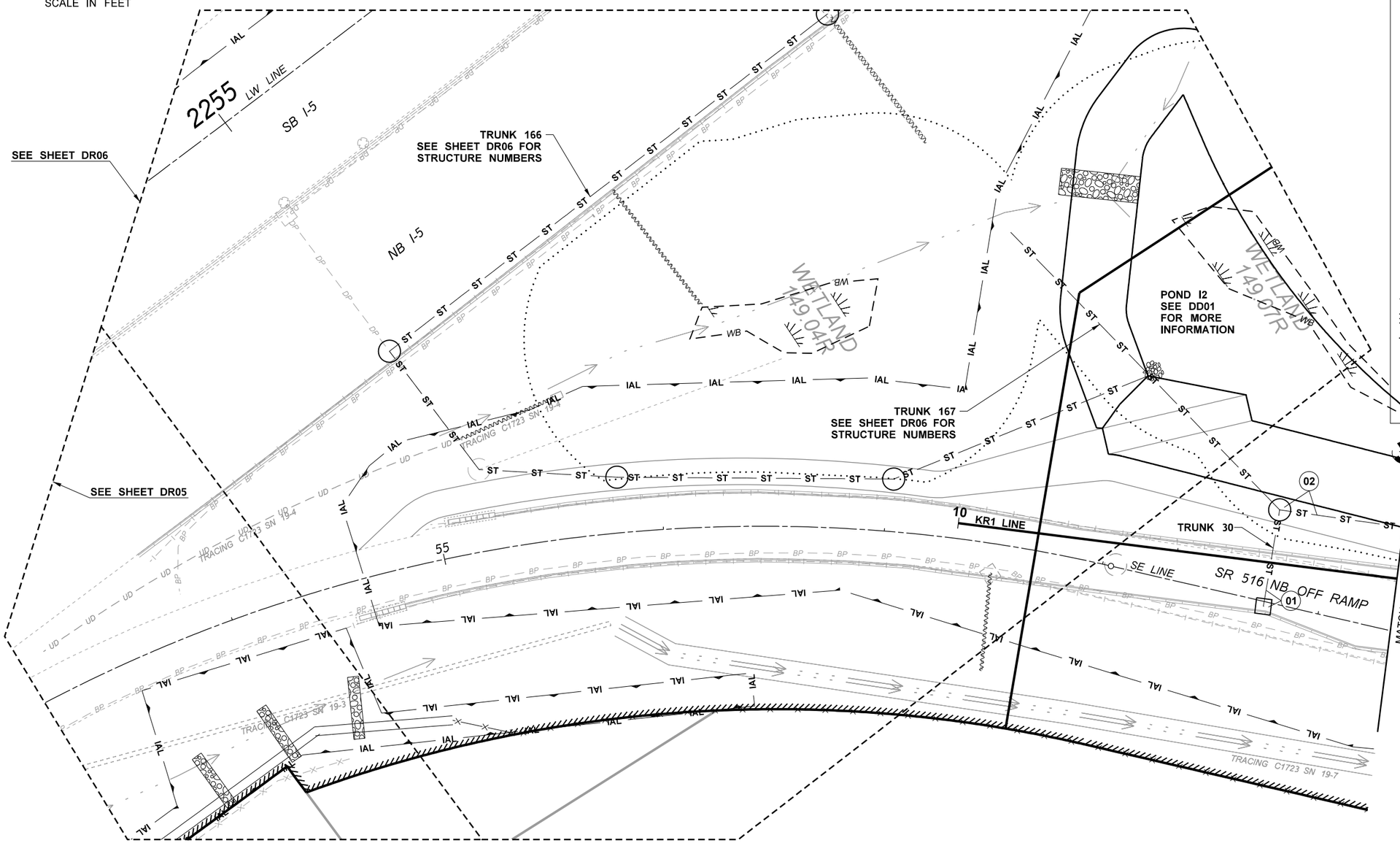
SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

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- ST — ST — PROPOSED STORM DRAIN
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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 30	DP16
TRUNK 166	DP30
TRUNK 167	DP30

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR23.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	4:52:46 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR23

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 25 50
SCALE IN FEET

MATCH LINE KR3 17+50
SEE SHEET DR25

EXISTING POND I
SEE DD02 FOR
MORE INFORMATION

Please label culvert and add inlet/outlet protection.

POND I2
SEE DD01
FOR MORE
INFORMATION

DR06 16 DITCH

DR06 10 MFD

DD02 03

MATCH LINE KR3 12+50
SEE SHEET DR30

MATCH LINE KR1 16+60
SEE SHEET DR30

KR3 LINE

SR 516 NB ON RAMP FROM EB

SR 516 NB OFF RAMP

DR23 02

MATCH LINE KR1 12+00
SEE SHEET DR23

TRUNK 167

KR1 LINE

SE LINE

TRUNK 34

SE2 LINE

CABS I2
SEE DD03
FOR MORE
INFORMATION

TRUNK 163

Need inlet protection.

DRAINAGE LEGEND:

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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 34	DP17
TRUNK 163	DP29
TRUNK 167	DP30

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR24.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:44:58 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

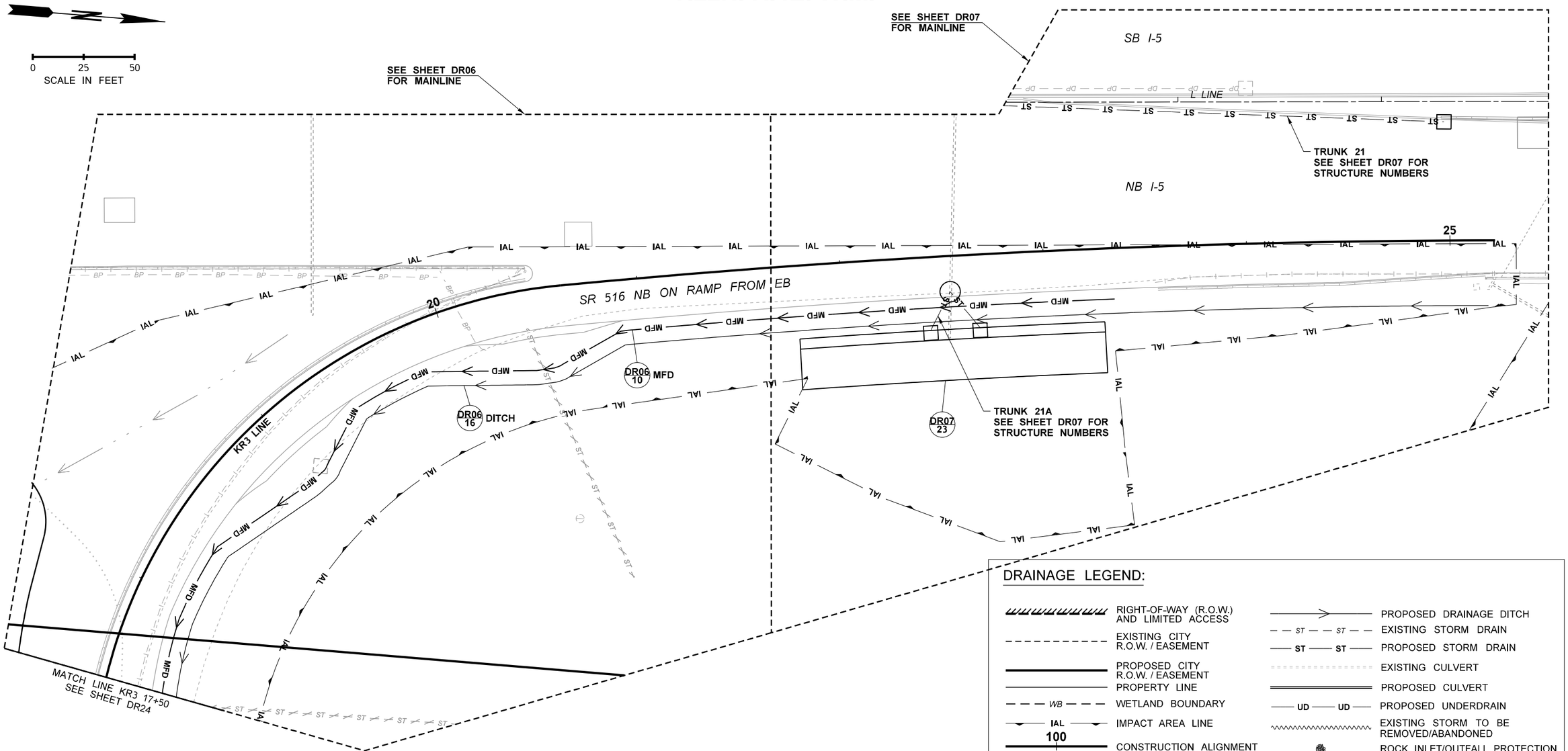
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR24

SHEET
OF
SHEETS

T.22N. R.4E. W.M.



DRAINAGE LEGEND:

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- EXISTING DITCH
- ROCK CHECK DAM

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 21	DP06
TRUNK 21A	DP06

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR25.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:34:44 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR25

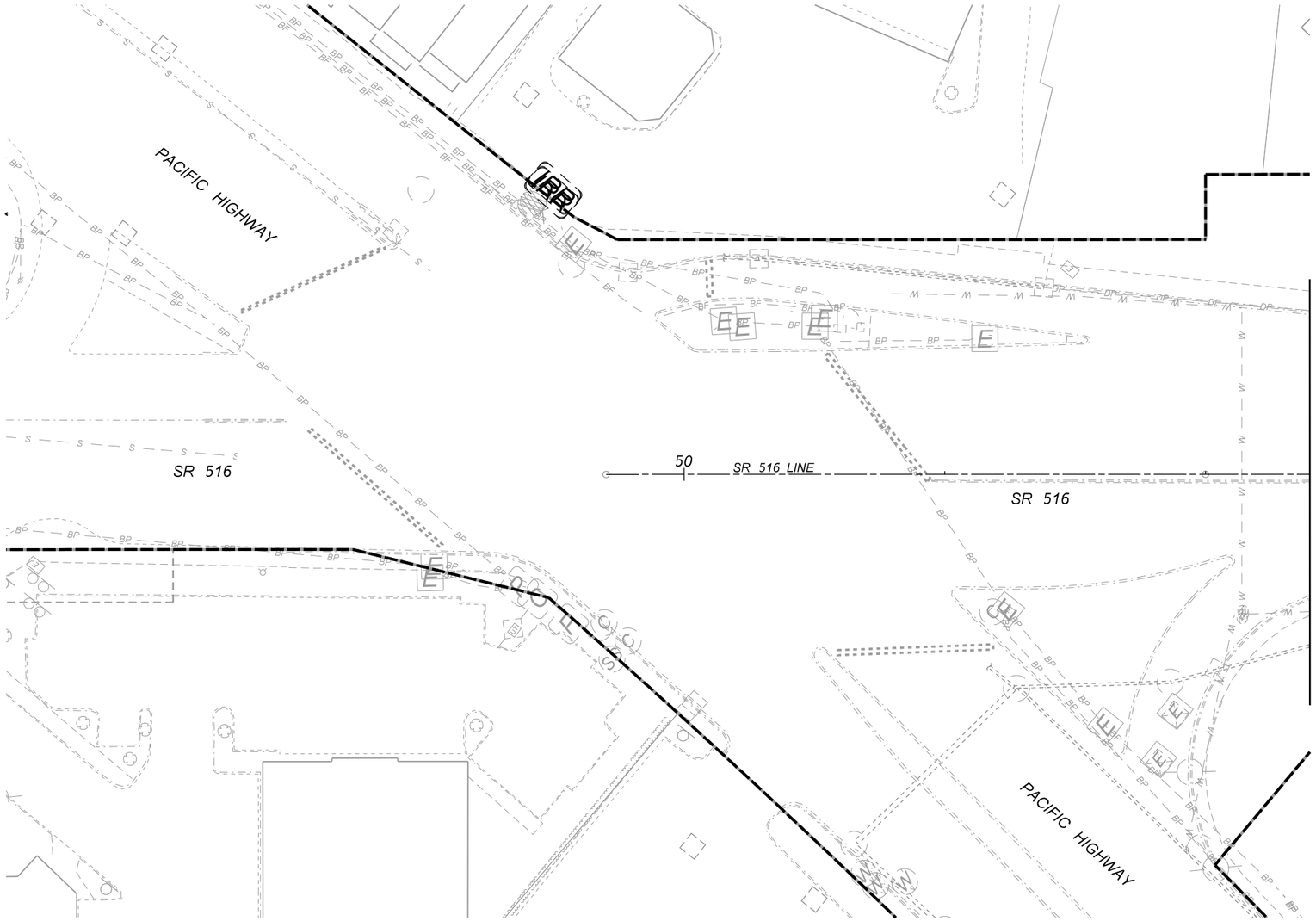
SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&\lpw-rlmandgr\d0321956\C9424_PS_DR26.dgn
TIME	5:34:53 PM
DATE	12/16/2021
PLOTTED BY	GlennR
DESIGNED BY	T. STANLEY
ENTERED BY	N. KLYZHKO
CHECKED BY	S. MESIC
PROJ. ENGR.	A. CHEPEL
REGIONAL ADM.	J. WHITE

REVISION	DATE	BY
REV B - FINAL REVIEW	12/03/21	
REV A - PRELIMINARY REVIEW	7/23/21	

REGION NO. 10 | STATE WASH | JOB NUMBER | CONTRACT NO. C9424 | FED.AID PROJ.NO. | LOCATION NO.

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR26

SHEET OF SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 46A	DP23
TRUNK 164	DP29
TRUNK 183	DP36
TRUNK 47	DP25

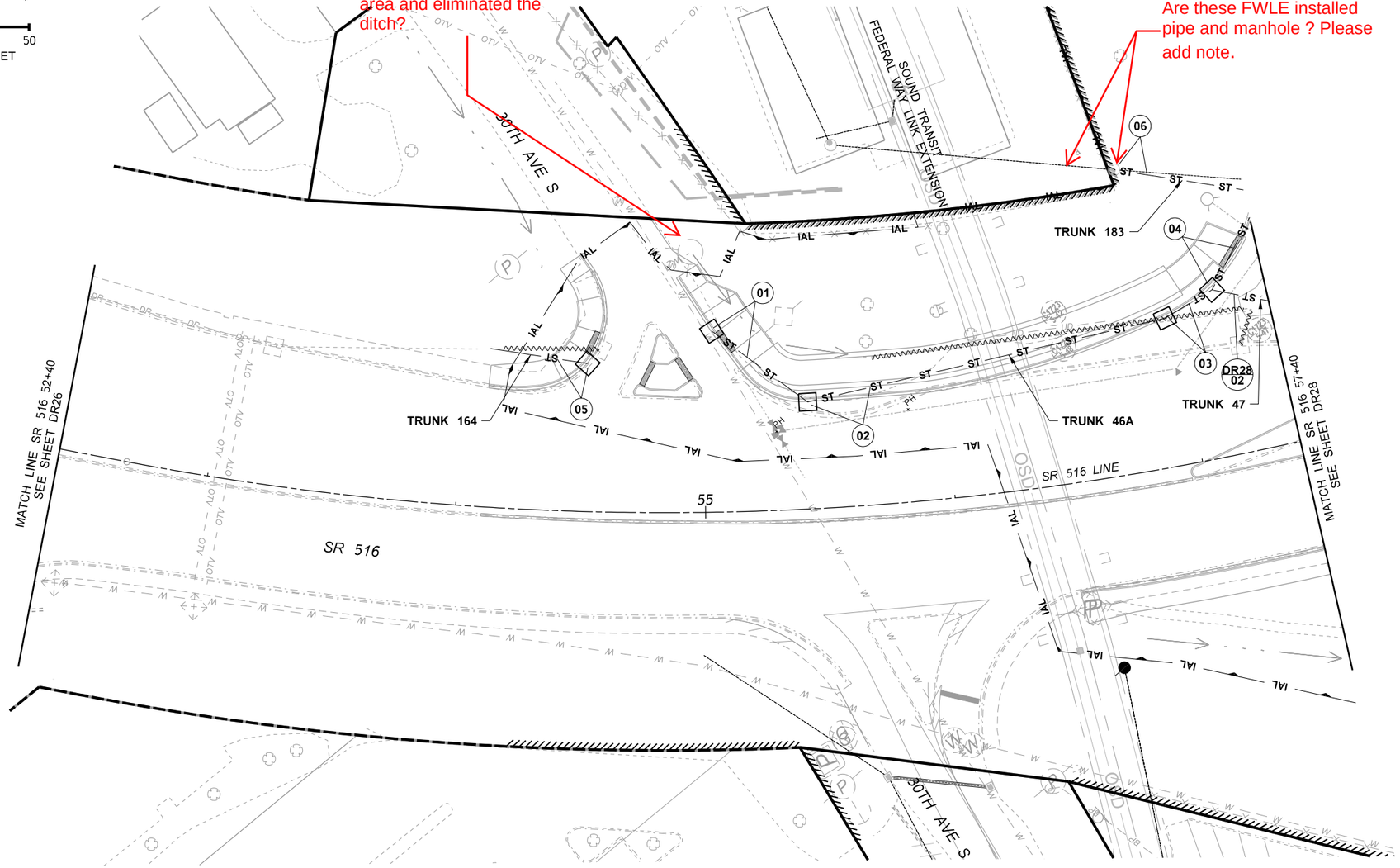
NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 25 50
SCALE IN FEET

There is an existing ditch but no downstream path for the flow. Has FWLE project revised drainage in this area and eliminated the ditch?

Are these FWLE installed pipe and manhole ? Please add note.



DRAINAGE LEGEND:

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- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR27.dgn						
TIME	5:35:03 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.
C9424		

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

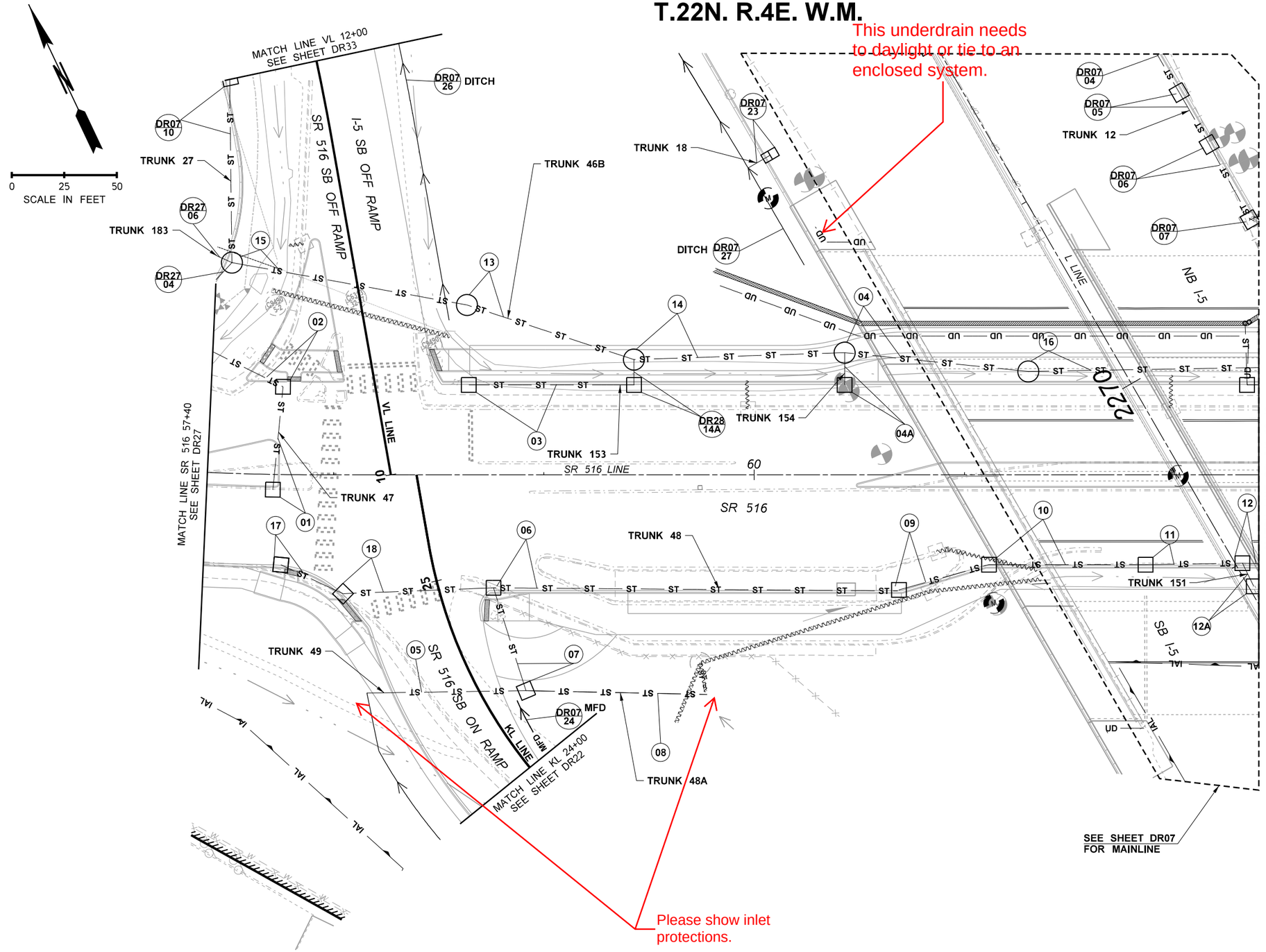
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR27

SHEET
OF
SHEETS

T.22N. R.4E. W.M.



0 25 50
SCALE IN FEET

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 12	DP08
TRUNK 18	DP11
TRUNK 27	DP15
TRUNK 46B	DP23
TRUNK 47	DP25
TRUNK 48A	DP35
TRUNK 49	DP34
TRUNK 151	DP34
TRUNK 153	DP34
TRUNK 154	DP36
TRUNK 183	DP36

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- DR27 SC — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR28.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:35:13 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR28

SHEET OF SHEETS

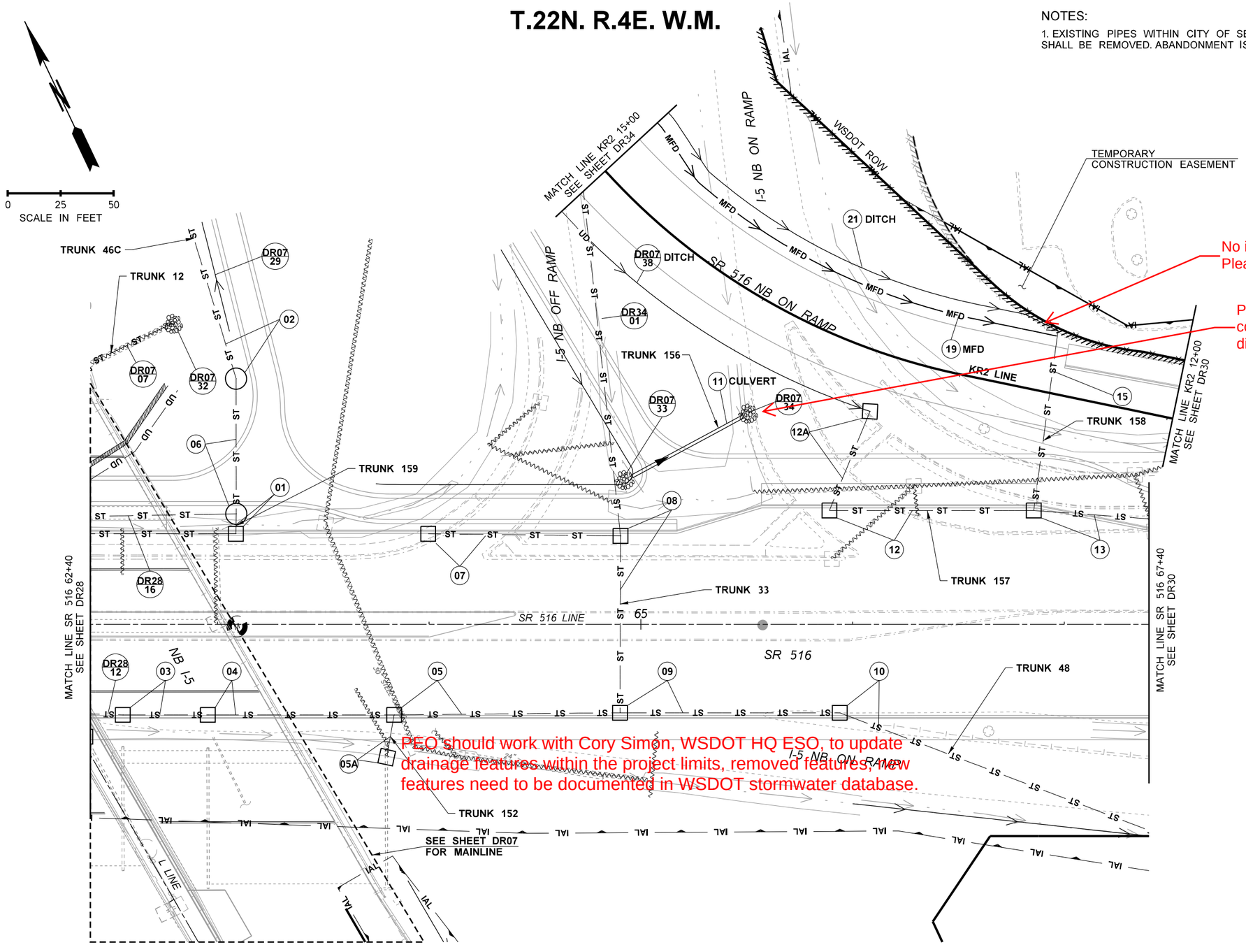
T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 12	DP08
TRUNK 33	DP26
TRUNK 46C	DP25
TRUNK 48	DP24
TRUNK 152	DP34
TRUNK 156	DP26
TRUNK 157	DP27
TRUNK 158	DP27
TRUNK 159	DP36



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
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- IMPACT AREA LINE
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- DROP INLET
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- PROPOSED DRAINAGE DITCH
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- PROPOSED MEDIA FILTER DRAIN
- PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR29.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:35:23 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR29

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 36	DP18
TRUNK 36A	DP18
TRUNK 36B	DP18
TRUNK 37	DP16
TRUNK 157	DP27
TRUNK 160	DP28
TRUNK 163	DP29

0 25 50
SCALE IN FEET

TEMPORARY CONSTRUCTION EASEMENT

MATCH LINE KR2 12+00 SEE SHEET DR29

SR 516 NB ON RAMP

KR2 LINE

WETLA 2.22

MATCH LINE SR 516 67+40 SEE SHEET DR29

MATCH LINE SR 516 72+40 SEE SHEET DR31

SR 516

SR 516 LINE

KR3 LINE

SE2 LINE

TRUNK 157

TRUNK 37

TRUNK 160

TRUNK 36B

TRUNK 36A

TRUNK 36

TRUNK 163

24 DITCH

20 DITCH

I-5 NB ON RAMP

SR 516 NB OFF RAMP

I-5 NB OFF RAMP

SR 516 NB ON RAMP FROM EB

MFD

CABS I2 SEE DD03 FOR MORE INFORMATION

DR29 13

DR24 06

DR24 09 DITCH

DD02 01

DD02 02

DD02 03

EXISTING POND I SEE DD02 FOR MORE INFORMATION

Need inlet protection.

Does this existing 18" pipe have the capacity to convey contributing flows? Other pipes upstream in the system are 24" diam.

MATCH LINE KR3 12+50 SEE SHEET DR24

MATCH LINE KR1 16+60 SEE SHEET DR24

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR30.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:35:33 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY NOT FOR CONSTRUCTION

SCOTT A. MESIC — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON CONSTRUCTION / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

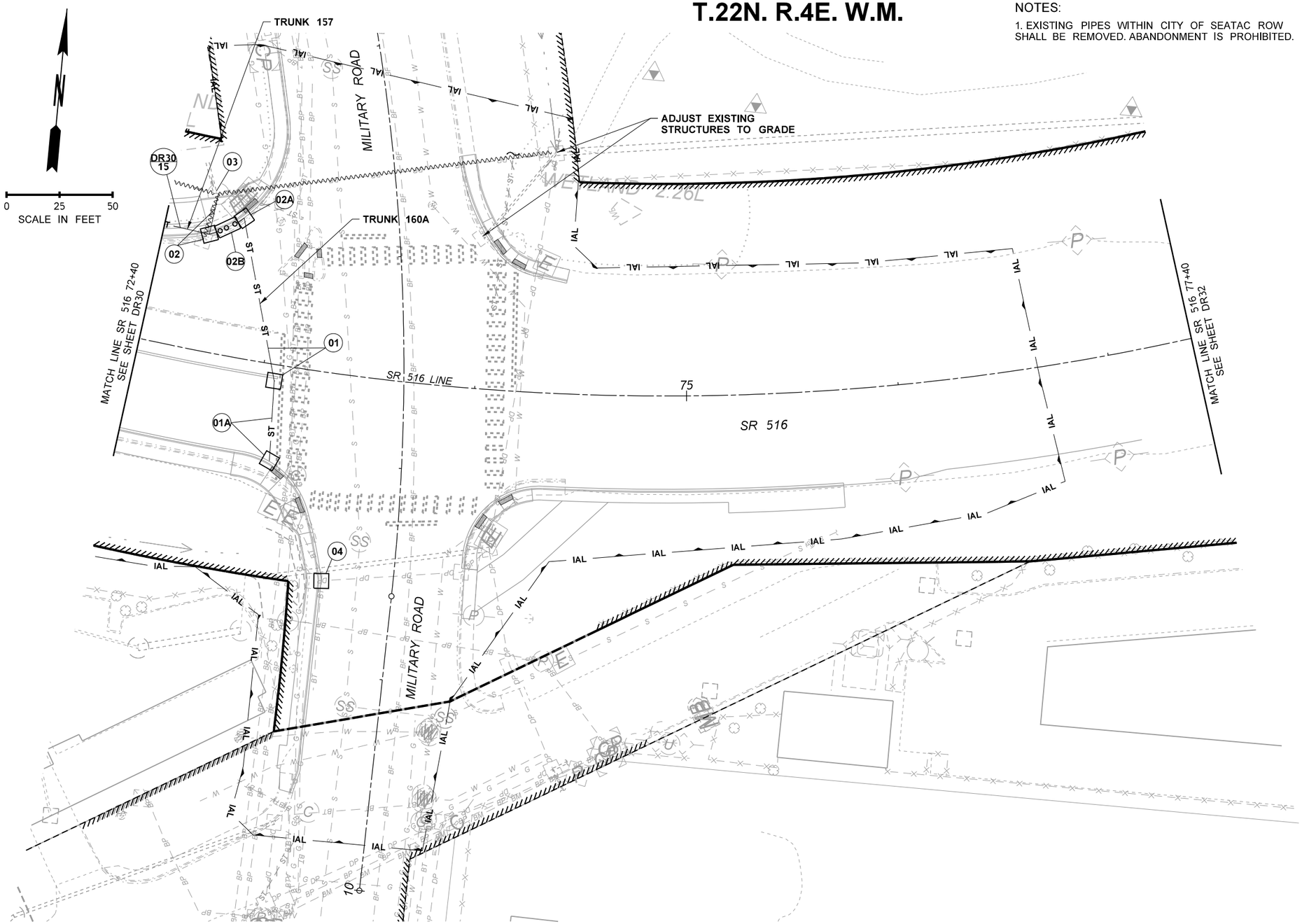
PLAN REF NO DR30

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
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- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 157	DP27
TRUNK 160A	DP28

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR31.dgn						
TIME	5:35:43 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR31

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 25 50
SCALE IN FEET

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
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- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR32.dgn						
TIME	5:35:52 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR32

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

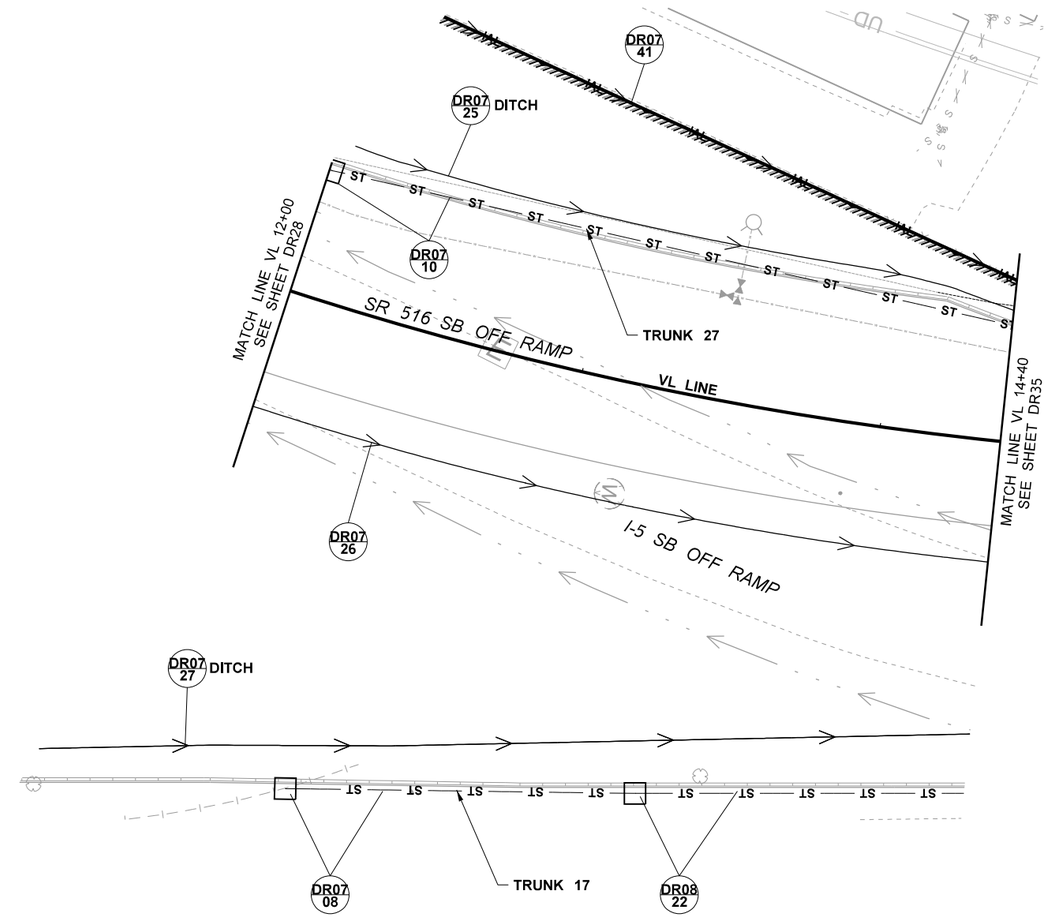
0 25 50
SCALE IN FEET

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 17	DP10
TRUNK 27	DP15



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
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- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR33.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:36:02 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY				JOB NUMBER		
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR33

SHEET
OF
SHEETS

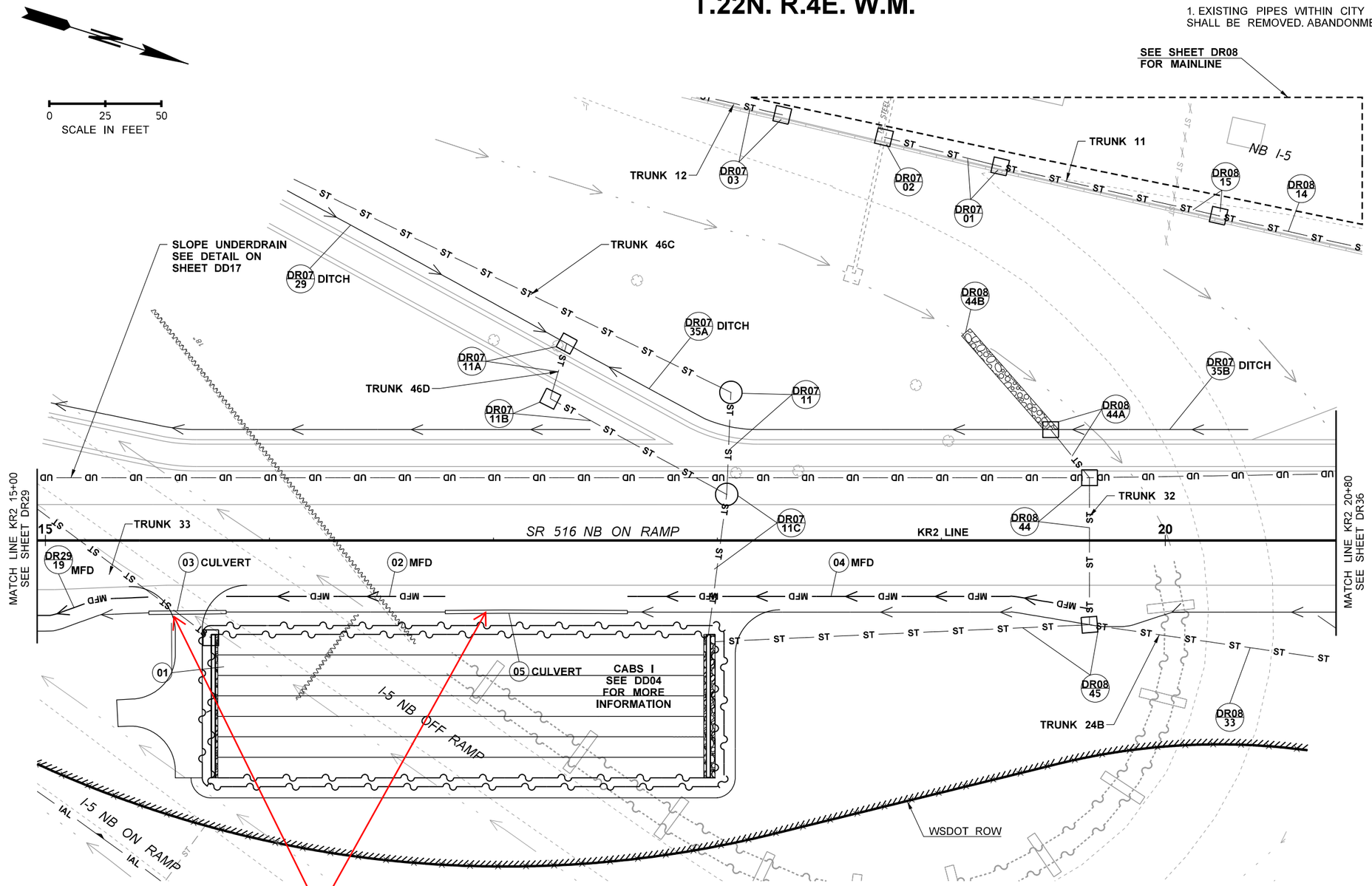
T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 11	DP07
TRUNK 12	DP08
TRUNK 24B	DP14
TRUNK 32	DP17
TRUNK 33	DP26
TRUNK 46C	DP25
TRUNK 46D	DP33



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
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- DROP INLET
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- EXISTING CULVERT
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- EXISTING STORM TO BE REMOVED/ABANDONED
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- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR34.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:36:12 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY				JOB NUMBER		
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR34

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

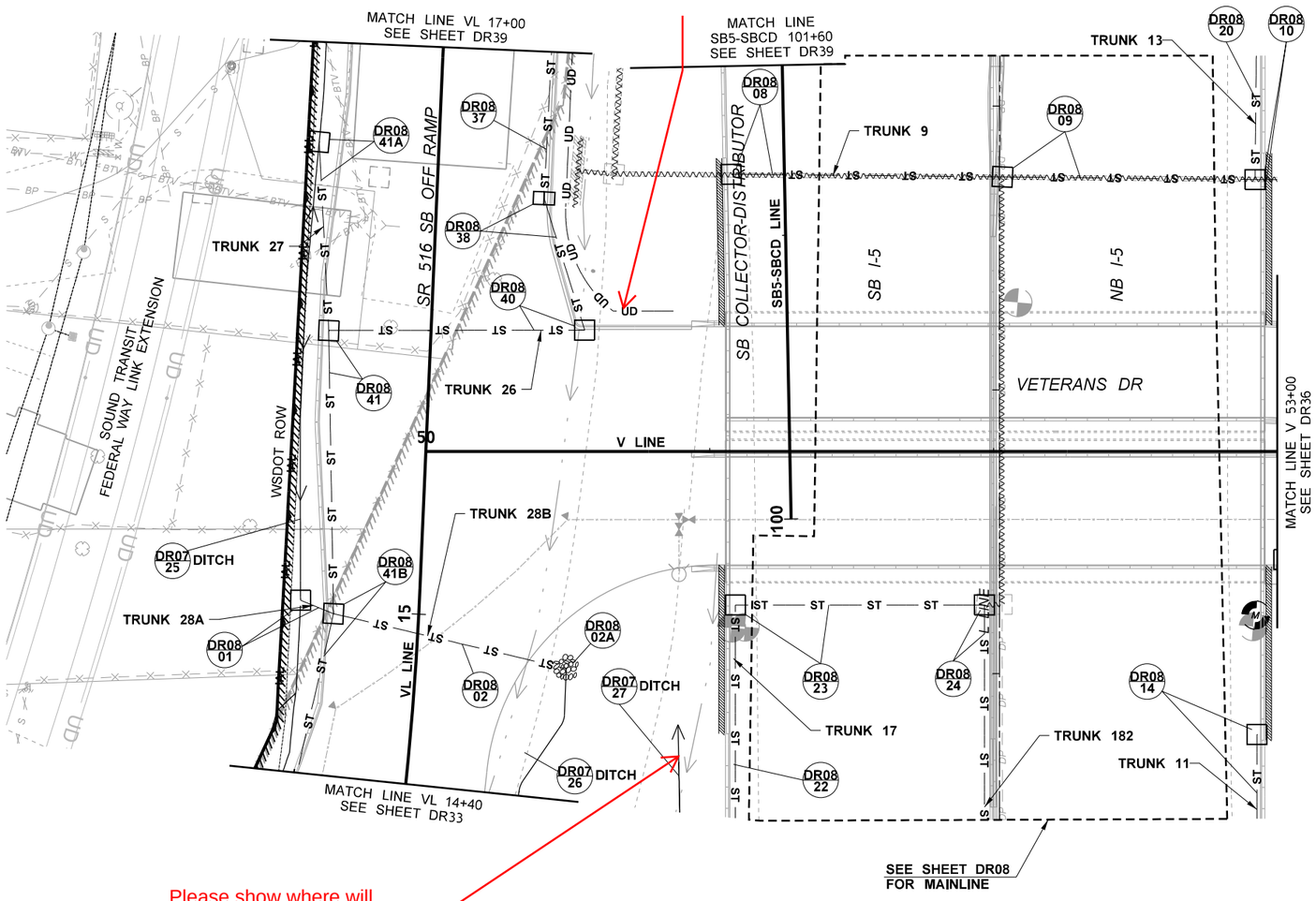
DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 9	DP07
TRUNK 11	DP07
TRUNK 13	DP08
TRUNK 17	DP10
TRUNK 26	DP15
TRUNK 27	DP15
TRUNK 28A	DP29
TRUNK 28B	DP29
TRUNK 182	DP12

N

0 25 50
SCALE IN FEET

Please show where the underdrain empties.



Please show where will ditch flow go from here?

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
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- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- NEW PAVING — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR35.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:36:21 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR35

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

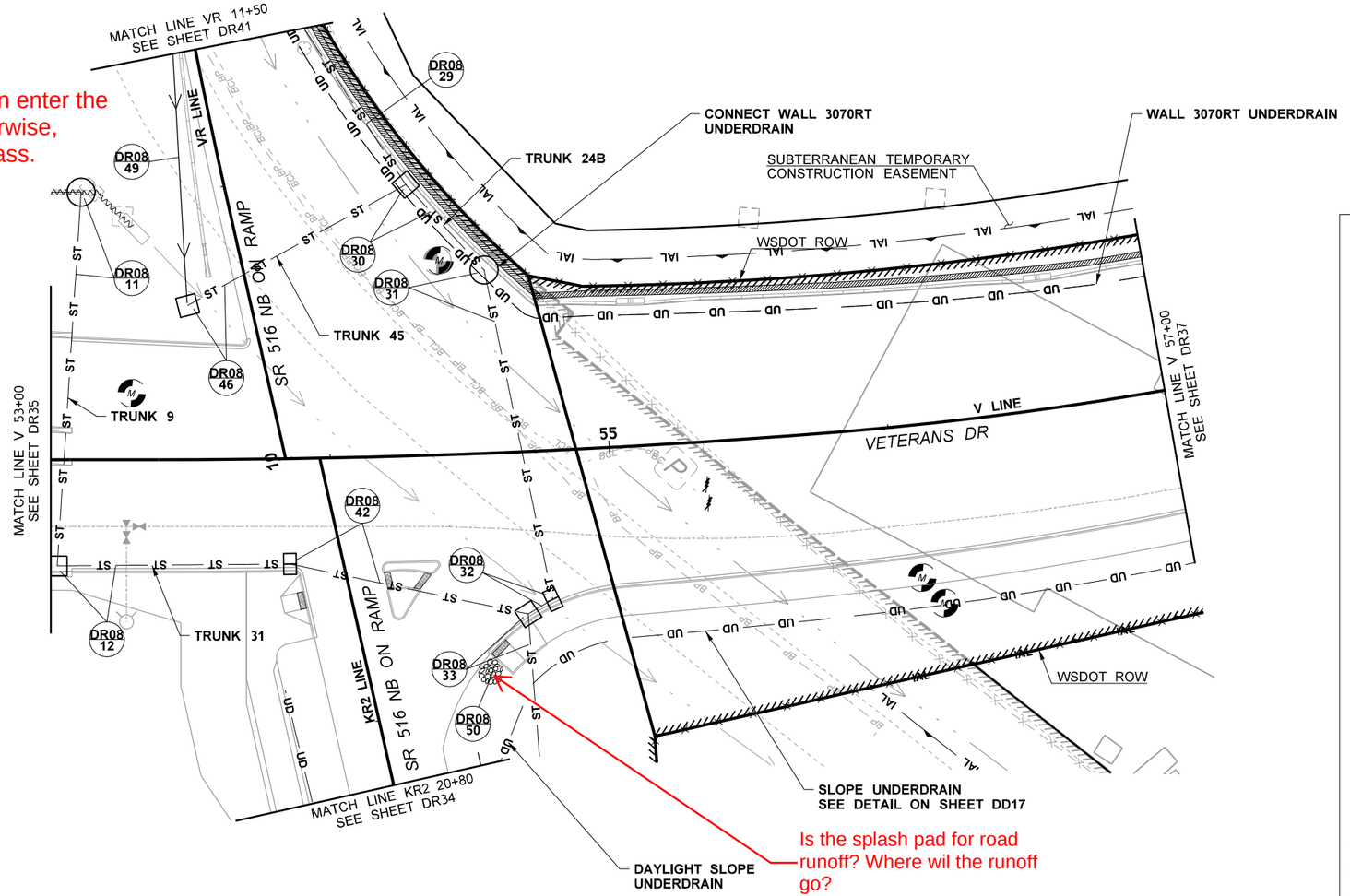
1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 9	DP07
TRUNK 24B	DP14
TRUNK 31	DP16
TRUNK 45	DP22

0 25 50
SCALE IN FEET

Make sure all the ditch flow can enter the CB grate as anticipated. Otherwise, account and address flow bypass.



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
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- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR36.dgn				REGION NO. 10	STATE WASH
TIME	5:36:31 PM				JOB NUMBER	FED.AID PROJ.NO.
DATE	12/16/2021					
PLOTTED BY	GlennR					
DESIGNED BY	T. STANLEY					
ENTERED BY	N. KLYZHKO					
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424	LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21			
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY		

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR36

SHEET OF SHEETS

T.22N. R.4E. W.M.

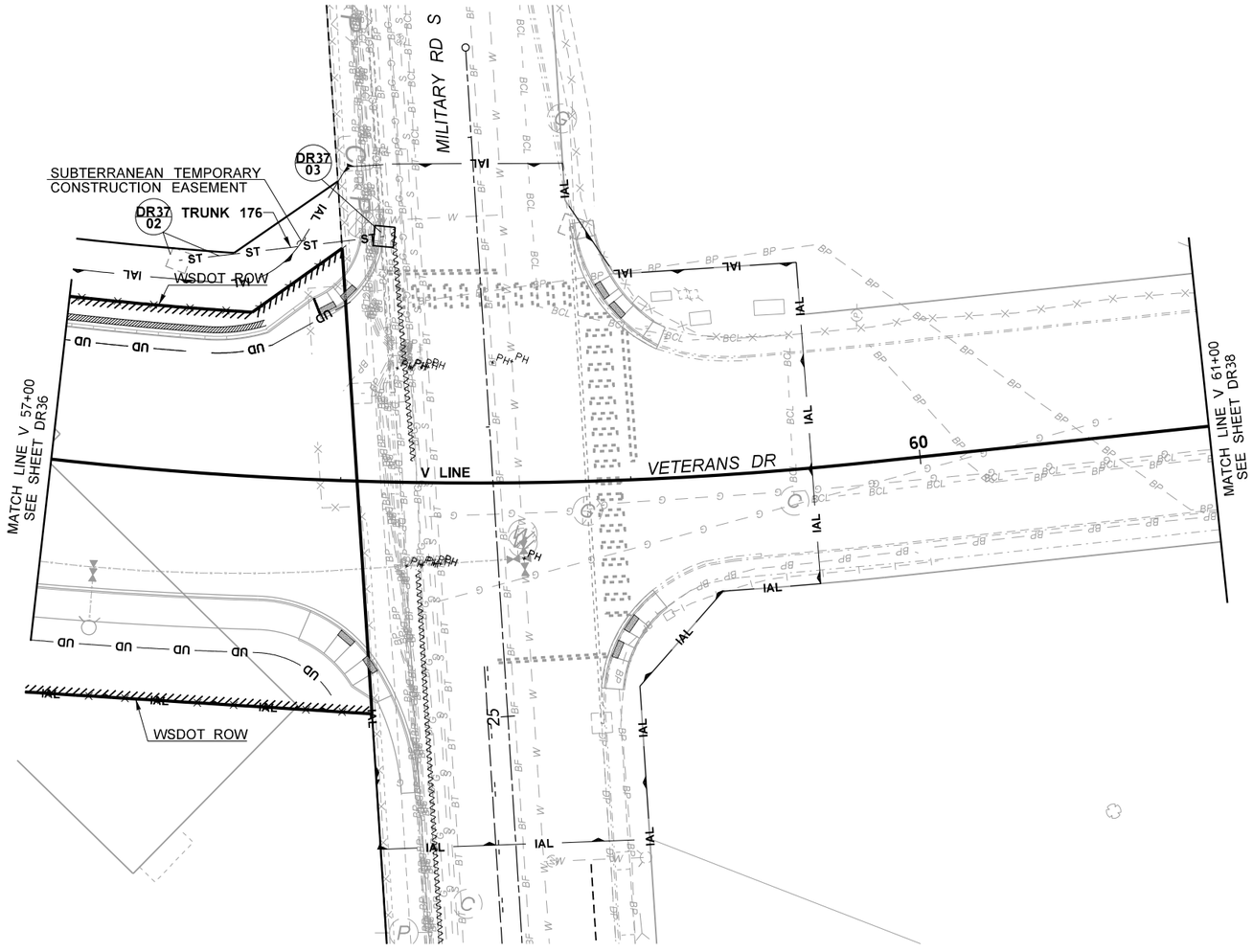
NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 176	DP33

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR37.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:36:41 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR37

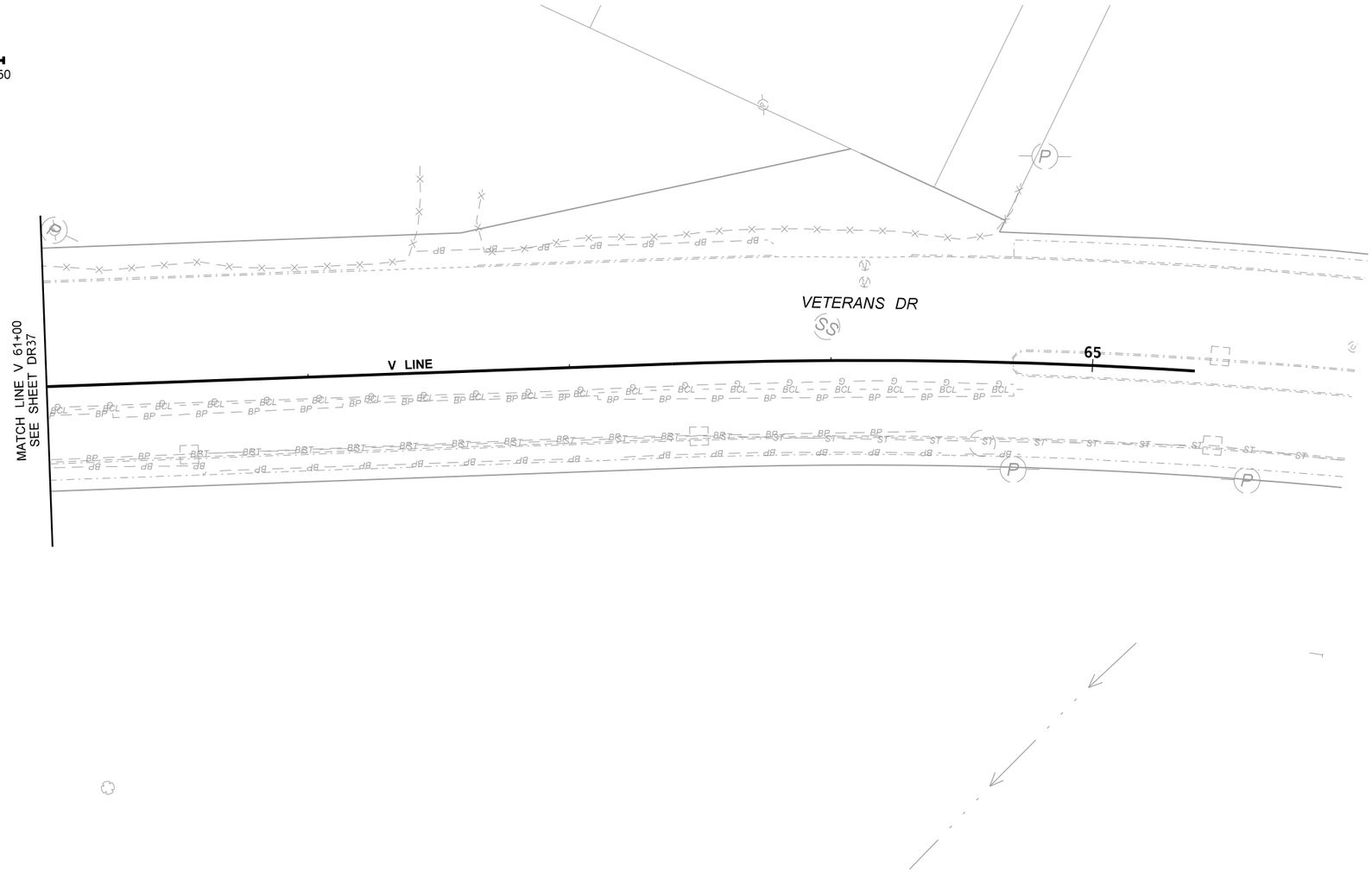
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- CSRZ — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR38.dgn						
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DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR38

SHEET OF SHEETS

T.22N. R.4E. W.M.

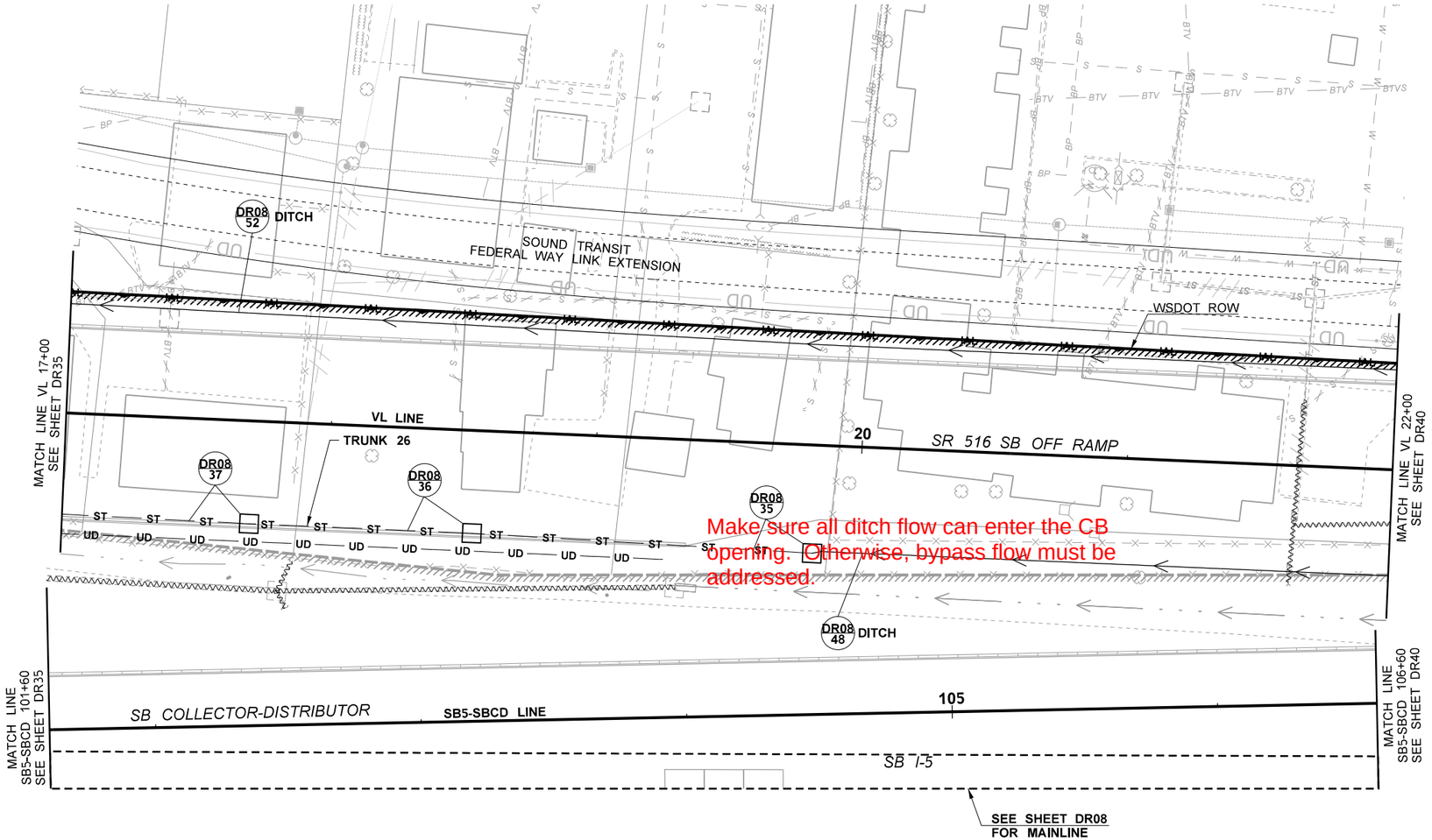
NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 26	DP15

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — EXISTING STORM DRAIN
- ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR39.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	7:16:29 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR39

SHEET OF SHEETS

T.22N. R.4E. W.M.

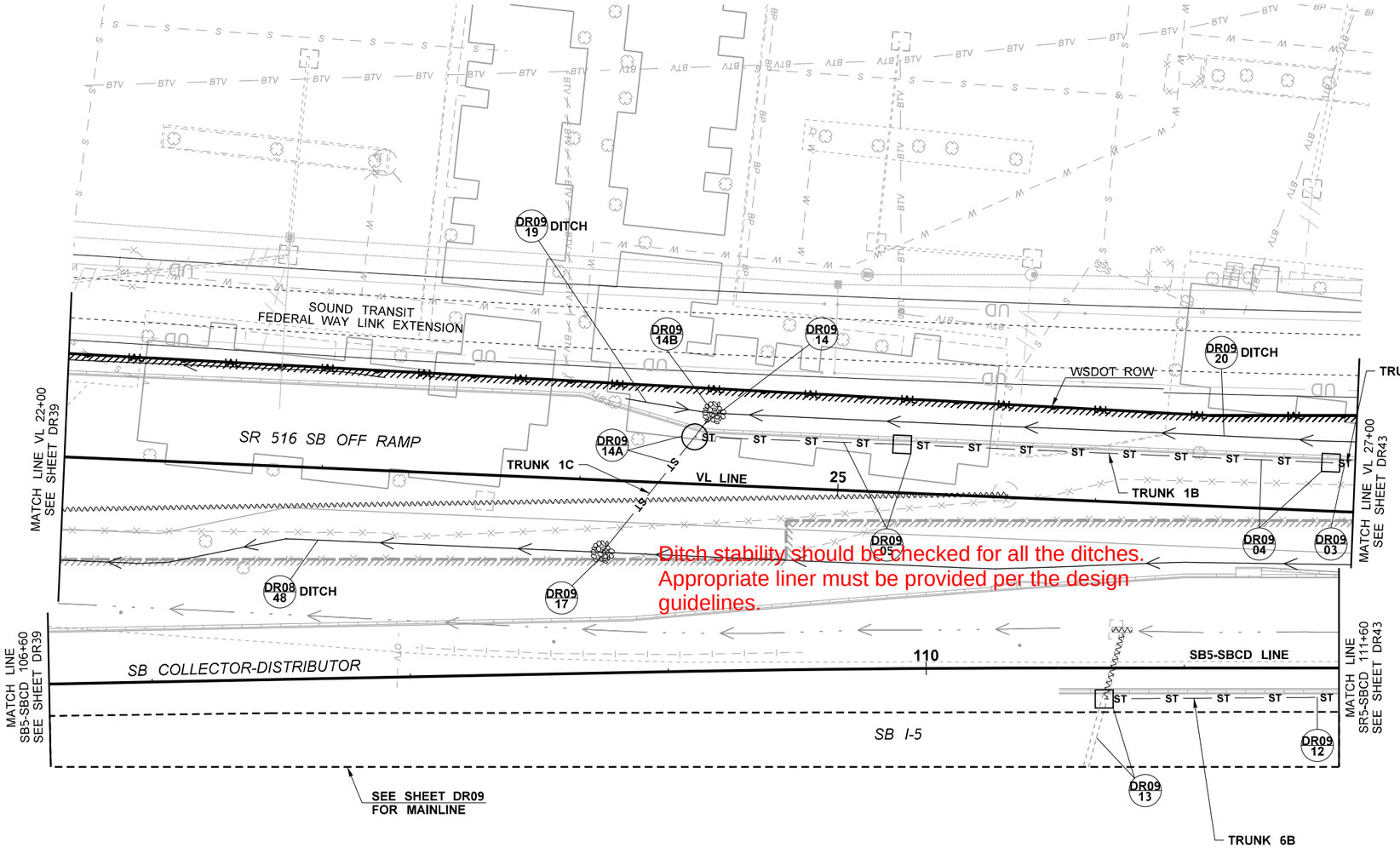
NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 1A	DP01
TRUNK 1B	DP02
TRUNK 1C	DP07
TRUNK 6B	DP05

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR40.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	7:17:32 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY				JOB NUMBER		
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR40

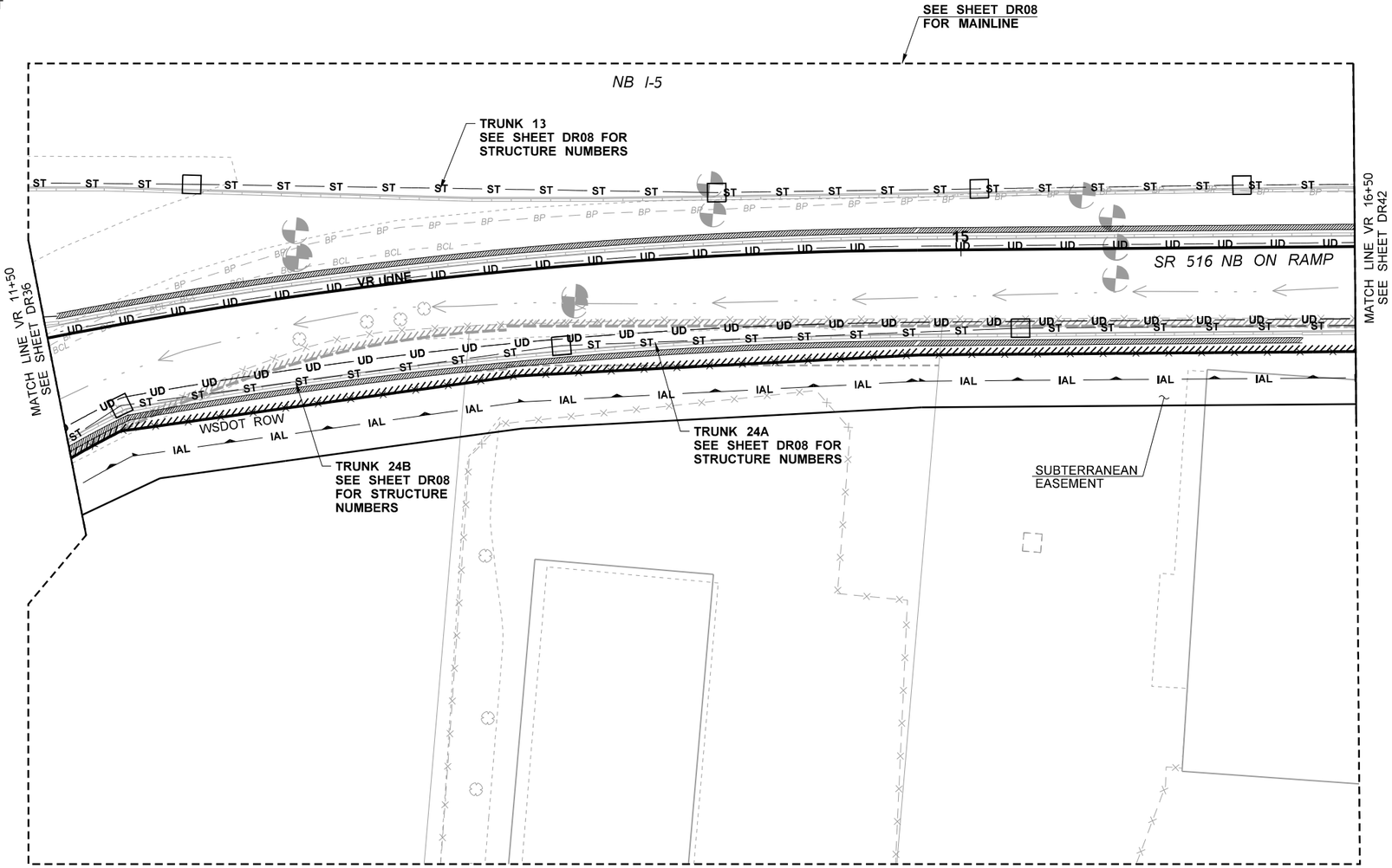
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 13	DP08
TRUNK 24A	DP13
TRUNK 24B	DP14

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR41.dgn						
TIME	5:37:22 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.
C9424		

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

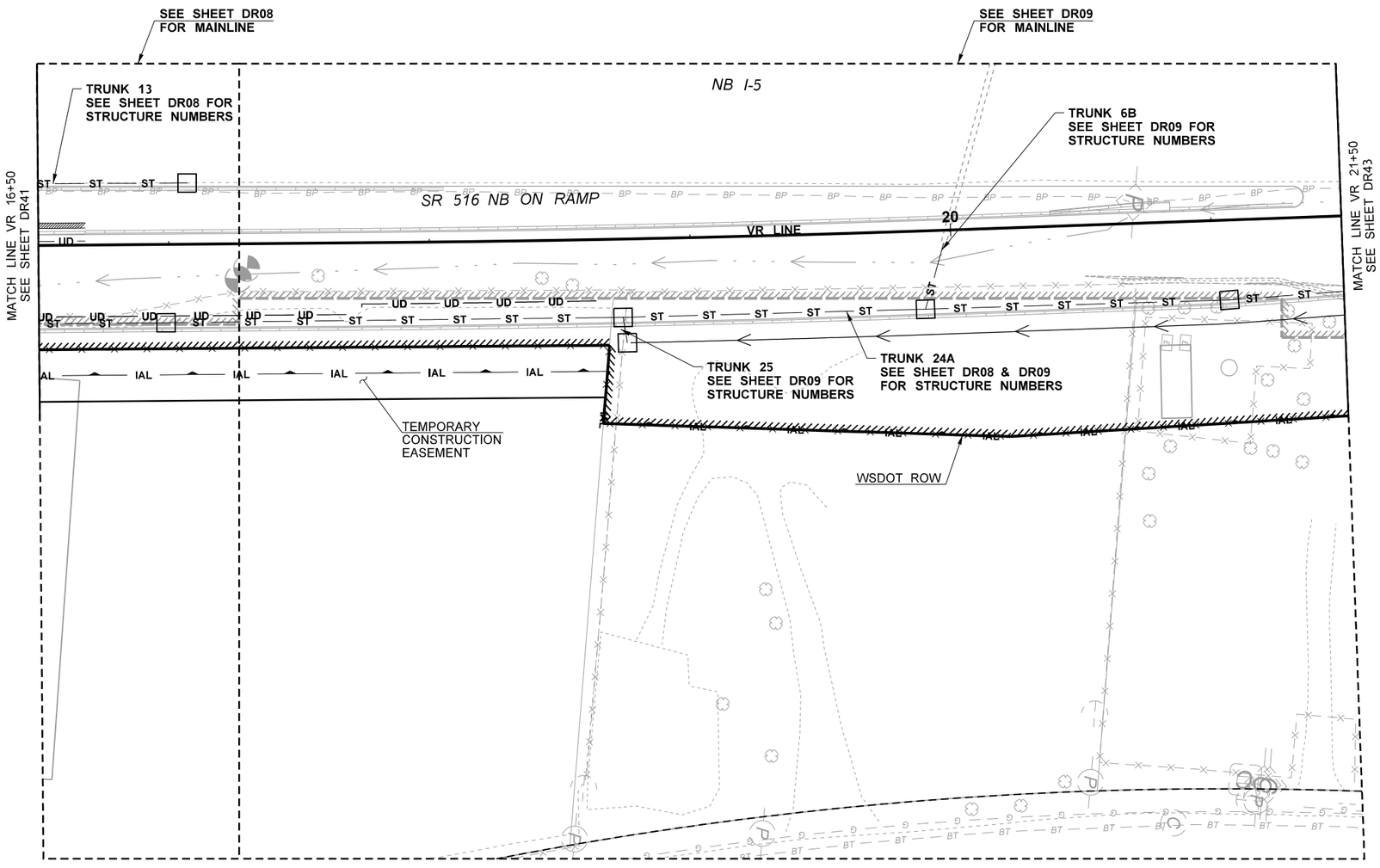
PLAN REF NO
DR41
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 6B	DP05
TRUNK 24A	DP13
TRUNK 25	DP14

0 25 50
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- 24"x24" — ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR42.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:37:31 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

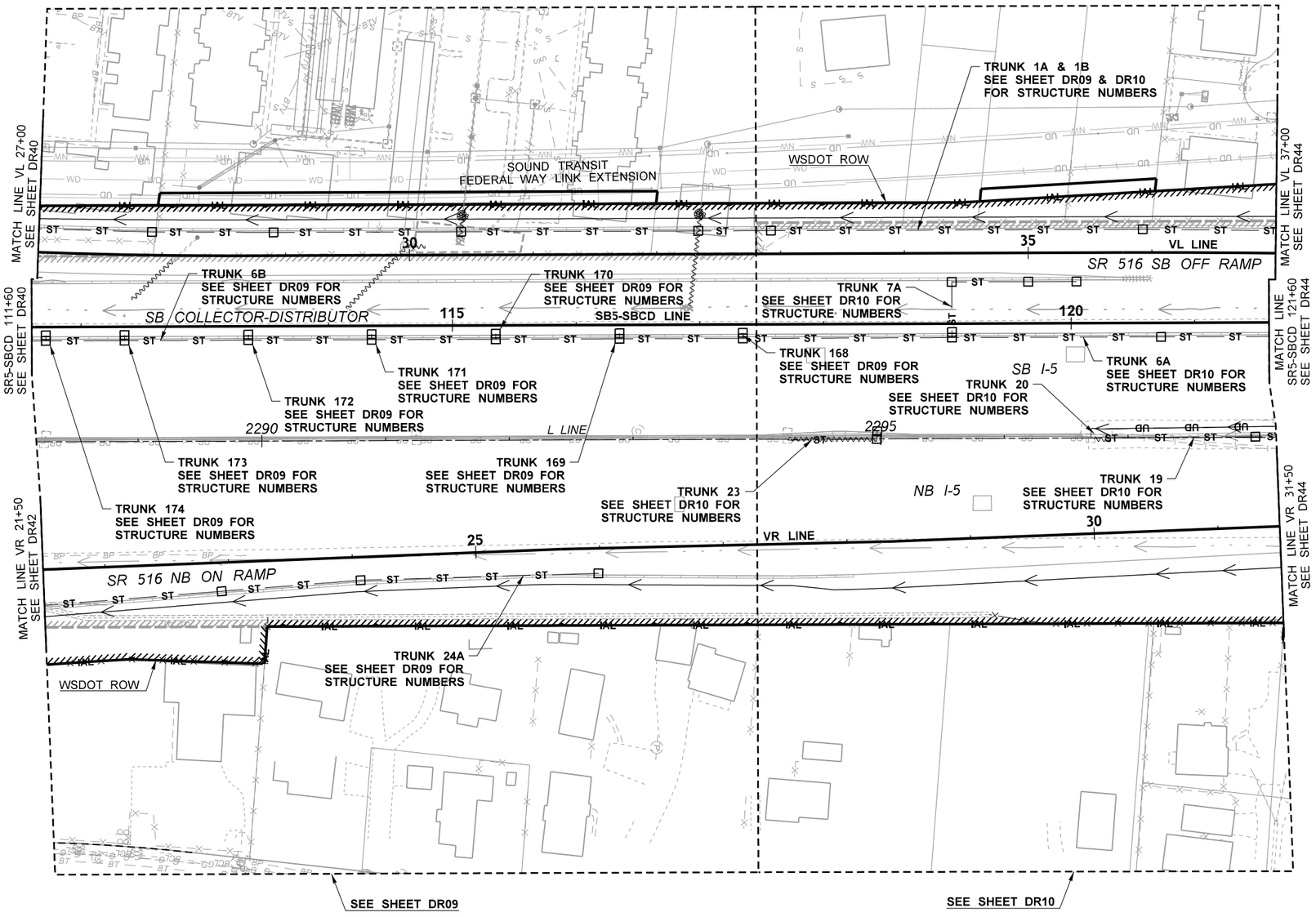
DRAINAGE PLAN

PLAN REF NO
DR42

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR43.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:18:39 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR43

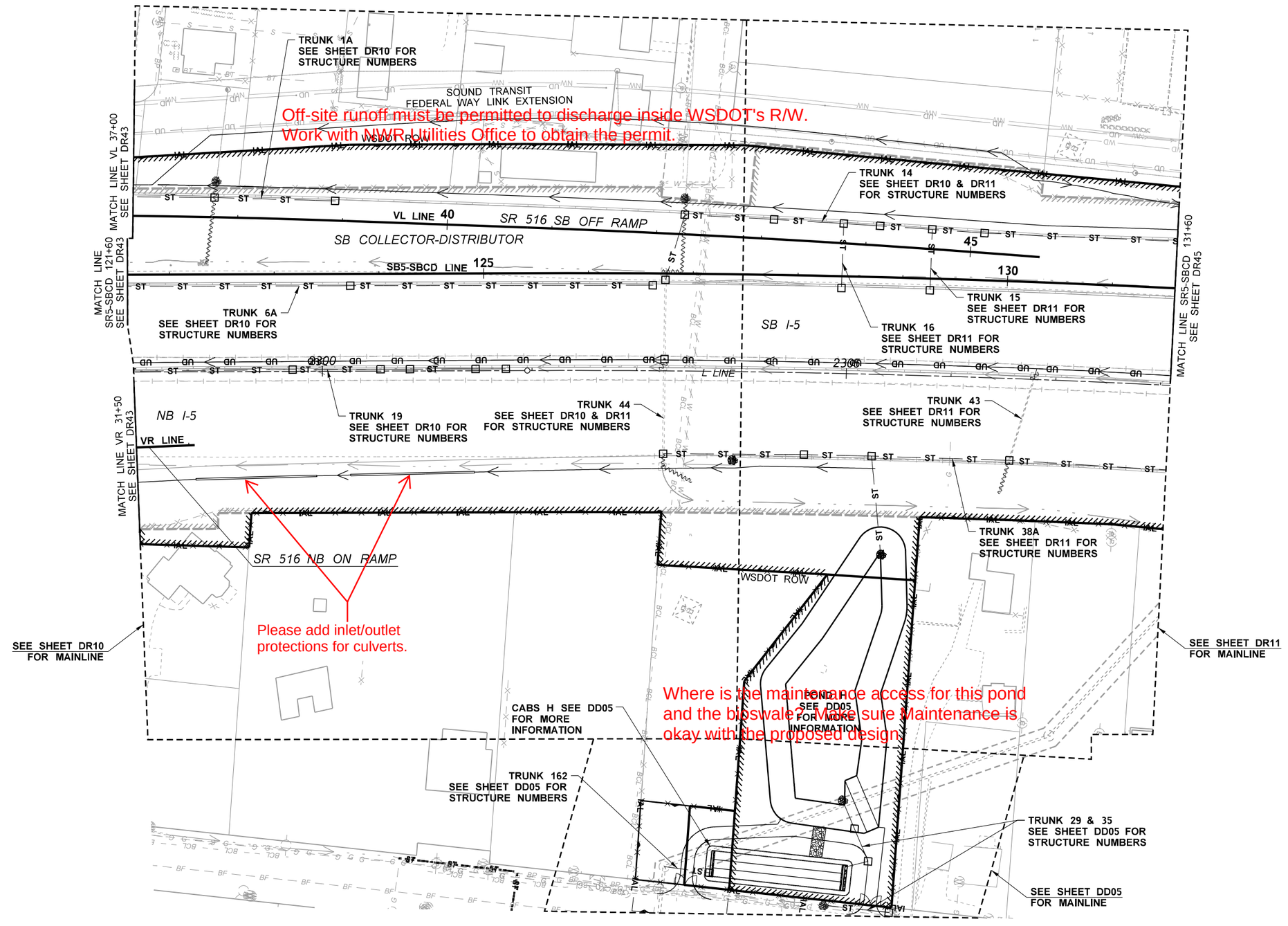
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM



FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR44.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:26:59 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

SCOTT A. MESIC — 39577 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY
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Washington State Department of Transportation

ATKINSON CONSTRUCTION / Jacobs

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

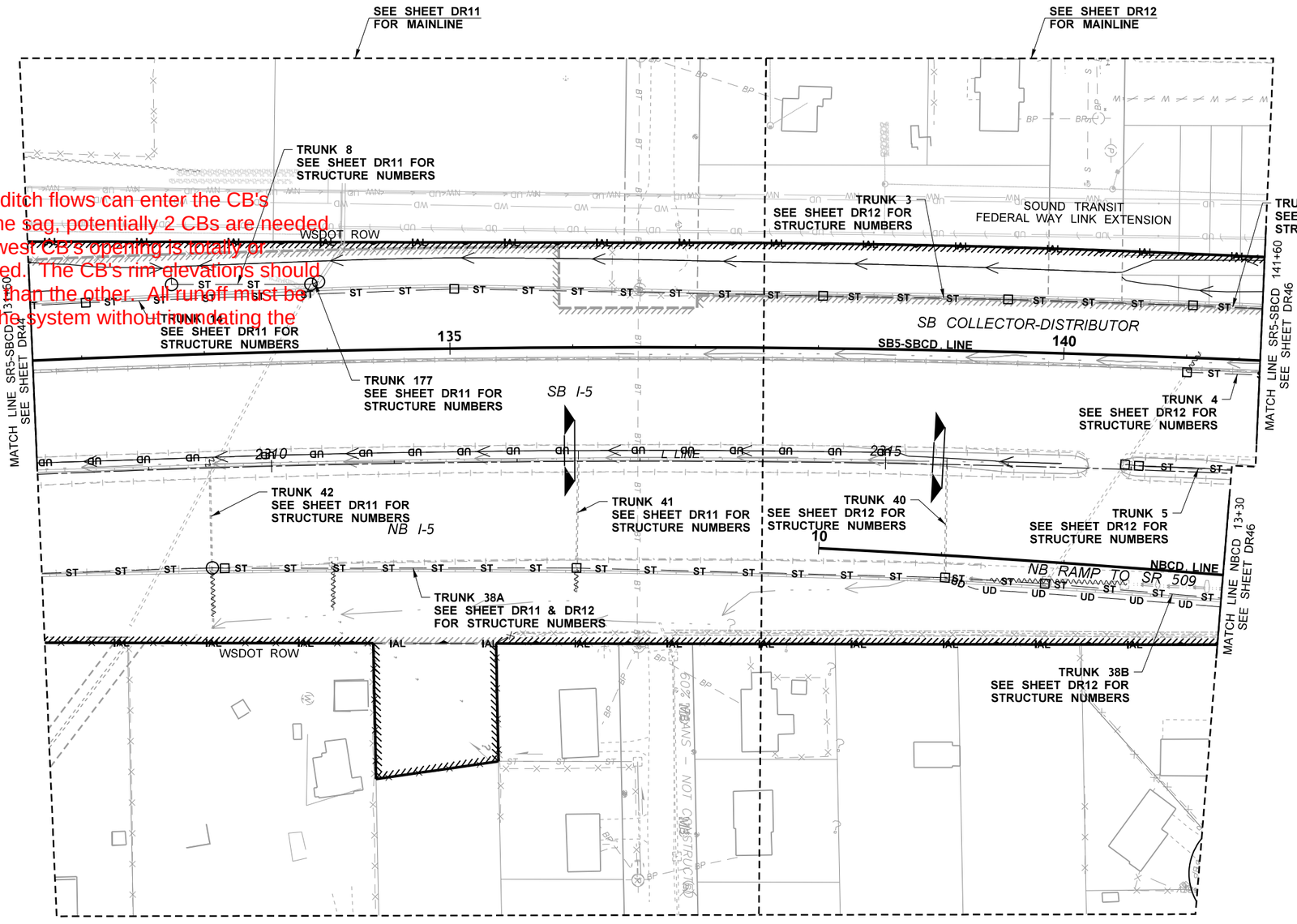
PLAN REF NO
DR44

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 50 100
SCALE IN FEET

Make sure all ditch flows can enter the CB's opening. At the sag, potentially 2 CBs are needed in case the lowest CB's opening is totally or partially plugged. The CB's rim elevations should be one higher than the other. All runoff must be able to enter the system without flooding the highways.



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
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- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR45.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:25:08 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

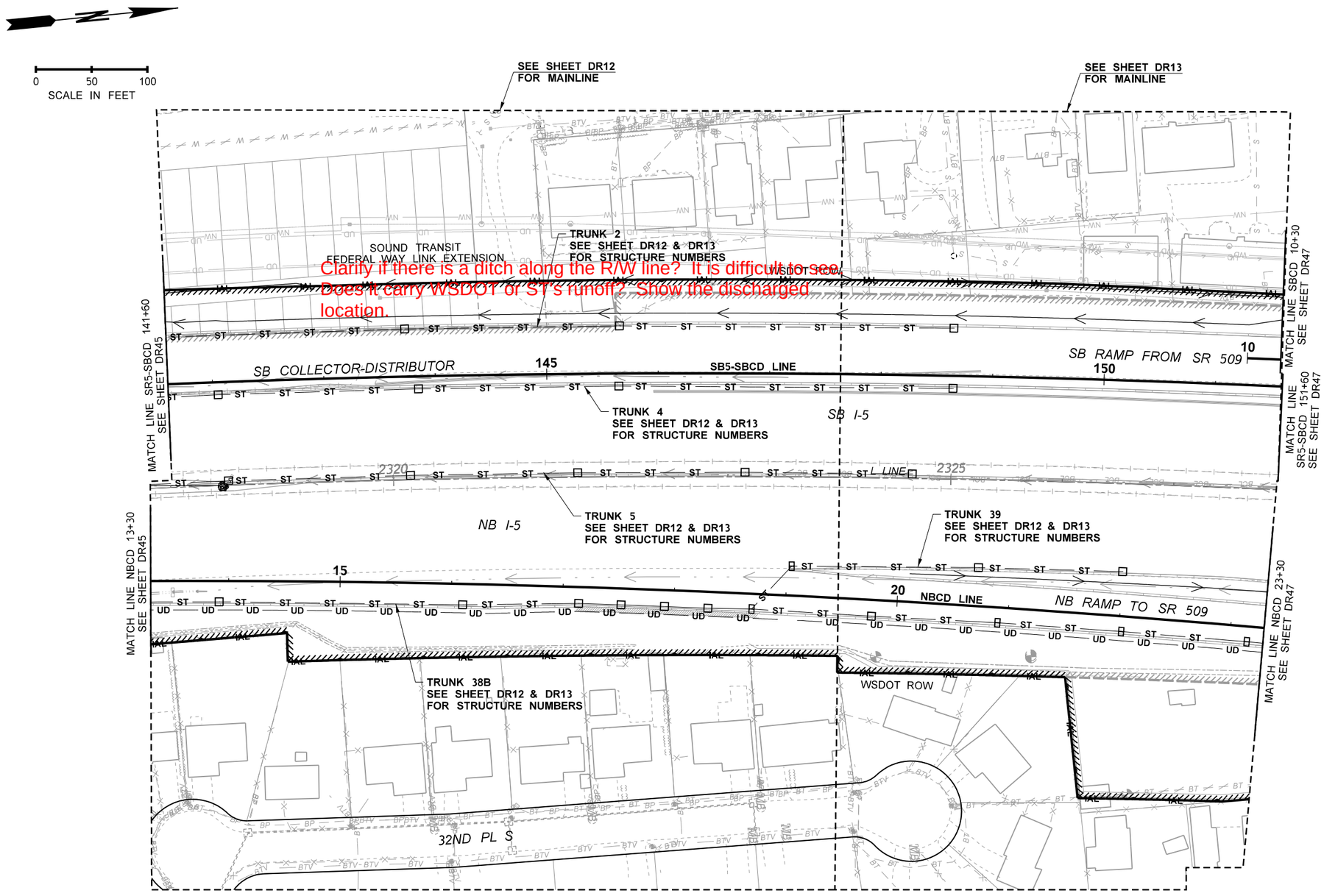
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR45

SHEET
OF
SHEETS

T.22N. R.4E. W.M.



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworkIng\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR46.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	7:20:09 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

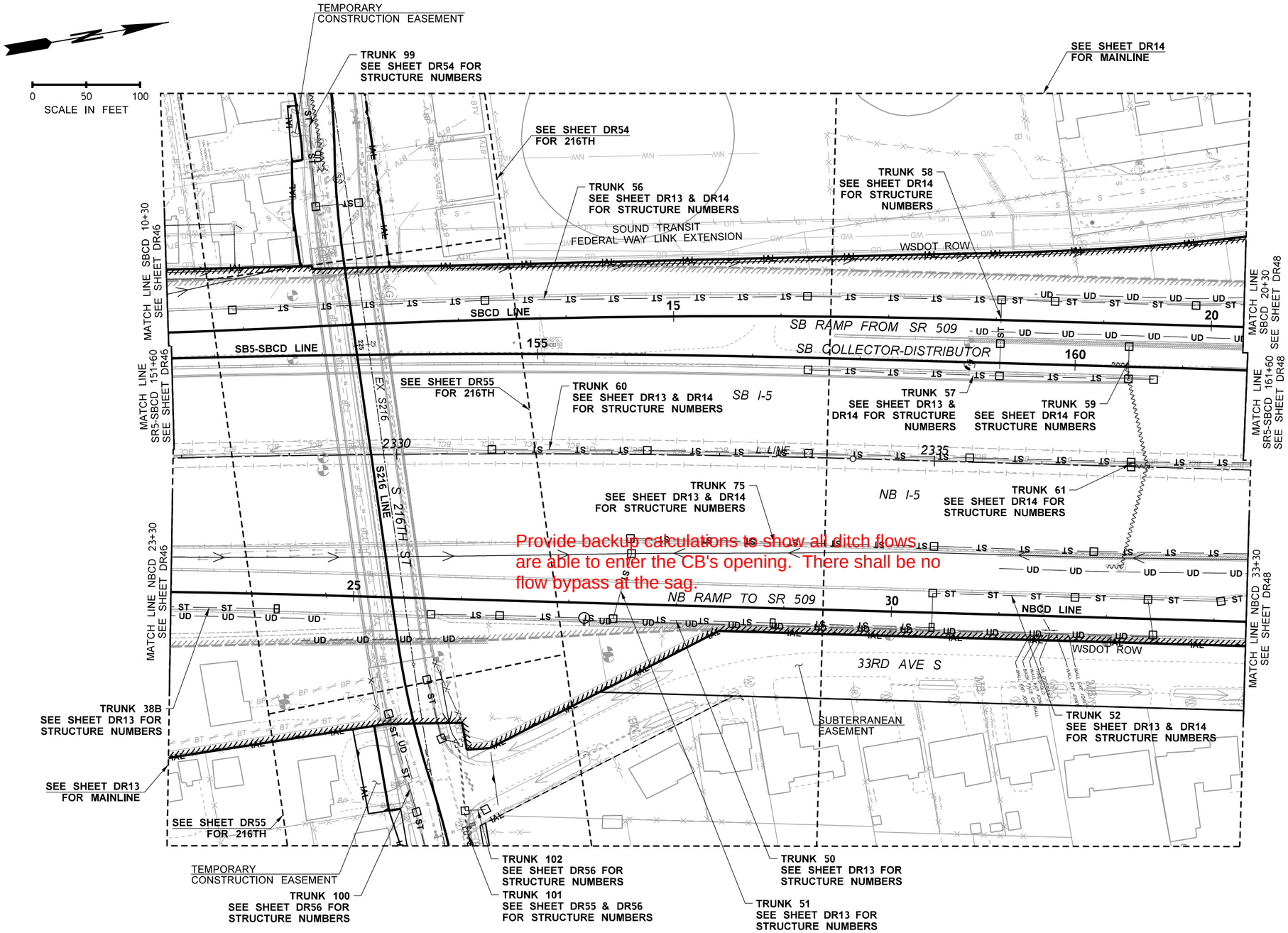
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR46

SHEET OF SHEETS

T.22N. R.4E. W.M.



Provide backup calculations to show all ditch flows are able to enter the CB's opening. There shall be no flow bypass at the sag.

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR47.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:28:14 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY NOT FOR CONSTRUCTION

SCOTT A. MESIC — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR47

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 50 100
SCALE IN FEET

GRAVEL GUTTER SEE DETAIL ON DD18

TEMPORARY CONSTRUCTION EASEMENT

WSDOT ROW

SOUND TRANSIT FEDERAL WAY LINK EXTENSION

04C SPLASH PAD

MATCH LINE SBCD 20+30 SEE SHEET DR47

MATCH LINE SBCD 30+90 SEE SHEET DR49

MATCH LINE SR5-SBCD 161+60 SEE SHEET DR47

MATCH LINE NBCD 33+30 SEE SHEET DR47

MATCH LINE NBCD 45+00 SEE SHEET DR49

32ND AVE S

33RD AVE S

SB COLLECTOR-DISTRIBUTOR

SB RAMP FROM SR 509

NB RAMP TO SR 509

SBCD LINE

SR5-SBCD LINE

NBCD LINE

SB I-5

NB I-5

TRUNK 56
SEE SHEET DR13/DR14 FOR STRUCTURE NUMBERS

TRUNK 103AB
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 103A
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 107
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 109

TRUNK 62
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 75
SEE SHEET DR13/DR14 FOR STRUCTURE NUMBERS

TRUNK 60
SEE SHEET DR13/DR14 FOR STRUCTURE NUMBERS

TRUNK 105
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 108
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 75A
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 54A

SEE SHEET DR15 FOR MAINLINE

TRUNK 76C
SEE SHEET DR15 FOR STRUCTURE NUMBERS

TRUNK 64
SEE SHEET DR14 FOR STRUCTURE NUMBERS

SUBTERRANEAN EASEMENT

SEE SHEET DR14 FOR MAINLINE

TRUNK 52
SEE SHEET DR13/DR14 FOR STRUCTURE NUMBERS

TRUNK 63
SEE SHEET DR14 FOR STRUCTURE NUMBERS

TRUNK 76A
SEE SHEET DR15 FOR STRUCTURE NUMBERS

TRUNK 68
SEE SHEET DR15 FOR STRUCTURE NUMBERS

WALL 42RT
UNDERDRAIN
DAYLIGHT ON SLOPE

DRAINAGE LEGEND:

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- ST — PROPOSED STORM DRAIN
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- EXISTING STORM TO BE REMOVED/ABANDONED
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- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 54A	DP52
TRUNK 109	DP84

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR48.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	7:22:33 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

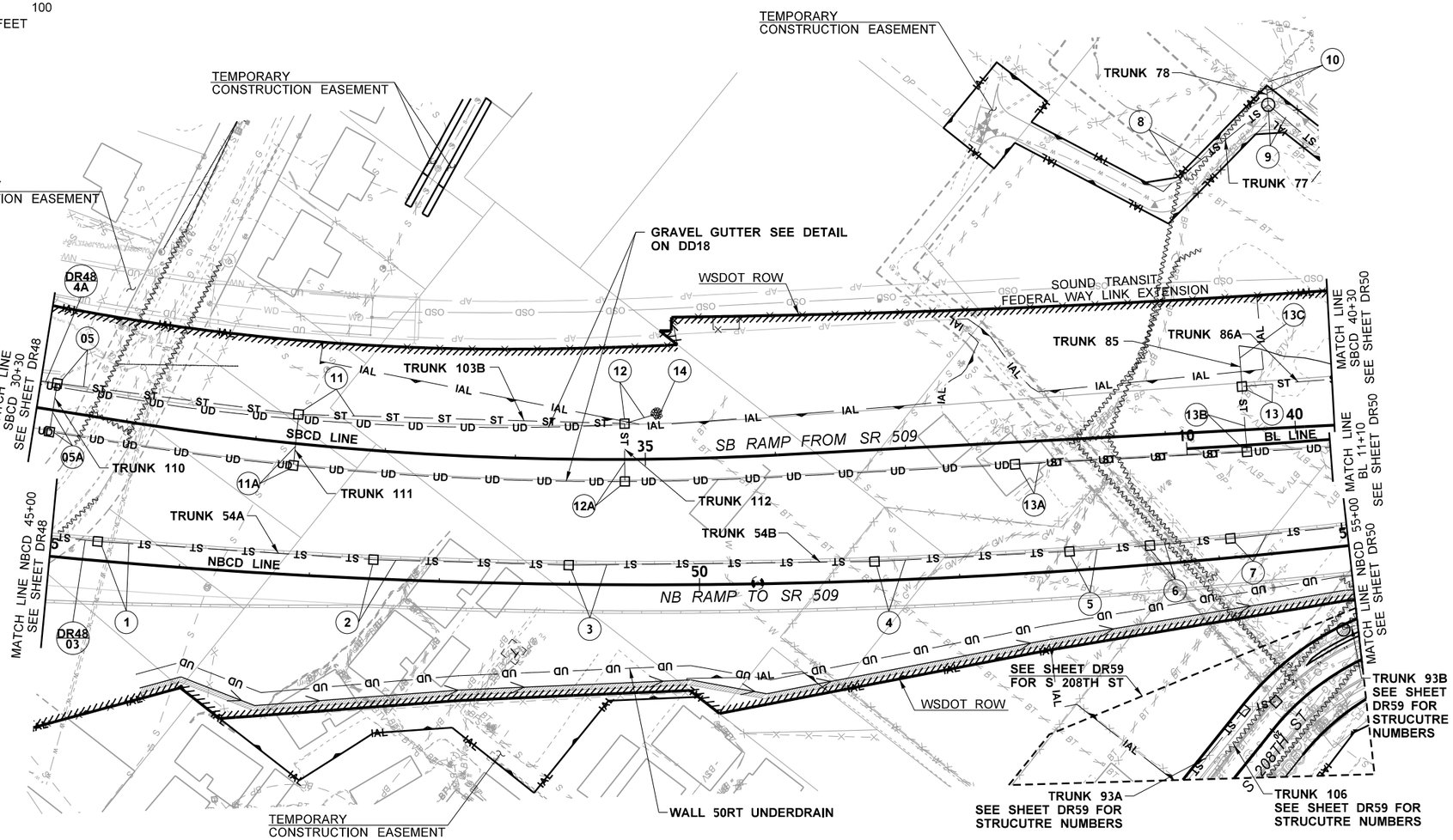
PLAN REF NO DR48

SHEET OF SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 54A	DP52
TRUNK 54B	DP53
TRUNK 77	DP67
TRUNK 78	DP67
TRUNK 85	DP71
TRUNK 86A	DP72
TRUNK 103B	DP81
TRUNK 110	DP84
TRUNK 111	DP84
TRUNK 112	DP85

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
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- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
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- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR49.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:28:33 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR49

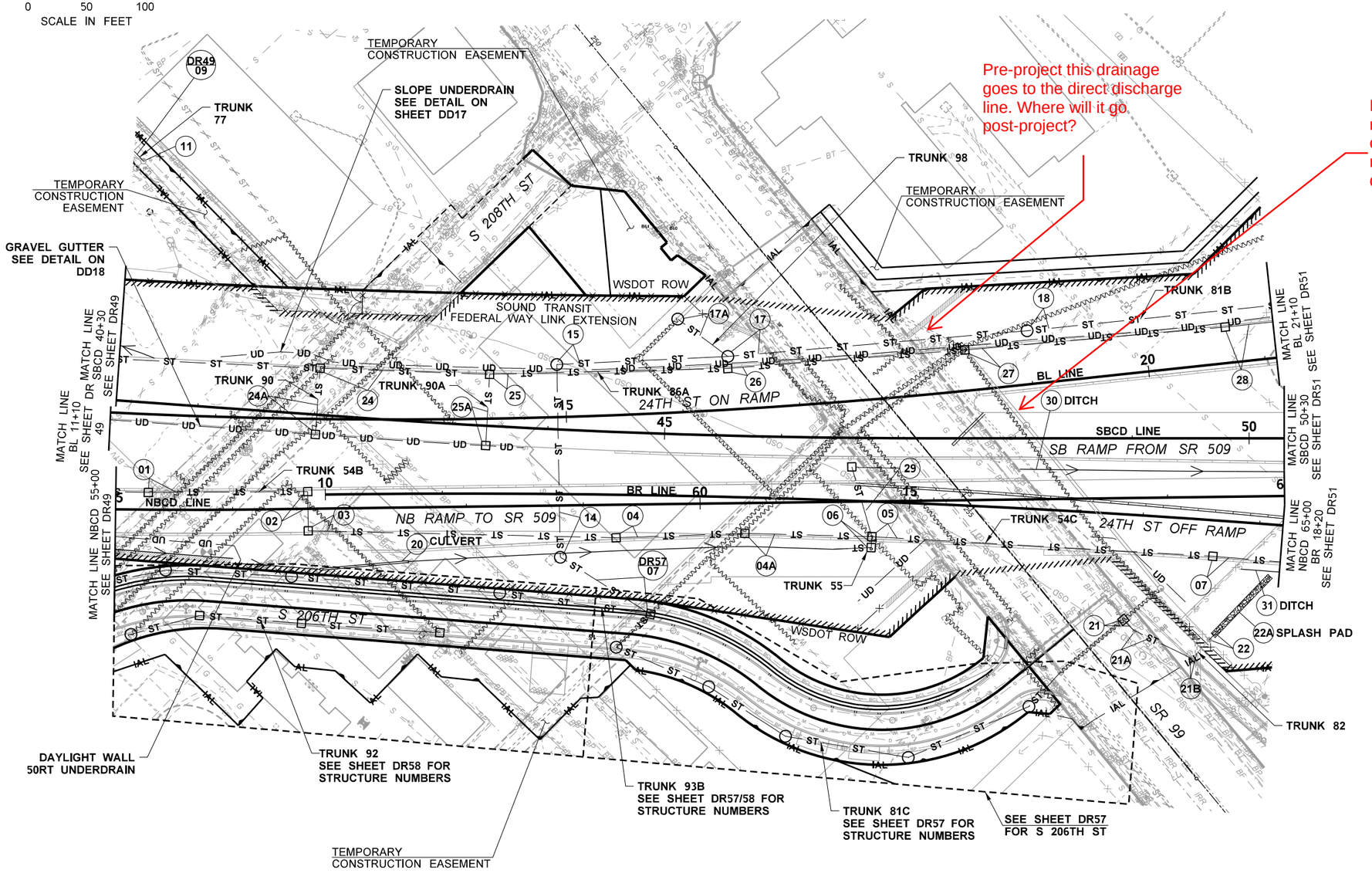
SHEET
OF
SHEETS

T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 54B	DP53
TRUNK 54C	DP54
TRUNK 55	DP55
TRUNK 77	DP67
TRUNK 81B	DP69
TRUNK 82	DP70
TRUNK 86A	DP72
TRUNK 90	DP75
TRUNK 90A	DP75
TRUNK 98	DP78

0 50 100
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
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- PROPOSED CULVERT
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- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR50.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:28:40 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/3/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR50

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 54C	DP54
TRUNK 54D	DP55
TRUNK 74	DP62
TRUNK 80	DP68
TRUNK 81A	DP68
TRUNK 81B	DP69
TRUNK 83	DP70
TRUNK 84	DP70
TRUNK 85	DP71
TRUNK 86A	DP72
TRUNK 86B	DP73
TRUNK 87	DP73
TRUNK 88	DP74
TRUNK 113	DP85
TRUNK 114	DP86

0 50 100
SCALE IN FEET

Please work with Maintenance Office and make sure the trunk is able to turn around.

Structure 23 and 24, 12 and 12A are too close to each other. Check constructibility.

Make sure all ditch flows can enter the CB's opening. Provide backup calculations.

Make sure all ditch flows can enter the CB's opening. Provide backup calculations.

SLOPE UNDERDRAIN SEE DETAIL ON SHEET DD17

TEMPORARY CONSTRUCTION EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

WSDOT ROW

TRUNK 74

TRUNK 87

TRUNK 81A

TRUNK 81B

TRUNK 86A

TRUNK 86B

TRUNK 113

TRUNK 80

TRUNK 88

TRUNK 84

TRUNK 83

TRUNK 54C

TRUNK 54D

TRUNK 114

CABS EFG SEE DD06 FOR MORE INFORMATION

POND DEFG SEE DD07 FOR MORE INFORMATION

24TH ST ON RAMP

SB RAMP FROM SR 509

NB RAMP TO SR 509

24TH ST OFF RAMP

S 204TH ST

SBCD LINE

NBCD LINE

BR LINE

BL LINE

MATCH LINE BL 21+10 SEE SHEET DR50

MATCH LINE BL 30+10 SEE SHEET DR52

MATCH LINE SBCD 50+30 SEE SHEET DR50

MATCH LINE SBCD 59+30 SEE SHEET DR53

MATCH LINE NBCD 65+00 BR 18+20 SEE SHEET DR50

MATCH LINE NBCD 74+00 SEE SHEET DR53

MATCH LINE BR 27+20 SEE SHEET DR53

DR50 18 DITCH

DR50 30 DITCH

DR50 28 DITCH

DR50 07 DITCH

DR50 31 DITCH

45 DITCH

39 DITCH

40 DITCH

41 DITCH

42 DITCH

43 DITCH

44 DITCH

DR53 07

DRAINAGE LEGEND:

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- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- PROPOSED ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR51.dgn						
TIME	6:28:50 PM						
DATE	12/16/2021						
PLOTTED BY	glennr						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO. 10 | STATE WASH | JOB NUMBER | CONTRACT NO. C9424 | FED.AID PROJ.NO. | LOCATION NO.

PRELIMINARY NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

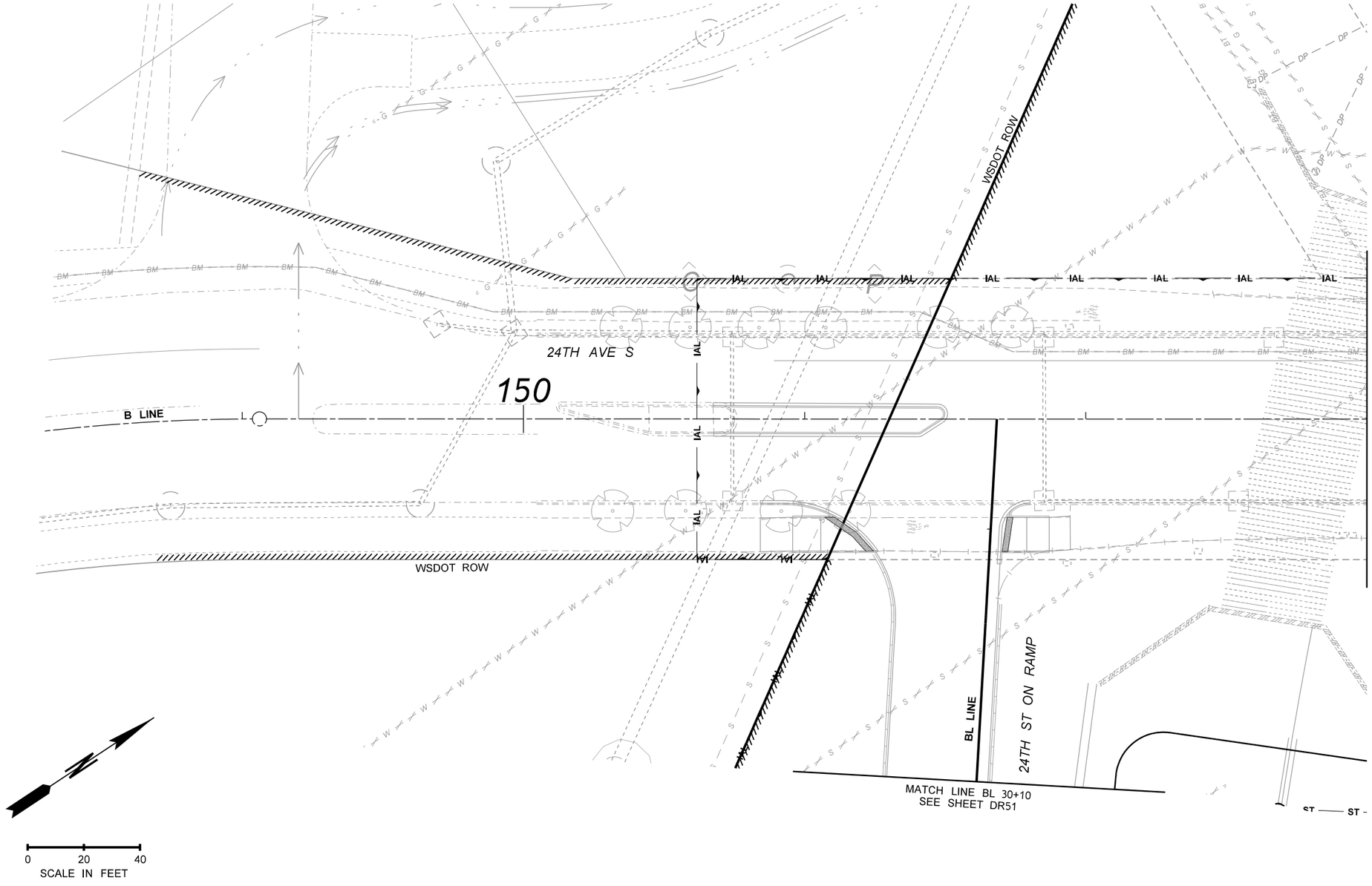
PLAN REF NO DR51

SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



DRAINAGE LEGEND:

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- EXISTING CULVERT
- PROPOSED CULVERT
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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR52.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:39:48 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

SCOTT A. MESIC — STATE OF WASHINGTON — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR52

SHEET
OF
SHEETS

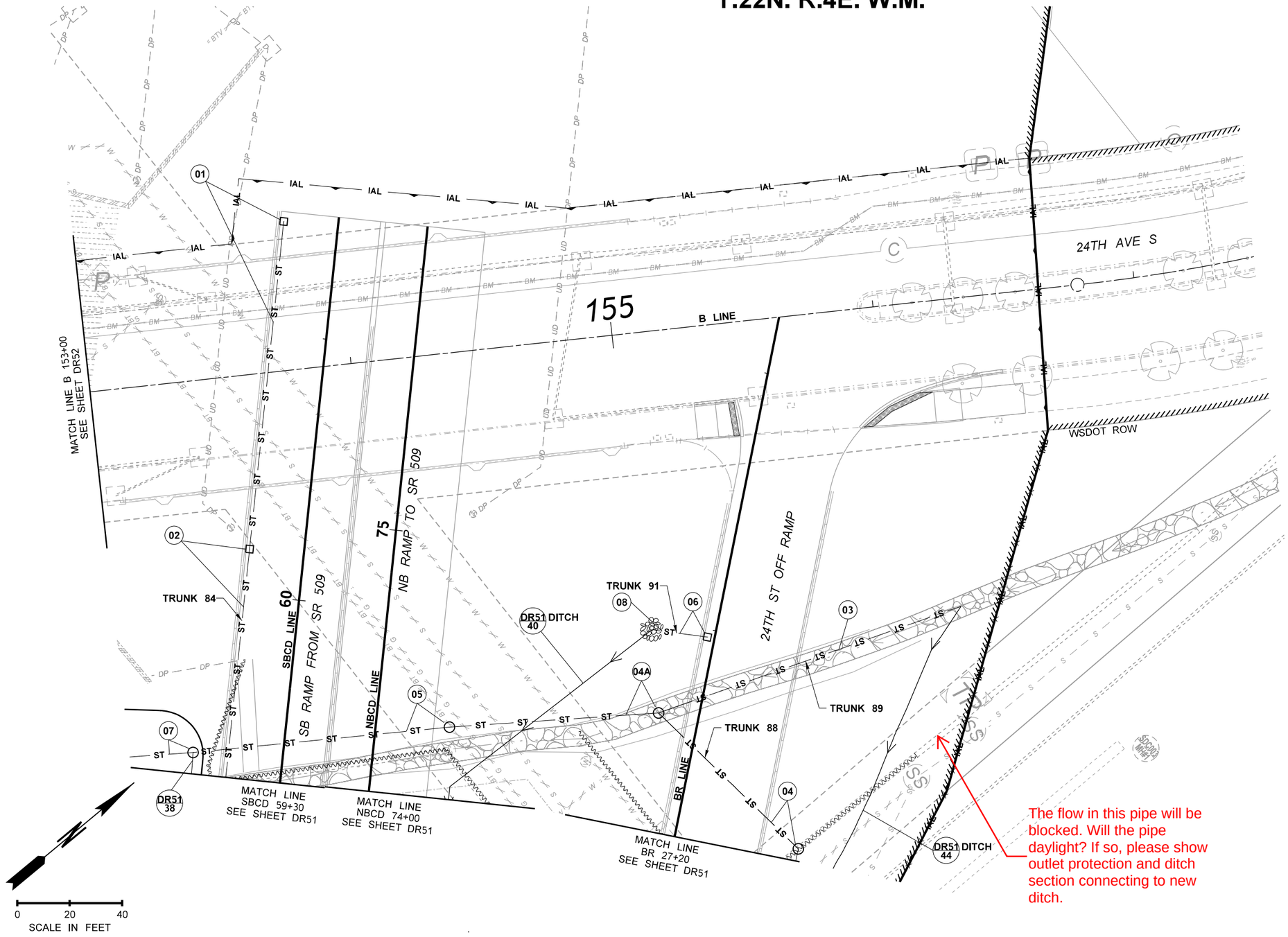
T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 84	DP70
TRUNK 88	DP74
TRUNK 89	DP74
TRUNK 91	DP75

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



DRAINAGE LEGEND:

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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR53.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:40:07 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

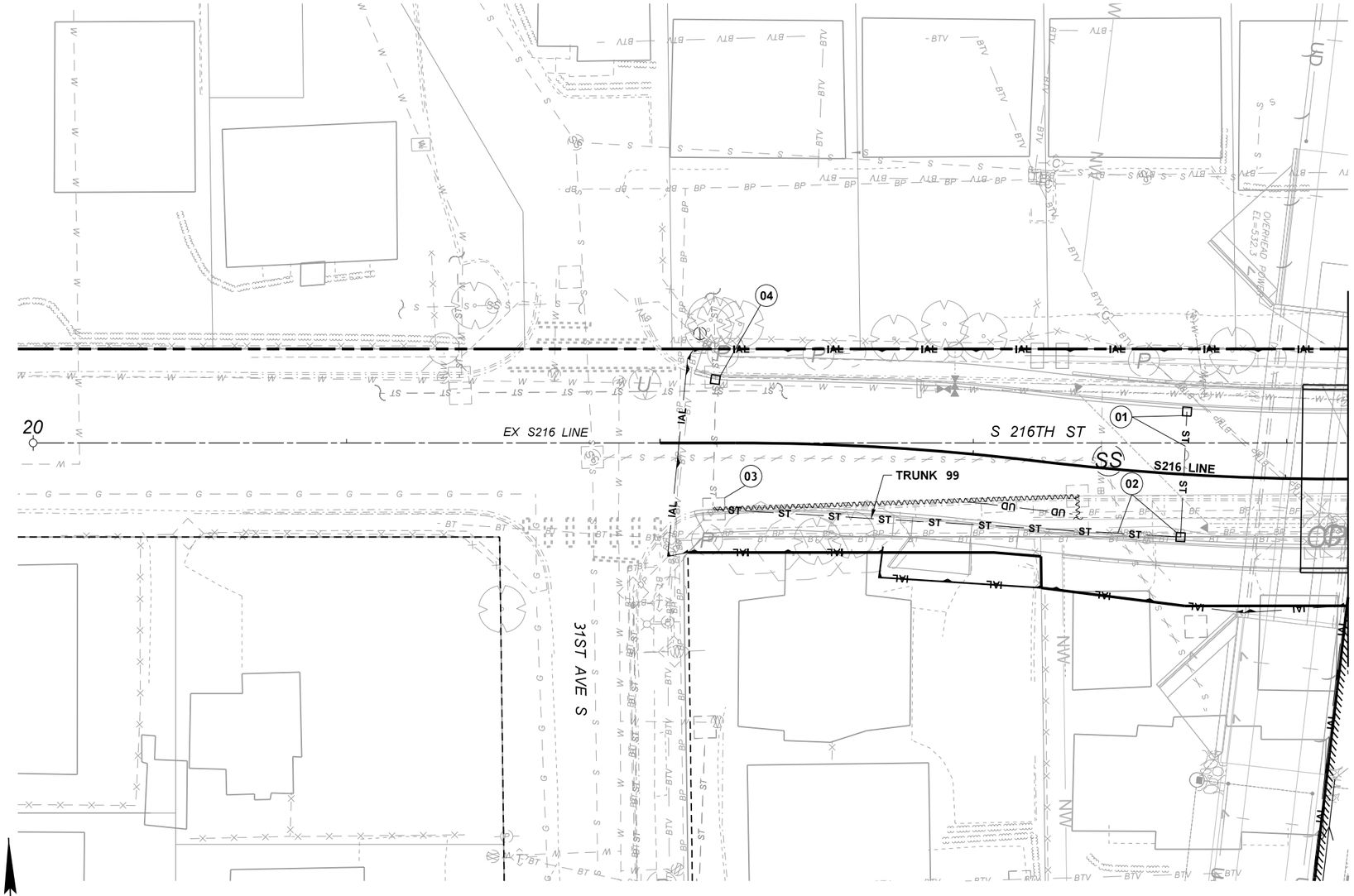
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR53

SHEET
OF
SHEETS

T.22N. R.4E. W.M.



DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 99	DP78

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE LEGEND:

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- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR54.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:40:29 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR54

SHEET
OF
SHEETS

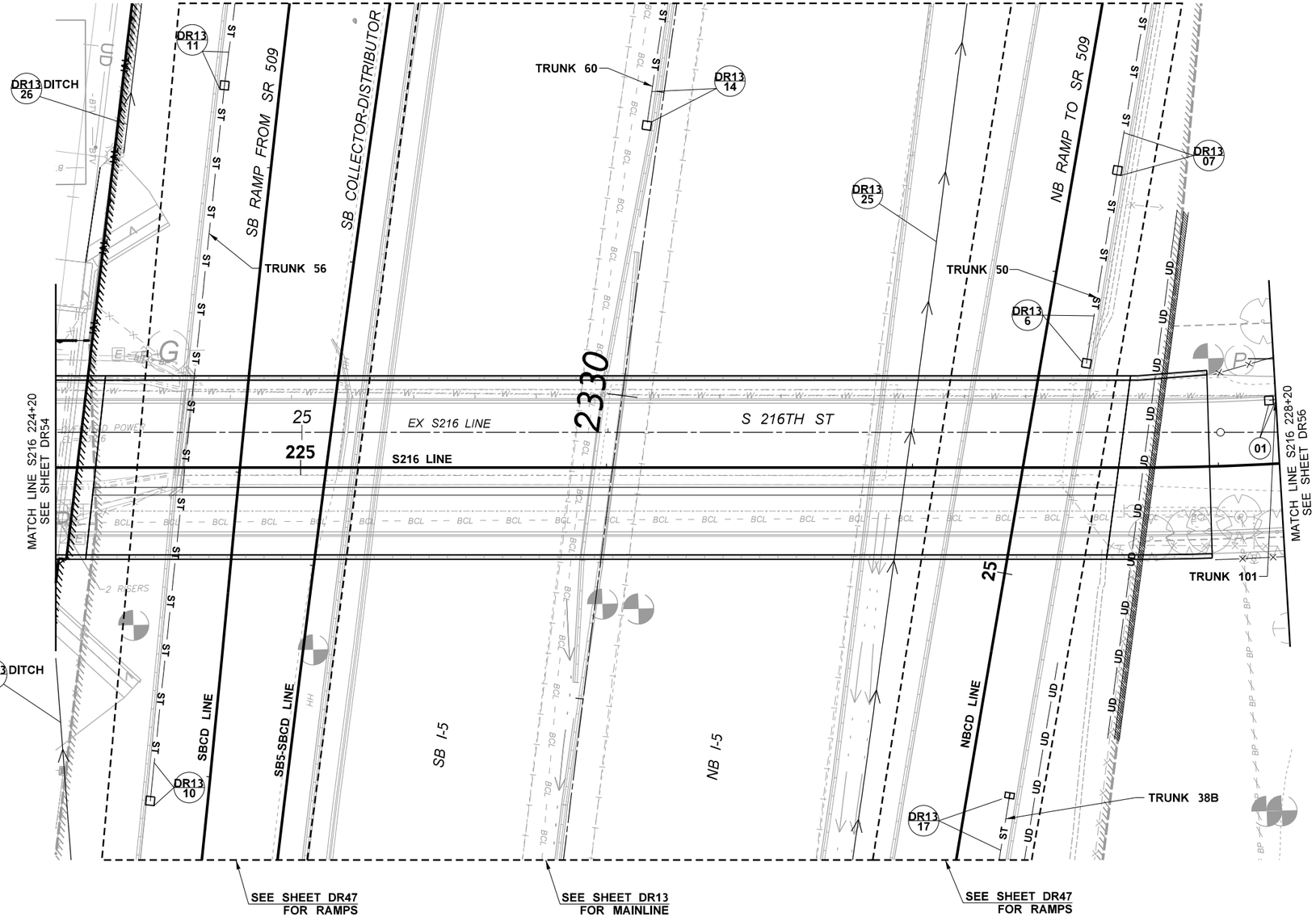
T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 50	DP50
TRUNK 56	DP56
TRUNK 60	DP58
TRUNK 61	DP58
TRUNK 101	DP79



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR55.dgn						
TIME	5:40:48 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX				CONTRACT NO. C9424		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR55

SHEET OF SHEETS

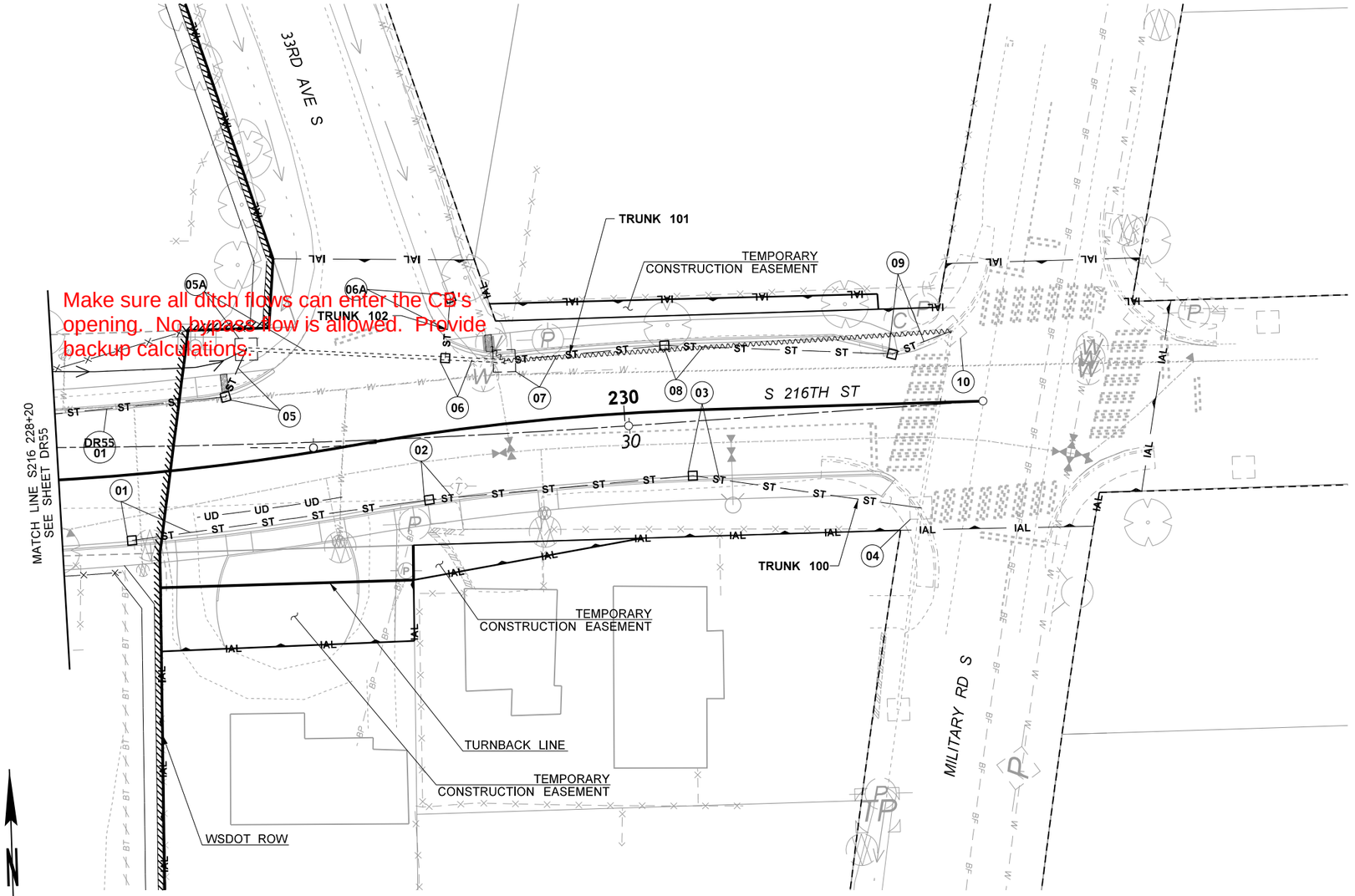
T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 100	DP79
TRUNK 101	DP79
TRUNK 102	DP79



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR56.dgn						
TIME	5:41:05 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO. C9424

LOCATION NO.

FED.AID PROJ.NO.

PRELIMINARY NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR56

SHEET OF SHEETS

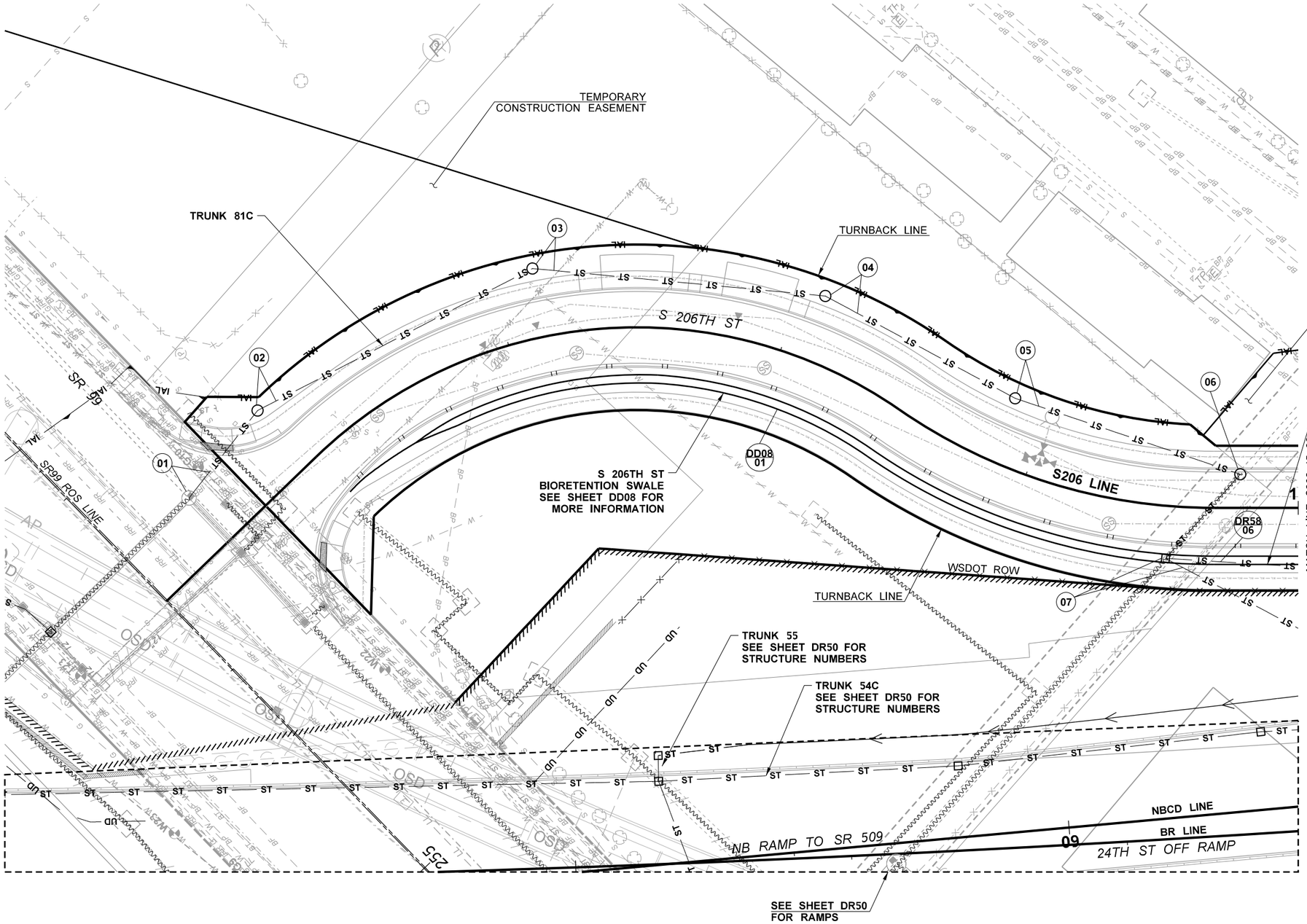
T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 54C	DP54
TRUNK 55	DP55
TRUNK 81C	DP70
TRUNK 93B	DP77

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



0 20 40
SCALE IN FEET

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
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- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR57.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:41:24 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR57

SHEET OF SHEETS

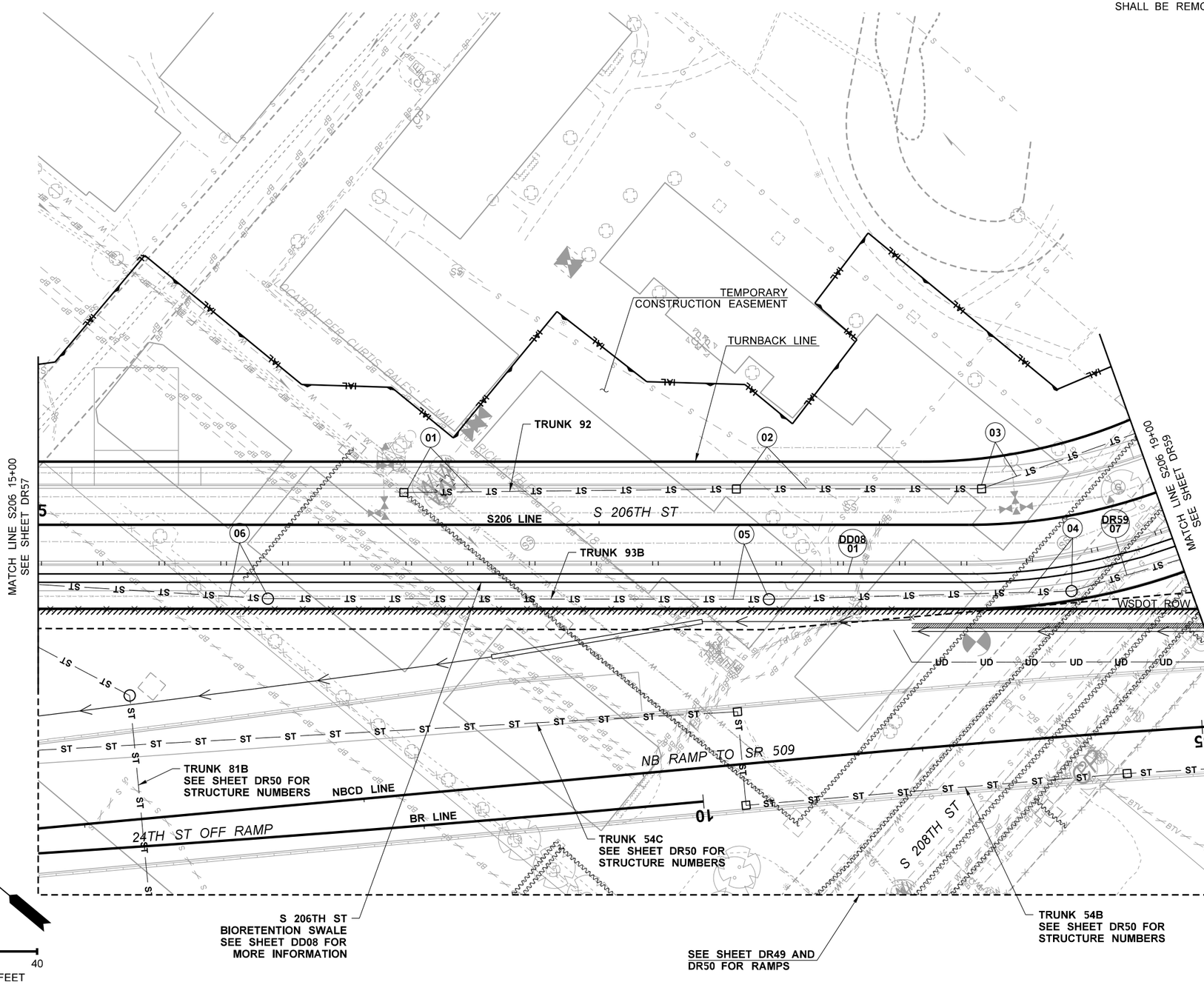
T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 92	DP75
TRUNK 93B	DP77



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR58.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:41:44 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

SCOTT A. MESIC — STATE OF WASHINGTON — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR58

SHEET
OF
SHEETS

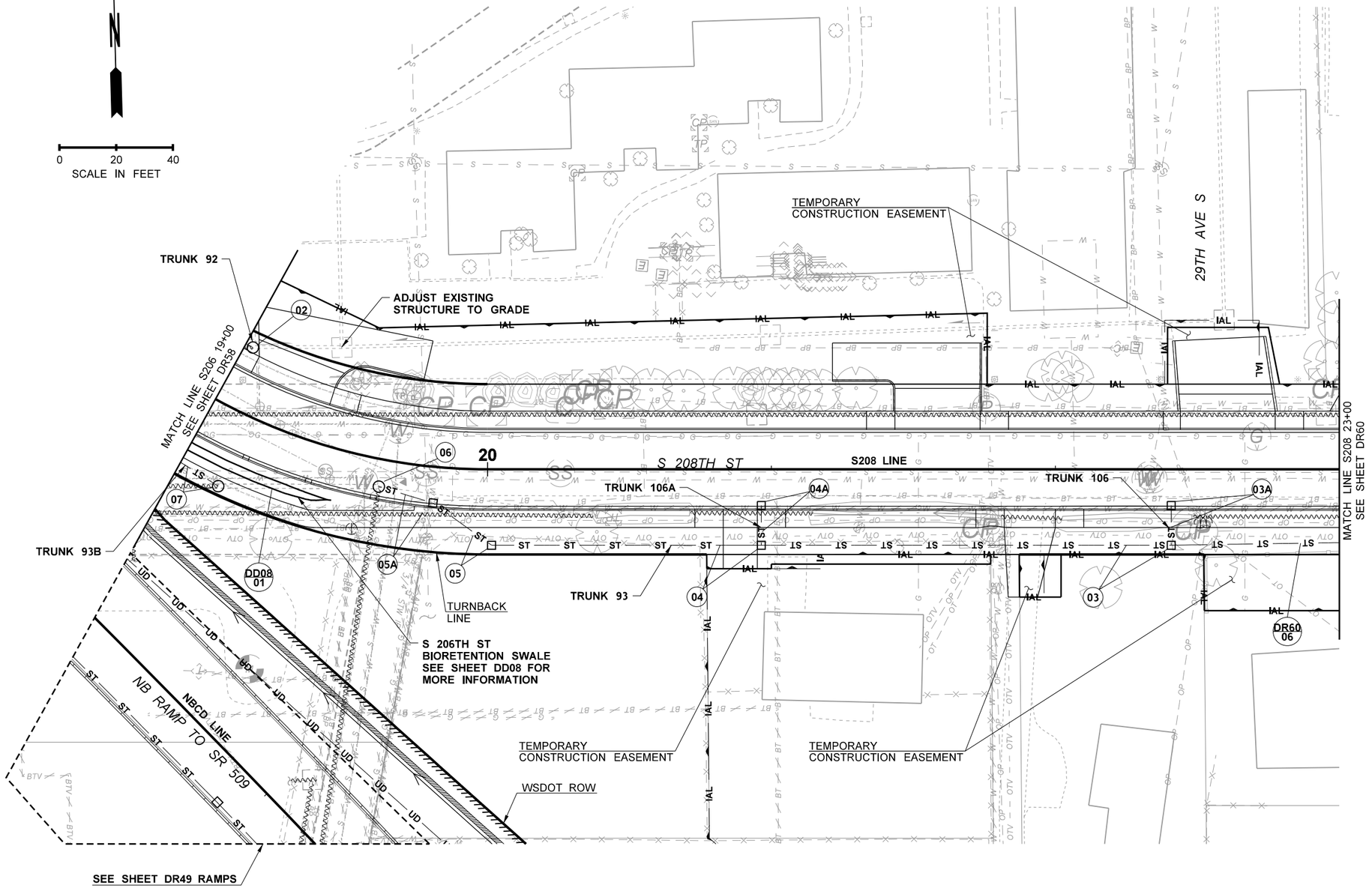
T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 92	DP75
TRUNK 93	DP76
TRUNK 93B	DP77
TRUNK 106	DP83
TRUNK 106A	DP83

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 20 40
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
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- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR59.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:42:03 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR59

SHEET OF SHEETS

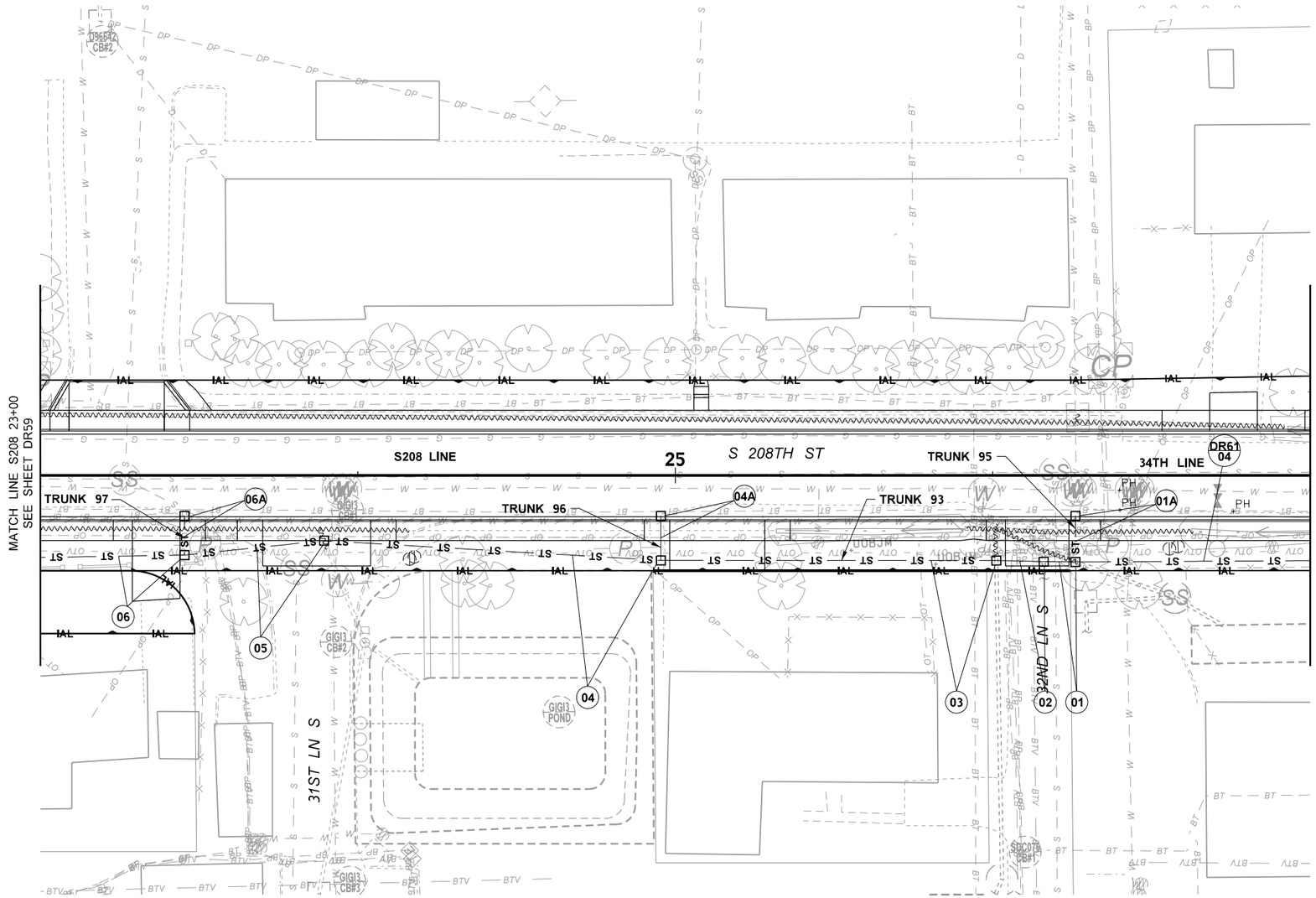
T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY

DESCRIPTION	PROFILE SHEET(S)
TRUNK 93	DP76
TRUNK 95	DP77
TRUNK 96	DP78
TRUNK 97	DP78

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.



0 20 40
SCALE IN FEET

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&h\pw-rlmandgr\d0321956\C9424_PS_DR60.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:42:21 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

SCOTT A. MESIC — STATE OF WASHINGTON — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO
DR60

SHEET
OF
SHEETS

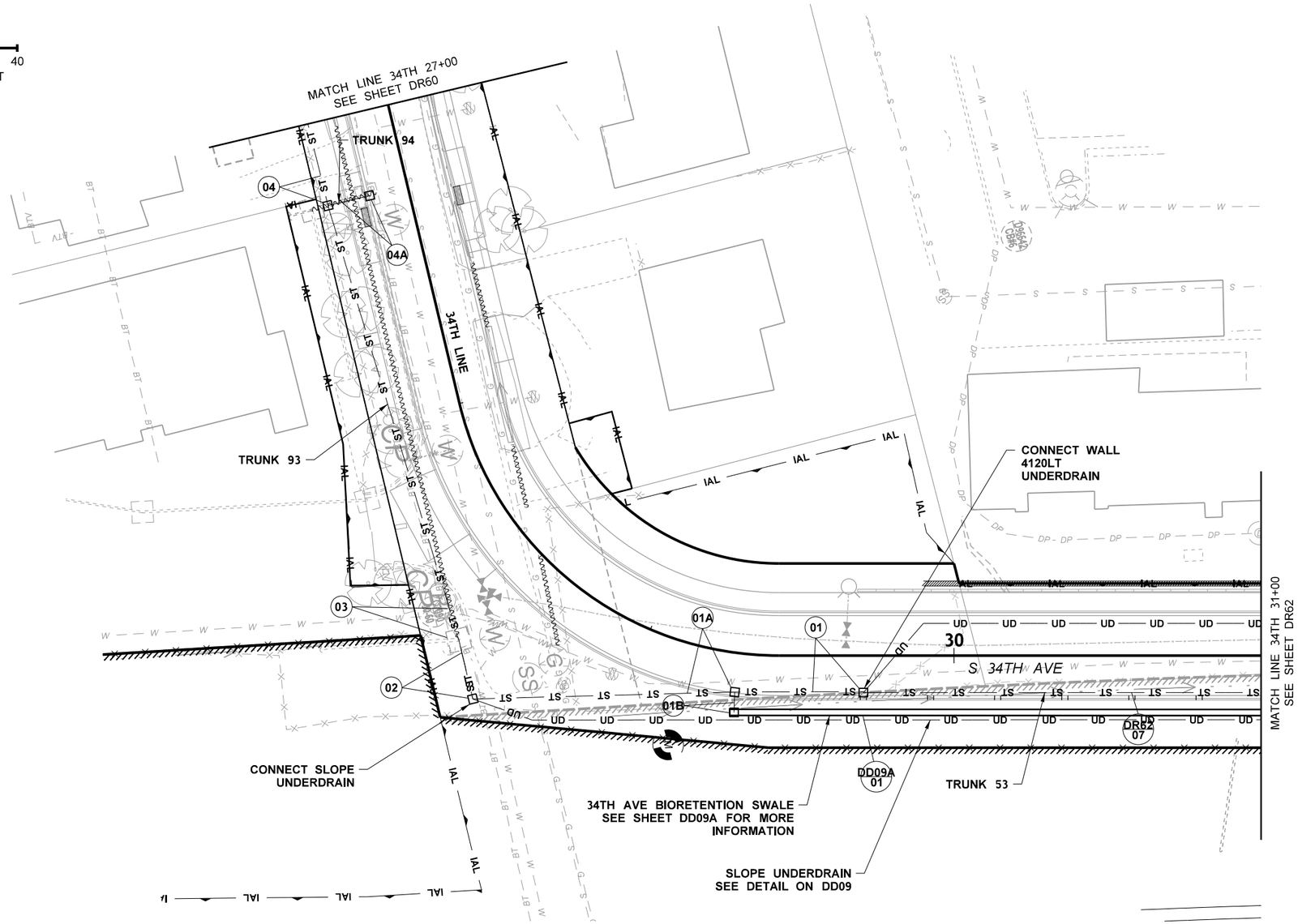
T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 53	DP51
TRUNK 93	DP76
TRUNK 94	DP77
TRUNK 104A	DP81

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 20 40
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR61.dgn				REGION NO. / STATE	FED.AID PROJ.NO.	PLAN REF NO
TIME	5:42:40 PM				10 / WASH		DR61
DATE	12/16/2021				JOB NUMBER		SHEET
PLOTTED BY	GlennR						OF
DESIGNED BY	T. STANLEY						SHEETS
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

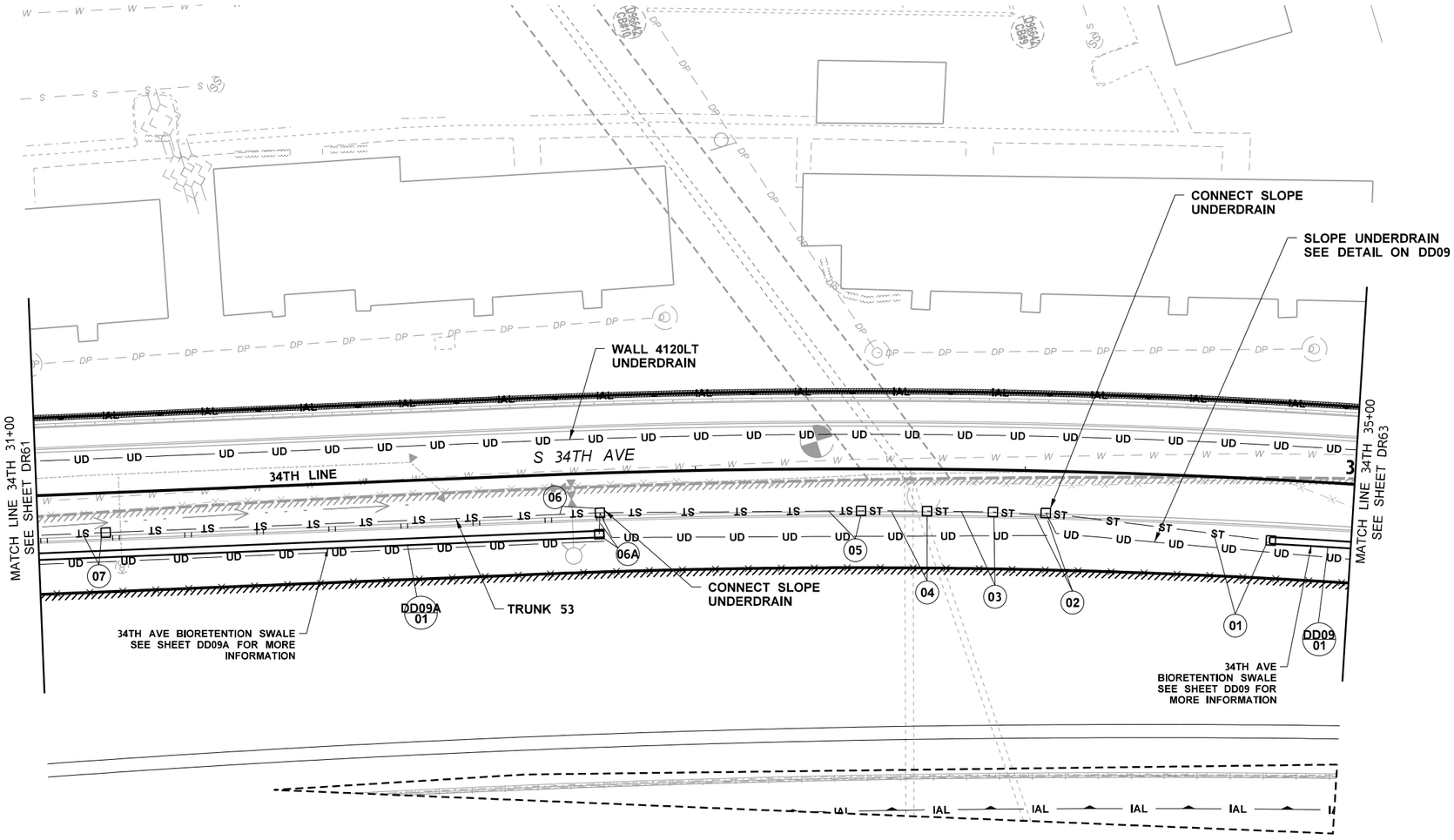
T.22N. R.4E. W.M.

DRAINAGE REFERENCE SUMMARY	
DESCRIPTION	PROFILE SHEET(S)
TRUNK 53	DP51
TRUNK 104	DP81

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 20 40
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
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- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — EXISTING STORM DRAIN
- ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR62.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:43:00 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

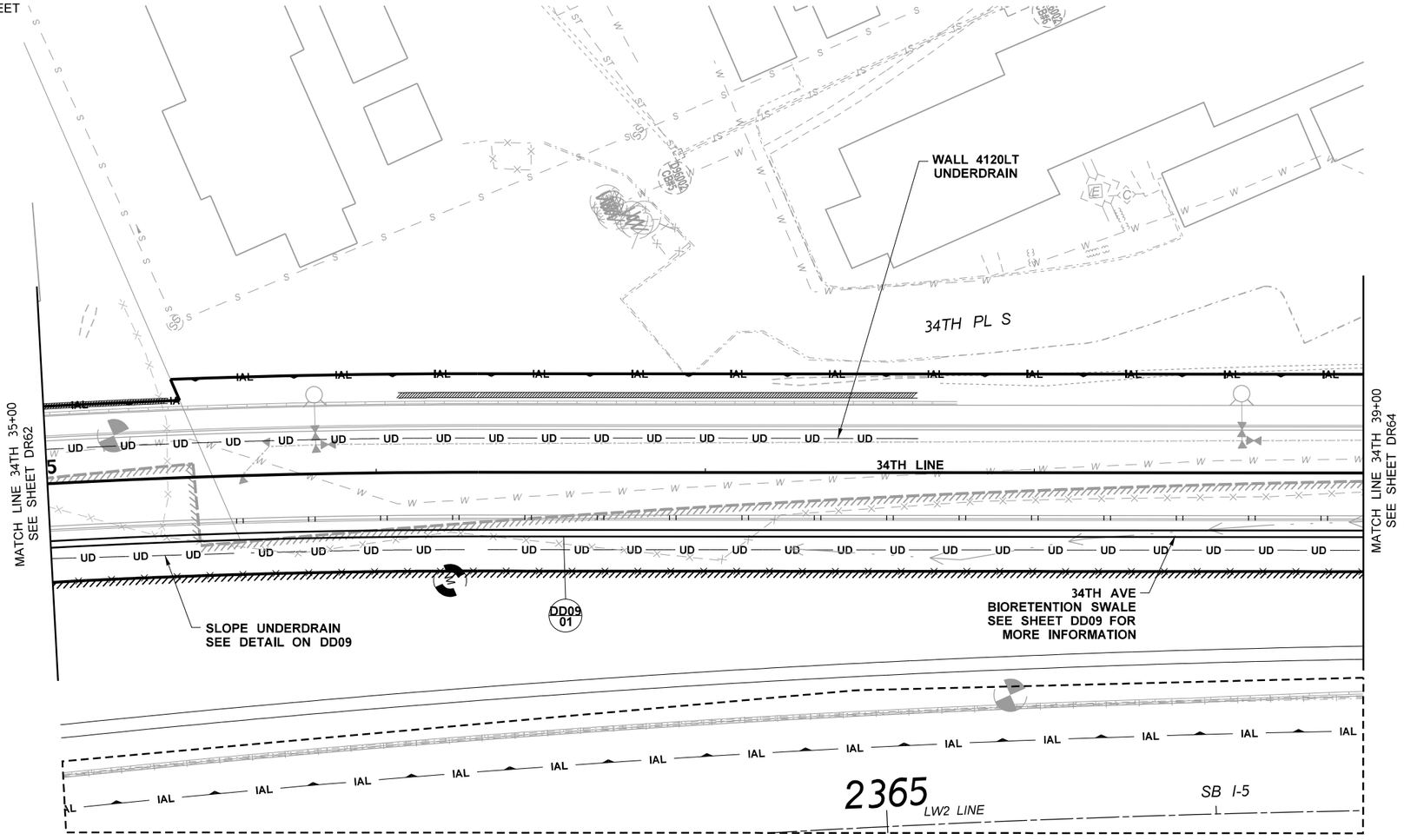
DRAINAGE PLAN

PLAN REF NO
DR62

SHEET
OF
SHEETS

T.22N. R.4E. W.M.

0 20 40
SCALE IN FEET



NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
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- CATCH BASIN/ CONCRETE INLET
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- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PS_DR63.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:43:21 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

SCOTT A. MESIC — STATE OF WASHINGTON — 39371 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

PLAN REF NO DR63

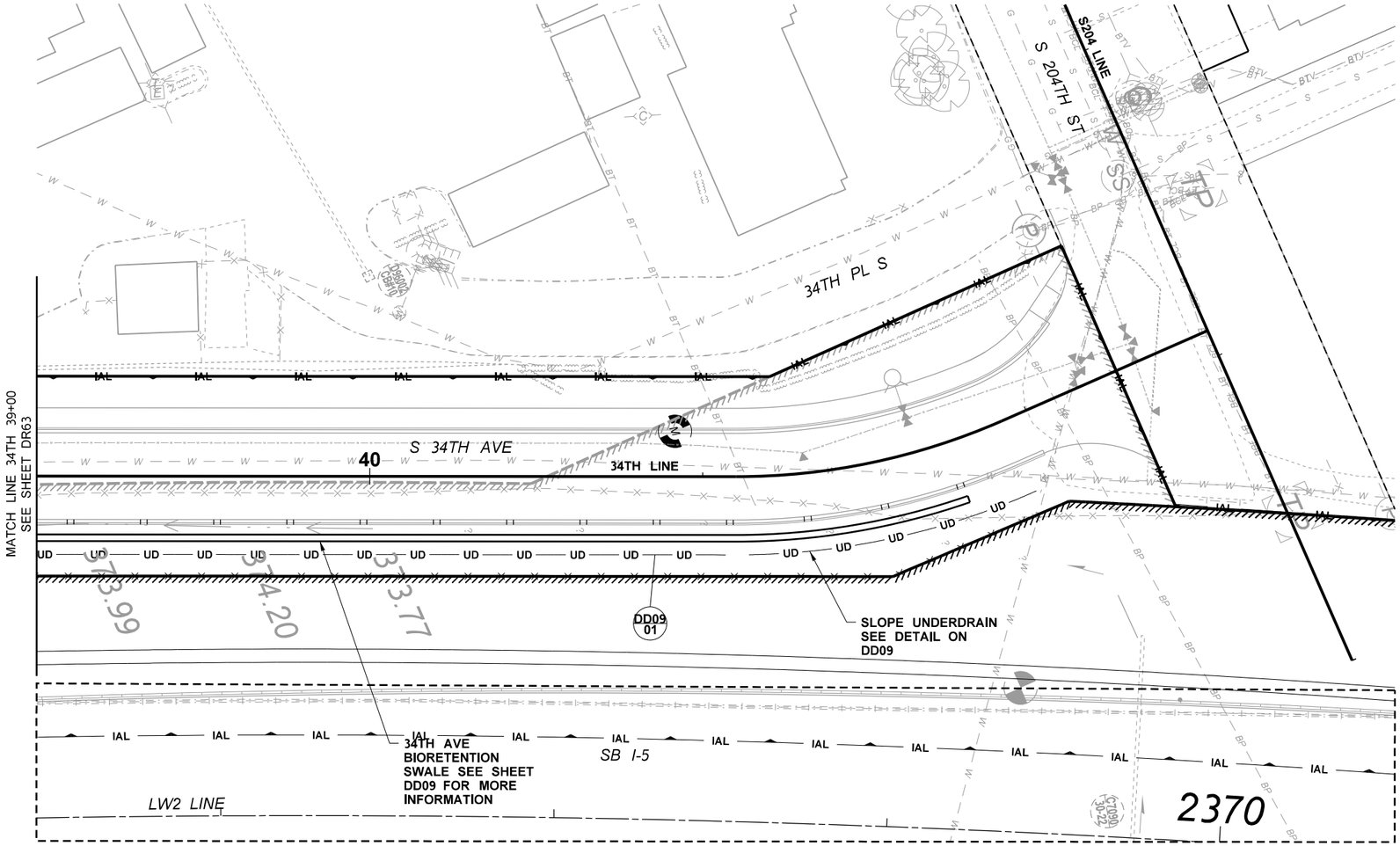
SHEET OF SHEETS

T.22N. R.4E. W.M.

NOTES:

1. EXISTING PIPES WITHIN CITY OF SEATAC ROW SHALL BE REMOVED. ABANDONMENT IS PROHIBITED.

0 20 40
SCALE IN FEET



DRAINAGE LEGEND:

- RIGHT-OF-WAY (R.O.W.) AND LIMITED ACCESS
- EXISTING CITY R.O.W. / EASEMENT
- PROPOSED CITY R.O.W. / EASEMENT
- PROPERTY LINE
- WB — WETLAND BOUNDARY
- IAL — IMPACT AREA LINE
- 100 — CONSTRUCTION ALIGNMENT
- CATCH BASIN/ CONCRETE INLET
- GRATE INLET TYPE 2
- MANHOLE
- DROP INLET
- EXISTING DITCH
- PROPOSED DRAINAGE DITCH
- ST — ST — EXISTING STORM DRAIN
- ST — ST — PROPOSED STORM DRAIN
- EXISTING CULVERT
- PROPOSED CULVERT
- UD — UD — PROPOSED UNDERDRAIN
- EXISTING STORM TO BE REMOVED/ABANDONED
- ROCK INLET/OUTFALL PROTECTION
- PROPOSED BIOFILTRATION SWALE
- MFD — PROPOSED MEDIA FILTER DRAIN
- BR — BR — PROPOSED BIORETENTION
- ROCK UNDERDRAIN/ SPLASH PAD
- ROCK CHECK DAM

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PS_DR64.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:43:40 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	T. STANLEY						
ENTERED BY	N. KLYZHKO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PLAN

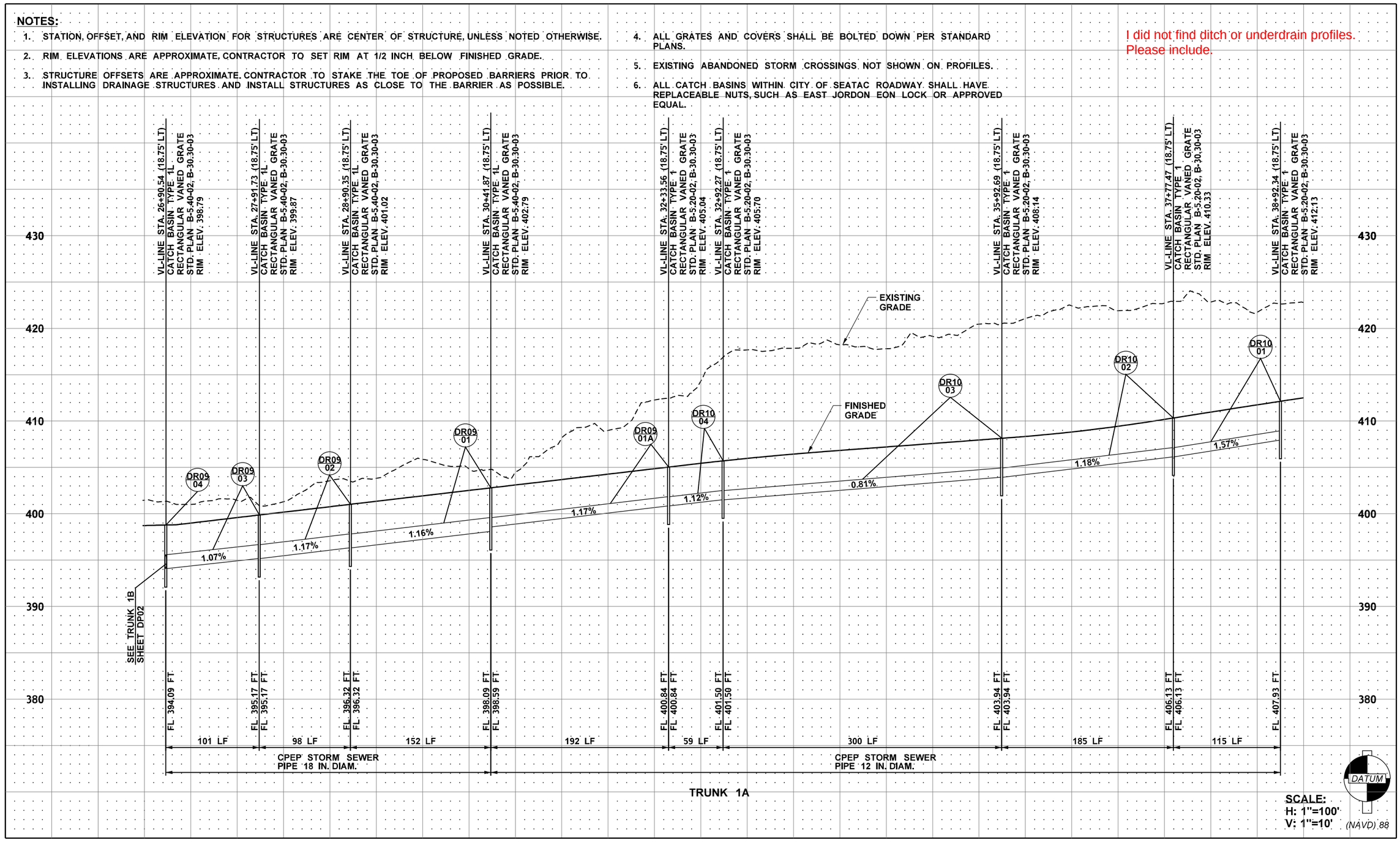
PLAN REF NO
DR64

SHEET
OF
SHEETS

NOTES:

1. STATION, OFFSET, AND RIM ELEVATION FOR STRUCTURES ARE CENTER OF STRUCTURE, UNLESS NOTED OTHERWISE.
2. RIM ELEVATIONS ARE APPROXIMATE, CONTRACTOR TO SET RIM AT 1/2 INCH BELOW FINISHED GRADE.
3. STRUCTURE OFFSETS ARE APPROXIMATE. CONTRACTOR TO STAKE THE TOE OF PROPOSED BARRIERS PRIOR TO INSTALLING DRAINAGE STRUCTURES AND INSTALL STRUCTURES AS CLOSE TO THE BARRIER AS POSSIBLE.
4. ALL GRATES AND COVERS SHALL BE BOLTED DOWN PER STANDARD PLANS.
5. EXISTING ABANDONED STORM CROSSINGS NOT SHOWN ON PROFILES.
6. ALL CATCH BASINS WITHIN CITY OF SEATAC ROADWAY SHALL HAVE REPLACEABLE NUTS, SUCH AS EAST JORDON EON LOCK OR APPROVED EQUAL.

I did not find ditch or underdrain profiles. Please include.



SCALE:
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V: 1"=10'

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TIME	1:30:58 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				CONTRACT NO. C9424		LOCATION NO.
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP01

SHEET OF SHEETS

NOTES:

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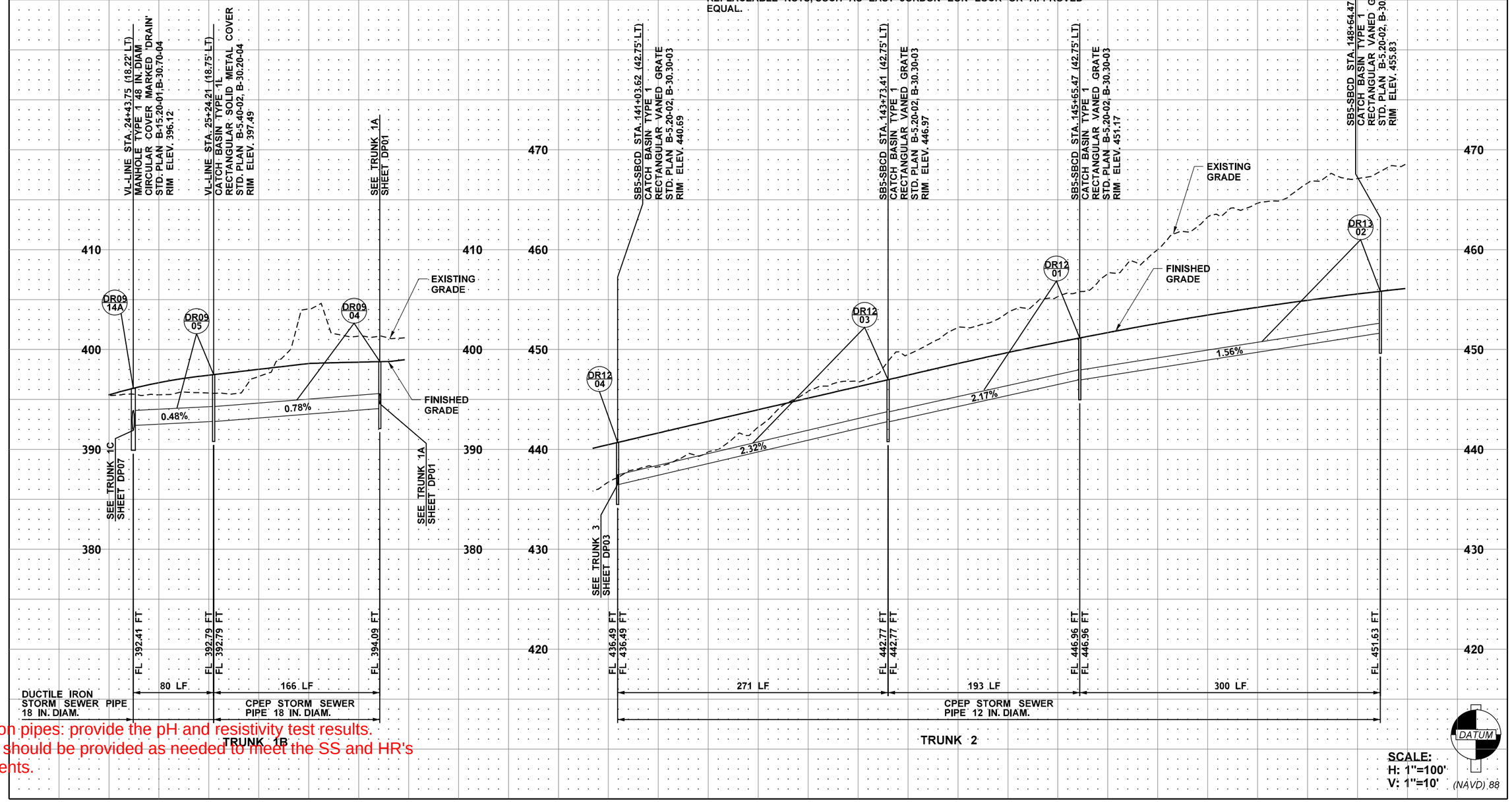

SCALE:
H: 1"=100'
V: 1"=10'

Ductile iron pipes: provide the pH and resistivity test results. Coatings should be provided as needed to meet the SS and HR's requirements.

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP02.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:31:07 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

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I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP02

SHEET OF SHEETS

NOTES:

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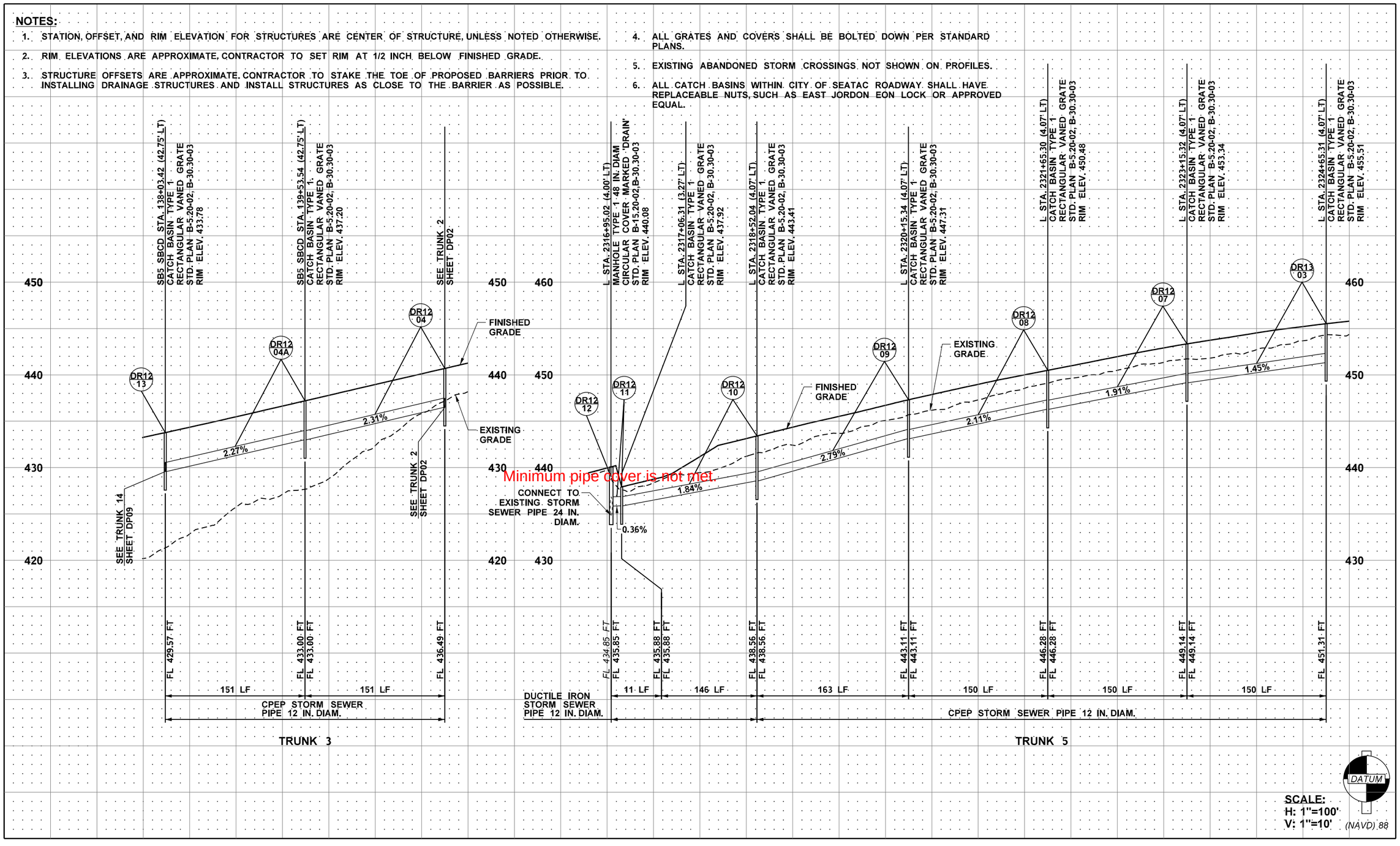

Minimum pipe cover is not met.

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP03.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
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DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SCOTT A. MESIC — STATE OF WASHINGTON — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP03

SHEET OF SHEETS

NOTES:

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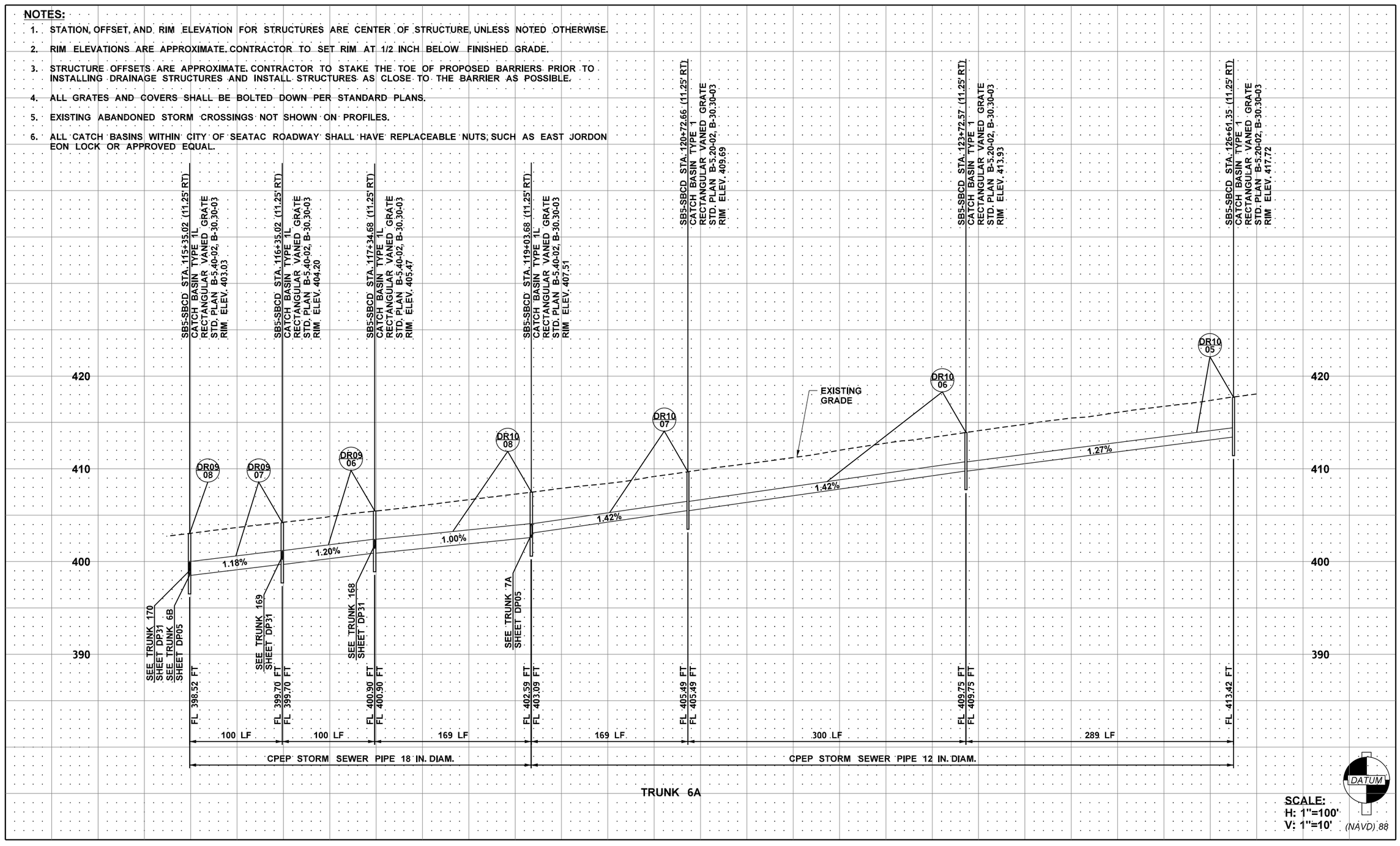

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V: 1"=10'

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP04

SHEET OF SHEETS

NOTES:

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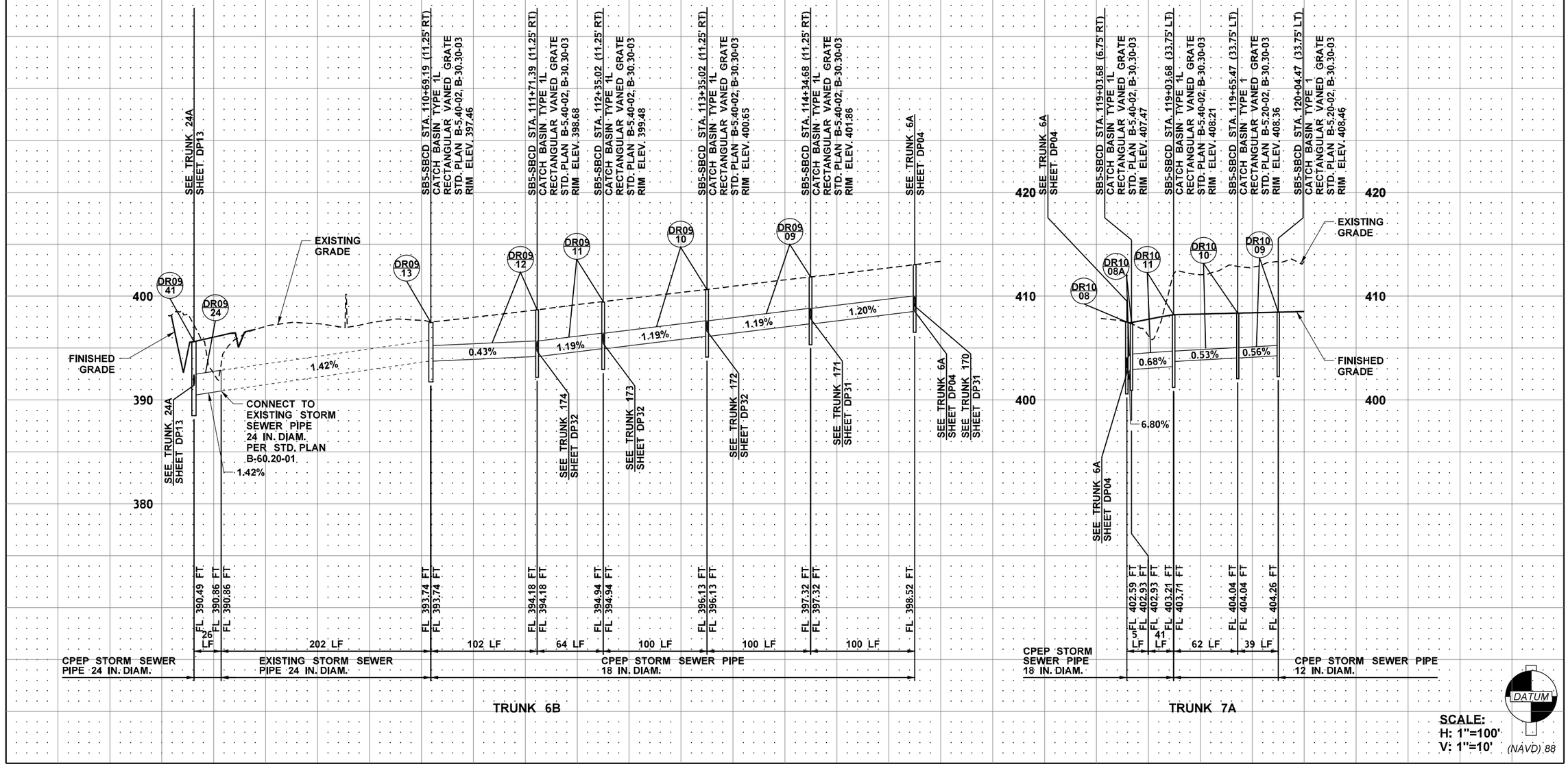

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				CONTRACT NO. C9424		LOCATION NO.
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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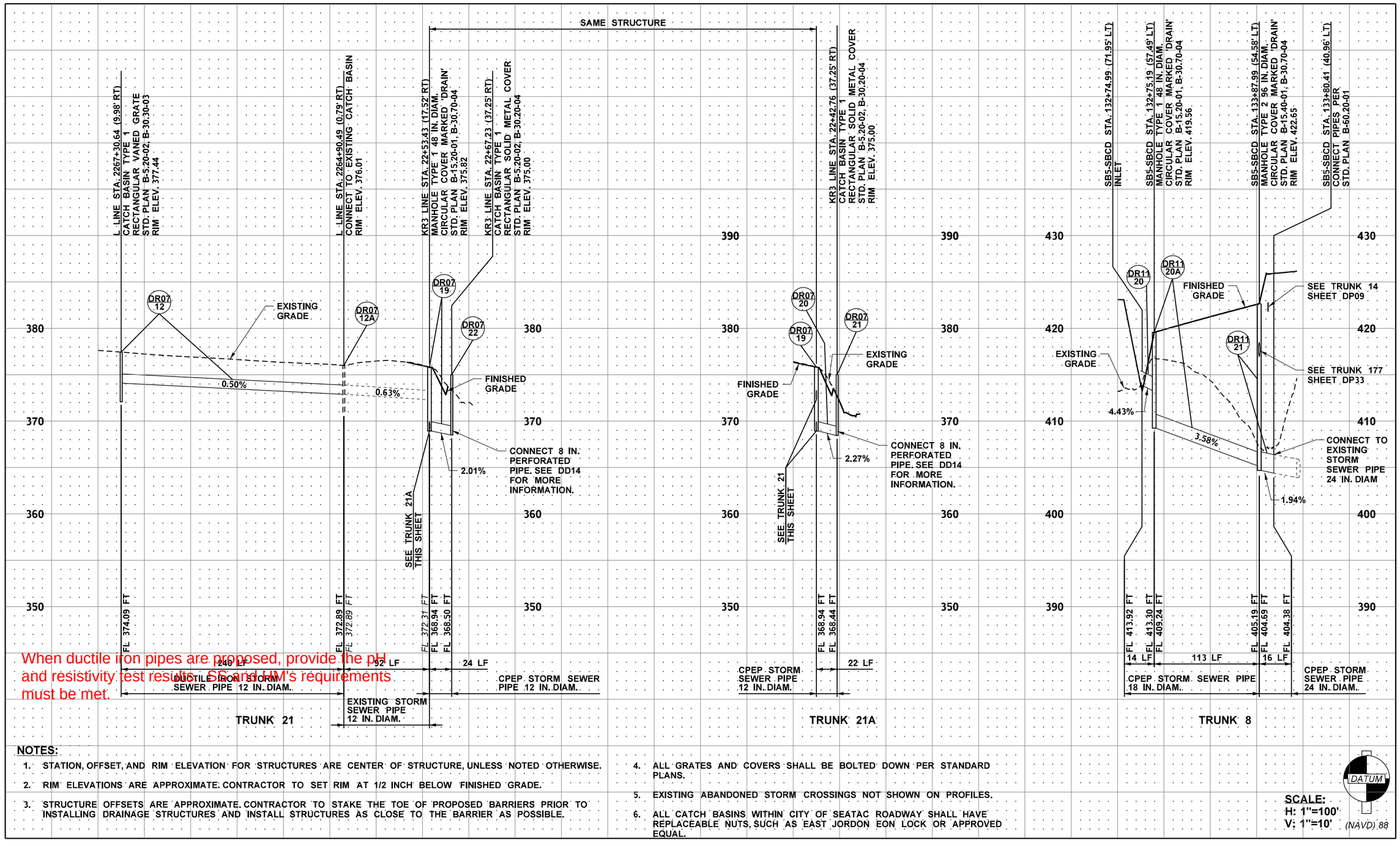
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP05

SHEET OF SHEETS



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SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\jeg_ex-welchs\d0321956\C9424_PR_DP06.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	6:19:31 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	StephanieW						
DESIGNED BY	S, WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP06

SHEET OF SHEETS

NOTES:

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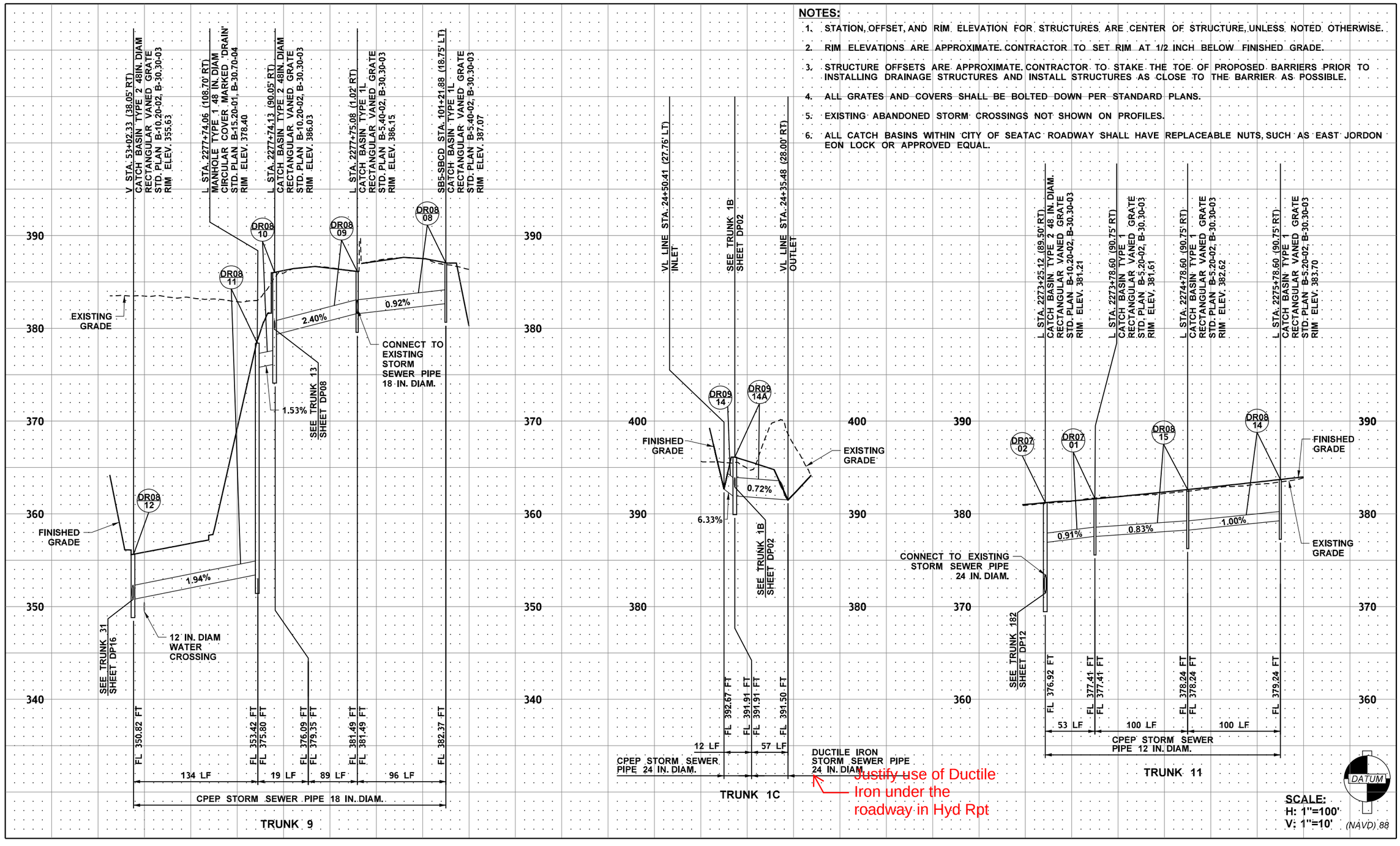

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DATE	12/16/2021						
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO. C9424

FED.AID PROJ.NO.

LOCATION NO.

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP07

SHEET OF SHEETS

NOTES:

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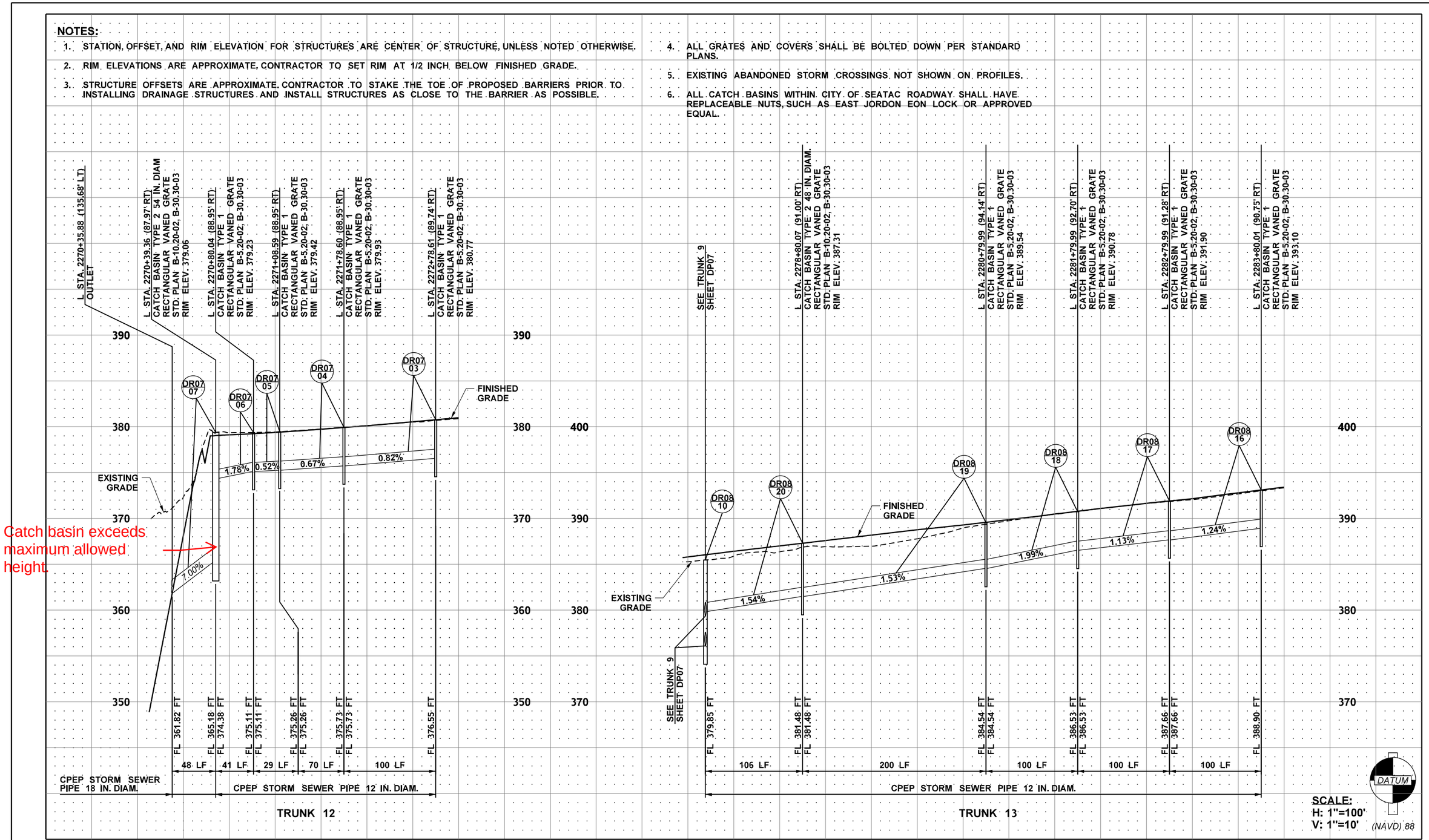

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TIME	1:32:10 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX				CONTRACT NO. C9424		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP08

SHEET OF SHEETS

NOTES:

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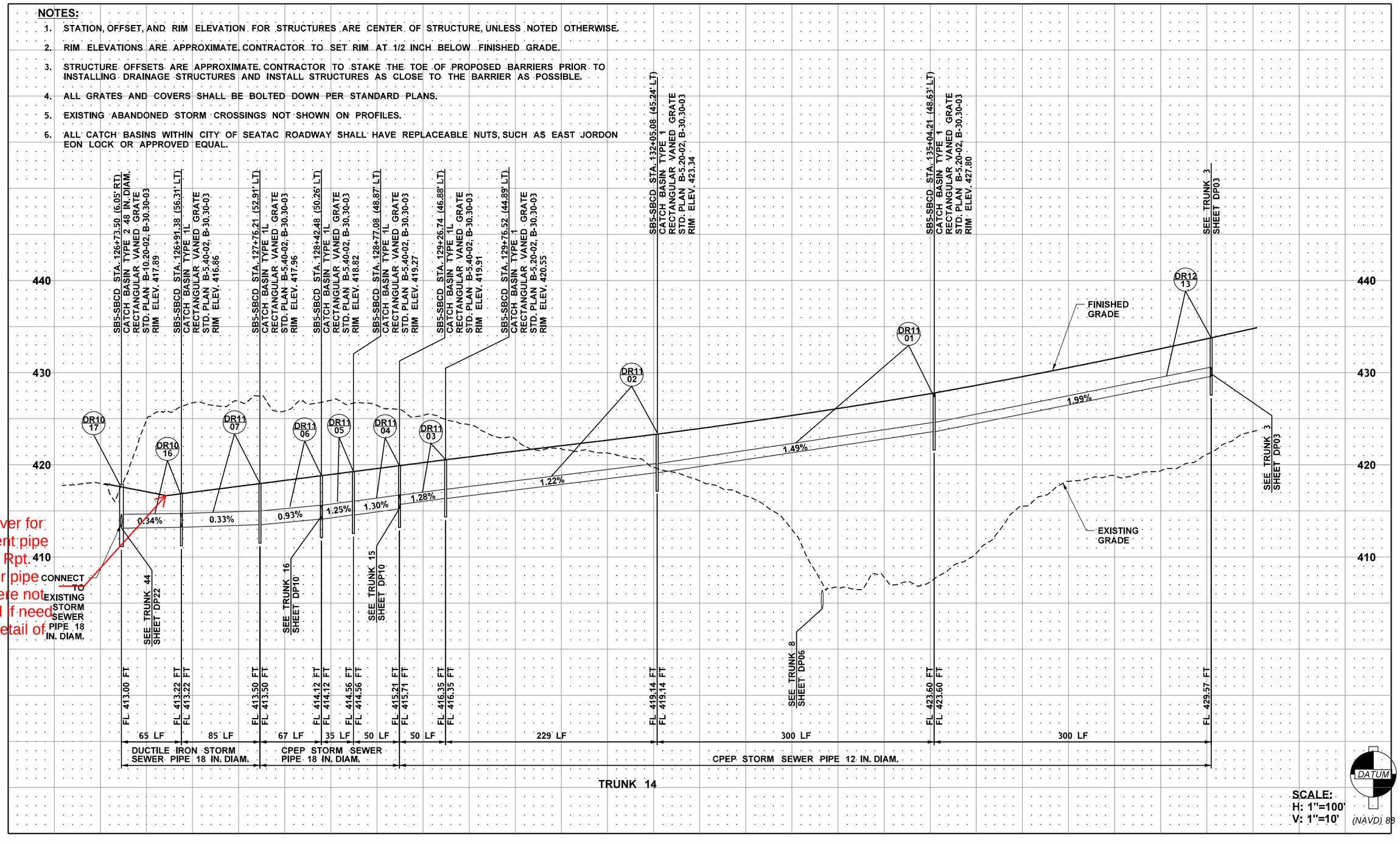

Justify pipe cover for this replacement pipe section in Hyd Rpt. Note why other pipe alternatives were not called out, and if need be provide a detail of pavement

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP09.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:32:19 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP09

SHEET OF SHEETS

NOTES:

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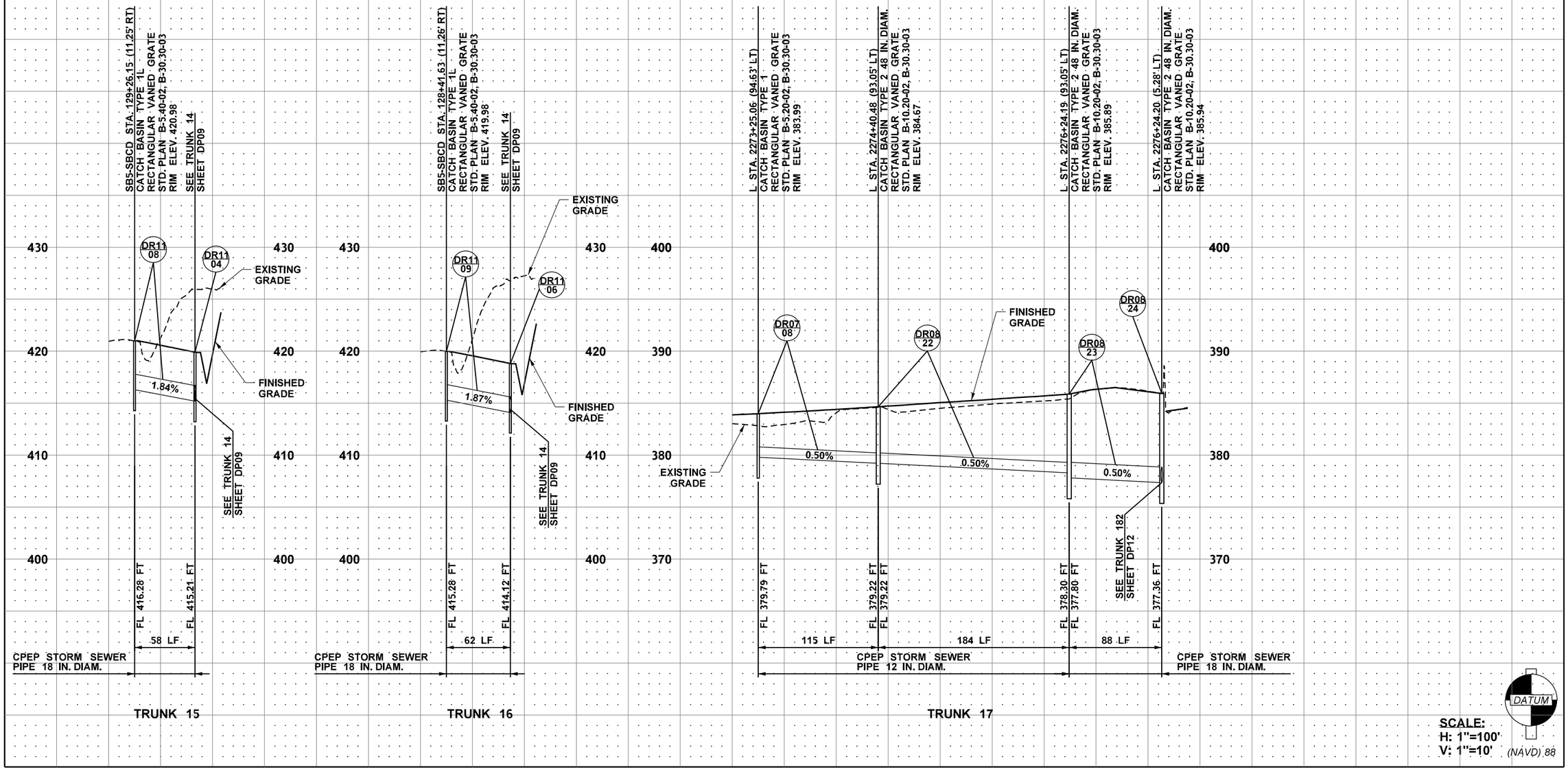

SCALE:
H: 1"=100'
V: 1"=10'

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TIME	1:32:29 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
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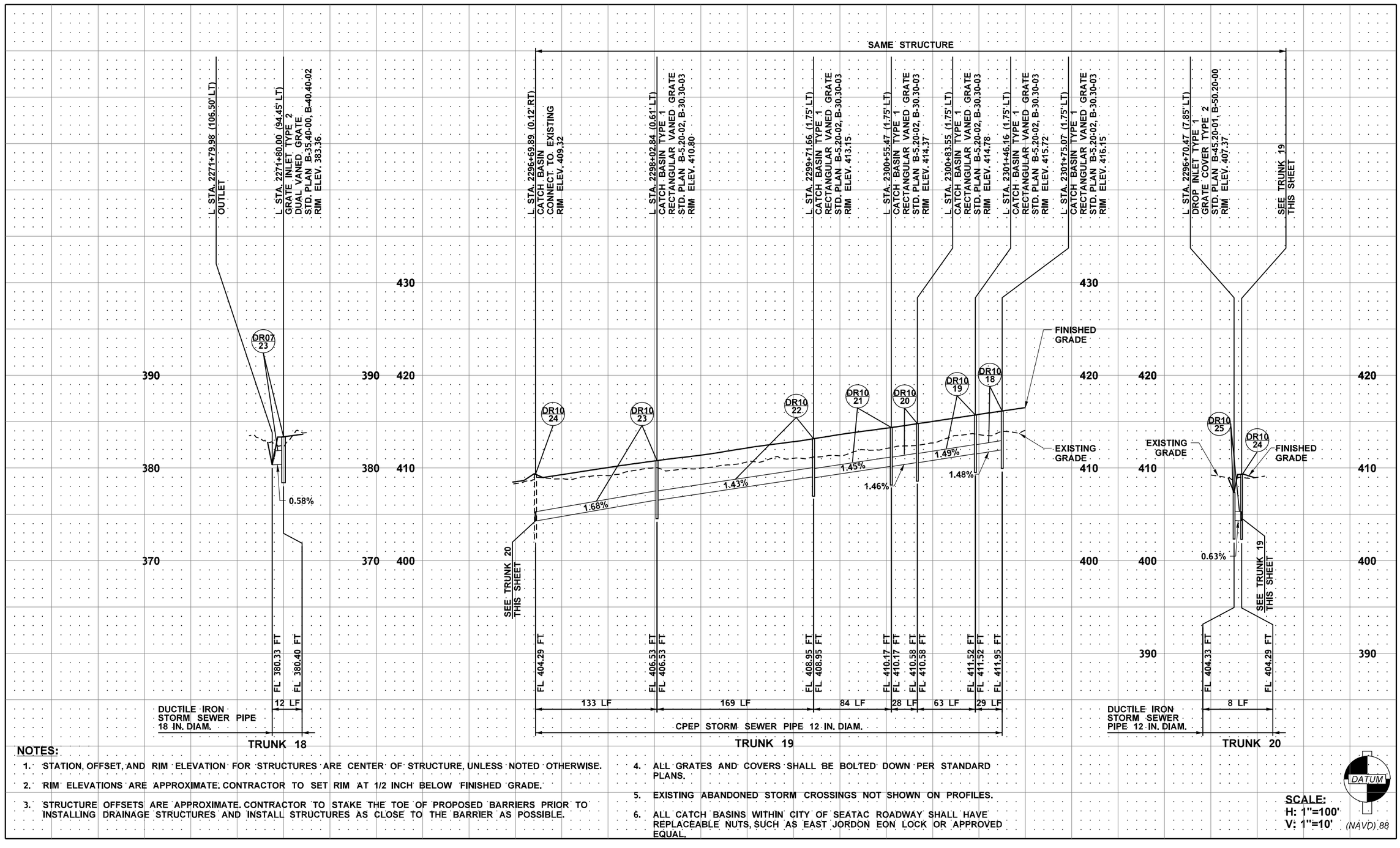
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP10

SHEET OF SHEETS



NOTES:

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SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP11.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:32:40 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP11

SHEET OF SHEETS

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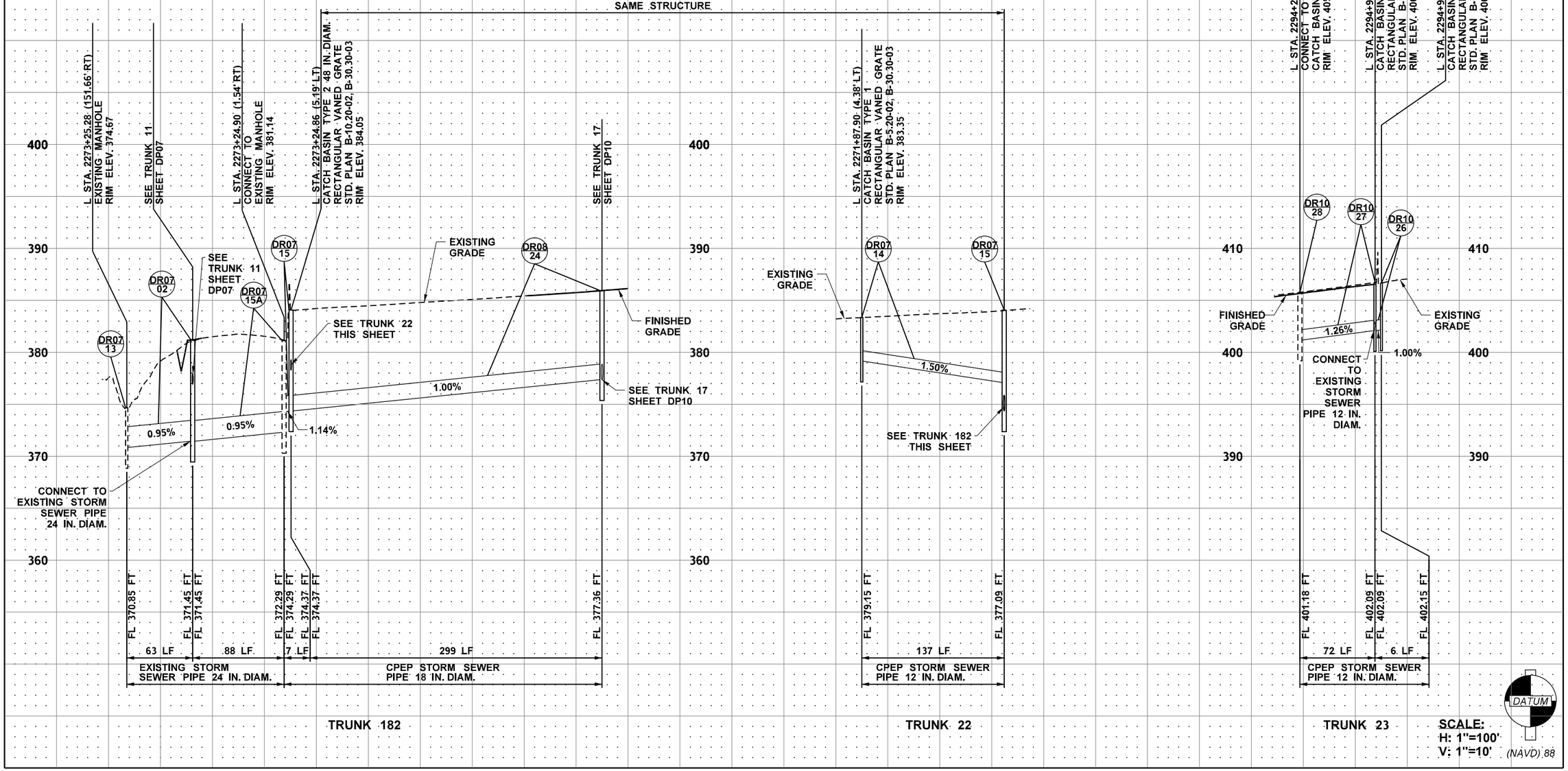

SCALE:
H: 1"=100'
V: 1"=10'

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DATE	12/16/2021						
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO.
C9424

FED.AID PROJ.NO.

LOCATION NO.

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.
DP12

SHEET
OF
SHEETS

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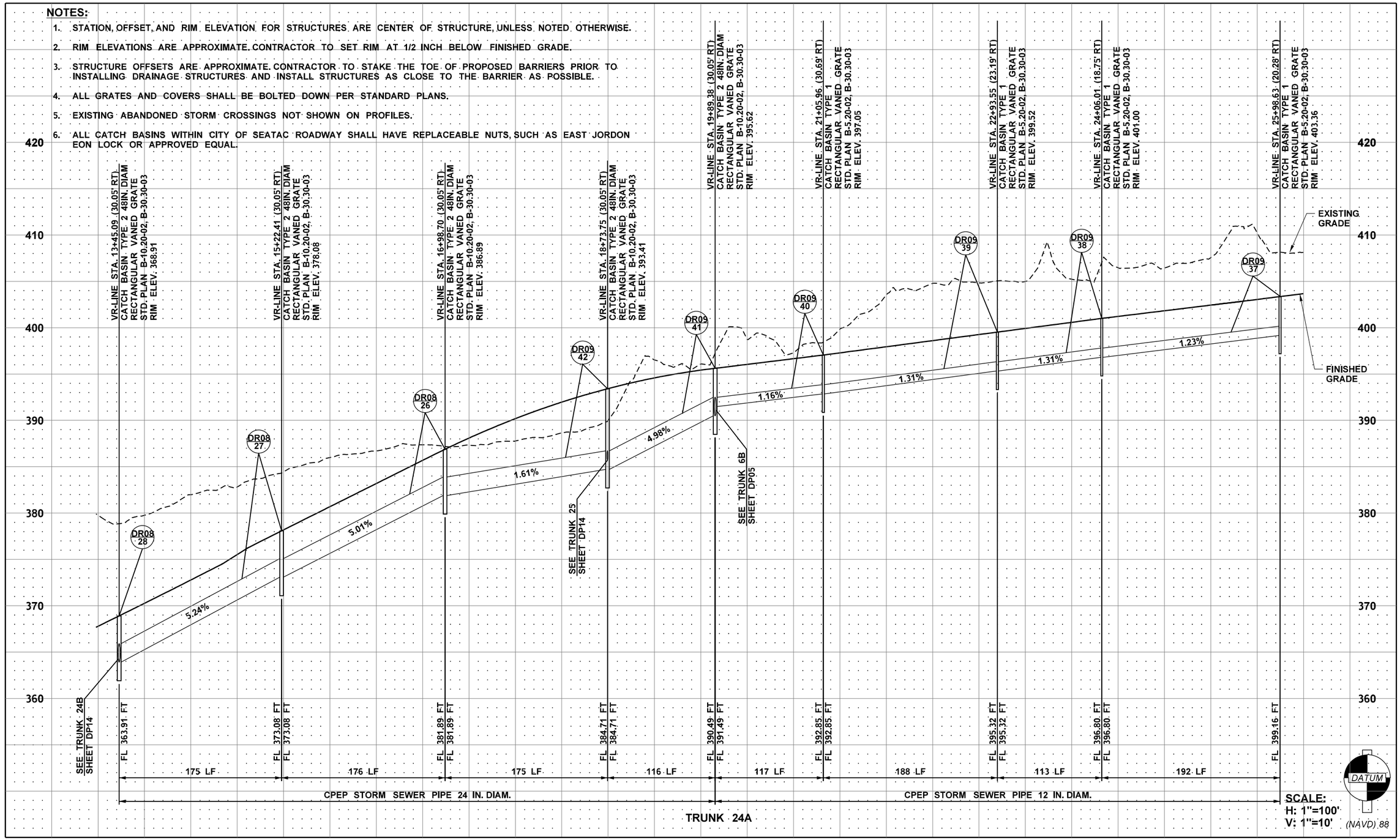

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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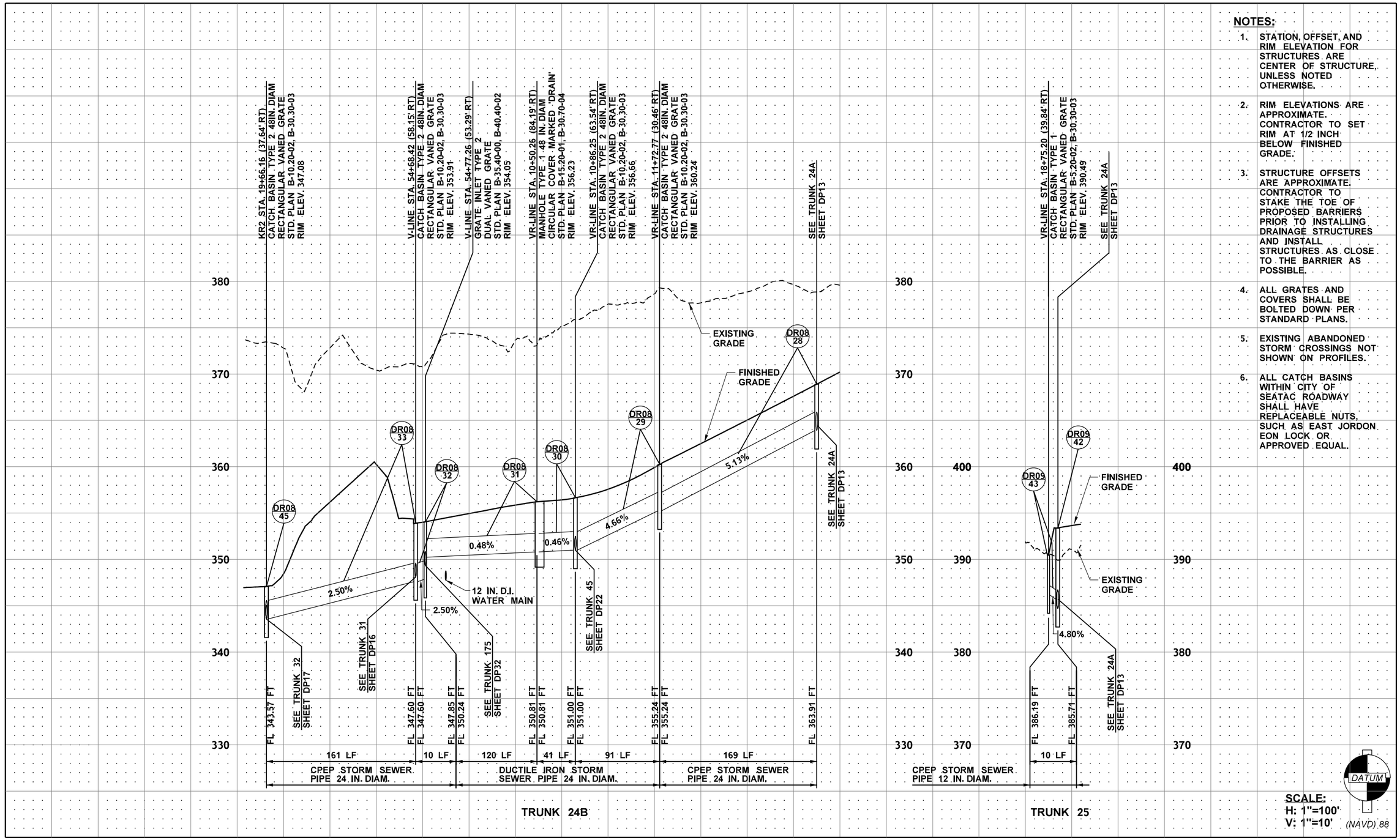
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP13

SHEET OF SHEETS



TRUNK 24B

TRUNK 25

SCALE:
H: 1"=100'
V: 1"=10'

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DATE	12/16/2021					
PLOTTED BY	GlennR					
DESIGNED BY	S. WELCH					
ENTERED BY	A. MAILLOUX					
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21			
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21			
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY		

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO. C9424

FED.AID PROJ.NO.

LOCATION NO.

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NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP14

SHEET OF SHEETS

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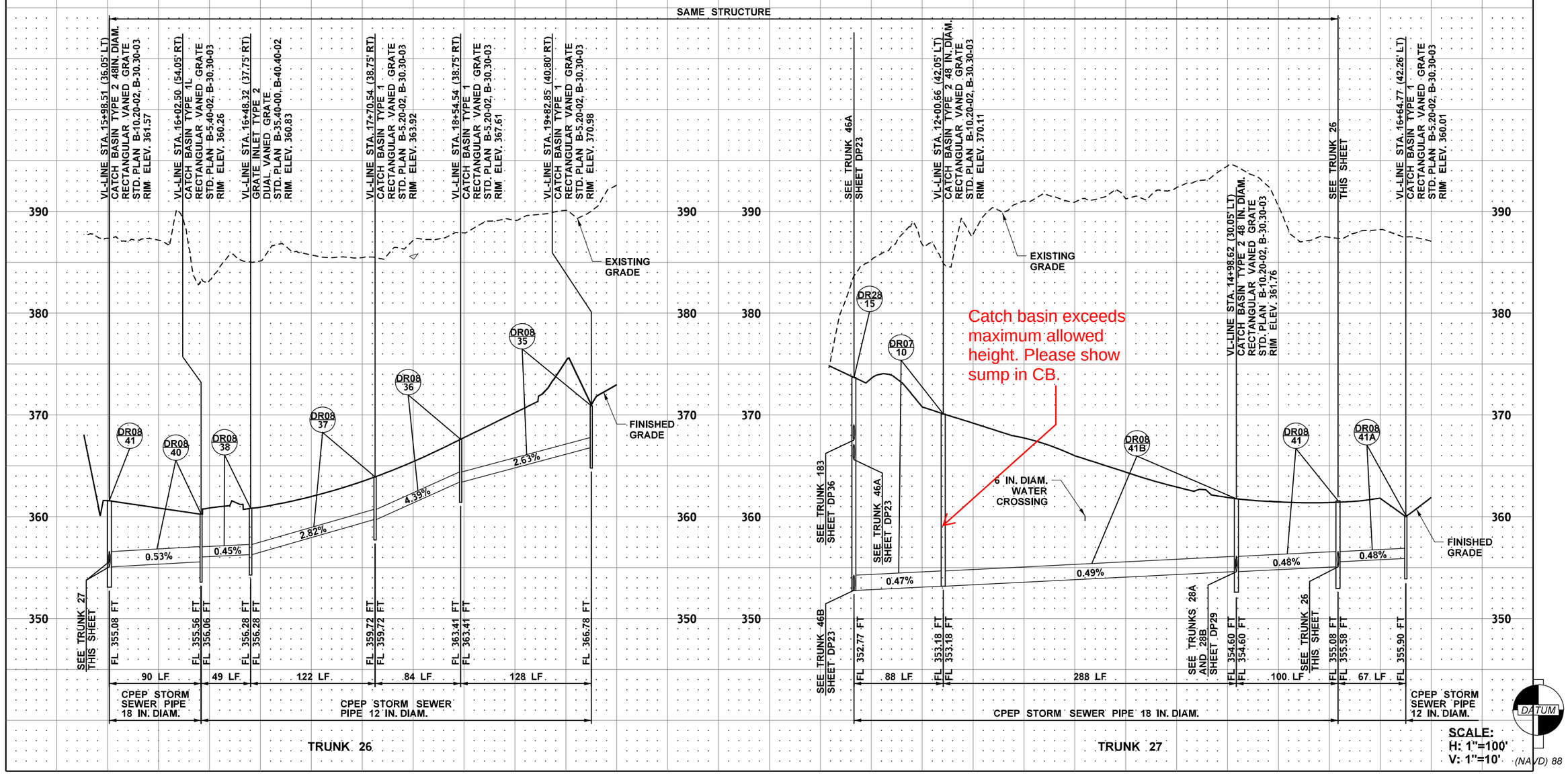

SCALE:
H: 1"=100'
V: 1"=10'

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP15

SHEET OF SHEETS

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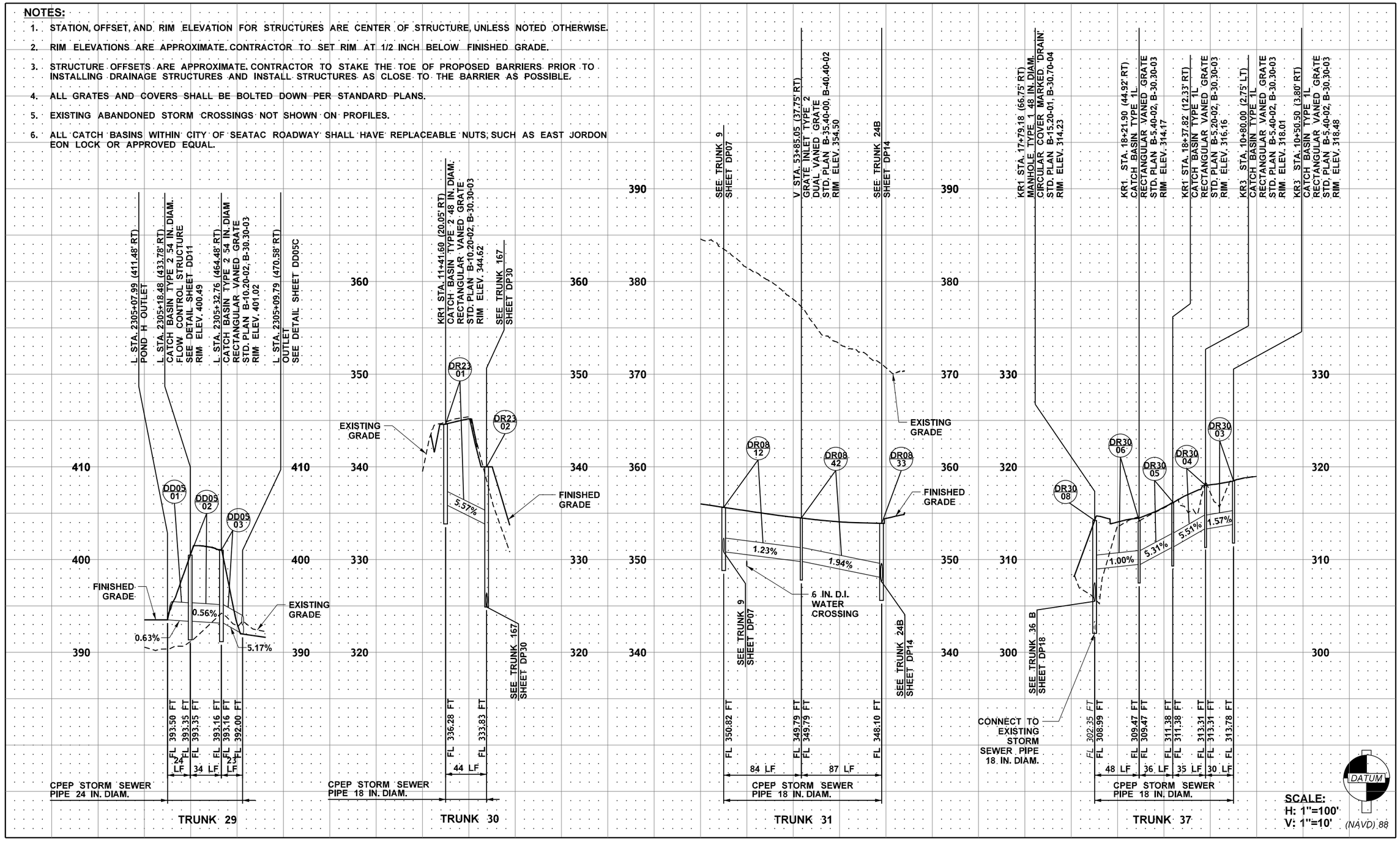

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				CONTRACT NO.		LOCATION NO.
ENTERED BY	A. MAILLOUX				C9424		
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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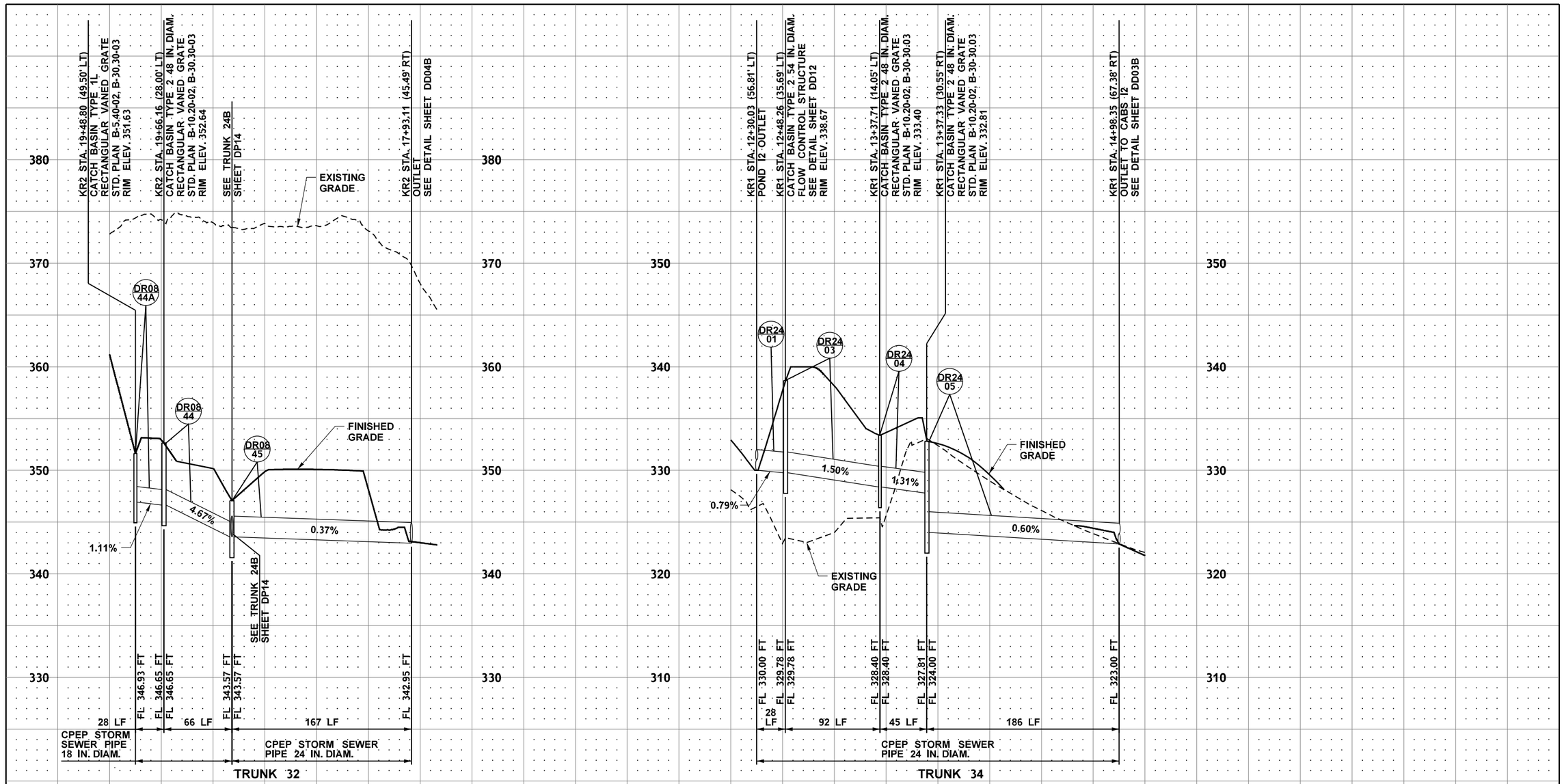
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP16

SHEET OF SHEETS



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DATUM

SCALE:
H: 1"=100'
V: 1"=10'
(NAVD) 88

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TIME	1:33:45 PM						
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DESIGNED BY	S. WELCH						
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CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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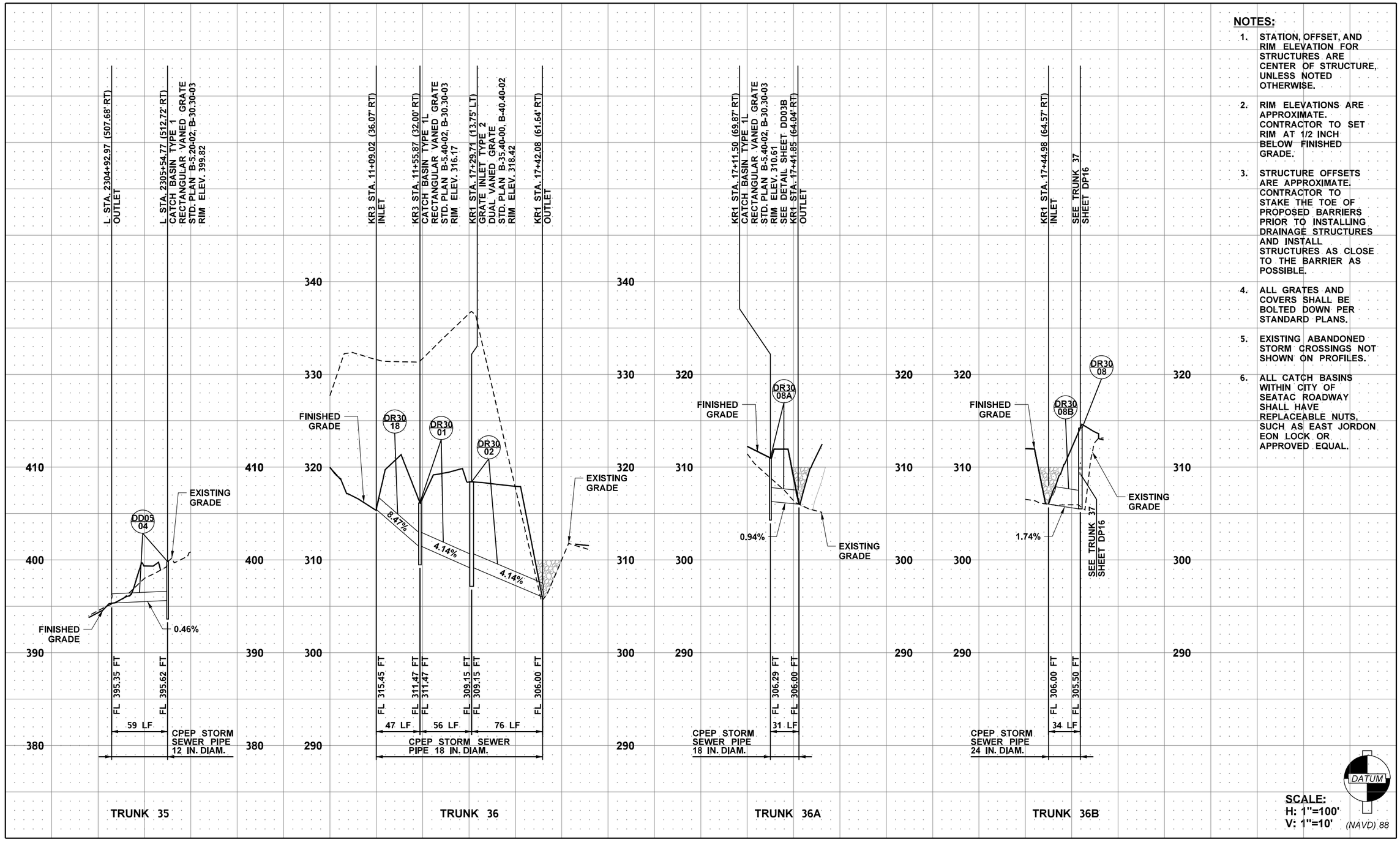
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP17

SHEET OF SHEETS



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SCALE:
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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP18.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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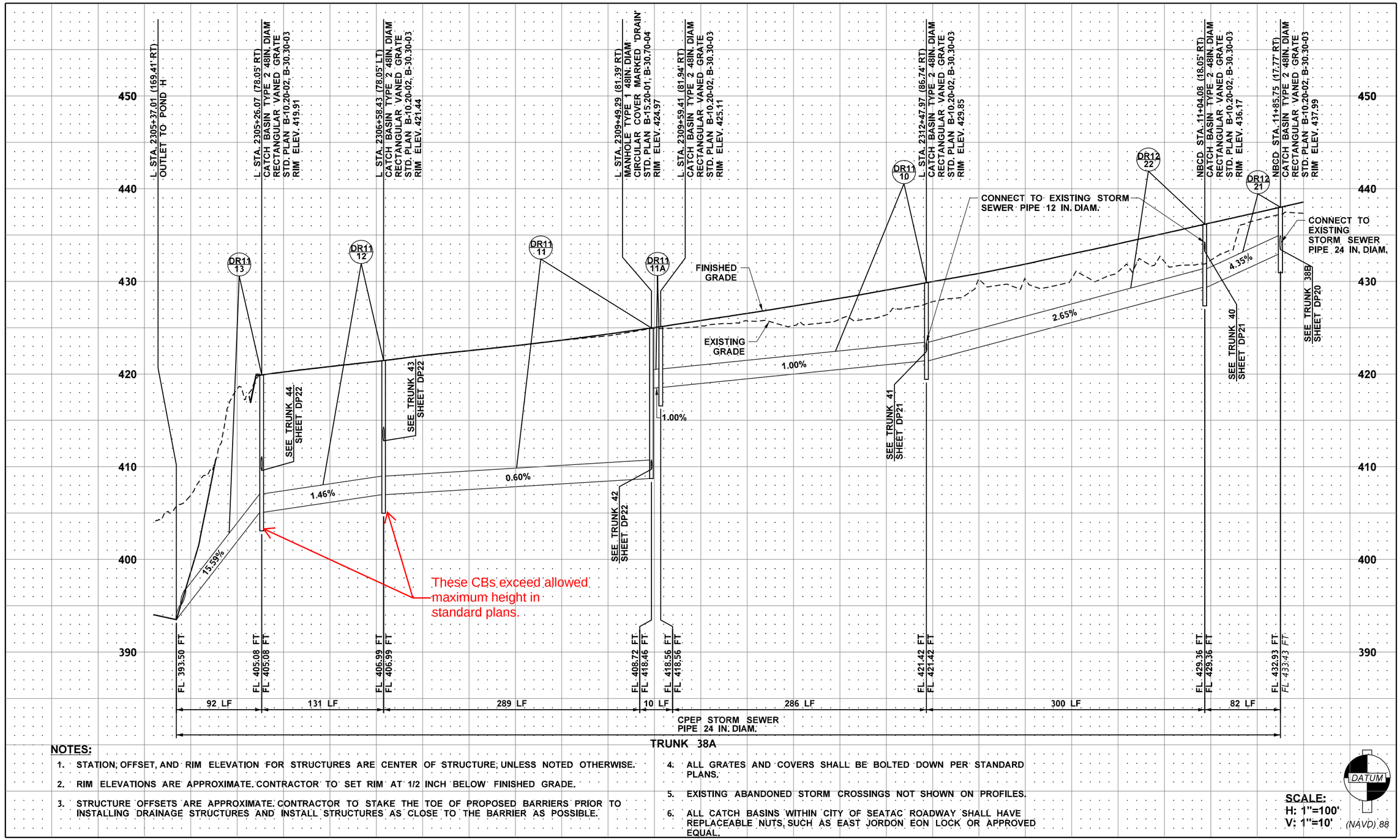
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP18

SHEET OF SHEETS



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DATUM (NAVD) 88

SCALE:
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PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	S. WELCH						
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CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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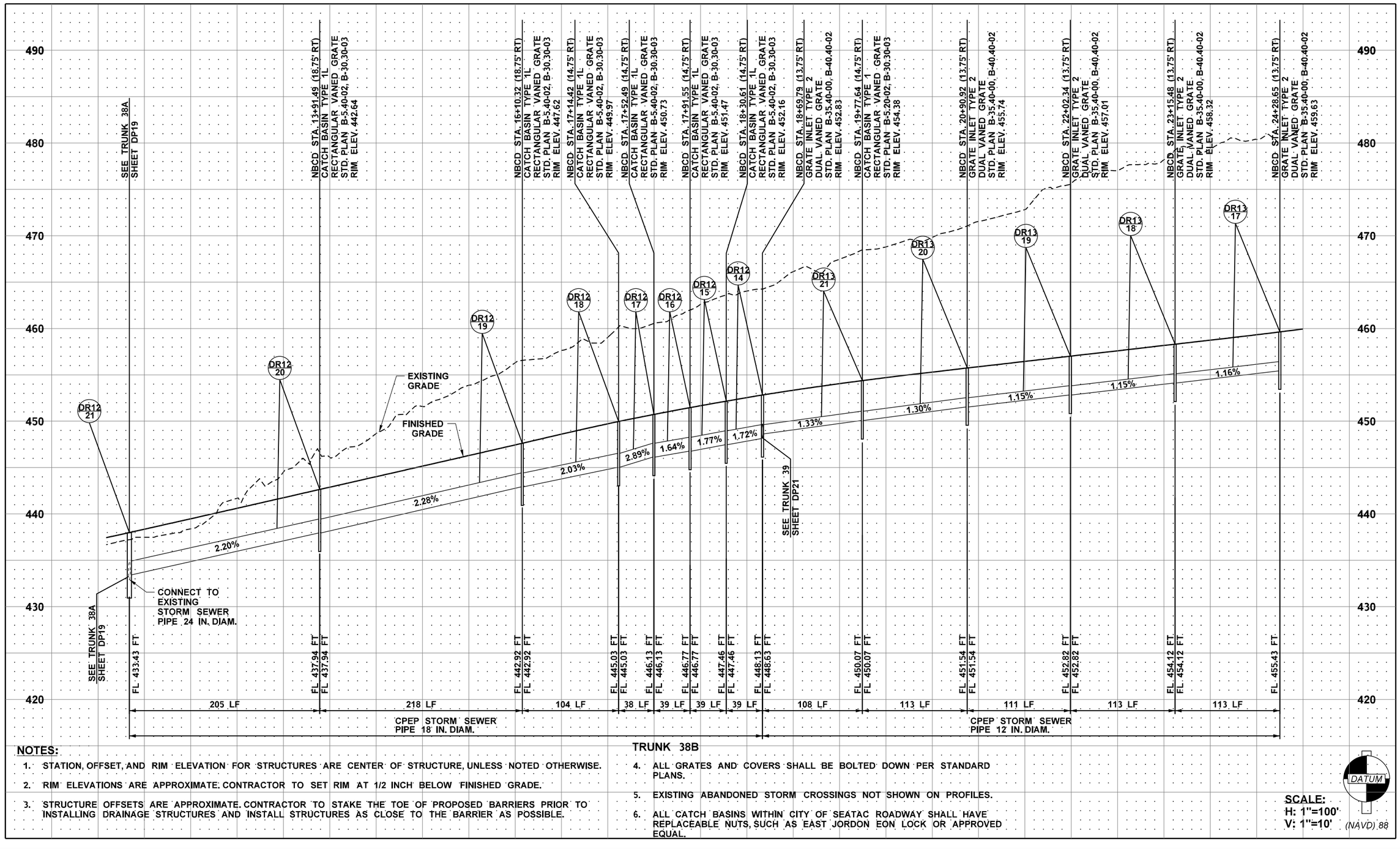
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP19

SHEET OF SHEETS



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SCALE:
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PLOTTED BY	GlennR			
DESIGNED BY	S. WELCH			
ENTERED BY	A. MAILLOUX			
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21	
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO. C9424

FED.AID PROJ.NO.

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PLAN REF. NO. DP20

SHEET OF SHEETS

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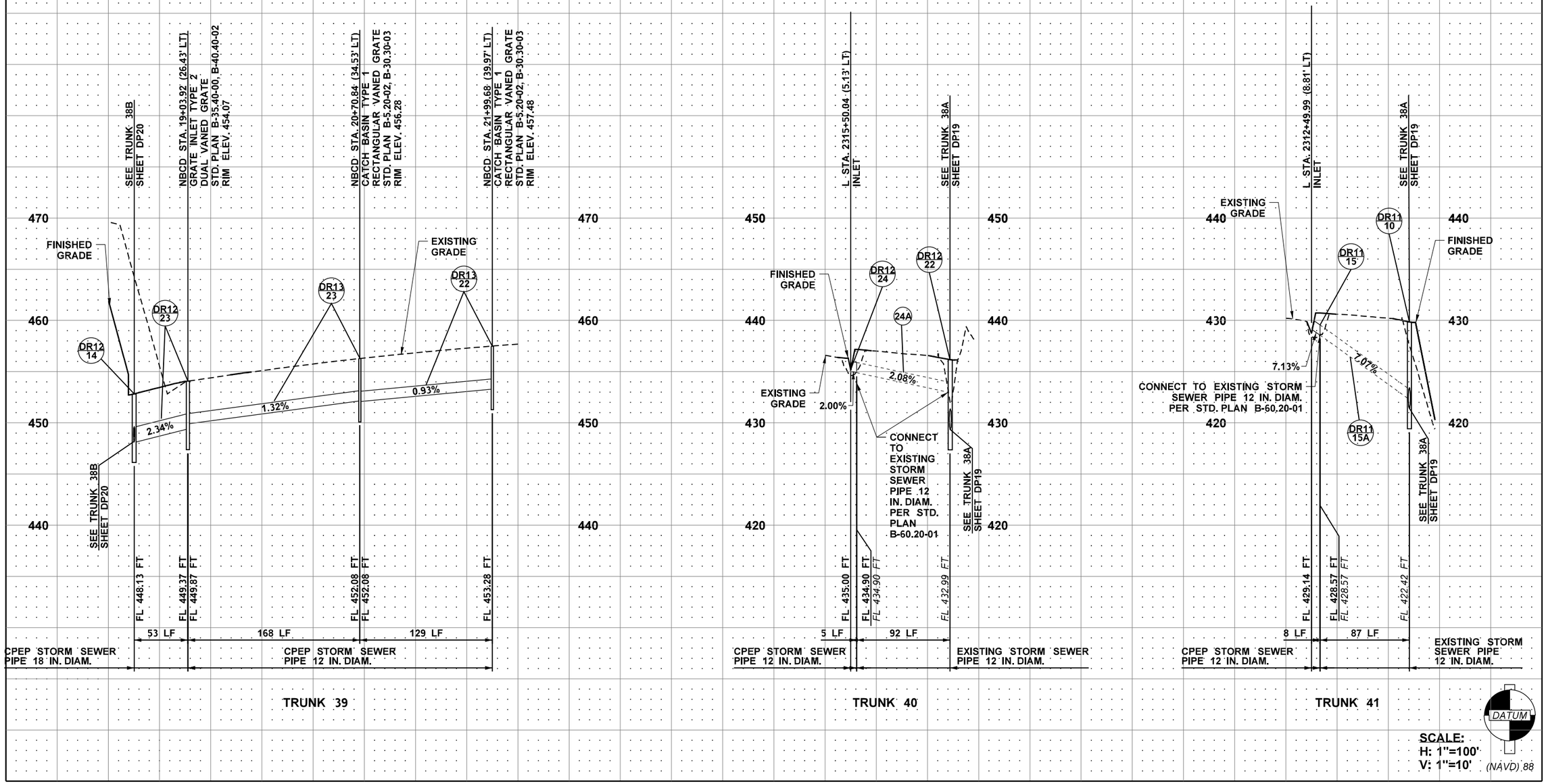

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V: 1"=10'

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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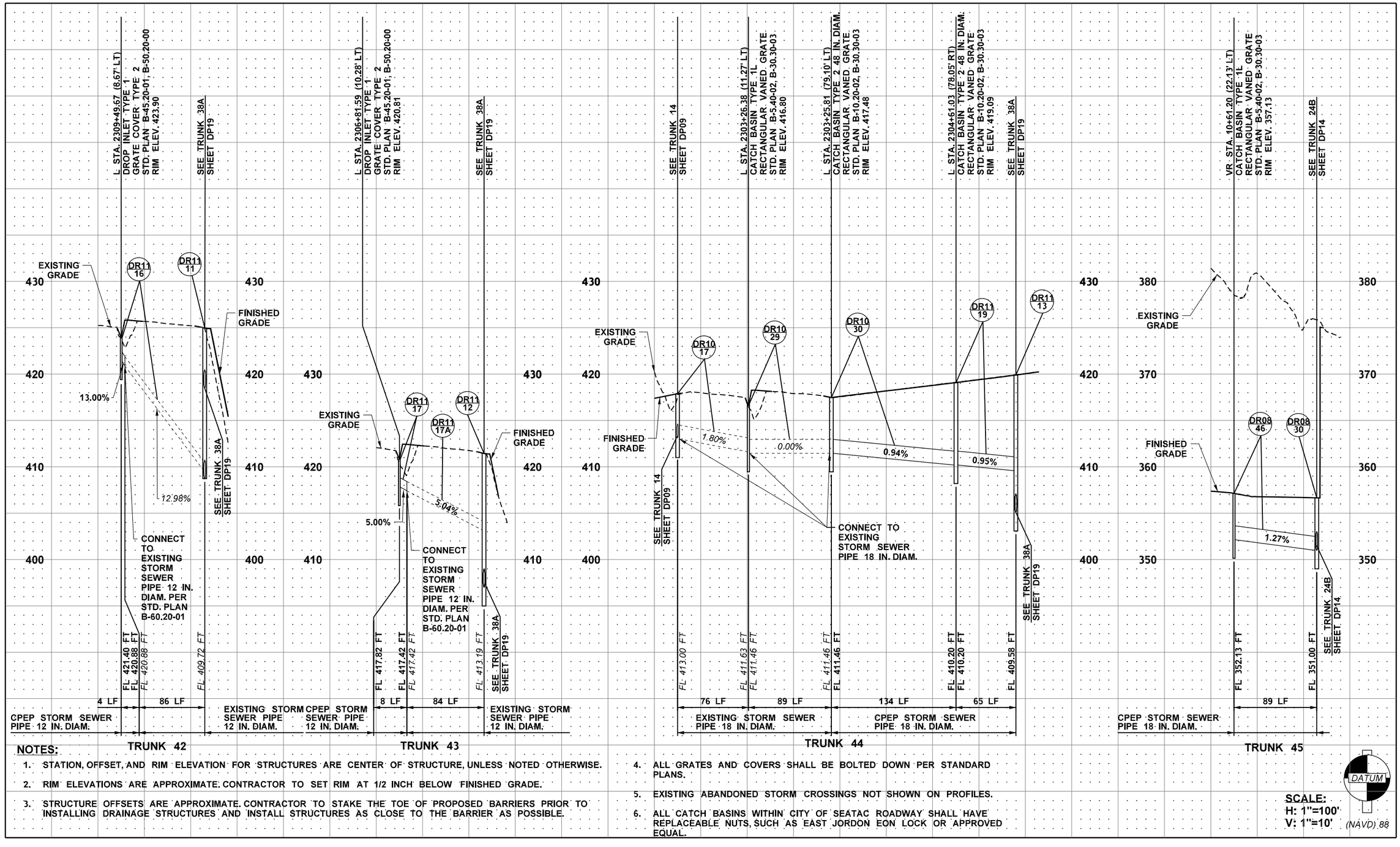
DRAINAGE PROFILE

PLAN REF. NO. DP21

SHEET OF SHEETS



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6. ALL CATCH BASINS WITHIN CITY OF SEATAC ROADWAY SHALL HAVE REPLACEABLE NUTS, SUCH AS EAST JORDON EON LOCK OR APPROVED EQUAL.

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP22.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:34:43 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G.RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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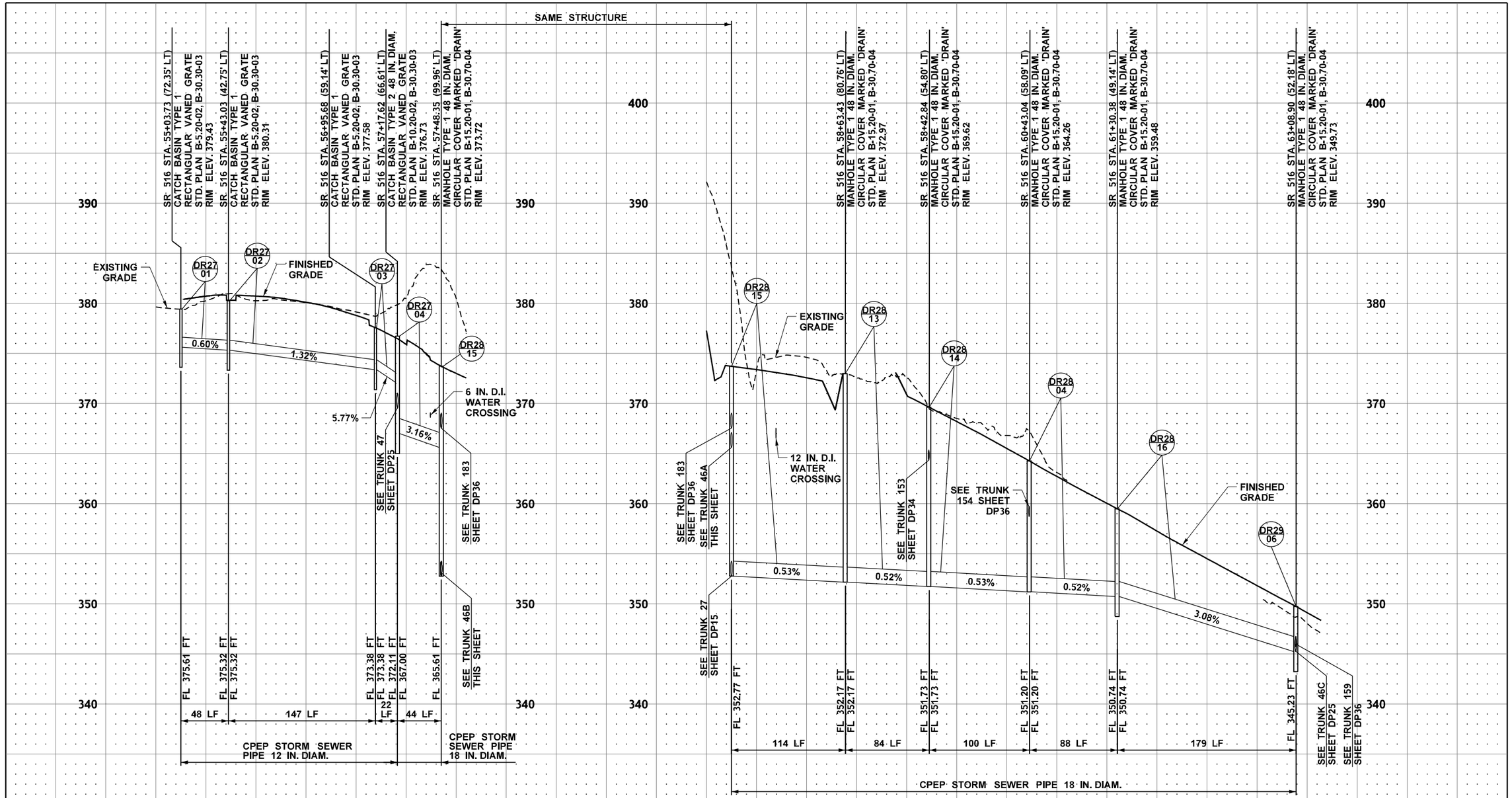
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP22

SHEET OF SHEETS



NOTES:

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DATUM (NAVD) 88

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP23.dgn						
TIME	1:34:53 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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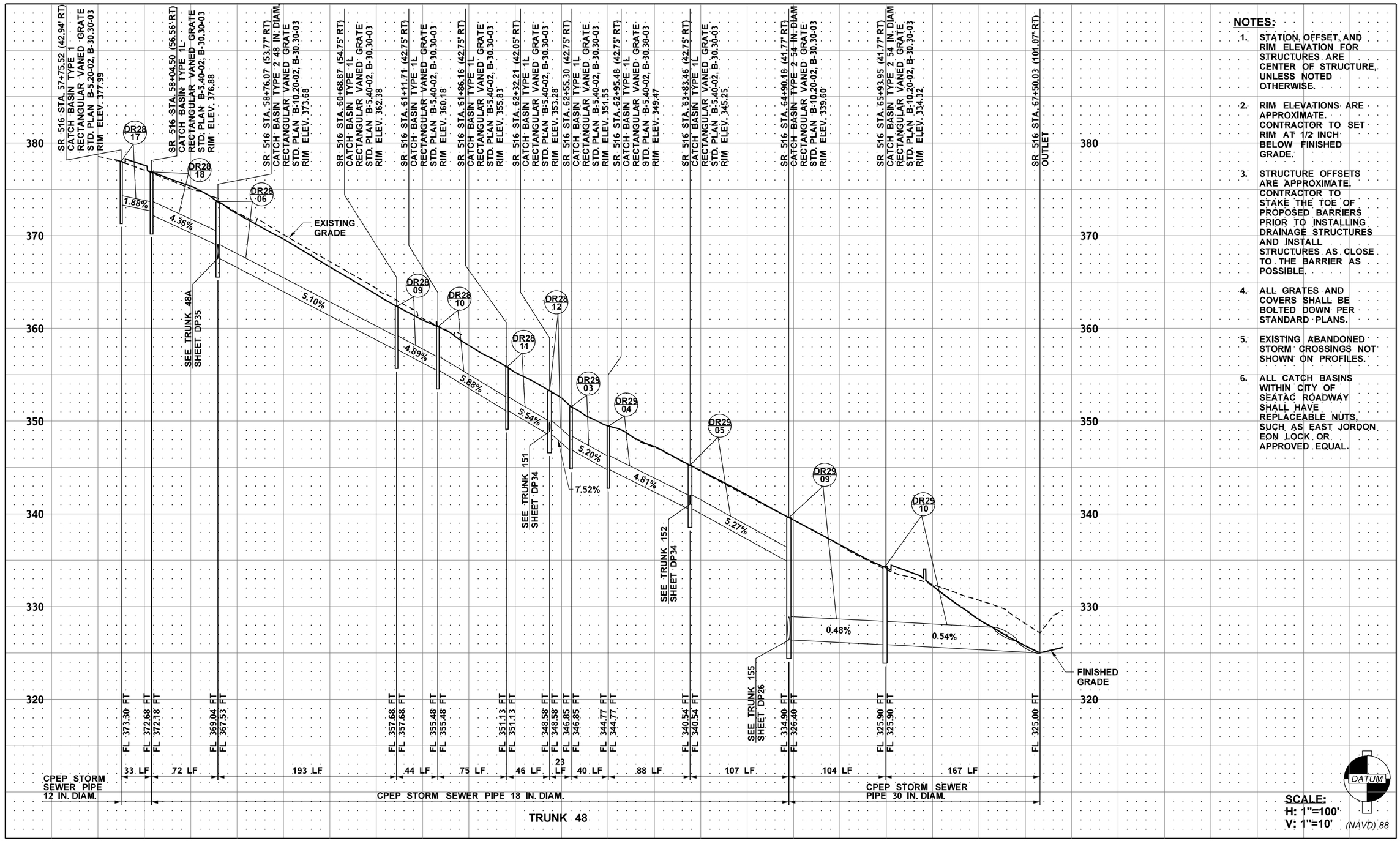
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP23

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP24.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:35:03 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP24

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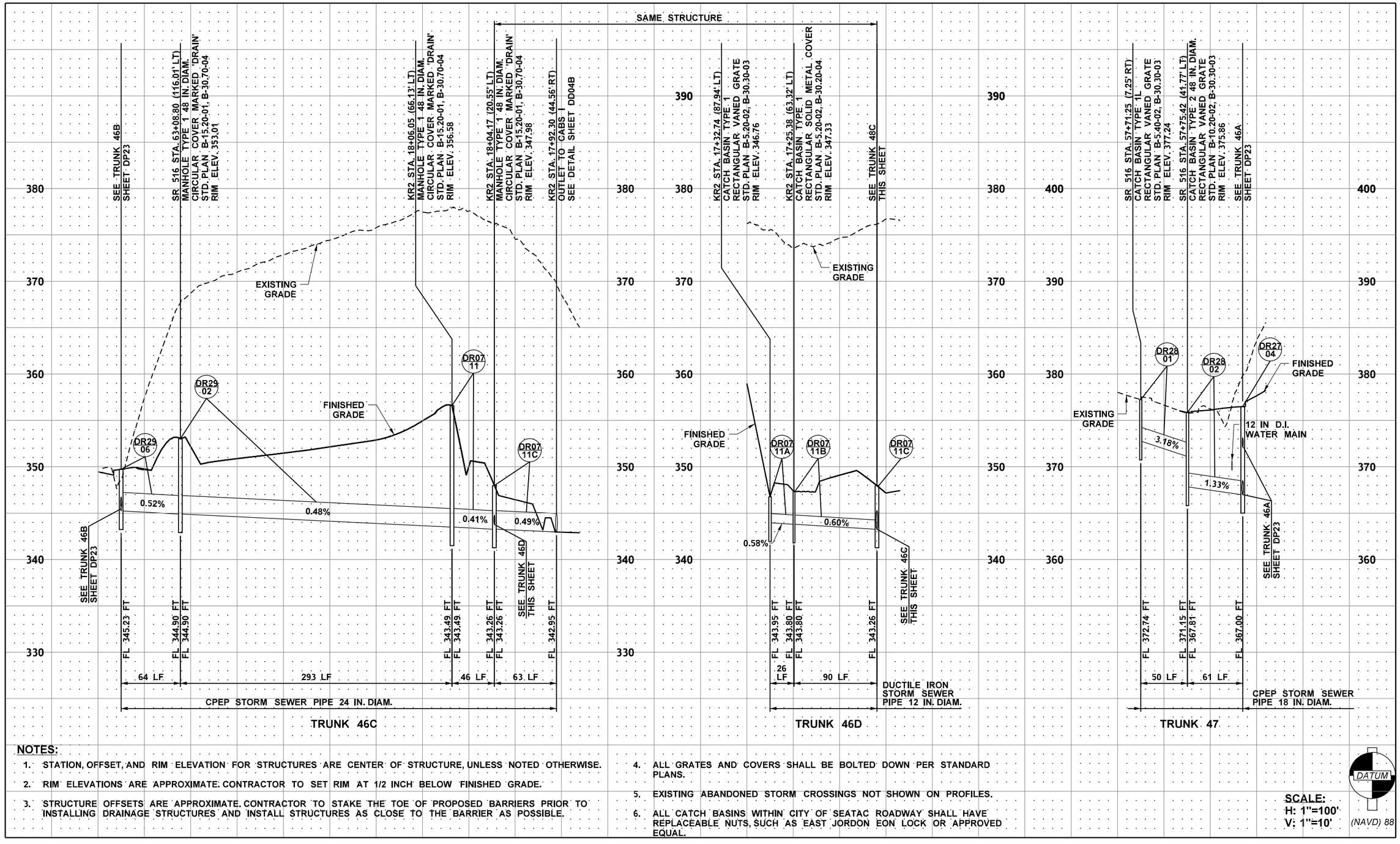

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DATUM (NAVD) 88

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\jeg_ex-welchs\d0321956\C9424_PR_DP25.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:49:22 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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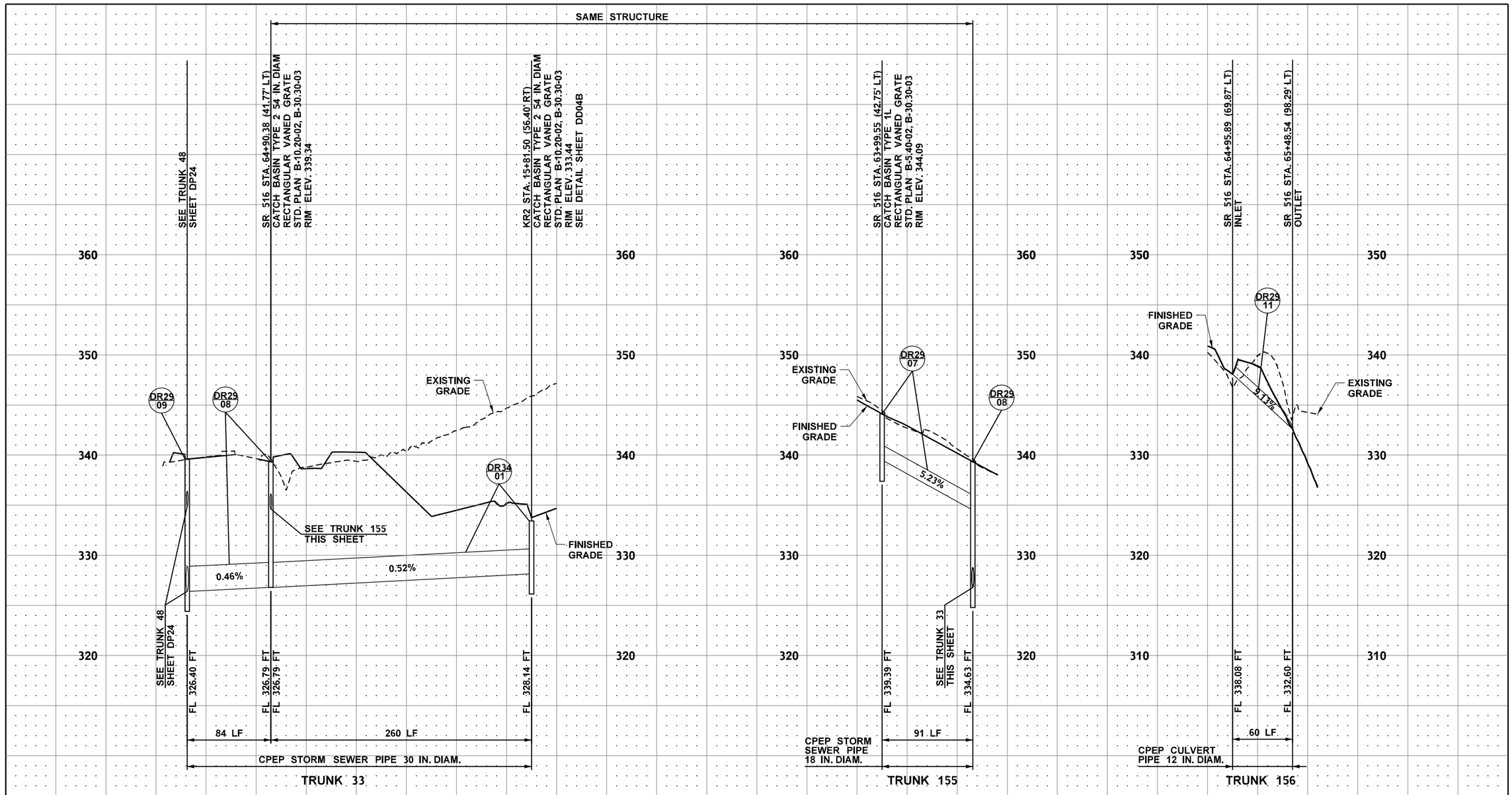
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP25

SHEET OF SHEETS



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DATUM (NAVD) 88

SCALE:
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V: 1"=10'

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TIME	1:35:25 PM			
DATE	12/16/2021			
PLOTTED BY	GlennR			
DESIGNED BY	S. WELCH			
ENTERED BY	A. MAILLOUX			
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21	
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY

REGION NO. 10 | STATE WASH | JOB NUMBER | CONTRACT NO. C9424 | FED.AID PROJ.NO. | LOCATION NO.

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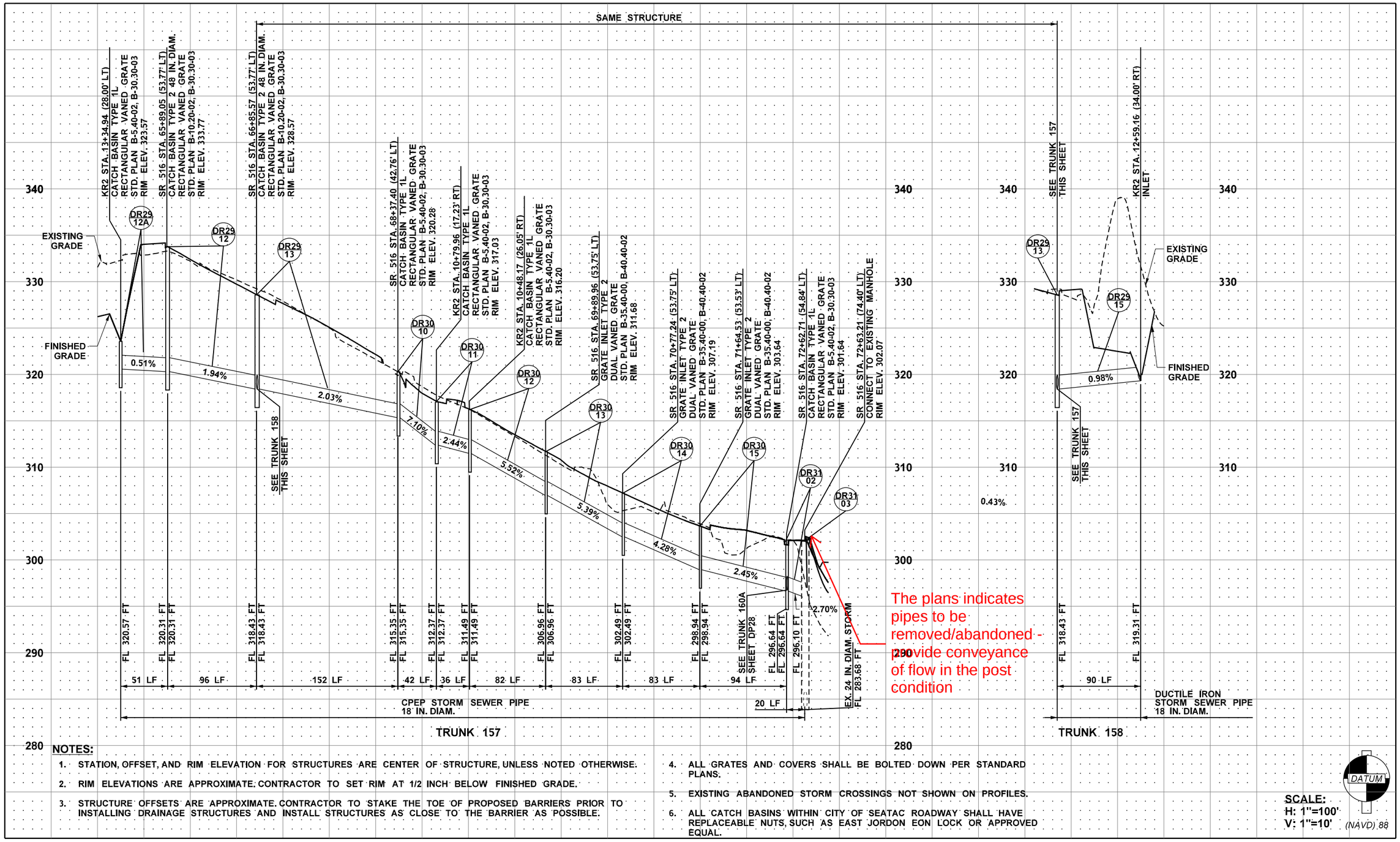
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP26

SHEET OF SHEETS



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SCALE:
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FILE NAME	c:\pwworking\jacobs_b&i\pw-rimandgr\d0321956\C9424_PR_DP27.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:35:34 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		LOCATION NO.
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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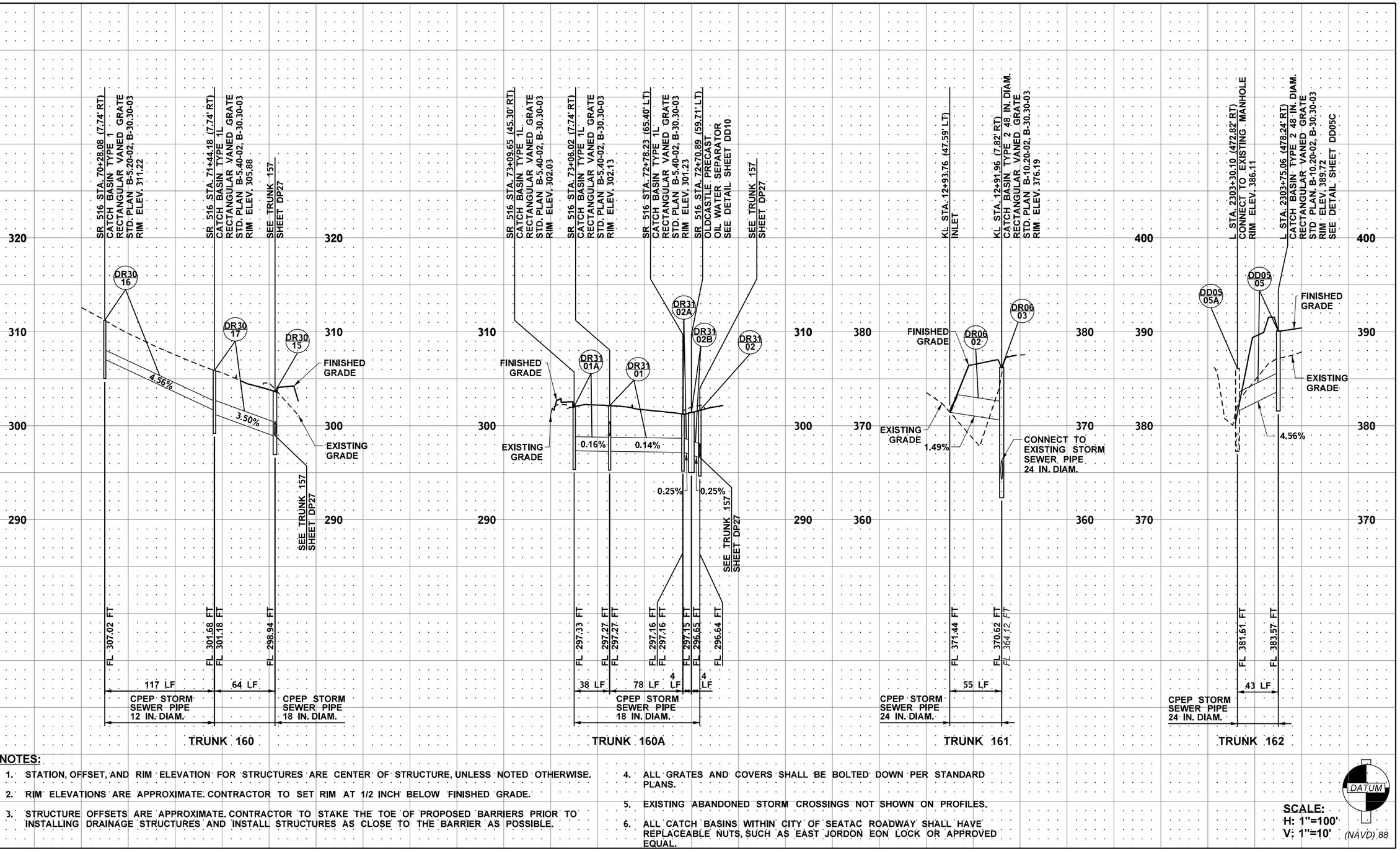
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP27

SHEET OF SHEETS



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DATUM (NAVD) 88

SCALE:
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V: 1"=10'

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TIME	6:04:28 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		C9424		
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

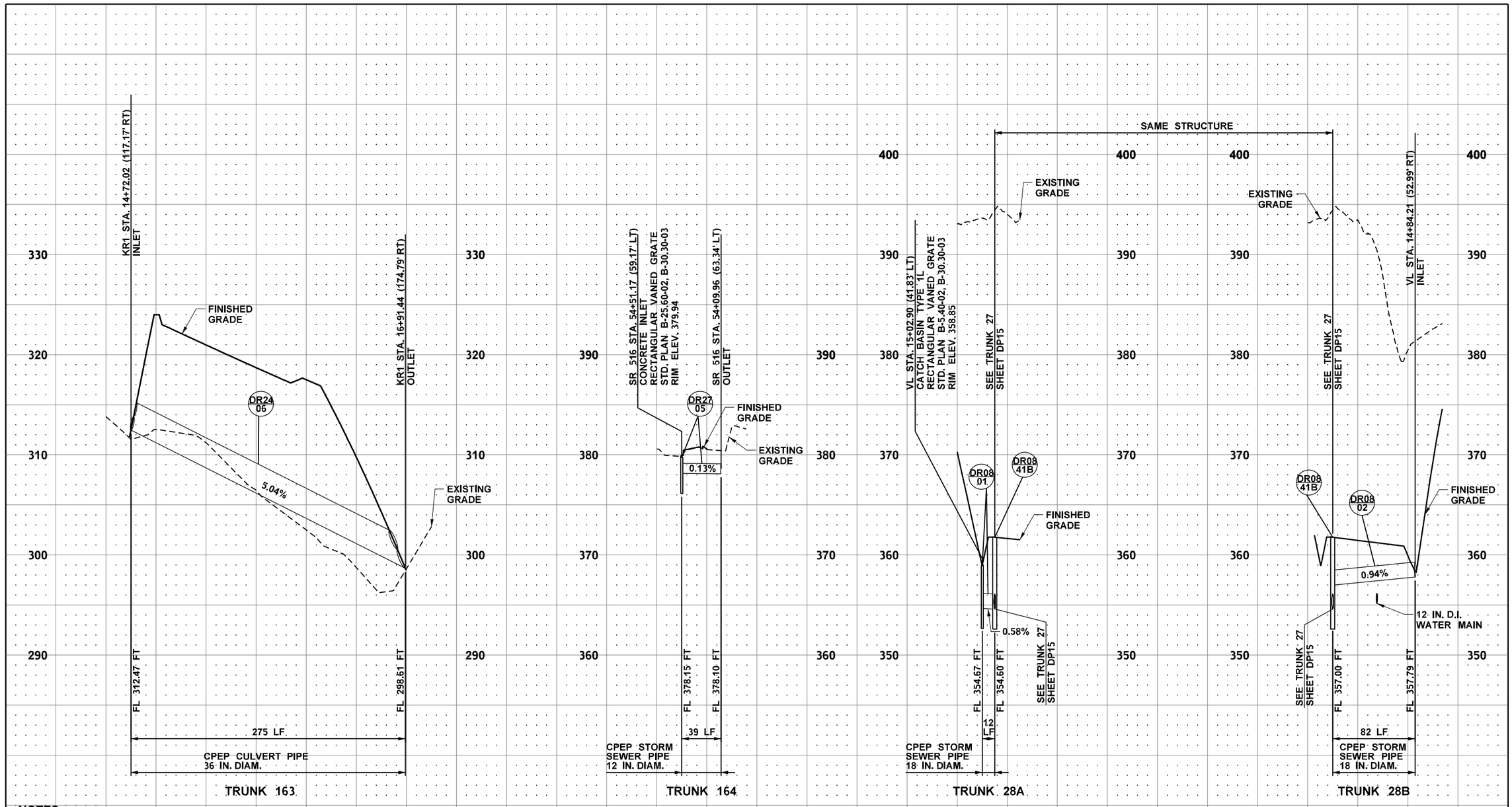
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP28

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP29.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		C9424		
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
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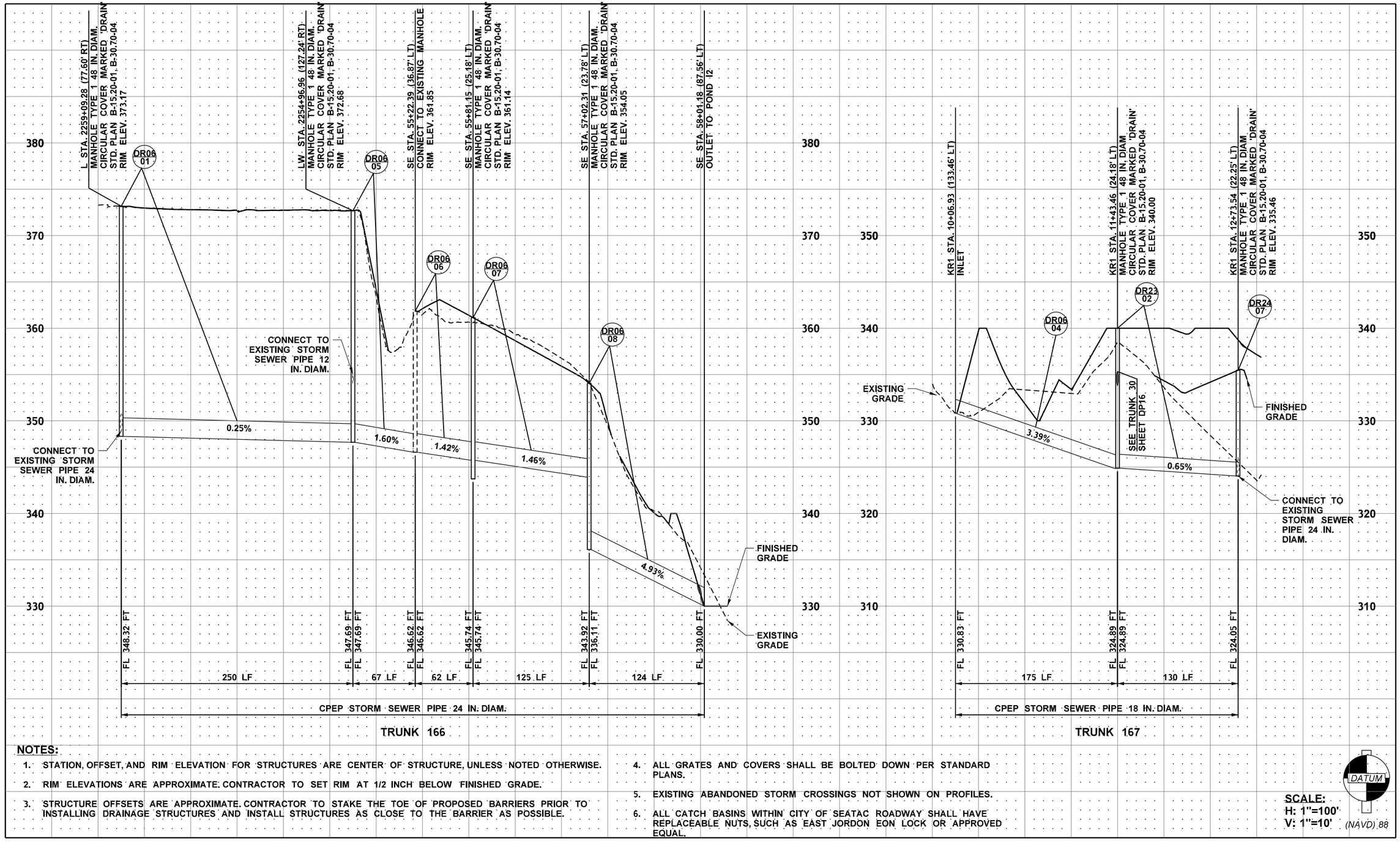
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP29

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP30.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:36:11 PM						
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PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP30

SHEET OF SHEETS

NOTES:

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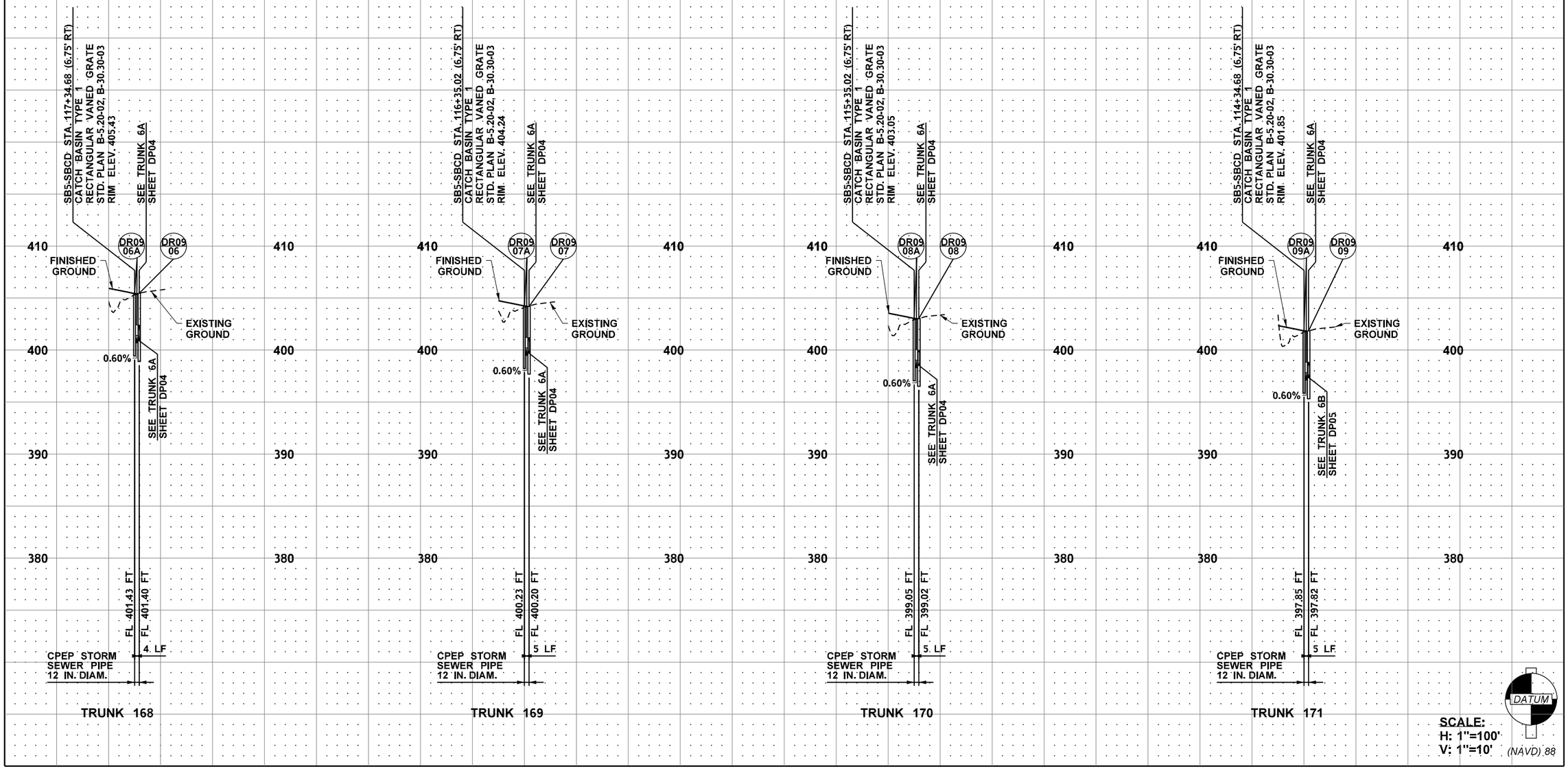

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PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC						
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO.
C9424

FED.AID PROJ.NO.

LOCATION NO.

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.
DP31

SHEET
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SHEETS

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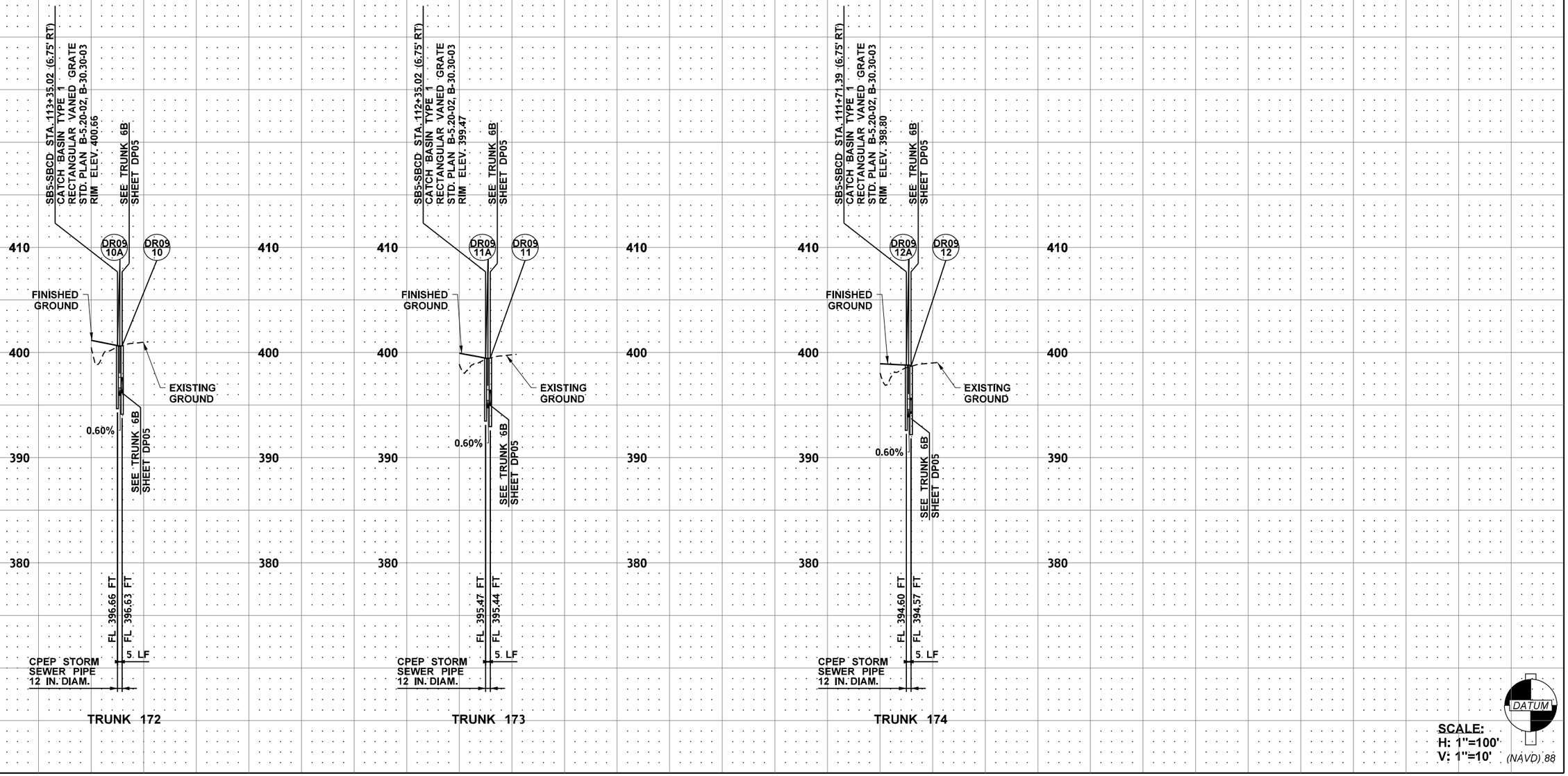

SCALE:
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V: 1"=10'

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TIME	1:48:24 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX				CONTRACT NO. C9424		LOCATION NO.
CHECKED BY	S. MESIC						
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP32

SHEET OF SHEETS

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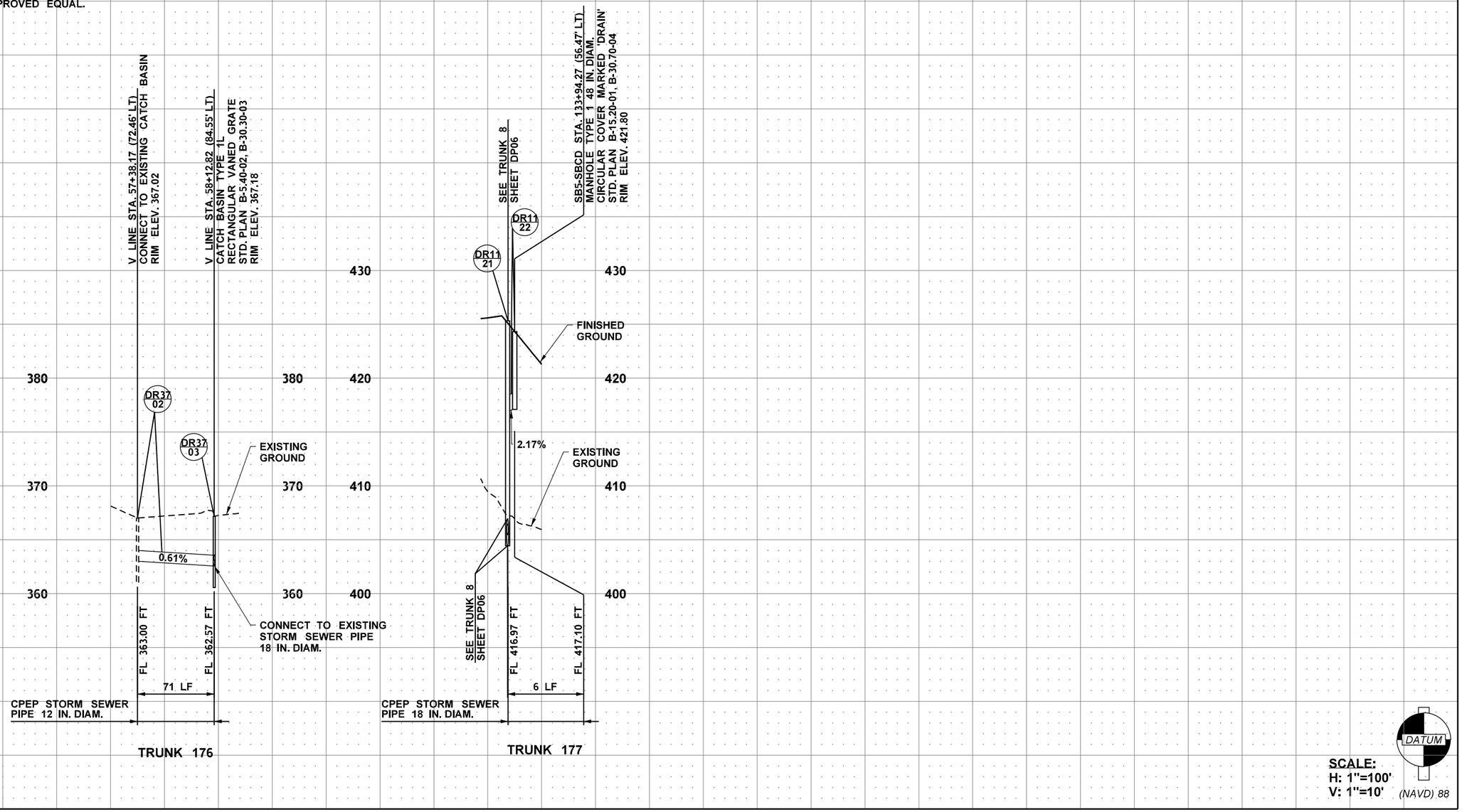

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DATUM (NAVD) 88

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TIME	1:48:44 PM				JOB NUMBER		
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PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	A. MAILLOUX				CONTRACT NO. C9424		LOCATION NO.
CHECKED BY	S. MESIC						
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
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Washington State Department of Transportation

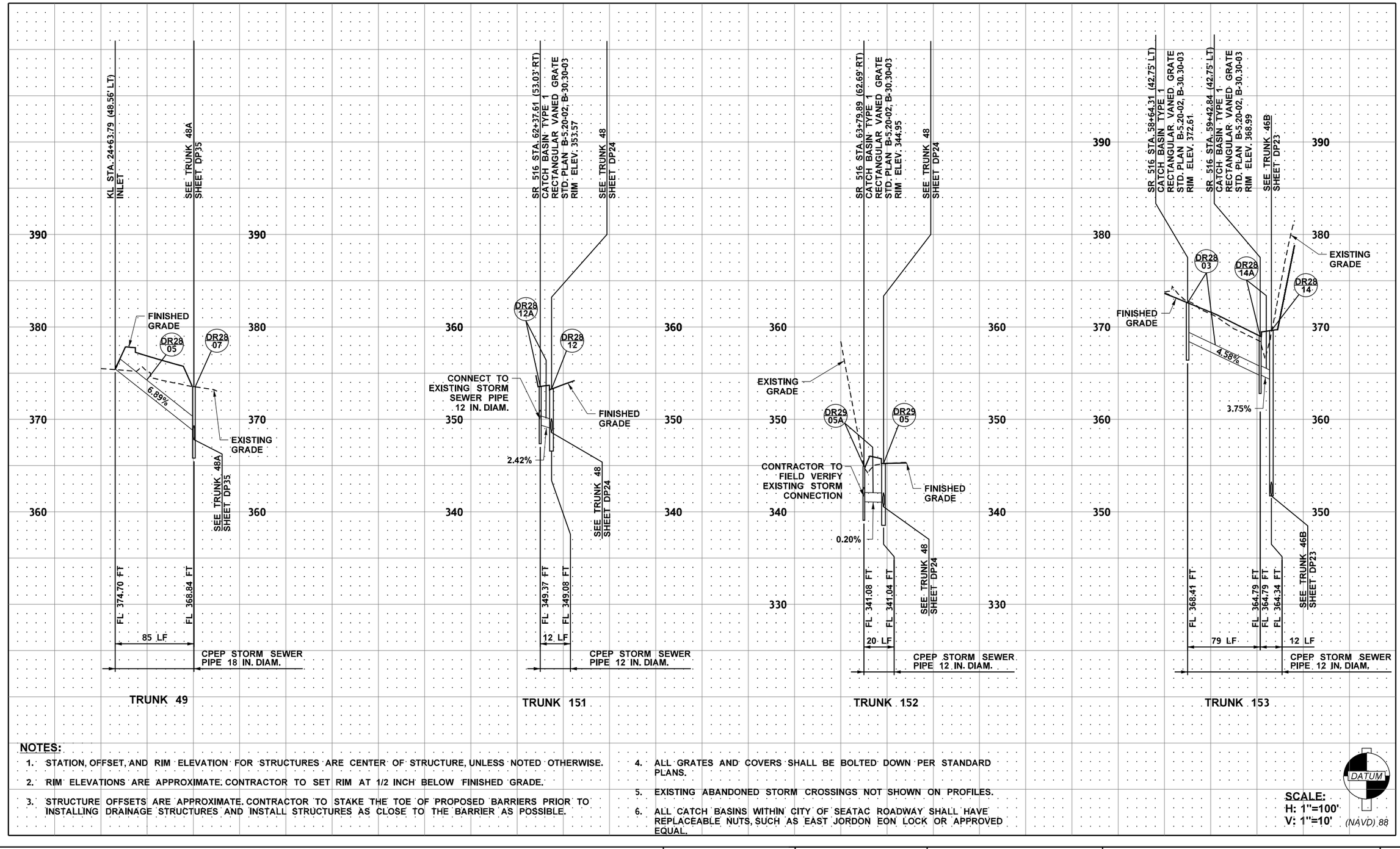
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP33

SHEET OF SHEETS



NOTES:

1. STATION, OFFSET, AND RIM ELEVATION FOR STRUCTURES ARE CENTER OF STRUCTURE, UNLESS NOTED OTHERWISE.
2. RIM ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO SET RIM AT 1/2 INCH BELOW FINISHED GRADE.
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4. ALL GRATES AND COVERS SHALL BE BOLTED DOWN PER STANDARD PLANS.
5. EXISTING ABANDONED STORM CROSSINGS NOT SHOWN ON PROFILES.
6. ALL CATCH BASINS WITHIN CITY OF SEATAC ROADWAY SHALL HAVE REPLACEABLE NUTS, SUCH AS EAST JORDON EON LOCK OR APPROVED EQUAL.

DATUM (NAVD) 88

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP34.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:49:06 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				CONTRACT NO. C9424		LOCATION NO.
ENTERED BY	A. MAILLOUX						
CHECKED BY	S. MESIC						
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

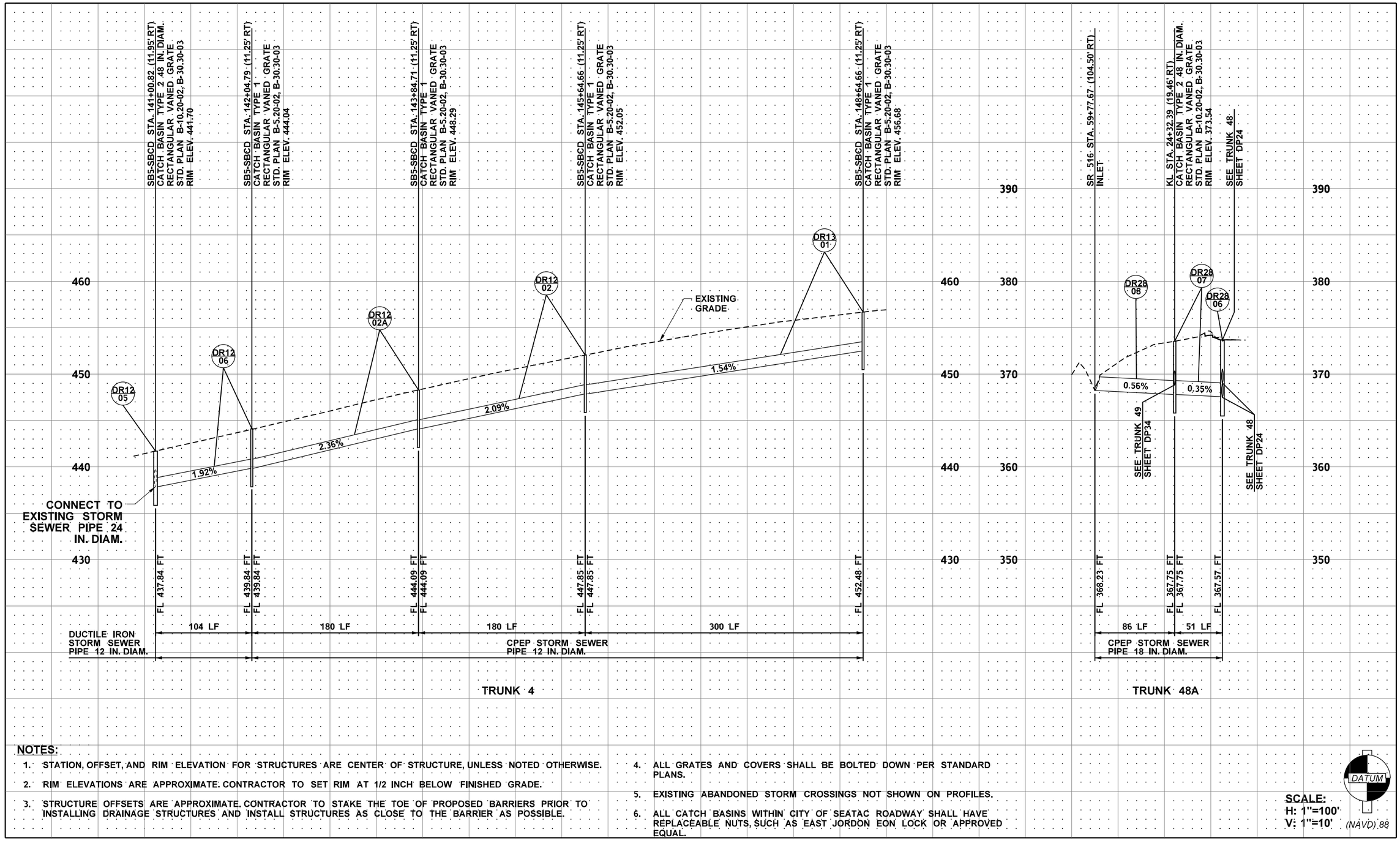
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP34

SHEET OF SHEETS



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DATUM (NAVD) 88

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\jeg_ex-welchs\d0321956\C9424_PR_DP35.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:06:22 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	N. KLYZHKO				CONTRACT NO.		
CHECKED BY	S. MESIC				C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

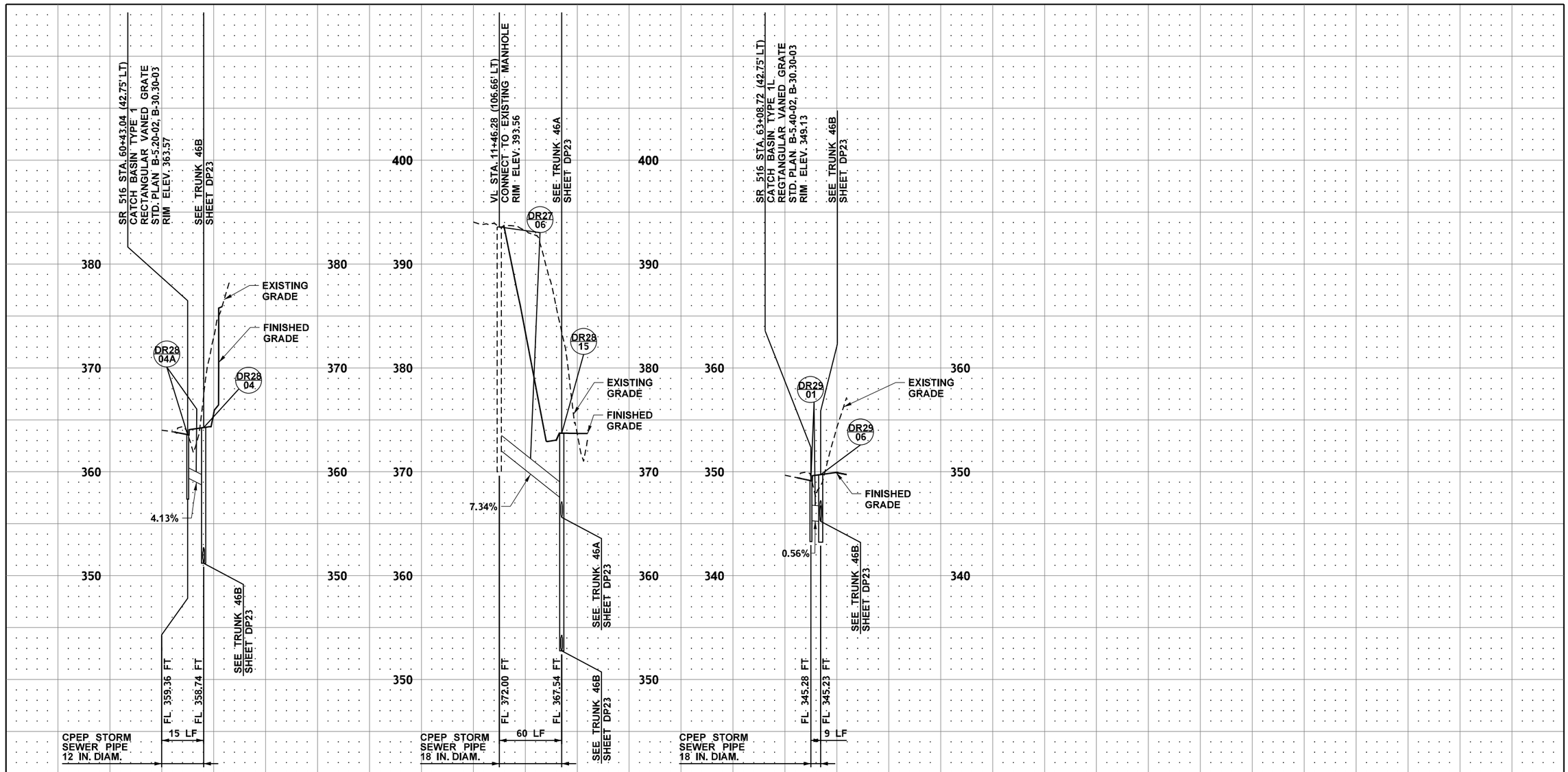
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.
DP35

SHEET
OF
SHEETS



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DATUM (NAVD) 88

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&flex-jamesn\d0321956\C9424_PR_DP36.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	12/17/2021				JOB NUMBER		
PLOTTED BY	NickJ						
DESIGNED BY	S. WELCH						
ENTERED BY	N. KLYZHKO				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MESIC				C9424		
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

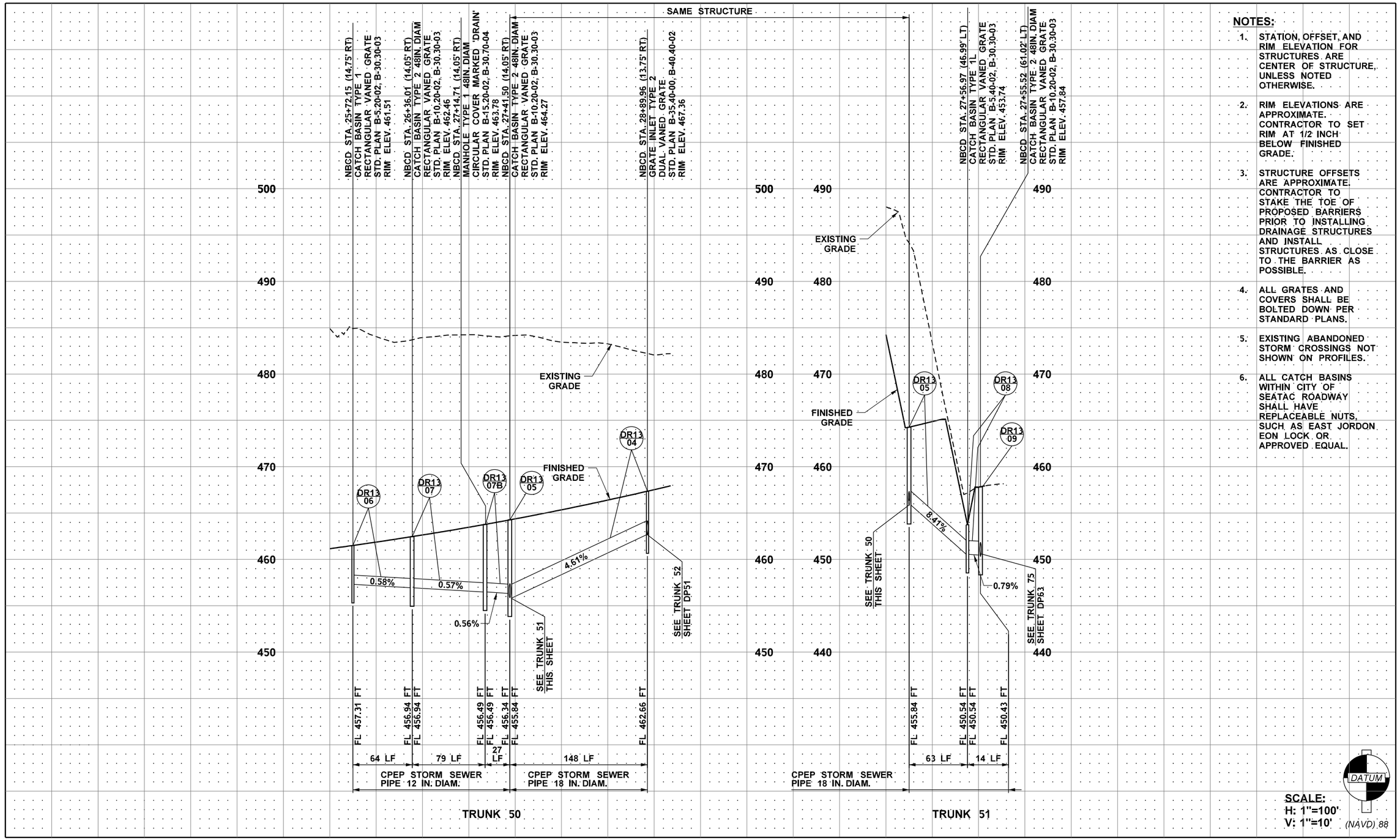
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP36

SHEET OF SHEETS



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DATUM (NAVD) 88

SCALE:
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V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&h\pw-rlmandgr\d0321956\C9424_PR_DP50.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:36:21 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
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Washington State Department of Transportation

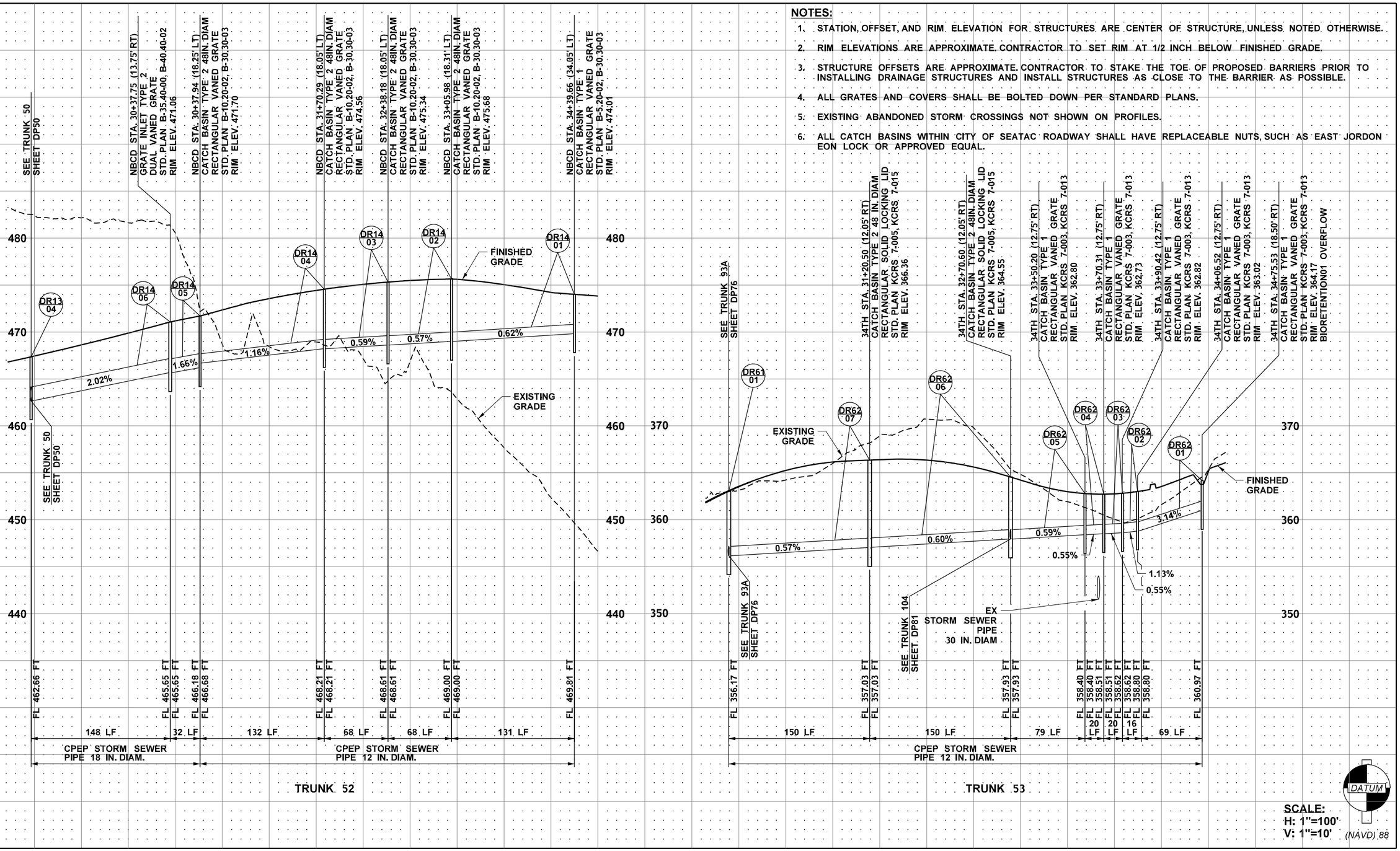
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP50

SHEET OF SHEETS



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SCALE:
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V: 1"=10'

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TIME	1:36:32 PM
DATE	12/16/2021
PLOTTED BY	GlennR
DESIGNED BY	S. WELCH
ENTERED BY	G. RIMANDO
CHECKED BY	S. MESIC
PROJ. ENGR.	A. CHEPEL
REGIONAL ADM.	J. WHITE

REVISION	DATE	BY
REV B - FINAL REVIEW	12/03/21	
REV A - PRELIMINARY REVIEW	7/23/21	

REGION NO. 10 | STATE WASH | JOB NUMBER | CONTRACT NO. C9424 | FED.AID PROJ.NO. | LOCATION NO.

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

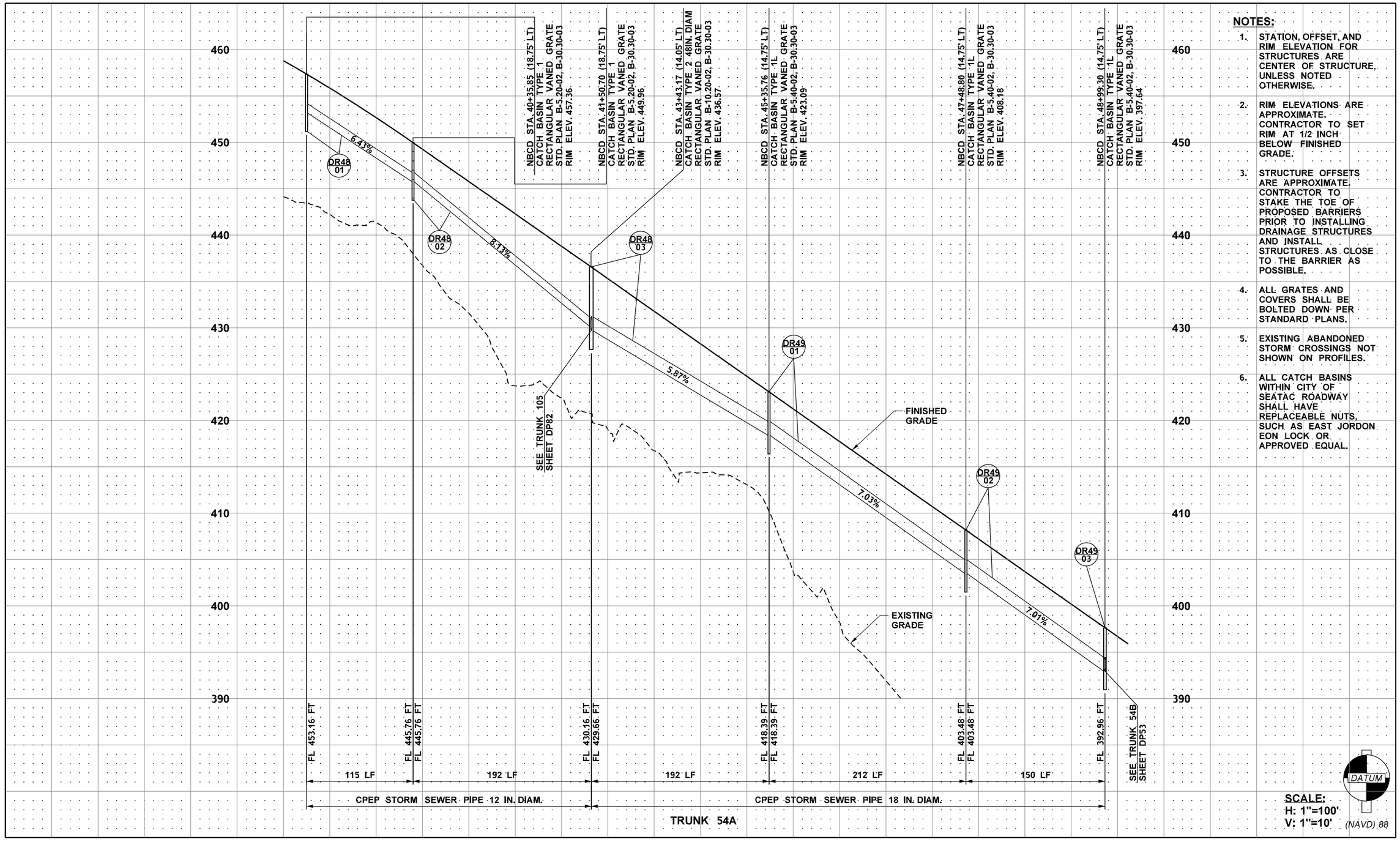
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP51

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP52.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:36:41 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		LOCATION NO.
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

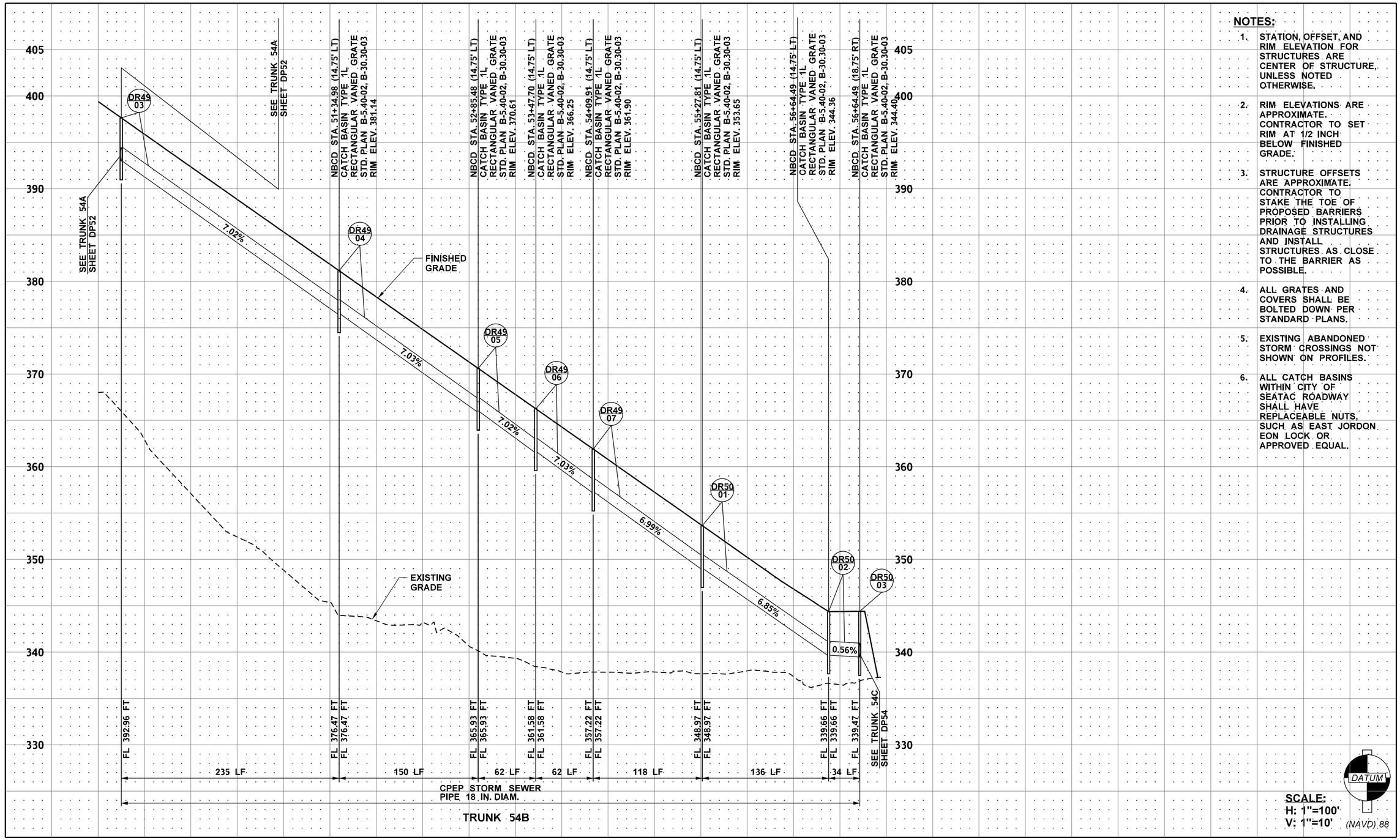
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP52

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP53.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:36:51 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

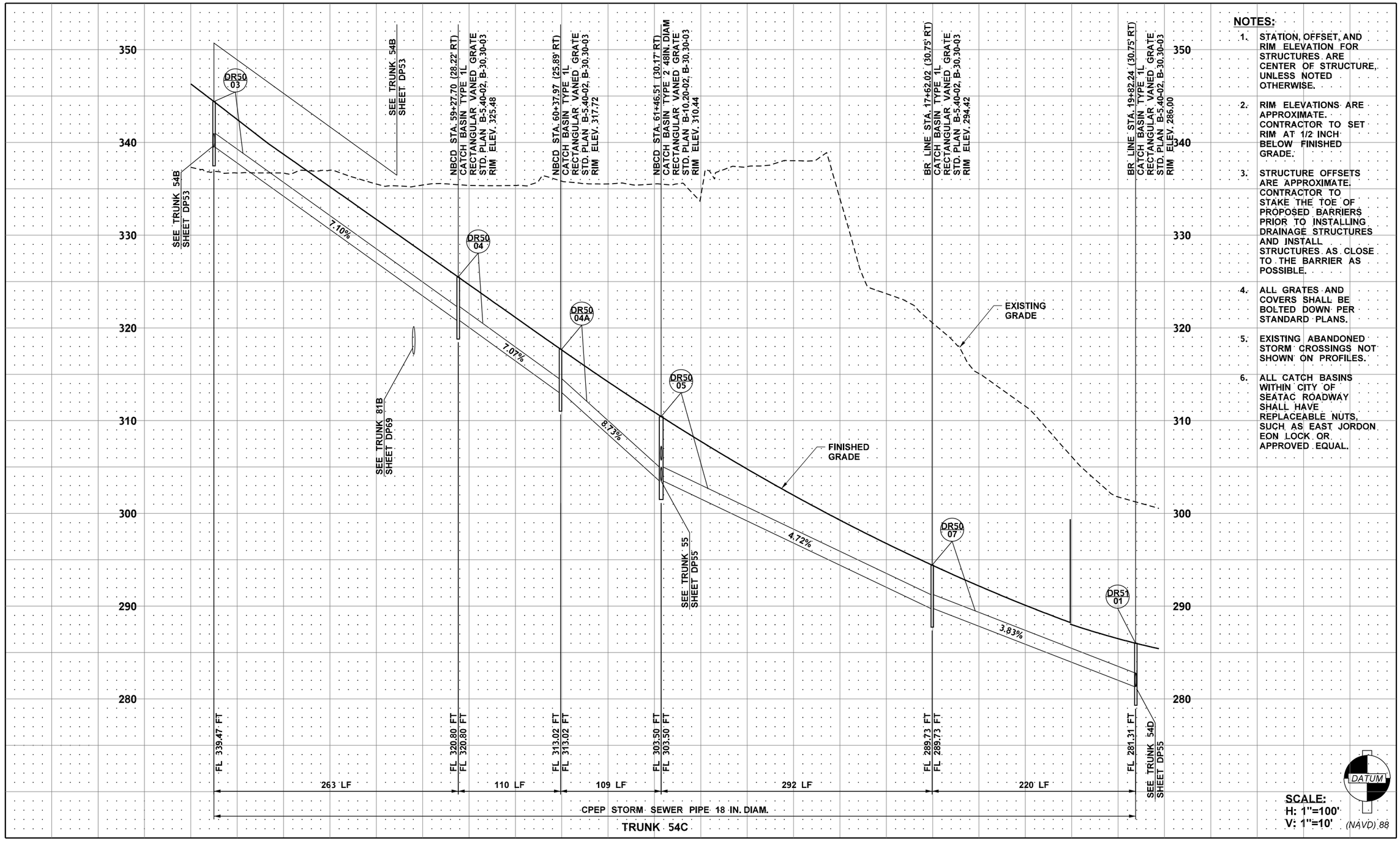
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP53

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP54.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:37:01 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				JOB NUMBER		
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP54

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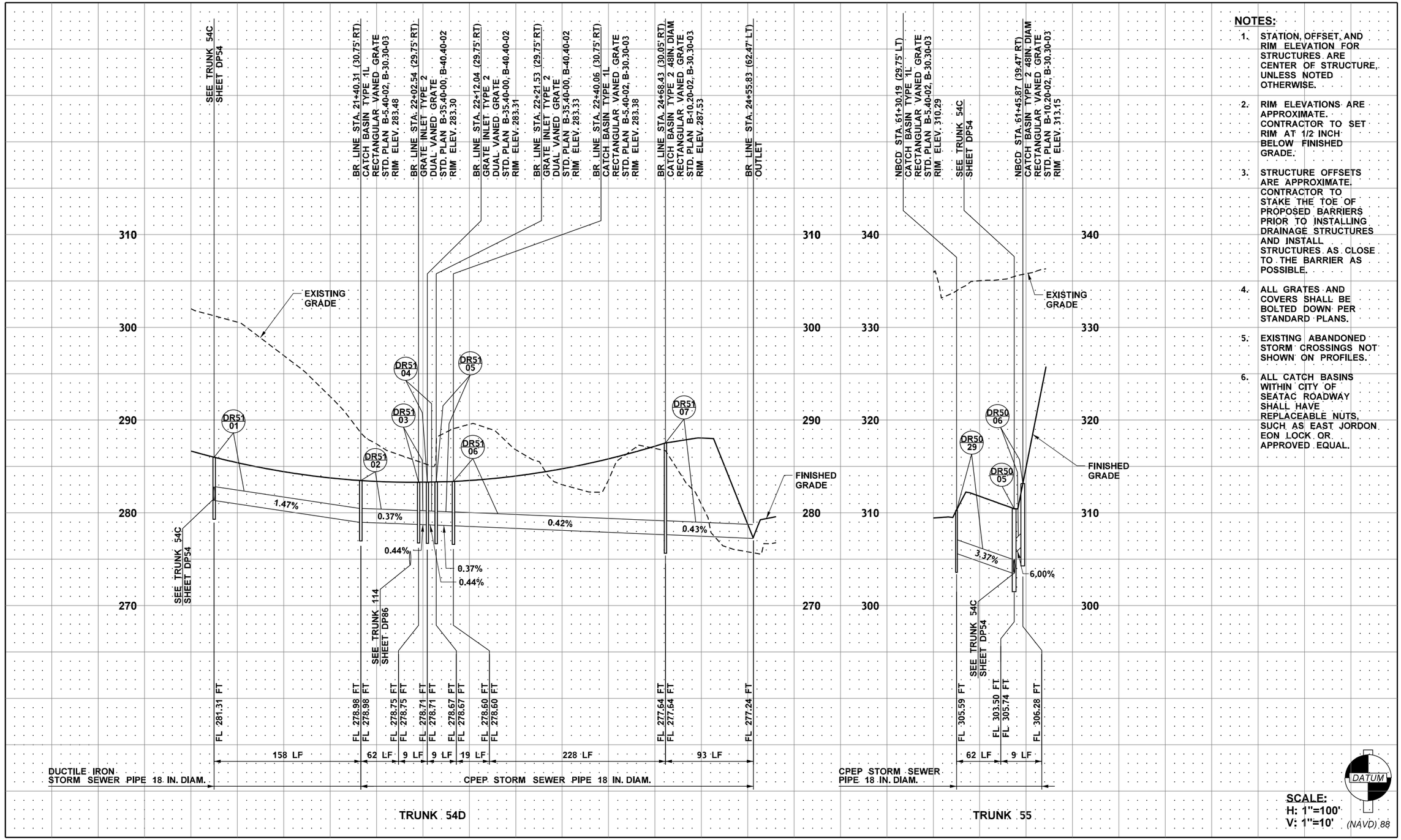

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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP55.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:37:13 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

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DRAINAGE PROFILE

PLAN REF. NO. DP55

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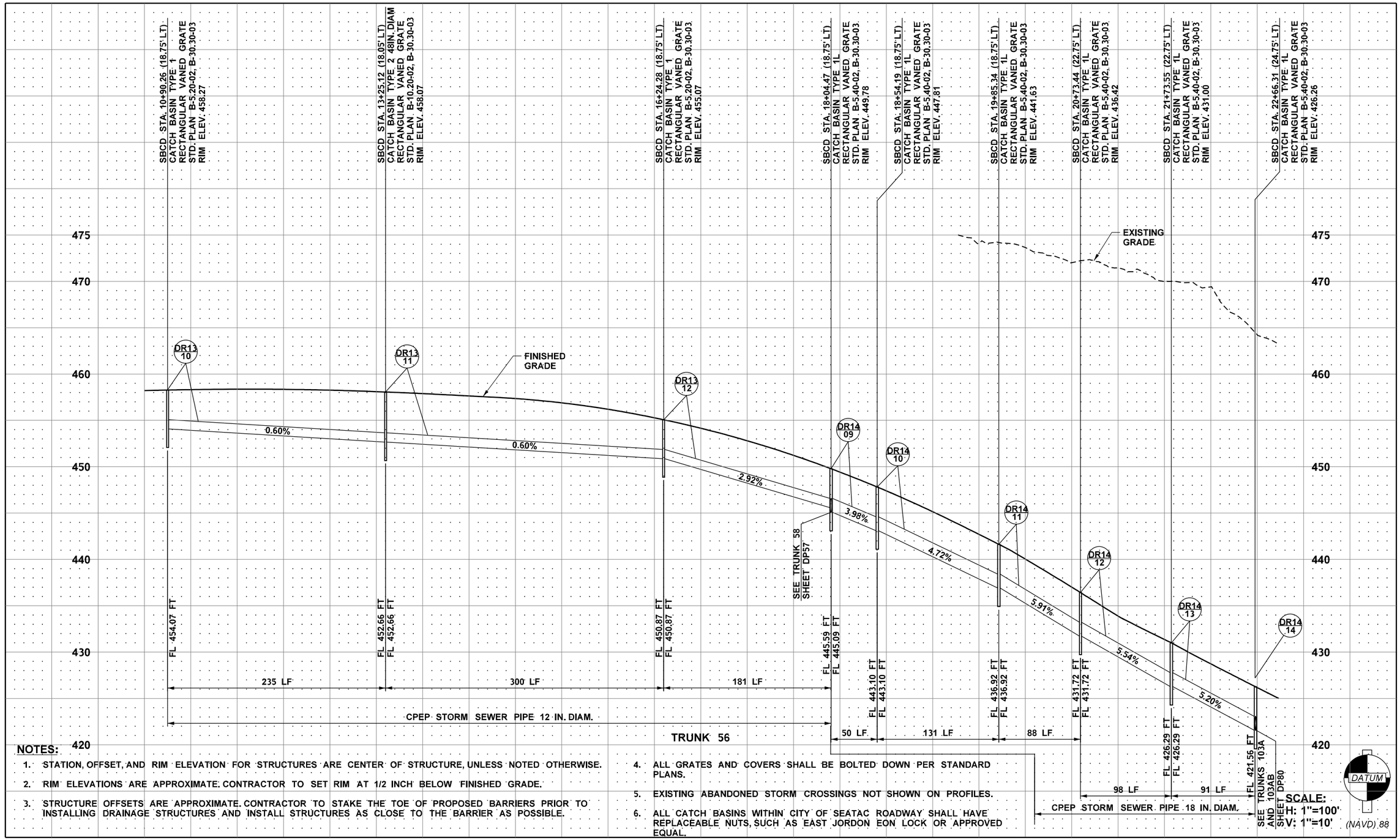

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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP56.dgn			
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PLOTTED BY	GlennR			
DESIGNED BY	S. WELCH			
ENTERED BY	G. RIMANDO			
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21	
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER

CONTRACT NO. C9424

FED.AID PROJ.NO.

LOCATION NO.

PRELIMINARY
NOT FOR CONSTRUCTION

SCOTT A. MESIC — 39377 — REGISTERED PROFESSIONAL ENGINEER

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP56

SHEET OF SHEETS

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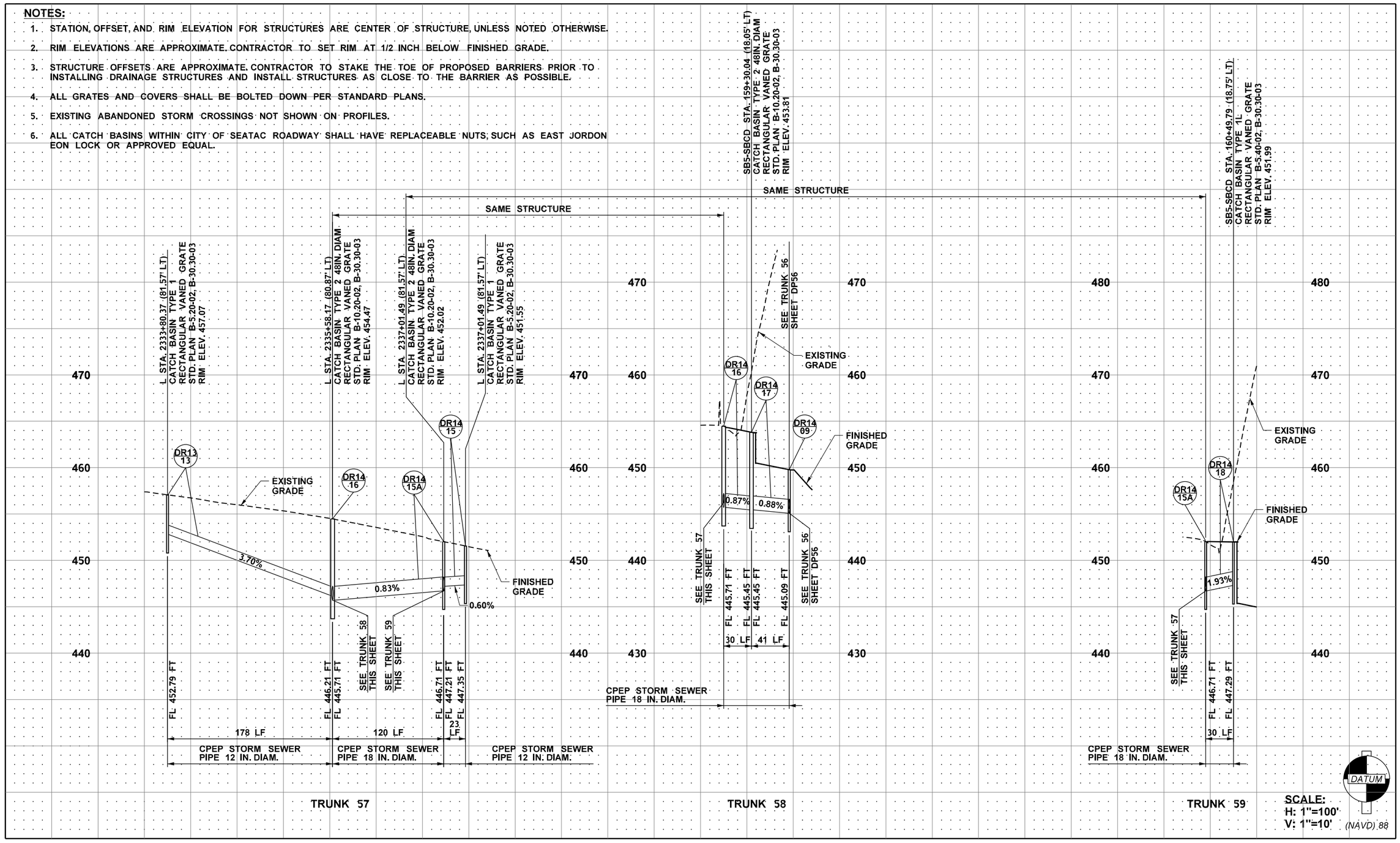

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PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				CONTRACT NO.		LOCATION NO.
ENTERED BY	G. RIMANDO				C9424		
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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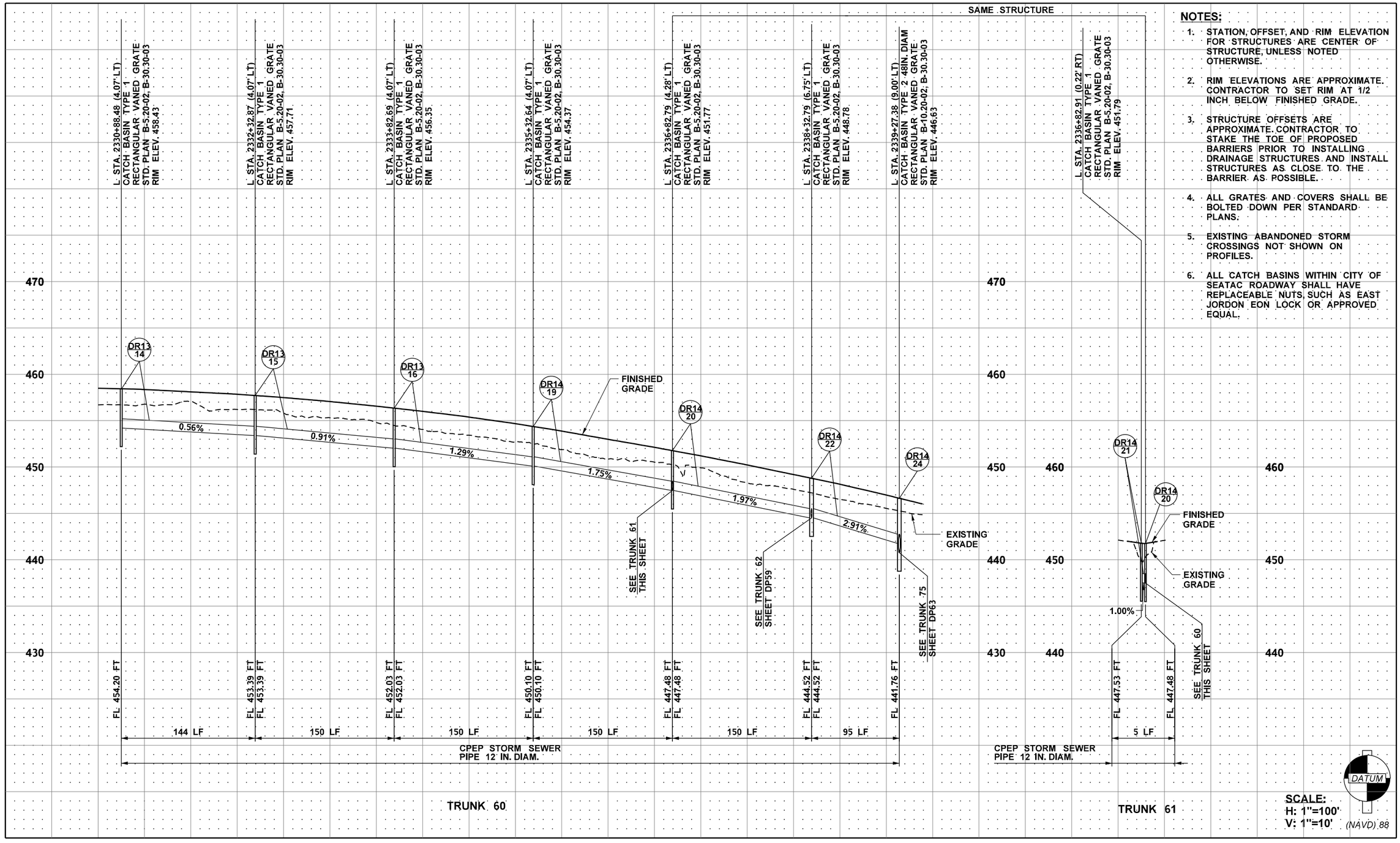

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6. ALL CATCH BASINS WITHIN CITY OF SEATAC ROADWAY SHALL HAVE REPLACEABLE NUTS, SUCH AS EAST JORDON EON LOCK OR APPROVED EQUAL.

SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&\lpw-rlmandgr\d0321956\C9424_PR_DP58.dgn						
TIME	1:37:44 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP58

SHEET OF SHEETS

DATUM

(NAVD) 88

SCALE:
H: 1"=100'
V: 1"=10'

NOTES:

1. STATION, OFFSET, AND RIM ELEVATION FOR STRUCTURES ARE CENTER OF STRUCTURE, UNLESS NOTED OTHERWISE.
2. RIM ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO SET RIM AT 1/2 INCH BELOW FINISHED GRADE.
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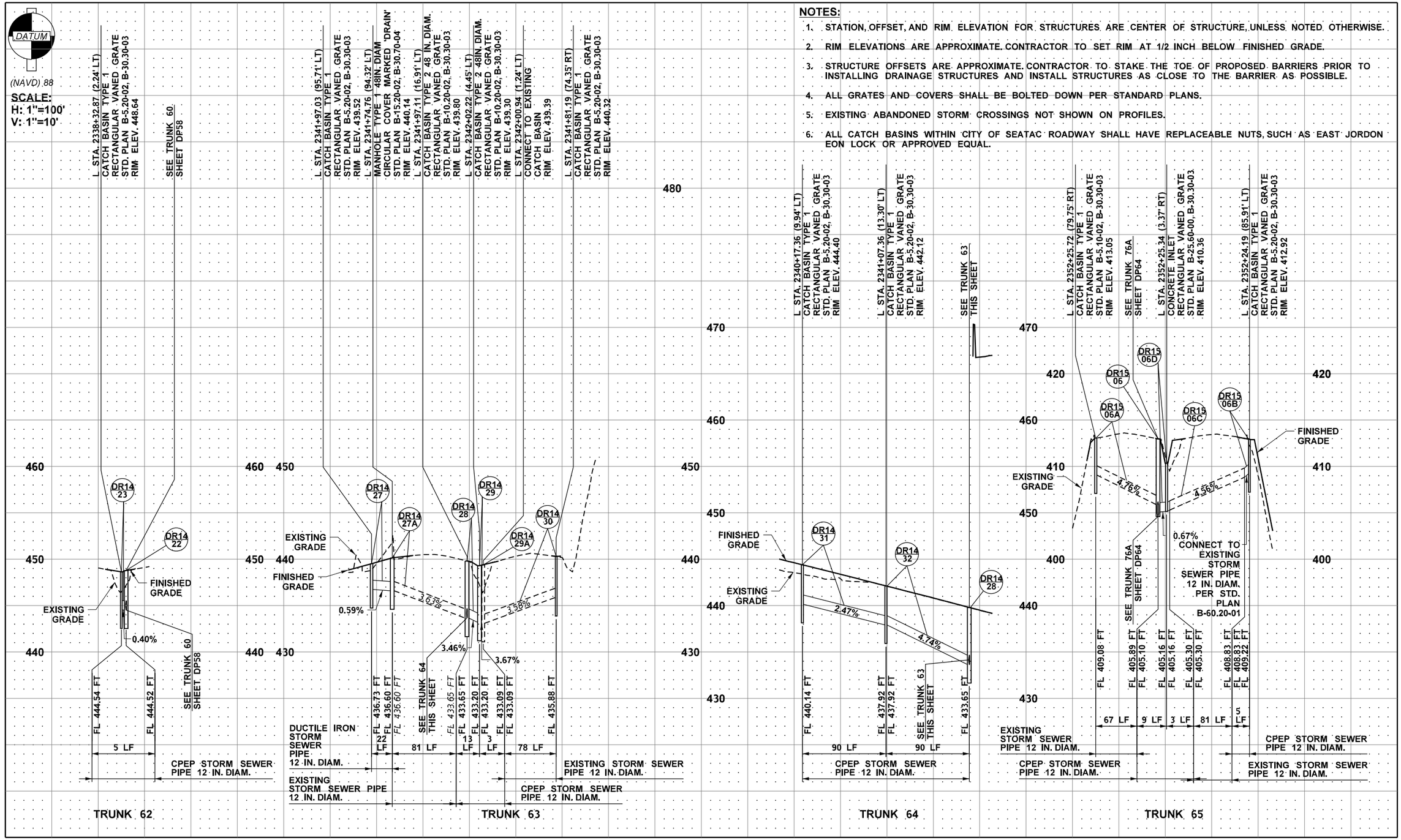

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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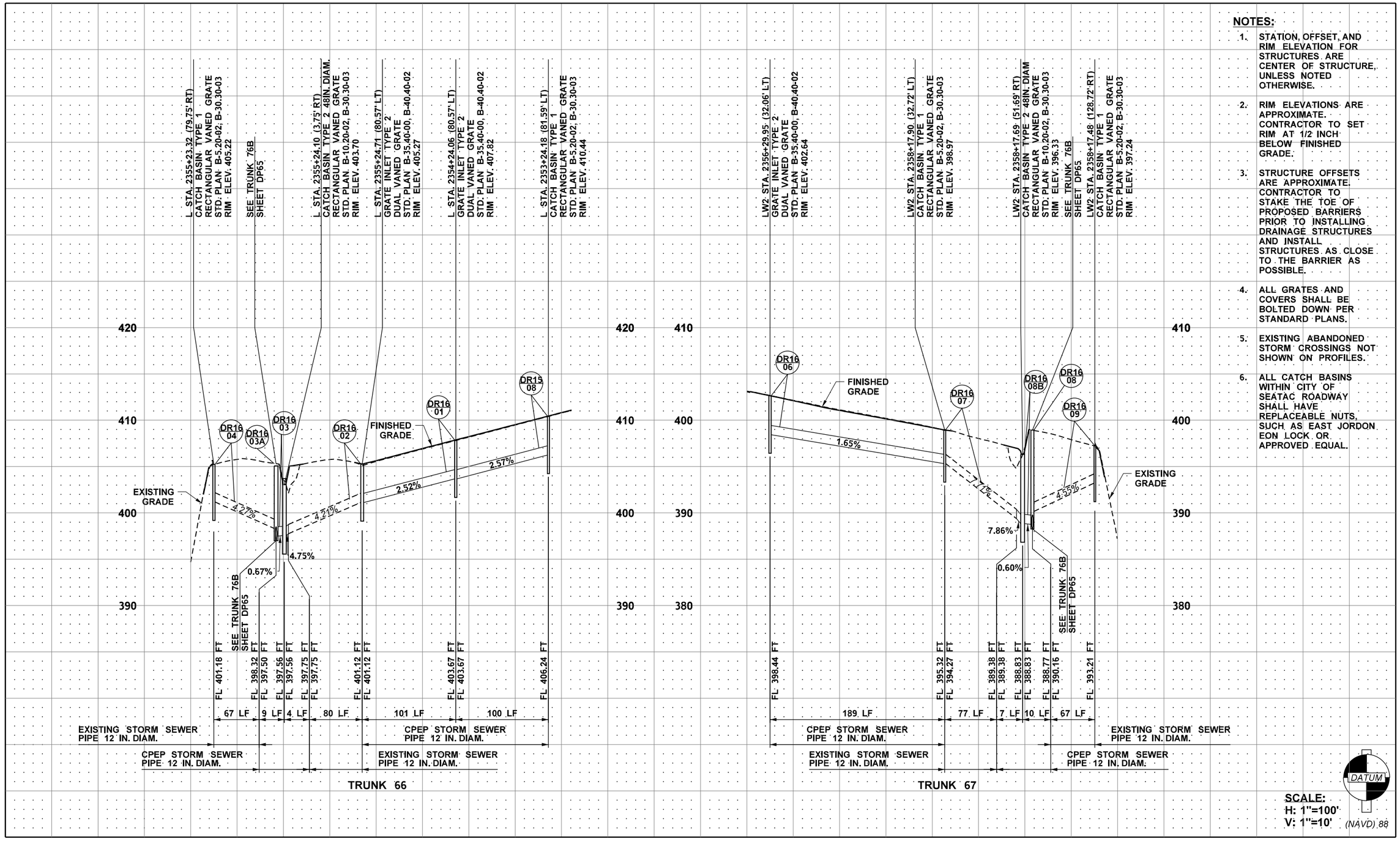
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.
DP59

SHEET
OF
SHEETS



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SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP60.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH				CONTRACT NO.		LOCATION NO.
ENTERED BY	G. RIMANDO				C9424		
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP60

SHEET OF SHEETS

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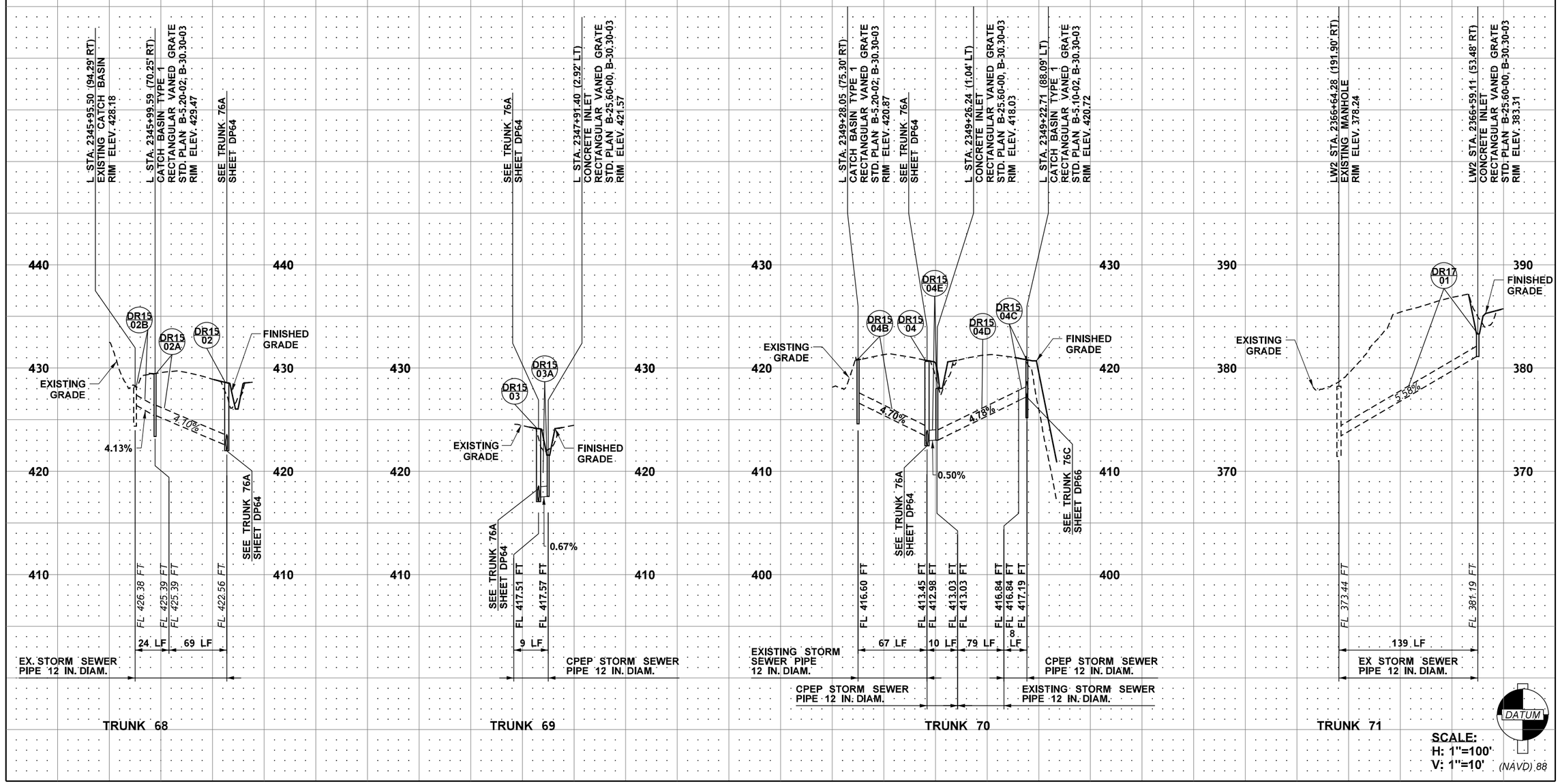

SCALE:
H: 1"=100'
V: 1"=10'

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.
DP61

SHEET
OF
SHEETS

NOTES:

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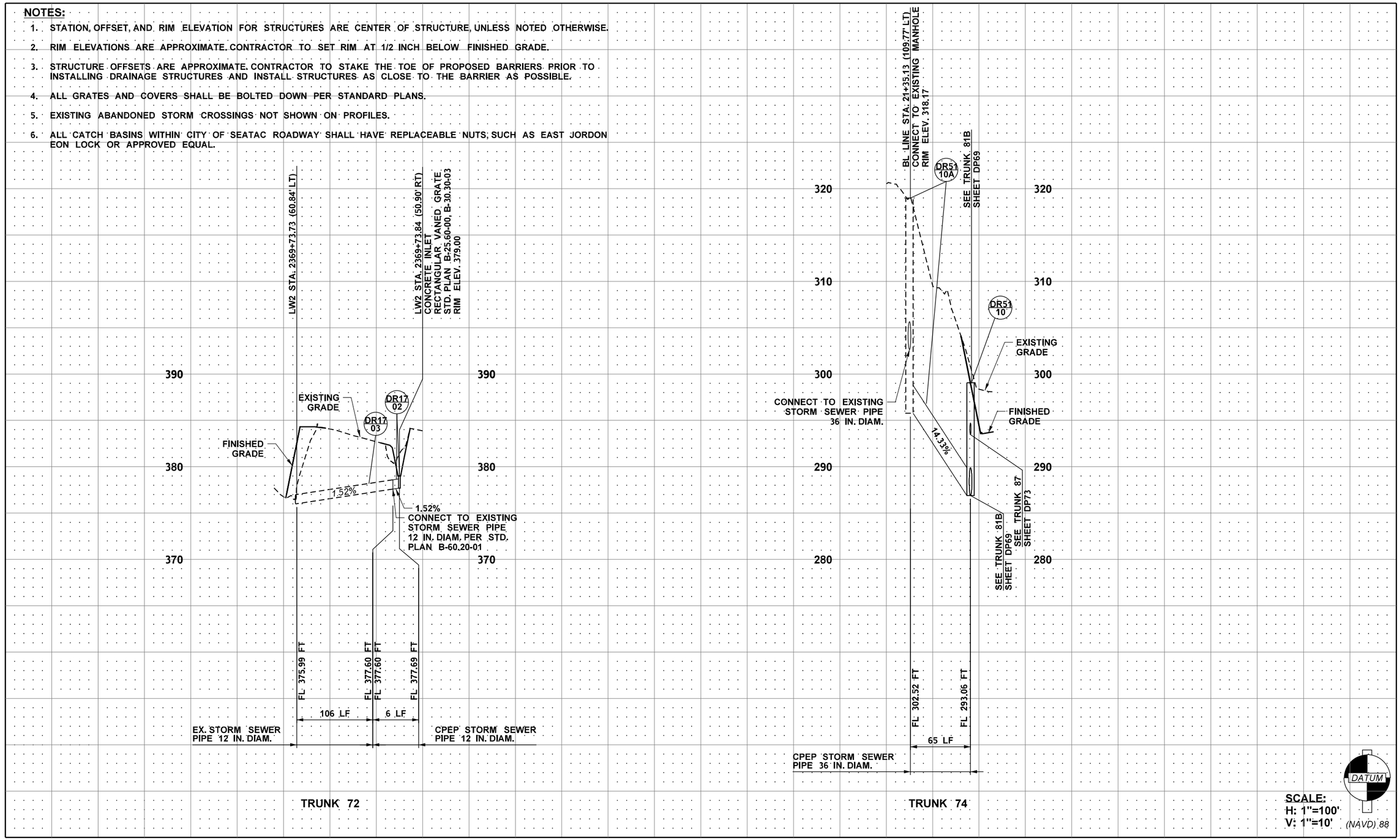

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TIME	1:53:09 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP62

SHEET OF SHEETS

NOTES:

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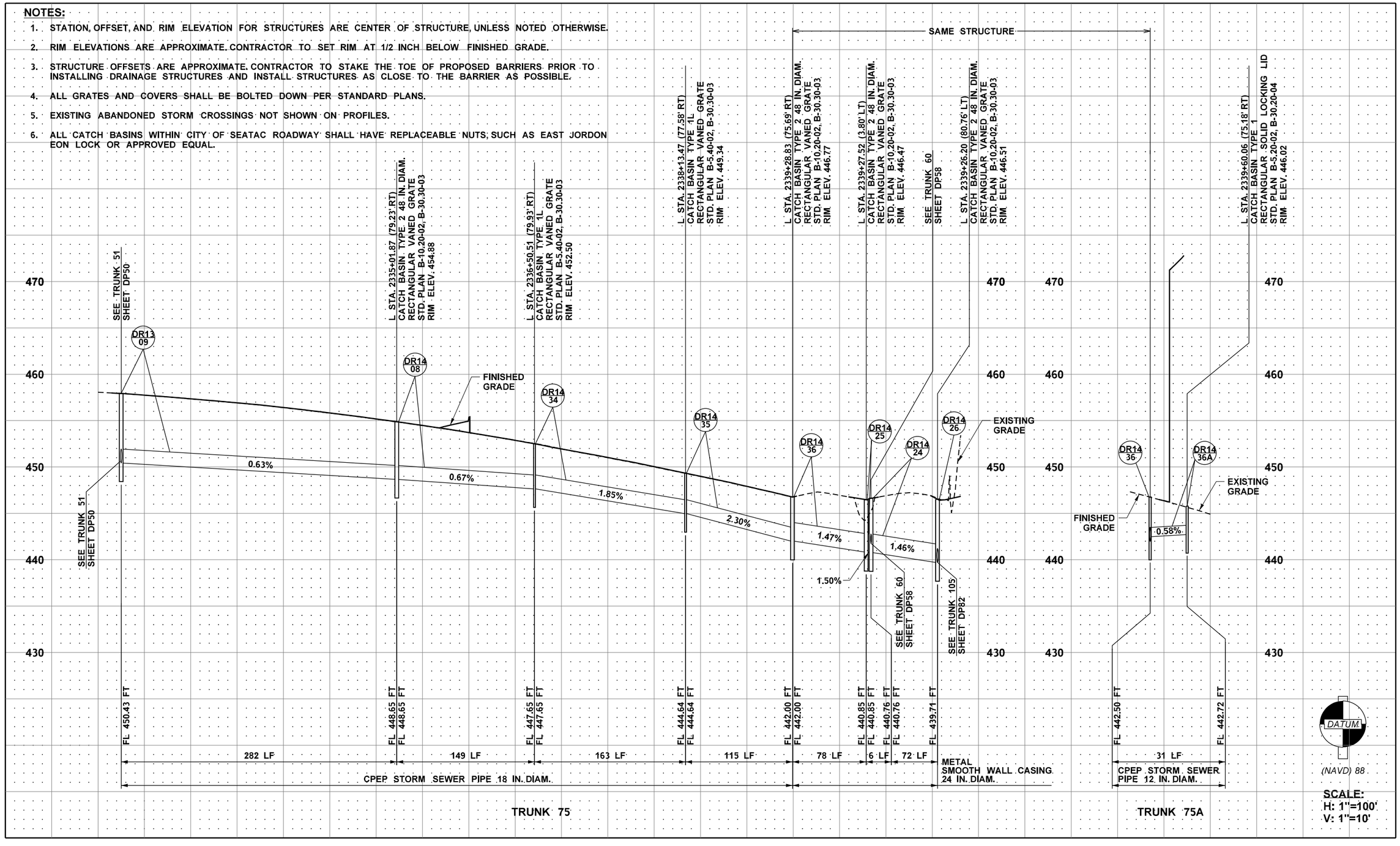

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.
DP63

SHEET
OF
SHEETS

NOTES:

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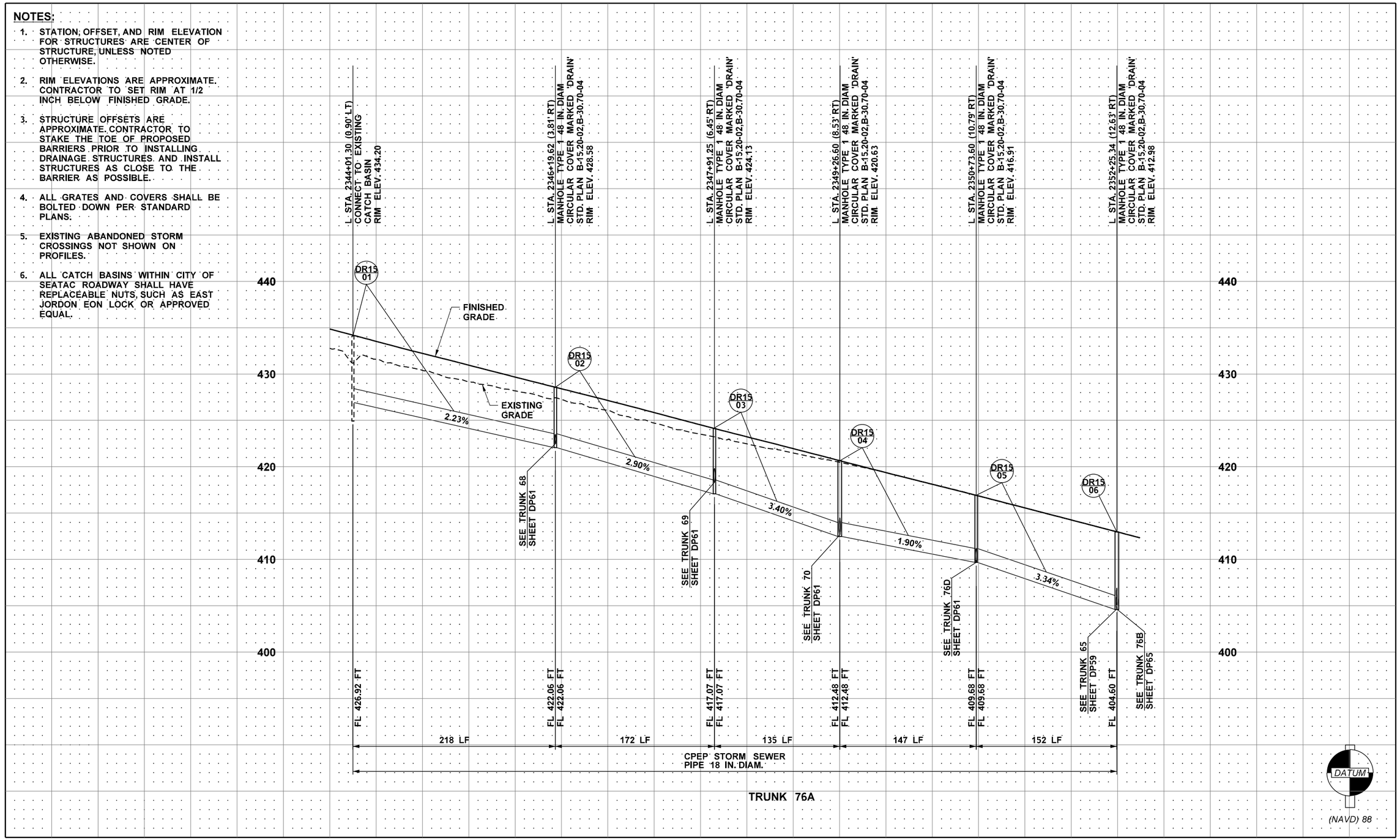

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DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP64

SHEET OF SHEETS

NOTES:

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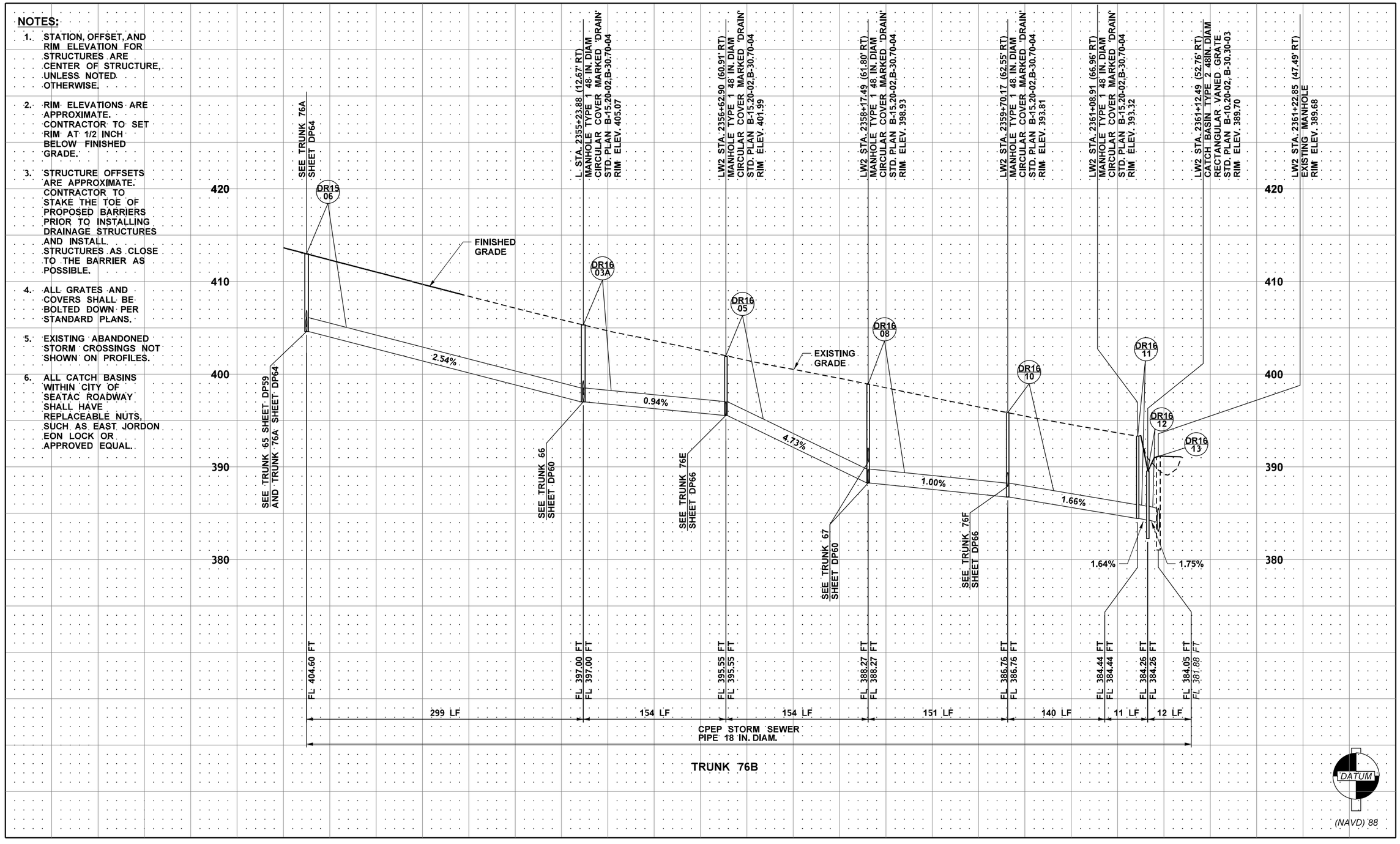

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TIME	1:53:38 PM						
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.
C9424		

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO.	SHEET	OF	SHEETS
DP65			

NOTES:

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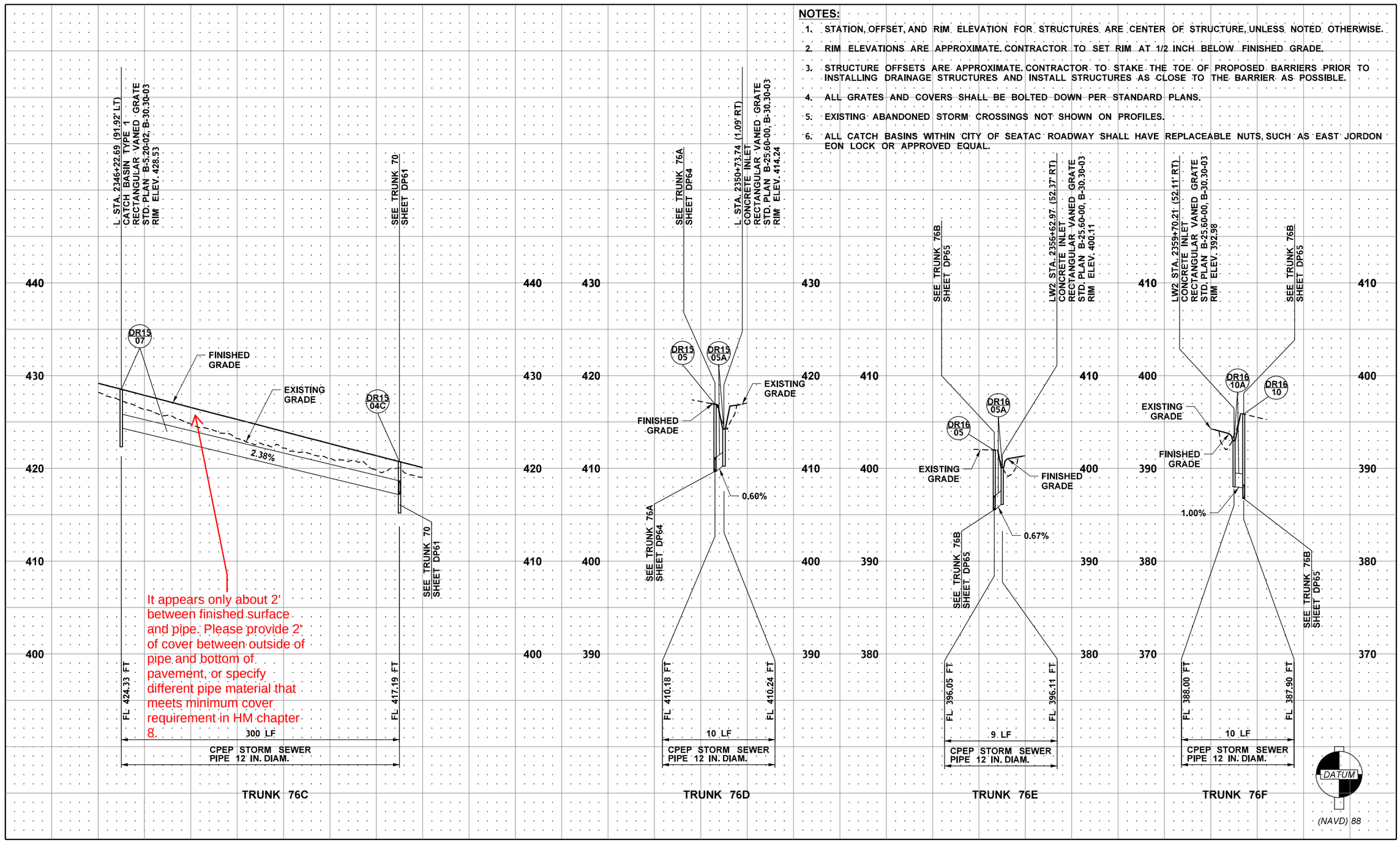

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PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		LOCATION NO.
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP66

SHEET OF SHEETS

NOTES:

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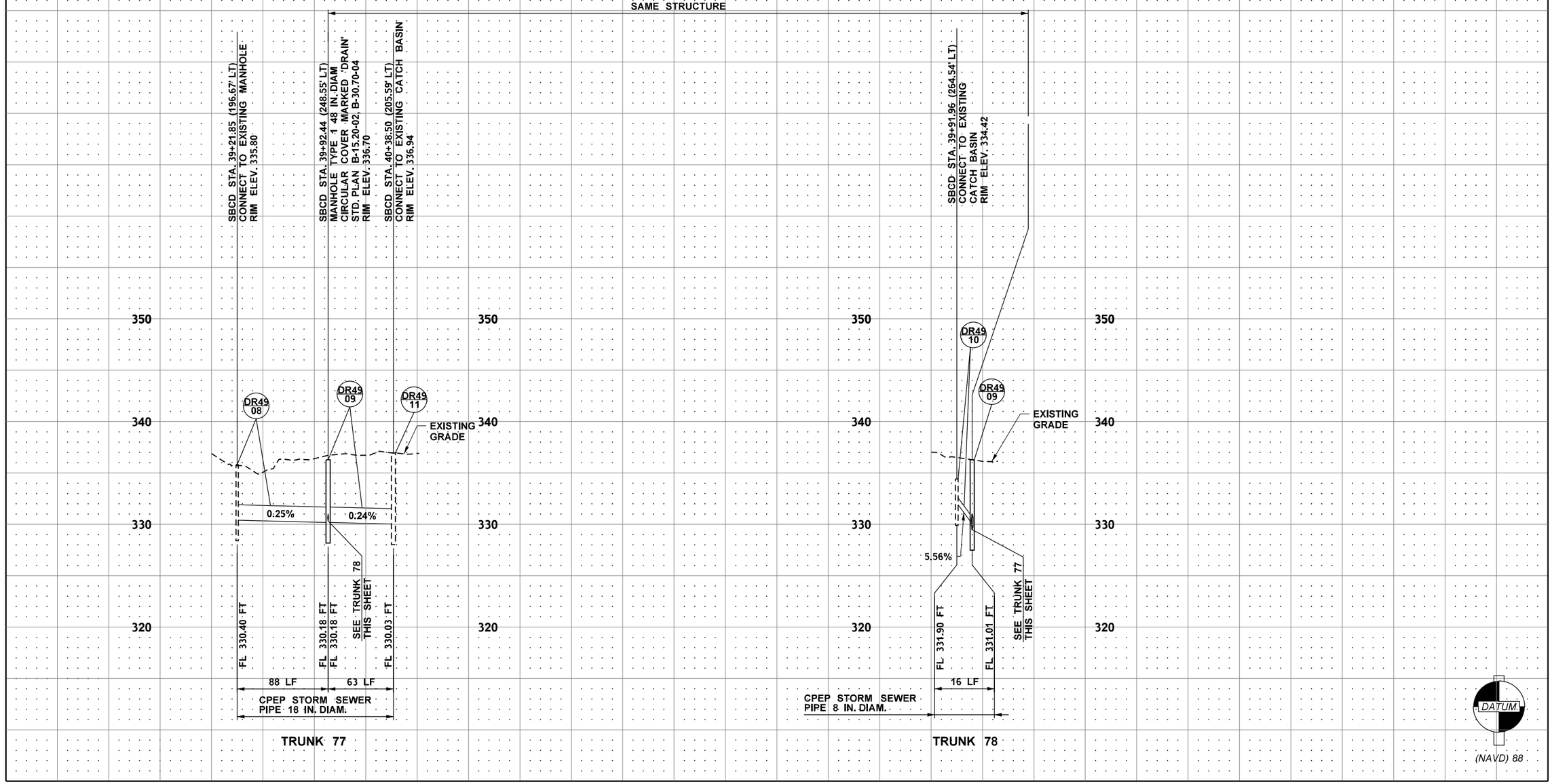

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TIME	1:53:58 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

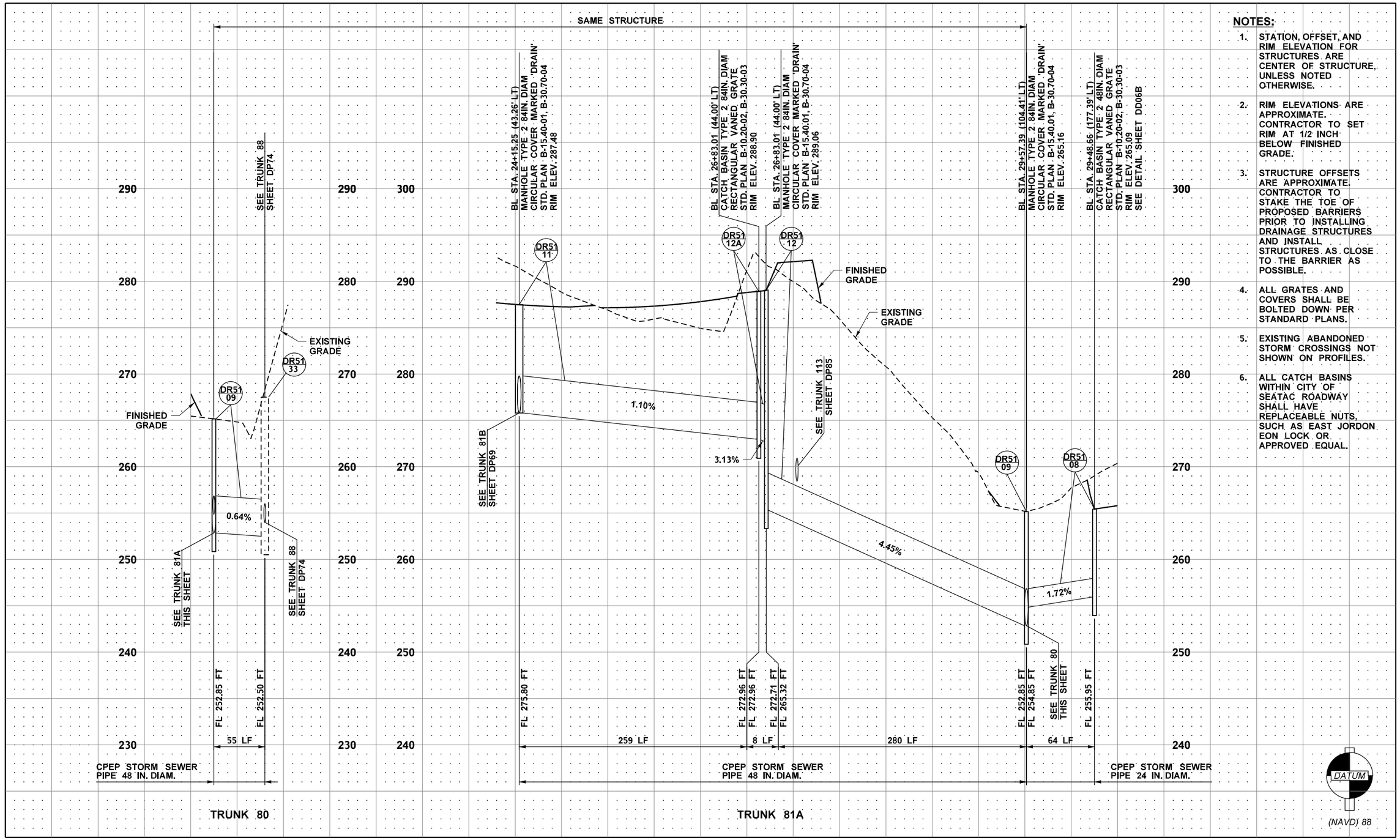
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP67

SHEET OF SHEETS



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TIME	1:54:09 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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NOT FOR CONSTRUCTION

Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP68

SHEET OF SHEETS

NOTES:

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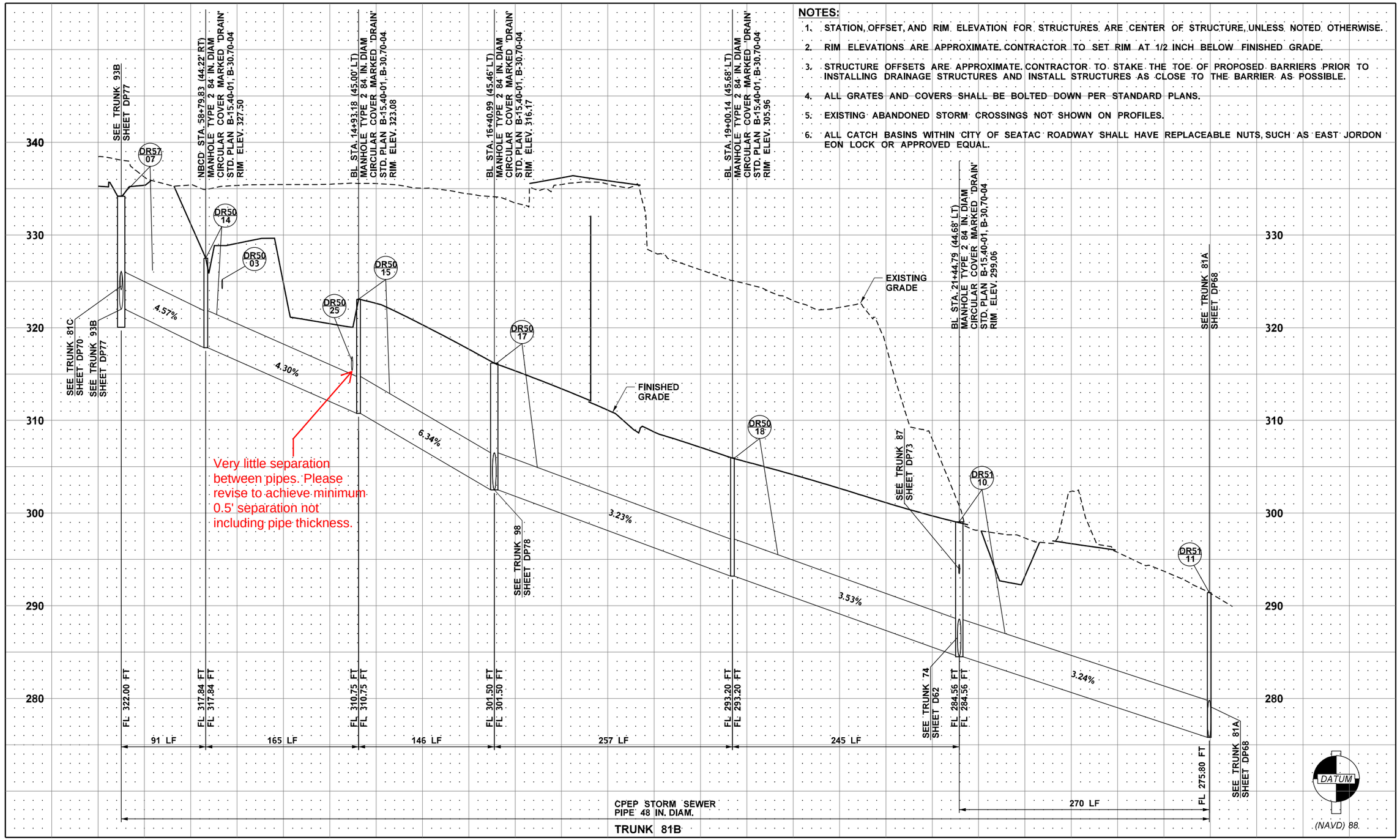

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DATE	12/16/2021				JOB NUMBER			
PLOTTED BY	GlennR							
DESIGNED BY	S. WELCH							
ENTERED BY	G. RIMANDO							
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.	
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424			
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY				

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP69

SHEET OF SHEETS

NOTES:

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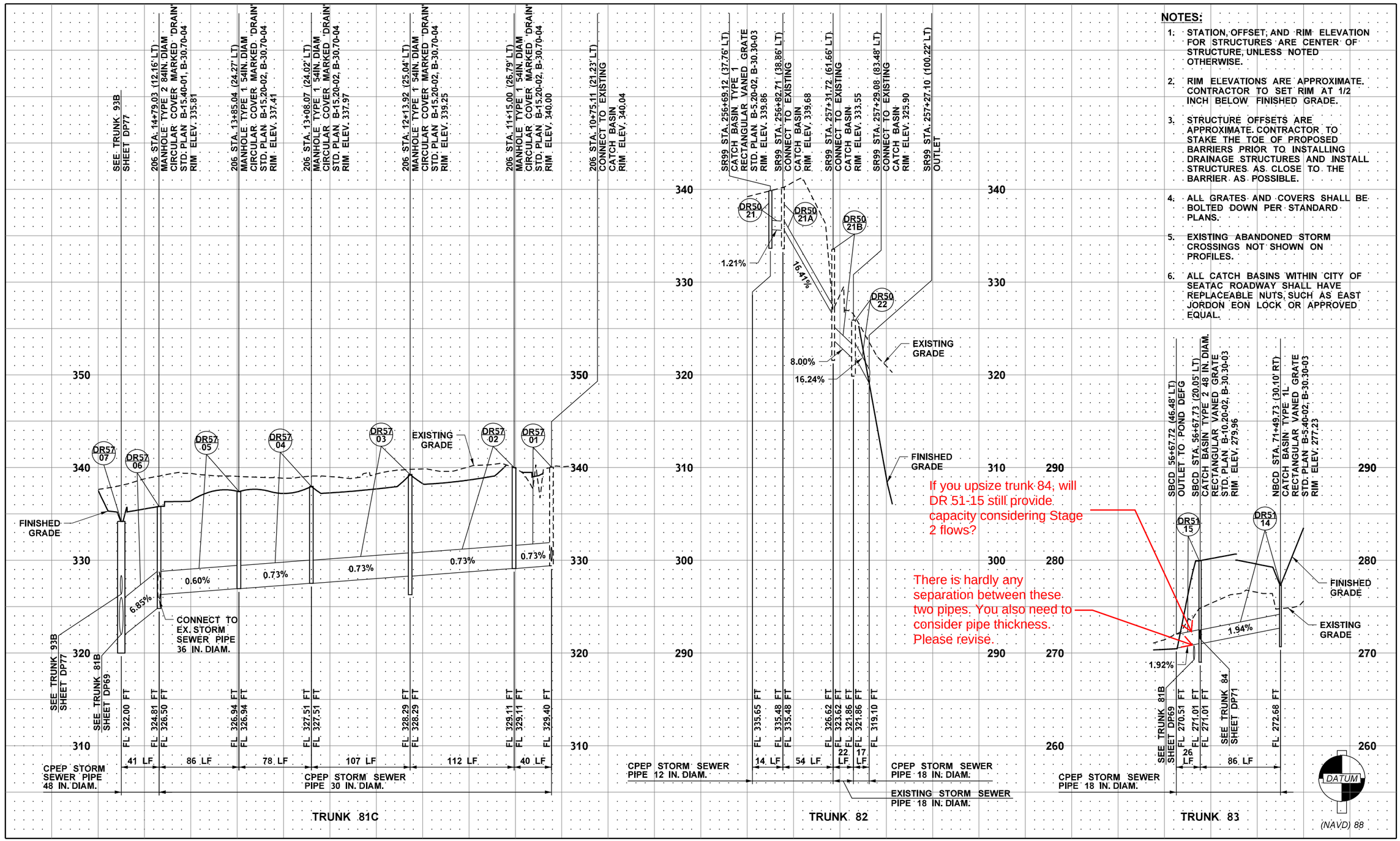

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP70.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	5:50:45 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO				CONTRACT NO. C9424		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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Washington State Department of Transportation

ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP70

SHEET OF SHEETS

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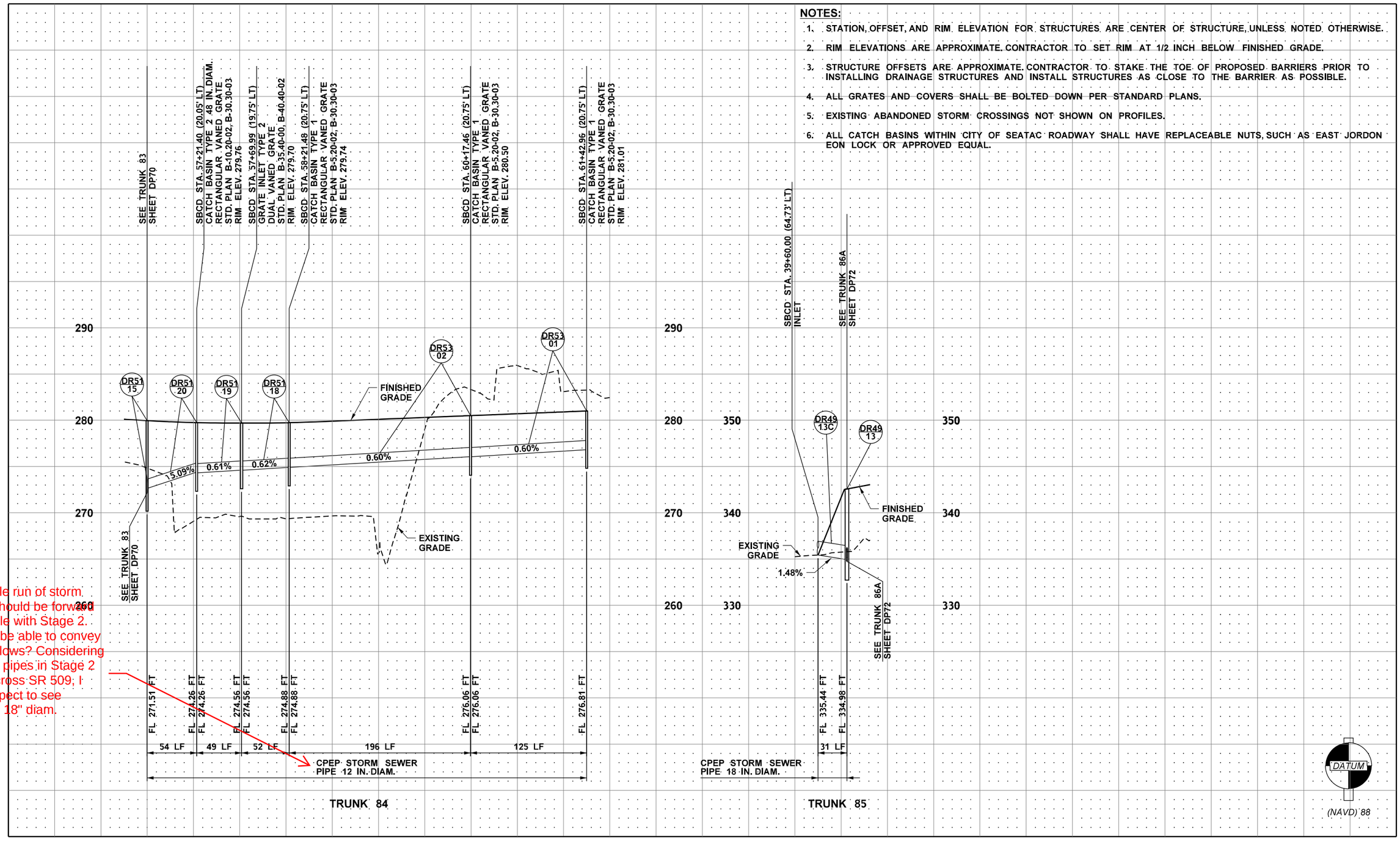

This whole run of storm sewers should be forward compatible with Stage 2. Will they be able to convey Stage 2 flows? Considering there are pipes in Stage 2 that will cross SR 509, I would expect to see minimum 18" diam.

FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP71.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:54:34 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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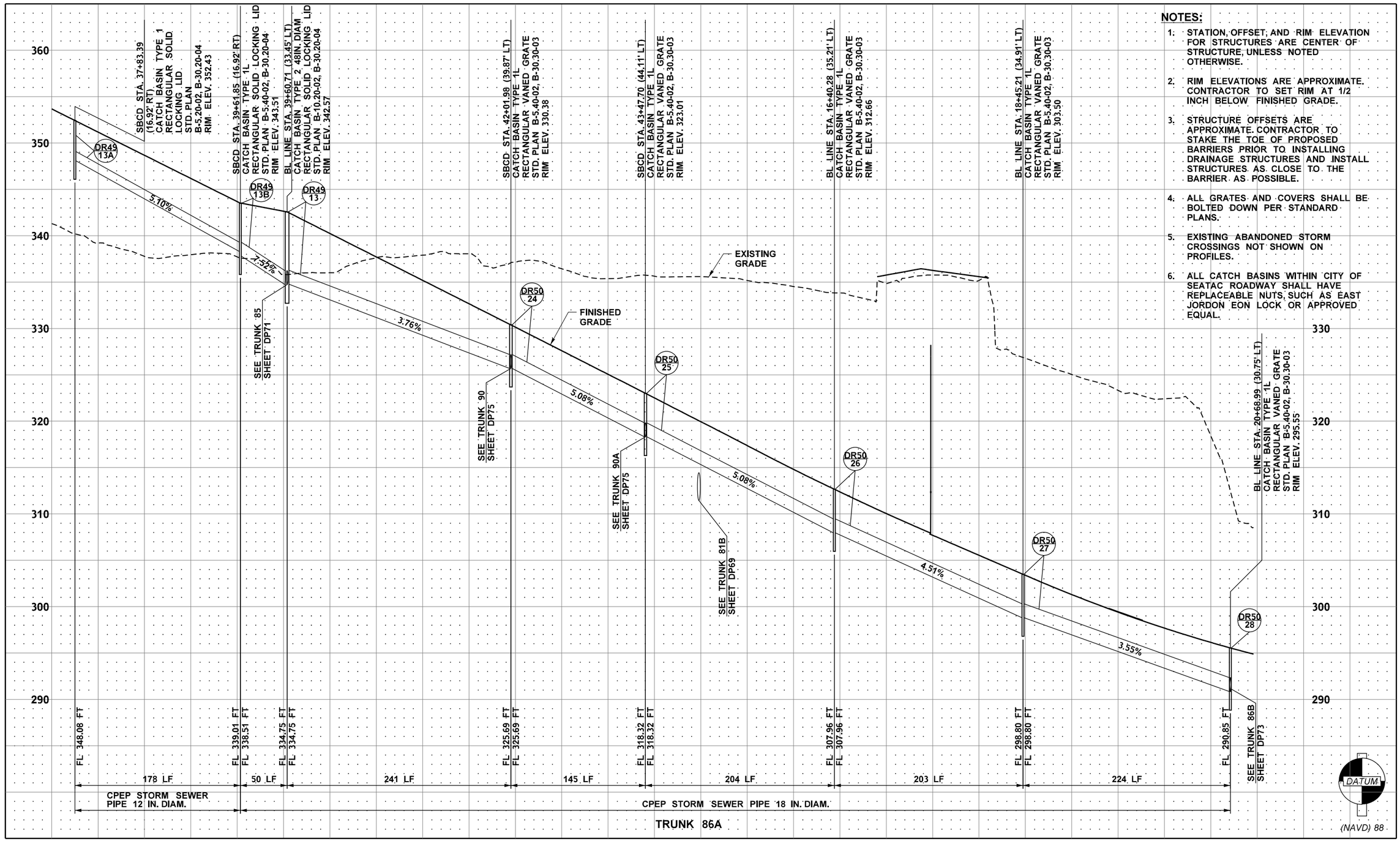
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP71

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP72.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:54:42 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP72

SHEET OF SHEETS

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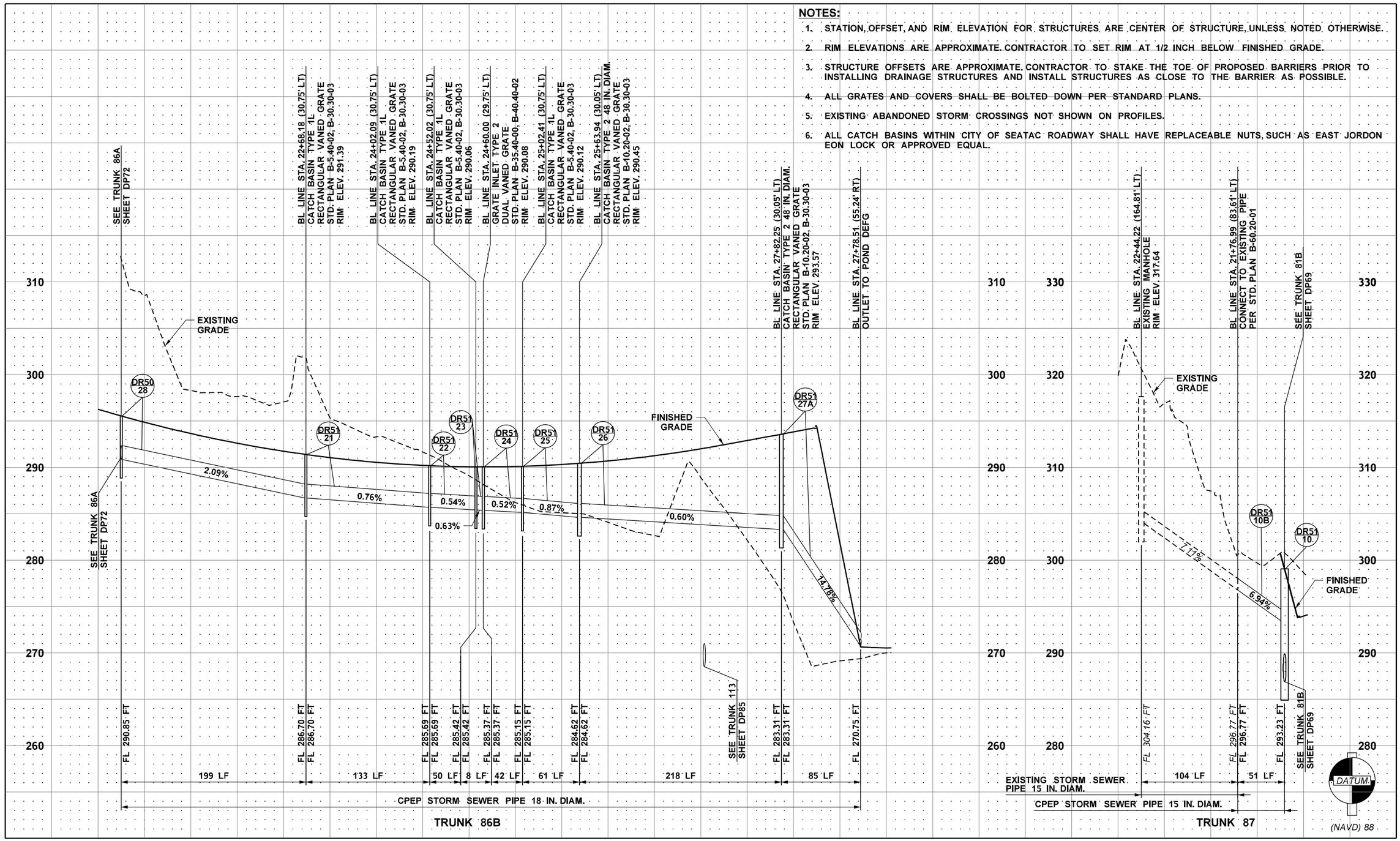

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TIME	6:14:15 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SCOTT A. MESIC — STATE OF WASHINGTON — 39377 — REGISTERED PROFESSIONAL ENGINEER

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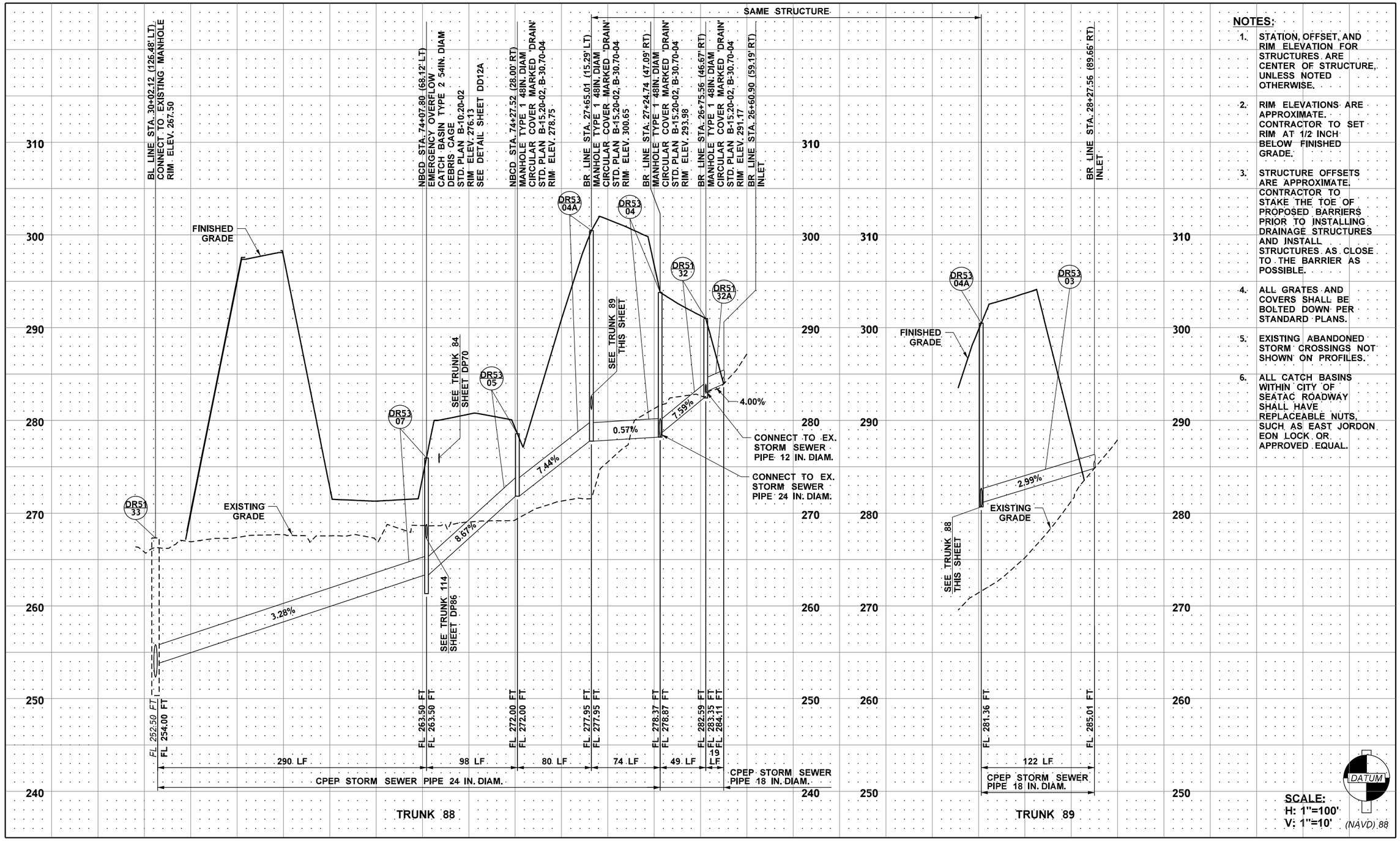
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP73

SHEET OF SHEETS



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SCALE:
H: 1"=100'
V: 1"=10'

FILE NAME	c:\pwworking\jacobs_b&i\jeg_ex-welchs\d0321956\C9424_PR_DP74.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:04:03 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP74

SHEET OF SHEETS

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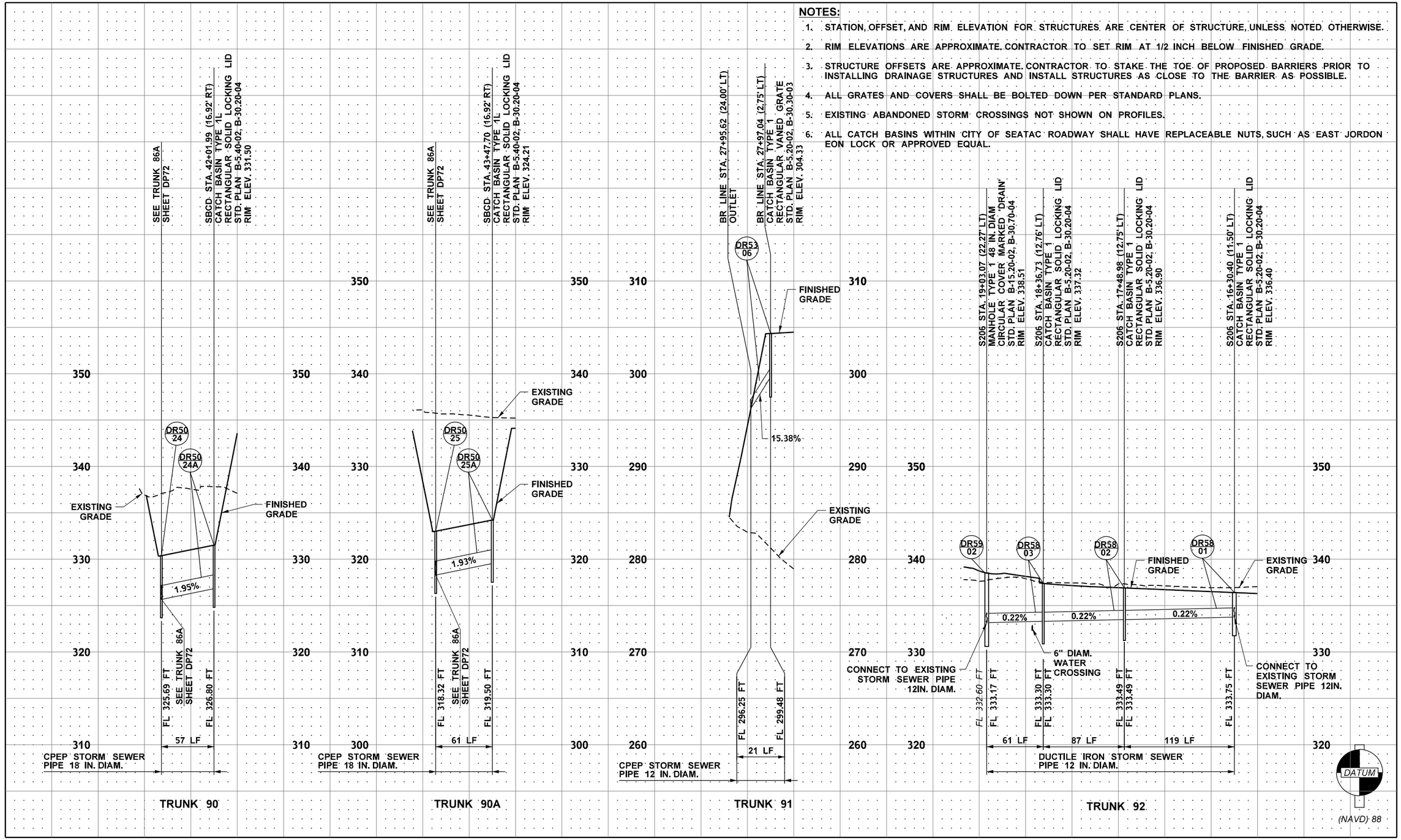

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP75.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:04:44 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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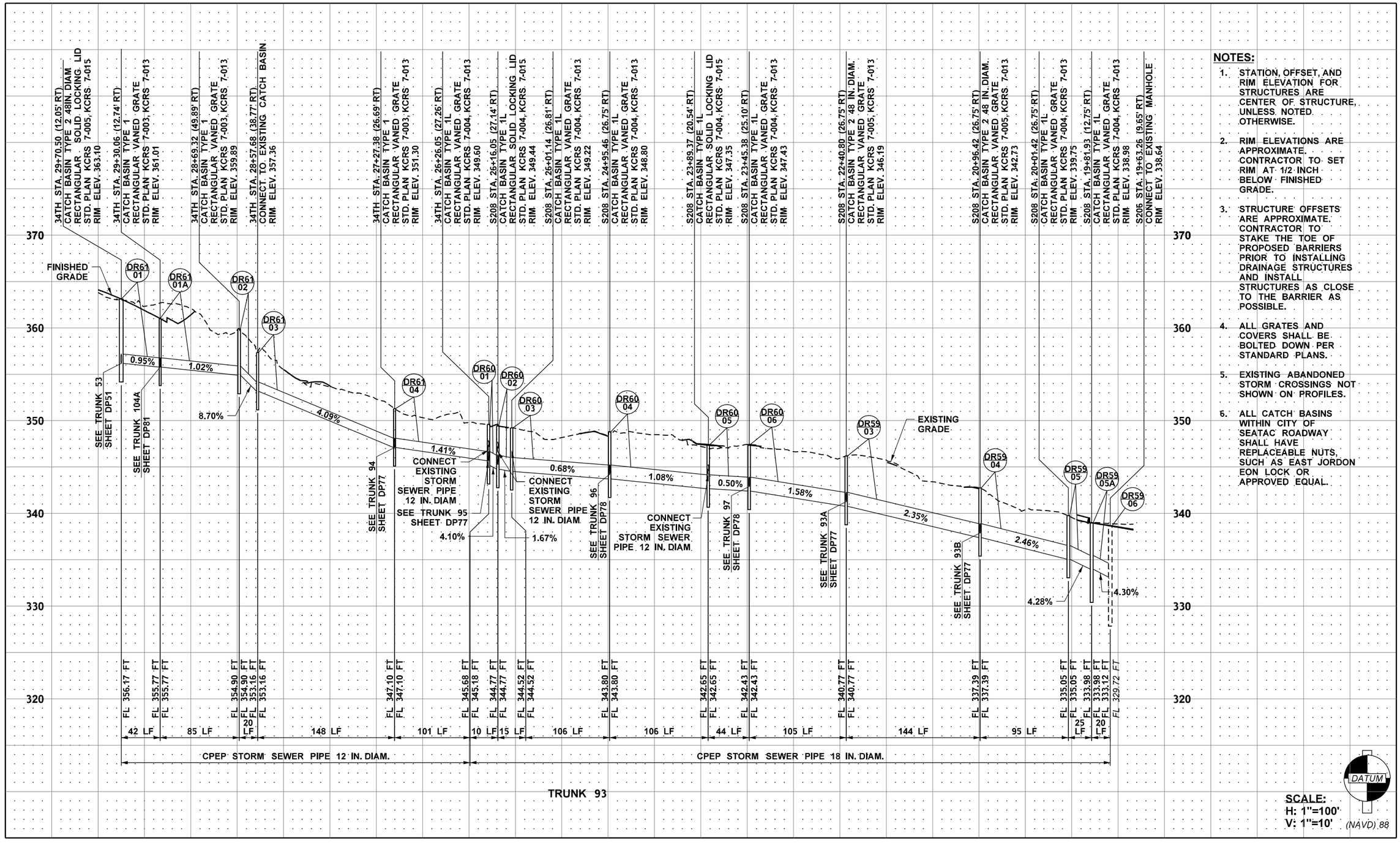
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP75

SHEET OF SHEETS



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SCALE:
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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP76.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	7:08:05 PM				JOB NUMBER		
DATE	12/16/2021						
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP76

SHEET OF SHEETS

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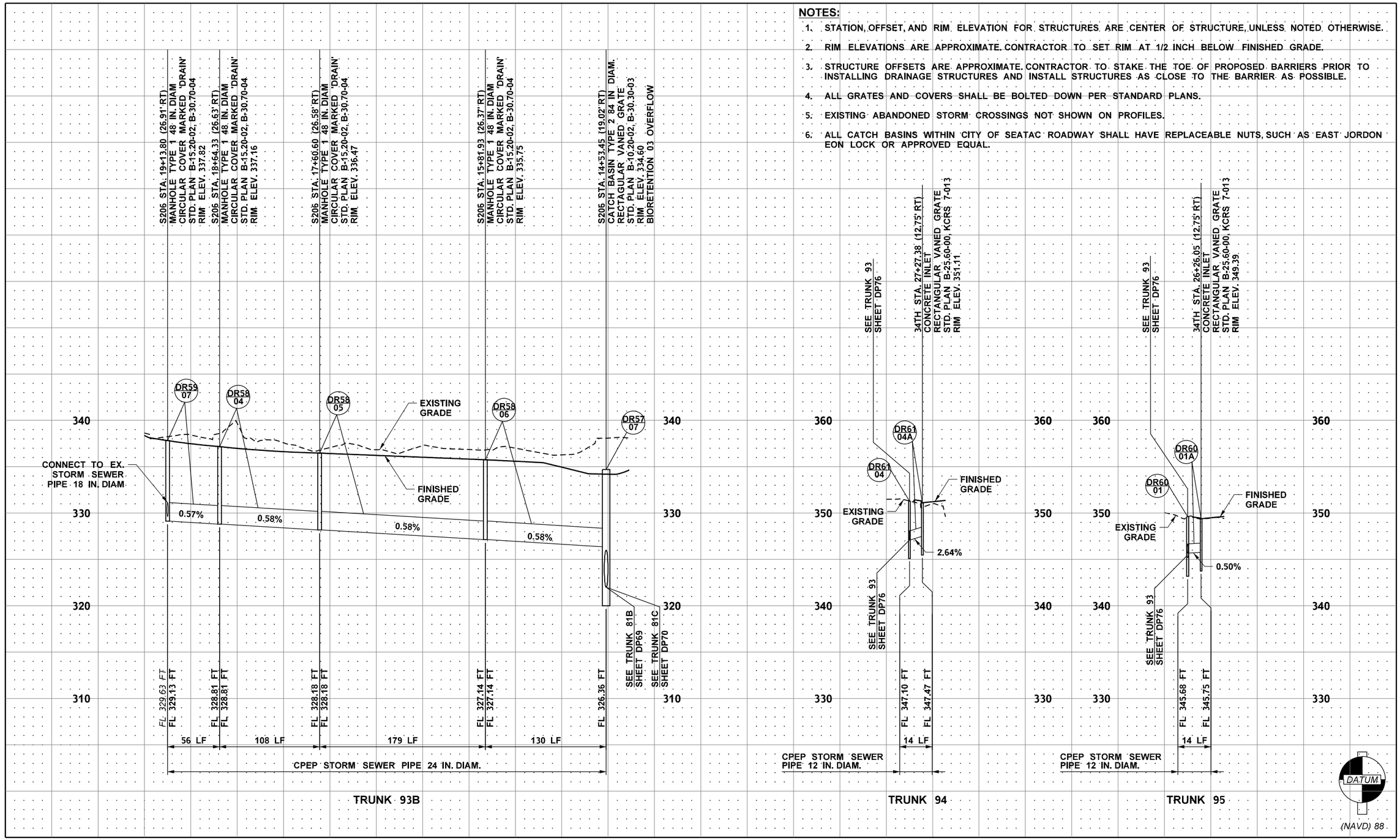

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TIME	5:07:36 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	NickJ						
DESIGNED BY	S. WELCH				CONTRACT NO.		LOCATION NO.
ENTERED BY	G. RIMANDO				C9424		
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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SCOTT A. MARCH — 39377 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON

Washington State Department of Transportation

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NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP77

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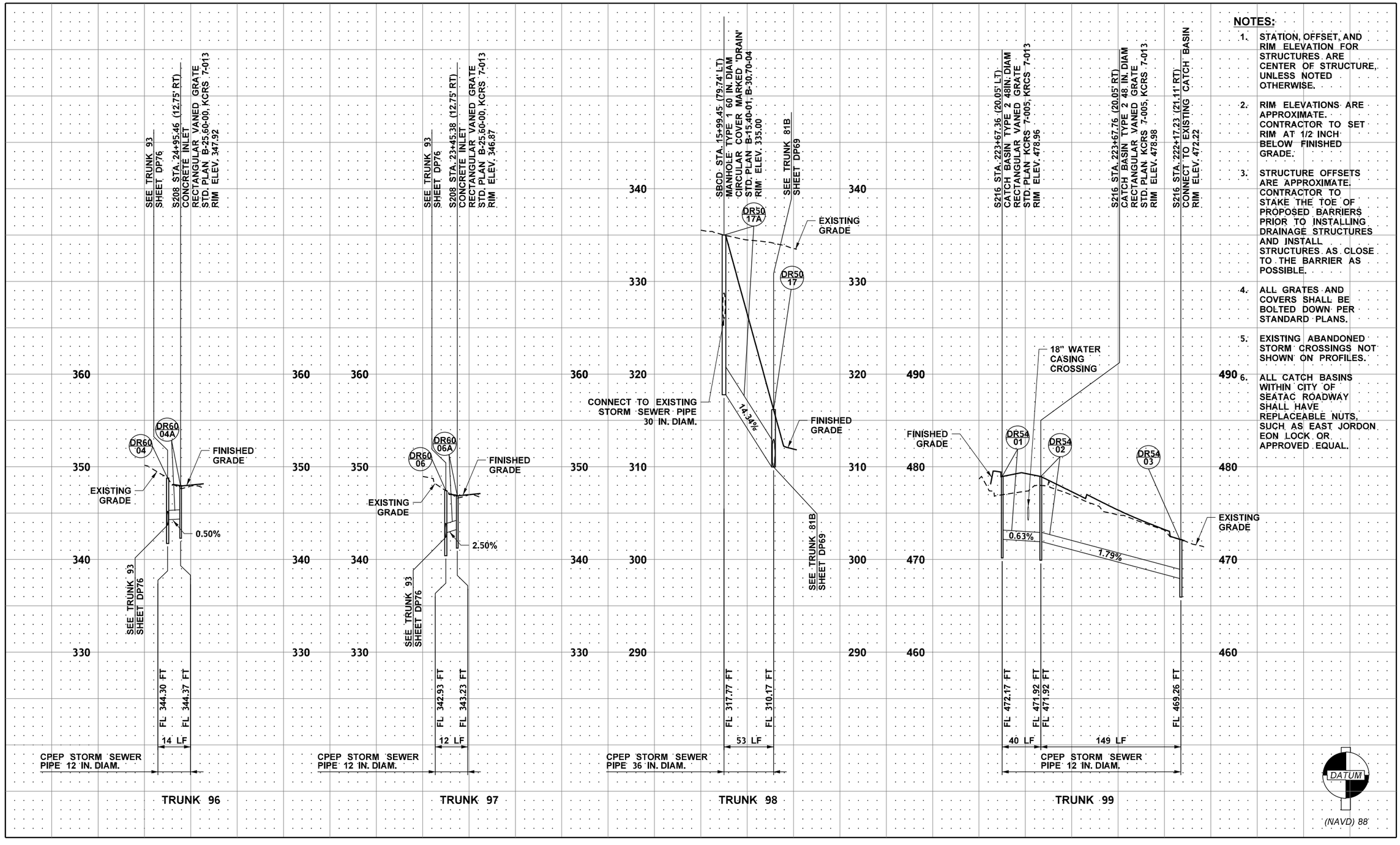

FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP78.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:55:33 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP78

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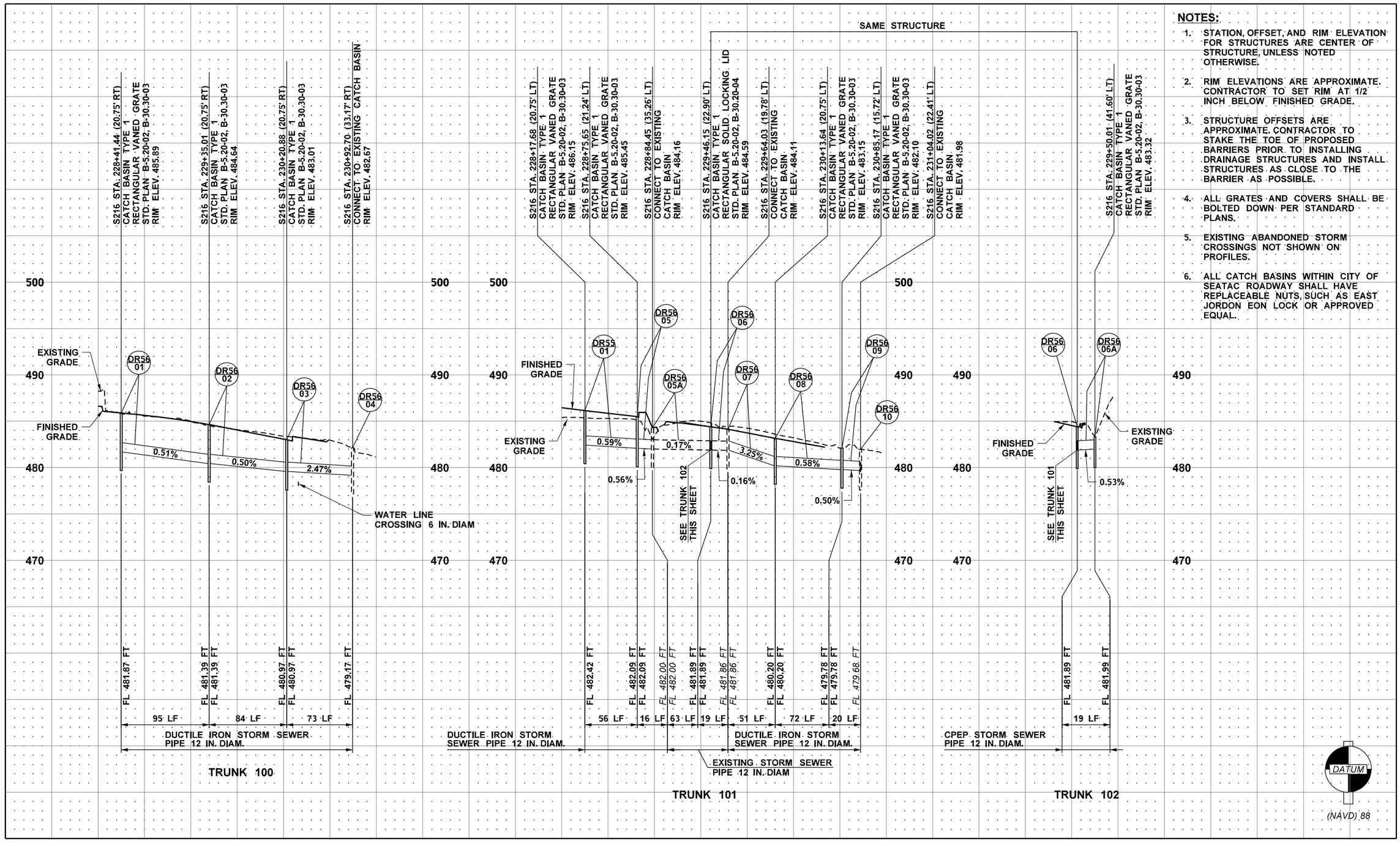

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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP79.dgn			REGION NO. 10	STATE WASH
TIME	1:55:42 PM				
DATE	12/16/2021			JOB NUMBER	FED.AID PROJ.NO.
PLOTTED BY	GlennR				
DESIGNED BY	S. WELCH				
ENTERED BY	G. RIMANDO				
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21	CONTRACT NO. C9424	LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		
REGIONAL ADM.	J. WHITE	REVISION	DATE BY		

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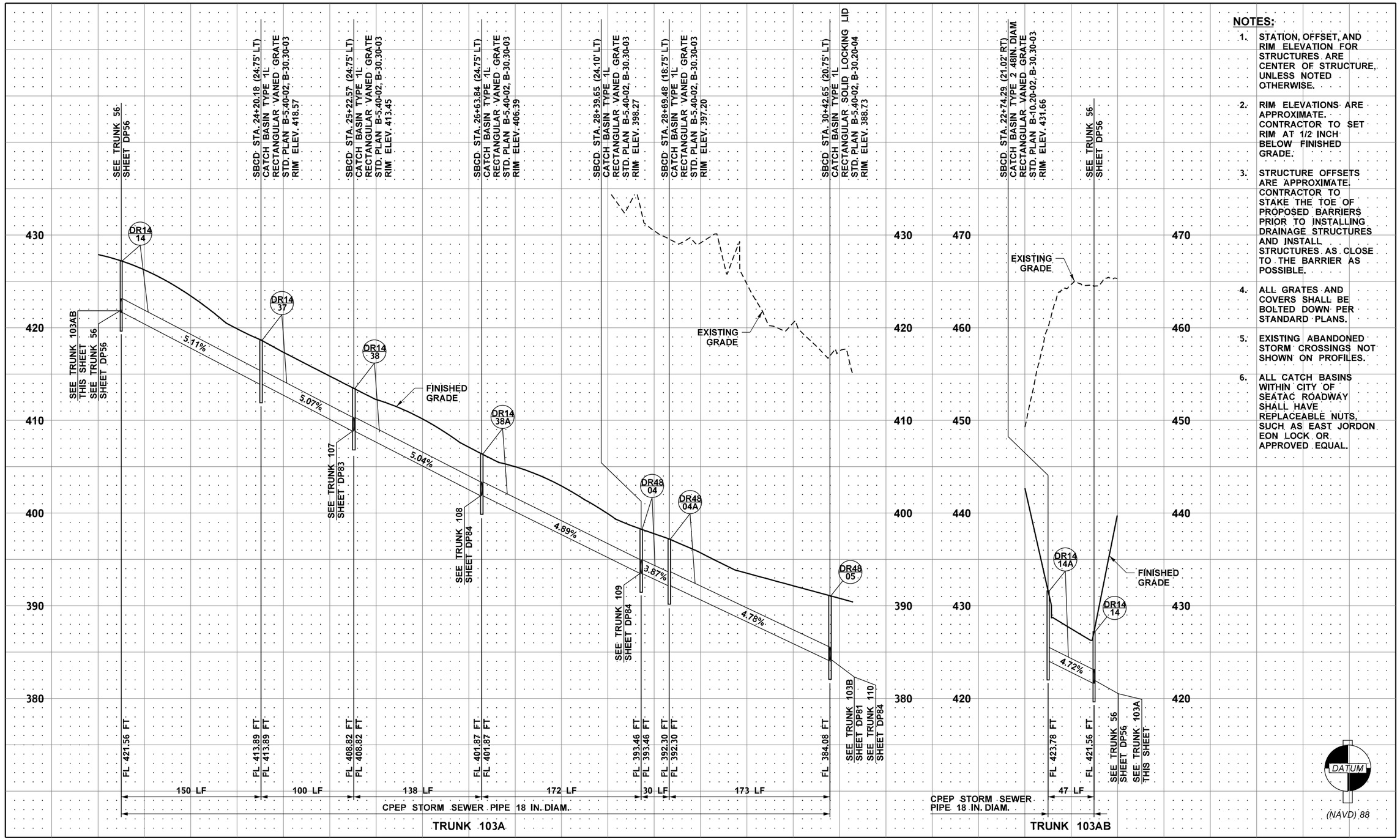
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP79

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&i\pw-rlmandgr\d0321956\C9424_PR_DP80.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:55:50 PM						
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO				CONTRACT NO. C9424		LOCATION NO.
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21				
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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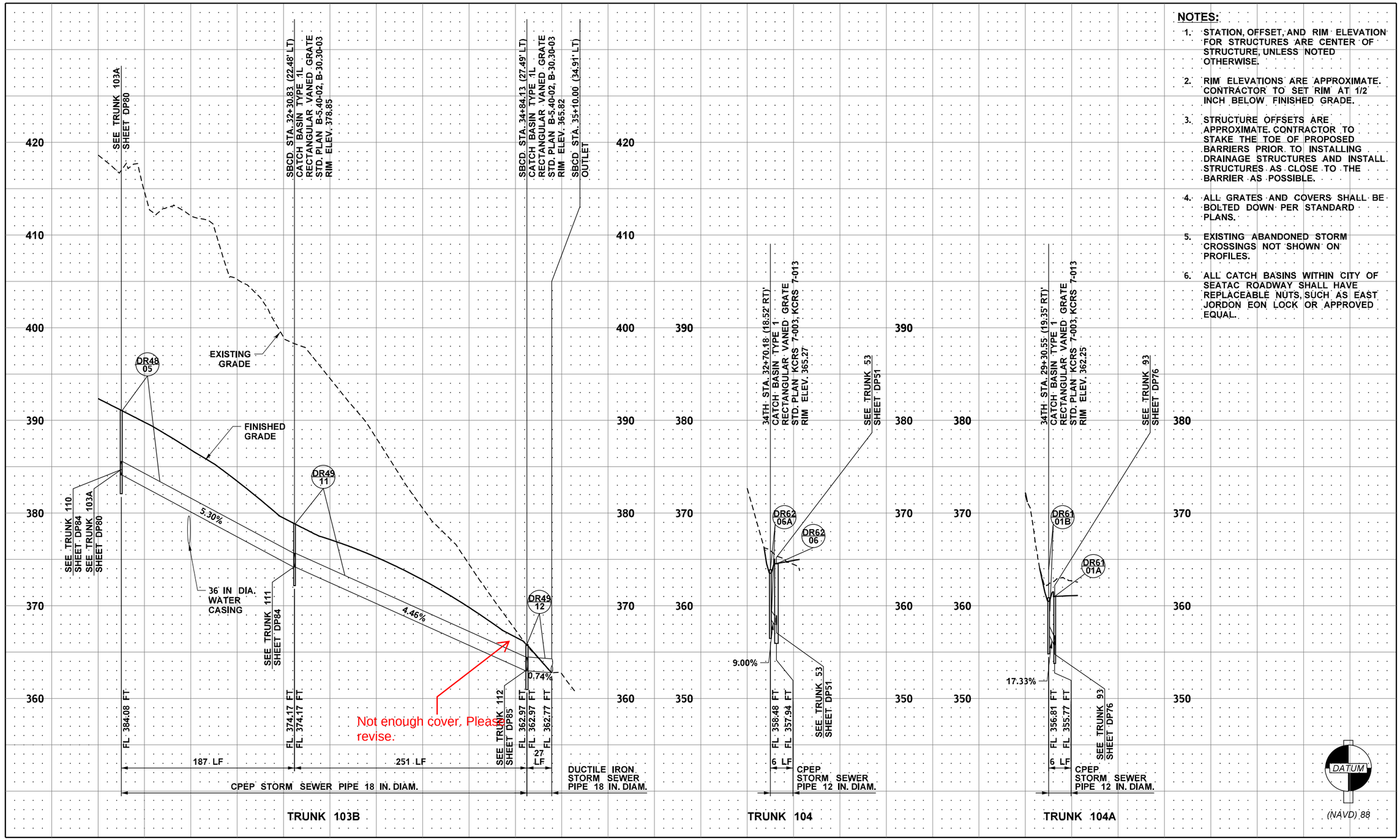
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP80

SHEET OF SHEETS



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TIME	1:55:59 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

PRELIMINARY
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Washington State Department of Transportation

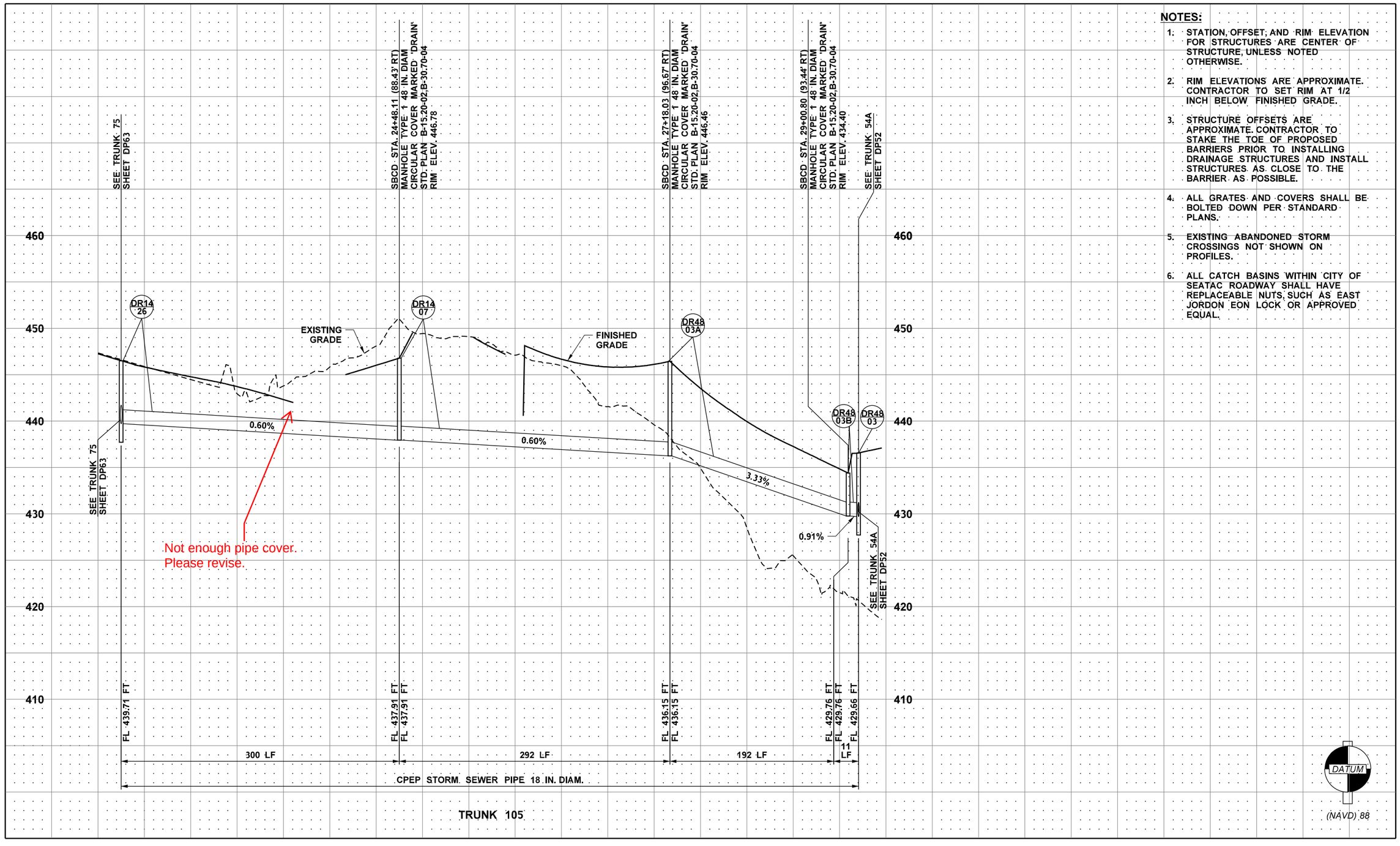
ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP81

SHEET OF SHEETS



NOTES:

1. STATION, OFFSET, AND RIM ELEVATION FOR STRUCTURES ARE CENTER OF STRUCTURE, UNLESS NOTED OTHERWISE.
2. RIM ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO SET RIM AT 1/2 INCH BELOW FINISHED GRADE.
3. STRUCTURE OFFSETS ARE APPROXIMATE. CONTRACTOR TO STAKE THE TOE OF PROPOSED BARRIERS PRIOR TO INSTALLING DRAINAGE STRUCTURES AND INSTALL STRUCTURES AS CLOSE TO THE BARRIER AS POSSIBLE.
4. ALL GRATES AND COVERS SHALL BE BOLTED DOWN PER STANDARD PLANS.
5. EXISTING ABANDONED STORM CROSSINGS NOT SHOWN ON PROFILES.
6. ALL CATCH BASINS WITHIN CITY OF SEATAC ROADWAY SHALL HAVE REPLACEABLE NUTS, SUCH AS EAST JORDON EON LOCK OR APPROVED EQUAL.

FILE NAME	c:\pwworking\jacobs_b&i\jeg_ex-welchs\d0321956\C9424_PR_DP82.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:09:17 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC	REV B - FINAL REVIEW	12/03/21		CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - PRELIMINARY REVIEW	7/23/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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ATKINSON / Jacobs CONSTRUCTION

SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP82

SHEET OF SHEETS

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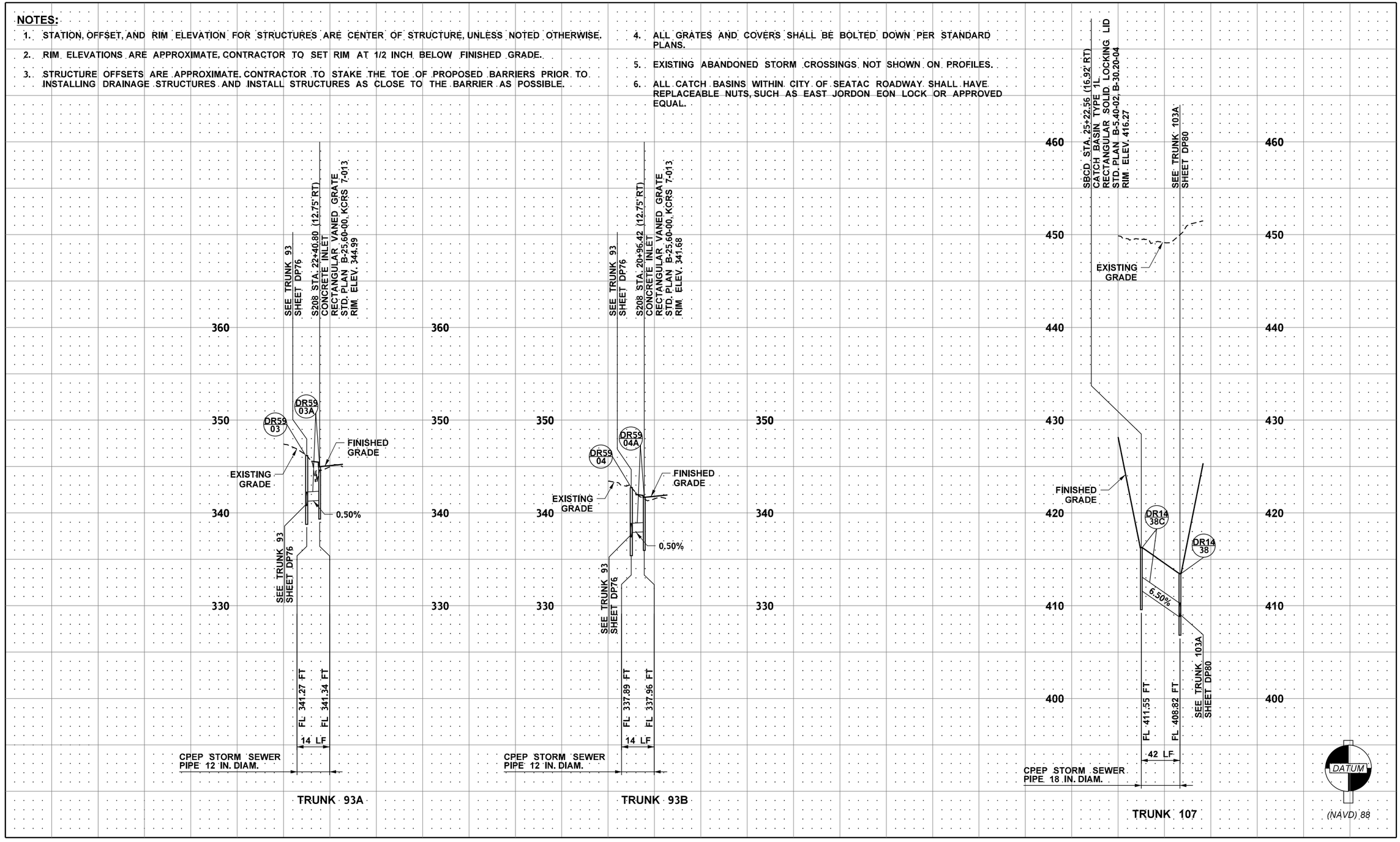

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TIME	1:56:18 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO				CONTRACT NO.	LOCATION NO.	
CHECKED BY	S. MESIC						
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21		C9424		
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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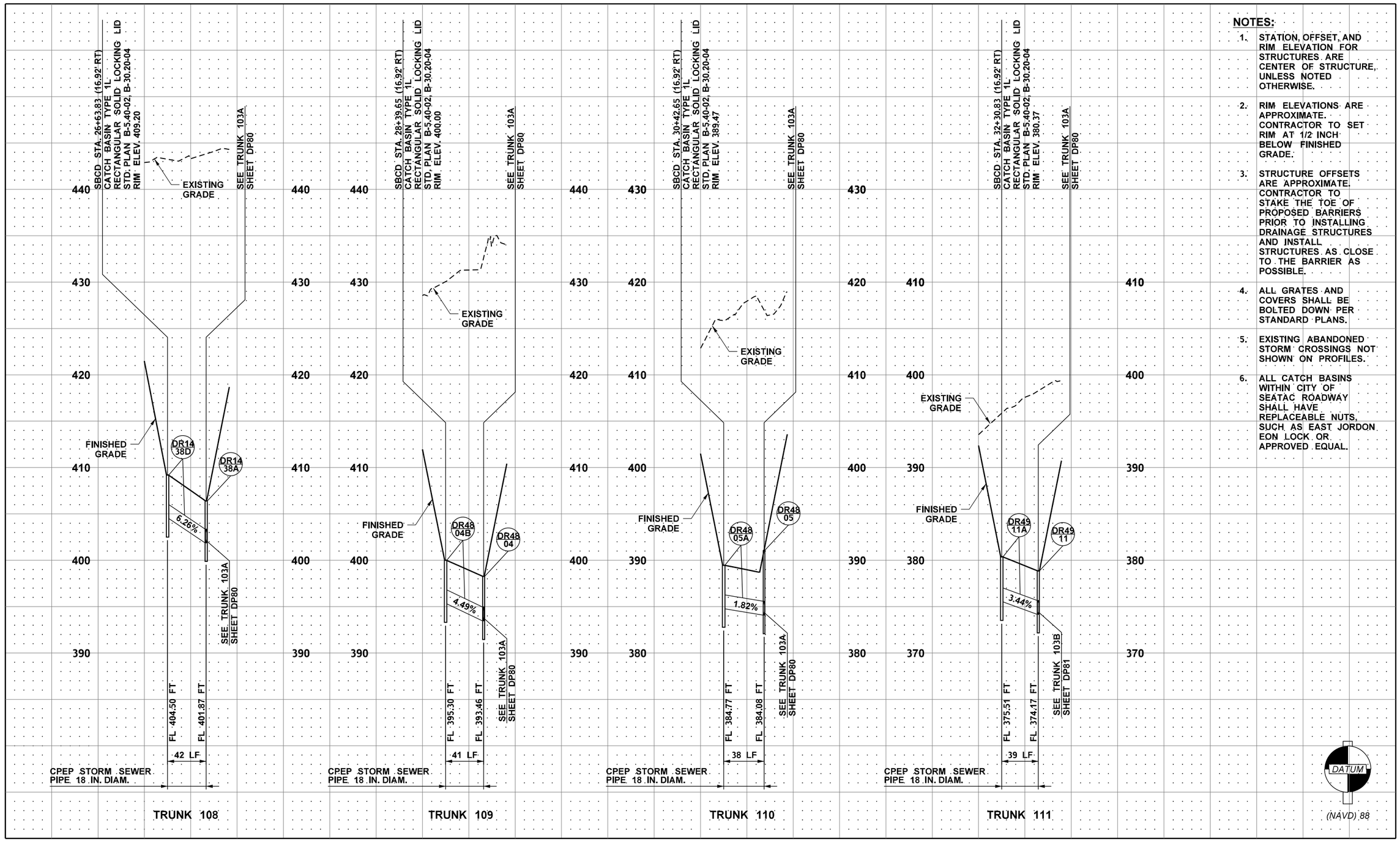
SR509
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP83

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP84.dgn						
TIME	1:56:26 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/16/2021						
PLOTTED BY	GlennR				JOB NUMBER		
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC				CONTRACT NO. C9424		LOCATION NO.
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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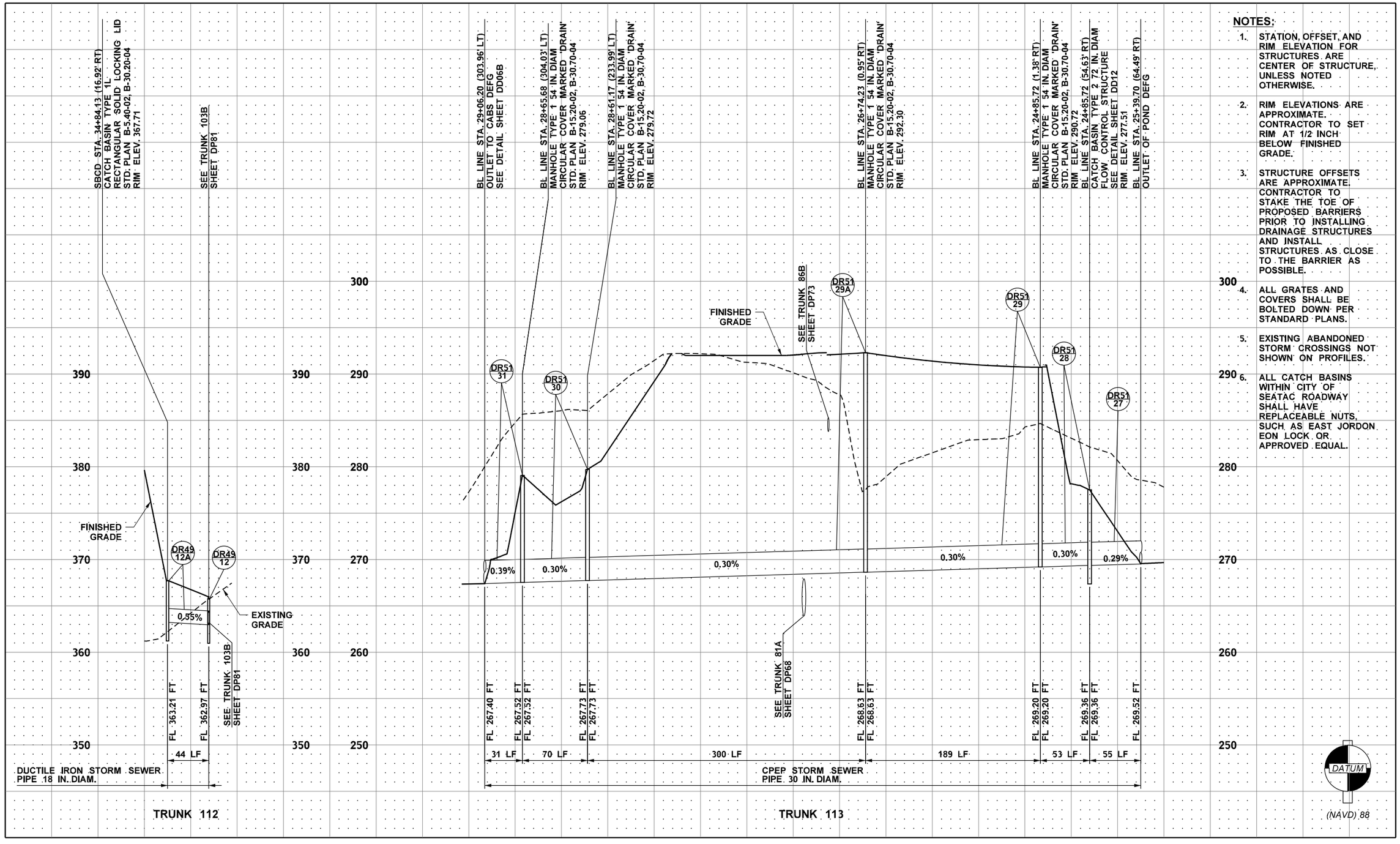
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP84

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&I\jeg_ex-welchs\d0321956\C9424_PR_DP85.dgn						
TIME	6:11:00 PM						
DATE	12/16/2021						
PLOTTED BY	StephanieW						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO						
CHECKED BY	S. MESIC						
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.
C9424		

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SCOTT A. MESIC — 38377 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON

Washington State Department of Transportation

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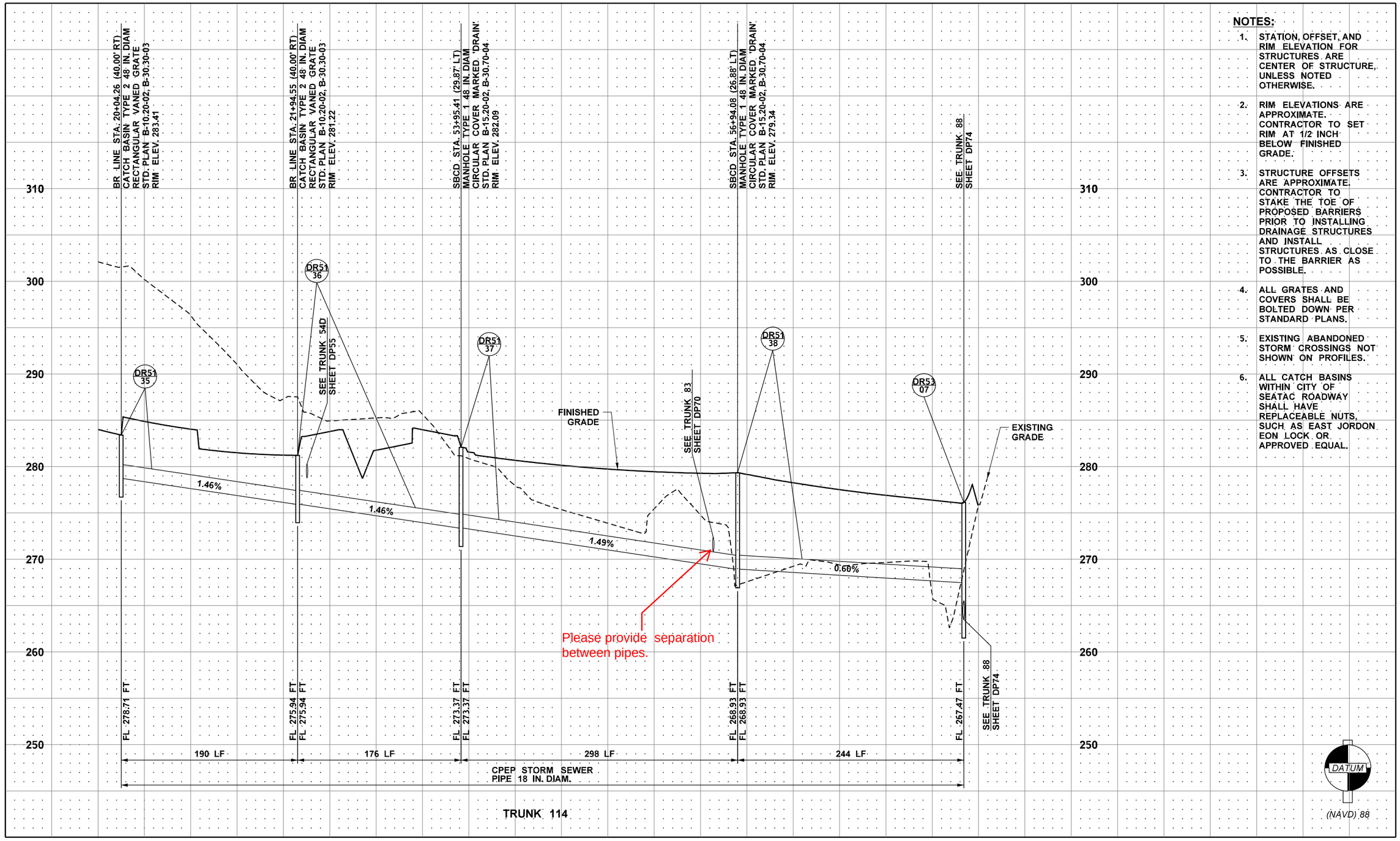
I-5 TO 24TH AVENUE S
NEW EXPRESSWAY

DRAINAGE PROFILE

PLAN REF. NO. DP85

SHEET OF SHEETS



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FILE NAME	c:\pwworking\jacobs_b&l\pw-rlmandgr\d0321956\C9424_PR_DP86.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:56:44 PM				10	WASH	
DATE	12/16/2021				JOB NUMBER		
PLOTTED BY	GlennR						
DESIGNED BY	S. WELCH						
ENTERED BY	G. RIMANDO				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MESIC				C9424		
PROJ. ENGR.	A. CHEPEL	REV A - FINAL REVIEW	12/03/21				
REGIONAL ADM.	J. WHITE	REVISION	DATE	BY			

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PLAN REF. NO. DP86

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