

NORDIC VALLEY PHASE 1B
CONSTRUCTION DRAWINGS
WEBER COUNTY, UTAH

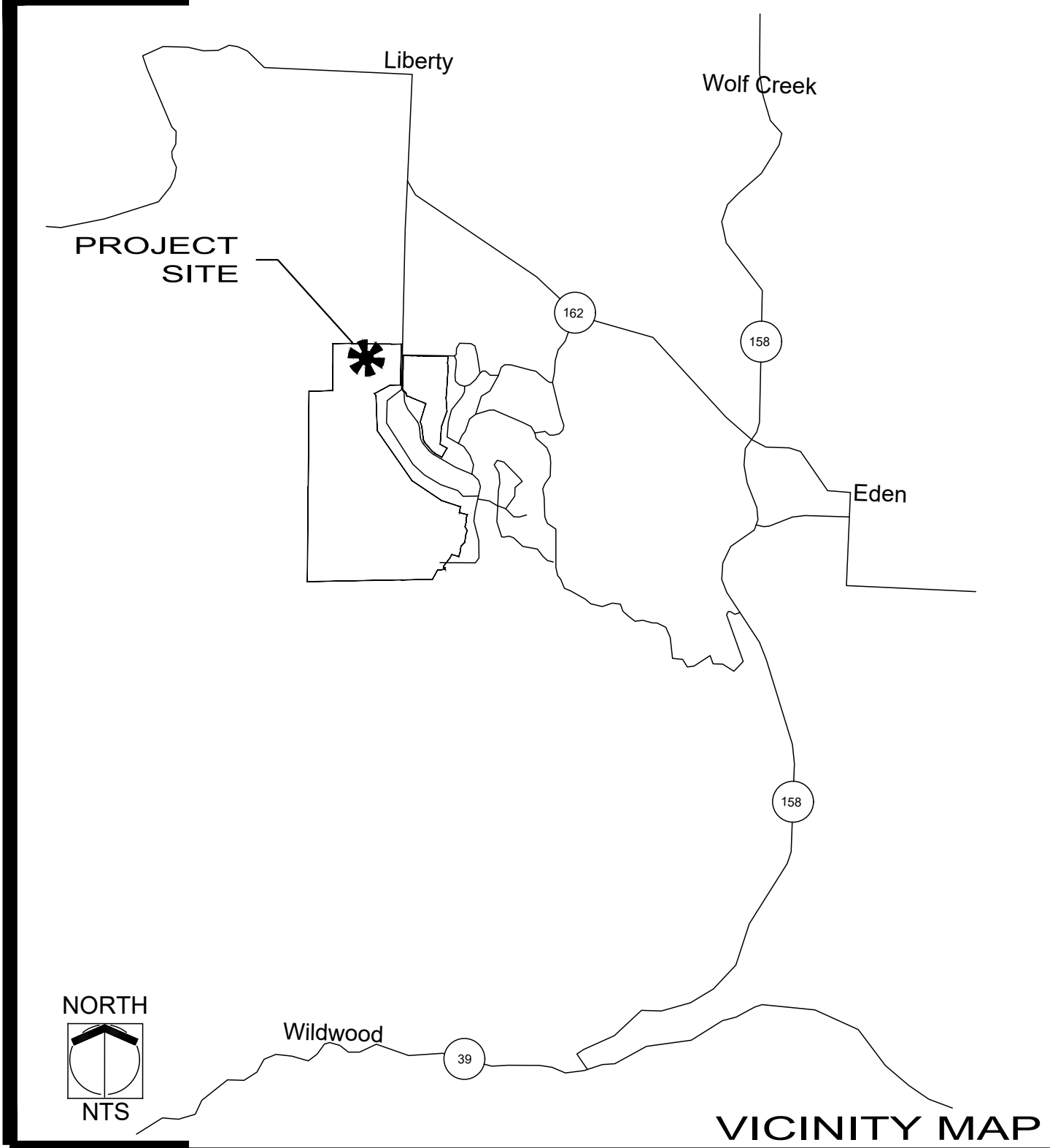
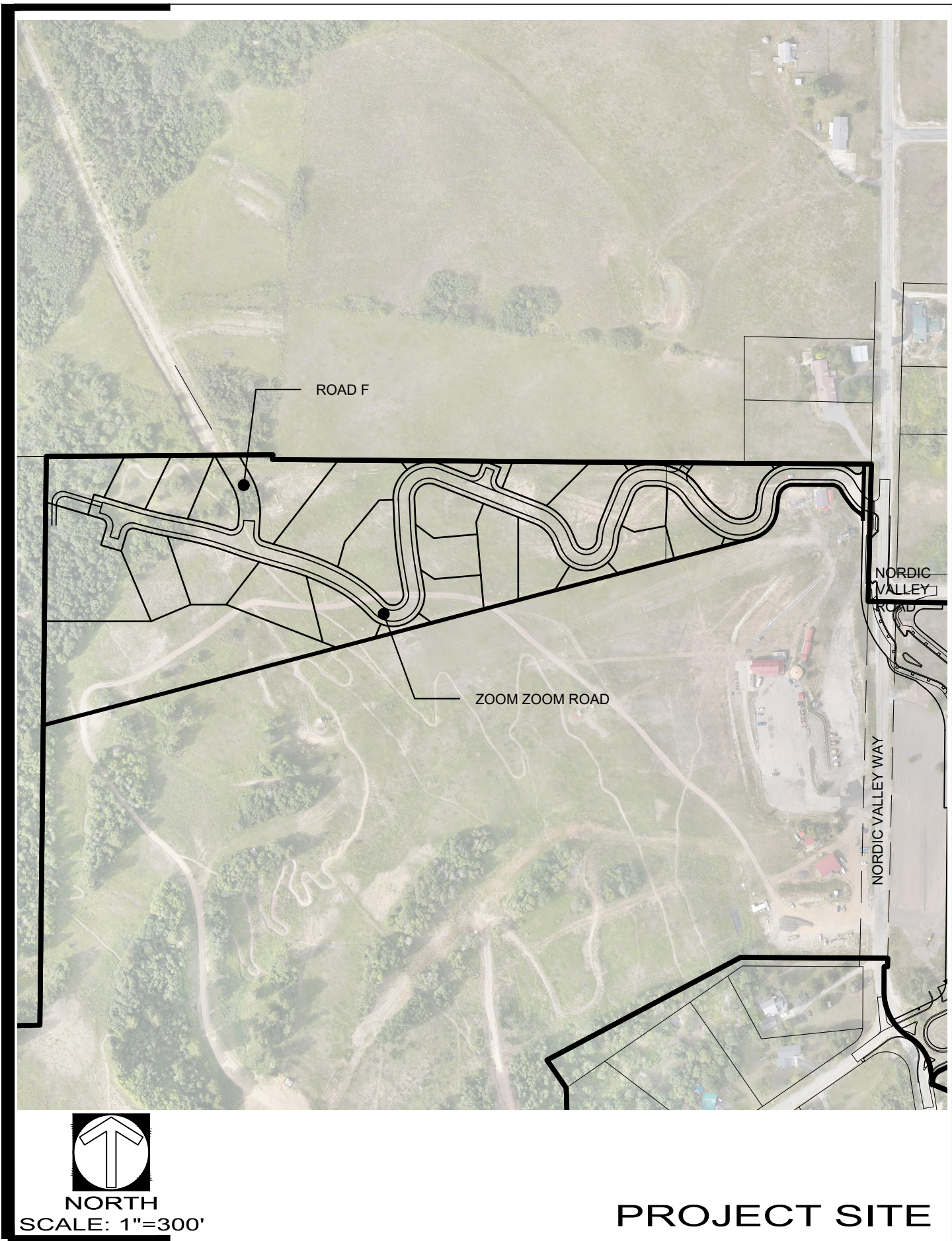
OWNER:
NORDIC VILLAGE, LLC.
482 WEST 800 NORTH, SUITE 204
OREM, UTAH 84057
(801) 870-0204
CONTACT: NATHAN SCHELLENBERG

SITE ENGINEER:
MULHOLLAND DEVELOPMENT SOLUTIONS
P.O. BOX 680925
PARK CITY, UTAH 84068

SUBMITTED: August 22, 2025

NOTES:

1. BENCHMARK IS THE NORTH QUARTER CORNER OF SECTION 32 - FOUND 4" BRASS CAP ELEVATION 5405.24'
2. ALL MATERIALS AND CONSTRUCTION FOR ROADWAY AND STORM WATER INFRASTRUCTURE SHALL CONFORM TO WEBER COUNTY DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS AND TO CONTRACT DOCUMENTS PREPARED FOR THIS PROJECT.
3. THE CONSTRUCTION OF THE WATER SYSTEM IMPROVEMENTS SHALL CONFORM TO THE UTAH ADMINISTRATIVE CODE R309-550-6(1) NSF STANDARD FOR HEALTH EFFECTS, R309-550-8 (7) PRESSURE AND LEAKAGE TESTING, R309-550-8(9) SEALING PIPE ENDS DURING CONSTRUCTION, R309-550-8(10) DISINFECTING WATER DISTRIBUTION SYSTEMS, R309-550-7 (1) SEPARATION OF WATER MAINS FROM SEWERS AND OTHER POLLUTION SOURCES OR NORDIC VALLEY IMPROVEMENT DISTRICT PROCEDURES, DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
4. THE CONSTRUCTION OF THE WASTEWATER SYSTEM IMPROVEMENTS SHALL CONFORM TO NORDIC VALLEY IMPROVEMENT DISTRICT DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
5. FINISH GRADES ARE AT ROADWAY CENTERLINE, UNLESS OTHERWISE SPECIFICALLY NOTED.
6. ALL ROADWAY SIDE SLOPES ARE TO BE 2:1 SLOPES EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, OR AS DIRECTED BY THE ENGINEER.
8. MULHOLLAND DEVELOPMENT SOLUTIONS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS.THE UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
9. CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITY TO AREAS WITHIN THE RIGHT-OF-WAY, UTILITY EASEMENTS, AND DESIGNATED STORAGE, STAGING, ACCESS, CONSTRUCTION AND MATERIAL WASTE AREAS. CONTRACTOR SHALL ABIDE BY EROSION CONTROL REQUIREMENTS AS SET FORTH HEREIN AND AS REQUIRED BY STATE, COUNTY, AND LOCAL LAWS.
10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED BUT IN NO CASE MORE THAN 5 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
11. IF SEDIMENT IS TRACKED ONTO PAVED ROADS, THE ROADS AND WORK AREAS WILL BE SWEEPED TO REMOVE MATERIAL, AS REQUIRED. IF LARGE AMOUNTS OF MATERIAL GET ON THE SURFACES, THE MATERIAL WILL BE MANUALLY REMOVED AND/OR A VACUUM SWEEPER WILL BE USED. IF ACCEPTABLE STANDARDS ARE NOT MET, OPERATIONS WILL CEASE UNTIL CONDITIONS IMPROVE TO THE POINT THAT STANDARDS CAN BE MAINTAINED.
12. REFER TO WESTERN GEOLOGIC & ENVIRONMENTAL LLC REPORT FOR GEOTECHNICAL ENGINEERING CONSIDERATIONS RELATED TO THE CONSTRUCTION OF SUBDIVISION IMPROVEMENTS.



SHEET INDEX

C101	COVER SHEET
C200	NORDIC VALLEY PHASE 1B EXISTING CONDITIONS
C201	NORDIC VALLEY PHASE 1B INDEX PLAN
C202	NORDIC VALLEY PHASE 1B SEWER AND WATER OVERALL PLAN
C203	NORDIC VALLEY PHASE 1B OVERALL GRADING PLAN
C204	NORDIC VALLEY PHASE 1B ROADWAY CENTERLINE
C205	NORDIC VALLEY PHASE 1B SIGNAGE PLAN
C301	ZOOM ZOOM ROAD PLAN AND PROFILE STA 10+00 - 15+00
C302	ZOOM ZOOM ROAD PLAN AND PROFILE STA 15+00 - 20+00
C303	ZOOM ZOOM ROAD PLAN AND PROFILE STA 20+00 - 25+00
C304	ZOOM ZOOM ROAD PLAN AND PROFILE STA 25+00 - 30+00
C305	ZOOM ZOOM ROAD PLAN AND PROFILE STA 30+00 - 33+00
C306	ZOOM ZOOM ROAD PLAN AND PROFILE STA 33+00 - END
C307	ROAD F PLAN AND PROFILE STA 10+00 - END
C401	BACKLOT WATER PLAN AND PROFILE STA 25+00 - 29+00
C402	BACKLOT WATER PLAN AND PROFILE STA 29+00 - END
C403	BACKLOT IRRIGATION PLAN AND PROFILE STA 0+00 - END
C404	BACKLOT STORMWATER PLAN AND PROFILE STA 0+00 - 5+00
C405	BACKLOT STORMWATER PLAN AND PROFILE STA 5+00 - 10+00
C406	BACKLOT STORMWATER PLAN AND PROFILE STA 10+00 - END
C501	ZOOM ZOOM ROAD CROSS SECTIONS STA 10+50 - 20+00
C502	ZOOM ZOOM ROAD CROSS SECTIONS STA 20+50 - 30+00
C503	ZOOM ZOOM ROAD CROSS SECTIONS STA 30+50 - END
C504	ROAD F CROSS SECTIONS STA 10+50 - 11+50
C601	STANDARD DETAILS
C602	STANDARD DETAILS
C603	STANDARD DETAILS



NORDIC PHASE 1B
CONSTRUCTION DRAWINGS

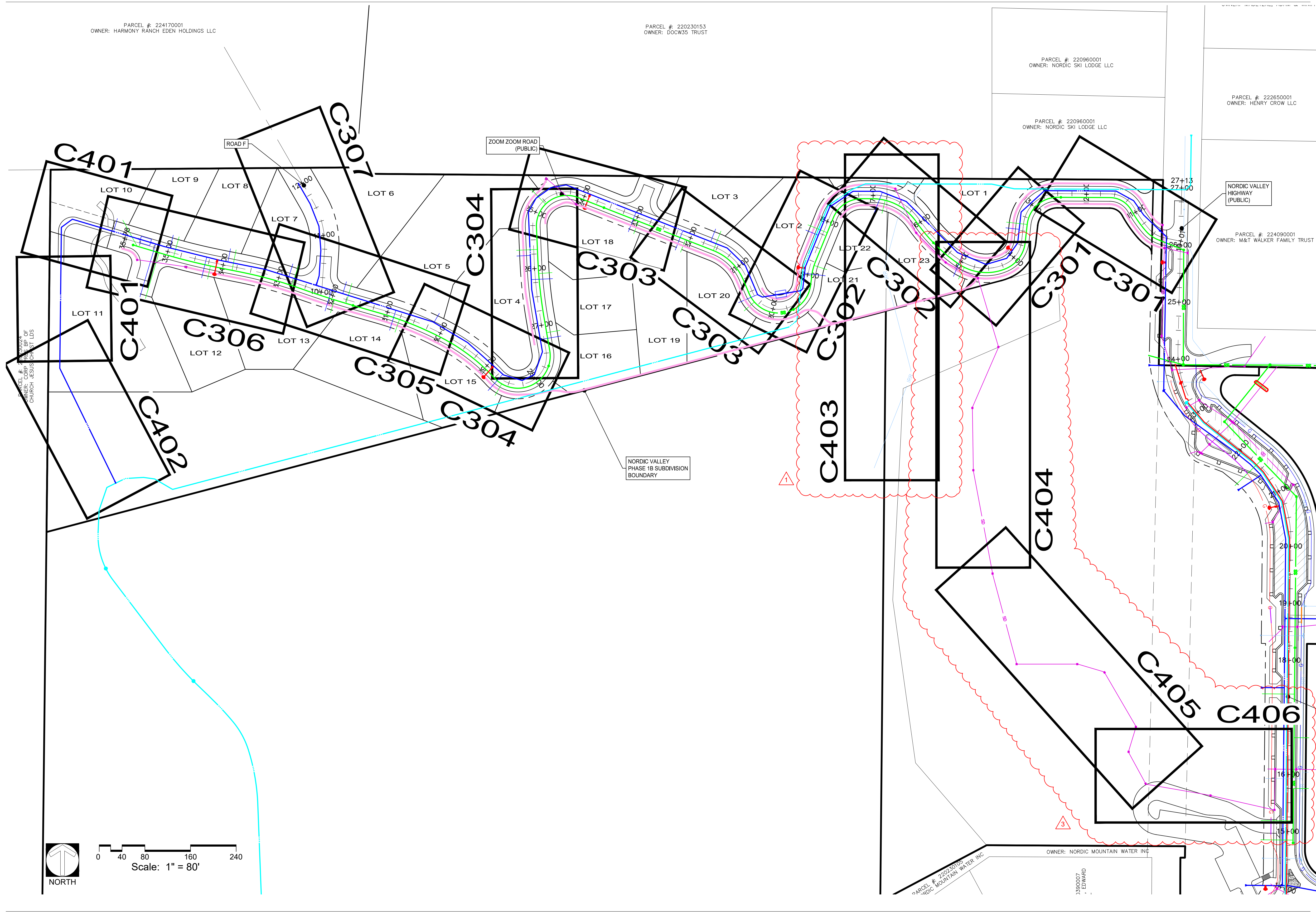


DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	07/11/2025: ADDED C403 SHEET
•	08/21/2025: ADDED C404 TO C406 SHEETS
•	

SHEET TITLE:
COVER SHEET

SHEET:
C101

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C201_Nordic Phase 1B Index Plan.dwg | plot date: August 22, 2025 | plotted by: Jenny



NORDIC PHASE 1B
CONSTRUCTION DRAWINGS

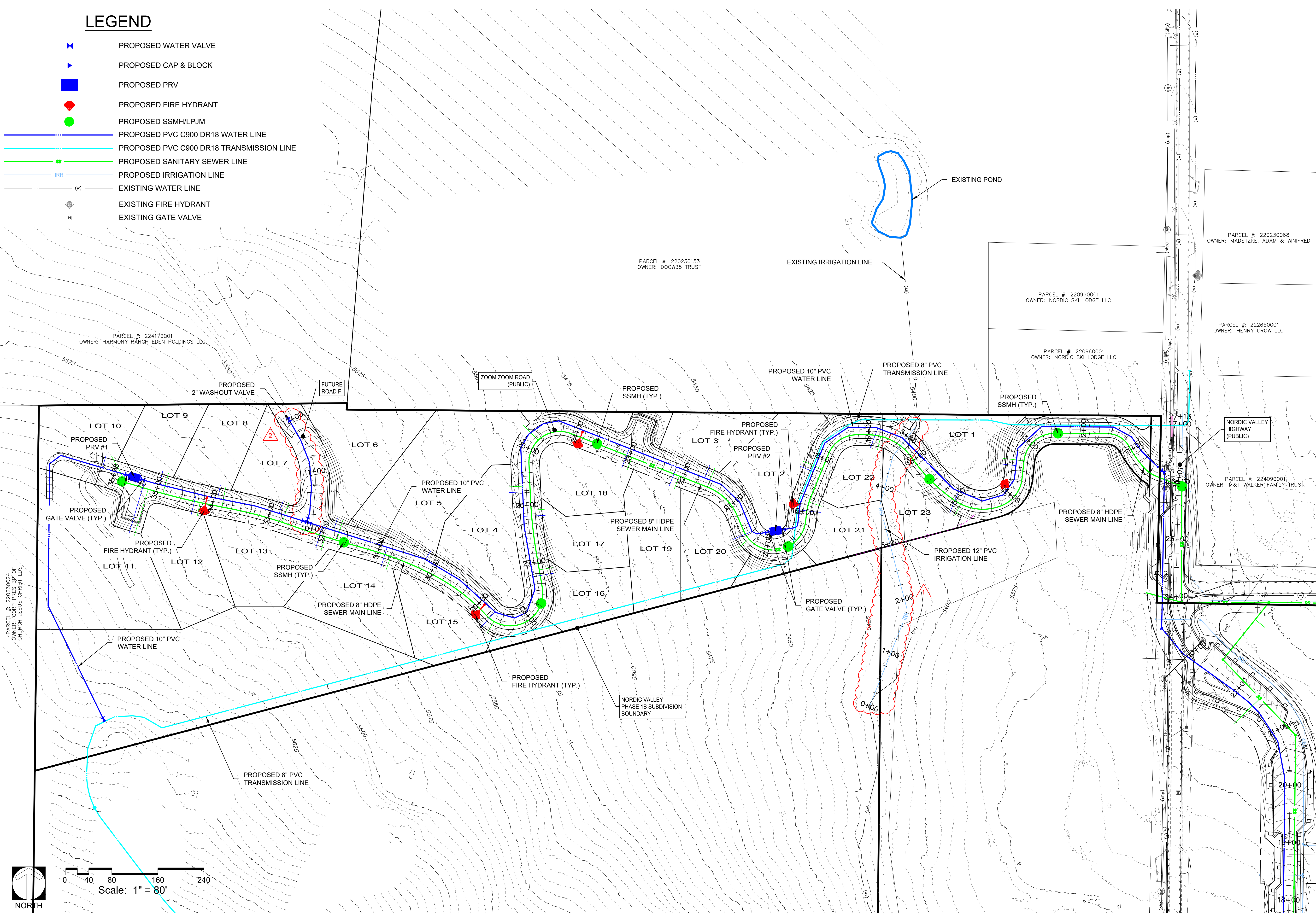
MULHOLLAND
DEVELOPMENT SOLUTIONS
kristian@mulholland-development.com
P.O. BOX 680925
PARK CITY, UTAH 84068
435.901.2940 (c)



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	07/11/2025: NEW SHEET FOR BACKLOT IRRIGATION
•	08/21/2025: NEW SHEETS FOR BACKLOT STORMWATER
•	
SHEET TITLE:	NORDIC VALLEY PH-1B INDEX PLAN

SHEET:
C201

path: D:\MDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C202_Nordic Phase 1B Overall Sewer and Water Plan.dwg | plot date: August 15, 2025 | plotted by: Ron

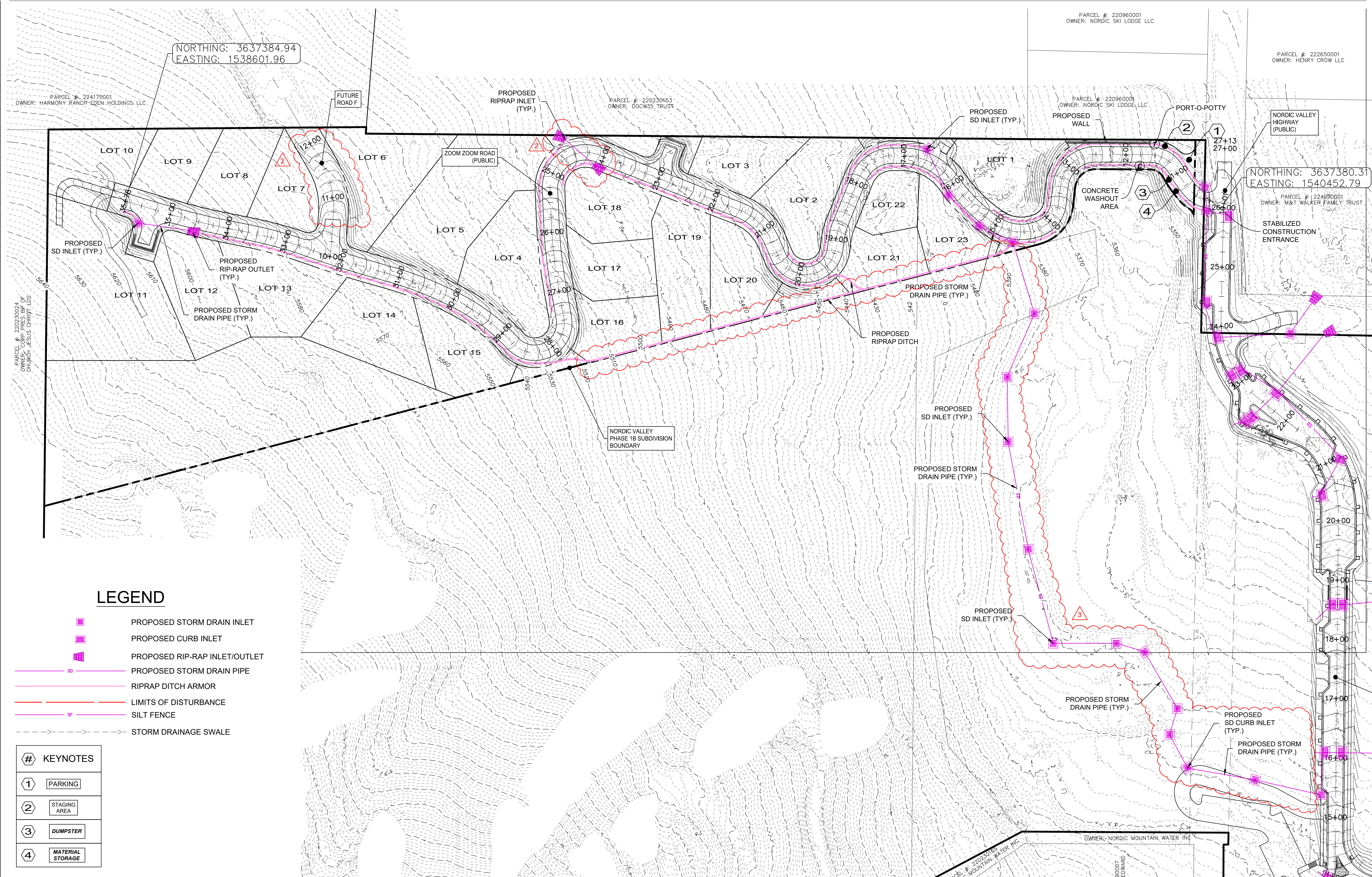


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	August 15, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	07/11/2025: RE-ALIGNMENT OF IRRIGATION LINE
•	08/15/2025: EXTENDED WATER LINE
•	
SHEET TITLE:	NORDIC VALLEY PH-1B OVERALL SEWER & WATER PLAN
SHEET:	C202

path: C:\Users\JennyMDS\Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C203_Nordic Phase 1B Overall Grading Plan.dwg | plot date: August 22, 2025 | plotted by: Jenny



LEGEND

- PROPOSED STORM DRAIN INLET
- PROPOSED CURB INLET
- PROPOSED RIP-RAP INLET/OUTLET
- PROPOSED STORM DRAIN PIPE
- RIPRAP DITCH ARMOR
- LIMITS OF DISTURBANCE
- SILT FENCE
- STORM DRAINAGE SWALE

#	KEYNOTES
1	PARKING
2	STAGING AREA
3	DUMPSTER
4	MATERIAL STORAGE



Scale: 1" = 80'

NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	08/15/2025: EXTENDED ROAD GRADING AND ADDED CULVERT
•	08/21/2025: ADDED STORMWATER LINE AND EXTEND DITCH

SHEET TITLE:
NORDIC VALLEY PH-1B
OVERALL
GRADING PLAN

SHEET:
C203

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C204_Nordic Phase 1B Roadway Centerline.dwg | plot date: August 22, 2025 | plotted by: Jenny

PARCEL #: 220230024
OWNER: CHURCH OF CHRIST OF CHURCH JESUS CHRIST LDS

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CH BEARING	CH DIST
C1	50.00'	32.01'	36°41'09"	N59°33'23"W	31.47'
C2	200.00'	42.98'	12°18'41"	N35°03'28"W	42.89'
C3	50.00'	53.05'	60°47'42"	N59°17'58"W	50.60'
C4	60.00'	87.92'	83°57'19"	S48°19'31"W	80.26'
C5	50.00'	51.04'	58°29'05"	S35°35'25"W	48.85'
C6	80.00'	83.25'	59°37'29"	N85°21'18"W	79.55'
C7	280.00'	101.77'	20°49'29"	N45°07'49"W	101.21'
C8	100.00'	96.37'	55°12'48"	N62°19'29"W	92.68'
C9	60.00'	71.12'	67°56'04"	S56°06'35"W	67.03'
C10	100.00'	26.86'	15°23'18"	S14°27'24"W	26.78'
C11	50.00'	131.22'	150°22'21"	S81°56'55"W	96.68'
C12	100.00'	79.81'	45°43'40"	N45°43'44"W	77.71'
C13	60.00'	119.27'	113°53'54"	S54°27'29"W	100.58'
C14	800.00'	101.72'	7°17'06"	S6°08'00"E	101.65'
C15	50.00'	128.34'	147°03'57"	S63°45'25"W	95.90'
C16	340.00'	117.13'	19°44'15"	N52°34'44"W	116.55'
C17	600.00'	121.12'	11°34'00"	N68°13'51"W	120.92'
C18	1600.00'	100.48'	3°35'54"	N72°12'54"W	100.47'
C19	750.00'	108.53'	8°17'28"	N74°33'42"W	108.44'
C20	1100.00'	100.98'	5°15'35"	N76°04'38"W	100.95'
C21	150.00'	88.41'	33°46'10"	N13°02'13"W	87.13'

LINE TABLE		
LINE	LENGTH	BEARING
L1	29.16'	N77°53'58"W
L2	91.37'	N89°41'49"W
L3	30.42'	S6°20'52"W
L4	18.78'	N89°55'53"W
L5	83.96'	S22°09'03"W
L6	15.35'	S6°45'44"W
L7	26.19'	N22°51'54"W
L8	254.95'	N68°35'34"W
L9	57.73'	S2°29'27"E
L10	58.93'	S9°46'33"E
L11	43.50'	N74°00'51"W
L12	40.90'	N78°42'26"W
L13	70.86'	N73°26'50"W
L14	60.00'	S16°33'10"W
L15	72.84'	N3°50'52"E
L16	68.99'	N29°55'18"W

PARCEL #: 224170001
OWNER: HARMONY RANCH EDEN HOLDINGS LLC

PARCEL #: 220230153
OWNER: DDCW35 TRUST

PARCEL #: 220960001
OWNER: NORDIC SKI LODGE LLC

PARCEL #: 220960001
OWNER: NORDIC SKI LODGE LLC

PARCEL #: 220230068
OWNER: MADETZKE, ADAM & WINIFR

PARCEL #: 222650001
OWNER: HENRY CROW LLC

PARCEL #: 224090001
OWNER: M&T WALKER FAMILY TRUST

NORDIC VALLEY
HIGHWAY
(PUBLIC)

ZOOM ZOOM ROAD
(PUBLIC)

FUTURE
ROAD F

NORDIC VALLEY
PHASE 1B SUBDIVISION
BOUNDARY



0 40 80 160 240
Scale: 1" = 80'

NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



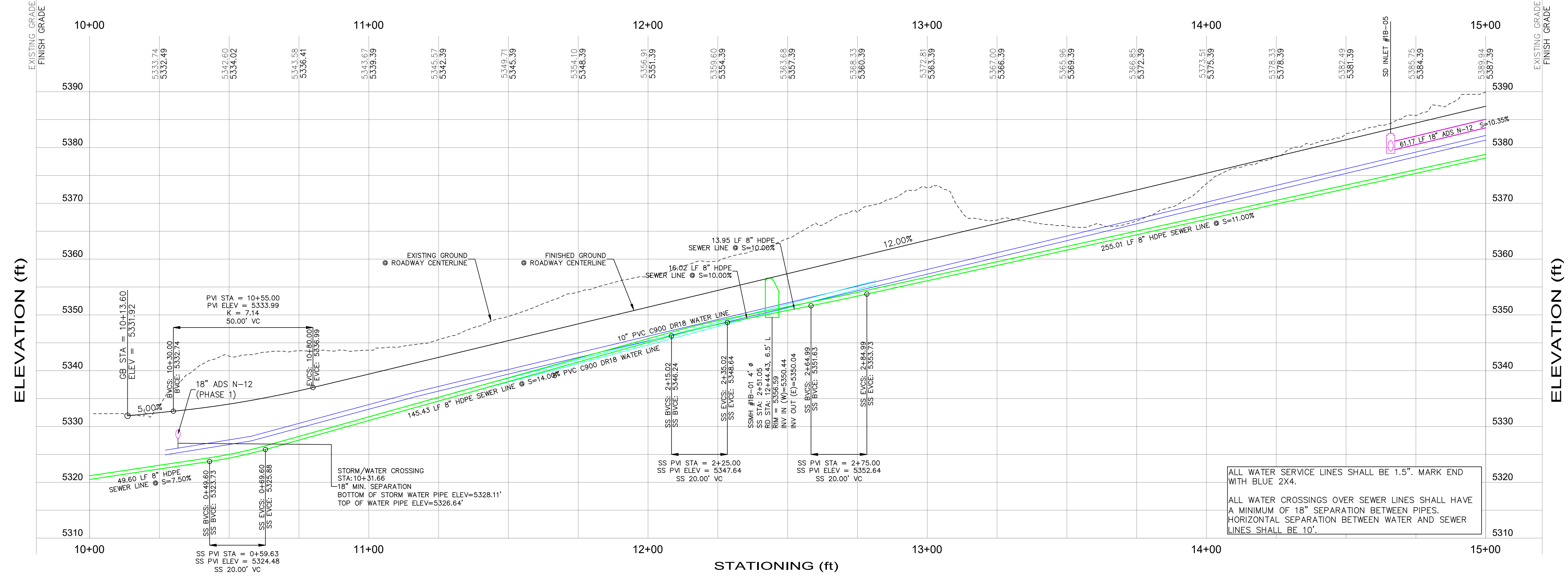
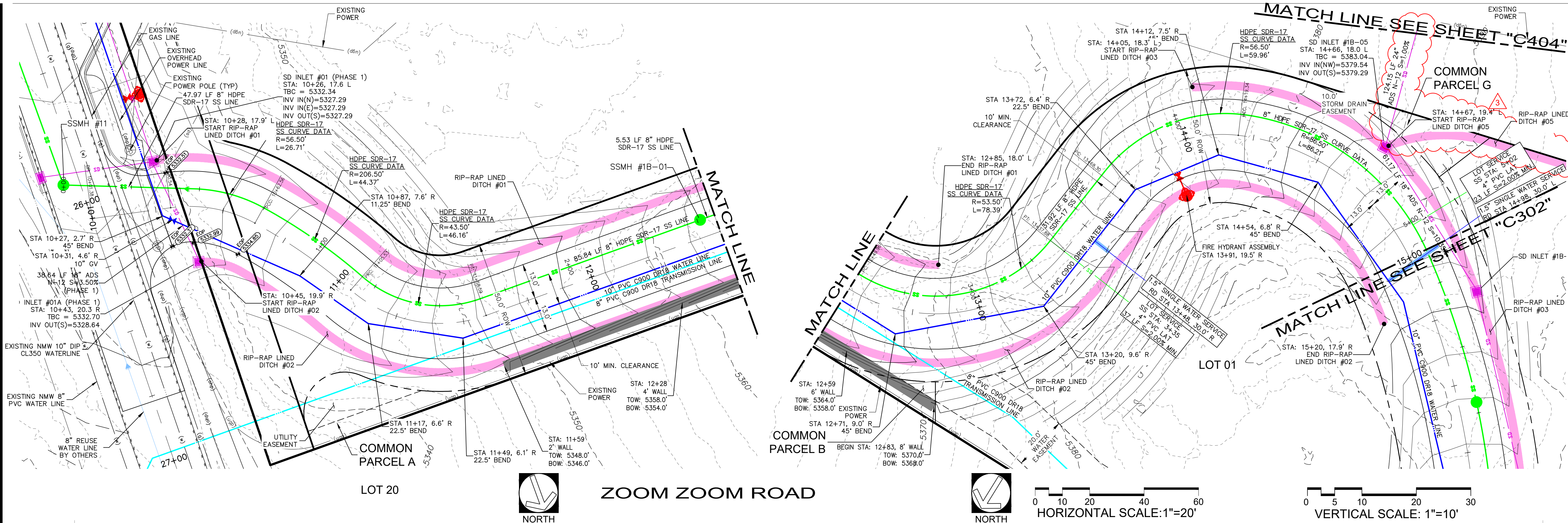
DATE: August 22, 2025
DESIGN BY: KJM
DRAWN BY: BRC
REVIEW BY:
PROJECT NO: NORDIC
ISSUE: DESIGN

REVISIONS:
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SHEET TITLE:
NORDIC VALLEY PH-1B
ROADWAY
CENTERLINE

SHEET:
C204

path: C:\Users\JennyMDS\Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C301_Nordic Phase 1B Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

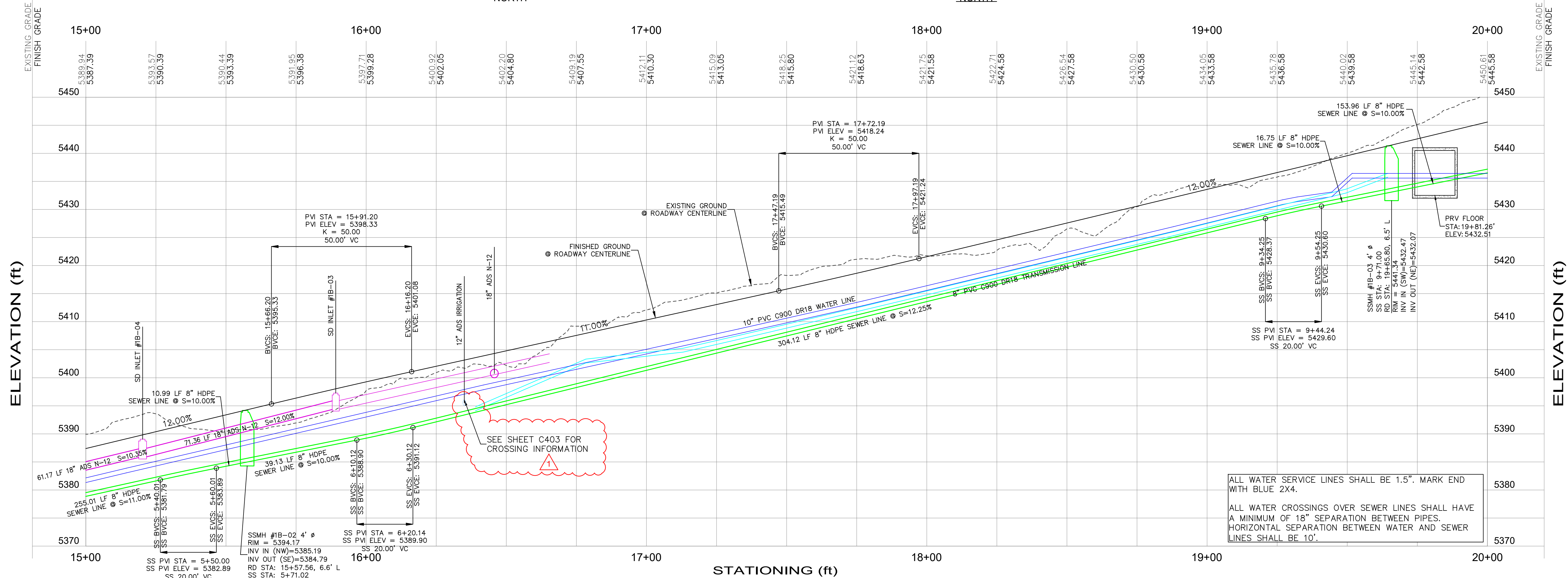
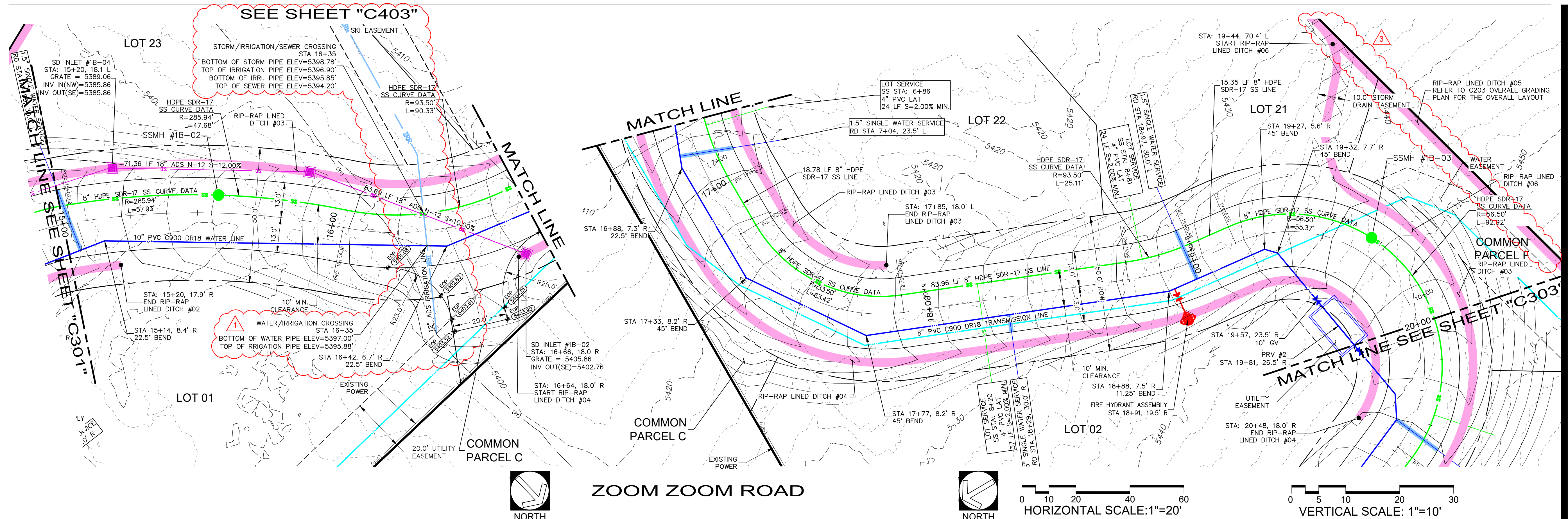


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS

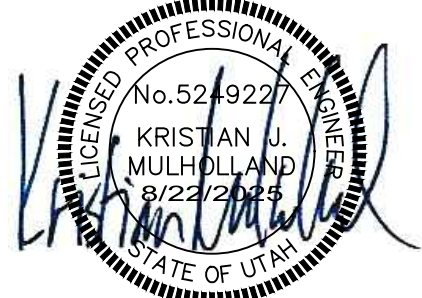


DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
	08/21/2025: EXTENDED DITCH LENGTH AND ADDED STORMWATER LINE.
SHEET TITLE:	ZOOM ZOOM ROAD PLAN AND PROFILE STA 10+00 - 15+00
SHEET:	C301

path: C:\Users\JennyMDS\Dropbox\Projects\106_Nordic\Valley01_Design\Nordic Phase 1B\ file name: C301_Nordic Phase 1B Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

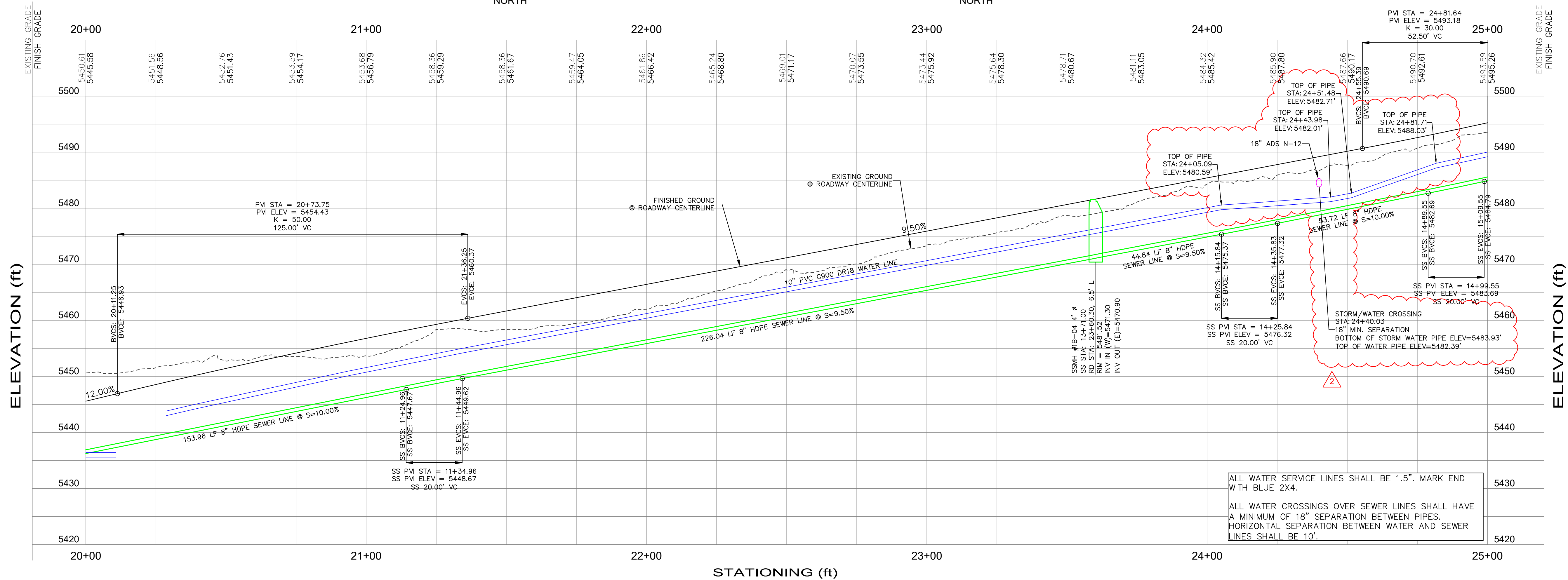
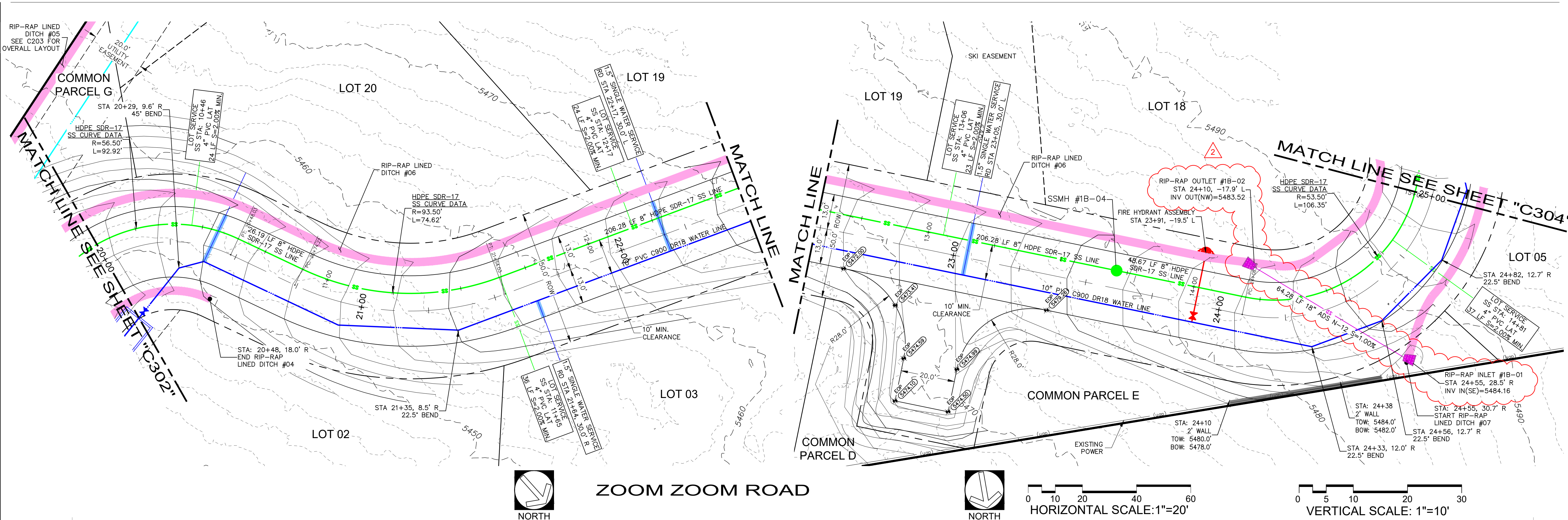


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	07/11/2025: ADDED IRRIGATION LINE 08/21/2025: EXTEND RIP-RAP DITCH
SHEET TITLE:	ZOOM ZOOM ROAD PLAN AND PROFILE STA 15+00 - 20+00
SHEET:	C302

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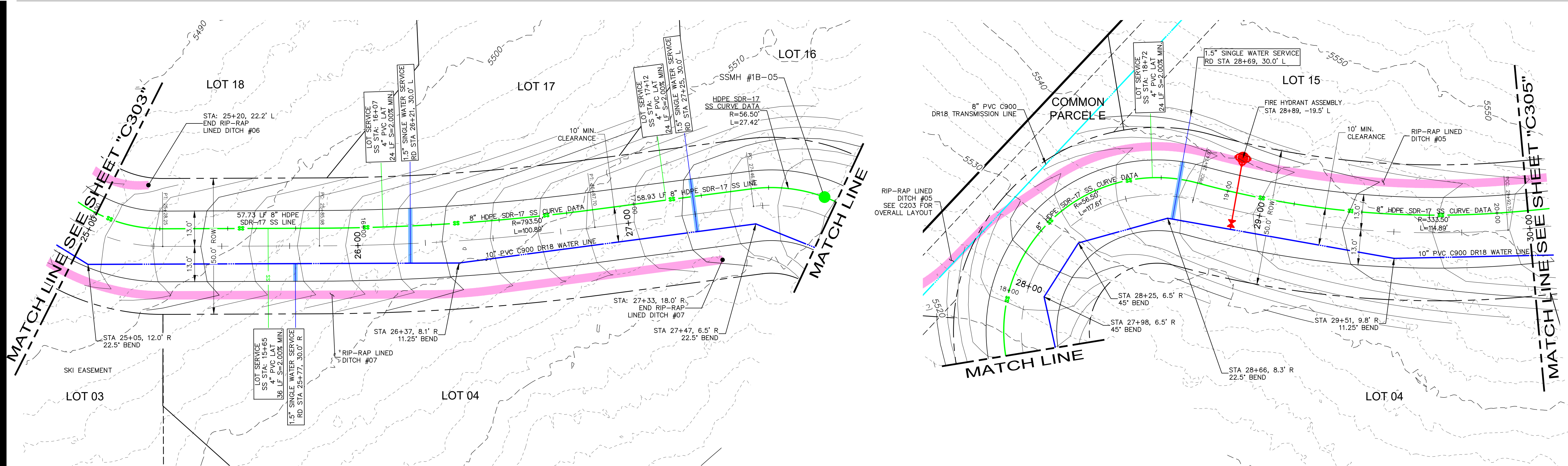


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE: ZOOM ZOOM ROAD PLAN AND PROFILE STA 20+00 - 25+00	
SHEET: C303	

path: C:\Users\JennyMDS\Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C301_Nordic Phase 1B Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

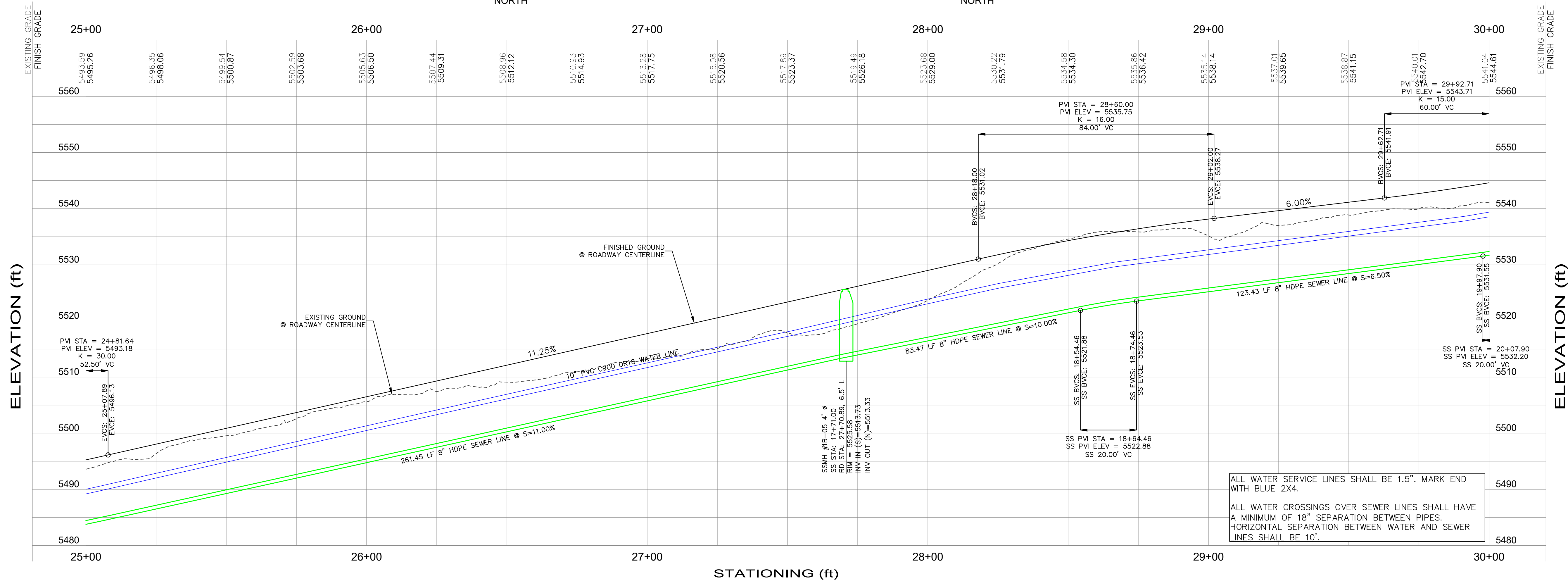


ZOOM ZOOM ROAD



HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: 1"=10'



ELEVATION (ft)



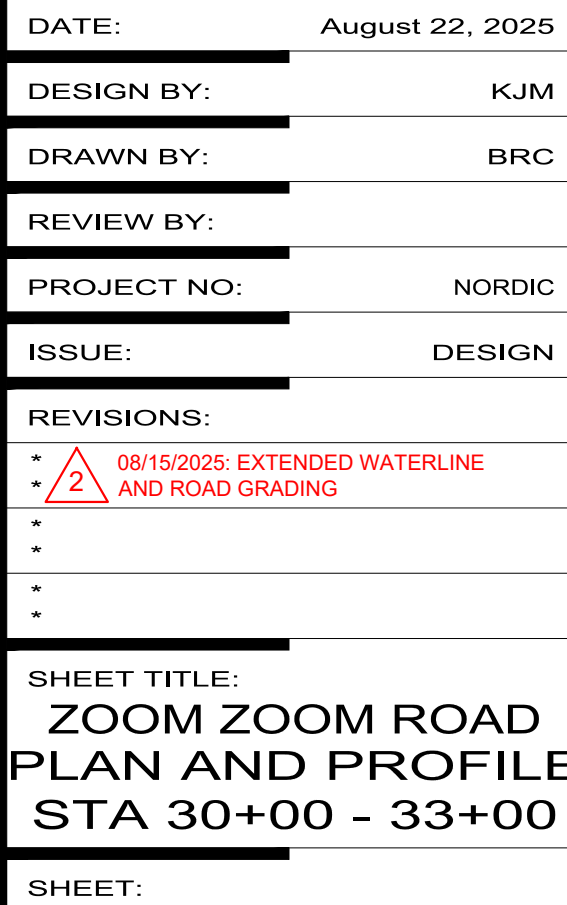
DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE:	ZOOM ZOOM ROAD PLAN AND PROFILE STA 25+00 - 30+00
SHEET:	C304



MULHOLLAND
DEVELOPMENT SOLUTIONS

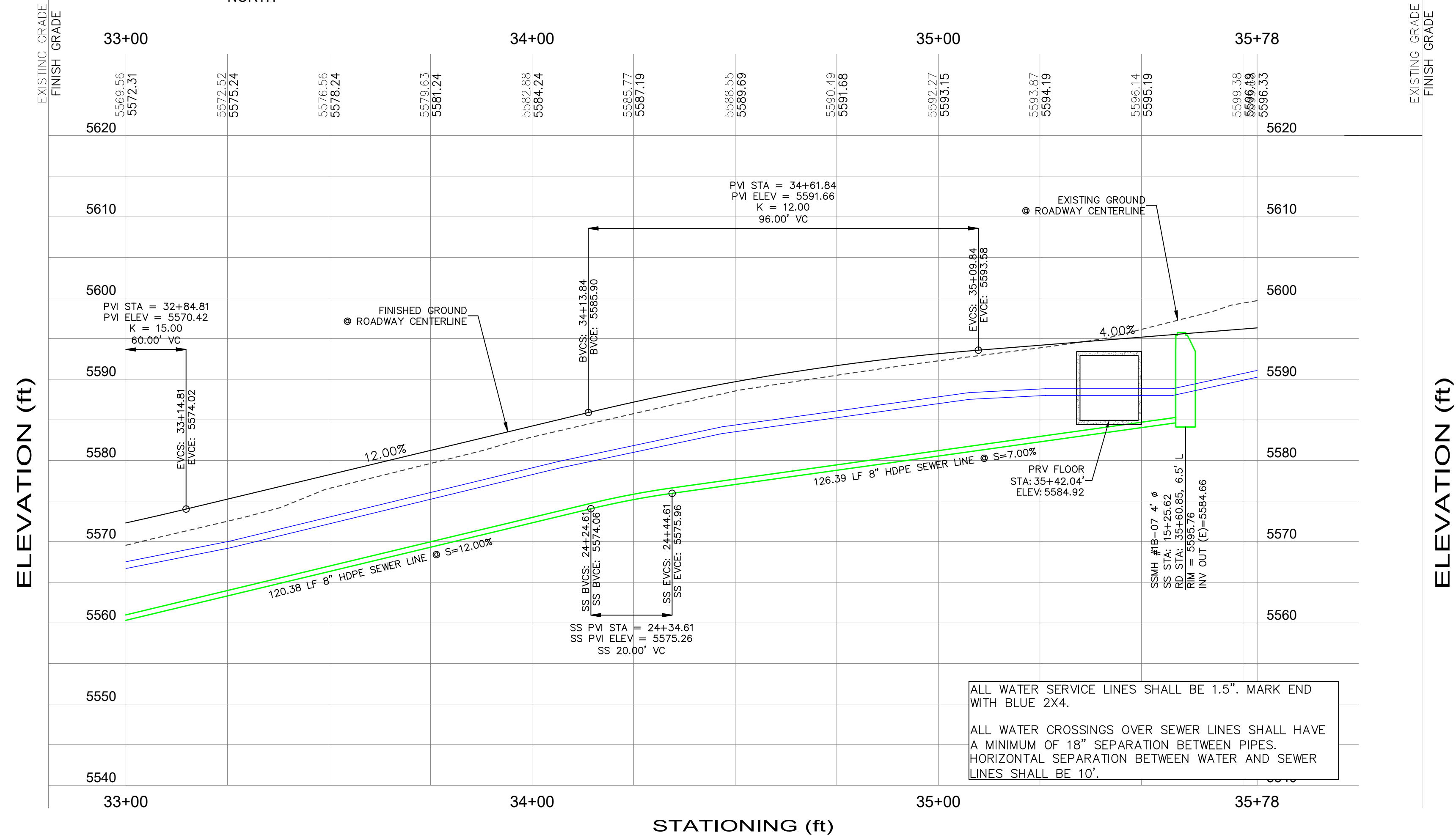
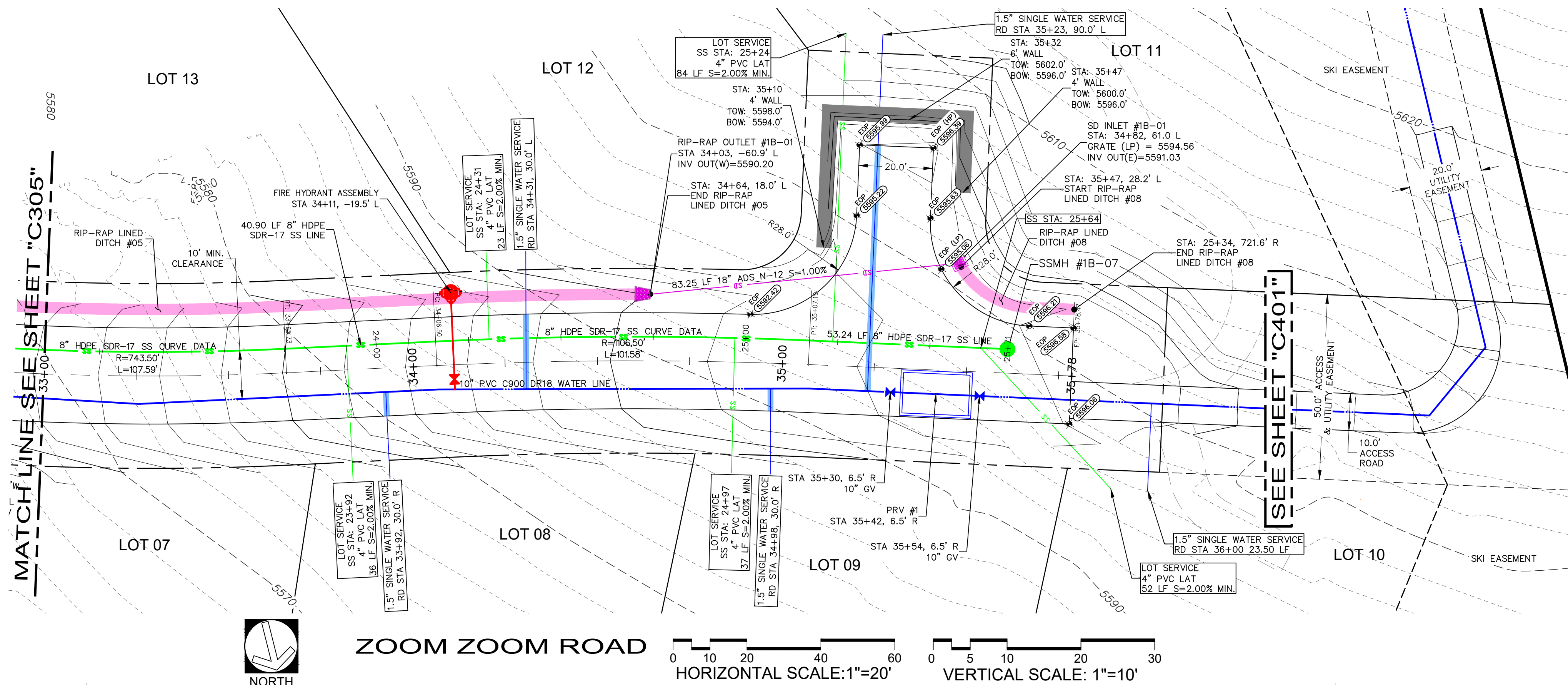
kristian@mulholland-development.com

P.O. BOX 680925
PARK CITY, UTAH 84068
435.901.2940 (c)



C305

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C301_Nordic Phase 1B Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

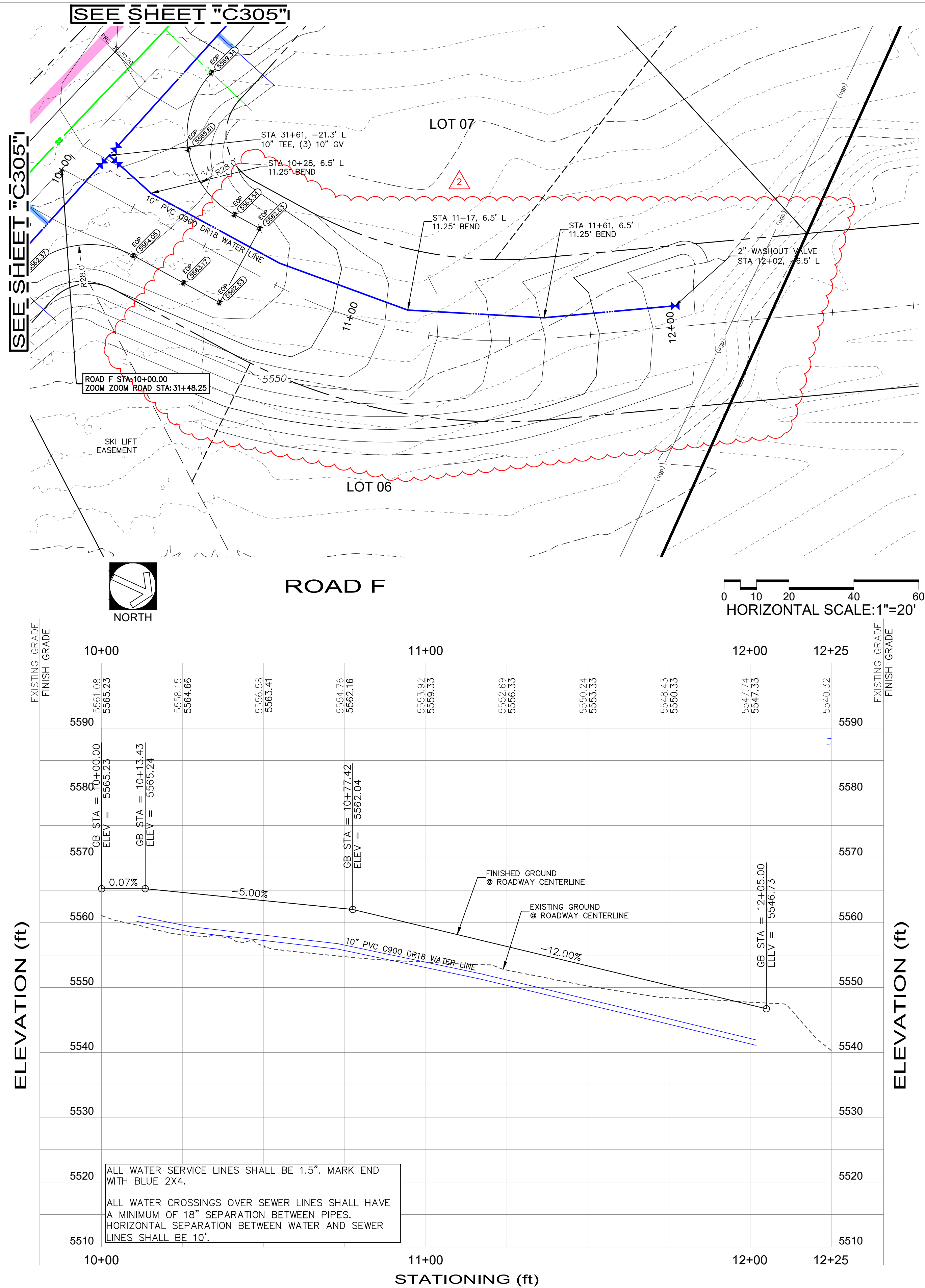


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE:	ZOOM ZOOM ROAD PLAN AND PROFILE STA 33+00 - END
SHEET:	C306

path: C:\Users\Jenny\MDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C301_Nordic Phase 1B Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

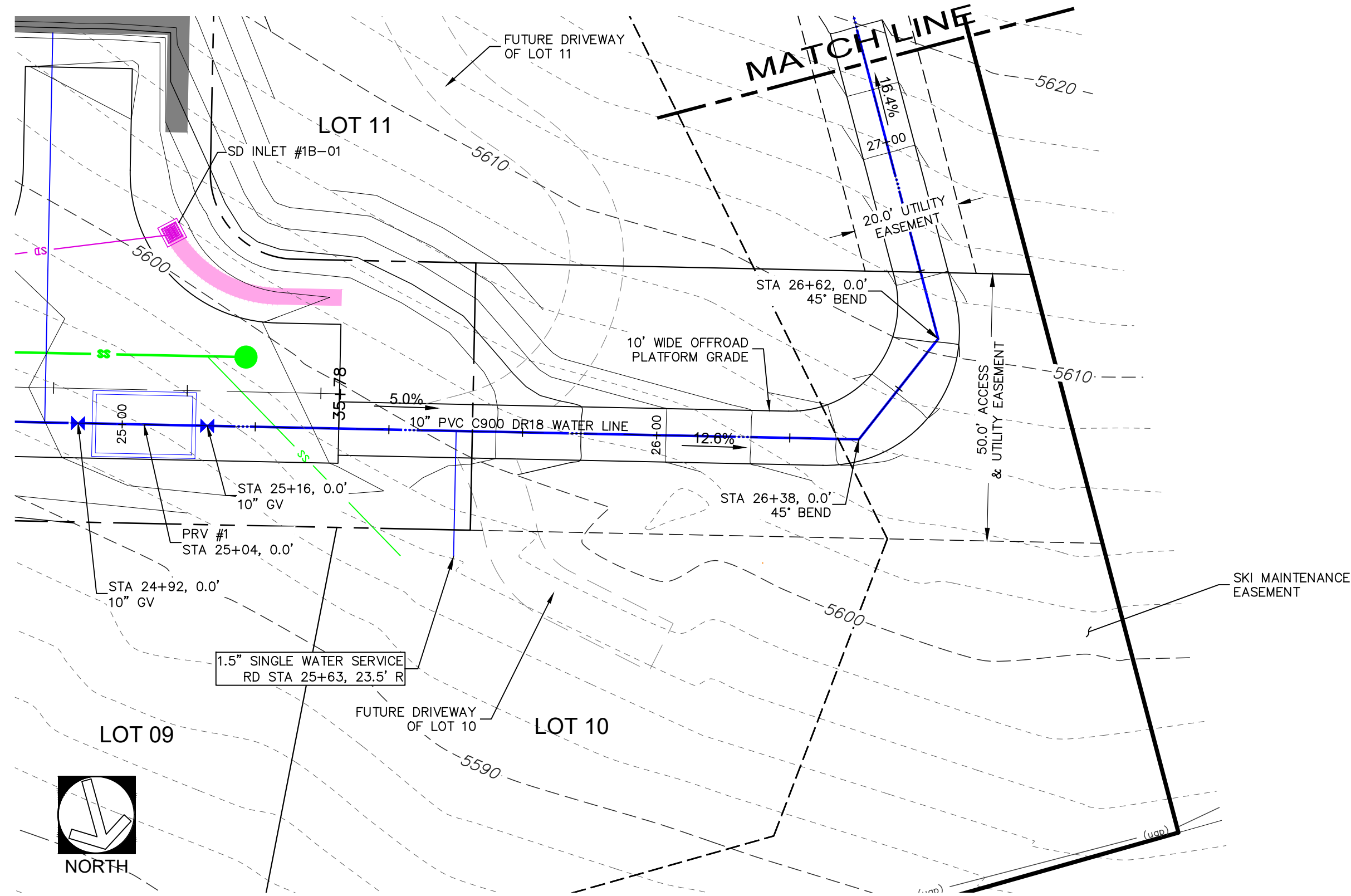


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS

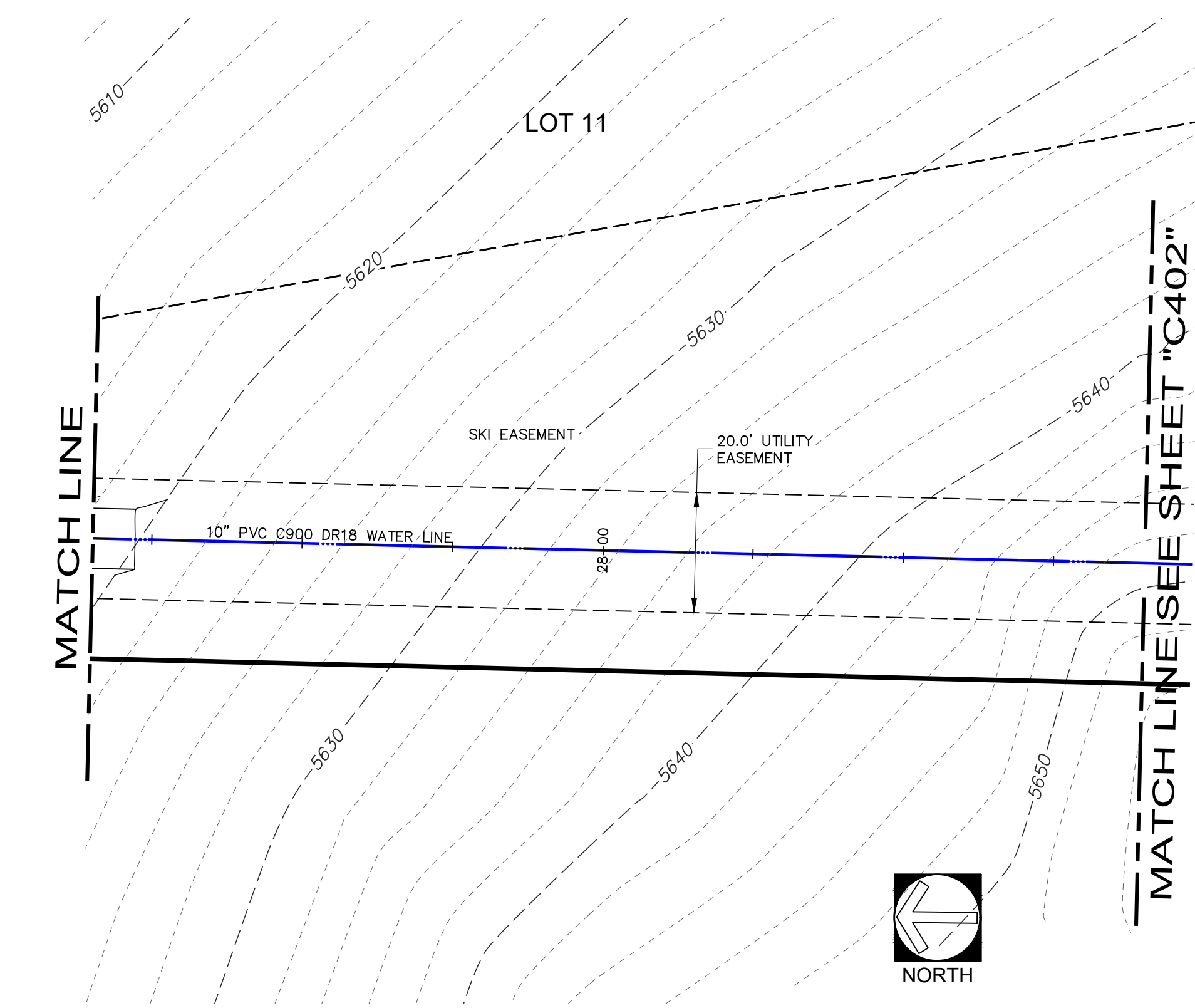


DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	08/15/2025: EXTENDED WATERLINE AND ROAD GRADING
•	
•	
•	
•	
SHEET TITLE:	ROAD F PLAN AND PROFILE STA 10+00 - END
SHEET:	C307

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C401_Backlot Water Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

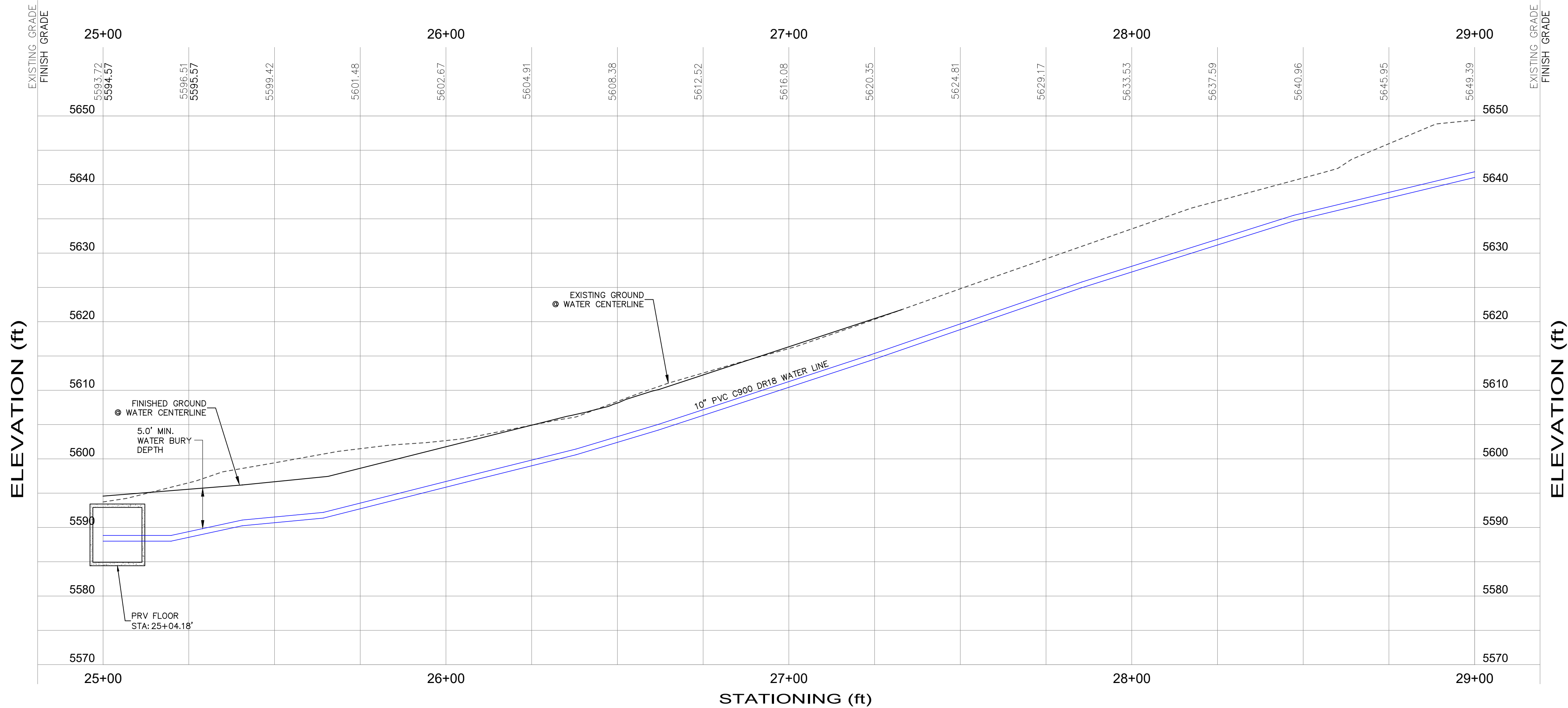


BACKLOT WATER



HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: 1"=10'

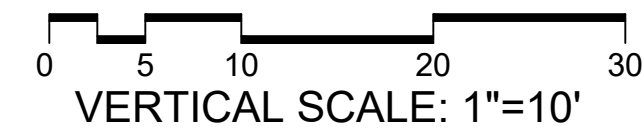
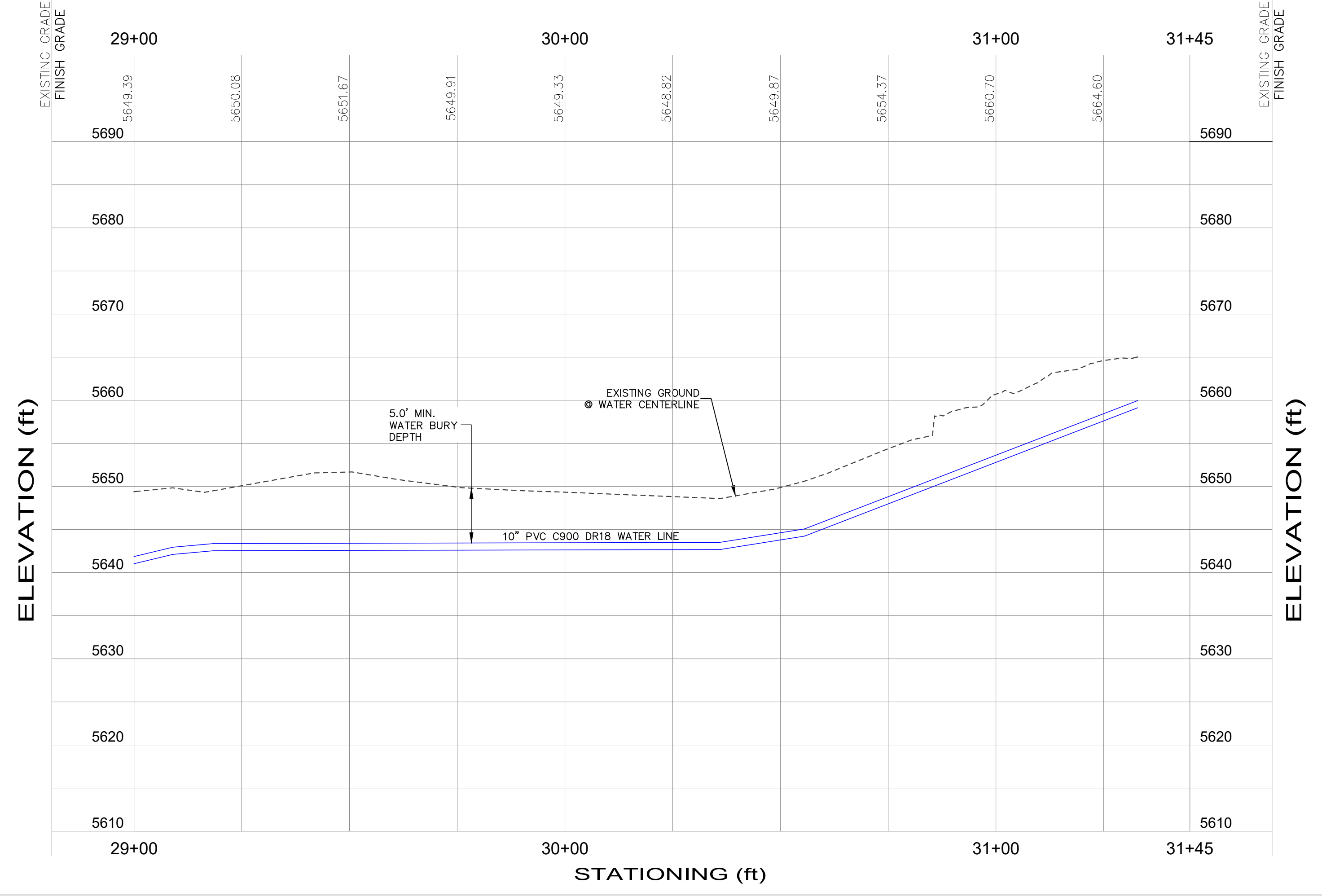
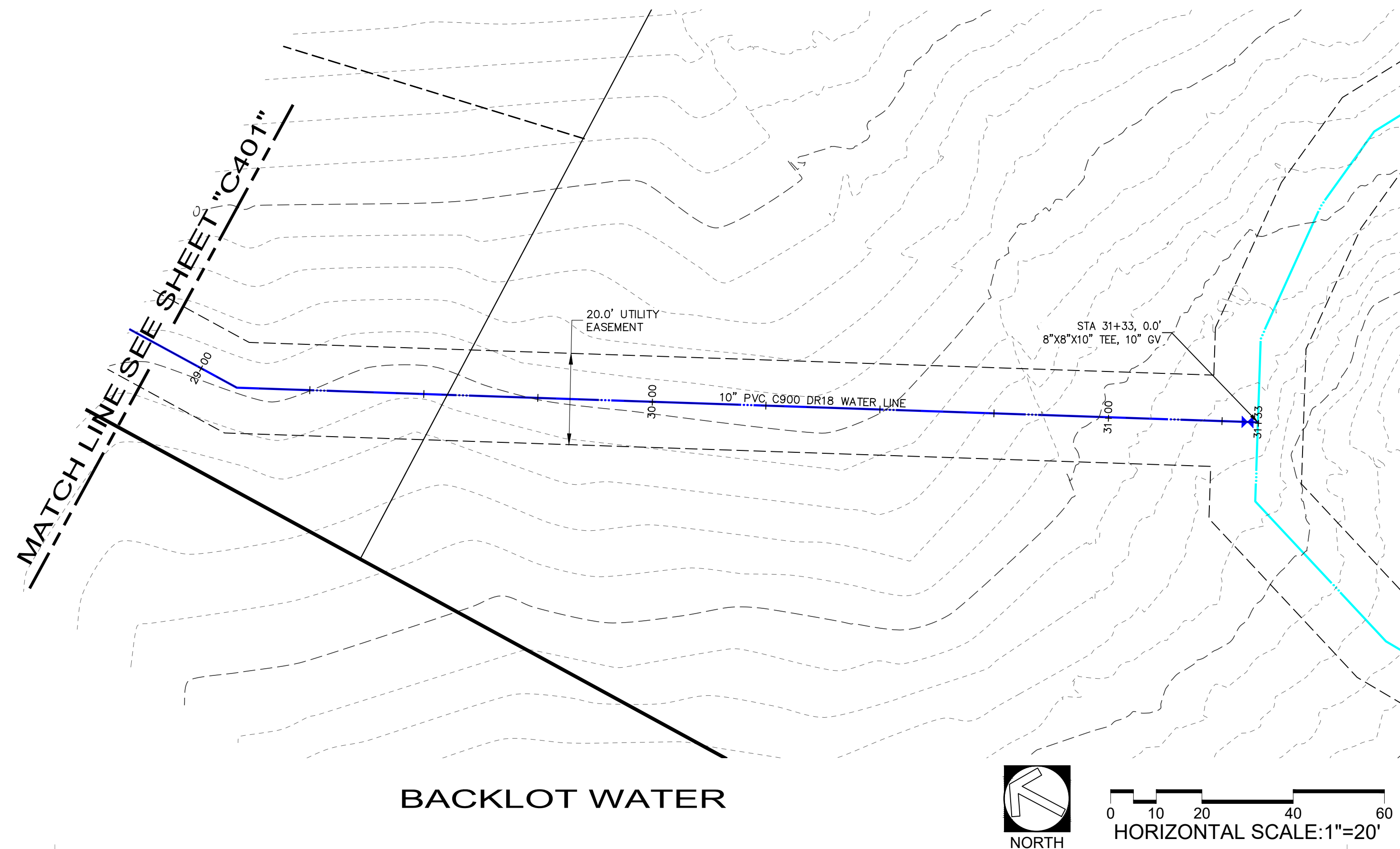


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DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	

SHEET TITLE:
BACKLOT WATER
PLAN AND PROFILE
STA 25+00 - 29+00

SHEET:
C401

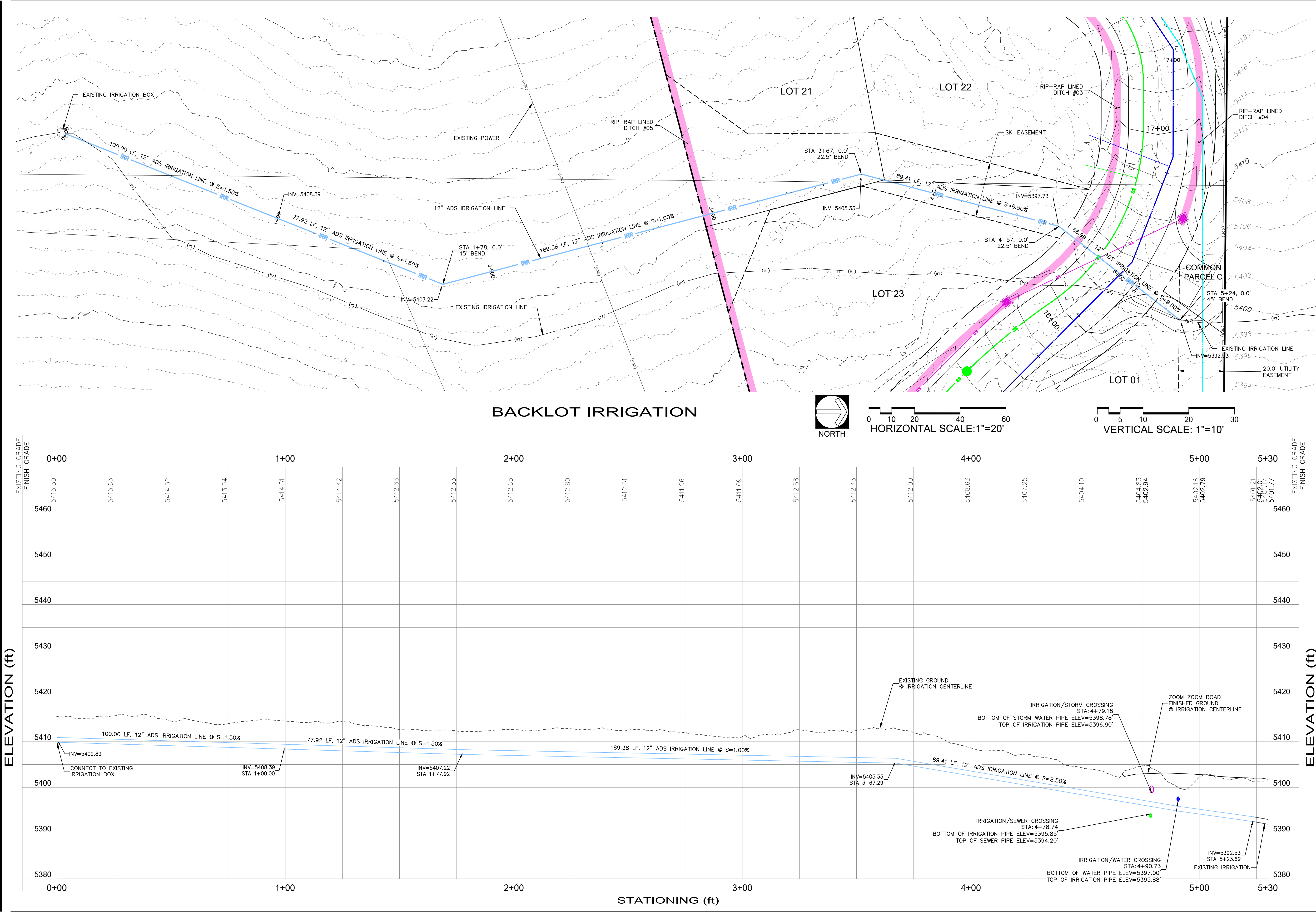
path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C401_Backlot Water Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE:	BACKLOT WATER PLAN AND PROFILE STA 29+00 - END

SHEET:
C402

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C401_Backlot Water Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

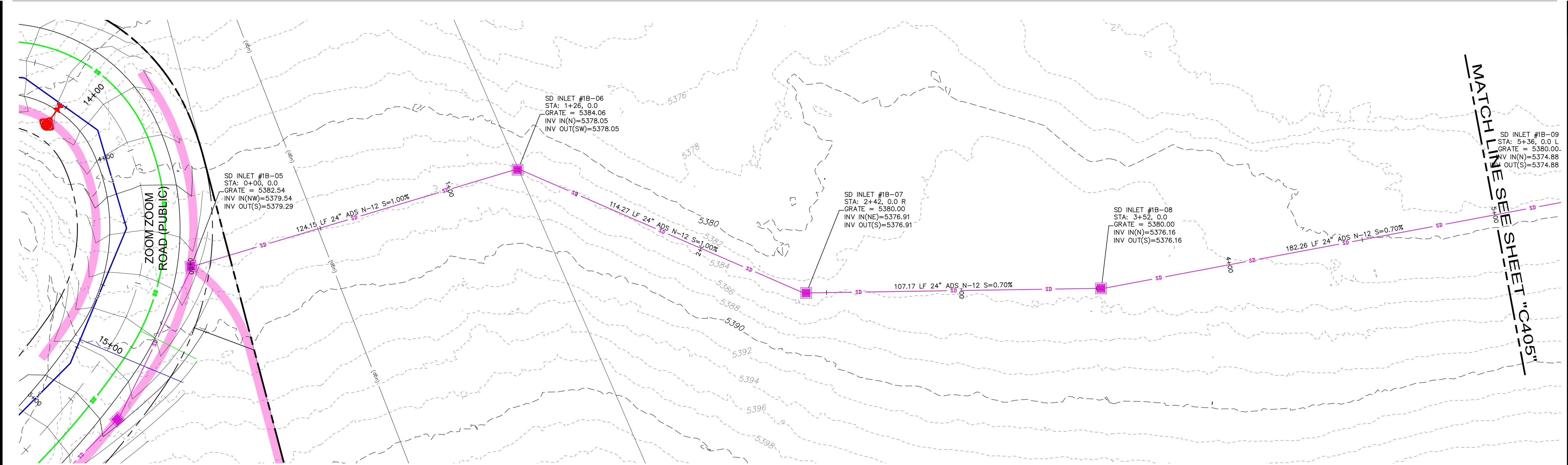


**NORDIC PHASE 1B
CONSTRUCTION DRAWINGS**



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
	07/11/2025: NEW SHEET ADDED FOR BACKLOT IRRIGATION PLAN AND PROFILE
SHEET TITLE:	BACKLOT IRRIGATION PLAN AND PROFILE STA 0+00 - END
SHEET:	C403

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C404_Backlot Stormwater Plan and Profile.dwg | plot date: August 22, 2025 | plotted by: Jenny

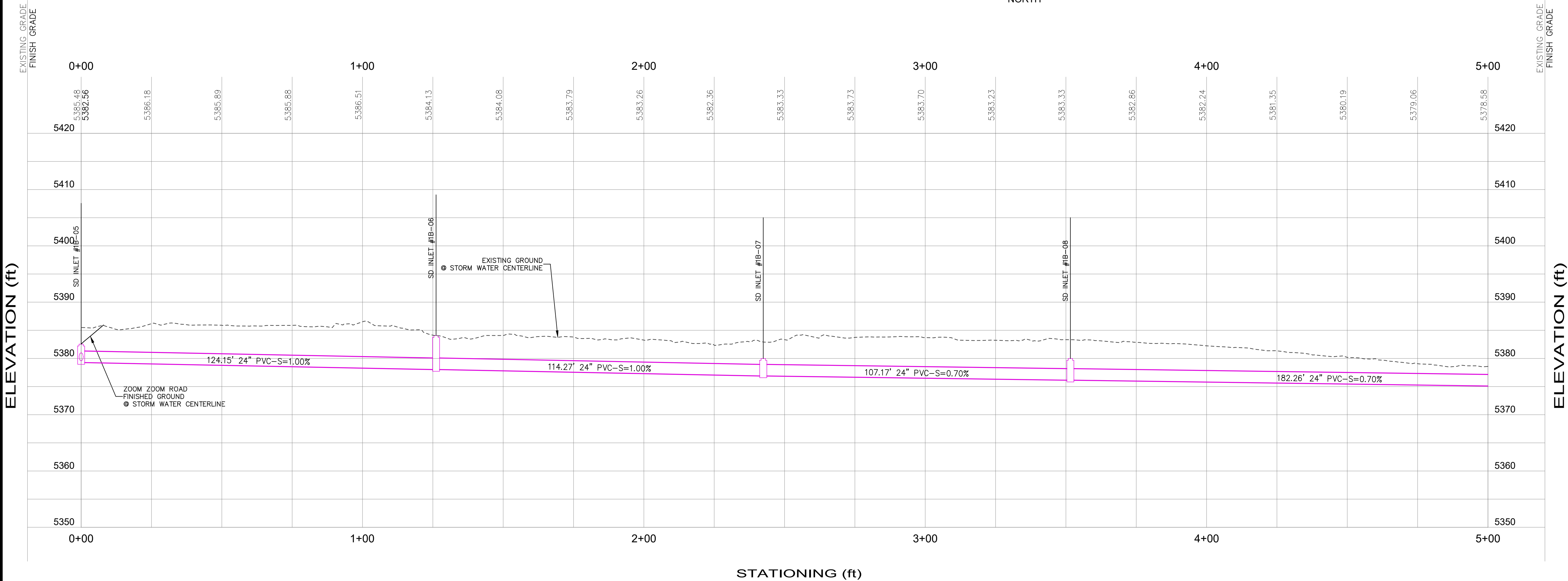


BACKLOT STORMWATER



HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: 1"=10'



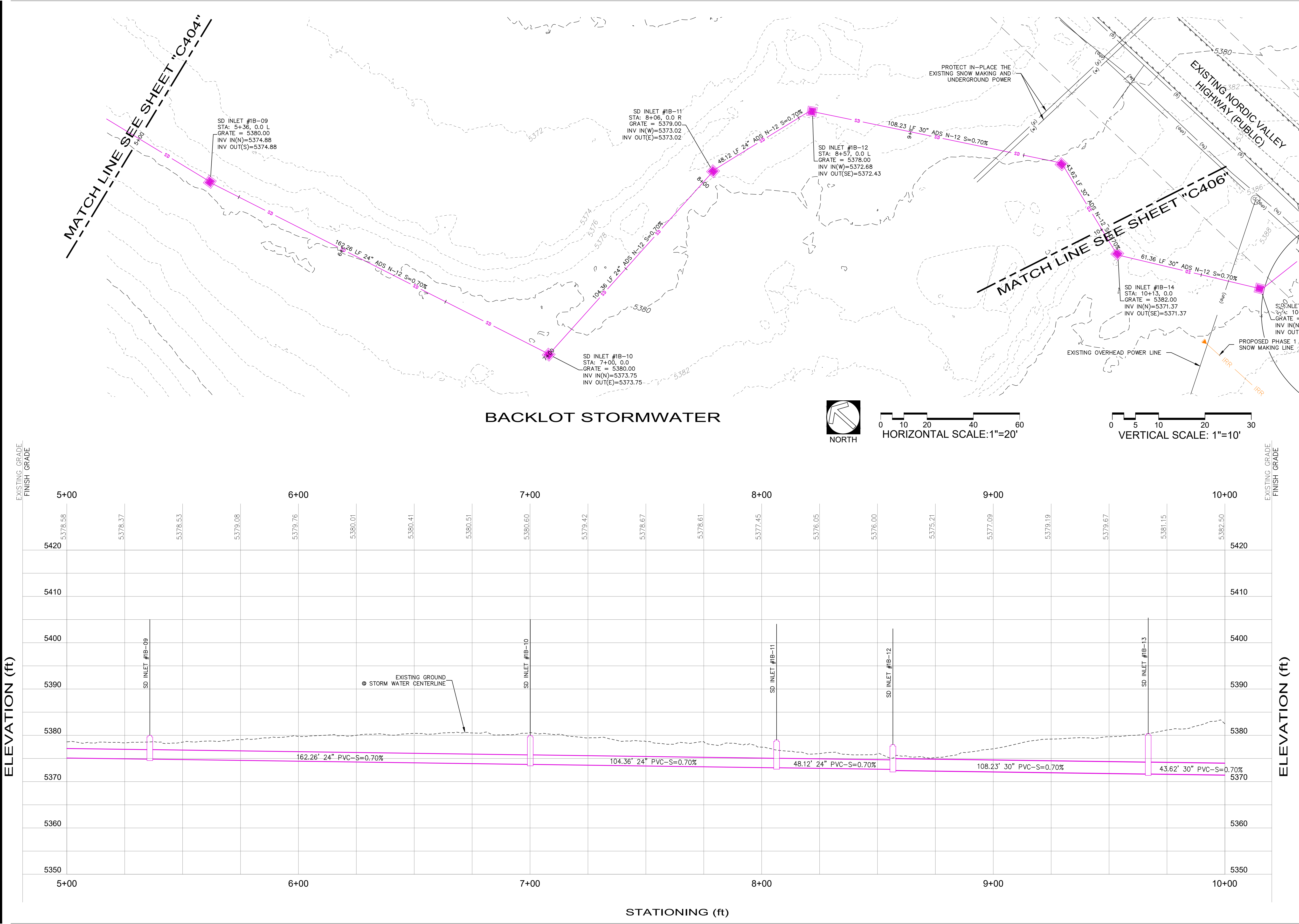
NORDIC PHASE 1B CONSTRUCTION DRAWINGS



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	08/21/2025: NEW SHEET FOR BACKLOT STORMWATER PLAN AND PROFILE
•	
•	
•	
SHEET TITLE:	BACKLOT STORMWATER PLAN AND PROFILE STA 0+00 - 500

SHEET: **C404**

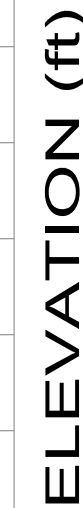
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**NORDIC PHASE 1B
CONSTRUCTION DRAWINGS**



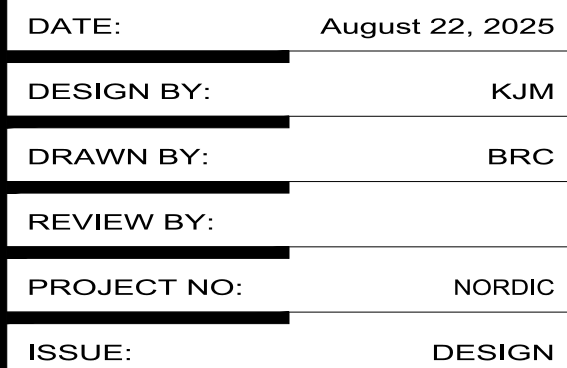
DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
	08/21/2025: NEW SHEET FOR BACKLOT STORMWATER PLAN AND PROFILE
SHEET TITLE:	BACKLOT STORMWATER PLAN AND PROFILE STA 5+00 - 10+00
SHEET:	C405



MULHOLLAND
DEVELOPMENT SOLUTIONS

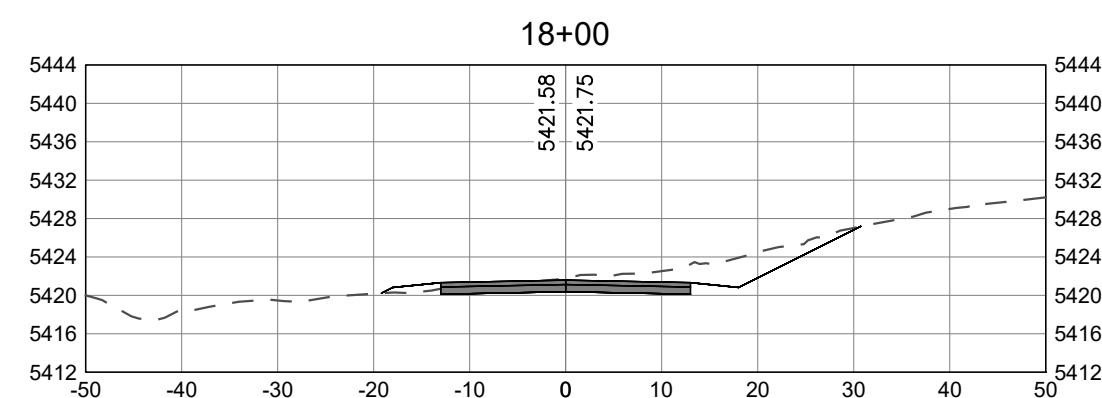
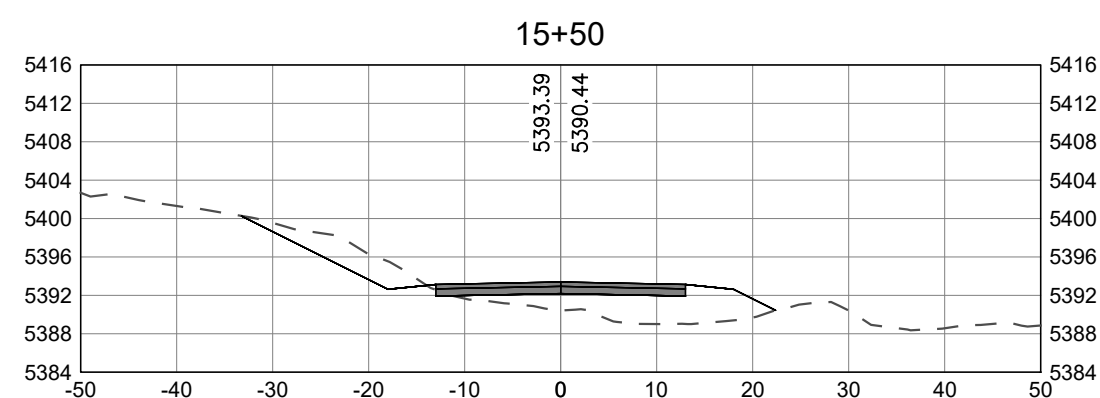
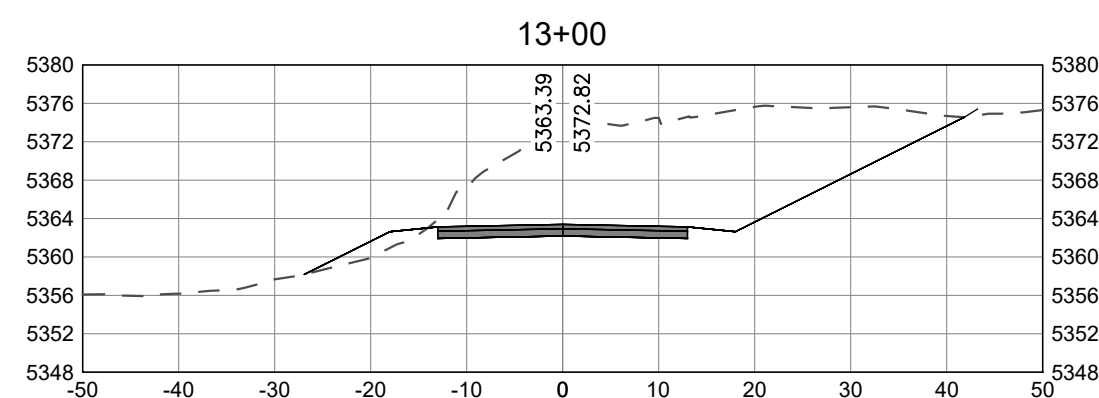
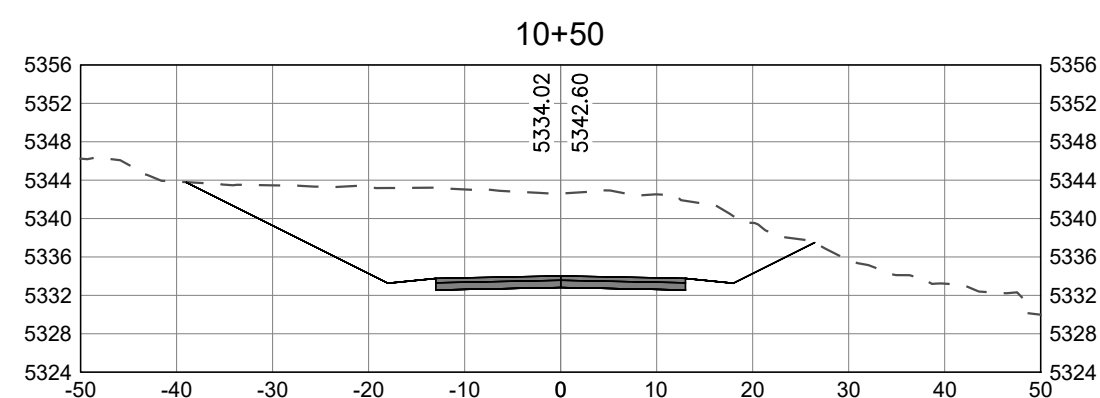
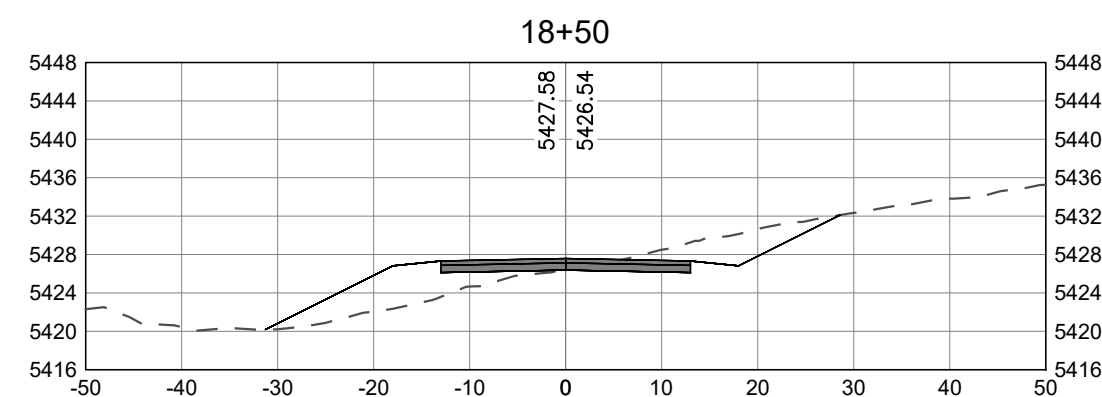
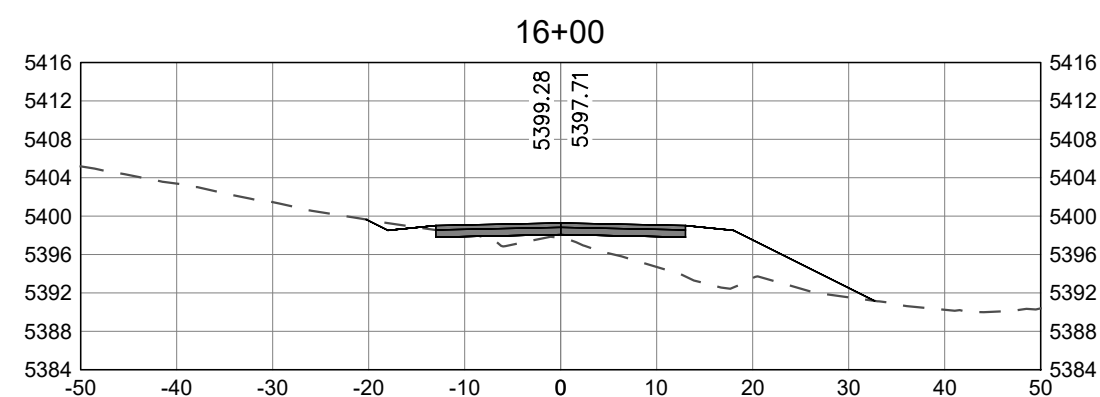
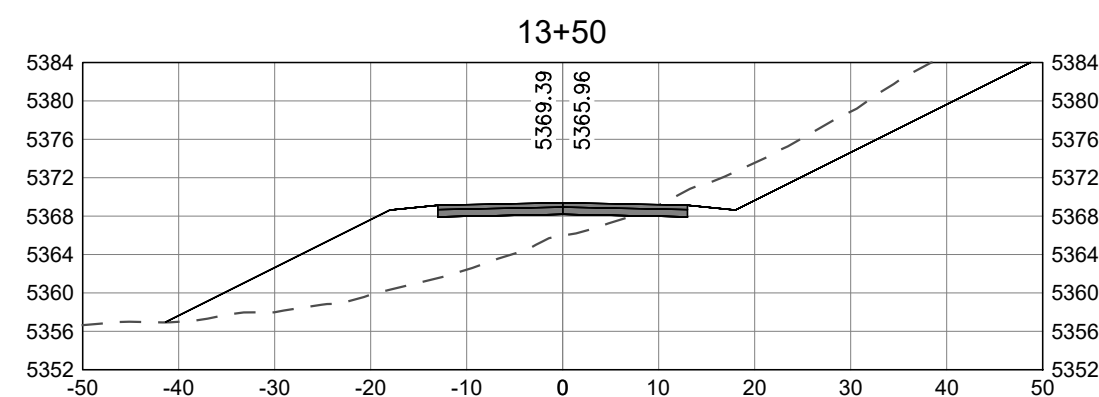
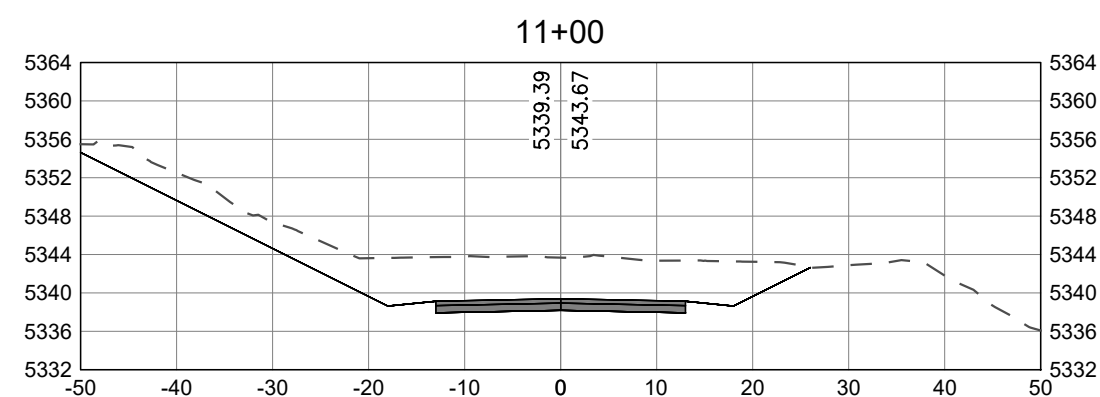
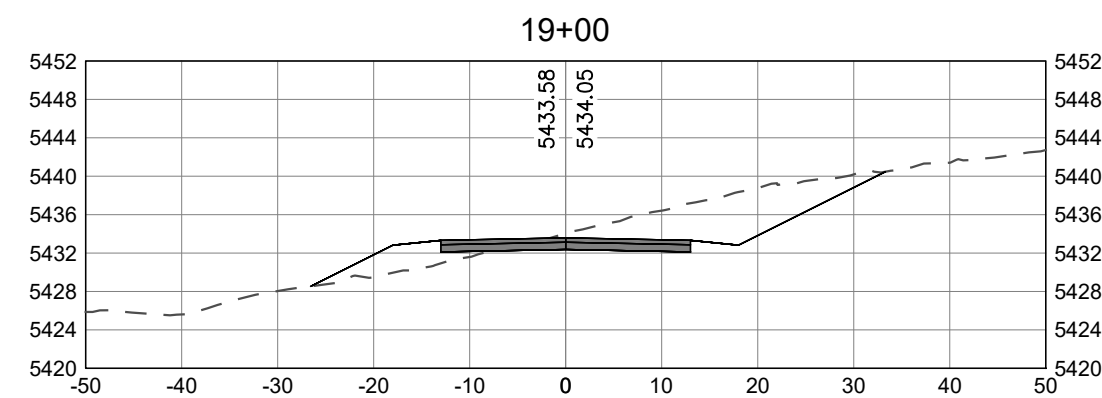
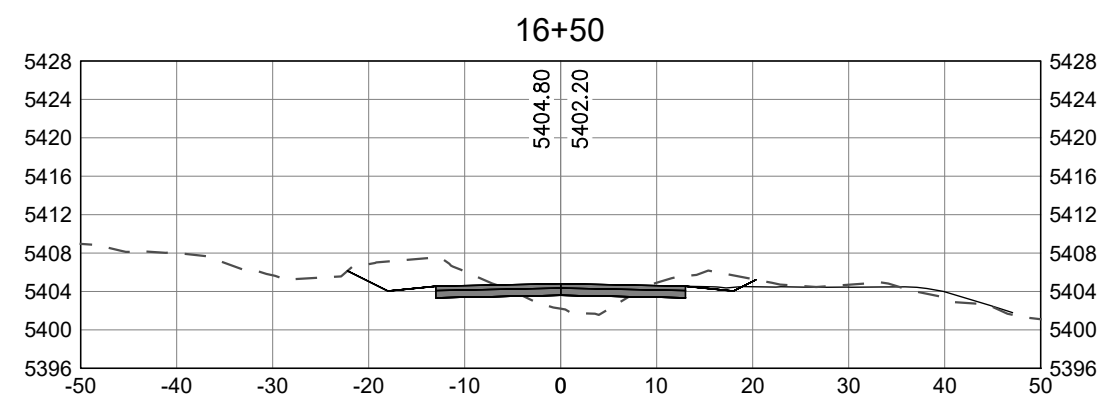
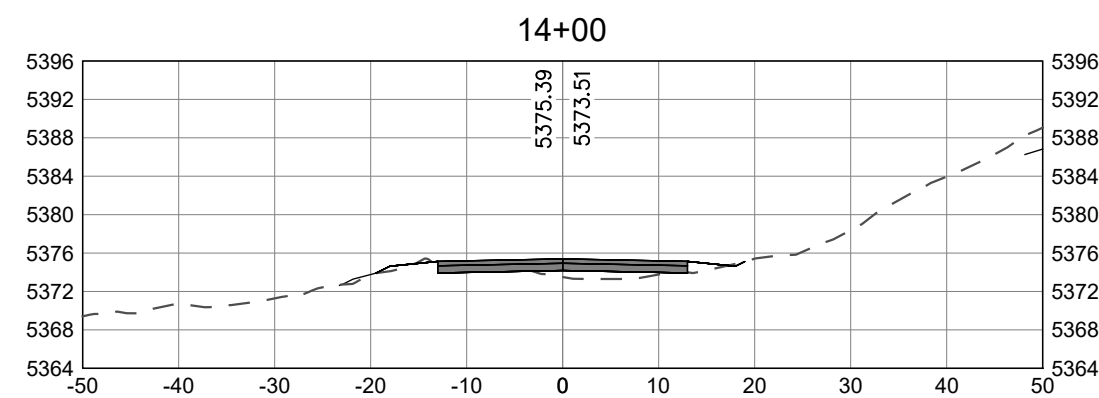
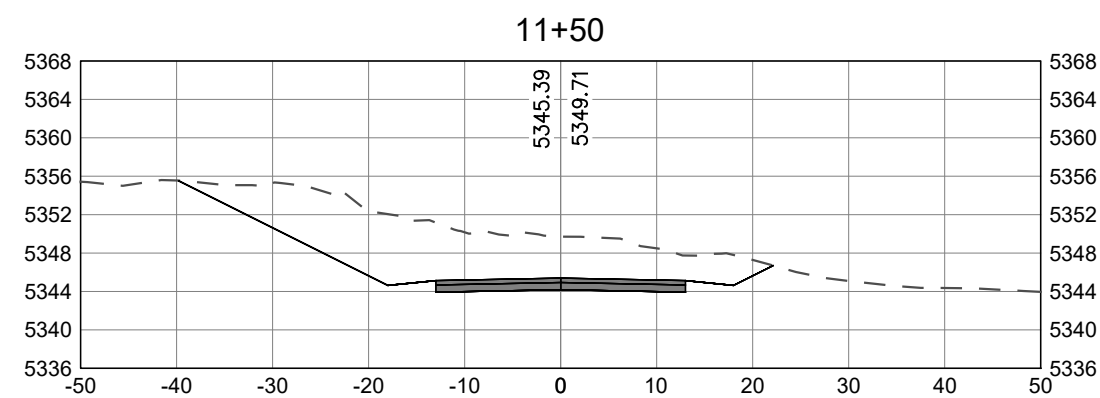
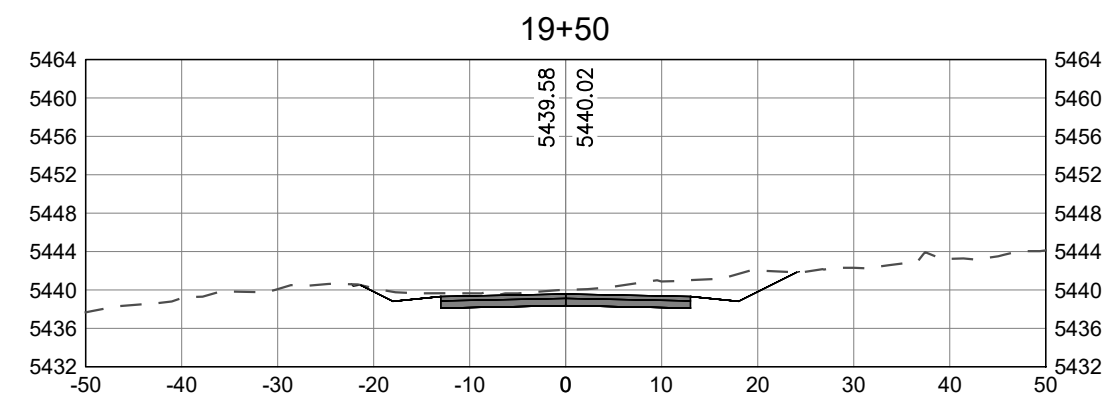
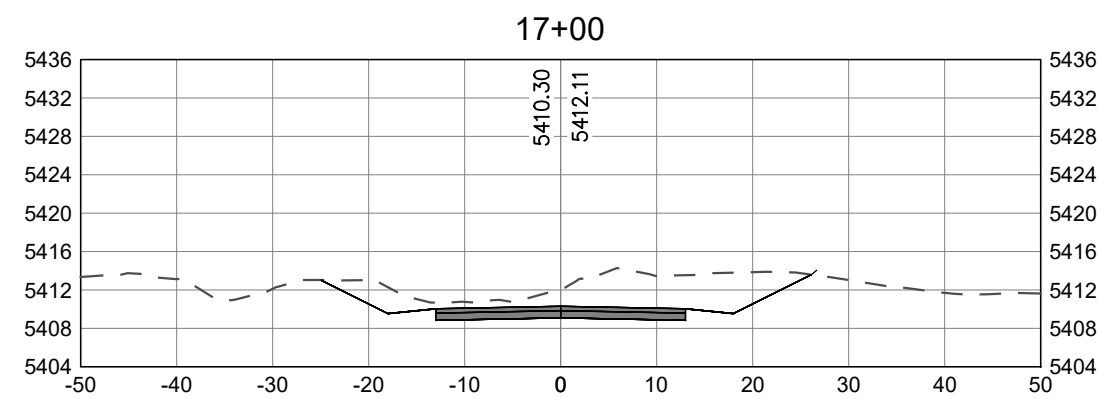
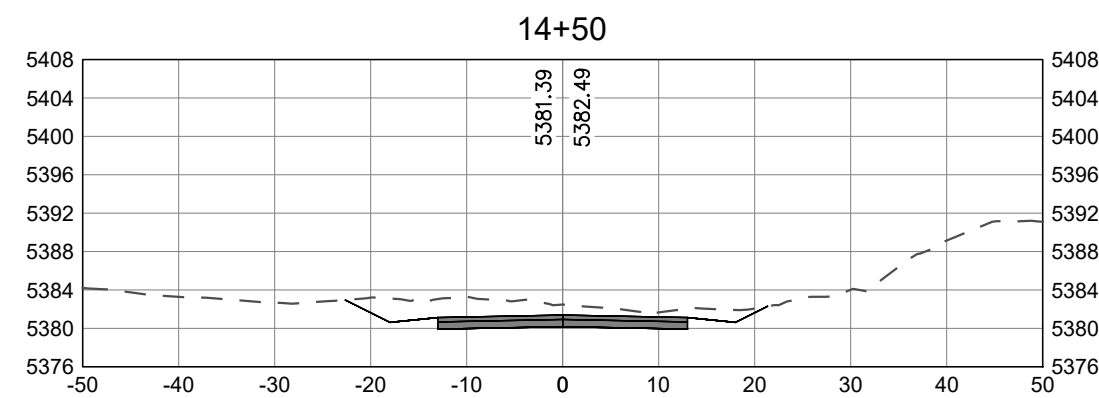
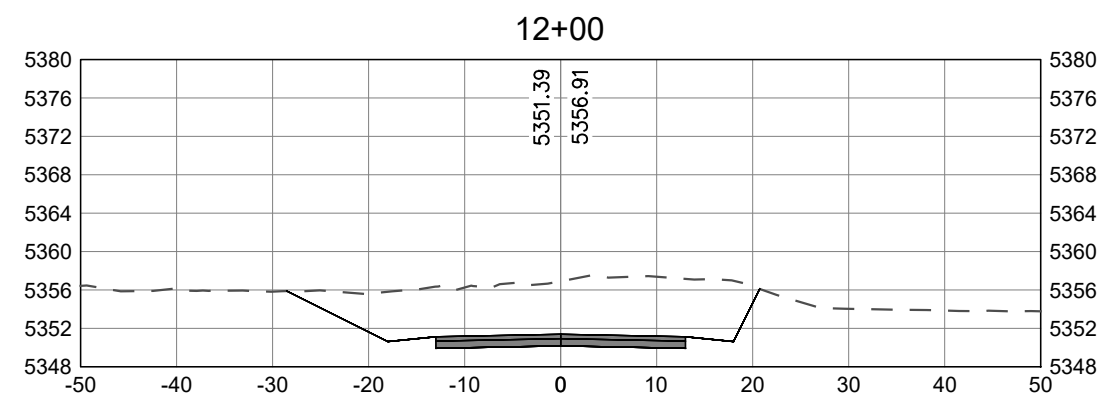
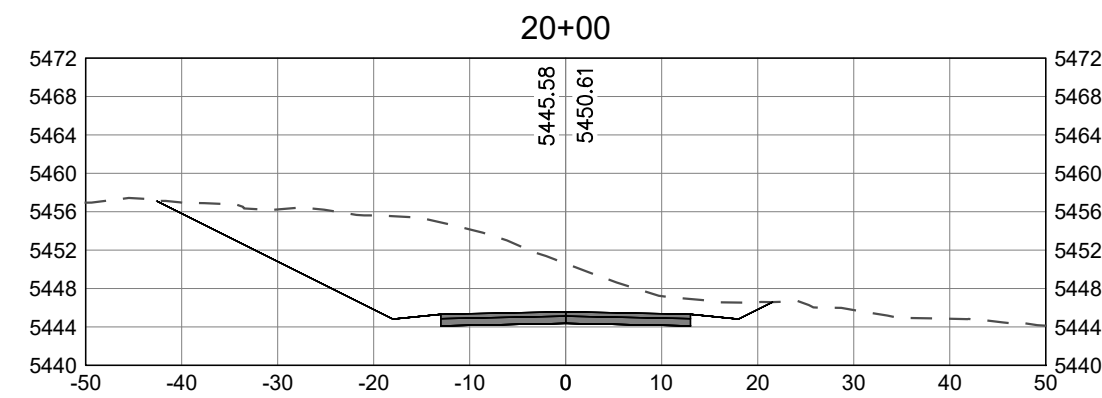
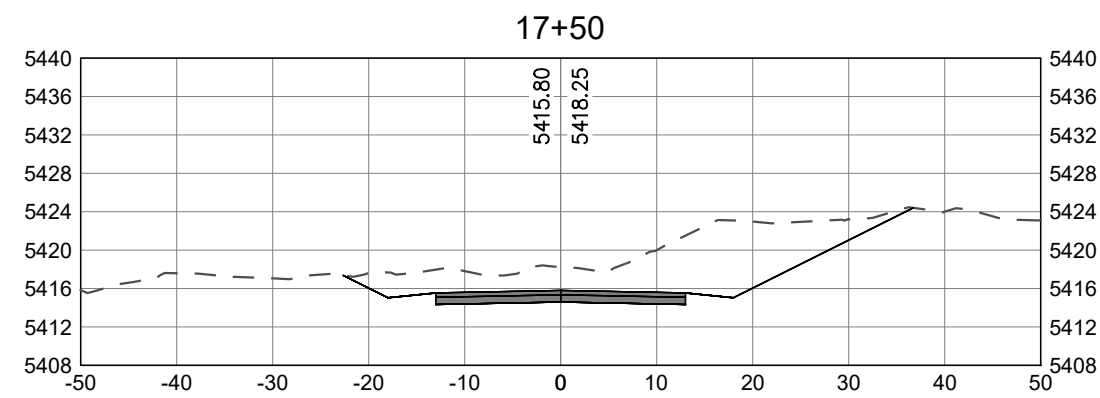
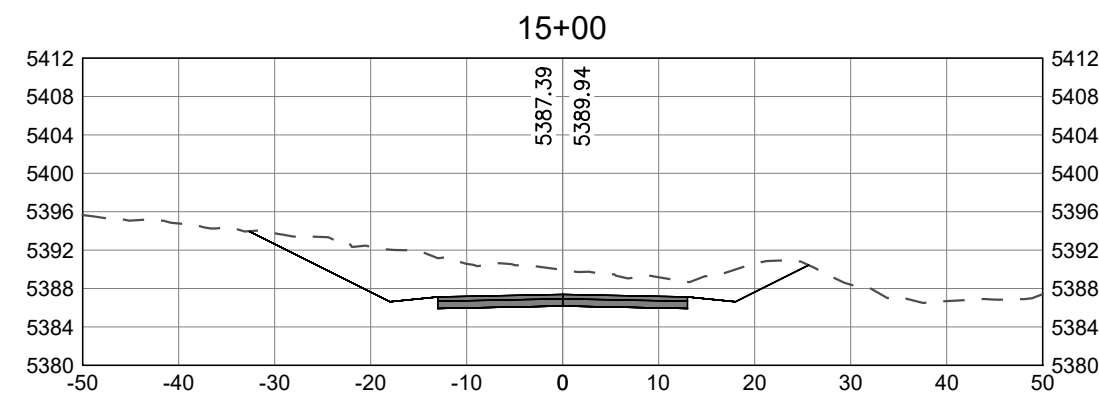
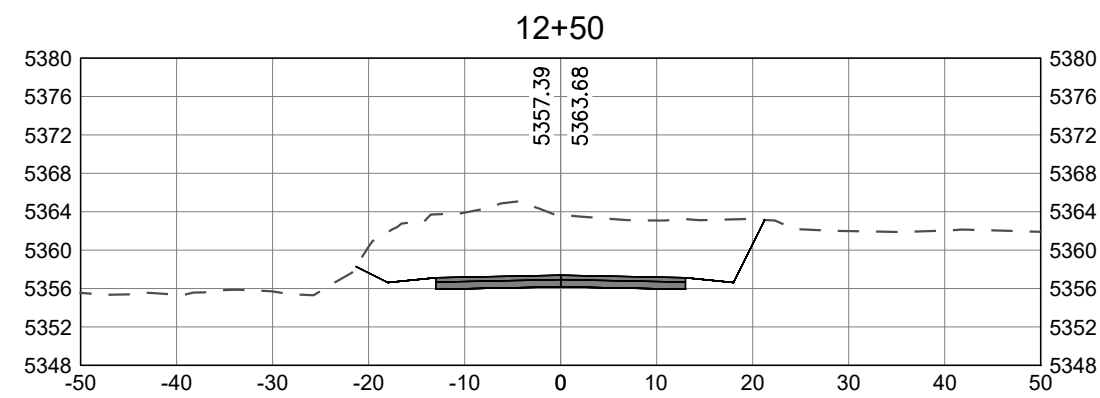
kristian@mulholland-development.com

P.O. BOX 680925
PARK CITY, UTAH 84068
(435.901.2940 (c))



SHEET:  C406

path: D:\MDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C501_Nordic Phase 1B Cross Sections.dwg | plot date: July 22, 2025 | plotted by: Ron



NORDIC PHASE 1B
CONSTRUCTION DRAWINGS

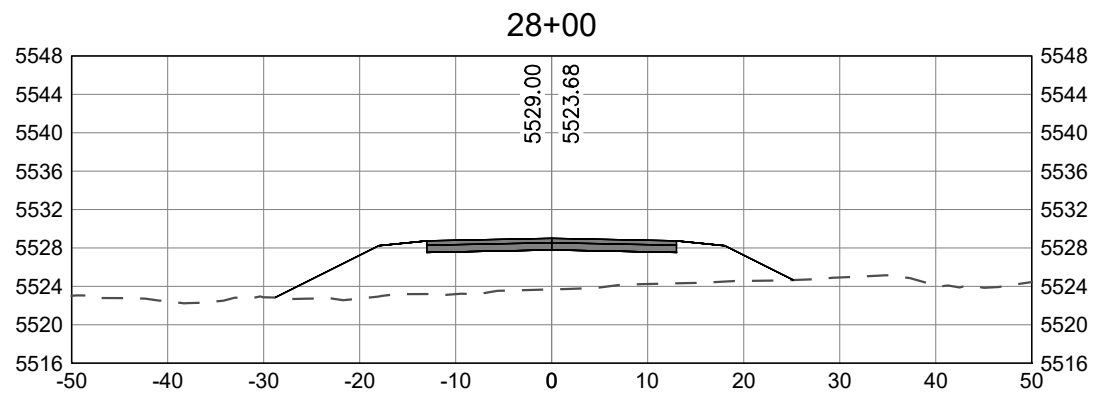
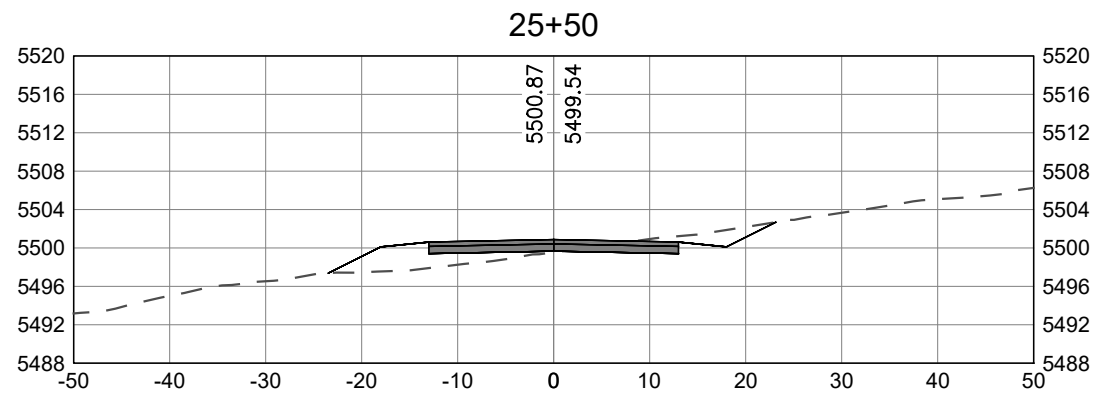
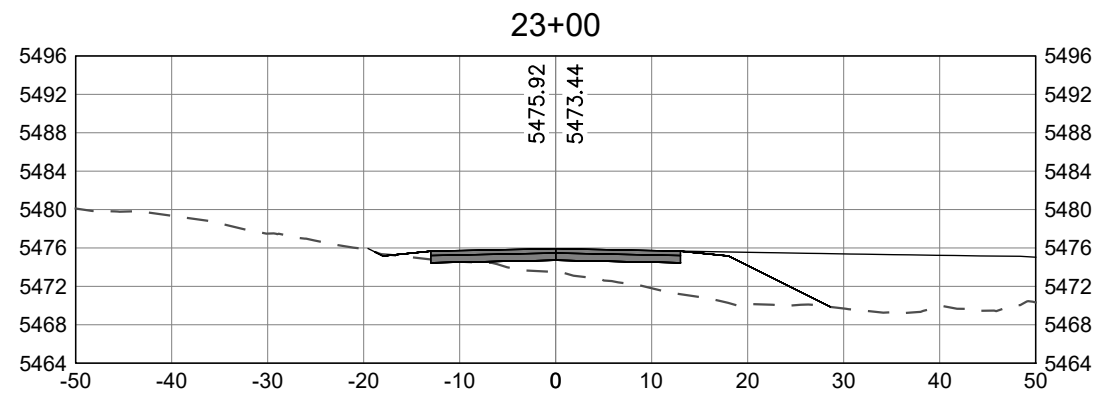
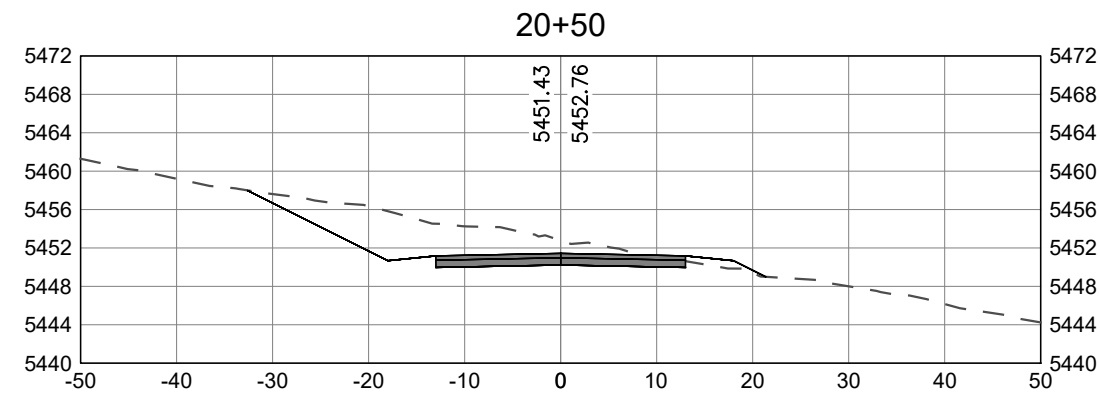
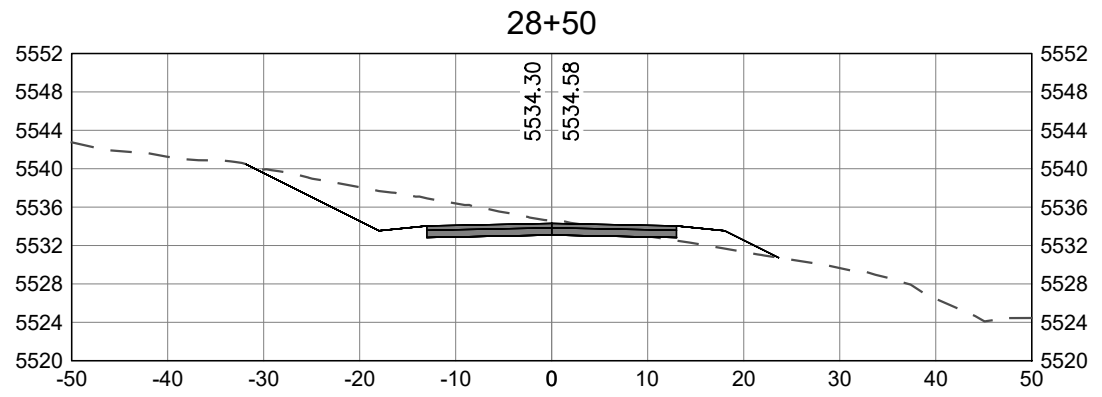
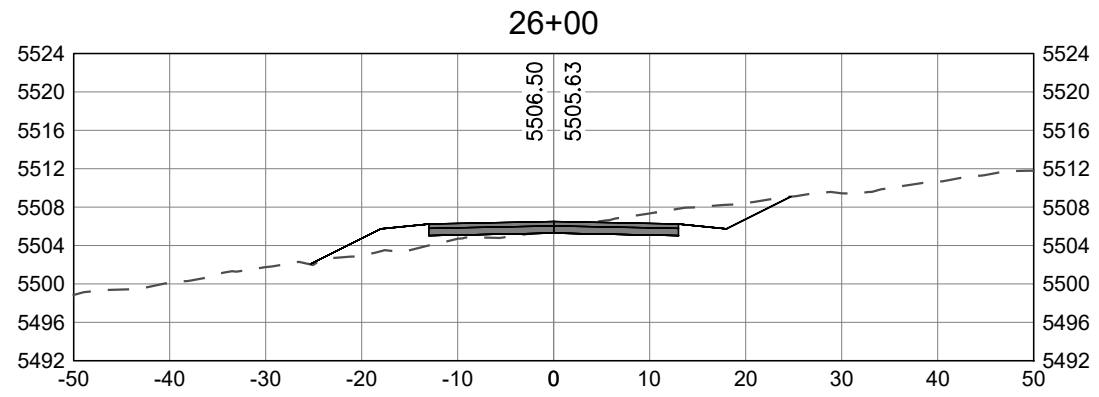
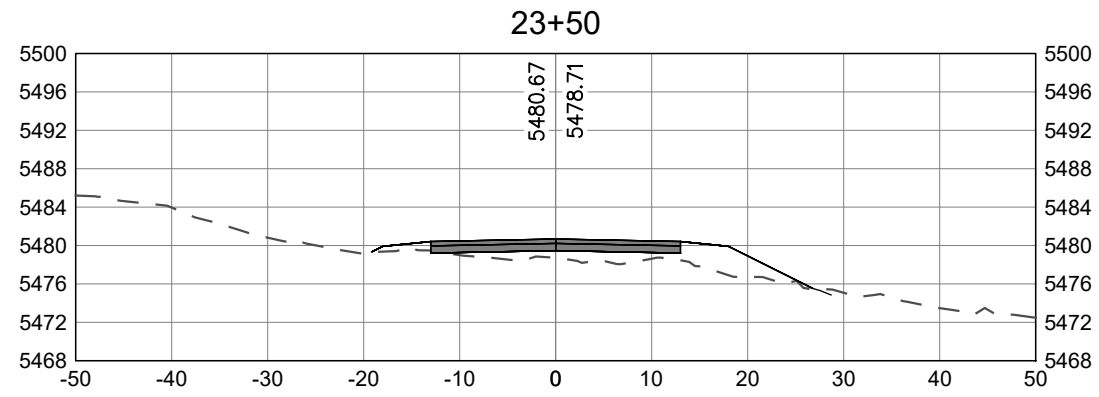
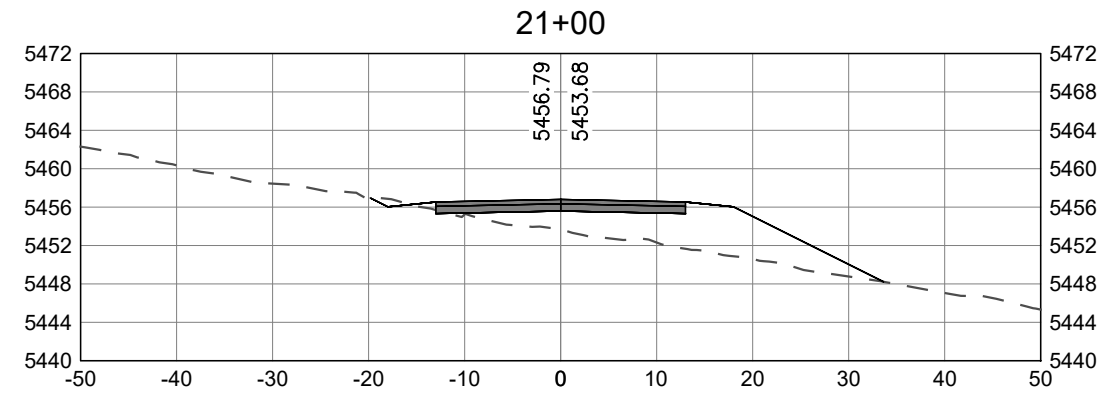
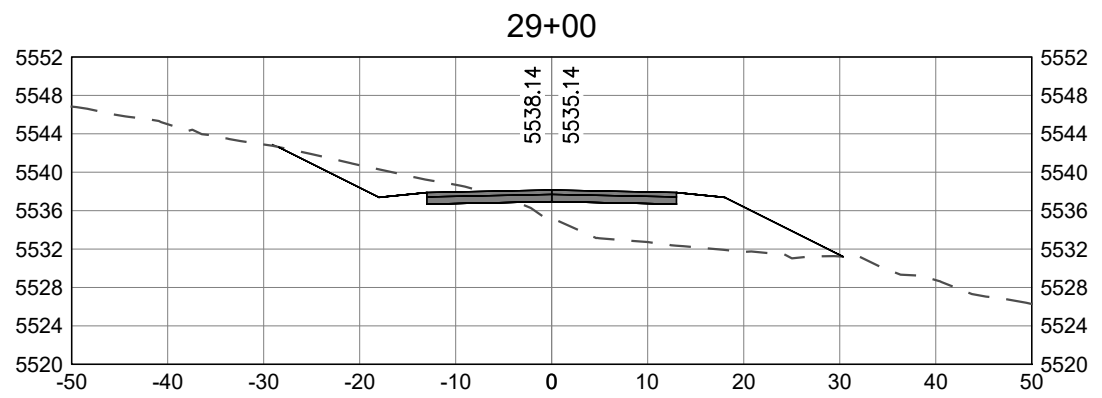
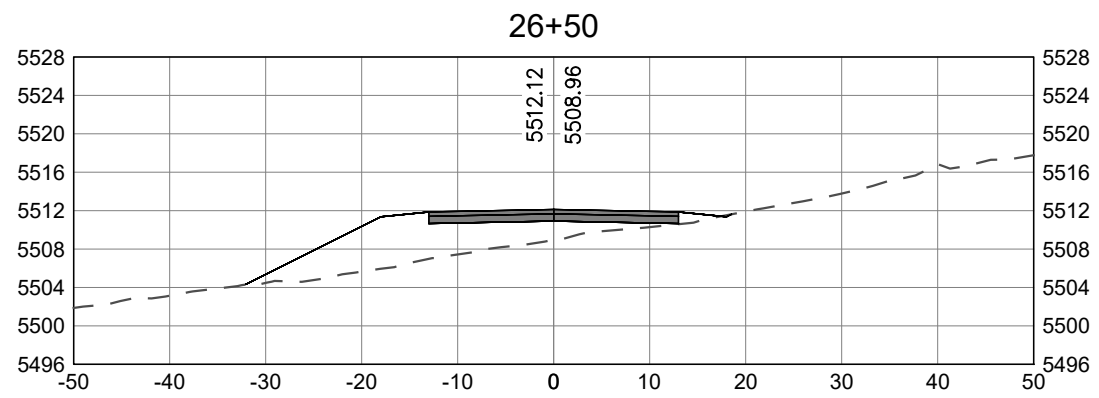
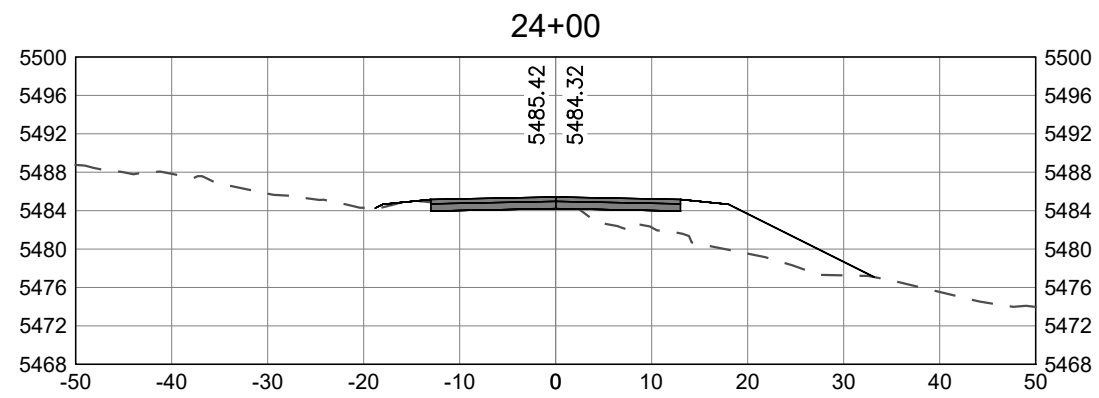
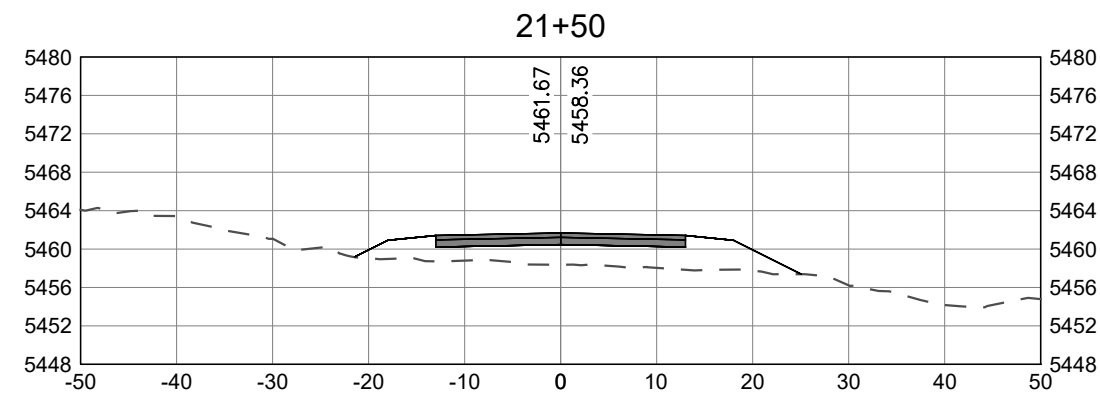
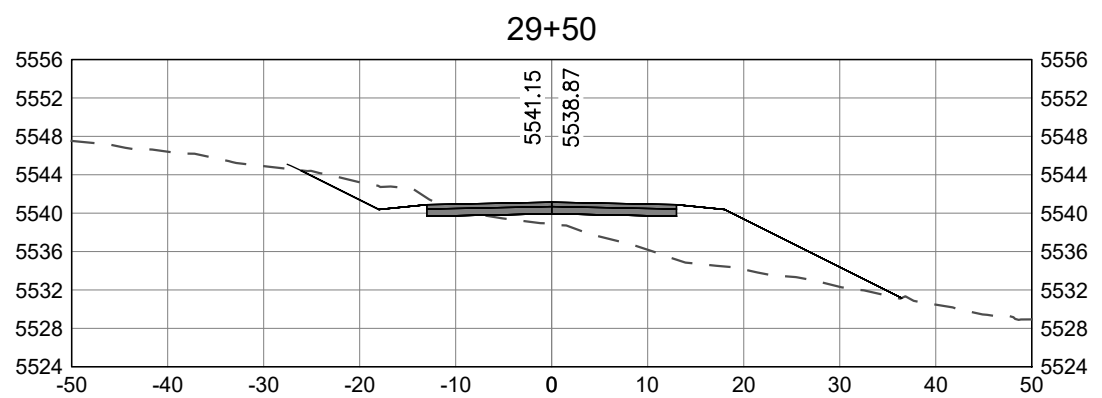
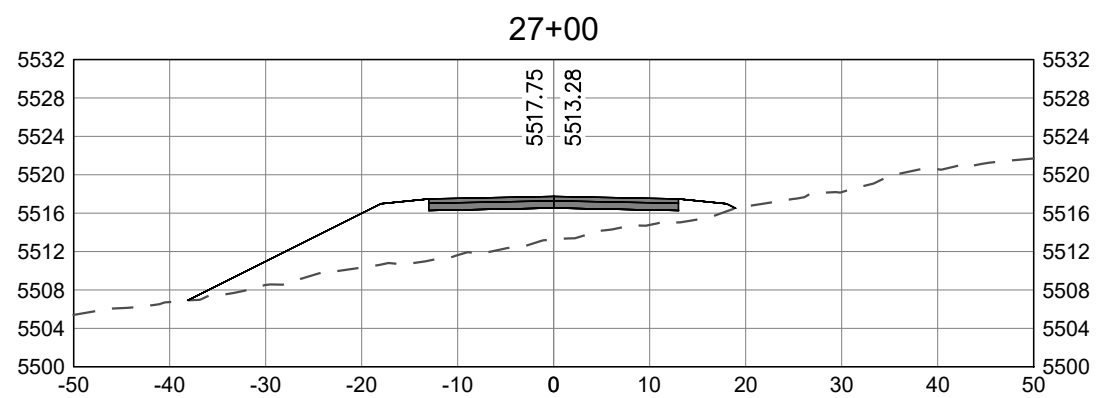
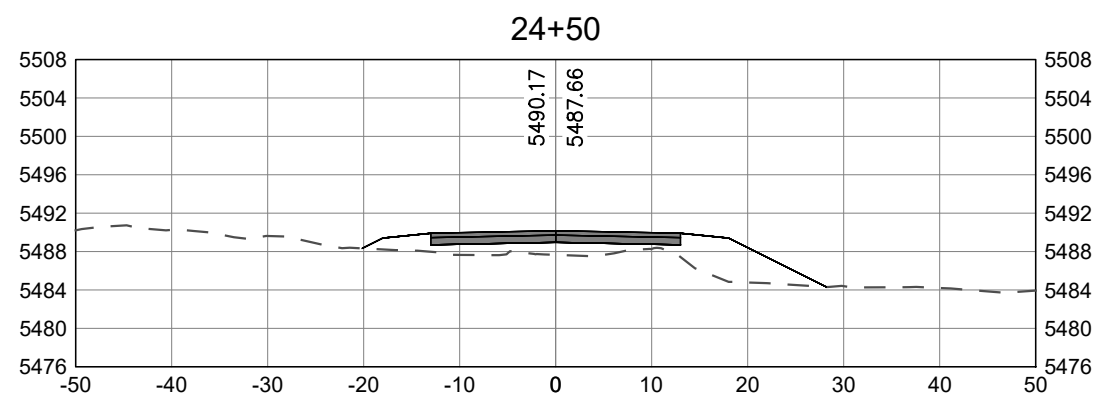
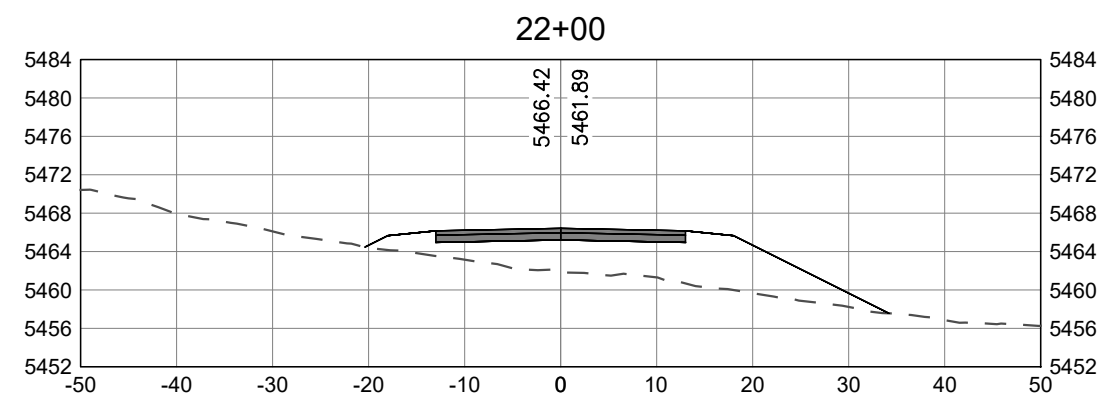
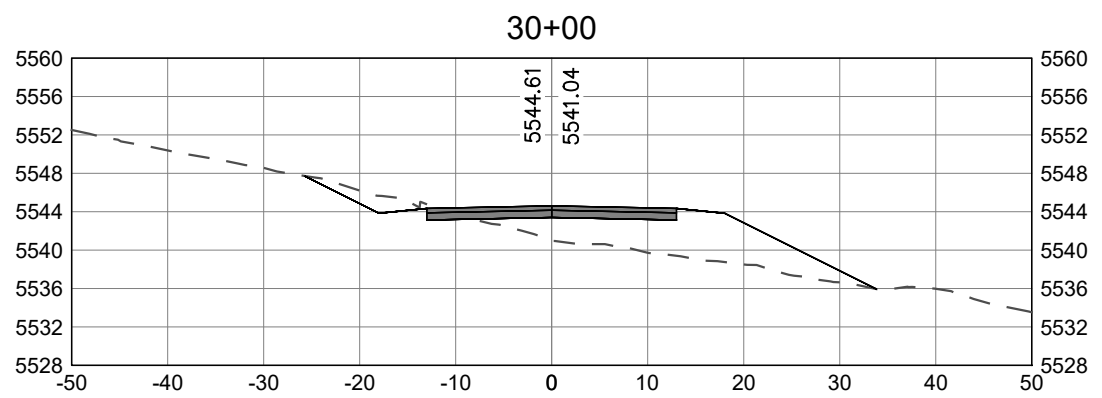
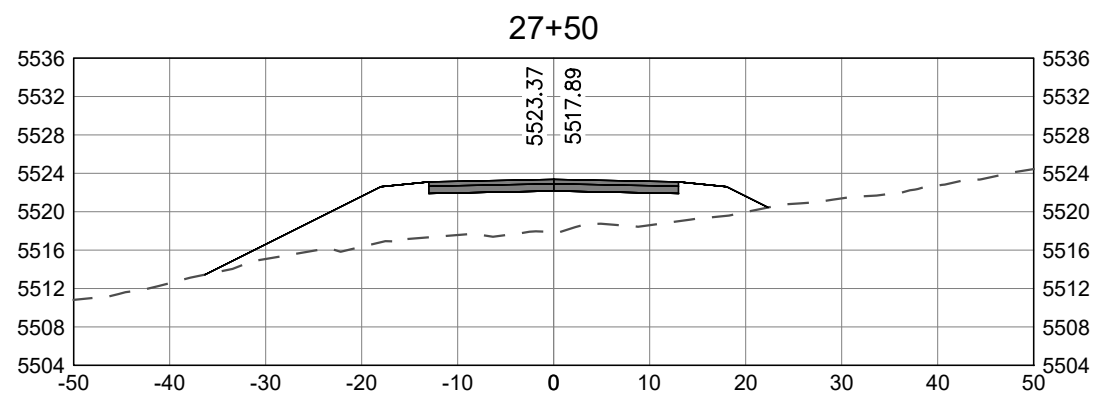
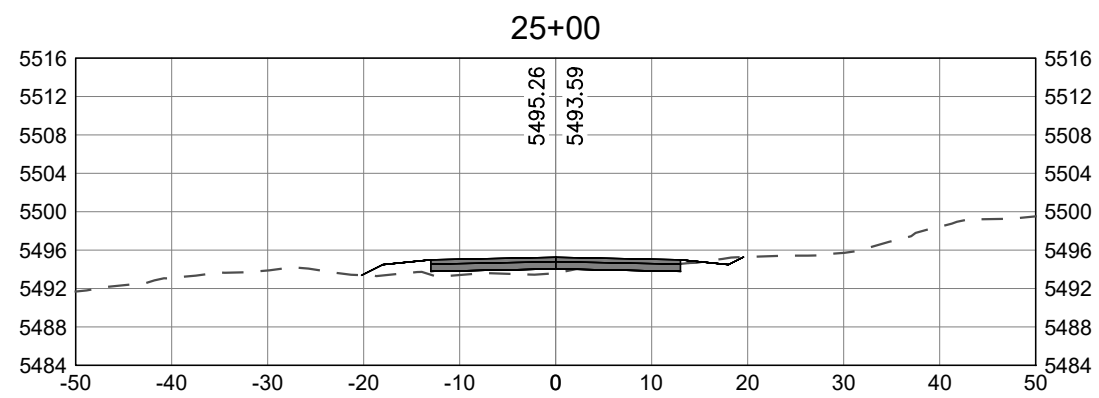
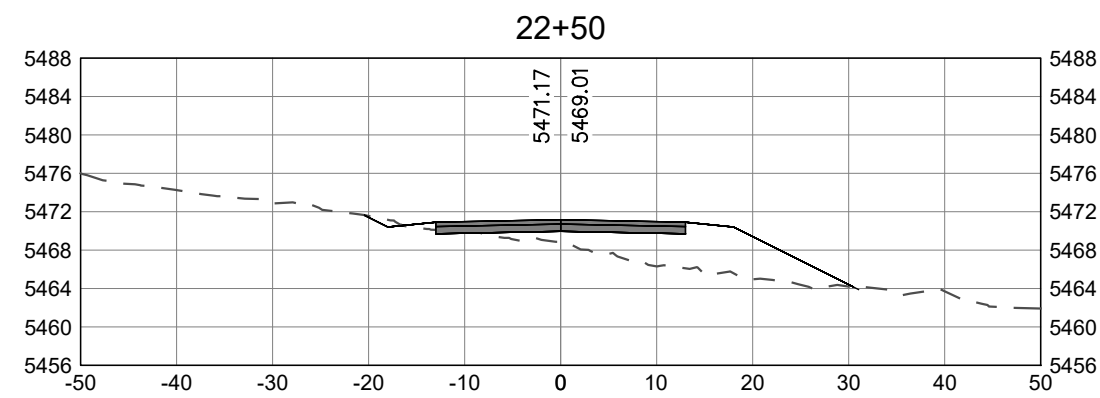


DATE:	July 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
•	
•	
•	
•	

SHEET TITLE:
ZOOM ZOOM ROAD
CROSS SECTIONS
STA 10+50 + 20+00

SHEET:
C501

path: D:\MDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C501_Nordic Phase 1B Cross Sections.dwg | plot date: July 22, 2025 | plotted by: Ron

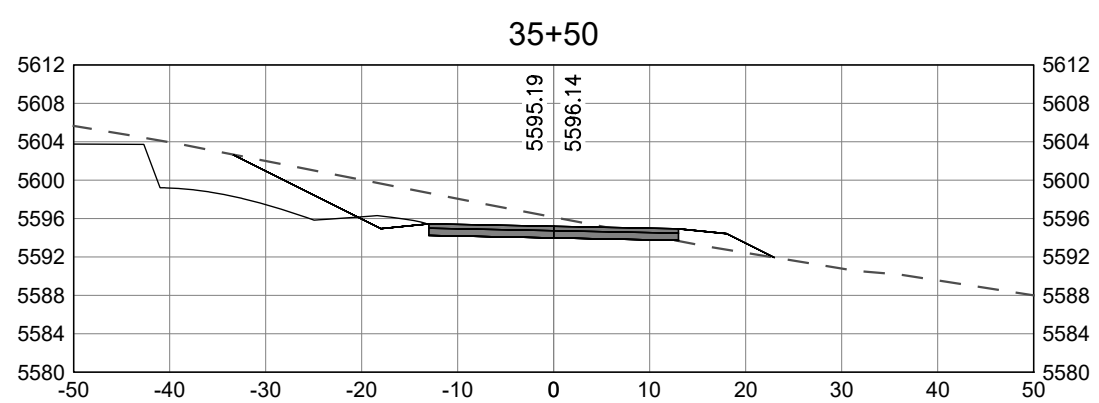
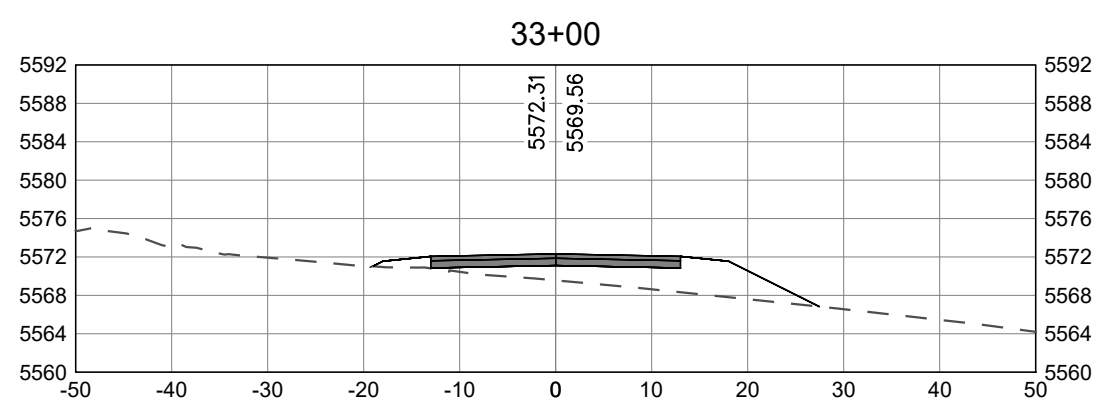
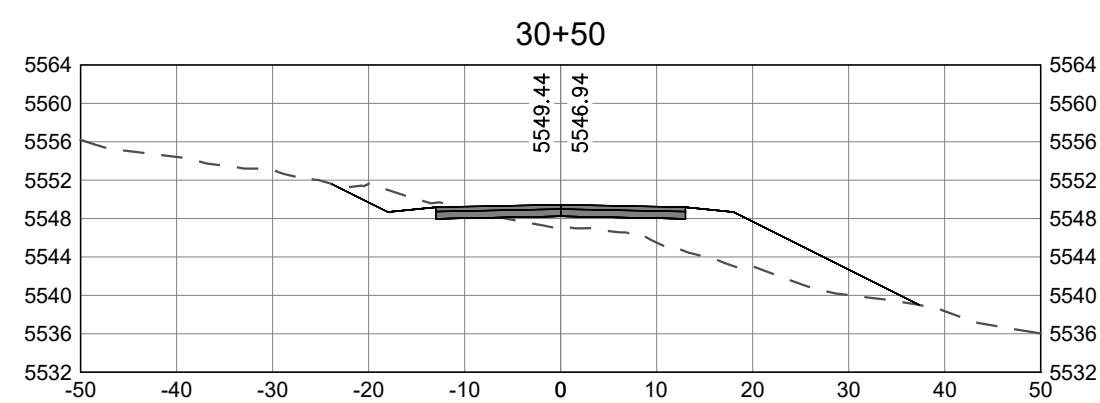
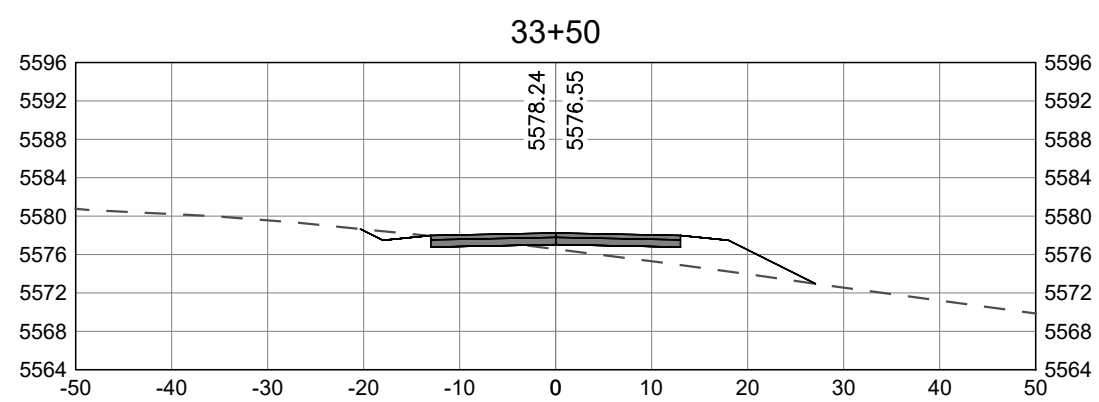
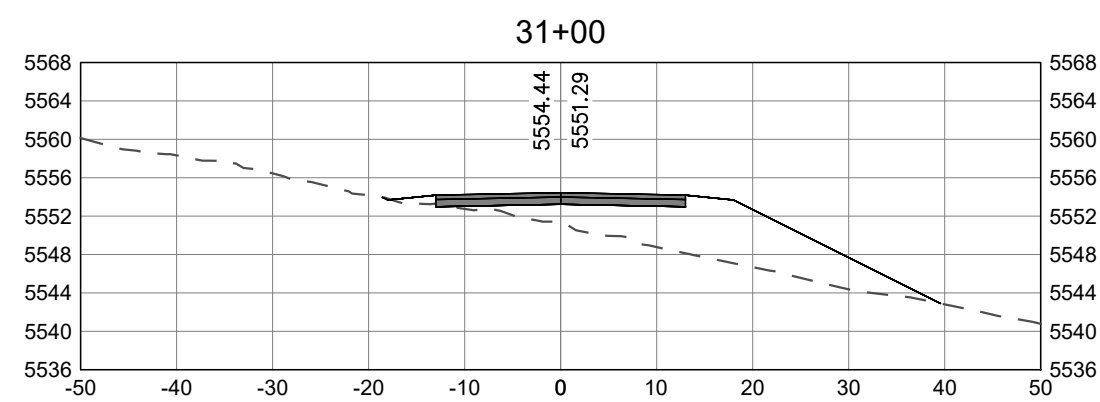
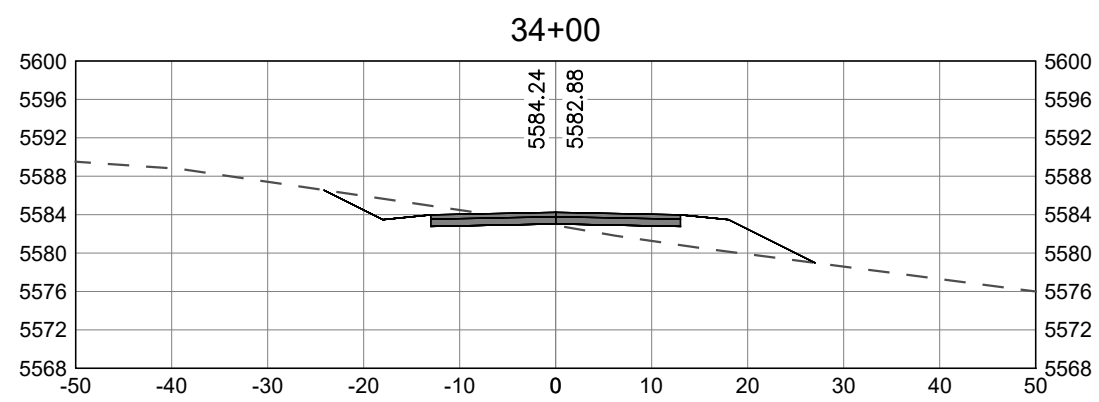
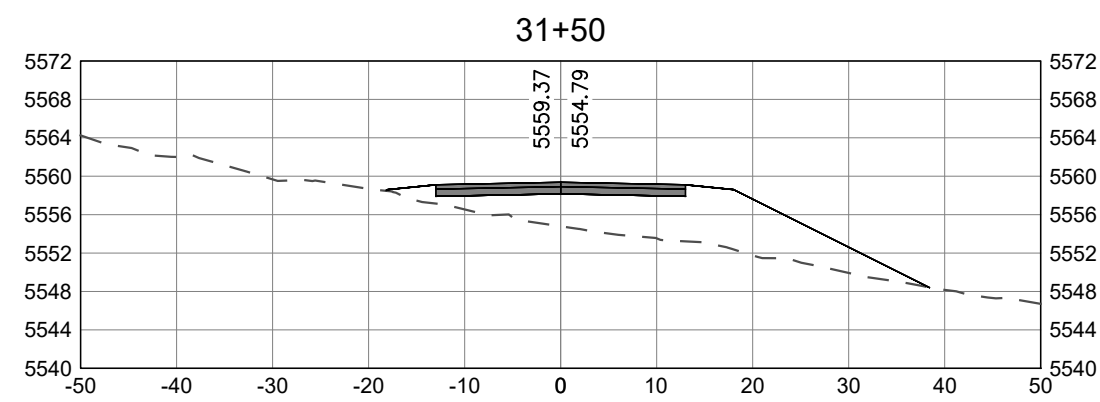
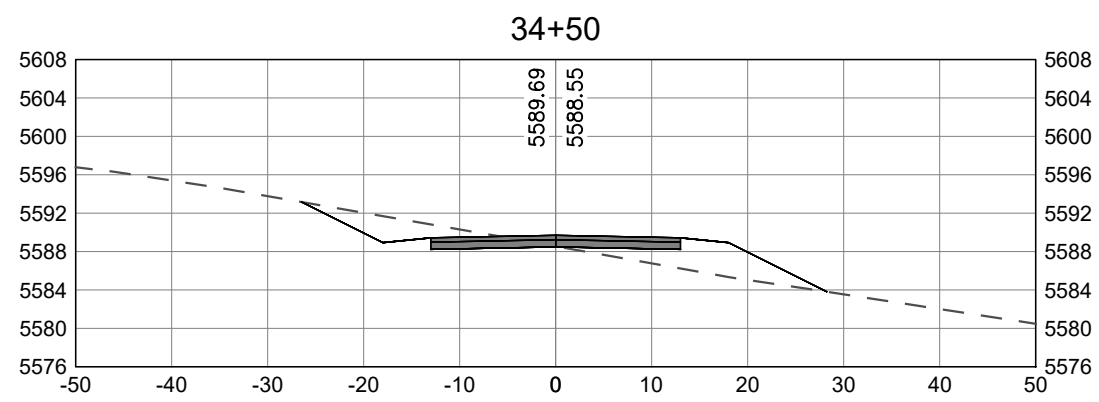
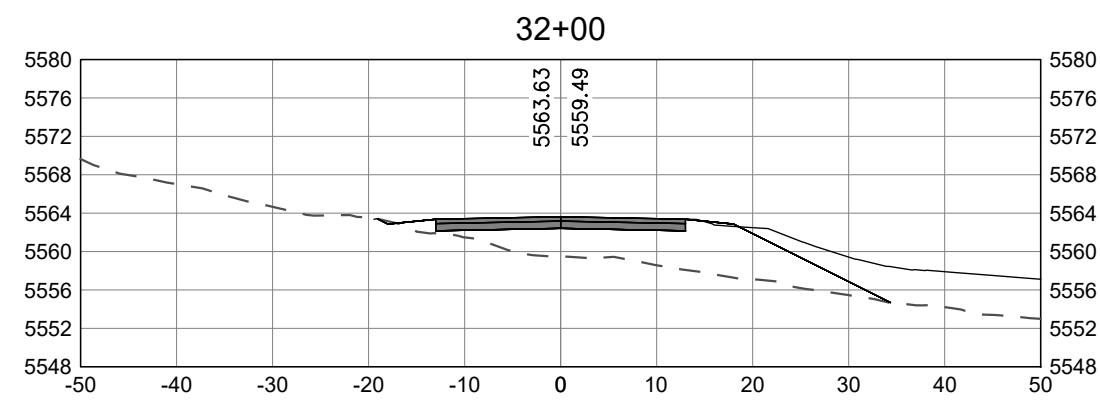
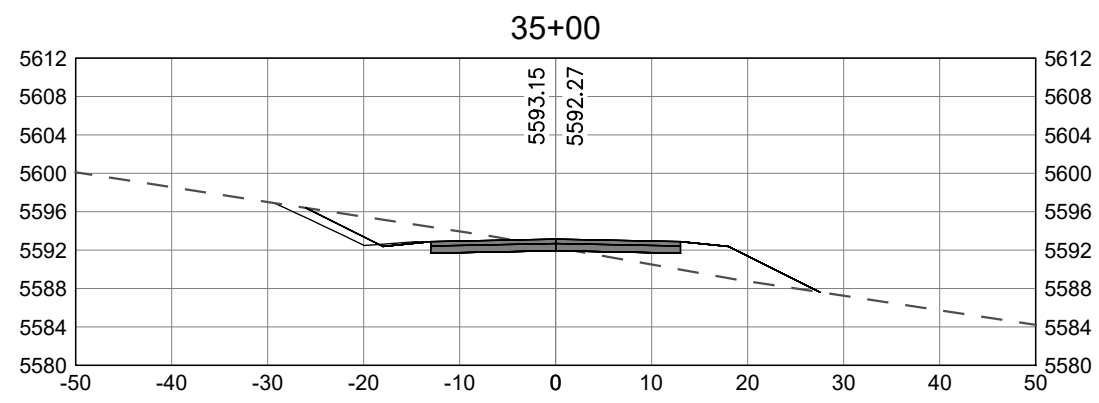
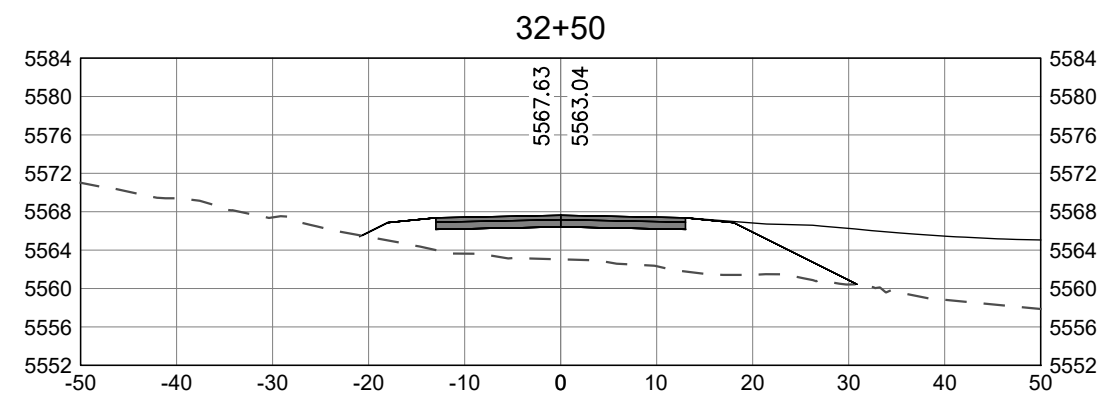


NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	July 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE:	ZOOM ZOOM ROAD CROSS SECTIONS STA 20+50 + 30+00
SHEET:	C502

path: D:\MDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C501_Nordic Phase 1B Cross Sections.dwg | plot date: July 22, 2025 | plotted by: Ron



DATE: July 22, 2025

DESIGN BY: KJM

DRAWN BY: BRC

REVIEW BY:

PROJECT NO: NORDIC

ISSUE: DESIGN

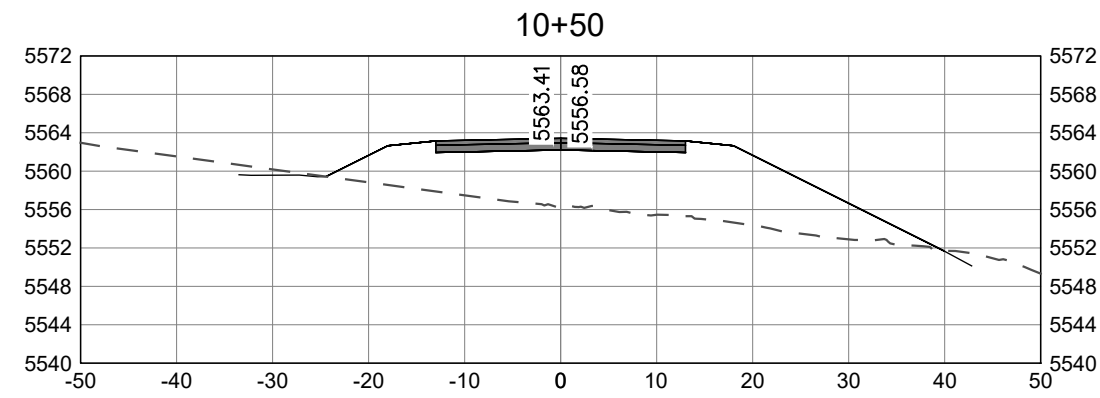
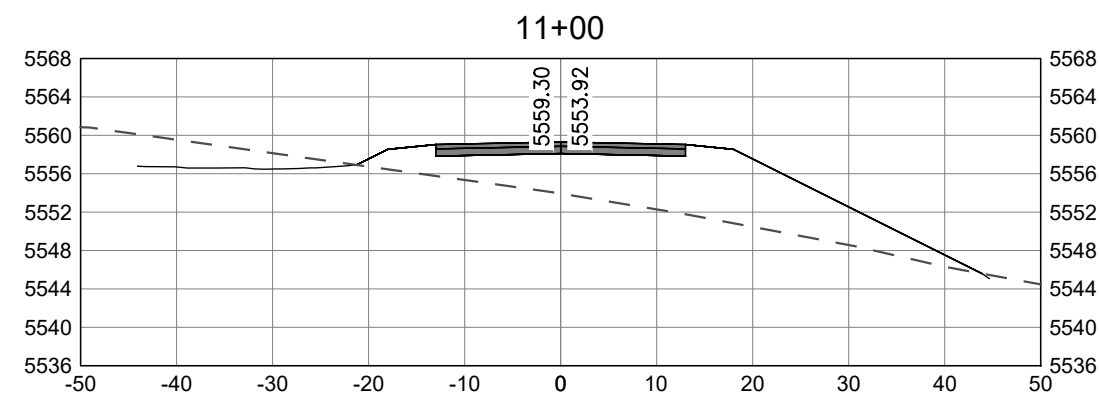
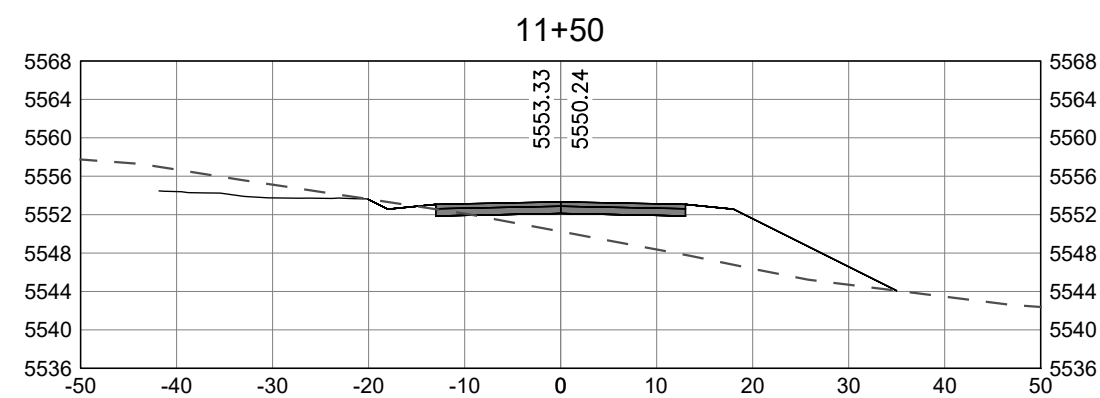
REVISIONS:

- *
- *
- *
- *
- *

SHEET TITLE:
ZOOM ZOOM ROAD
CROSS SECTIONS
STA 30+50 + END

SHEET:
C503

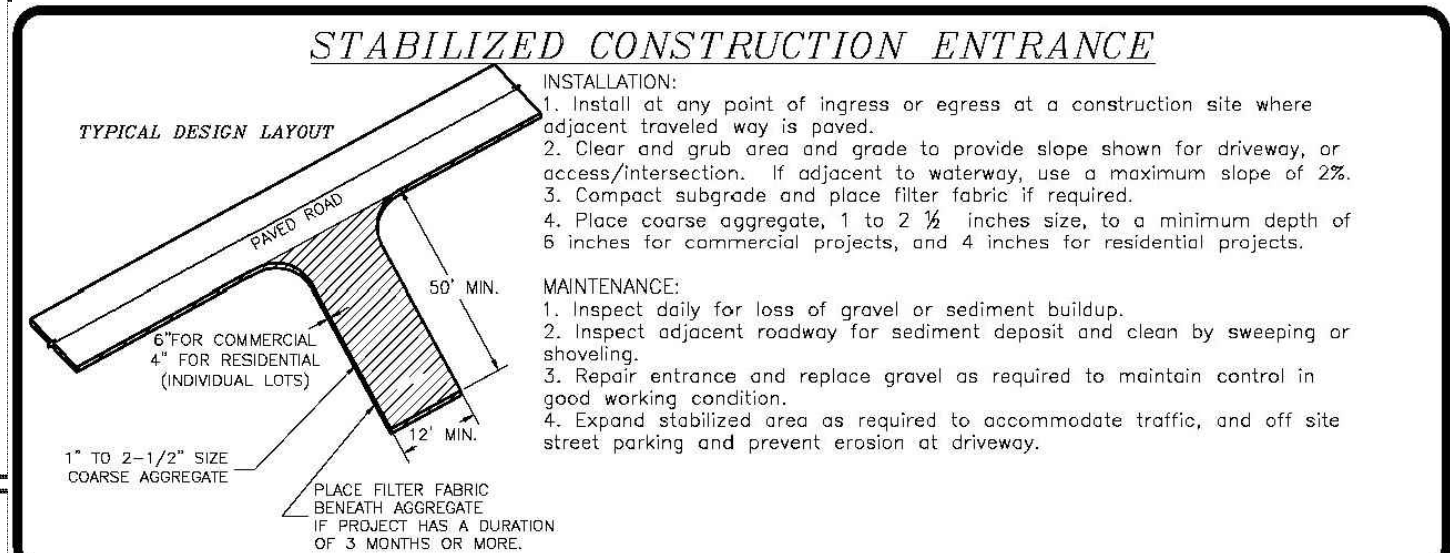
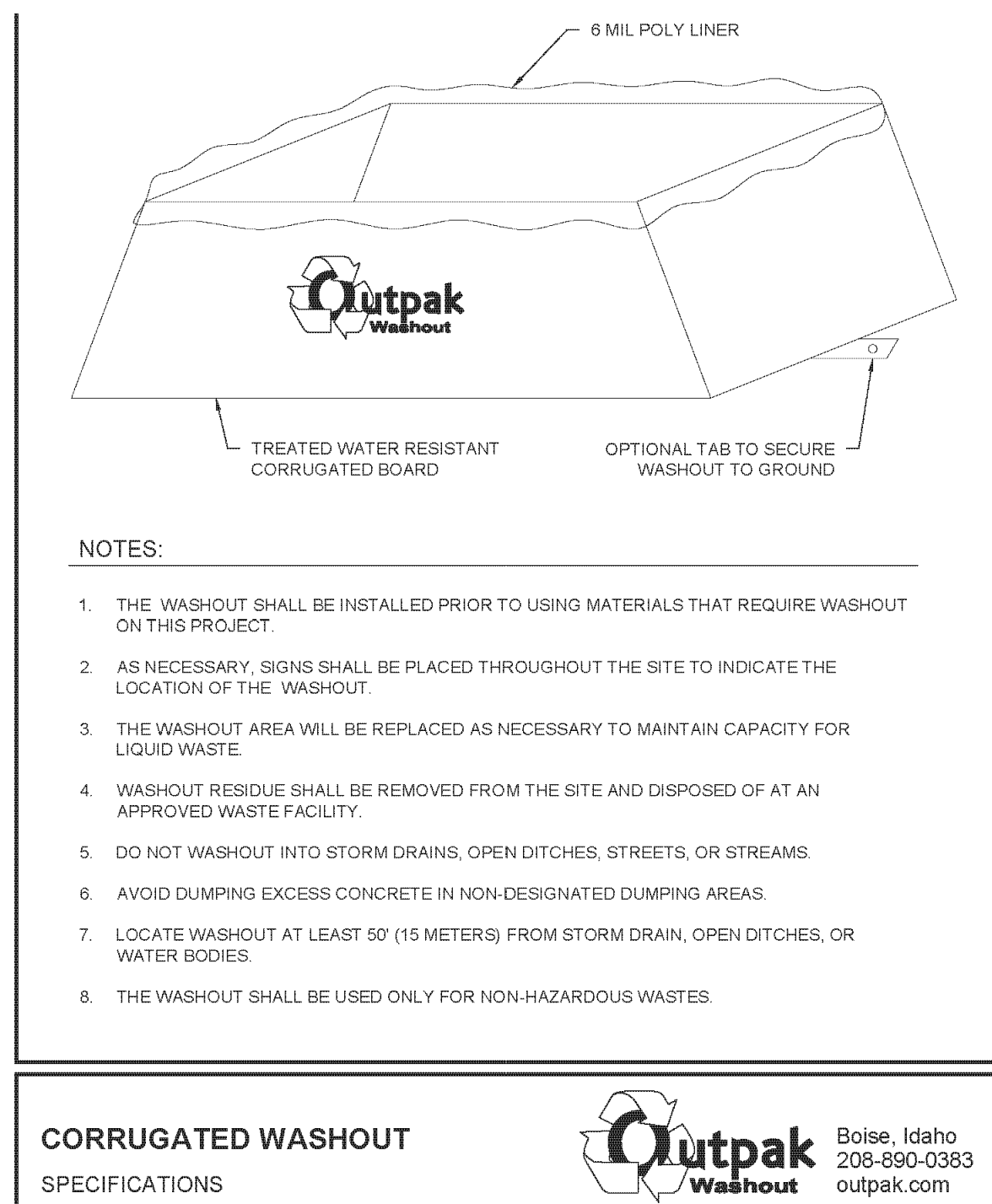
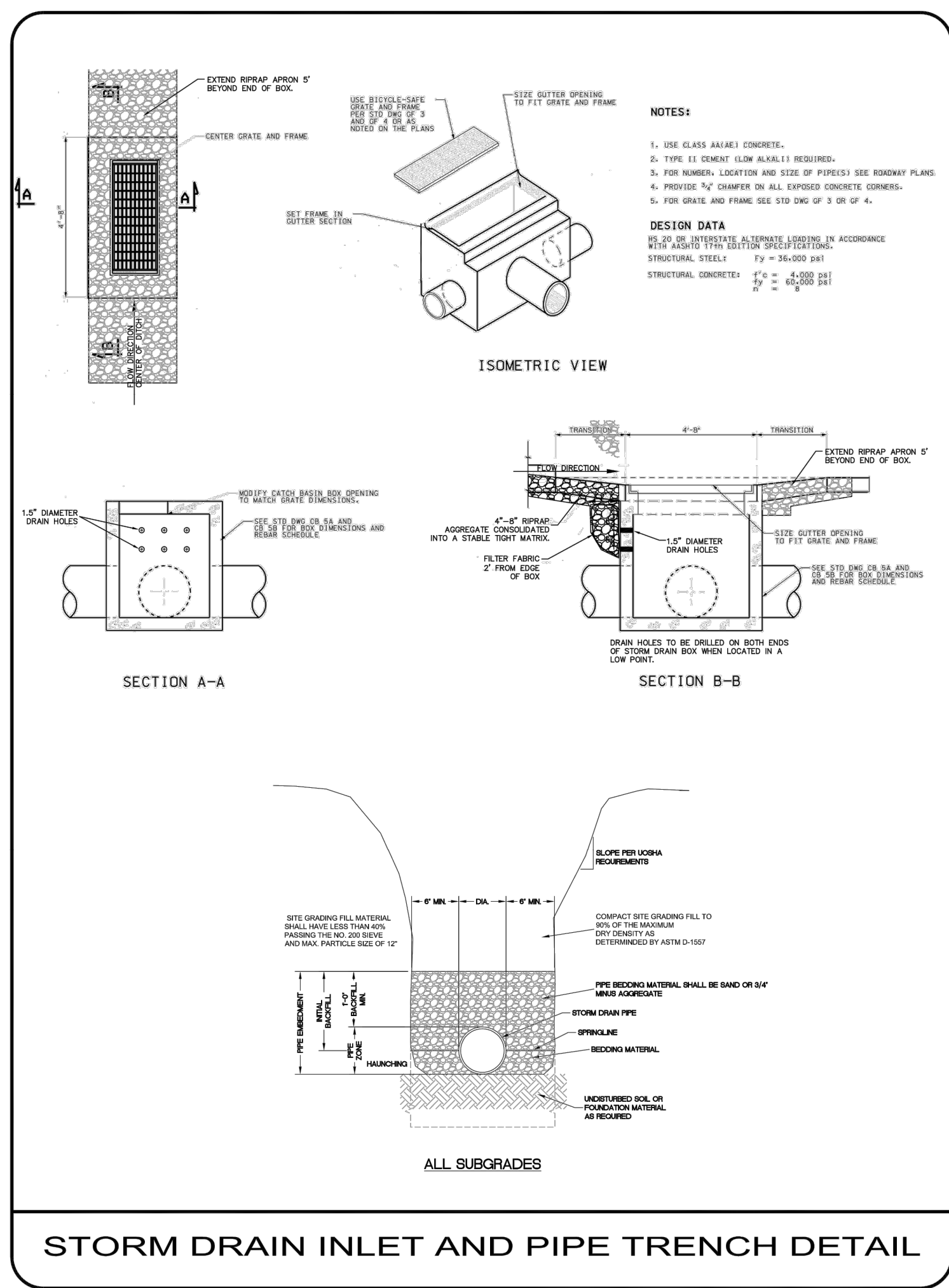
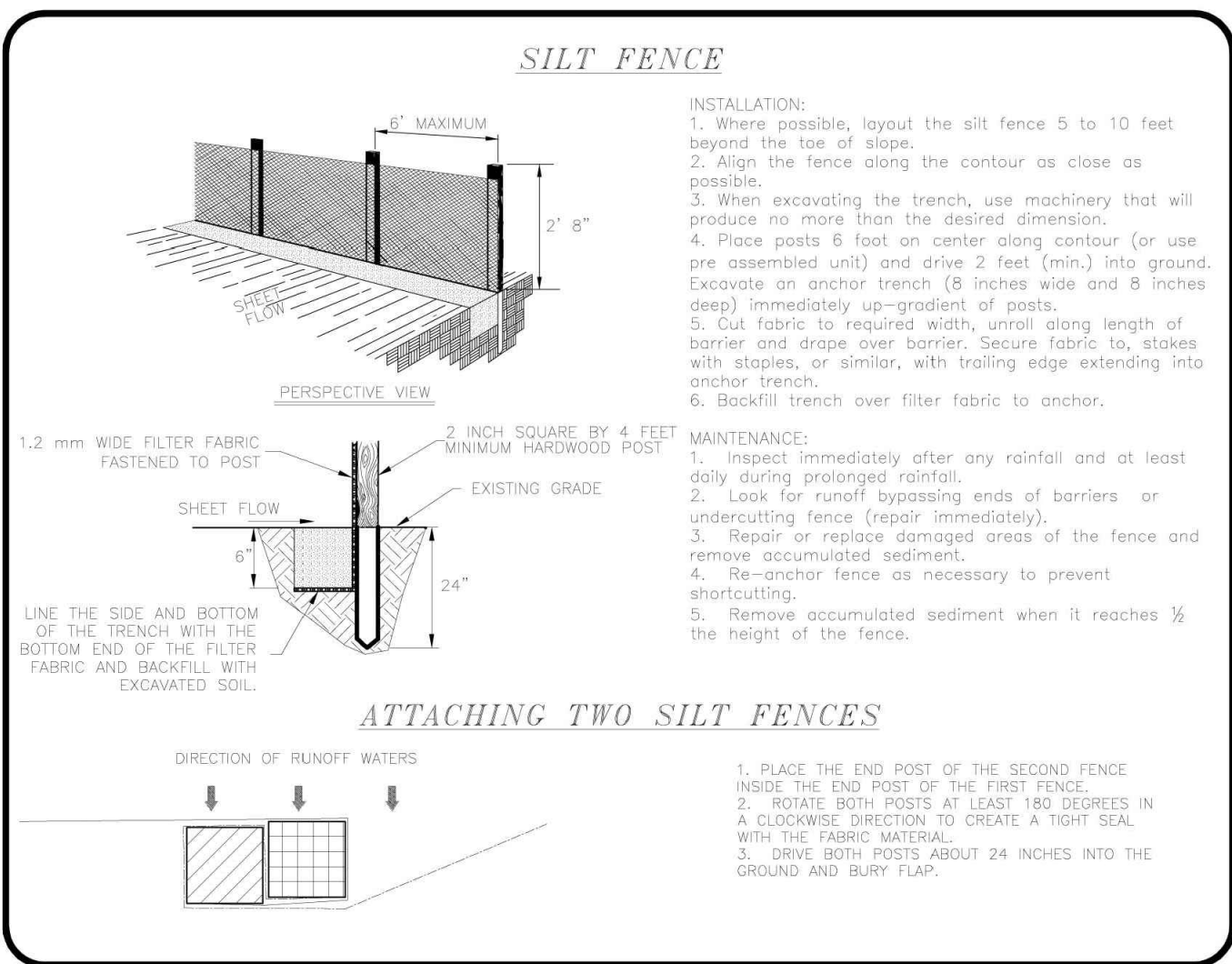
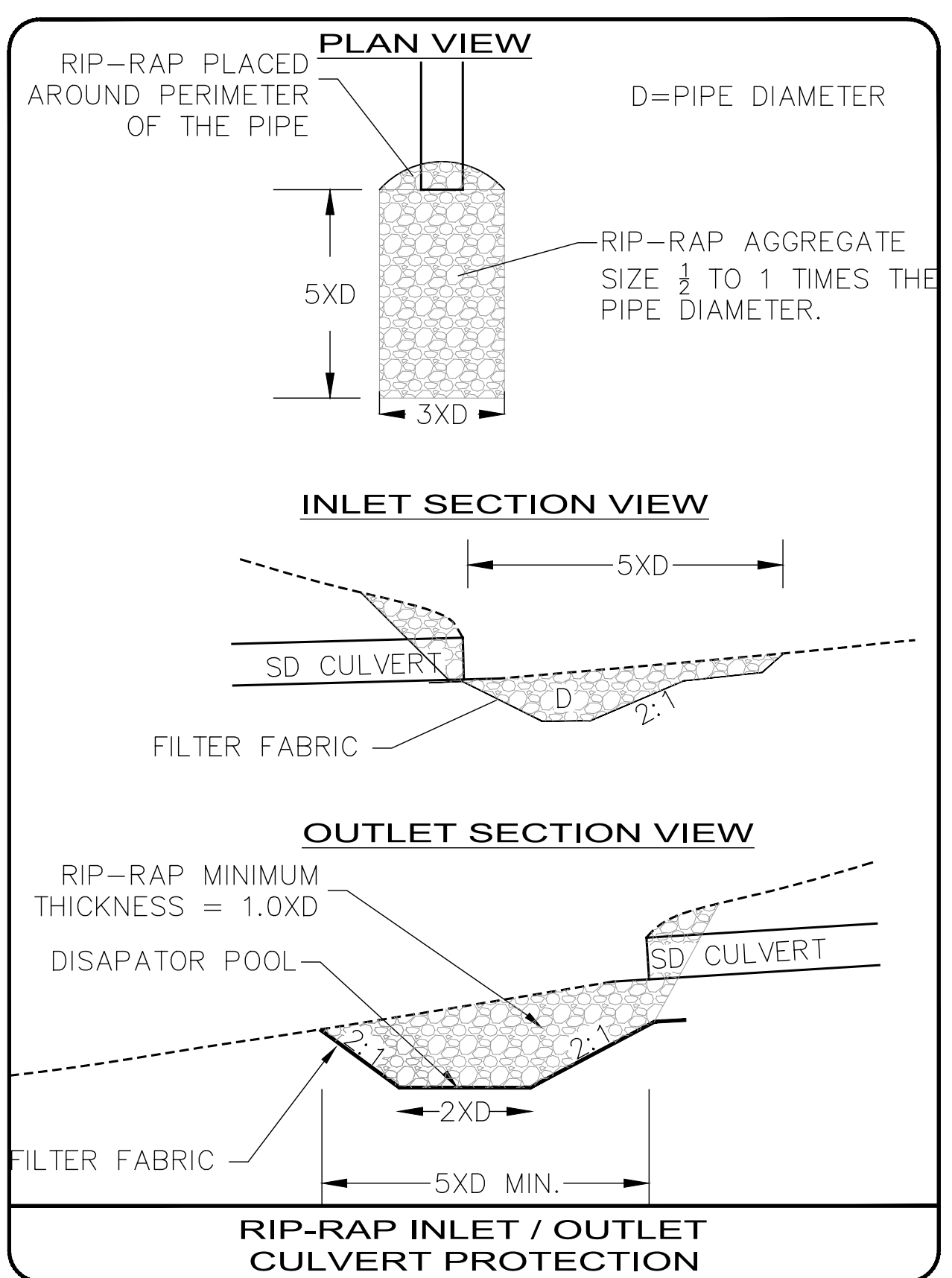
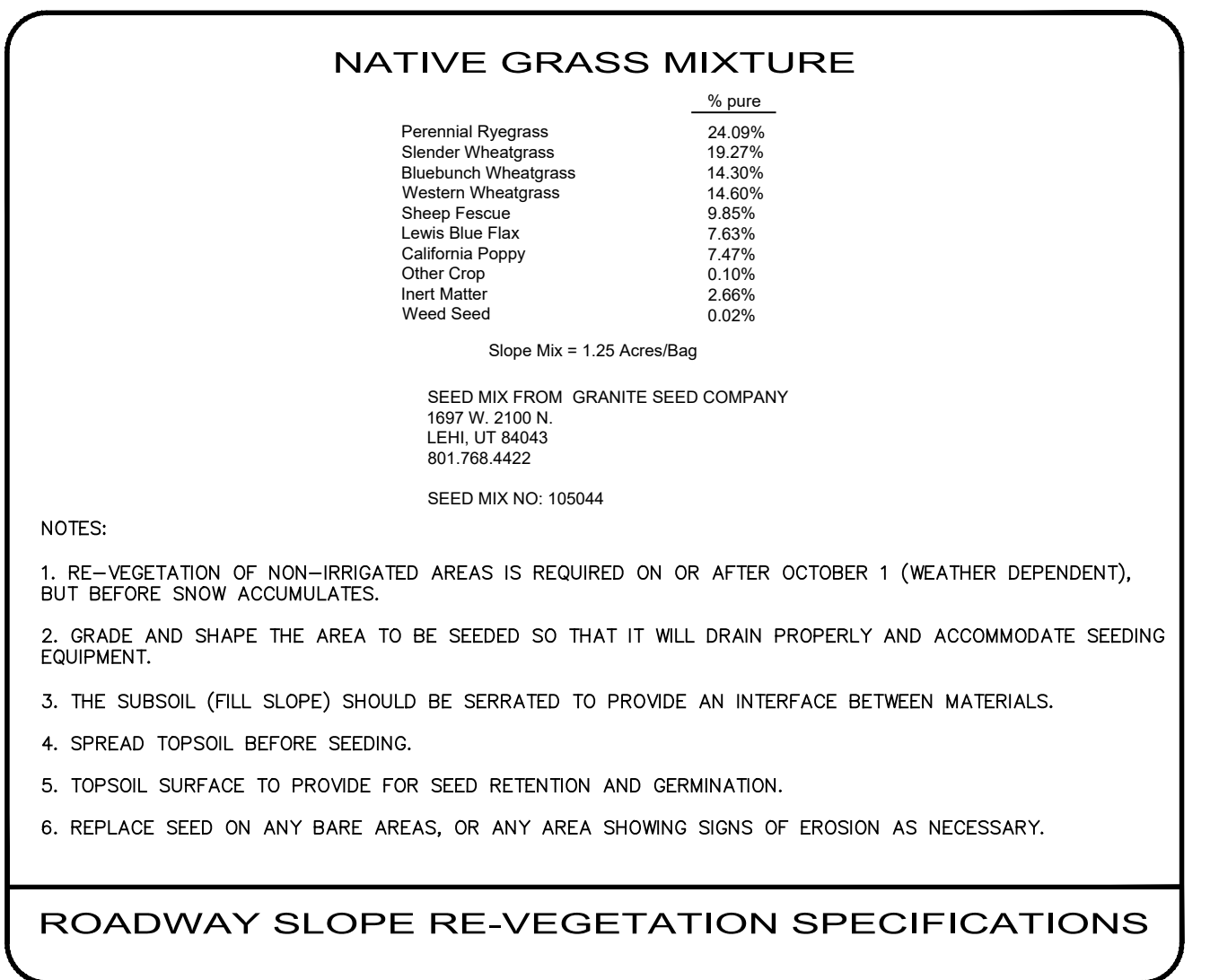
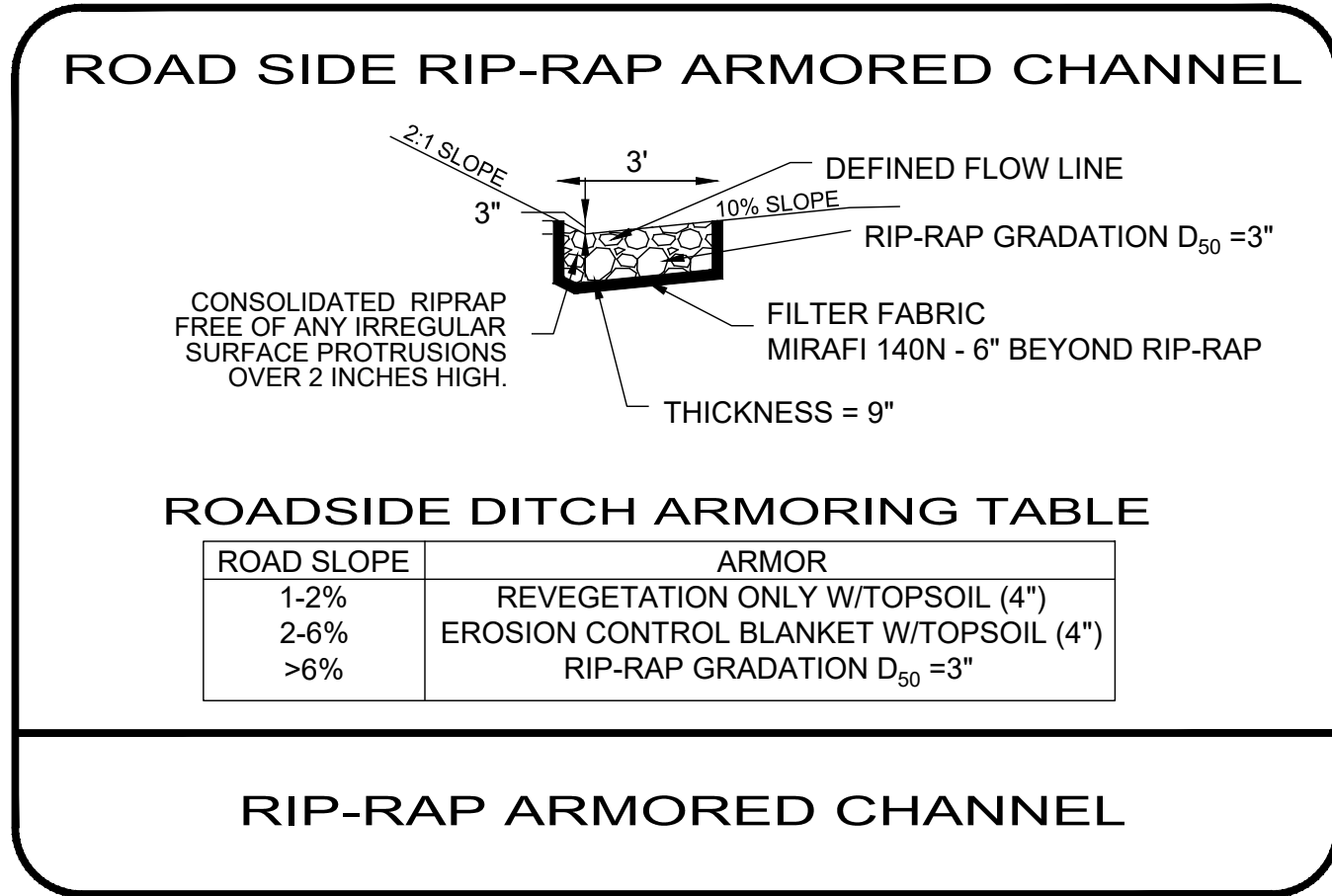
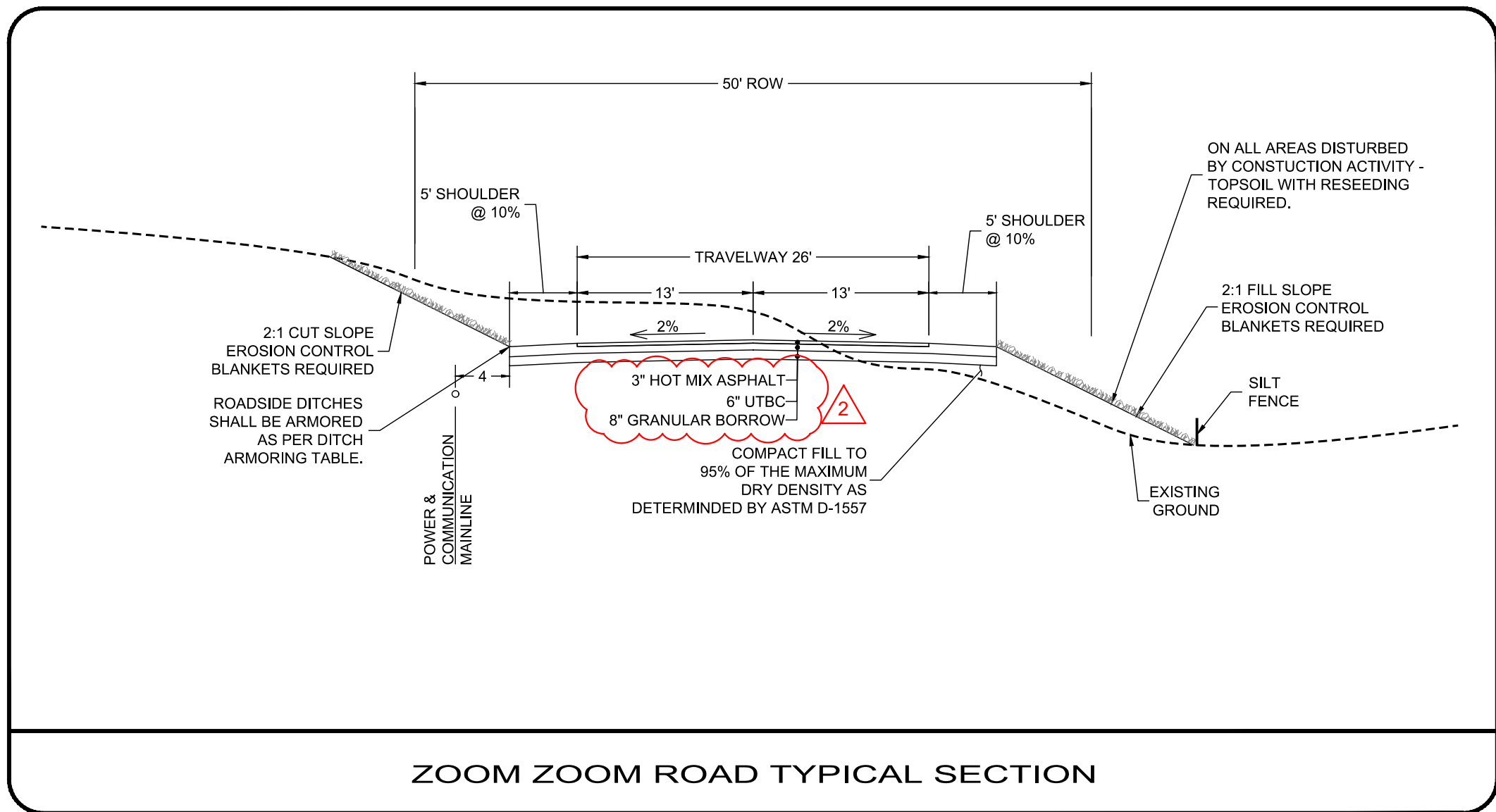
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file name: C501_Nordic Phase 1B Cross Sections.dwg | plot date: July 22, 2025 | plotted by: Ron



NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	July 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE:	ROAD F CROSS SECTIONS STA 10+50 + 11+50
SHEET:	C504



NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



DATE:	August 22, 2025
DESIGN BY:	KJM
DRAWN BY:	BRC
REVIEW BY:	
PROJECT NO:	NORDIC
ISSUE:	DESIGN
REVISIONS:	
SHEET TITLE:	
STANDARD DETAILS	
SHEET:	
C601	

path: C:\Users\JennyMDS Dropbox\Projects\106_Nordic Valley\01_Design\Nordic Phase 1B\ file name: C601_Nordic Phase 1B Standard Details.dwg | plot date: August 22, 2025 | plotted by: Jenny

SEE DETAIL 201-1

NOTES:
1. TRENCH SHALL MEET ALL CURRENT OSHA REQUIREMENTS AND UOSH REQUIREMENTS FOR SAFETY.
2. BACKFILL: BACKFILL OPERATIONS SHALL COMPLY WITH APLWA 33-05-20 AND MATERIALS SHALL COMPLY WITH APLWA 33-05-15 AND 33-11-23 WITH THE FOLLOWING MATERIAL SELECTION.

PIPE ZONE	UNIMPROVED AREAS	IMPROVED AREAS
PIPE ZONE	DETAIL 201-1	DETAIL 201-1
TRENCH ZONE	MATITE ON IMPORTED SOIL	UNTREATED BASE COURSE
SURFACE ZONE	MATITE TOP SOIL	UNTREATED BASE

SEWER ROCK PEA GRAVEL AND RECYCLED AGGREGATE ARE NOT ALLOWED AS BACKFILL.

PIPE ZONE	UNIMPROVED AREAS	IMPROVED AREAS
PIPE ZONE	PER PIPE MANUFACTURE RECOMMENDATION	PER PIPE MANUFACTURE RECOMMENDATION
TRENCH ZONE	90% OF ASTM D 695	90% OF ASTM D 695
SURFACE ZONE	90% OF ASTM D 695	90% OF ASTM D 1557

WATER SETTLING OR "JETING" OF TRENCHES BACKFILL NOT ALLOWED.

INSTALLATION OF PIPE: INSTALL PIPE PER APLWA 33-11-00 "WATER DISTRIBUTION AND TRANSMISSION SYSTEMS". INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING. SHAPE TRENCH BY HAND TO FIT BOTTOM QUADRANT OF PIPE ALLOWING SPACE FOR PIPE BELLS.

UPDATED: MAY 2025

NORDIC VALLEY WATER INFRASTRUCTURE

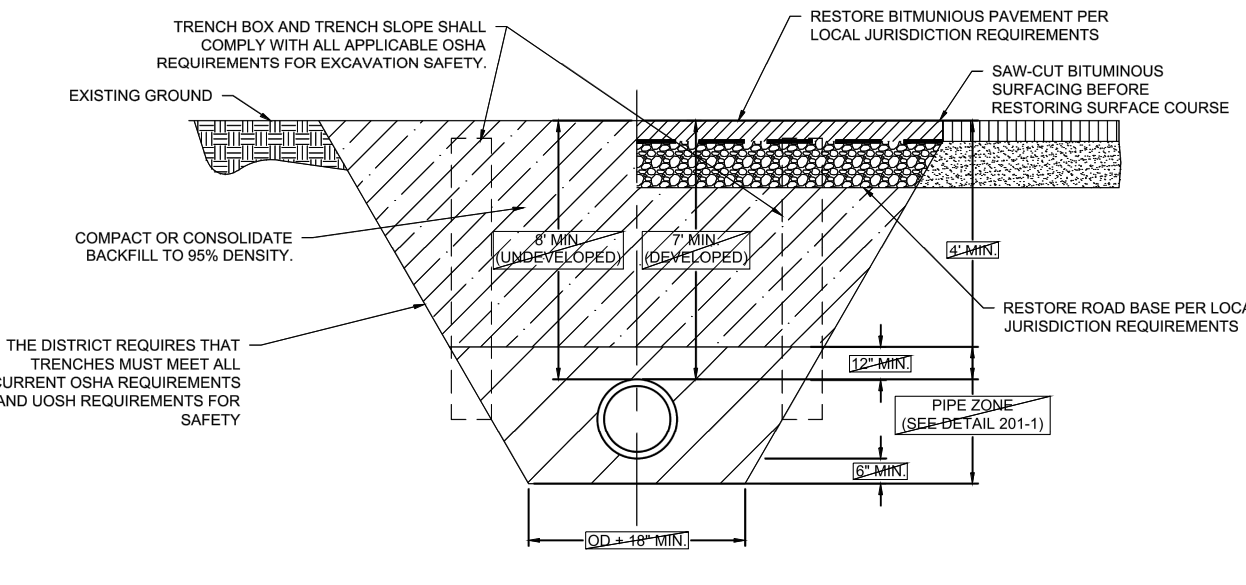
WATERLINE TRENCH

401-1

THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE

PIPE SIZE (IN)	MIN BEARING AREA (SQ FT)
4	1.3
6	2.7
8	4.5
10	6.9
12	10.1
14	13.3
16	16.5
18	19.7
20	22.9
22	26.1
24	29.3
26	32.5
28	35.7
30	38.9
36	45.7
42	52.5
48	59.3
54	66.1
60	72.9
66	79.7
72	86.5
78	93.3
84	100.1
90	106.9
96	113.7
102	120.5
108	127.3
114	134.1
120	140.9
126	147.7
132	154.5
138	161.3
144	168.1
150	174.9
156	181.7
162	188.5
168	195.3
174	202.1
180	208.9
186	215.7
192	222.5
198	229.3
204	236.1
210	242.9
216	249.7
222	256.5
228	263.3
234	270.1
240	276.9
246	283.7
252	290.5
258	297.3
264	304.1
270	310.9
276	317.7
282	324.5
288	331.3
294	338.1
300	344.9
306	351.7
312	358.5
318	365.3
324	372.1
330	378.9
336	385.7
342	392.5
348	399.3
354	406.1
360	412.9
366	419.7
372	426.5
378	433.3
384	440.1
390	446.9
396	453.7
402	460.5
408	467.3
414	474.1
420	480.9
426	487.7
432	494.5
438	501.3
444	508.1
450	514.9
456	521.7
462	528.5
468	535.3
474	542.1
480	548.9
486	555.7
492	562.5
498	569.3
504	576.1
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720	820.9
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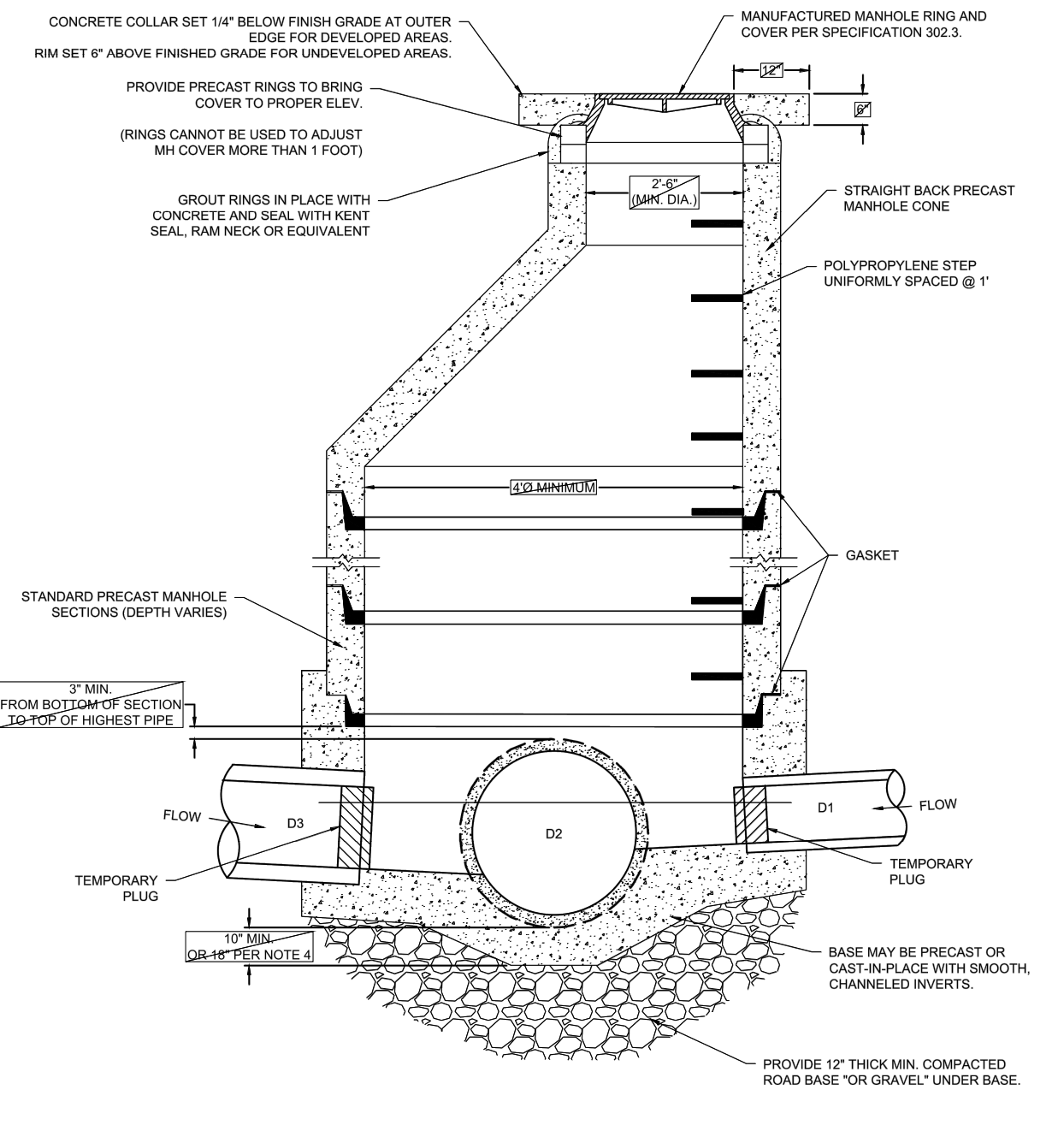


SECTION VIEW

NOTES:

- THE DISTRICT REQUIRES CONTRACTOR MUST MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE OSHA AND UOSH REQUIREMENTS LATEST EDITIONS).
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 50' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE DISTRICT ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
- TESTING: ALL NEW GRAVITY TO BE "TELEVIEWED" AND NECESSARY REPAIRS MADE BEFORE ACCEPTANCE. ALL LINES MUST BE PRESSURE TESTED TO 3.5 PSI/MIN FOR 5 MINUTES. A MANHOLE OR RAIL CAN BE USED TO VERIFY DEFORMATION OF A PIPE AS DETERMINED FROM THE VIDEO UNLESS SPECIFIED OTHERWISE. MANHOLES MUST BE TESTED AS DESCRIBED IN SPECIFICATION 302.4.
- ALL GRAVITY LINES TO BE INSTALLED IN PUBLIC RIGHT-OF-WAY OR RECORDED EASEMENT UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.
- WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH, PLACE AND COMPACT IMPORTED BACKFILL MATERIALS AS REQUIRED AND AS DIRECTED.
- 1" SPACING MUST BE MAINTAINED BETWEEN ALL WATER LINE PIPE CROSSINGS AND THE TOP OF THE SEWER PIPE.
- MAX. DEPTH SHALL BE 20' TO THE TOP OF PIPE UNLESS APPROVED OTHERWISE BY THE DISTRICT ENGINEER.

UPDATED: MAY 2025		
NORDIC VALLEY SEWER INFRASTRUCTURE	SEWER TRENCH	402-1

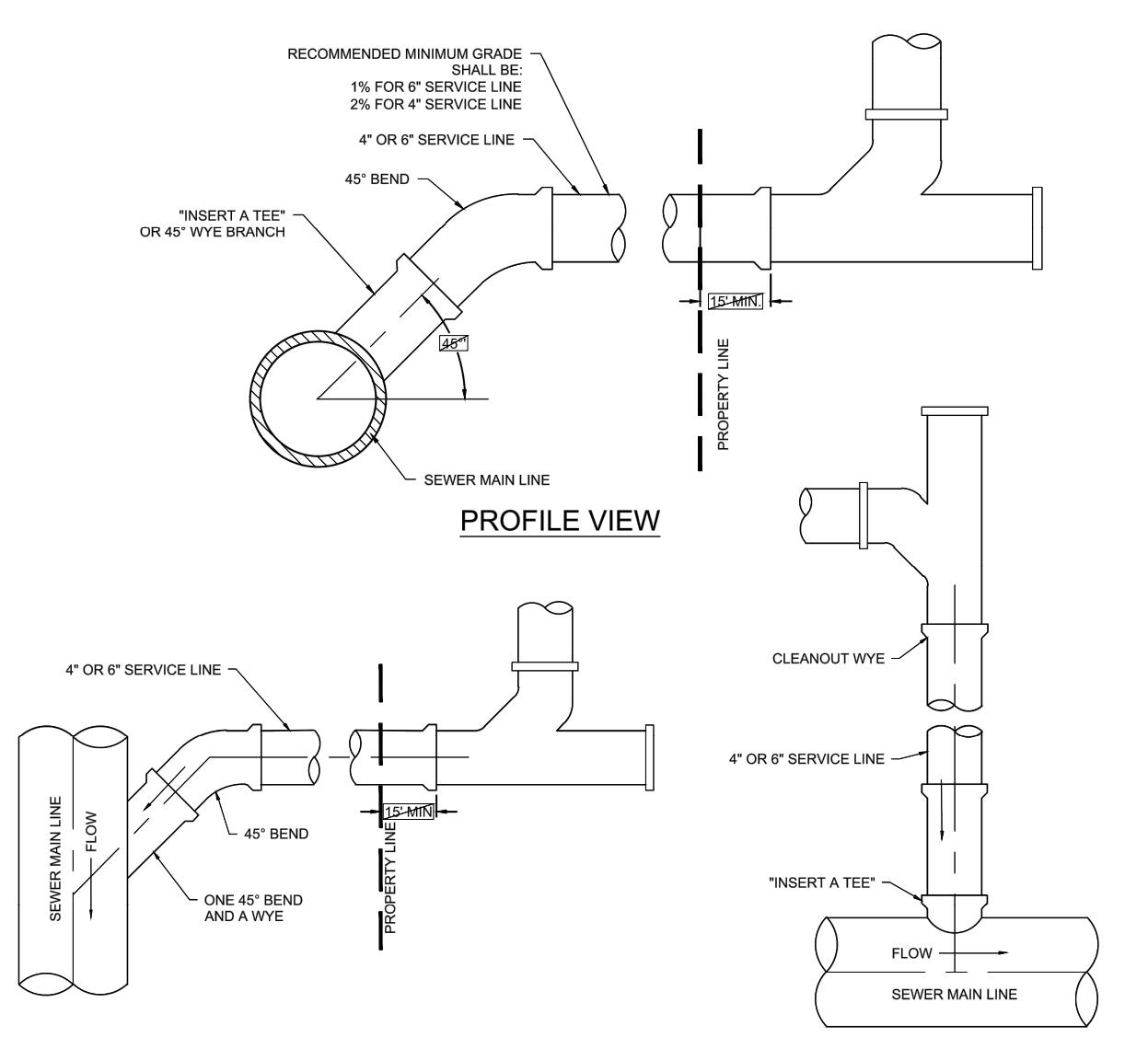


SECTION VIEW

NOTES:

- IF GRADE ALLOWS, INVERTS OF D1 & D3 SHALL BE REQUIRED TO MATCH TOP OF D2.
- REMOVE DEBRIS, TEMPORARY PLUGS AND PLYWOOD FROM INSIDE OF MANHOLES ONCE GRADING HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE.
- IF MANHOLE BASE IS TO BE POURED IN PLACE, FOLLOW SAME PATTERN AS SHOWN EXCEPT USE 10" MIN WALL THICKNESS.
- MANHOLES DEEPER THAN 20 FEET MUST HAVE AN 18" THICK CONCRETE BASE.

UPDATED: MAY 2025		
NORDIC VALLEY SEWER INFRASTRUCTURE	SEWER MANHOLE	402-3



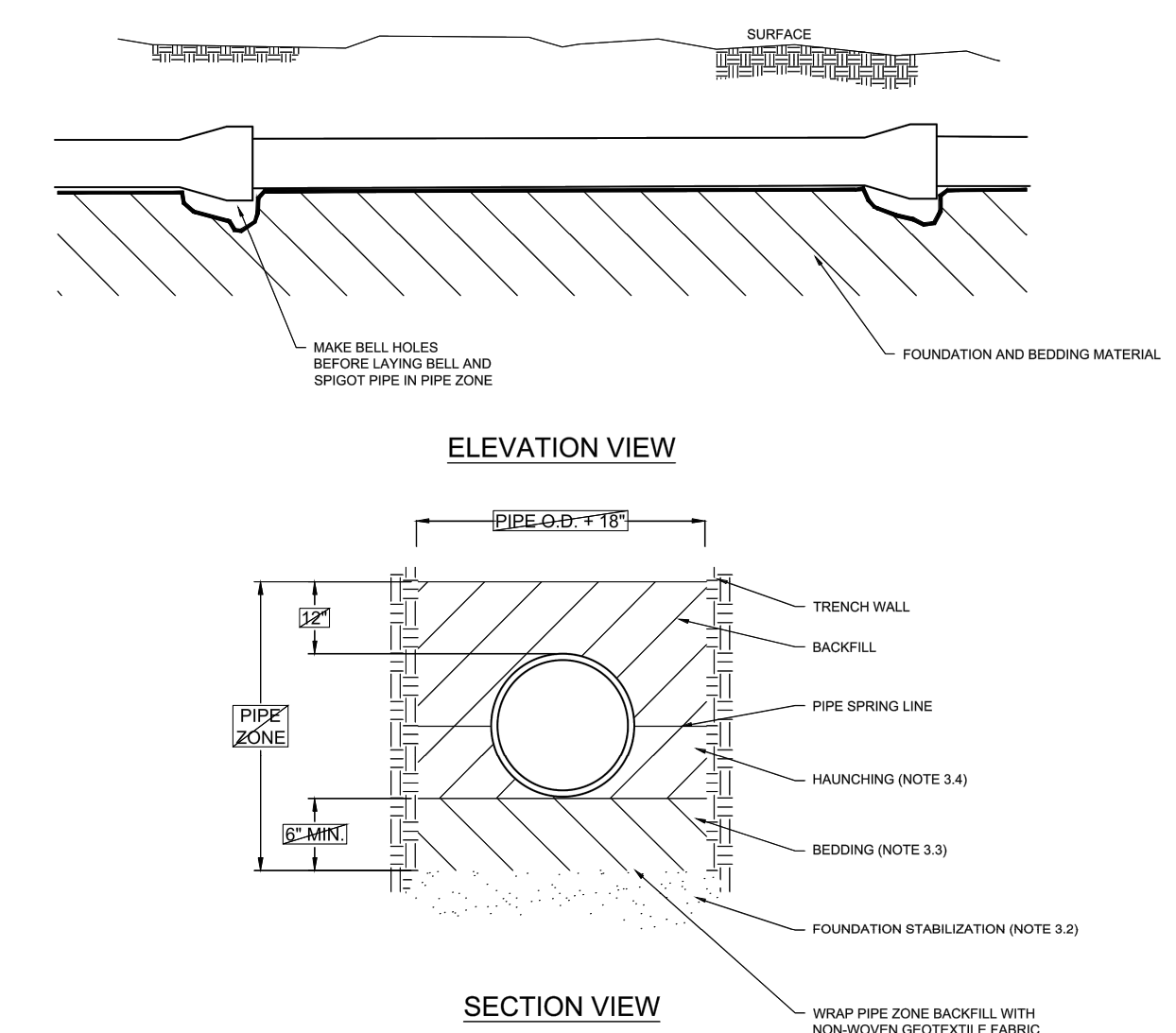
SECTION VIEW - 45° WYE BRANCH

SECTION VIEW - "INSERT A TEE"

NOTES:

- ALL HOUSE SERVICES SHALL BE 4" DIAMETER. COMMERCIAL AND PUBLIC SERVICES SHALL BE 6" DIAMETER UNLESS DIRECTED OTHERWISE AND SHALL BE EXTENDED FROM MAIN LINES TO PROPERTY LINES.
- ALL 90° BENDS AT CONNECTION TO MAIN MUST BE CONSTRUCTED WITH ONE 45° BEND AND A WYE.
- NOTIFY DISTRICT 24 HOURS IN ADVANCE OF ANY CONNECTION. EVERY CONNECTION TO BE INSPECTED BY DISTRICT.
- CONNECTION TO USERS TO BE DONE BY OTHERS.
- IN AREAS WHERE SEWER LATERALS ARE NEEDED TO SERVICE A BASEMENT 11" MIN. DEPTH IS RECOMMENDED. IF THE SEWER LINE IS NOT 11" DEEP A NOTE MUST BE PLACED ON THE PLANS BEFORE EXCAVATING BASEMENTS. CONTRACTOR MUST VERIFY SEWER DEPTH.

UPDATED: MAY 2025		
NORDIC VALLEY SEWER INFRASTRUCTURE	SERVICE CONNECTION	402-5



ELEVATION VIEW

SECTION VIEW

INSTALLATION:

PLASTIC PIPE: FOLLOW ASTM D 2521

"STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS"

METAL PIPE: FOLLOW ASTM A 798

"STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS"

INSTALLATION IN BEDROCK REQUIRES 18" PIPE BEDDING, 24" PIPE ZONE WIDTH, AND CHECK DAMS EVERY 400'.

NOTES:

- EXCAVATE THE PIPE ZONE: WIDTH IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING. PROVIDE WIDTH RECOMMENDED BY PIPE MANUFACTURER. FOLLOW MANUFACTURER'S RECOMMENDATIONS WHEN USING TRENCH BOXES.
- FOUNDATION STABILIZATION: OBTAIN ENGINEER'S PERMISSION BEFORE INSTALLING COMMON FILL. VIBRATE TO STABILIZE. INSTALLATION OF STABILIZATION/SEPARATION GEOTEXTILE WILL BE REQUIRED TO SEPARATE BACKFILL MATERIAL AND NATIVE SUBGRADE MATERIALS IF COMMON FILL CANNOT PROVIDE A WORKING SURFACE OR PREVENT SOLE IMMOBILIZATION.
- BEDDING: FOLLOW APWA SECTION 33.05.20 REQUIREMENTS AND THE FOLLOWING PROVISIONS:
 - FURNISH 3/4" MINUS WASHED ROCK FOR PLASTIC PIPE AND 1" MINUS WASHED ROCK FOR CONCRETE PIPE MATERIAL UNLESS SPECIFIED OTHERWISE BY PIPE MANUFACTURER.
 - MAXIMUM LIFT THICKNESS IS 8 INCHES.
 - BEDDING IMMEDIATELY UNDER THE PIPE SHOULD NOT BE COMPACTED, BUT LOOSELY PLACED.
 - COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY. APWA SECTION 31.23.28.
- PIPE ZONE: DO NOT USE SEWER ROCK, P&G GRAVEL, OR RECYCLED RAP AGGREGATE IN THE PIPE ZONE. WATER SETTING IS NOT ALLOWED.
 - MAXIMUM LIFT THICKNESS IS 8 INCHES BEFORE COMPACTION. COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY. APWA SECTION 31.23.28 UNLESS PIPE MANUFACTURER REQUIRES MORE STRINGENT INSTALLATION.
 - SUBMISSION OF QUALITY CONTROL, COMPACTION TEST RESULTS DATA DEVELOPED FOR THE HAUNCH ZONE MAY BE REQUESTED BY ENGINEER AT ANY TIME. CONTRACTOR IS TO PROVIDE RESULTS OF TESTS IMMEDIATELY UPON REQUEST.

UPDATED: MAY 2025		
NORDIC VALLEY GENERAL INFRASTRUCTURE	PIPE ZONE BACKFILL	201-1

NORDIC PHASE 1B
CONSTRUCTION DRAWINGS



MULHOLLAND
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DATE: August 22, 2025

DESIGN BY: KJM

DRAWN BY: BRC

REVIEW BY:

PROJECT NO: NORDIC

ISSUE: DESIGN

REVISIONS:

- 08/15/2025: ADDED DETAIL SHEET

SHEET TITLE:

STANDARD
DETAILS

SHEET:

C603