



CENTERLINE ROAD IMPROVEMENTS

FOR PROJECT SOTER CAMP HALL COMMERCE PARK BERKELEY COUNTY, SC

PREPARED FOR:
BERKELEY COUNTY
1003 HIGHWAY 52
PO BOX 6122
MONCK'S CORNER, SC 29461

CONSTRUCTION SET

DECEMBER 29, 2015
USE ON CONSTRUCTION FEBRUARY 17, 2016
J-25644.1005

PREPARED BY:

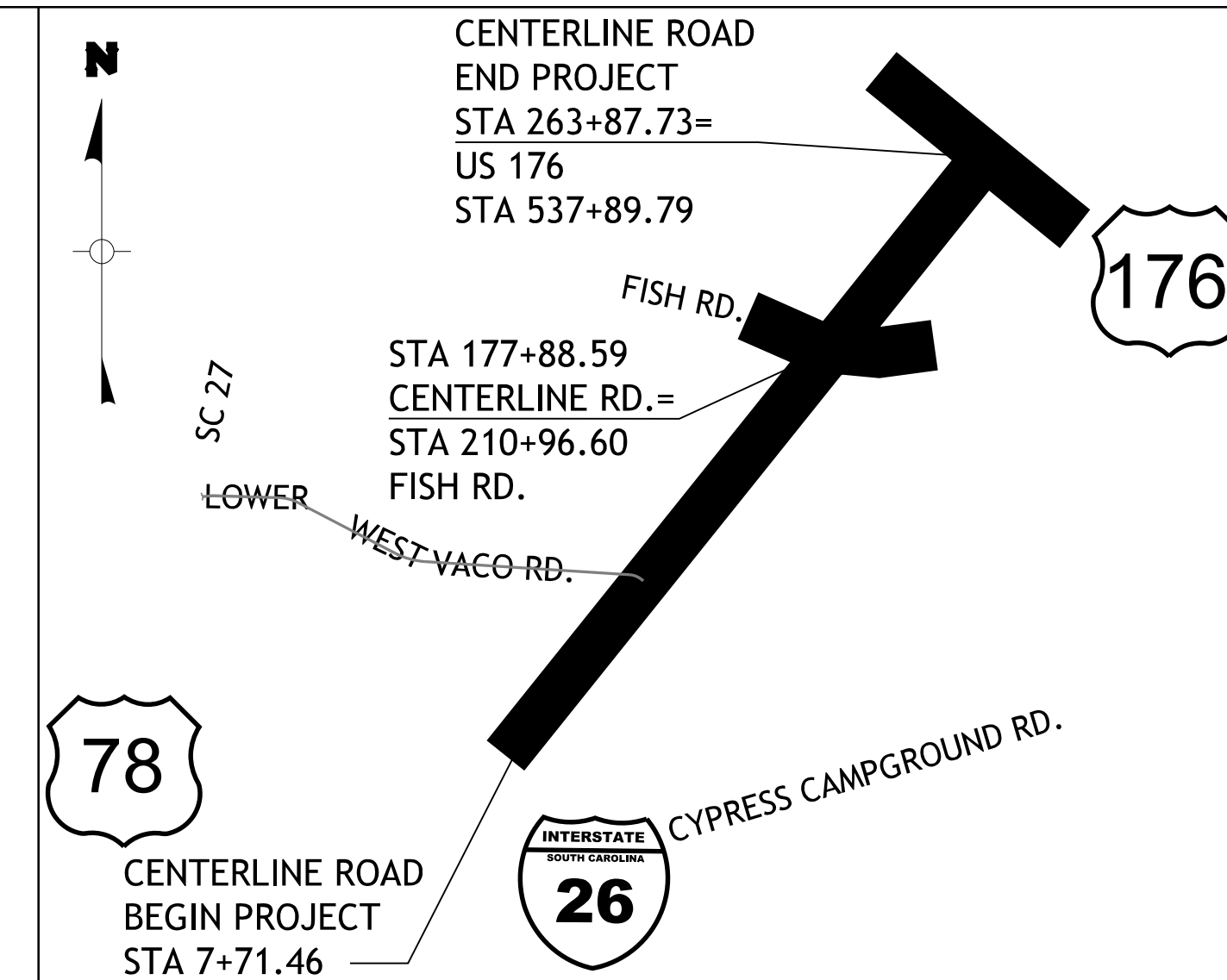
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ENGINEER OF RECORD

FOR CONSTRUCTION: *Orlie D. Kelley*
12/29/15
DATE



Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:
2001
AASHTO "A Policy on Geometric Design of Highways and Streets"

TRAFFIC DATA

	NORTH OF WESTVACO RD.	SOUTH OF WESTVACO RD.
2019 ADT	1,500	1,500
2039 ADT	6,500	27,000
TRUCKS	8.0 %	10.0 %

DESIGN SPEED = 45 MPH

	MAINLINE	SIDE ROADS	TOTAL	
NET LENGTH OF ROADWAY	4.994	0.738	5.732	MILES
NET LENGTH OF BRIDGES	0.000	0.000	0.000	MILES
NET LENGTH OF PROJECT	4.994	0.738	5.732	MILES
LENGTH OF EXCEPTIONS	0.000	0.000	0.000	MILES
GROSS LENGTH OF PROJECT	4.994	0.738	5.732	MILES

EQUALITIES IN STATIONING
NONE

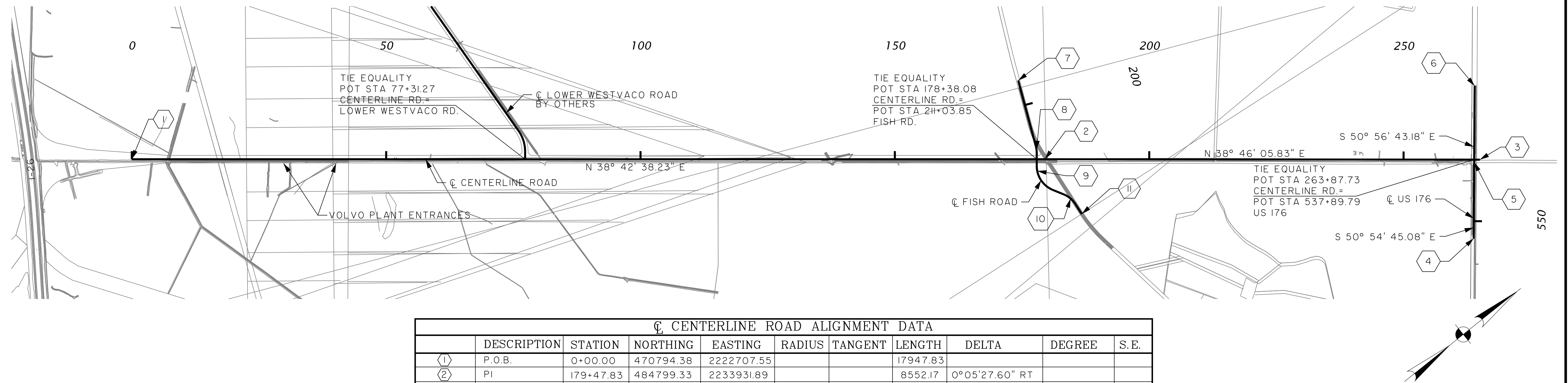
NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.



Know what's below.
Call before you dig.

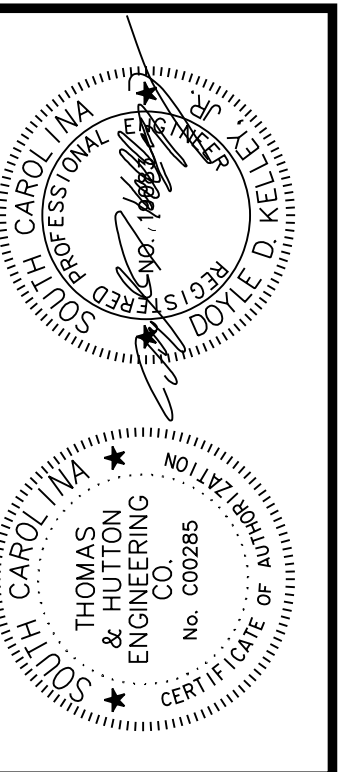
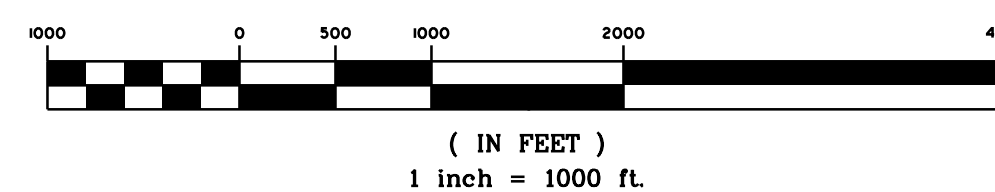
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	TOTAL	208



☉ CENTERLINE ROAD ALIGNMENT DATA										
	DESCRIPTION	STATION	NORTHING	EASTING	RADIUS	TANGENT	LENGTH	DELTA	DEGREE	S.E.
①	P.O.B.	0+00.00	470794.38	2222707.55			17947.83			
②	PI	179+47.83	484799.33	2233931.89			8552.17	0°05'27.60" RT		
③	P.O.E.	265+00.00	491467.33	2239287.02						
☉ US 176 ALIGNMENT DATA										
④	P.O.B.	523+40.00	492293.25	2238090.90			1500.00			
⑤	PI	538+40.00	491348.15	2239255.72			1500.00	0°05'27.60" RT		
⑥	P.O.E.	553+40.00	490402.39	2240419.99						
☉ FISH ROAD ALIGNMENT DATA										
⑦	P.O.B.	195+00.00	485360.01	2232395.39			1345.06			
⑧	PC	208+45.06	484817.98	2233626.41						
	CC		484351.22	2233420.89	510.00	66.90	133.04	14°56'45.32" RT	11°14'04.08"	6.0%
	PT	209+78.10	484749.18	2233739.83						
⑨	PC	212+27.87	484592.98	2233934.73						
	CC		48490.94	2234253.68	510.00	342.79	603.61	67°48'44.62" LT	11°14'04.08"	6.0%
	PT	218+31.48	484545.32	2234501.73						
⑩	PC	220+56.39	484654.71	2234698.24						
	CC		484209.09	2234946.28	510.00	162.57	314.75	36°21'35.97" RT	11°14'04.08"	6.0%
	PT	223+71.13	484716.06	2235001.88						
⑪	P.O.E.	225+97.61	484691.36	2235227.01			211.91			

ALIGNMENT PLAN
GRAPHIC SCALE



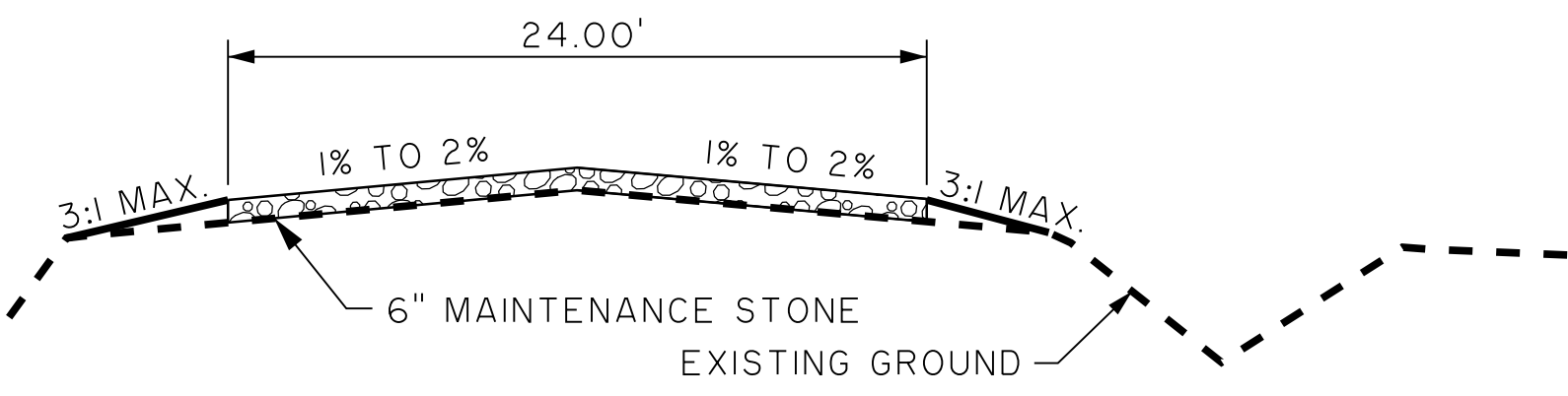
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BERKELEY COUNTY
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CENTERLINE ROAD
INDEX AND LAYOUT

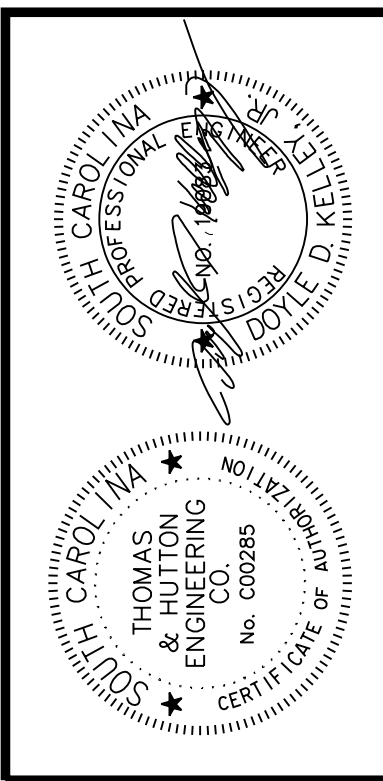
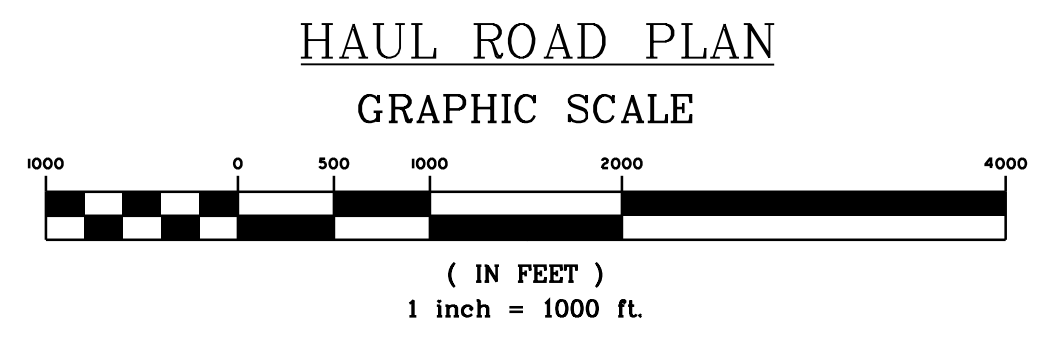
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REVIEWED:	
APPROVED:	
SCALE:	AS NOTED

GO.1



NOTE:
CONTRACTOR TO PLACE MAINTENANCE STONE
AS REQUIRED BY ENGINEER.

HAUL ROAD TYPICAL SECTION
NO SCALE



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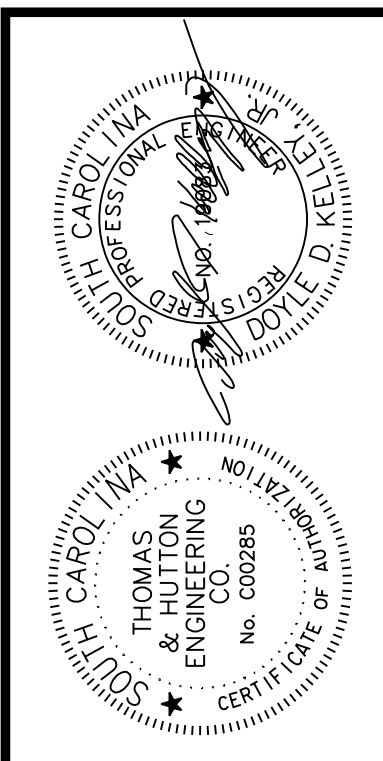
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CENTERLINE ROAD
CONSTRUCTION ACCESS PLAN

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GO.3



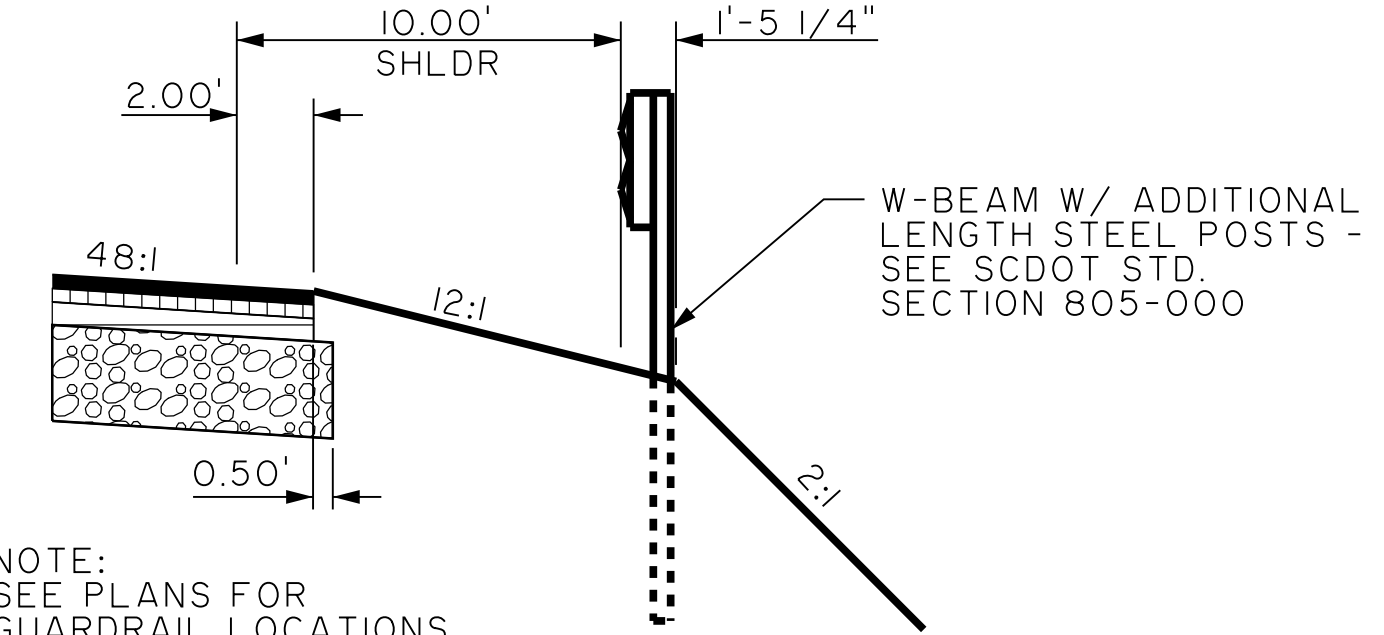
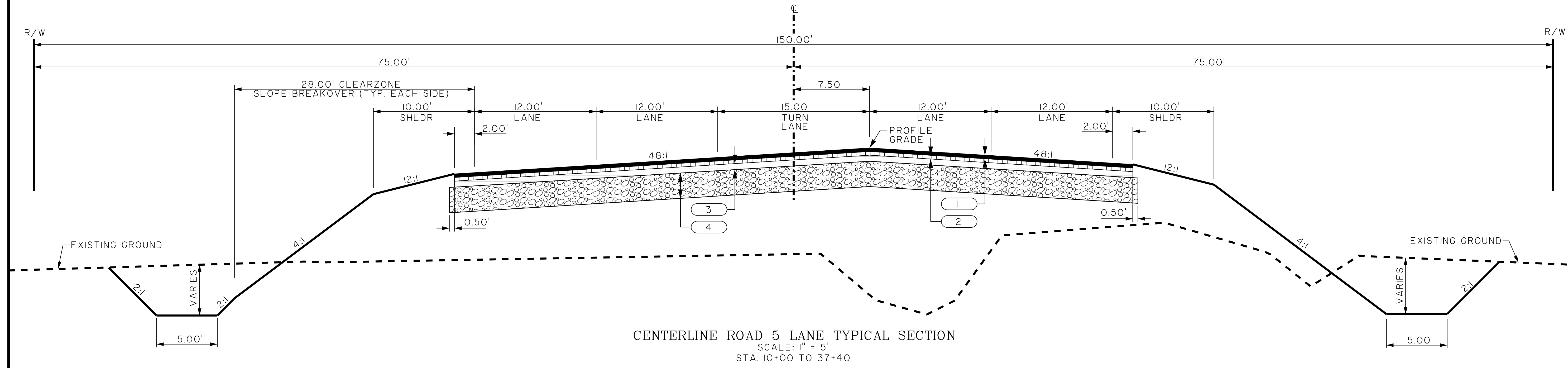
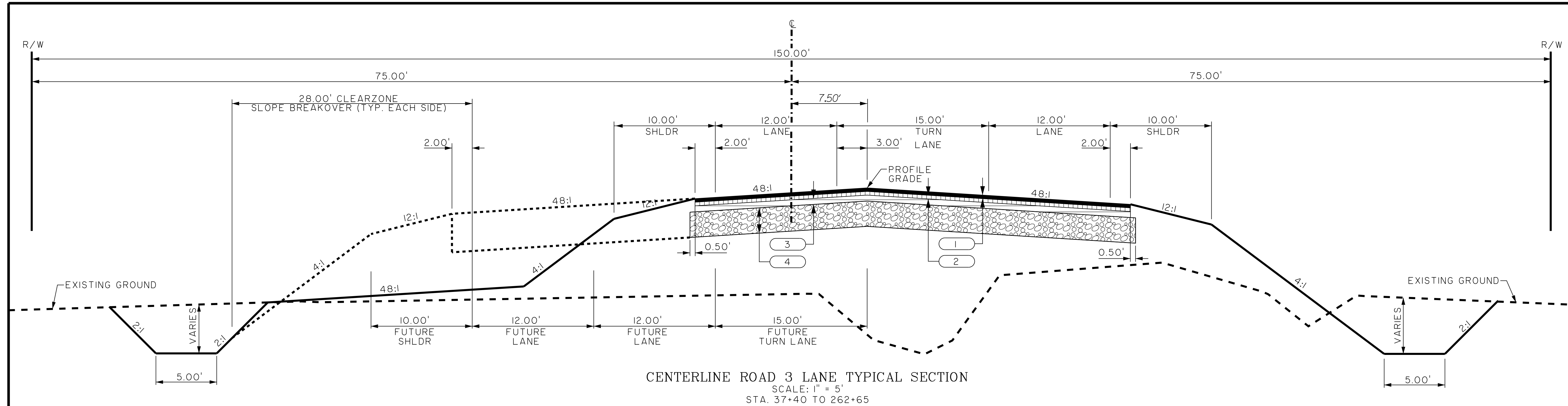
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TYPICAL SECTION

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TP01

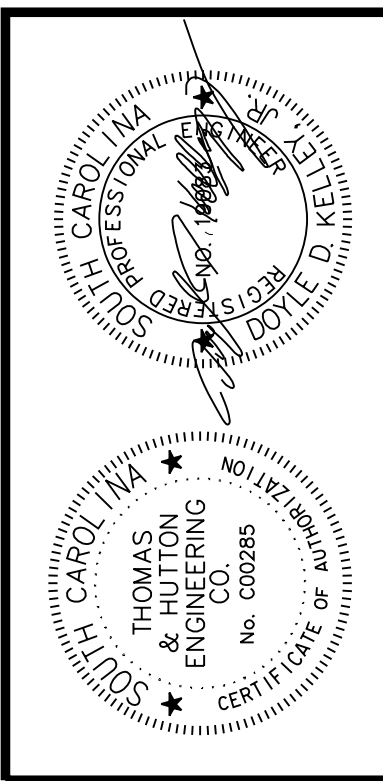


NOTE:
 SEE PLANS FOR
 GUARDRAIL LOCATIONS.

GUARDRAIL PARTIAL TYPICAL SECTION
 SCALE: 1" = 5'

- 1 HOT MIX ASPHALT SURFACE COURSE (TYPE B) (150 PSY)
- 2 HOT MIX ASPHALT SURFACE COURSE (TYPE B) (150 PSY)
- 3 HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE B) (250 PSY)
- 4 MARINE LIMESTONE BASE COURSE (10")

DETAILS:
 DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING NO. 720-405-00, 720-410-00, 720-415-00.



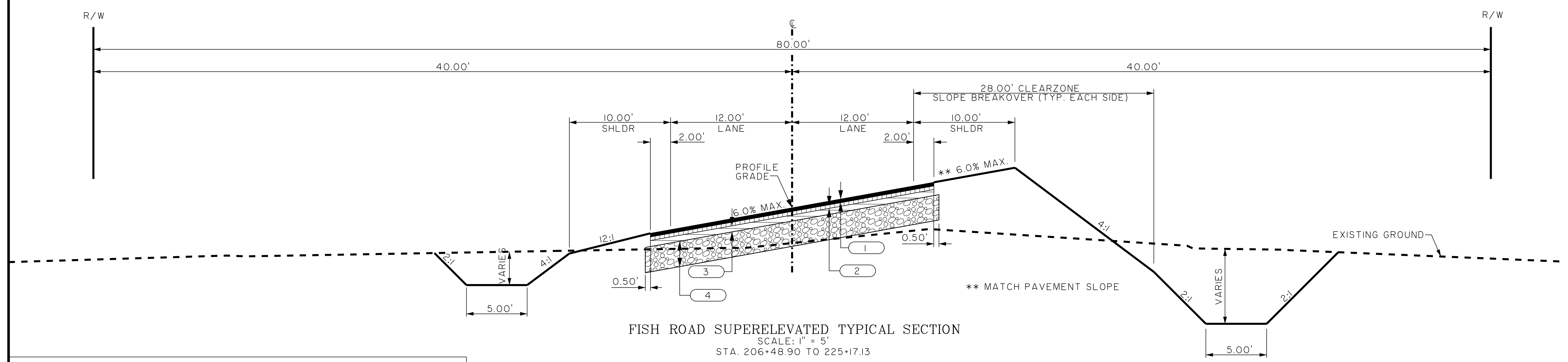
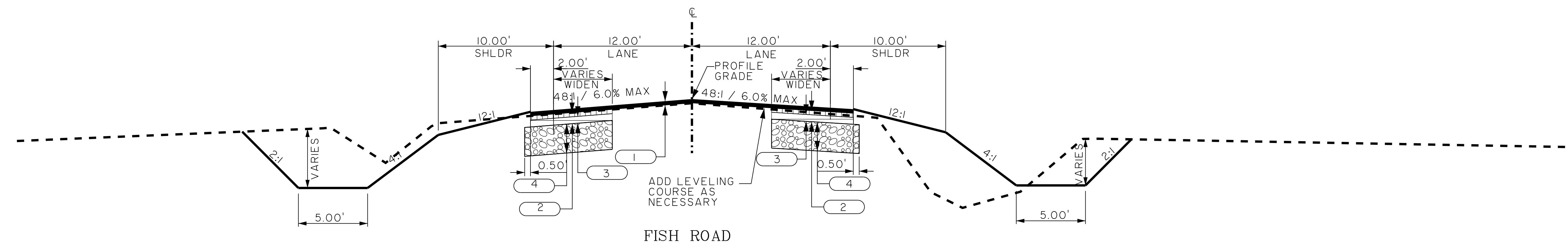
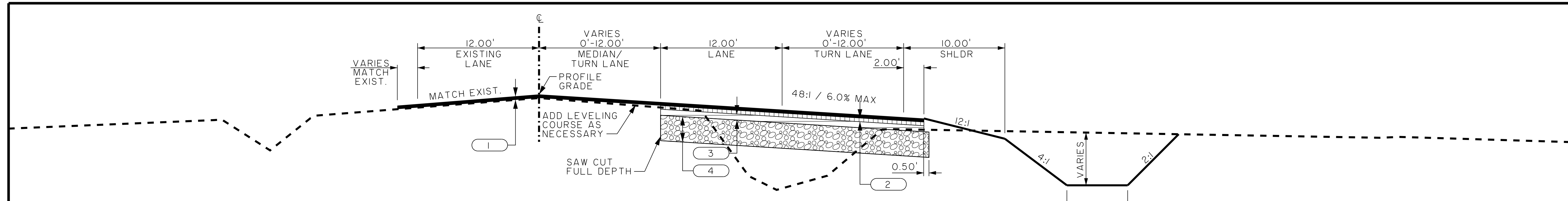
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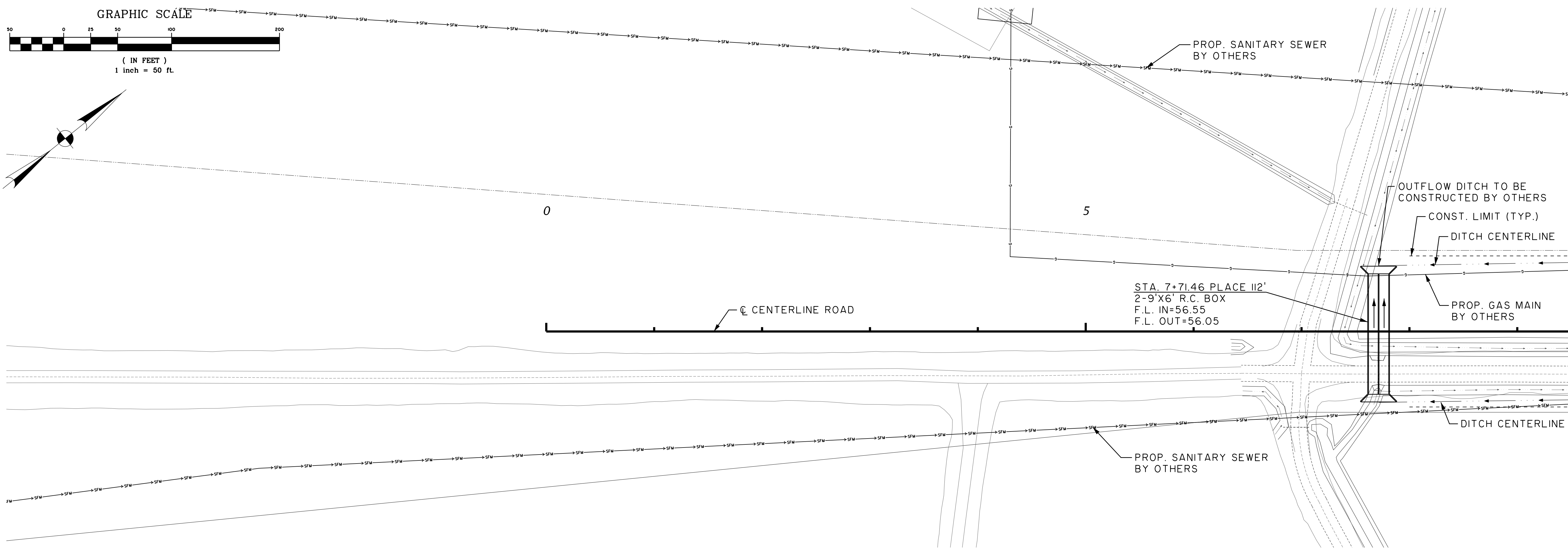
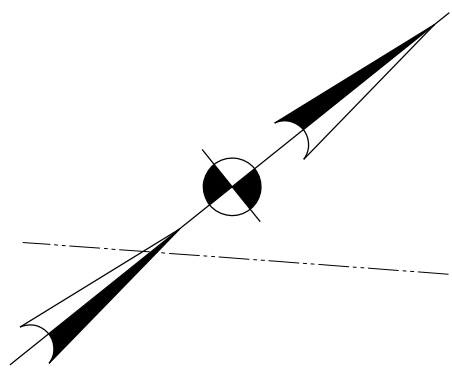
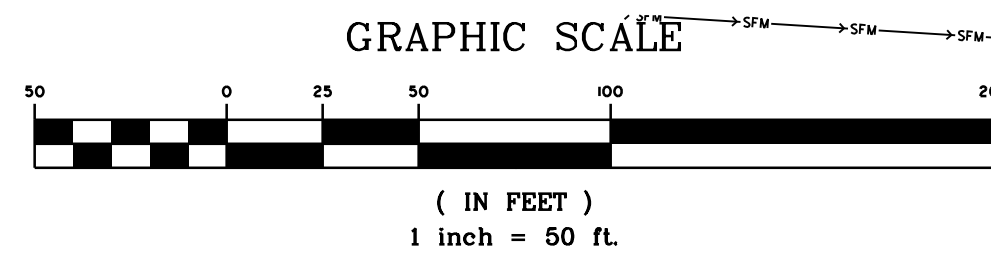
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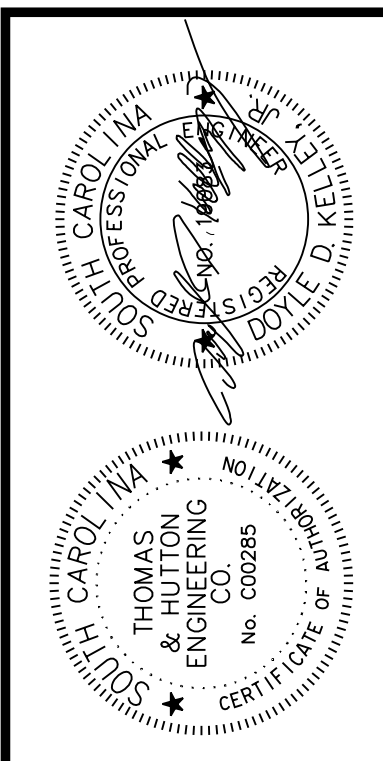
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- 4 MARINE LIMESTONE BASE COURSE (10")

DETAILS:
 DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING NO. 720-405-00, 720-410-00, 720-415-00.

NOTES:
 SAWCUT EXISTING PAVEMENT A MINIMUM OF 6" DEPTH TO MAKE A UNIFORM TIE IN JOINT.
 SEE PLANS AND CROSS SECTIONS FOR SUPERELEVATION RATES AND LOCATIONS.



STA. 9+50 MATCH LINE SHEET PP02



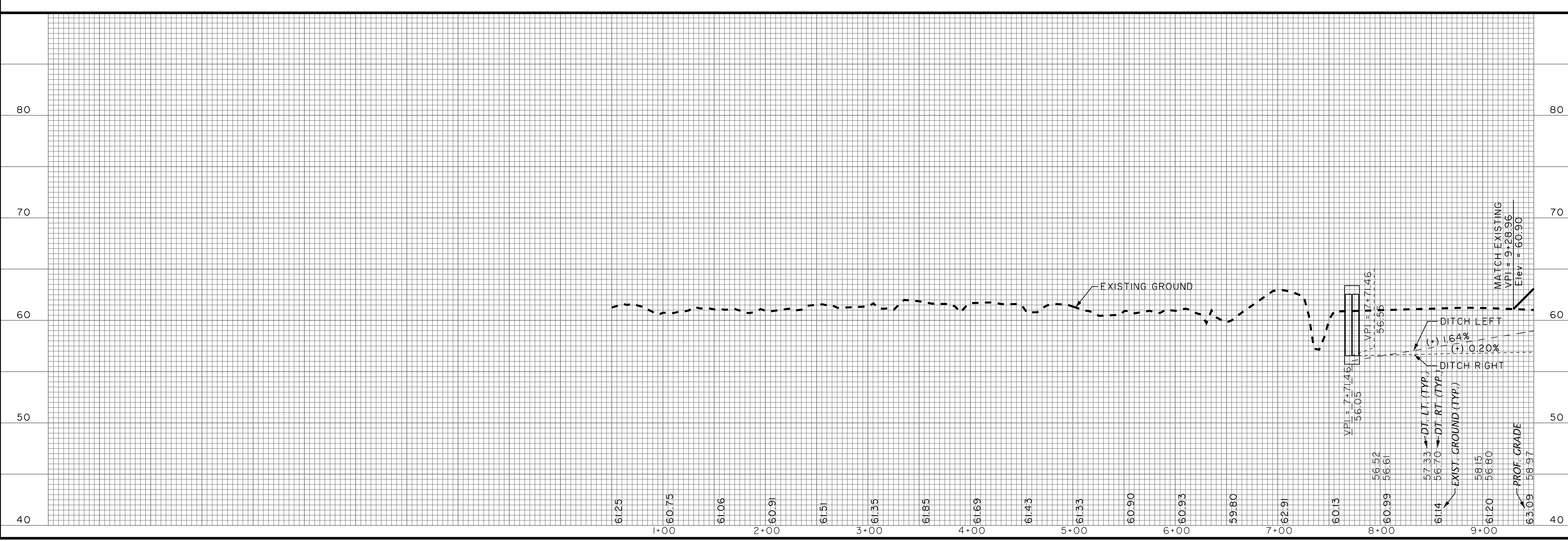
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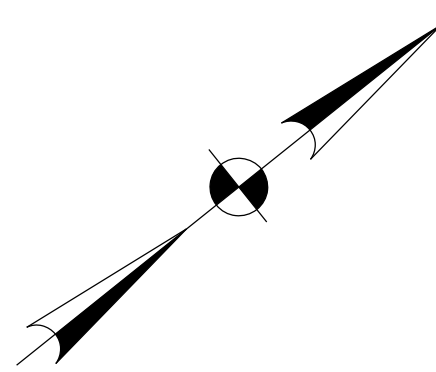
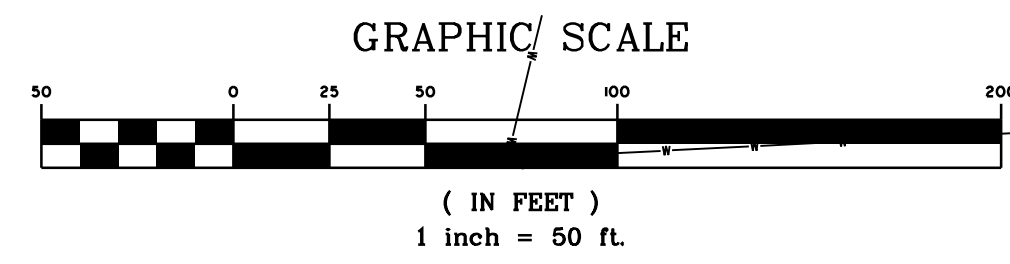
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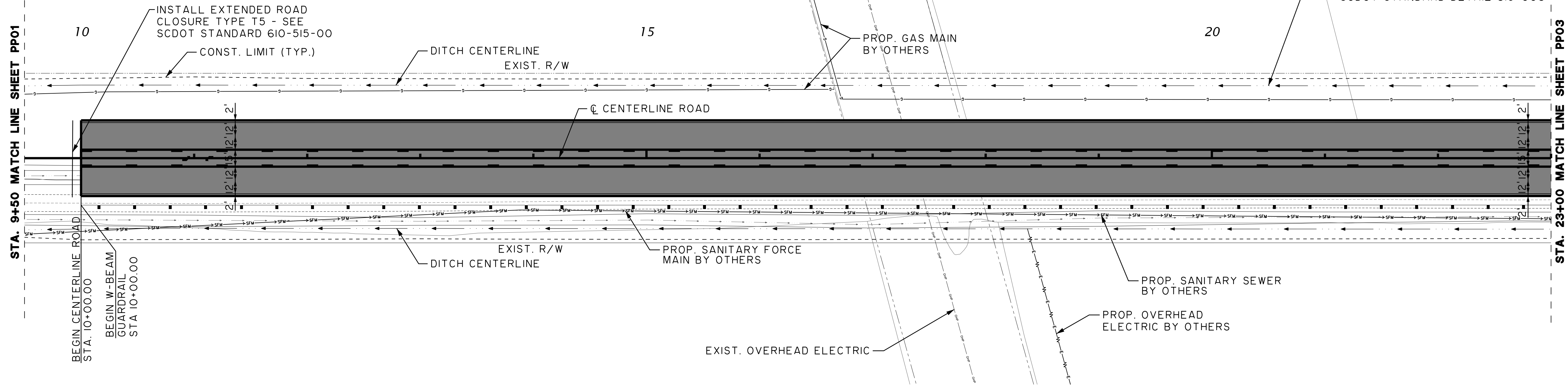
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 SCALE: AS NOTED

PP01



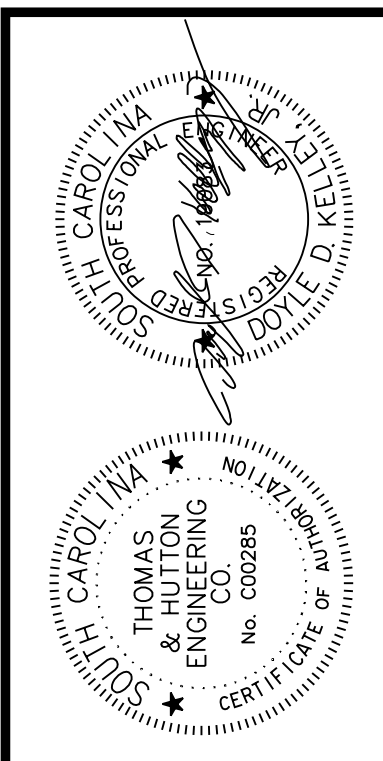


STA. 9+50 MATCH LINE SHEET PP01



STA. 23+00 MATCH LINE SHEET PP03

DOT R.W. DRAINAGE AREA = 4.95 ACRES
NINE (9) EARTHEN FLOW CONTROL STRUCTURES
START STA. : 20+50
END STA. 21+50
SCDOT STANDARD DETAIL 815-008



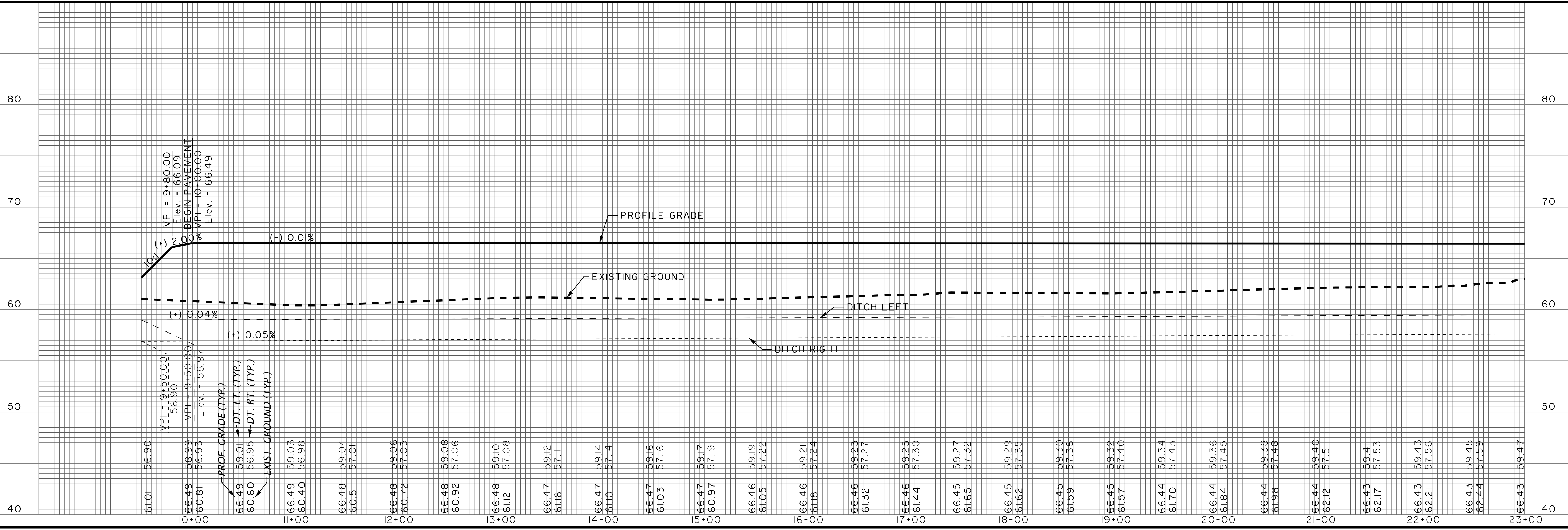
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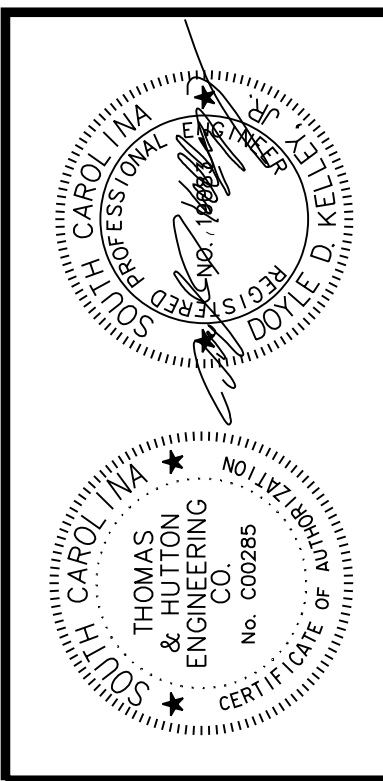
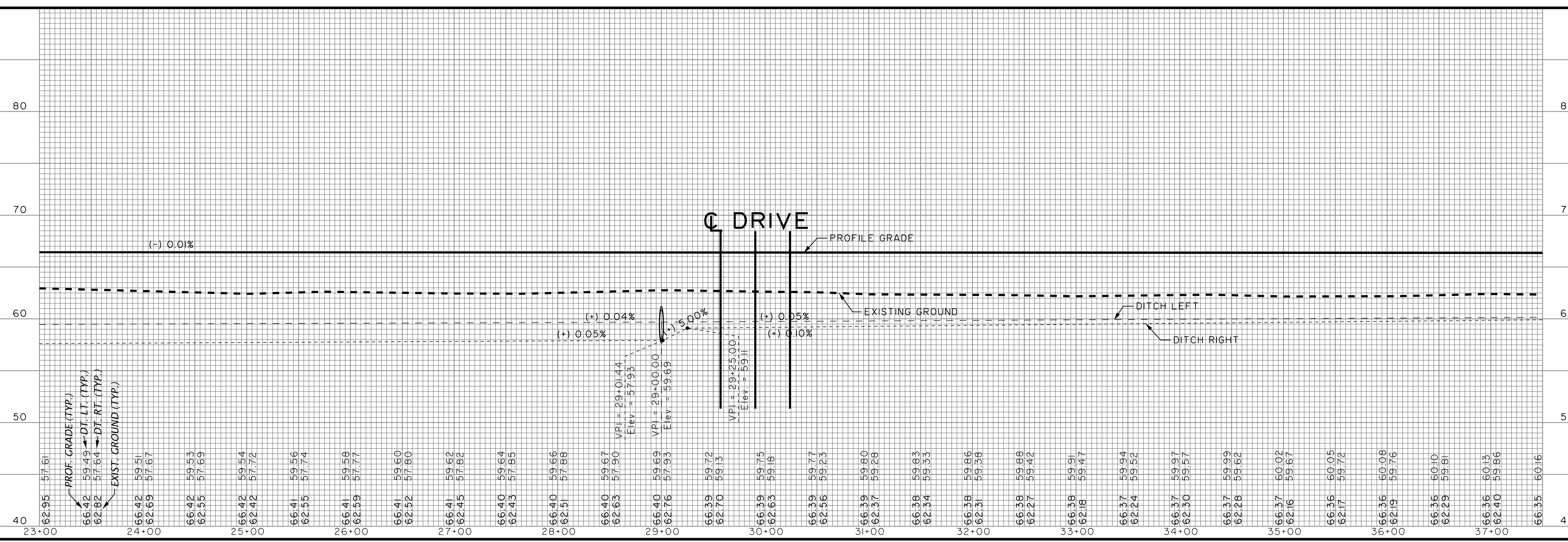
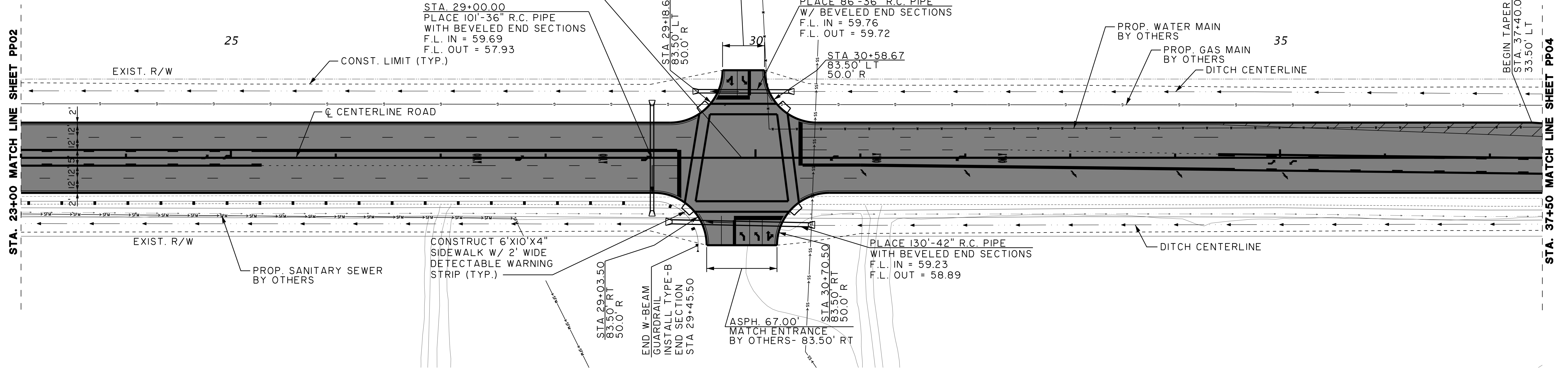
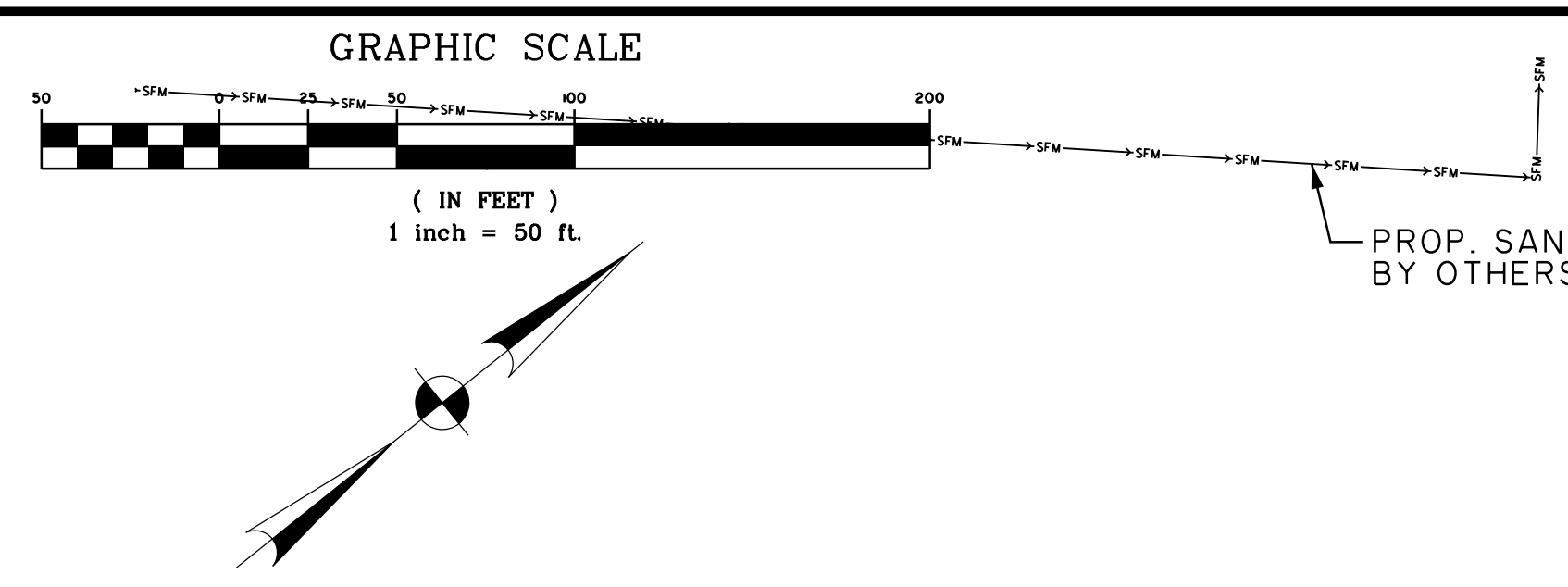
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REVIEWED: JPH
APPROVED: JPH
SCALE: AS NOTED

PP02





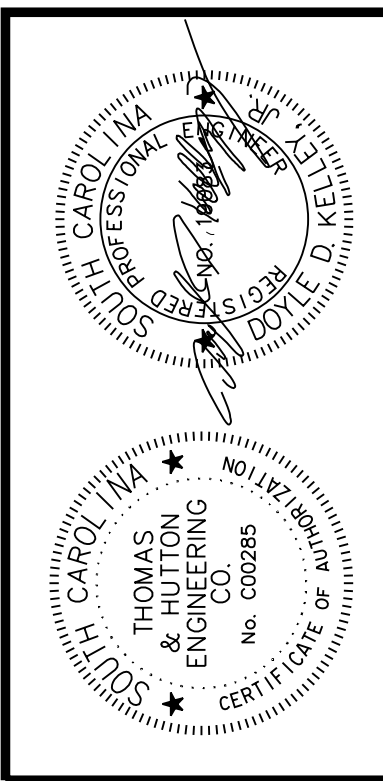
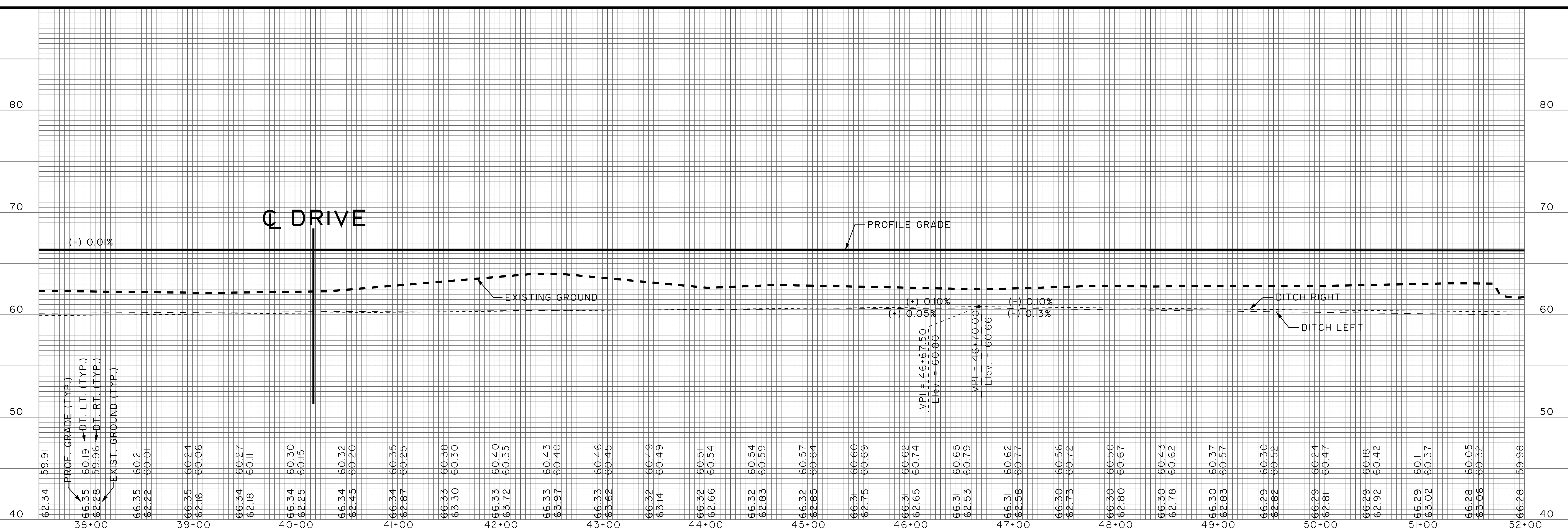
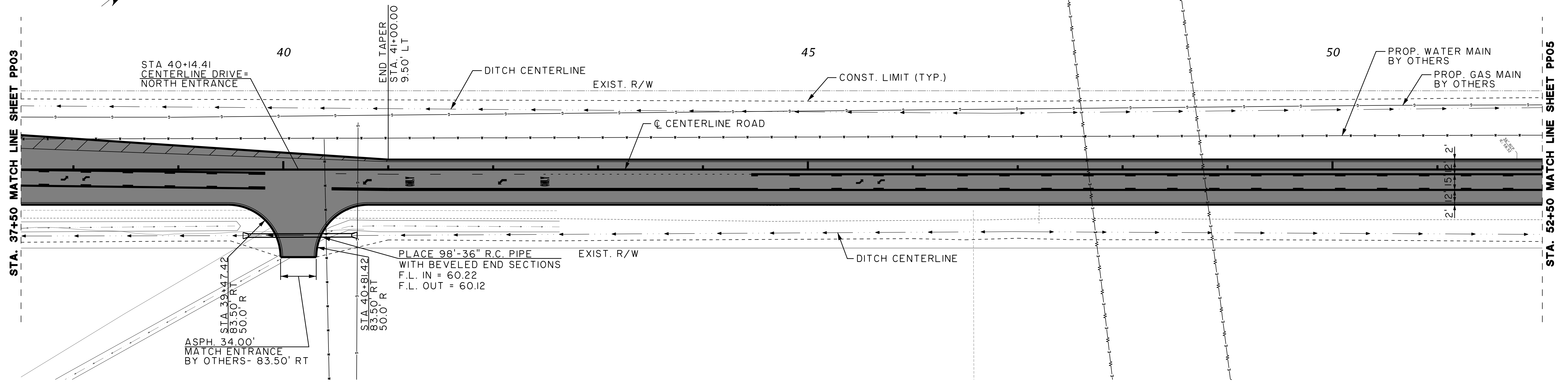
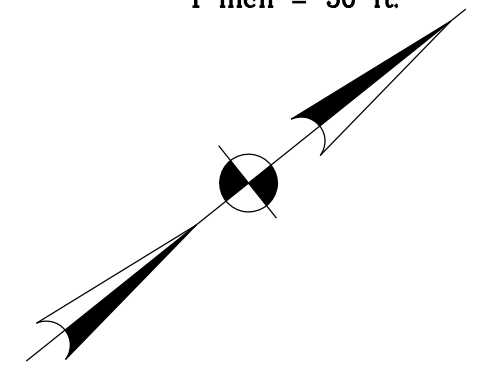
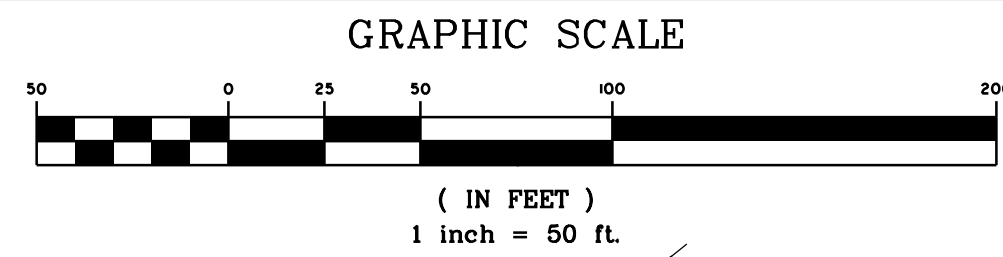
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PP03



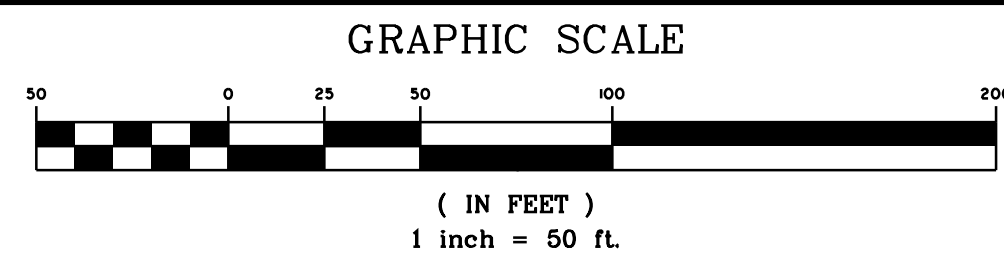
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PP04

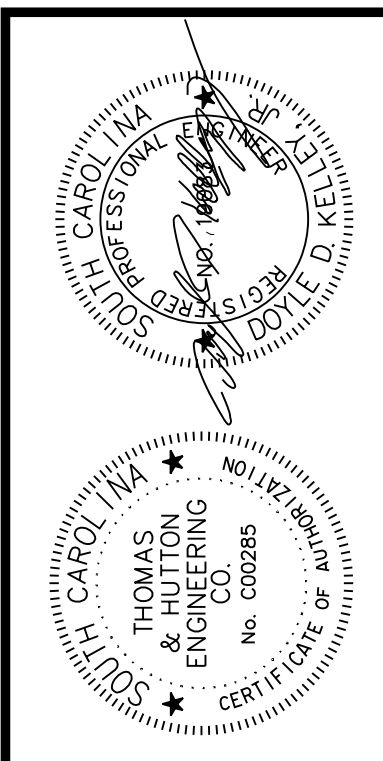
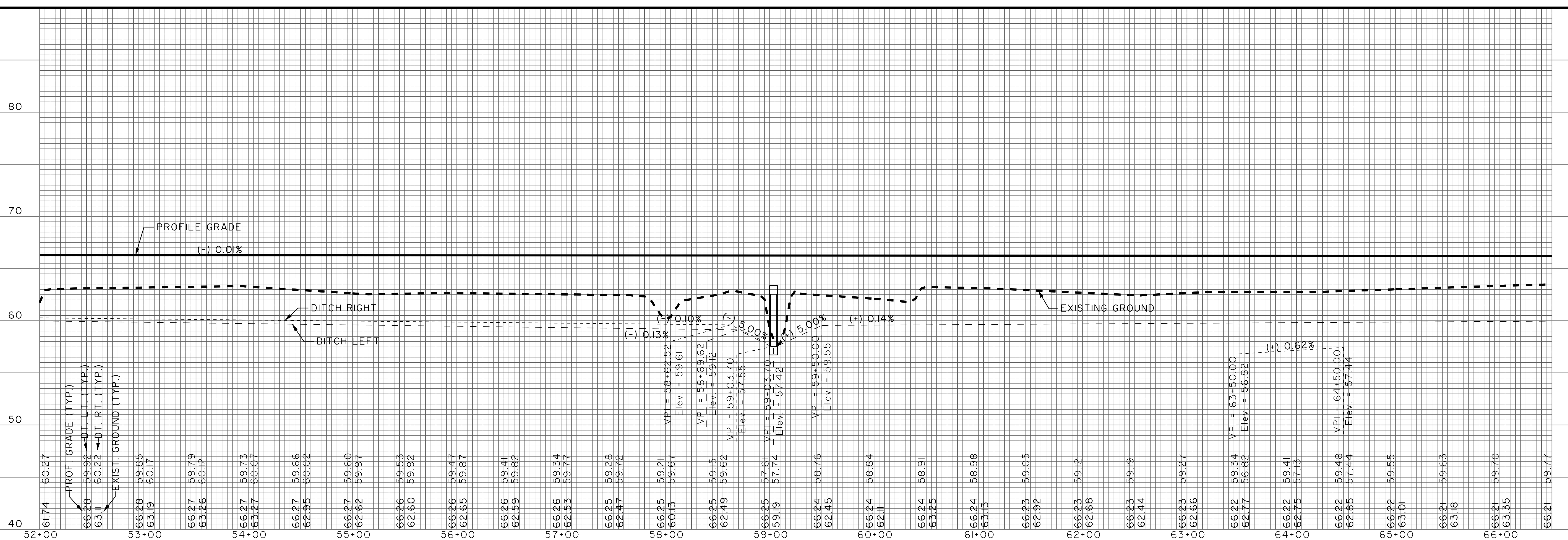
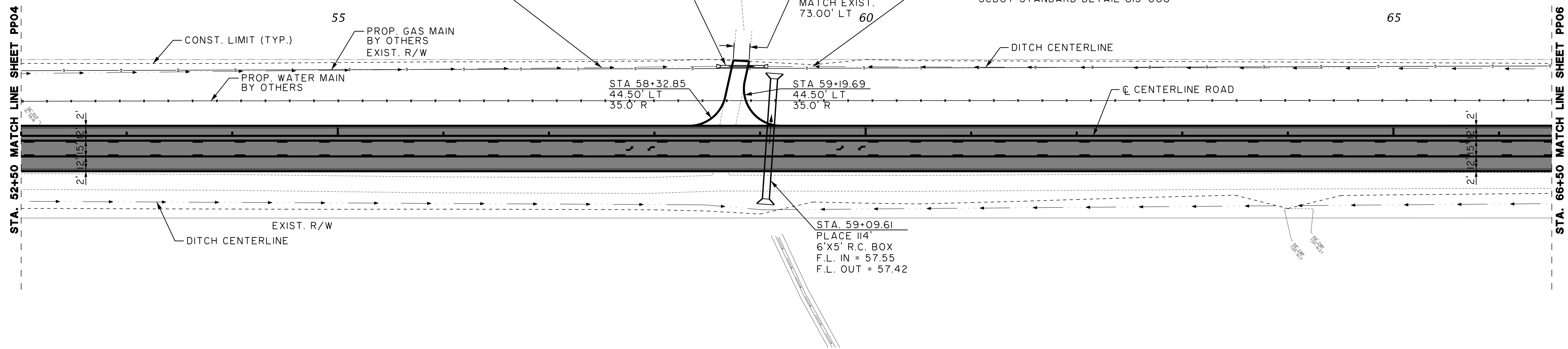


DOT R.W. DRAINAGE AREA = 2.17 ACRES
EIGHT (8) EARTHEN FLOW CONTROL STRUCTURES
START STA. : 57+50
END STA. 58+50
SCDOT STANDARD DETAIL 815-008

PLACE 42'-24" R.C. PIPE
WITH BEVELED END SECTIONS
F.L. IN = 59.13
F.L. OUT = 57.42

MAINTENANCE
STONE 15.00'
MATCH EXIST.
73.00' LT

DOT R.W. DRAINAGE AREA = 1.79 ACRES
SEVEN (7) EARTHEN FLOW CONTROL STRUCTURES
START STA. : 59+50
END STA. 60+50
SCDOT STANDARD DETAIL 815-008



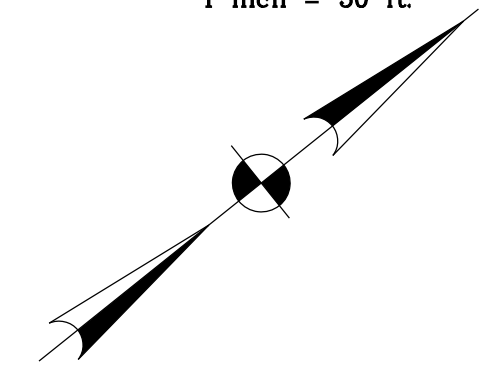
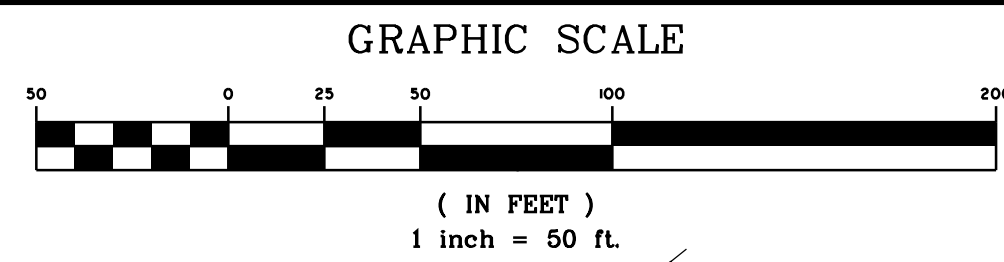
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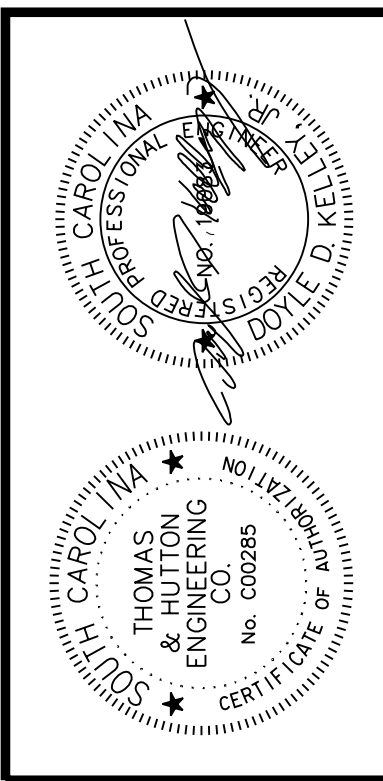
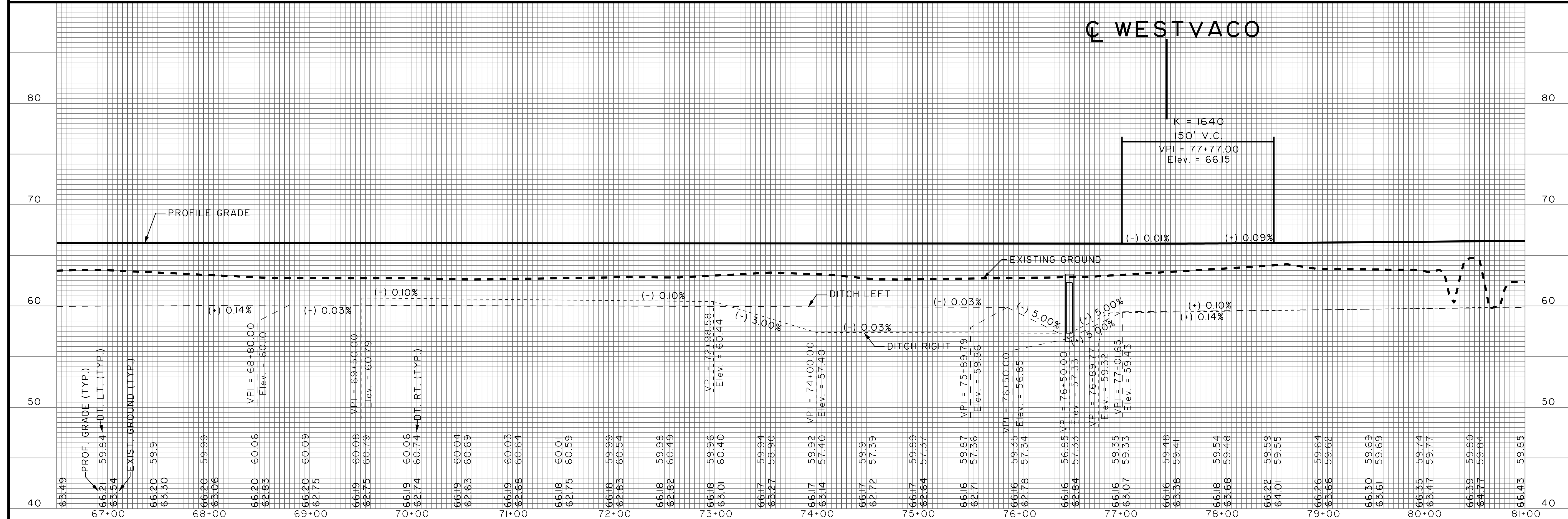
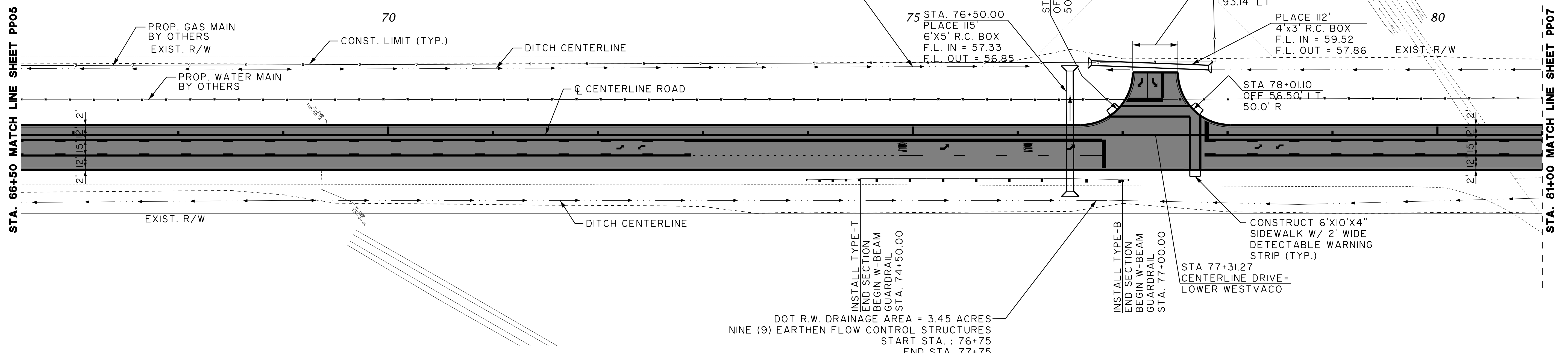
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SCALE: AS NOTED

PP05



DOT R.W. DRAINAGE AREA = 1.48 ACRES
SEVEN (7) EARTHEN FLOW CONTROL STRUCTURES
START STA. : 75+00
END STA. 76+00
SCDOT STANDARD DETAIL 815-008

DOT R.W. DRAINAGE AREA = 3.45 ACRES
NINE (9) EARTHEN FLOW CONTROL STRUCTURES
START STA. : 76+75
END STA. 77+75
SCDOT STANDARD DETAIL 815-008



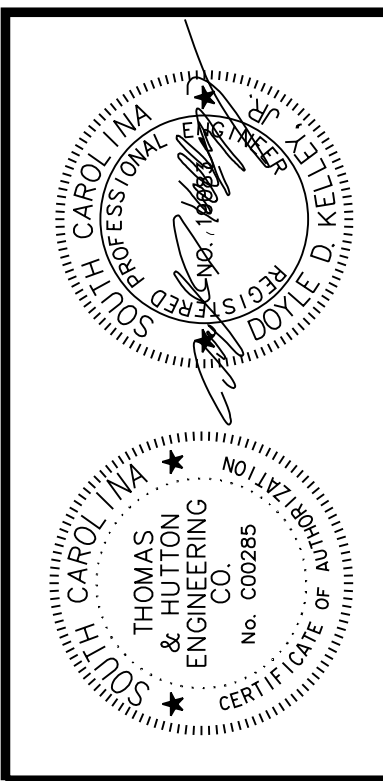
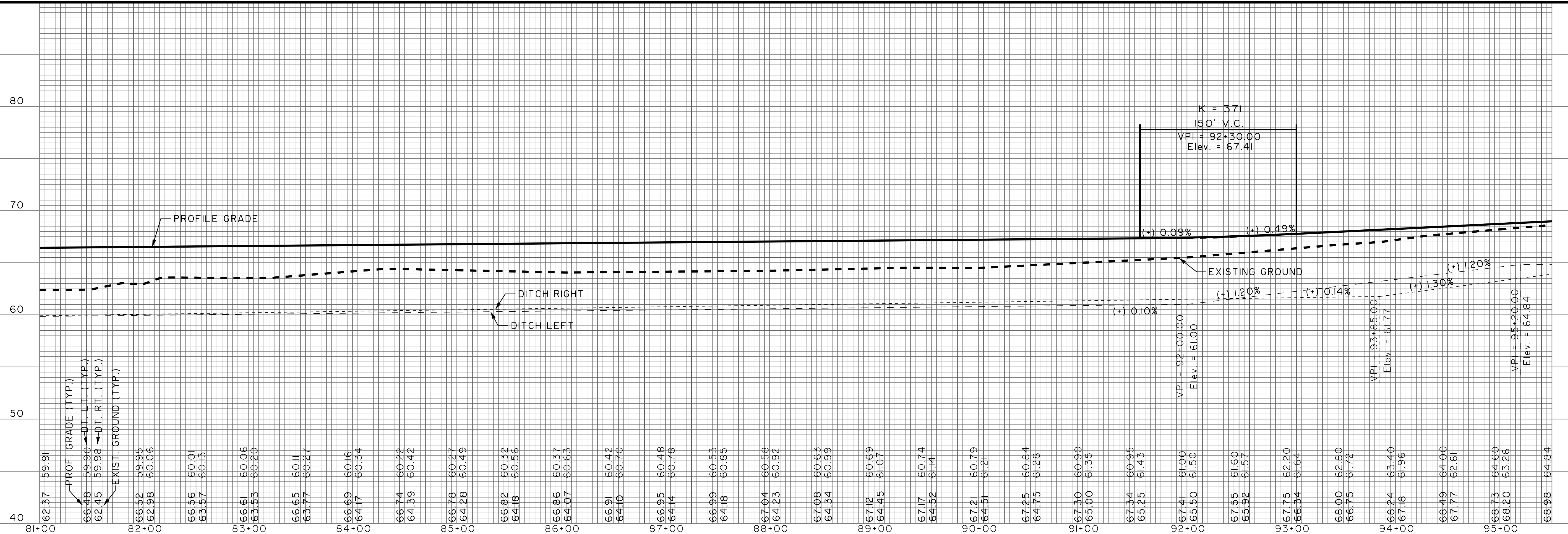
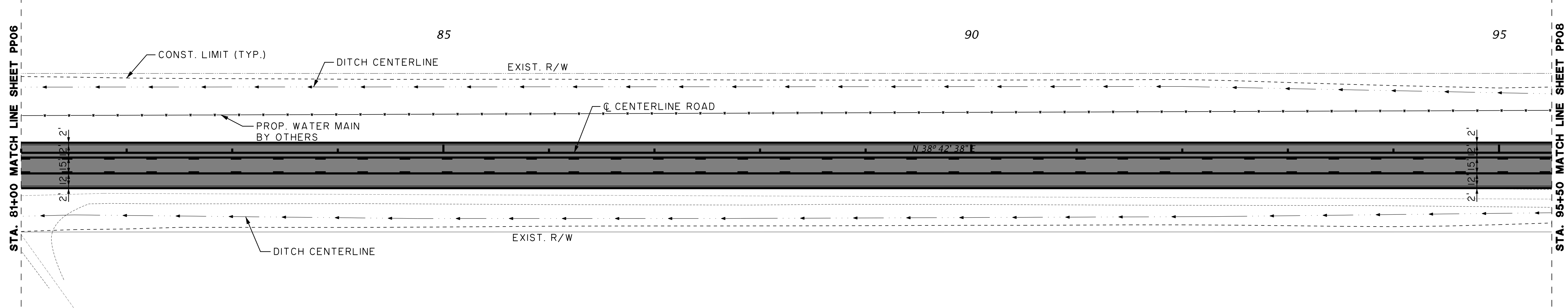
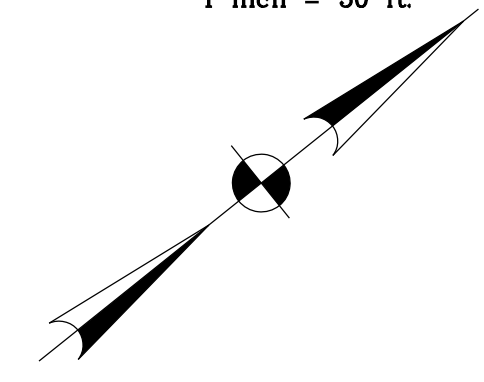
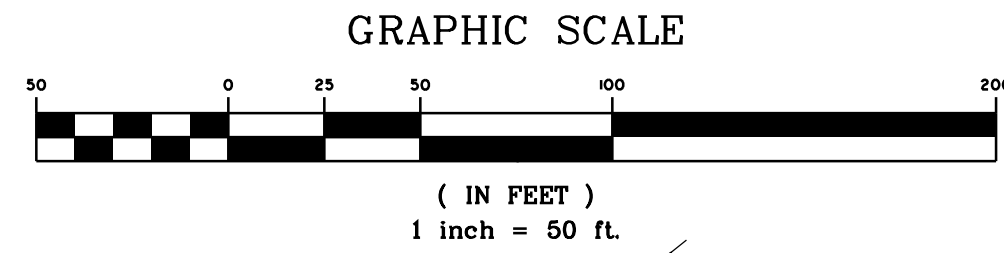
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SCALE: AS NOTED

PP06



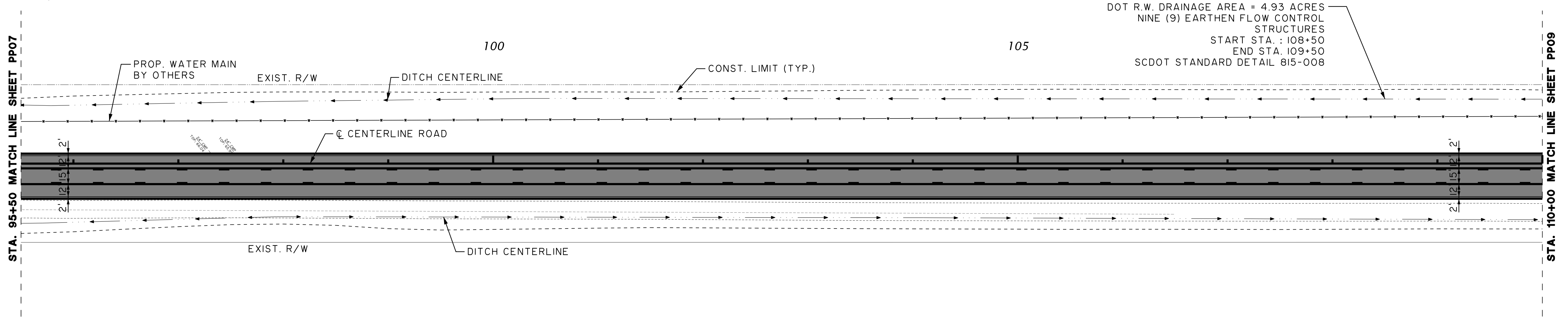
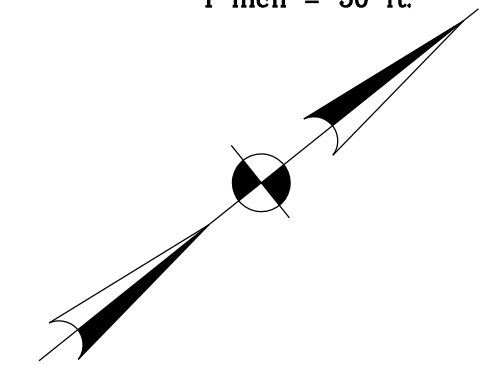
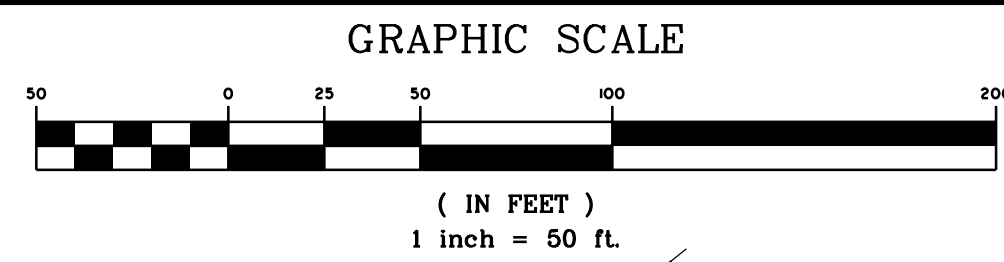
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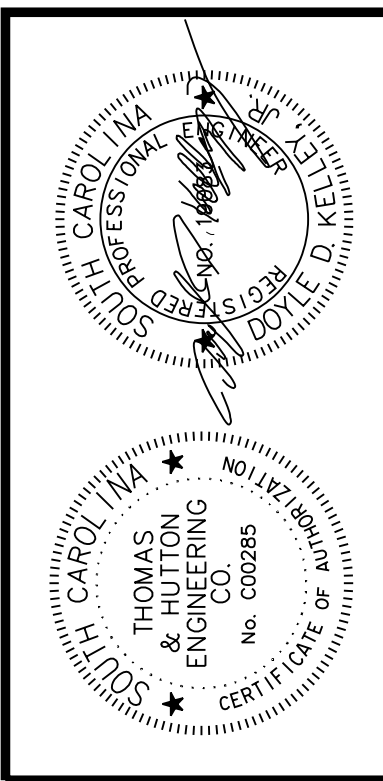
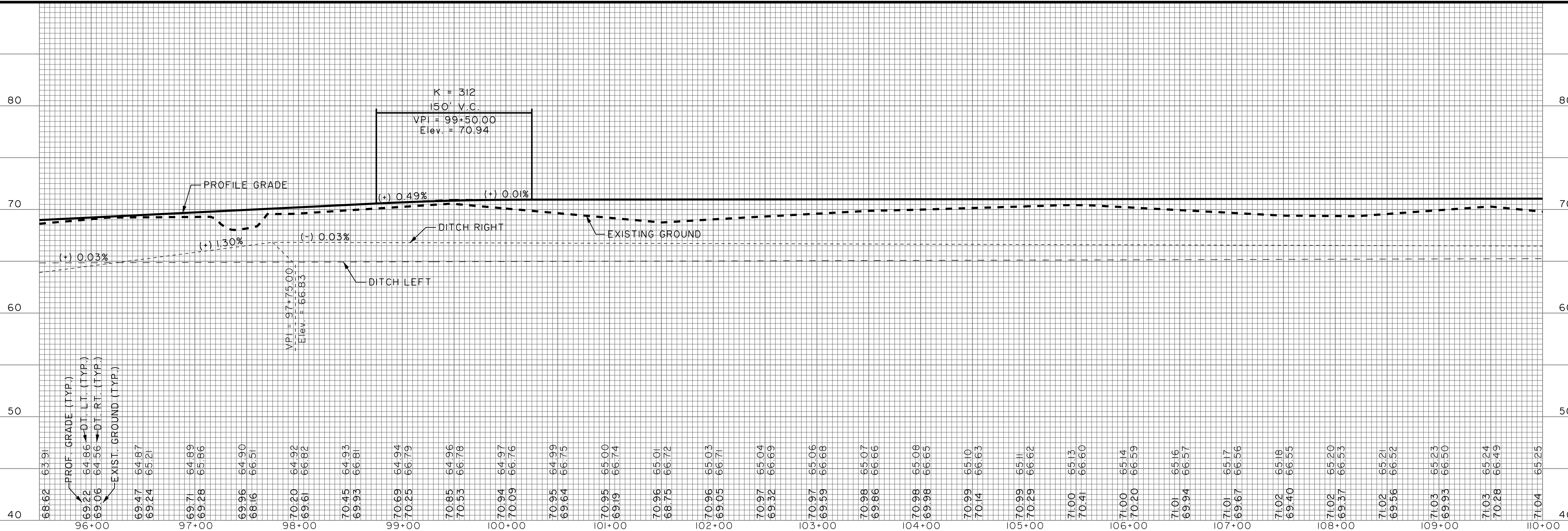
BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
CENTERLINE ROAD
 PLAN AND PROFILE

JOB NO: J-25644.005
 DATE: _____
 DRAWN: _____
 DESIGNED: _____
 REVIEWED: _____
 APPROVED: _____
 SCALE: AS NOTED

PP07



DOT R.W. DRAINAGE AREA = 4.93 ACRES
 NINE (9) EARTHEN FLOW CONTROL STRUCTURES
 START STA. : 108+50
 END STA. 109+50
 SCDOT STANDARD DETAIL 815-008



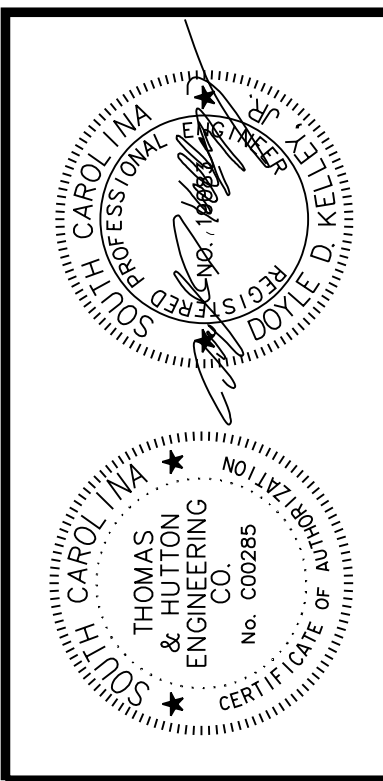
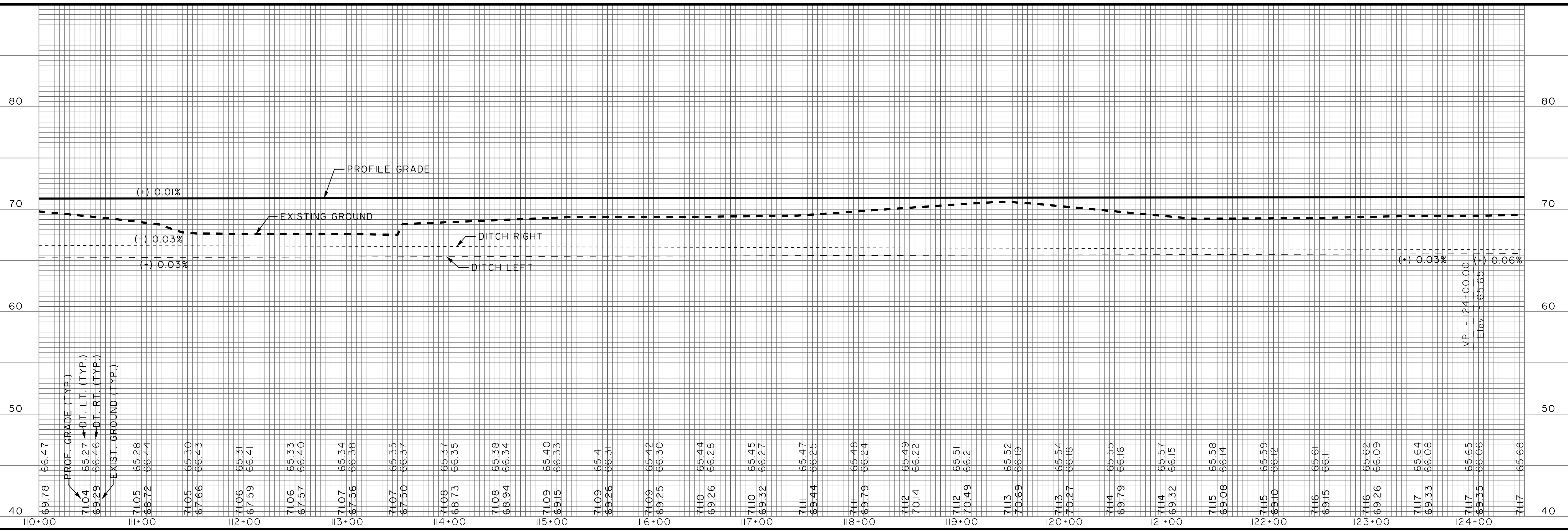
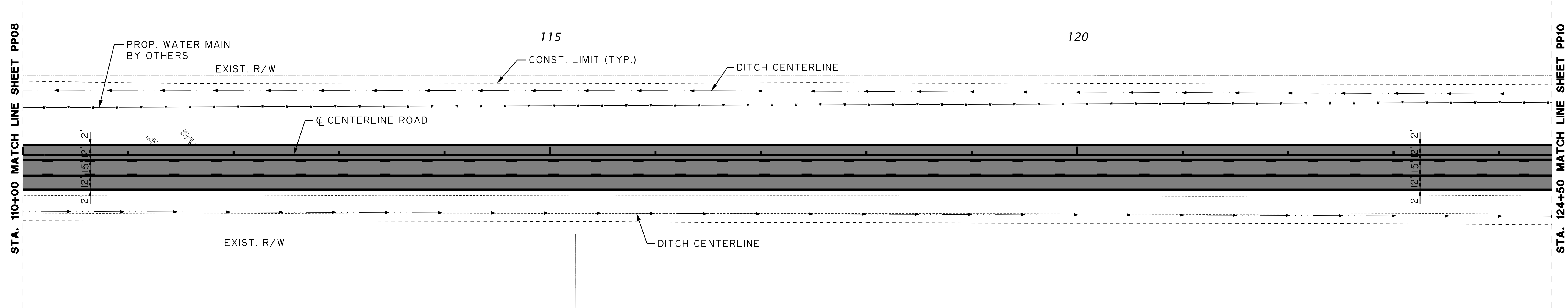
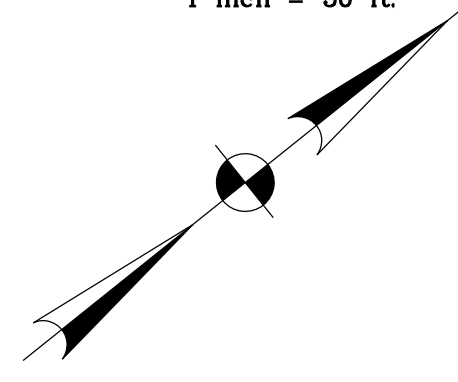
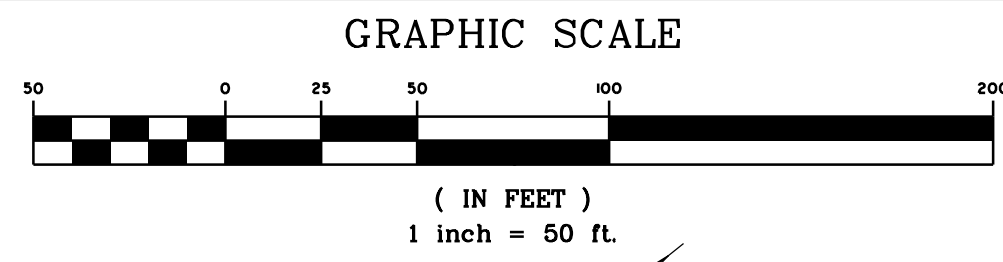
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 SCALE: AS NOTED

PP08



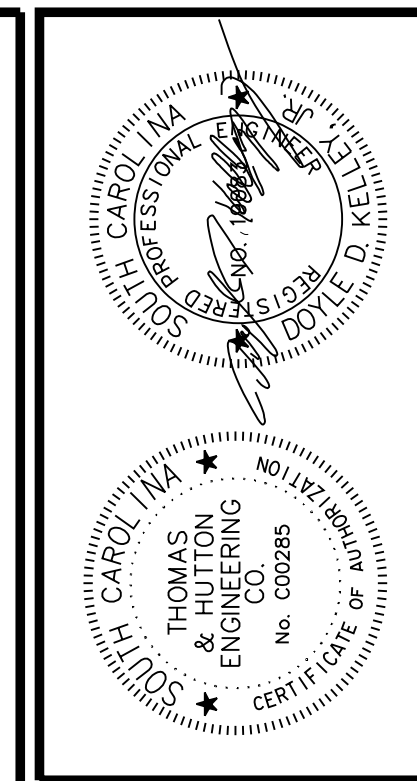
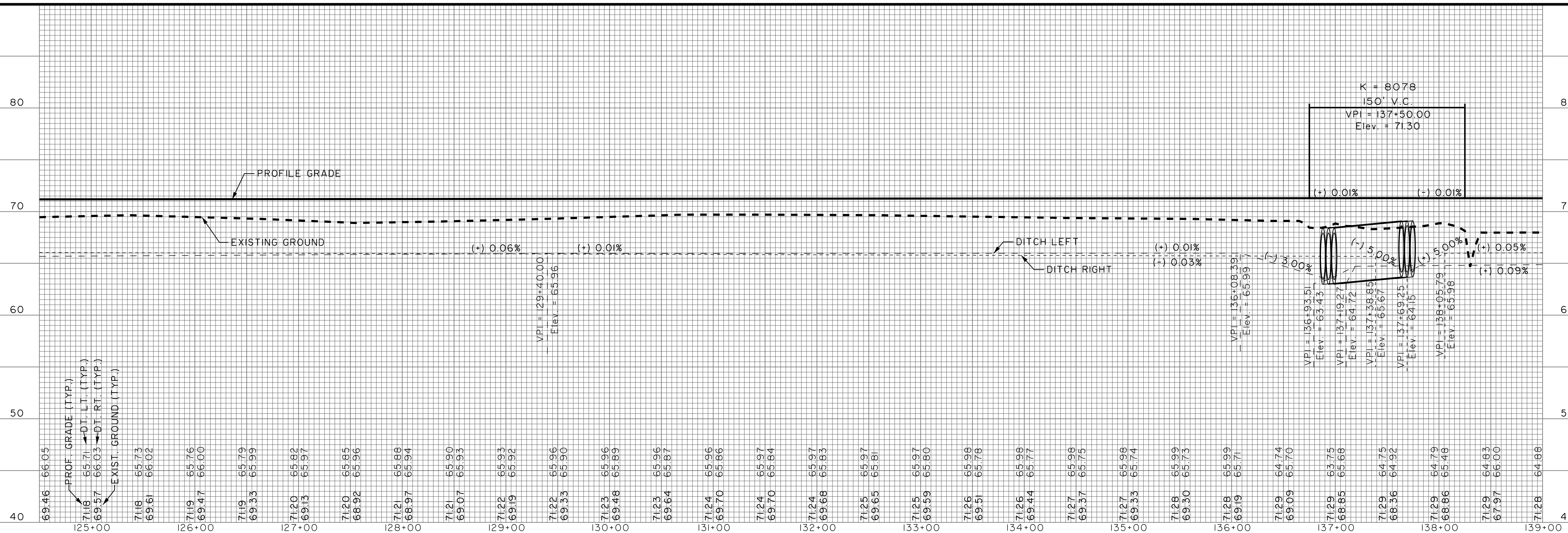
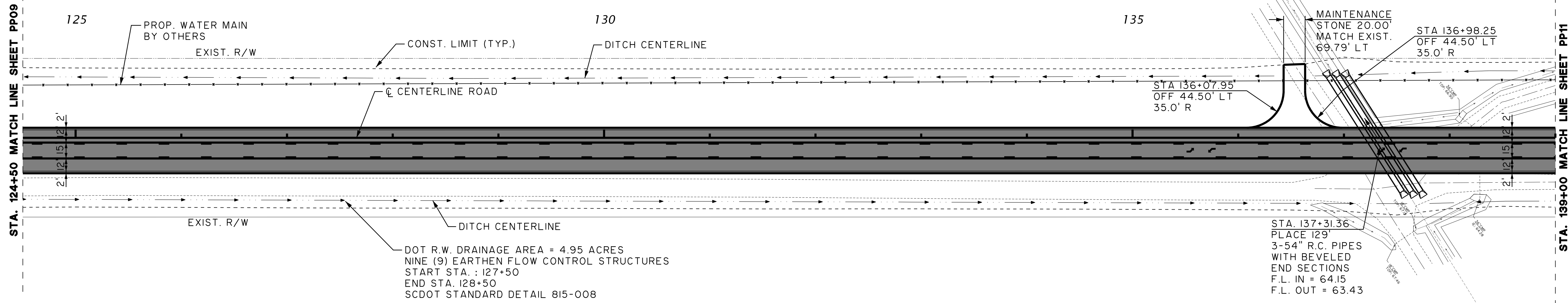
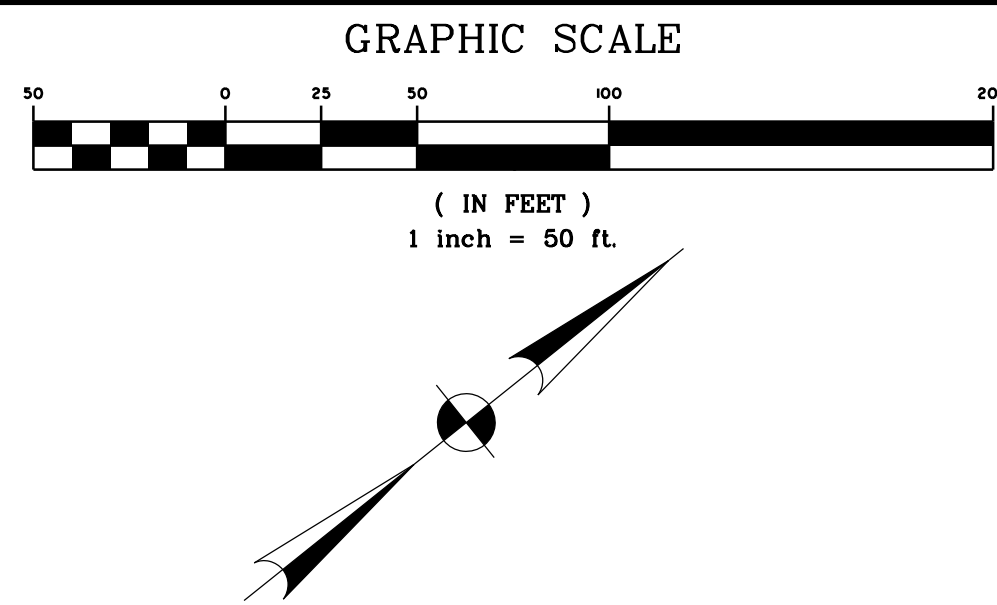
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PP09



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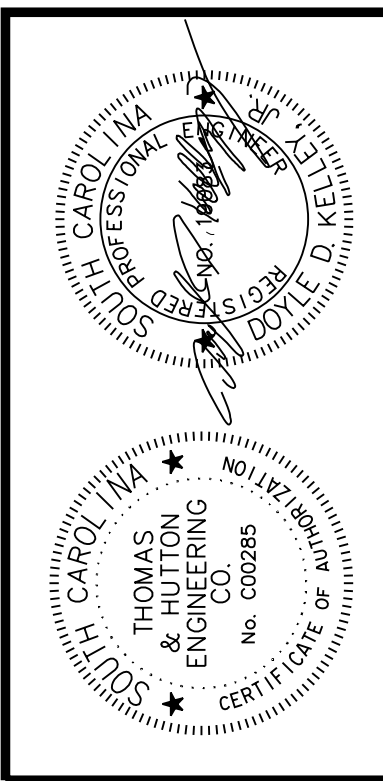
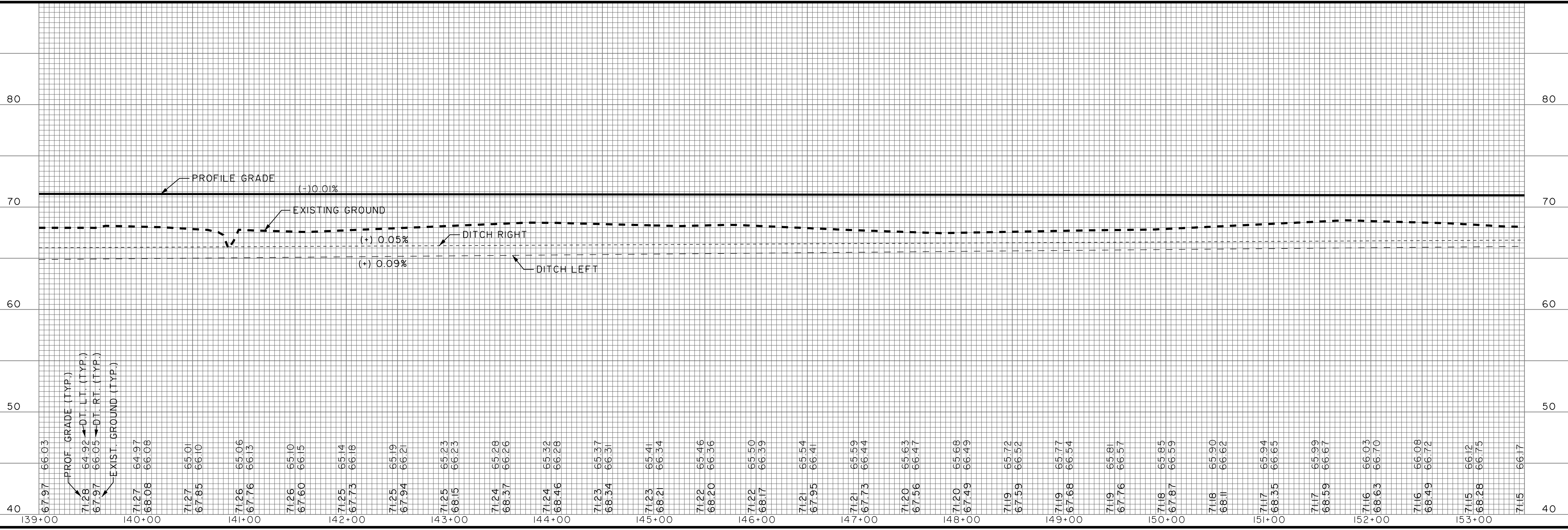
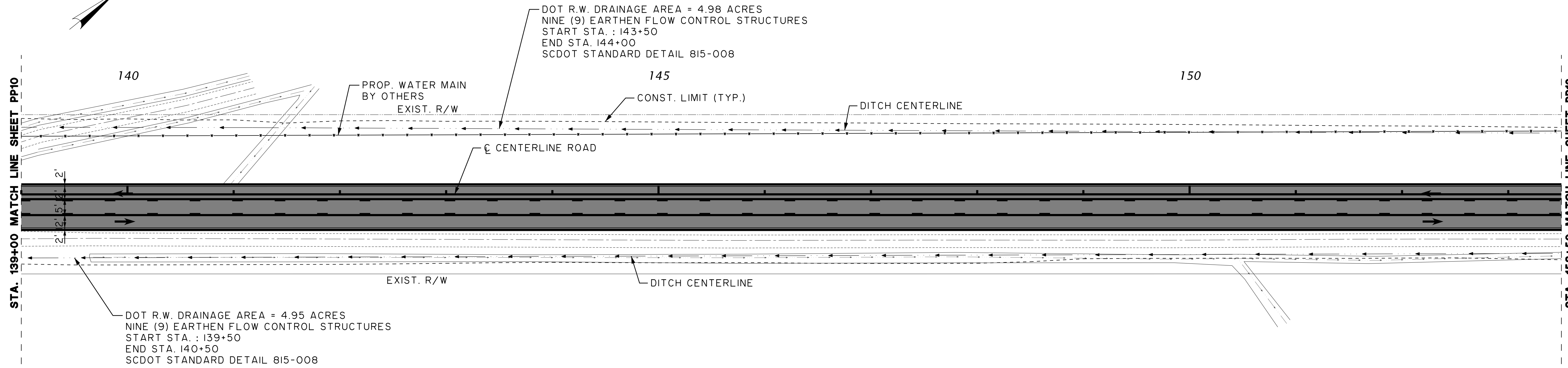
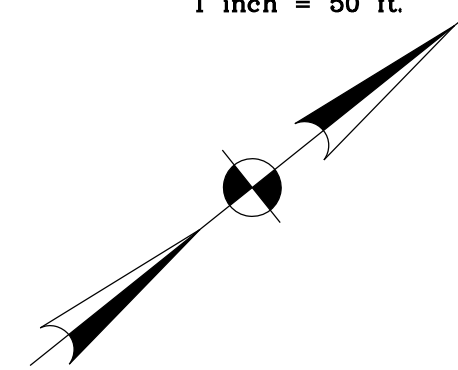
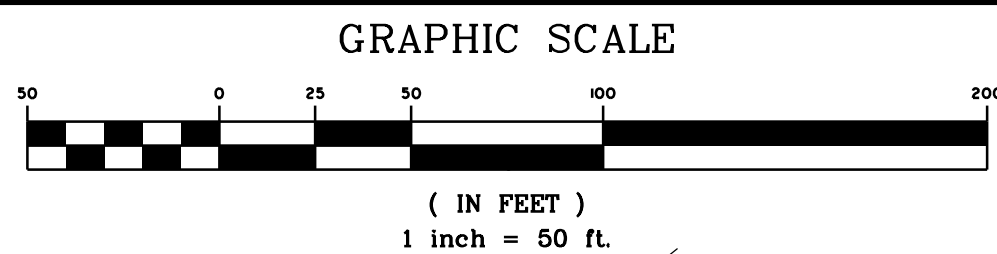
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CENTERLINE ROAD

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JOB NO: J-25644.0005
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PP10



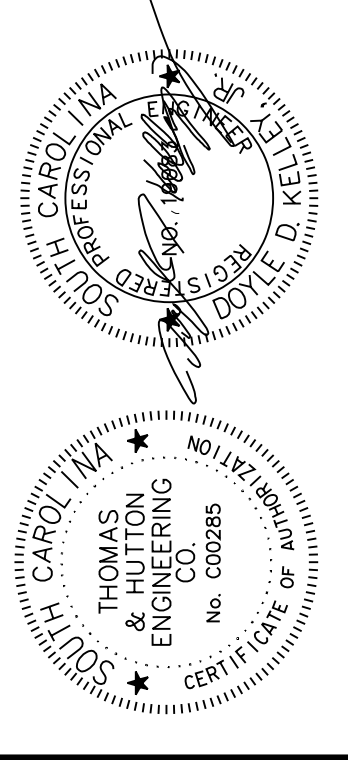
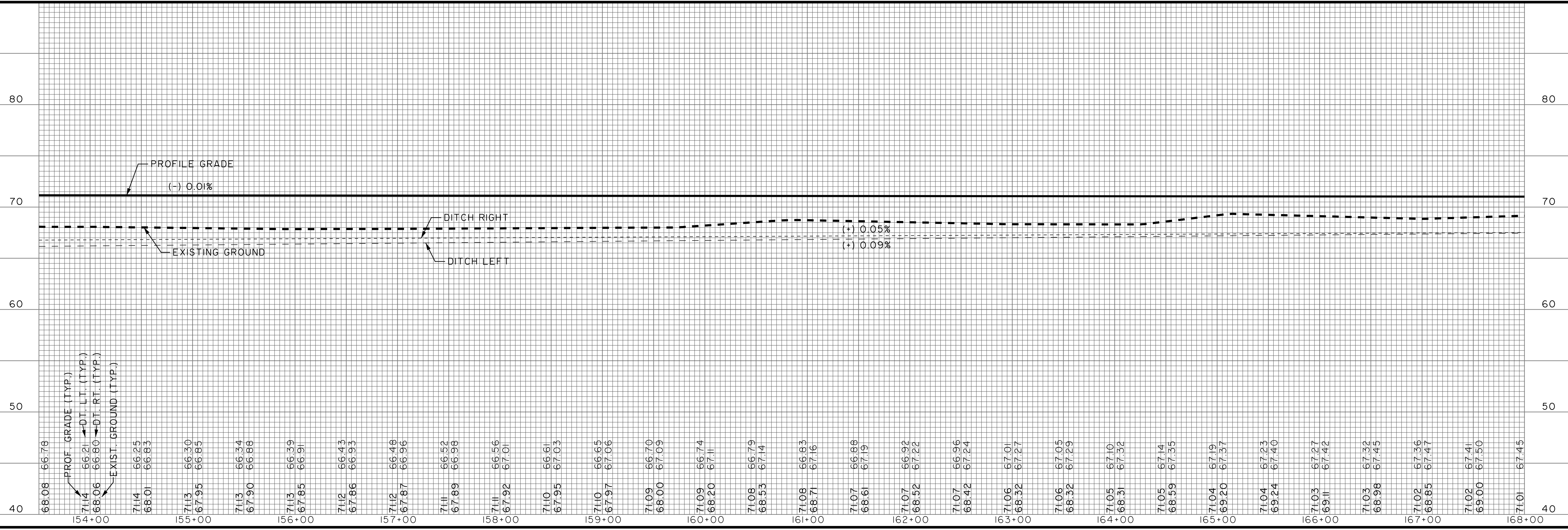
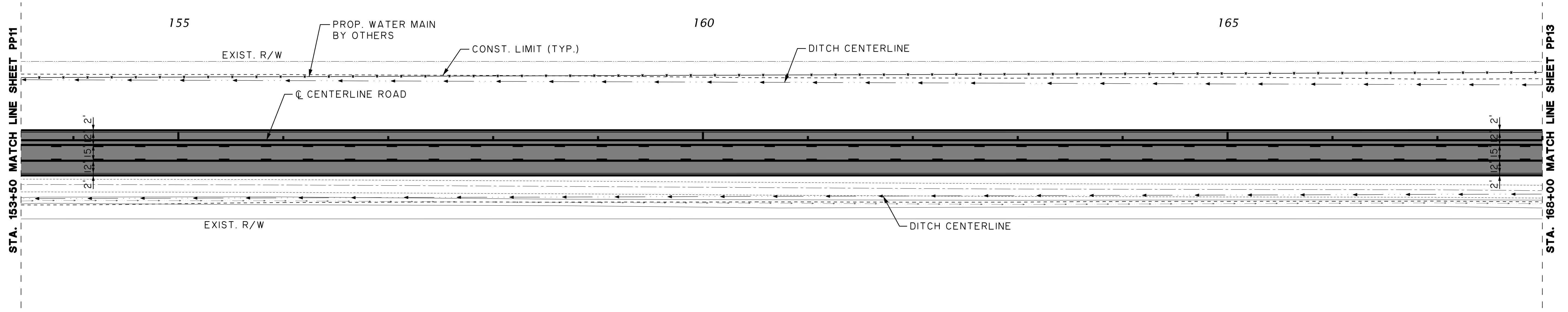
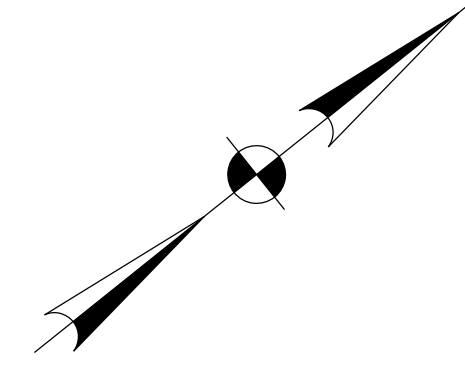
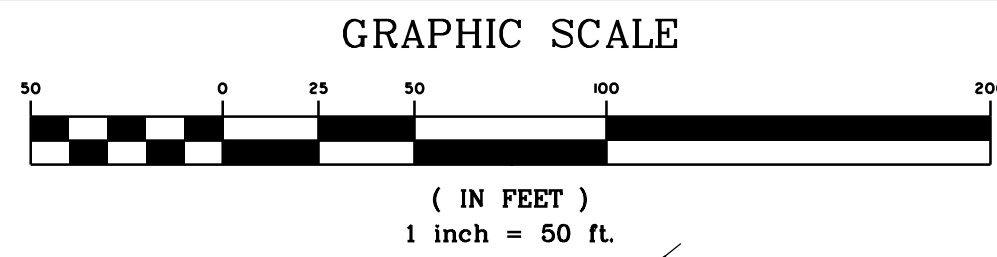
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PP11



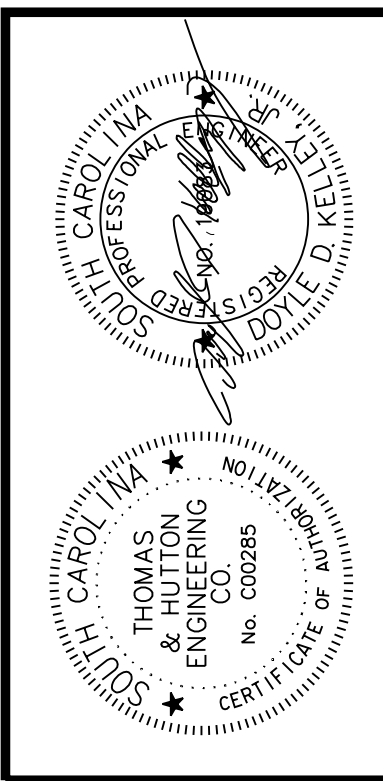
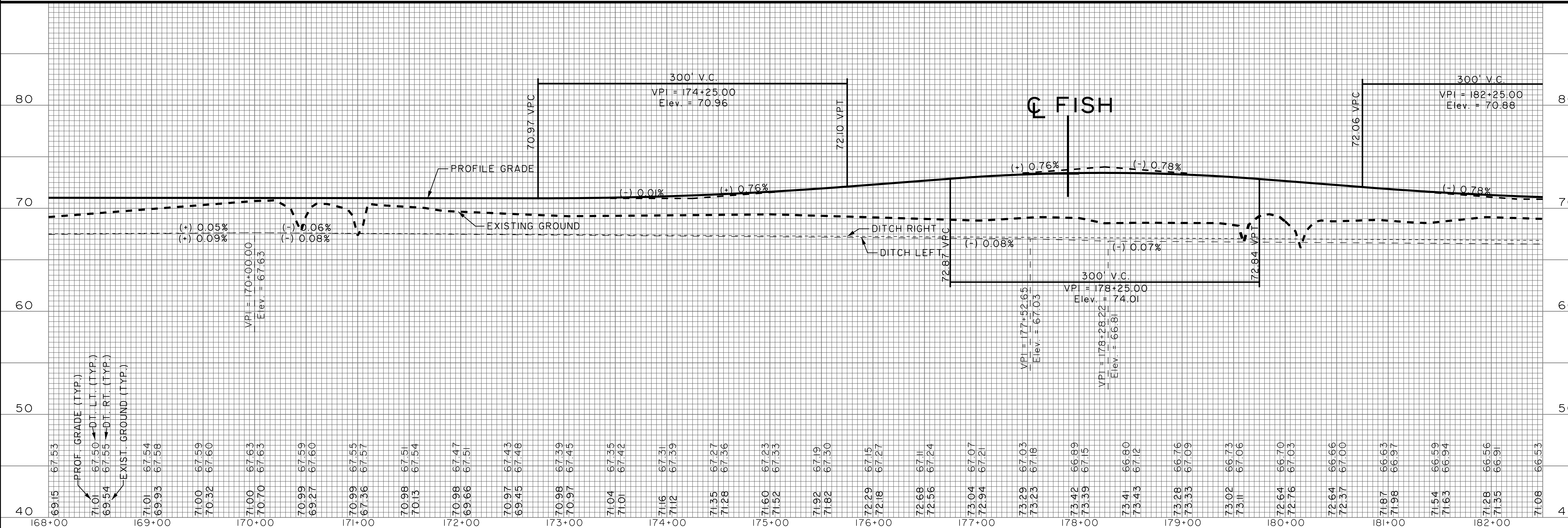
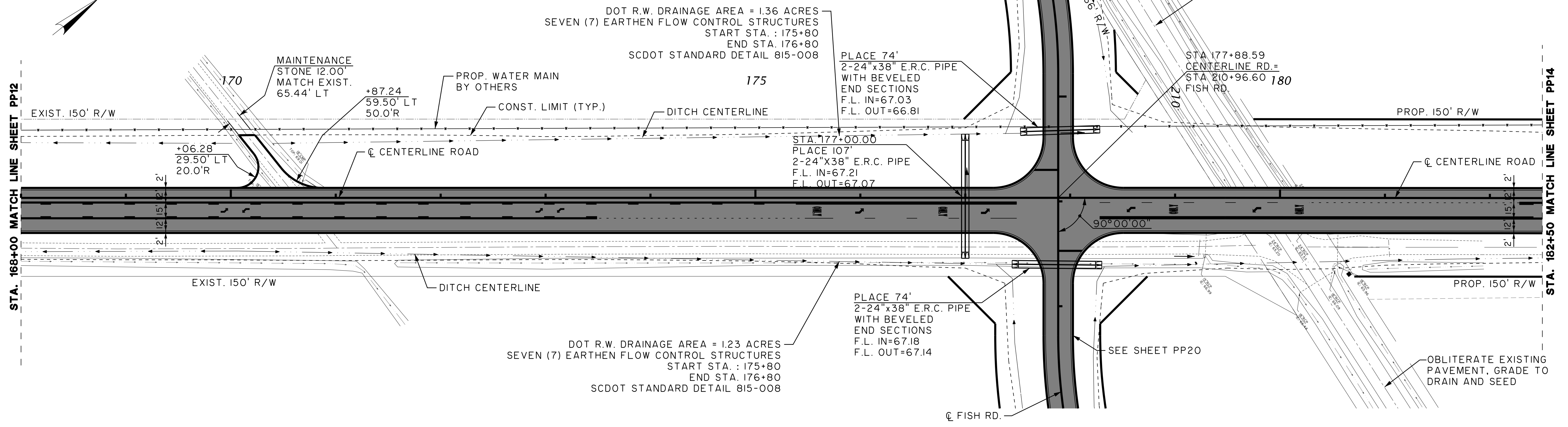
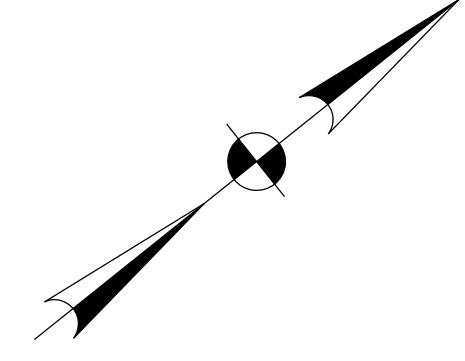
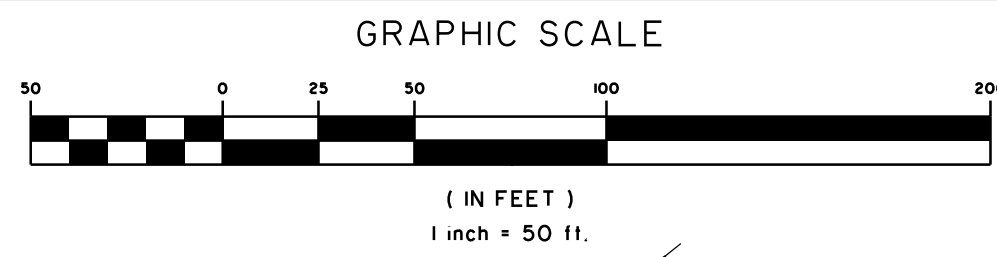
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PP12



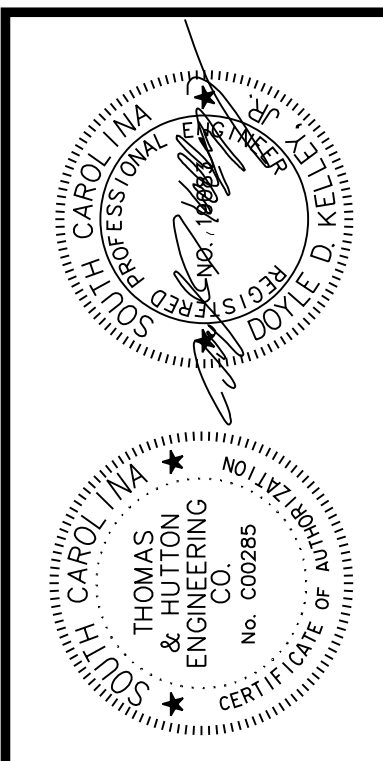
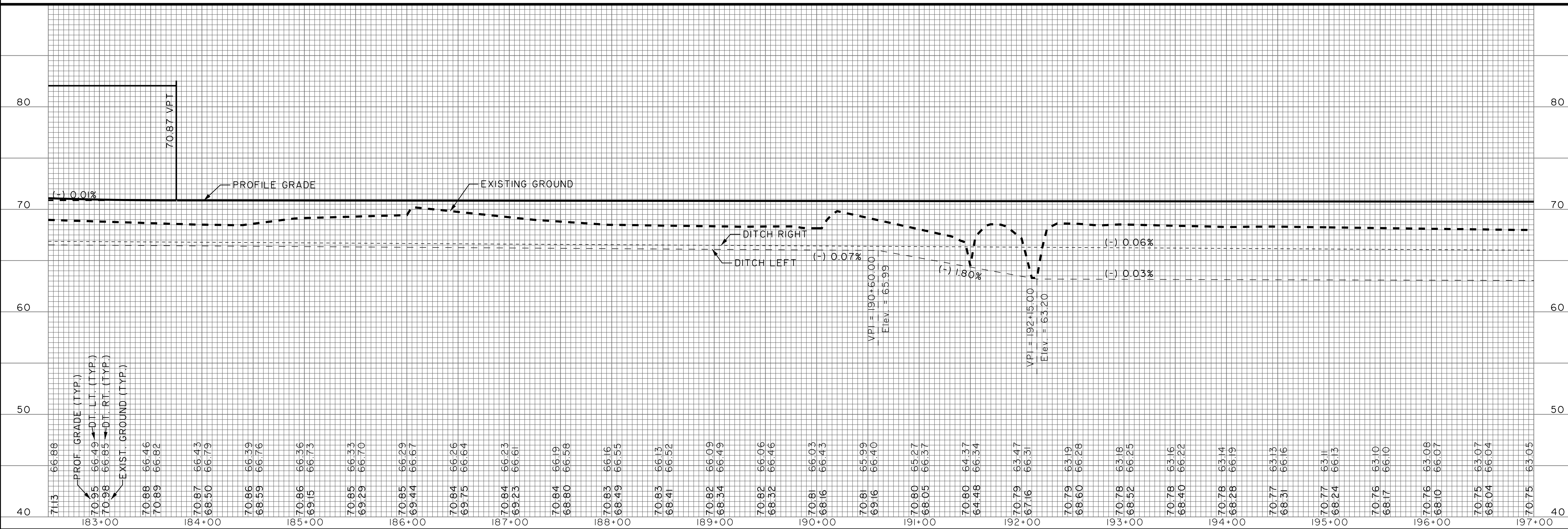
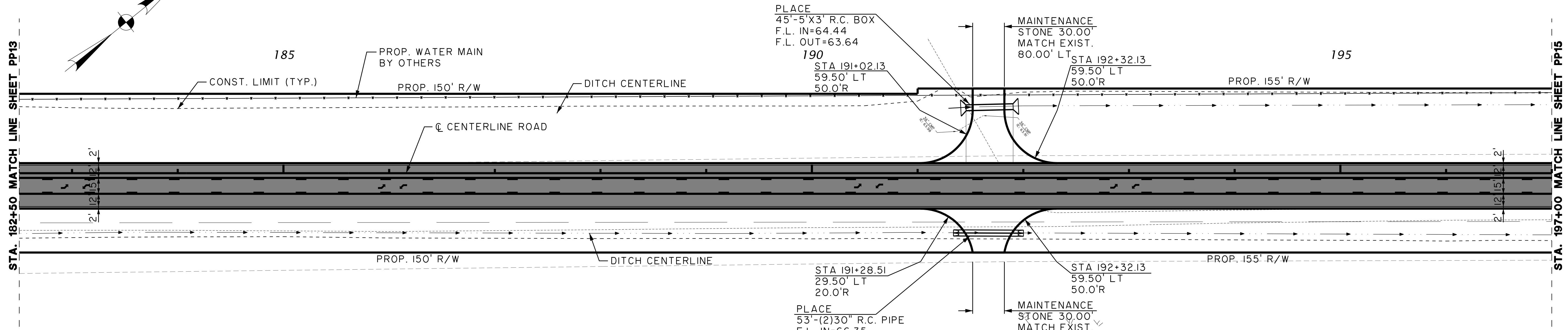
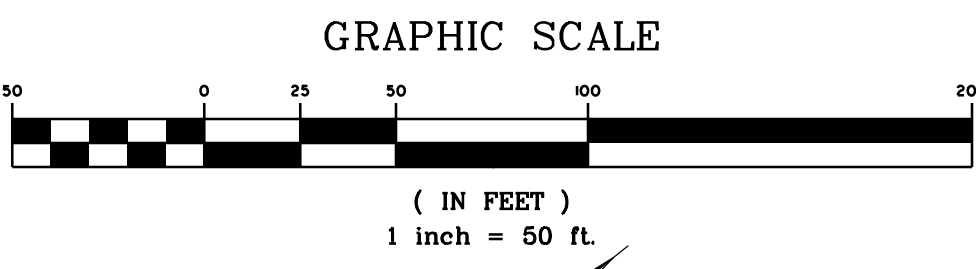
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PP13



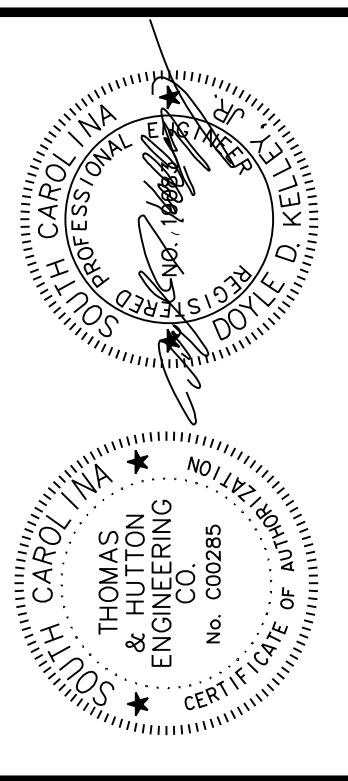
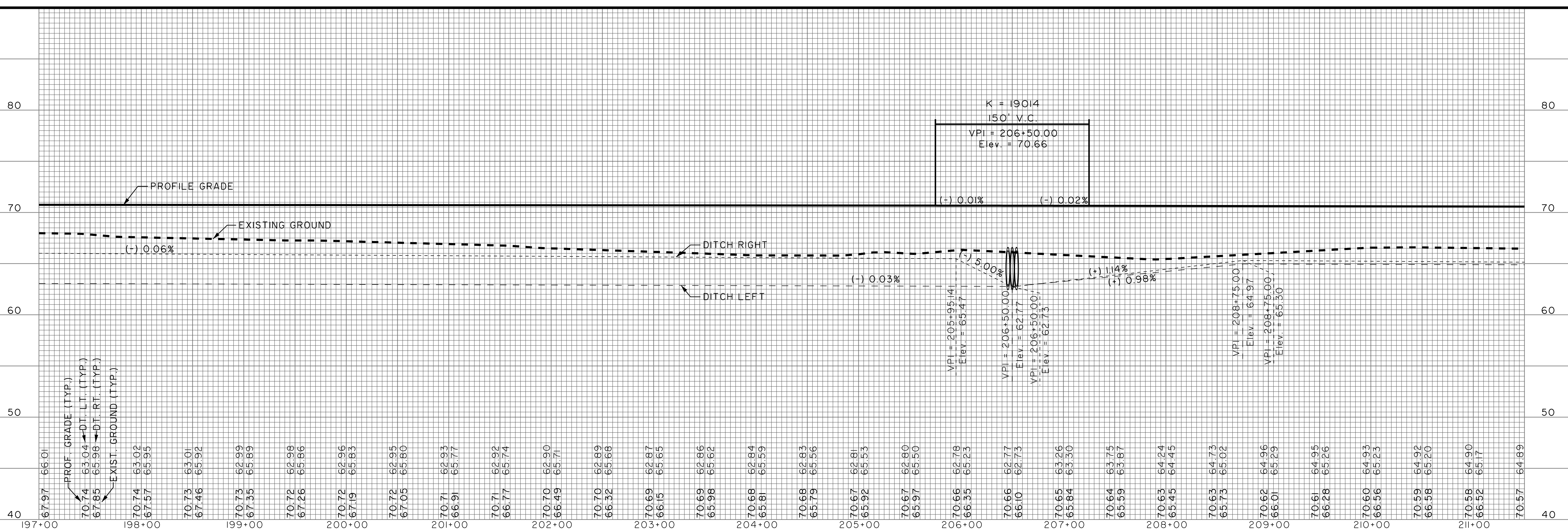
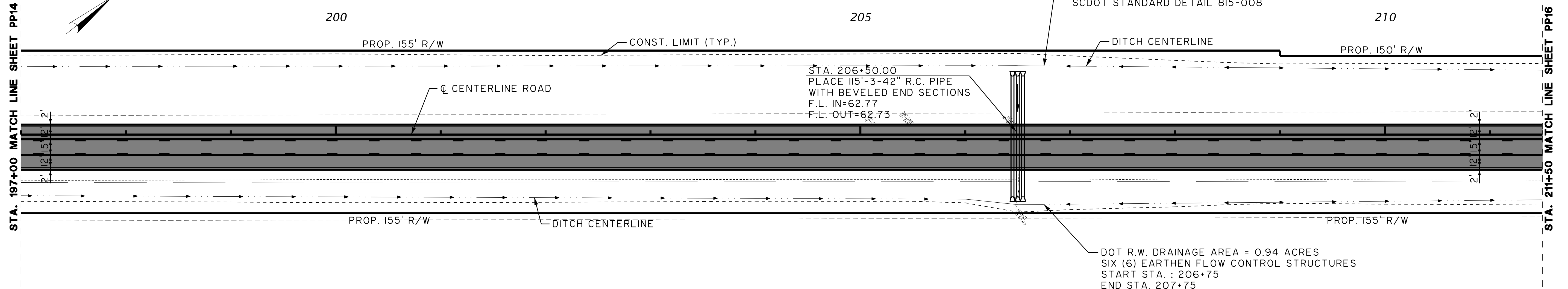
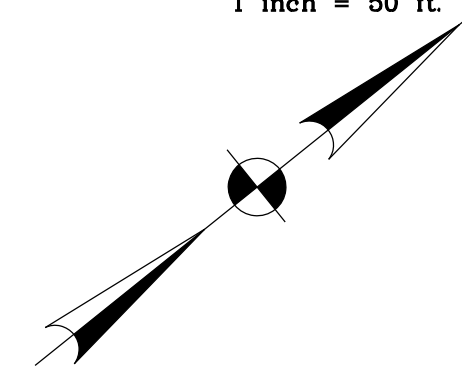
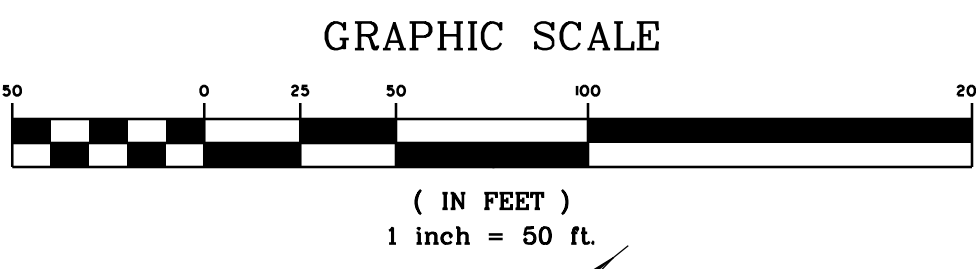
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 SCALE: AS NOTED

PP14



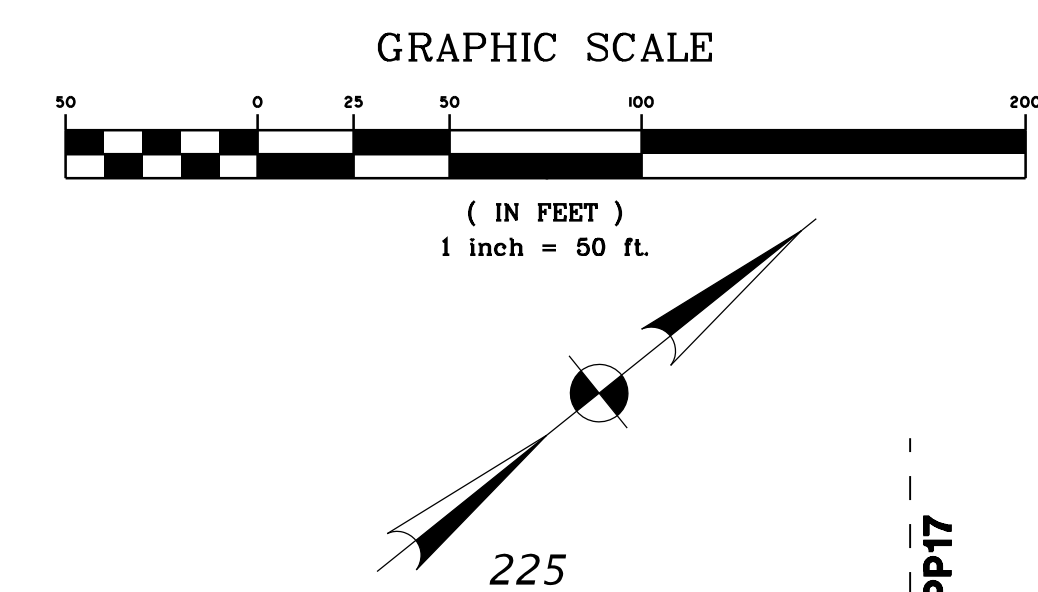
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JOB NO: J-25644.005
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APPROVED: _____
SCALE: AS NOTED

PP15



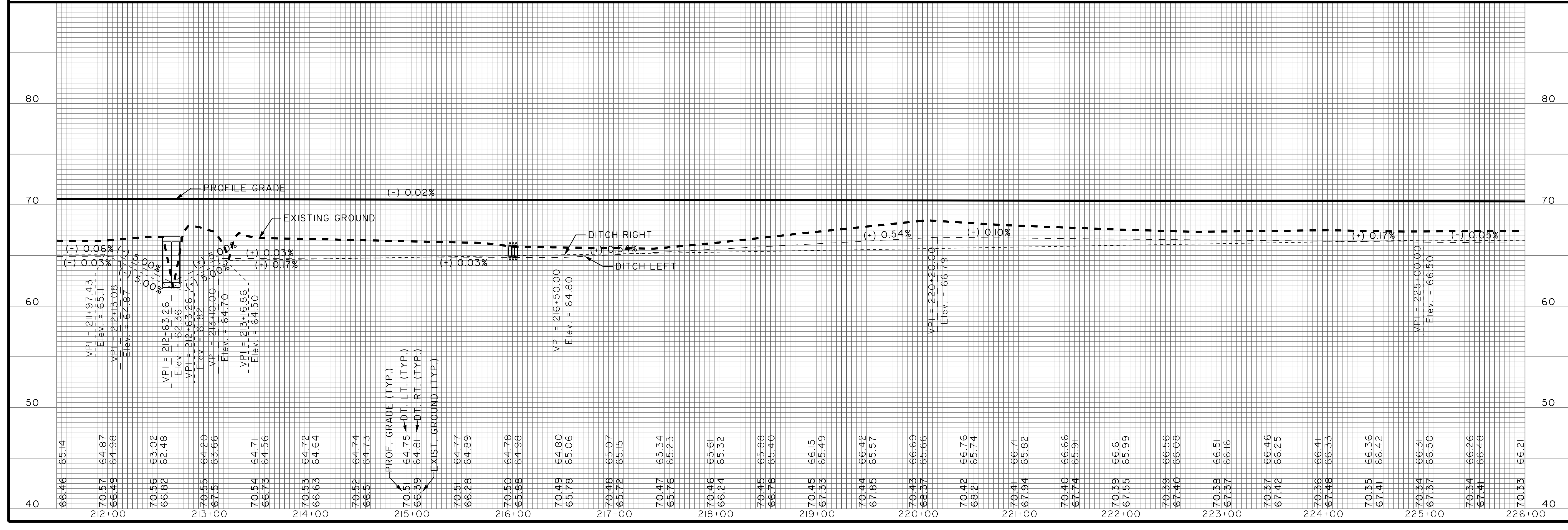
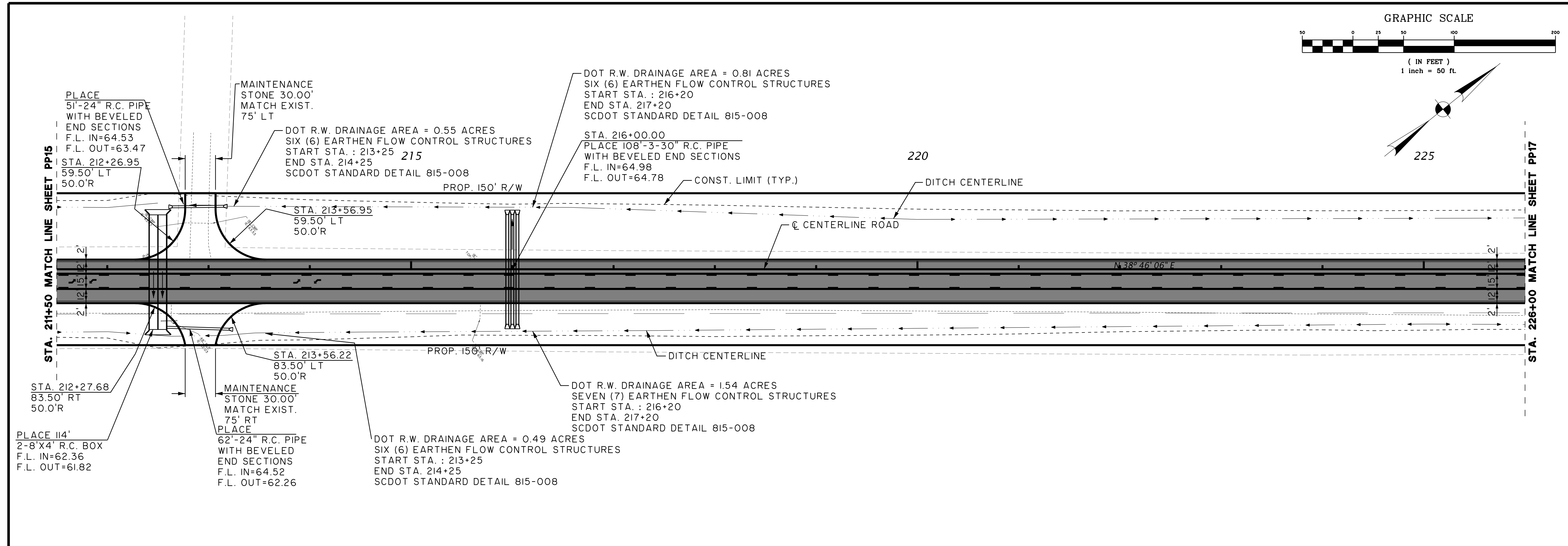
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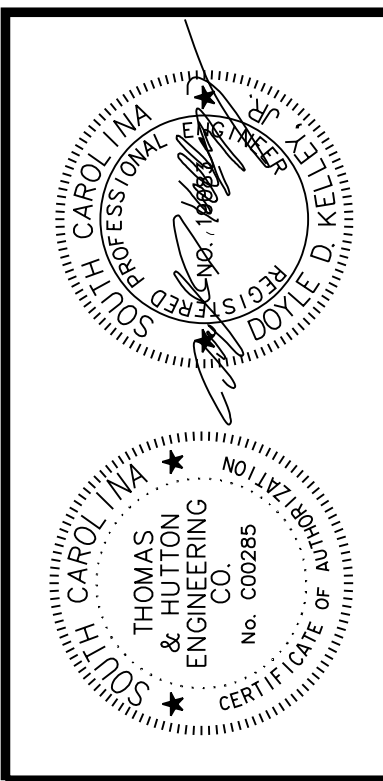
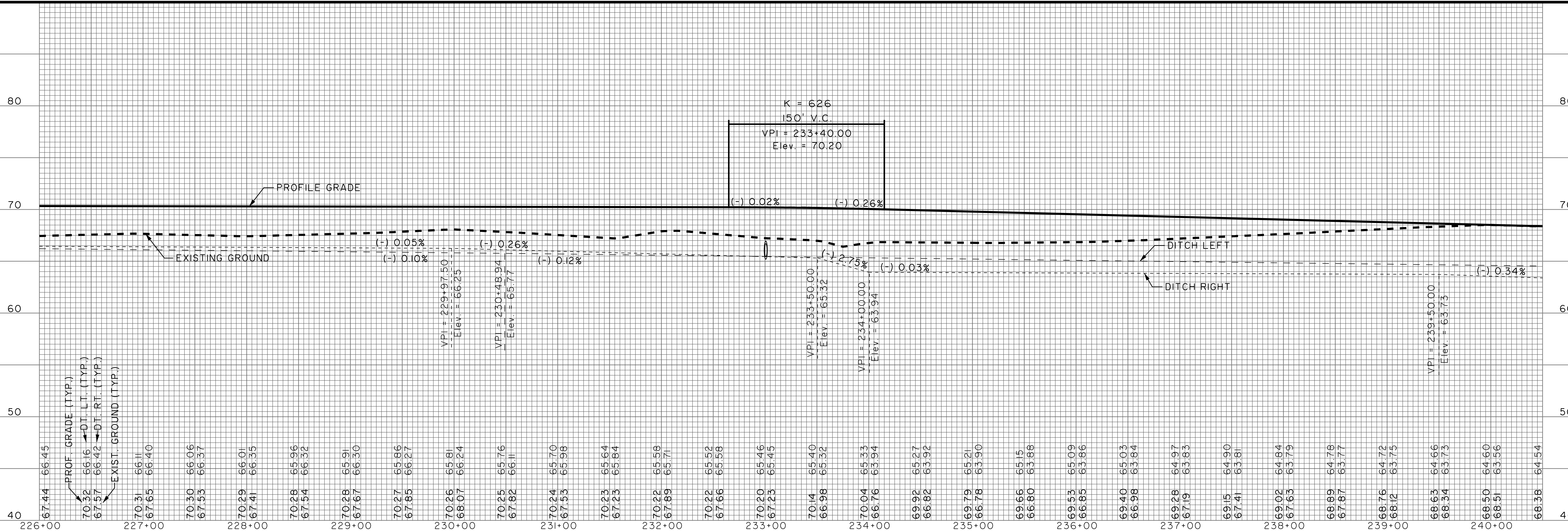
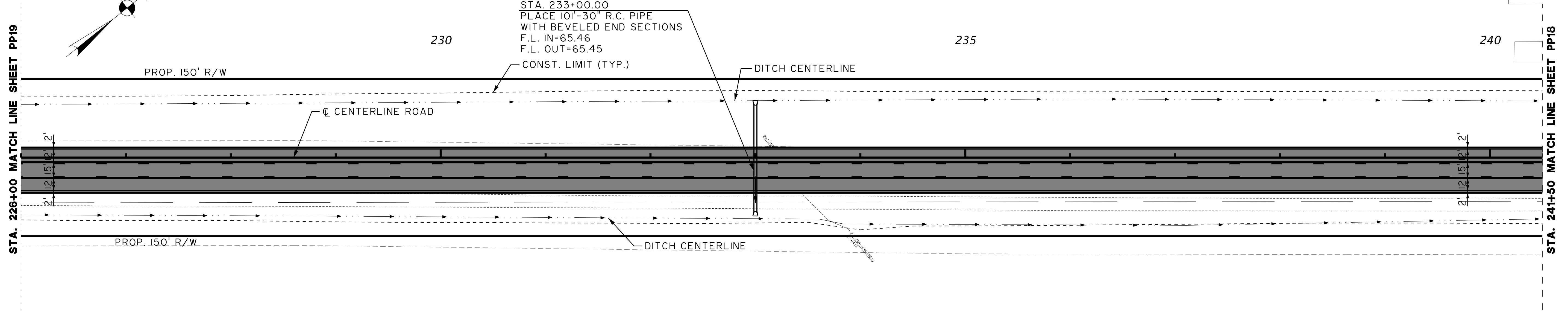
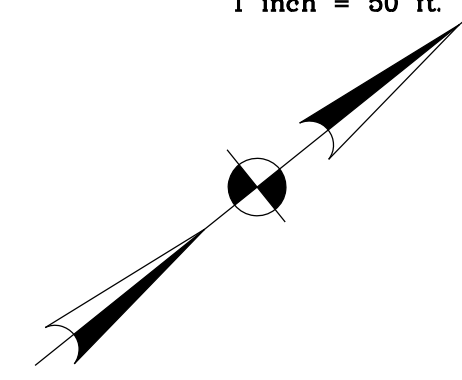
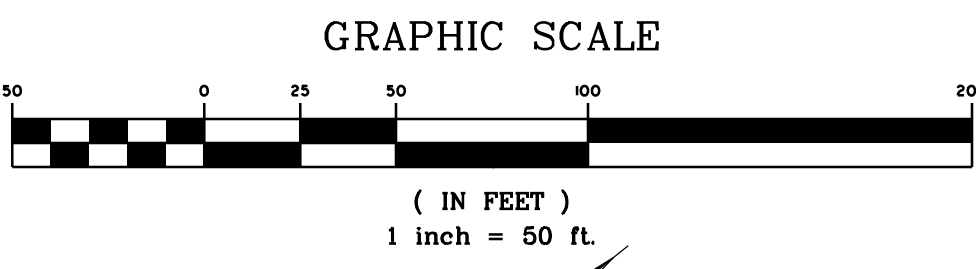
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PP16





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PP17



DOT R.W. DRAINAGE AREA = 4.57 ACRES
 NINE (9) EARTHEN FLOW CONTROL STRUCTURES
 START STA. : 244+00
 END STA. 245+00
 SCDOT STANDARD DETAIL 815-008

STA. 244+00.00
 PLACE 99'
 18" R.C. PIPE
 F.L. IN=64.11
 F.L. OUT=62.21

MAINTENANCE
 STONE 30'
 MATCH EXIST.
 75.00' LT

PLACE
 46'-24" R.C. PIPE
 WITH BEVELED
 END SECTIONS
 F.L. IN=63.98
 F.L. OUT=63.93

STA 244+57.79
 59.50' LT
 50.0' R

STA 245+87.79
 59.50' LT
 50.0' R

STA 245+59.71
 83.50' RT
 50.0' R

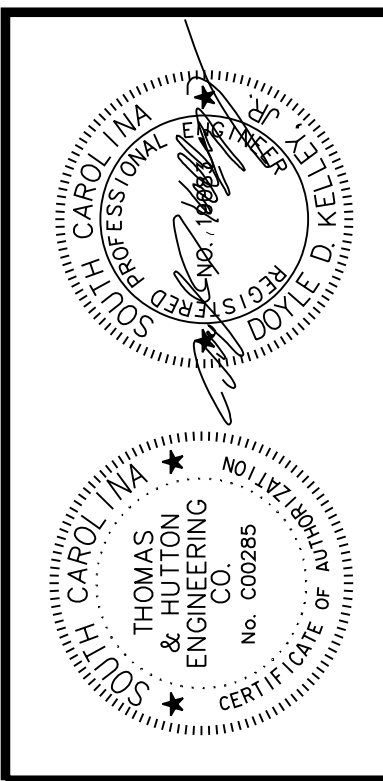
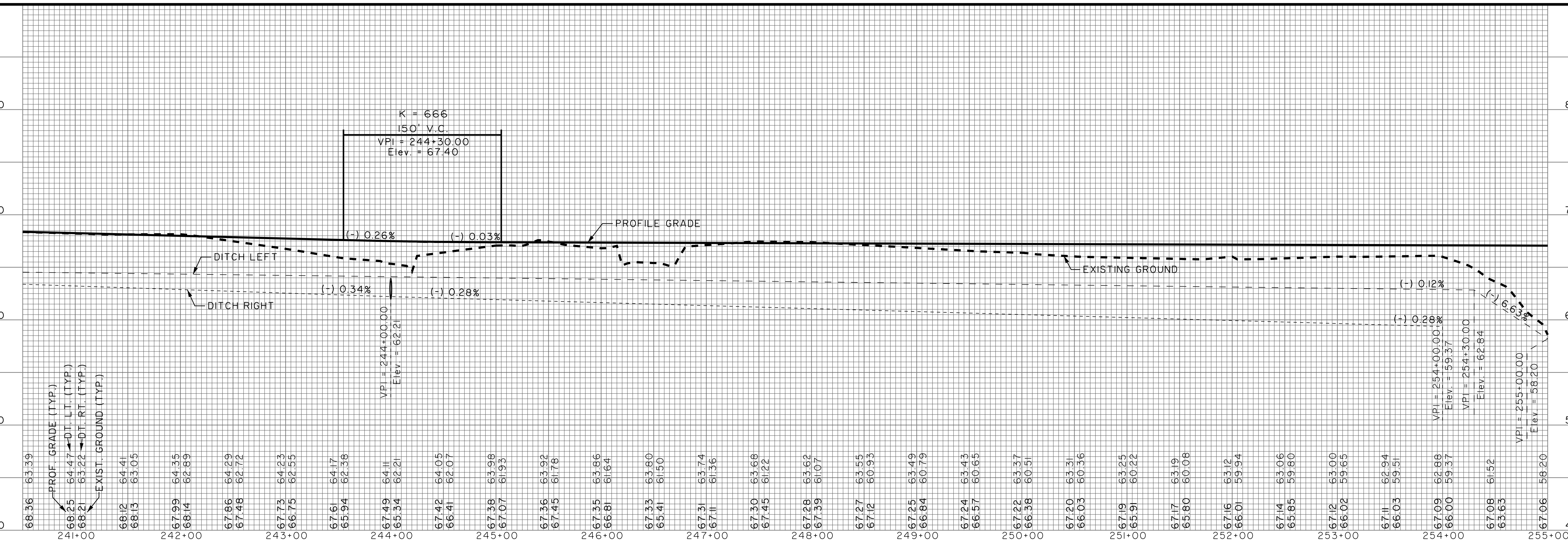
PLACE
 56'-5'X3' R.C. BOX
 F.L. IN=61.65
 F.L. OUT=61.50

STA 246+88.25
 83.50' LT
 50.0' R

DOT R.W. DRAINAGE AREA = 4.68 ACRES
 NINE (9) EARTHEN FLOW CONTROL STRUCTURES
 START STA. : 253+00
 END STA. 254+00
 SCDOT STANDARD DETAIL 815-008

STA. 240+50 MATCH LINE SHEET PP17

STA. 255+00 MATCH LINE SHEET PP19



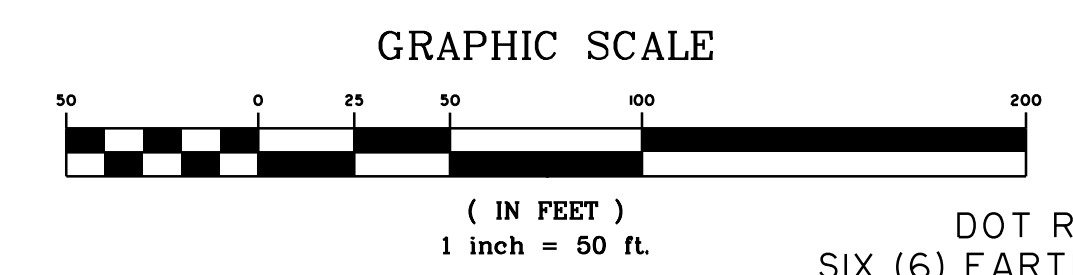
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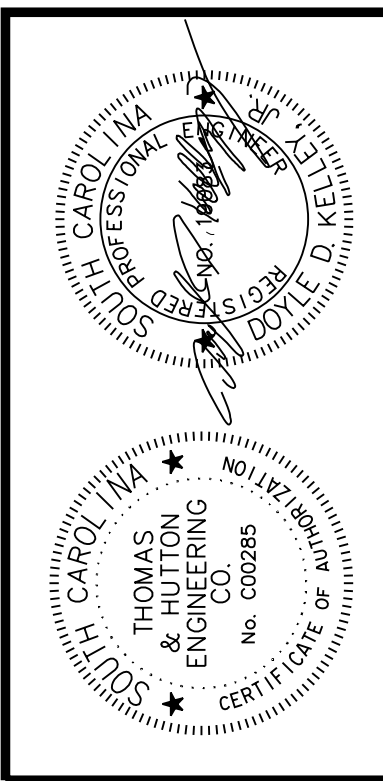
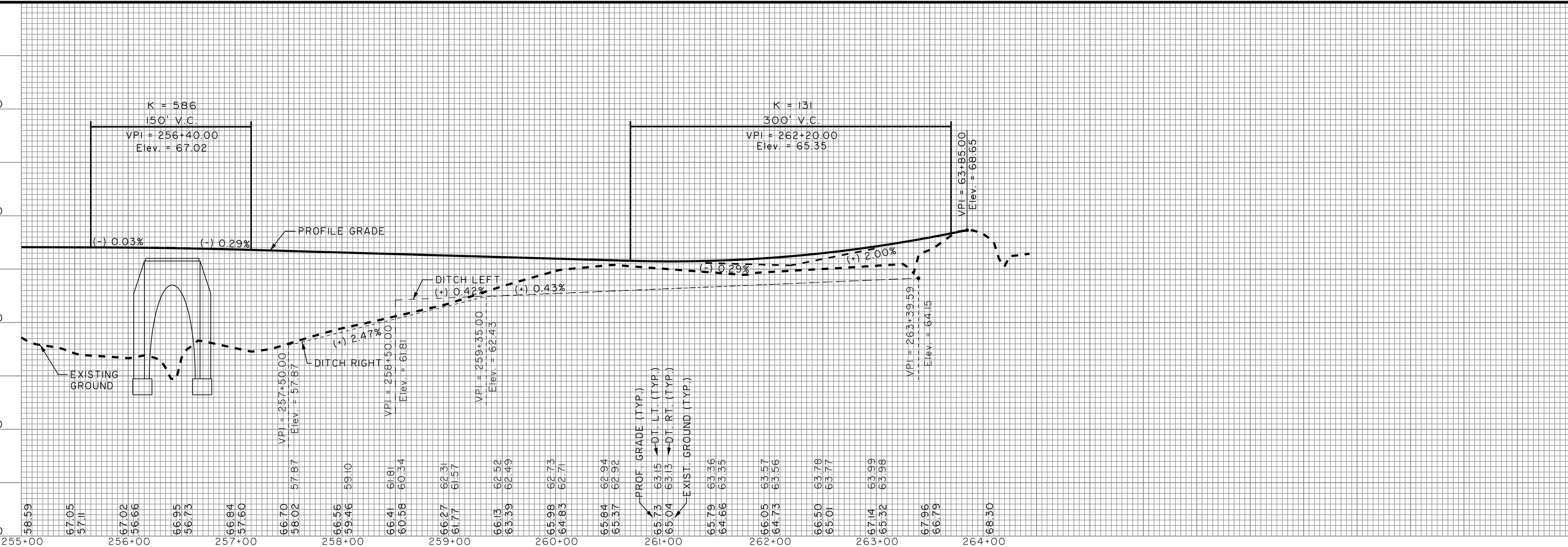
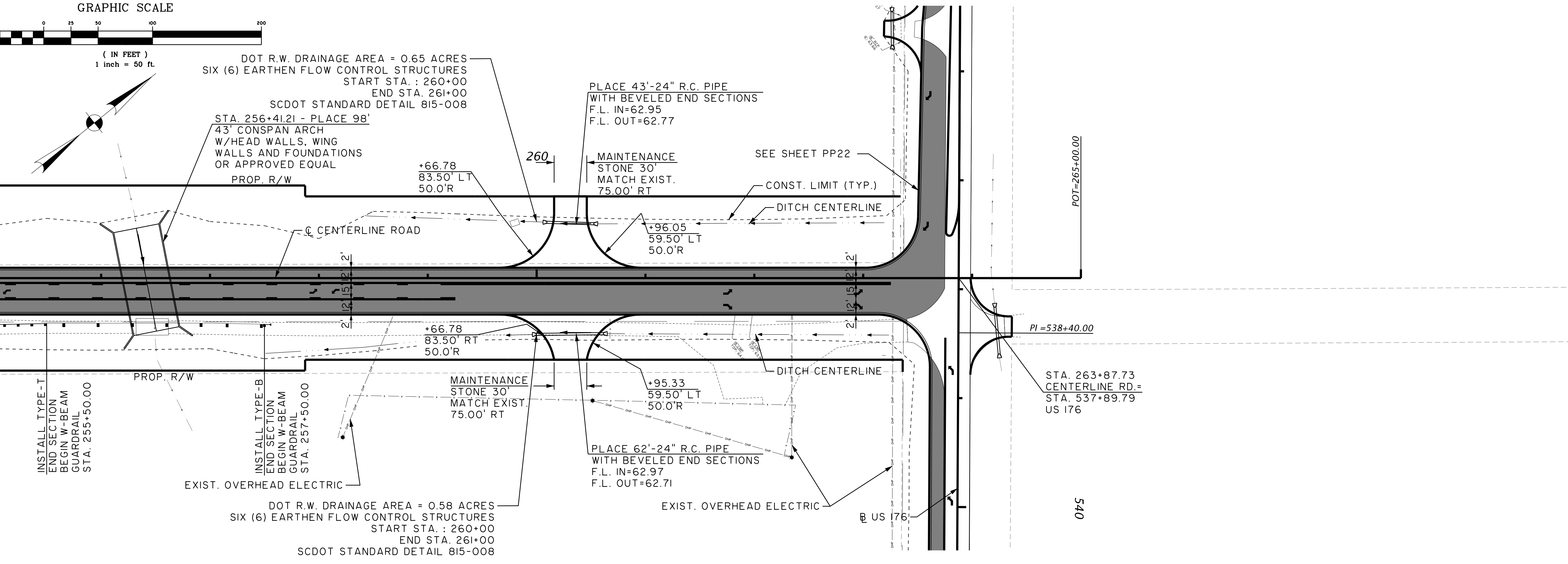
BERKELEY COUNTY
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PP18



STA. 255+00 MATCH LINE SHEET PP18



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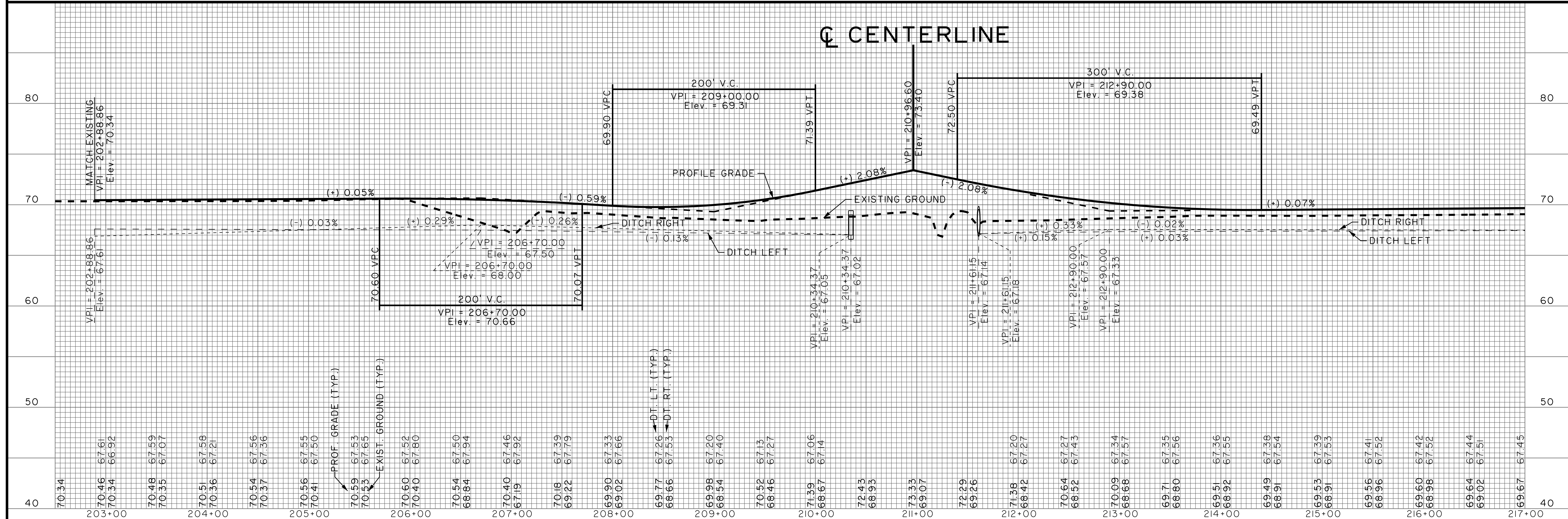
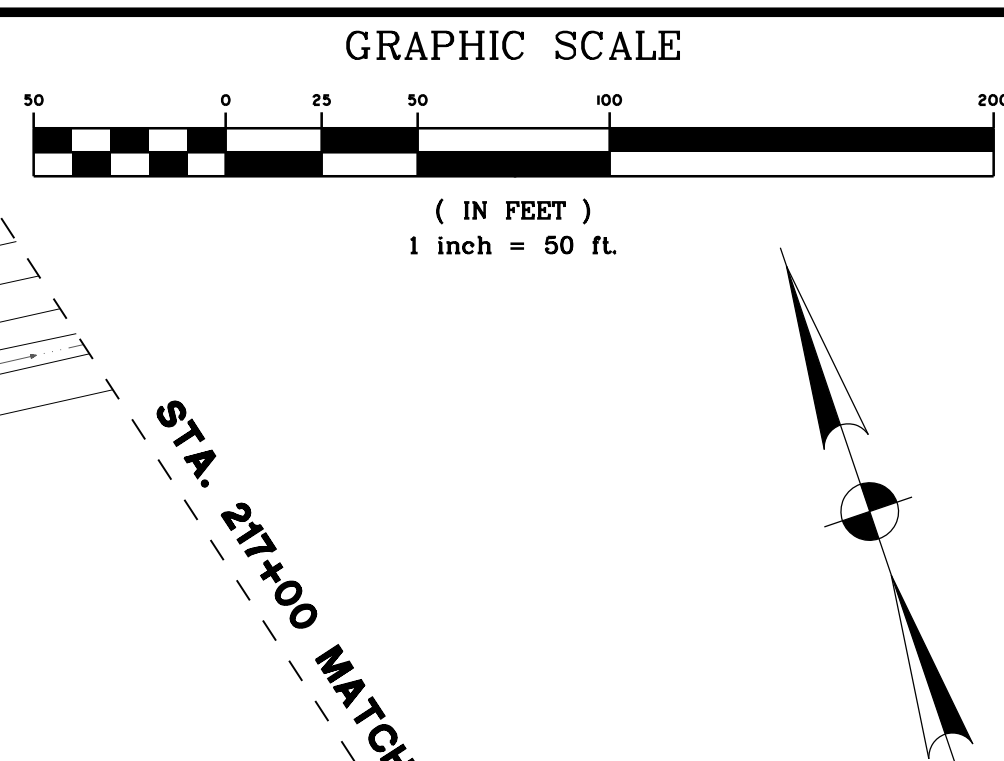
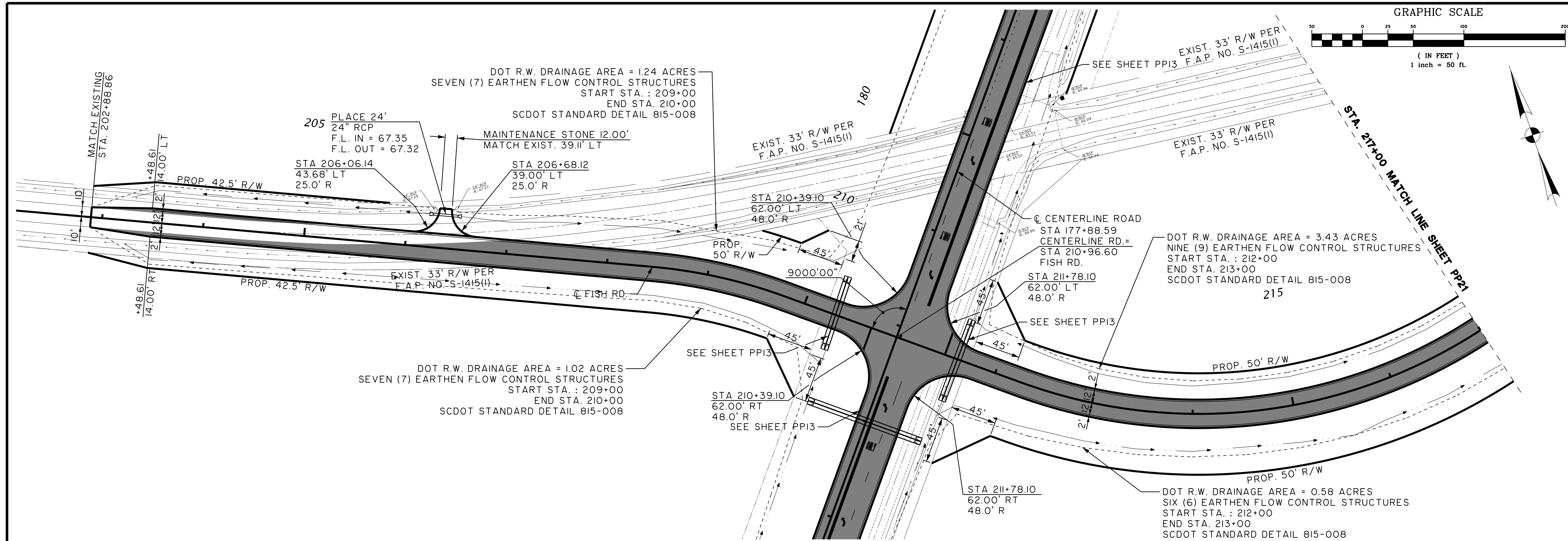
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PP19



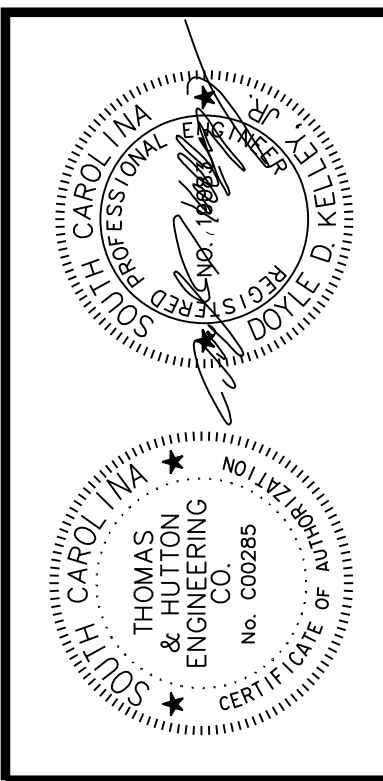
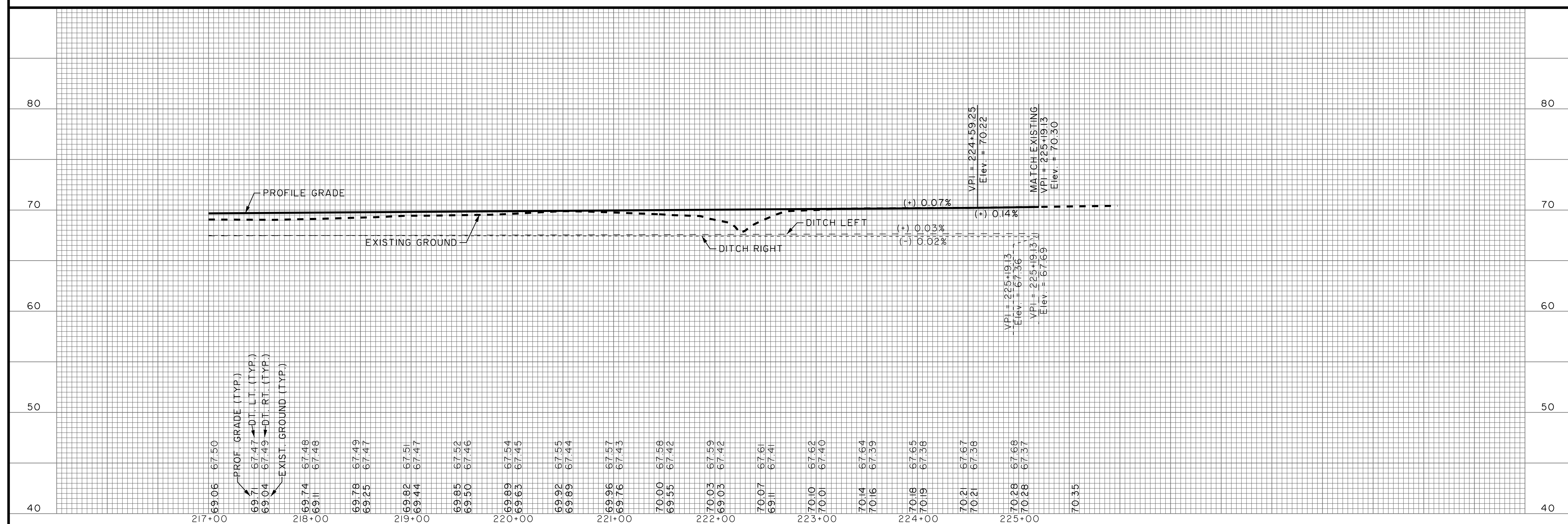
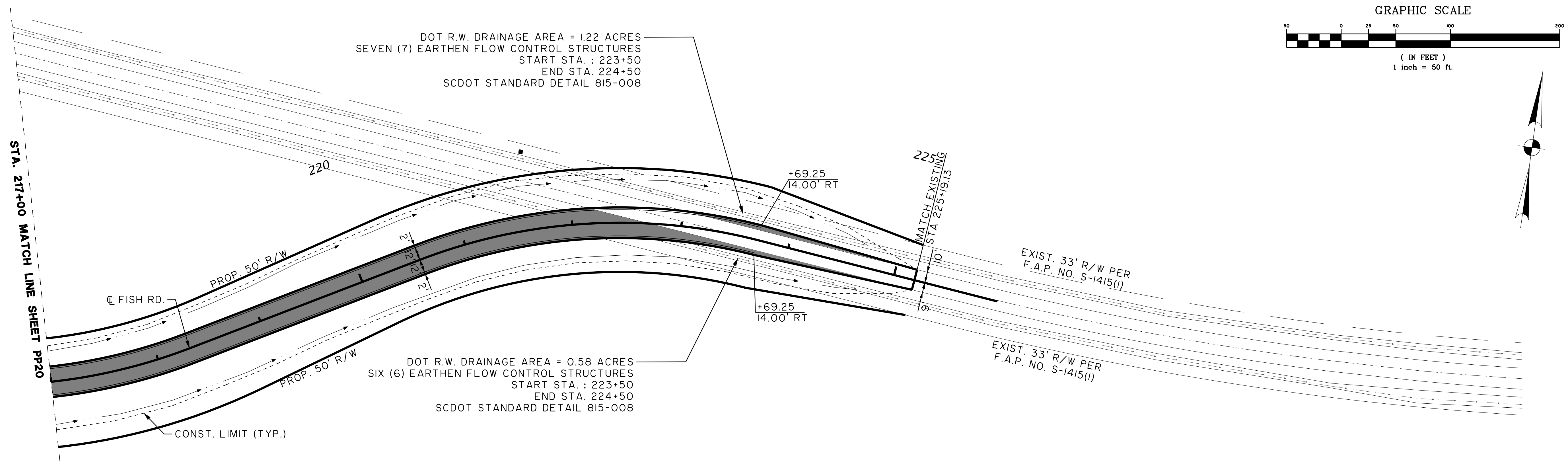
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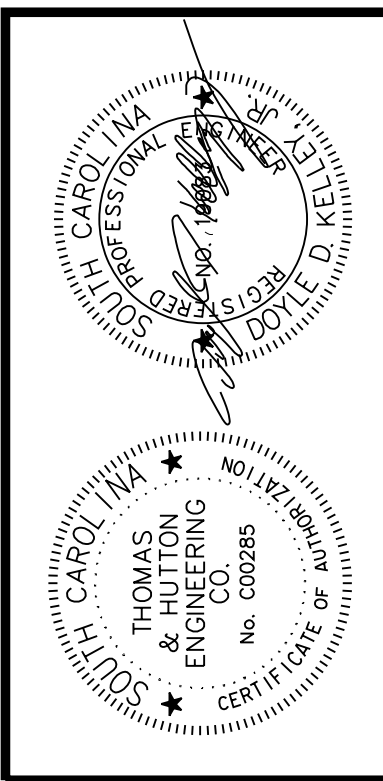
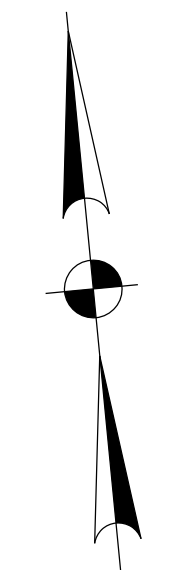
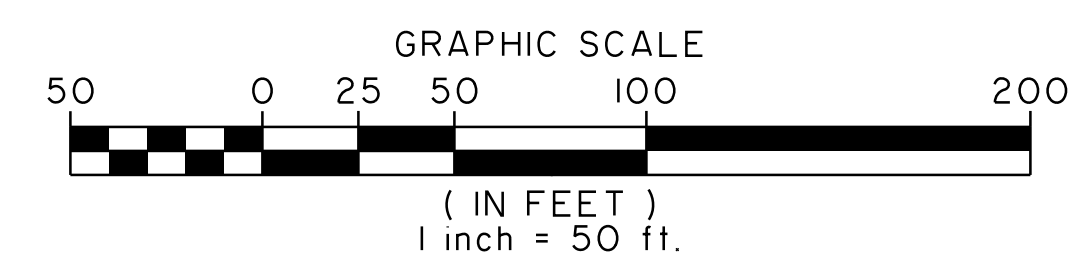
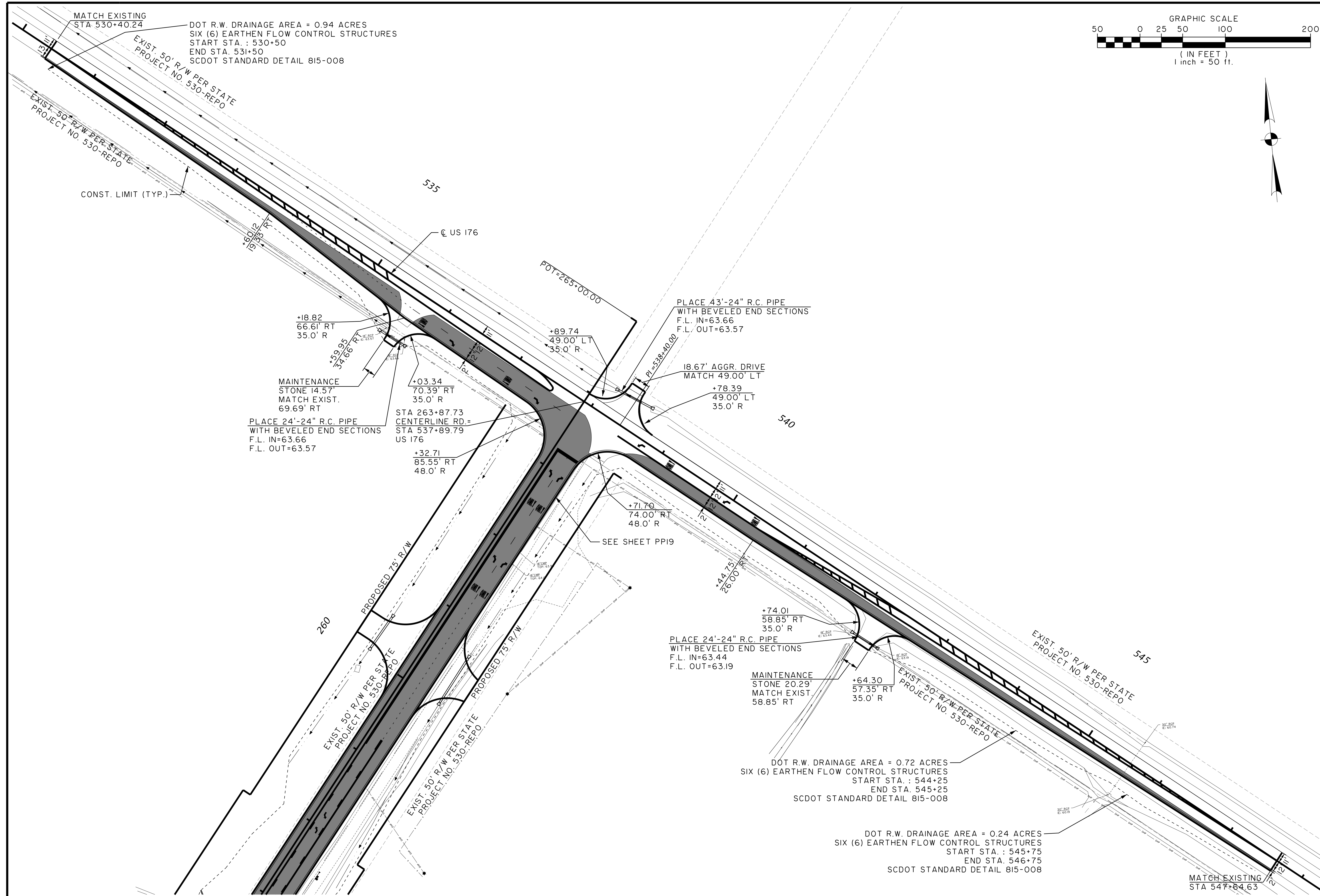
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US 176

PLAN

JOB NO: J-25644.1005
DATE:
DRAWN:
DESIGNED:
REVIEWED:
APPROVED:
SCALE: AS NOTED

PP22

STAGING PHASE IA GENERAL NOTES:

1. CONSTRUCT CENTERLINE ROAD INCLUDING GRADING, DRAINAGE AND PAVING UP TO THE FIRST LIFT OF SURFACE COURSE (EXCEPT FISH ROAD).
2. CONSTRUCT NEW ALIGNMENT OF FISH ROAD UP TO THE FIRST LIFT OF SURFACE WHILE TRAFFIC REMAINS ON EXISTING LOCATION.
3. COMPLETE US 176 WORK.

GENERAL NOTES:

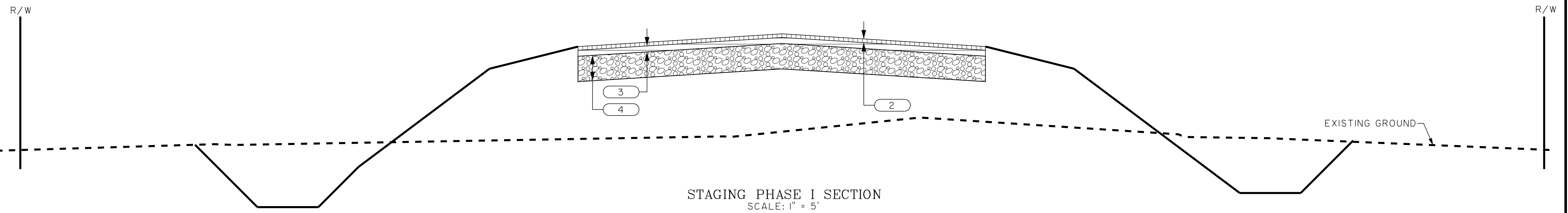
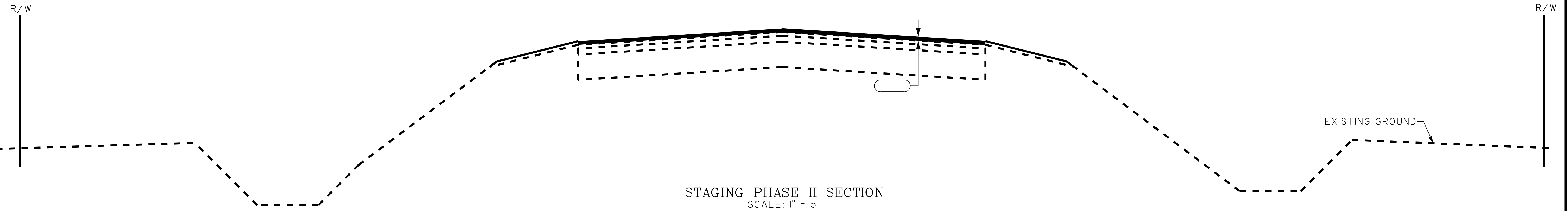
1. ANY WORK REQUIRING A TRAFFIC DISRUPTION OR LANE CLOSURE ON US 176 OR S-309 FISH RD WILL BE PERFORMED DURING DAYLIGHT HOURS BETWEEN 9:00 AM AND 3:00 PM. ANY CLOSURE WILL REQUIRE NOTIFYING SCDOT AND ALL REQUIRED MEDIA OUTLETS AND EMERGENCY AGENCIES A MINIMUM OF ONE WEEK PRIOR TO THE IMPLEMENTATION OF THE CLOSURE AND FOLLOW SCDOT STANDARD DRAWING 610-005-00.
2. ANY WORK REQUIRING A SHOULDER CLOSURE IS TO BE DONE USING SCDOT STANDARD DRAWING 610-205-00 FOR SHOULDER CLOSURE. ALL SHOULDER CLOSURE WORK IS TO BE DONE DURING DAYLIGHT HOURS BETWEEN 9:00 AM TO 3:00 PM.

STAGING PHASE IB GENERAL NOTES:

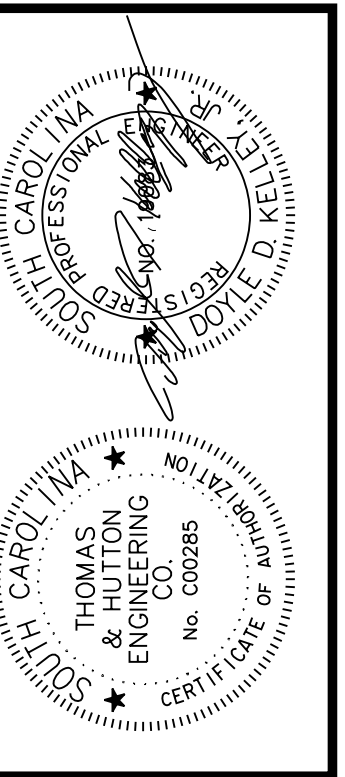
1. SWITCH TRAFFIC TO NEW ALIGNMENT OF FISH ROAD.
2. REMOVE ABANDONED FISH ROAD PAVEMENT.
3. COMPLETE CENTERLINE ROAD AT INTERSECTION OF ABANDONED FISH ROAD.
4. OPEN CENTERLINE ROAD TO TRAFFIC.

STAGING PHASE II GENERAL NOTES:

1. REPAIR DAMAGED ASPHALT.
2. COMPLETE FINAL SURFACE OVERLAY ON CENTERLINE ROAD AND FISH ROAD.



1		HOT MIX ASPHALT SURFACE COURSE (TYPE B) (150 PSY)
2		HOT MIX ASPHALT SURFACE COURSE (TYPE B) (150 PSY)
3		HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE B) (250 PSY)
4		MARINE LIMESTONE BASE COURSE (10'')



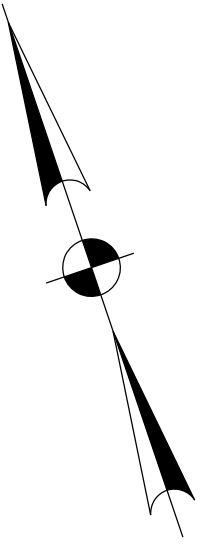
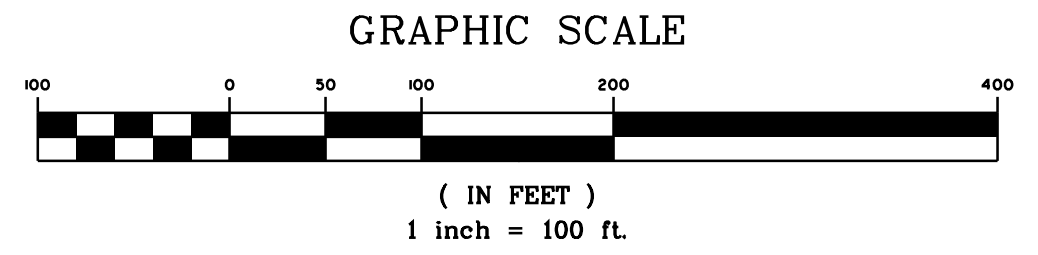
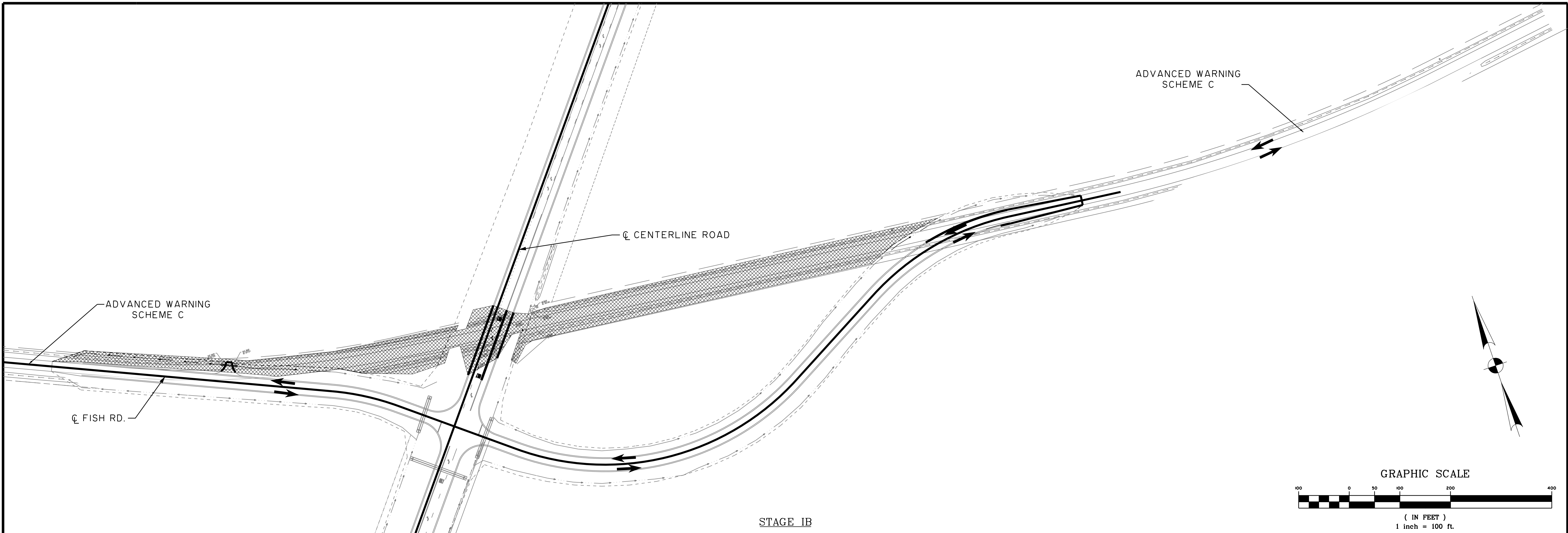
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BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
CENTERLINE ROAD
STAGING SECTIONS

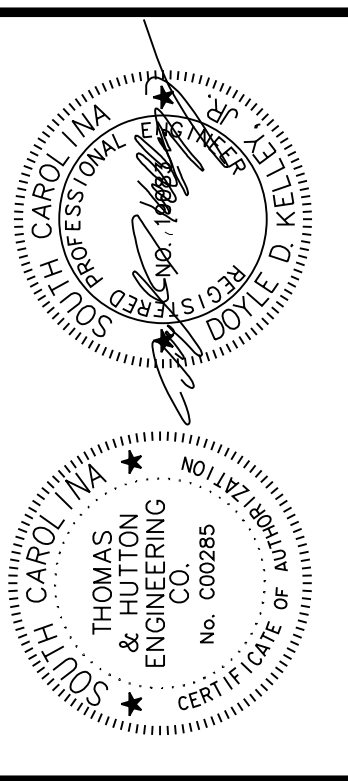
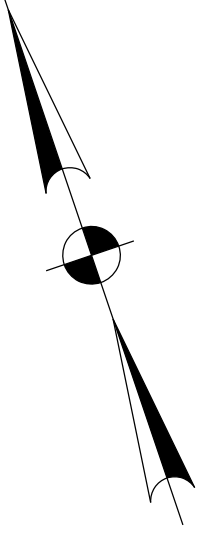
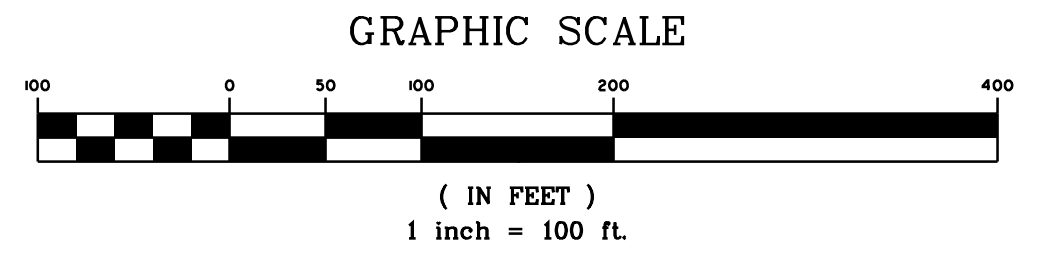
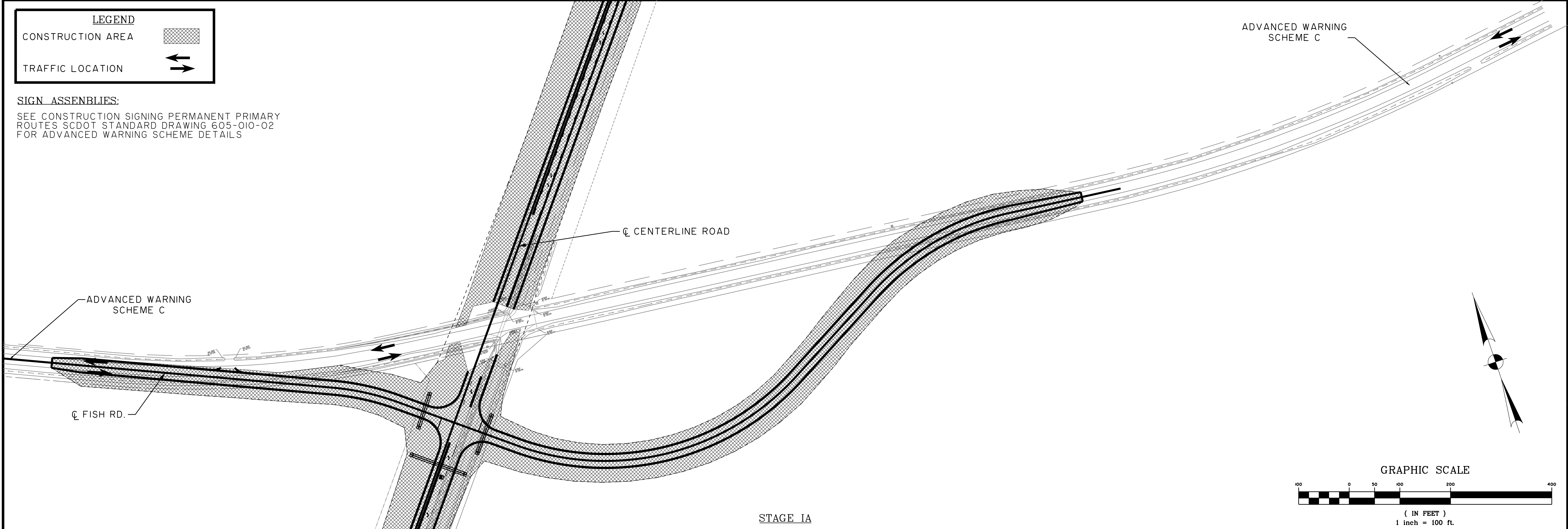
JOB NO: J-25644.1005
 DATE: _____
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 APPROVED: _____
 SCALE: AS NOTED

ST01



LEGEND	
CONSTRUCTION AREA	
TRAFFIC LOCATION	

SIGN ASSEMBLIES:
 SEE CONSTRUCTION SIGNING PERMANENT PRIMARY ROUTES SCDOT STANDARD DRAWING 605-010-02 FOR ADVANCED WARNING SCHEME DETAILS



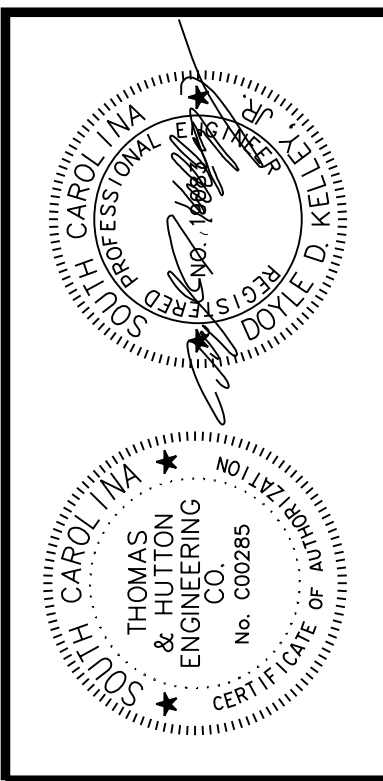
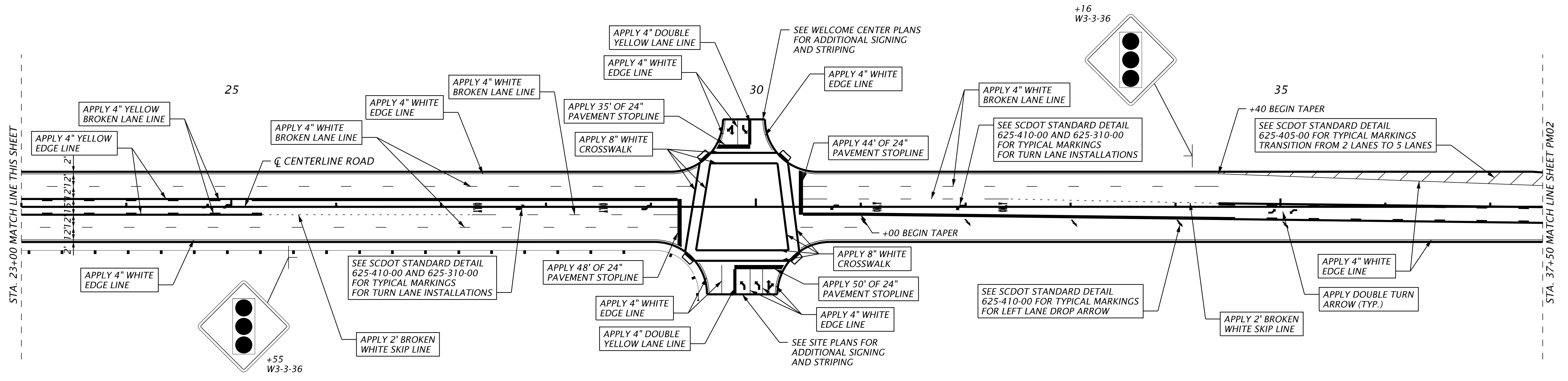
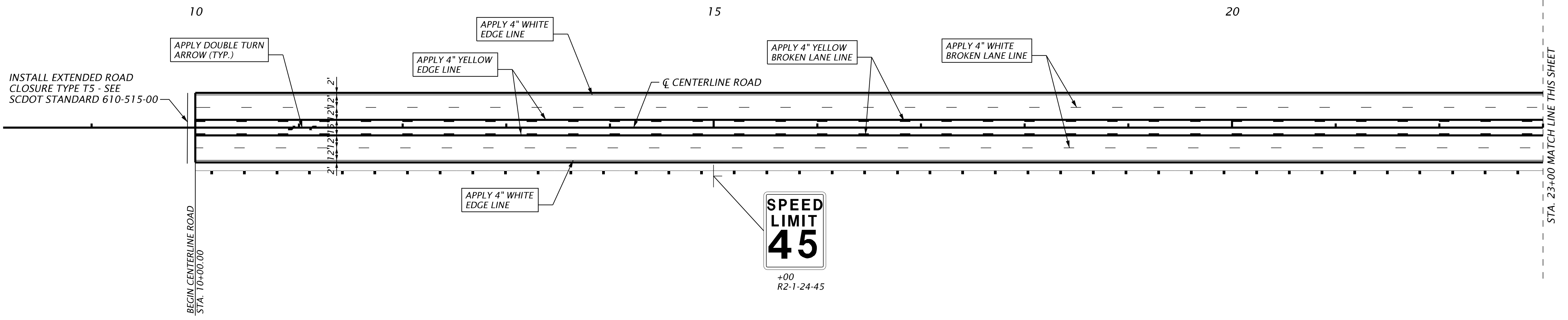
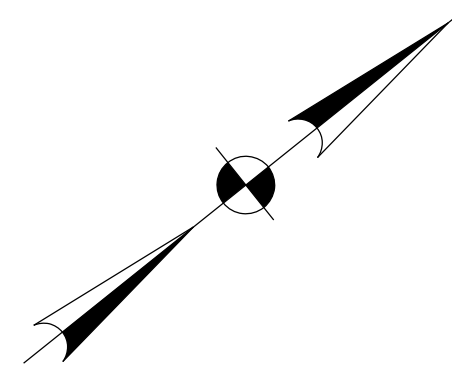
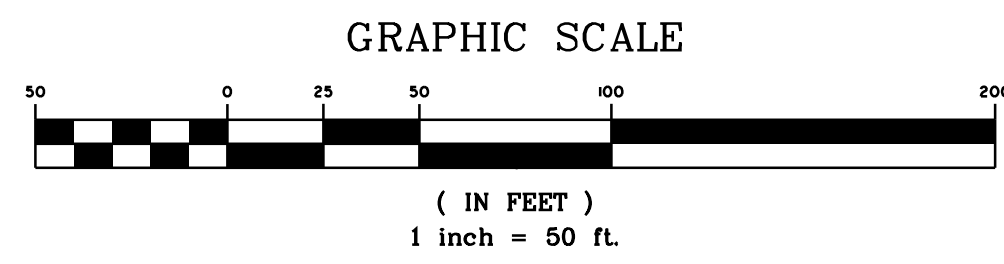
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FISH ROAD
 STAGING PLAN

JOB NO: J-25644.1005
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ST02



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CENTERLINE ROAD
 SIGNING AND MARKING PLAN

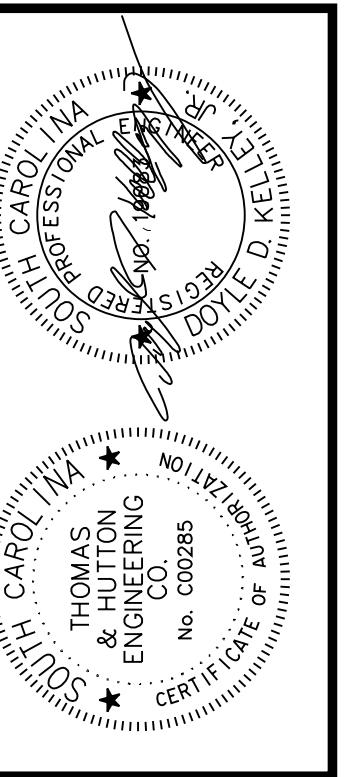
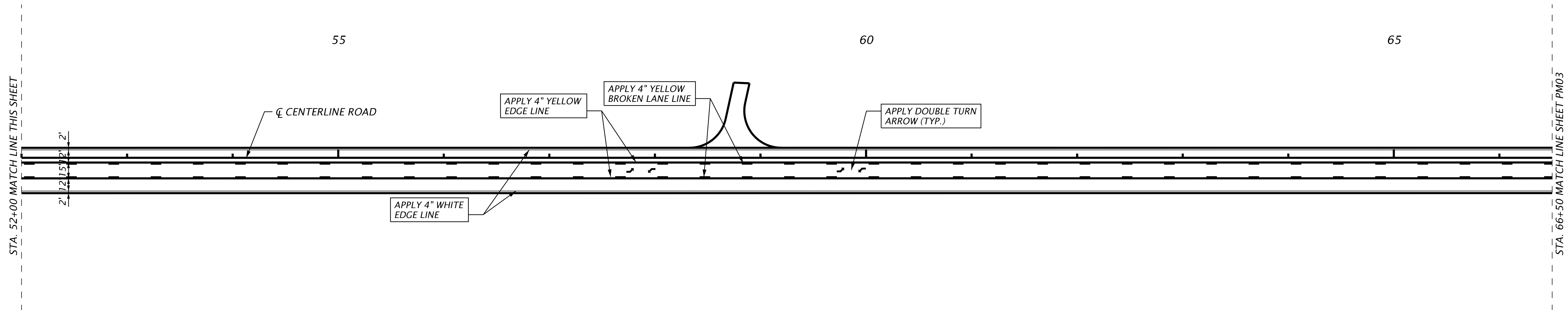
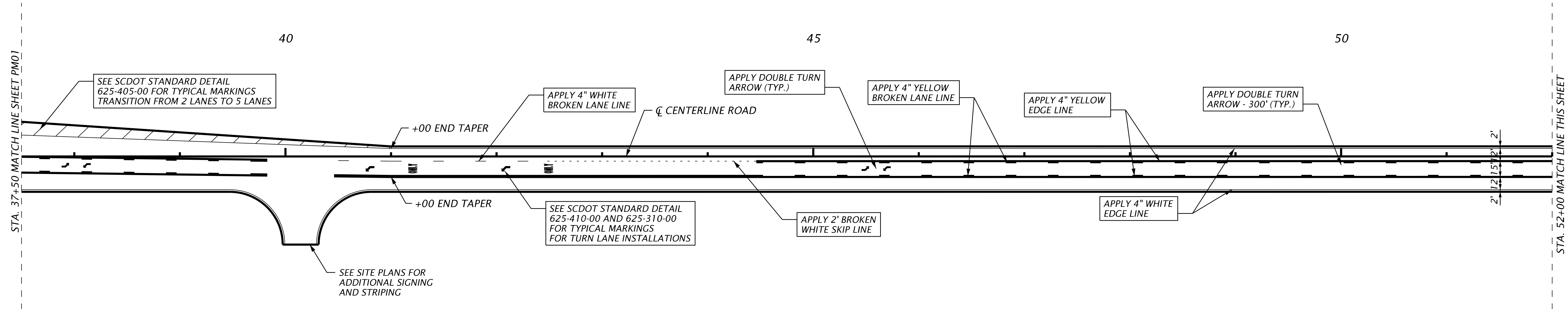
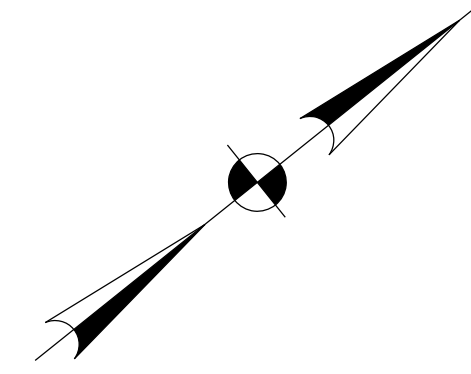
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PM01

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



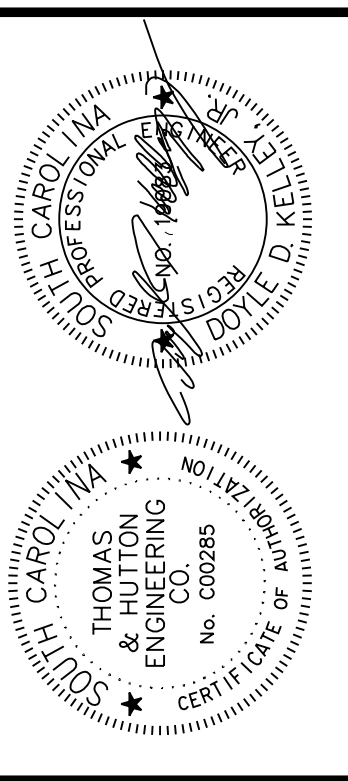
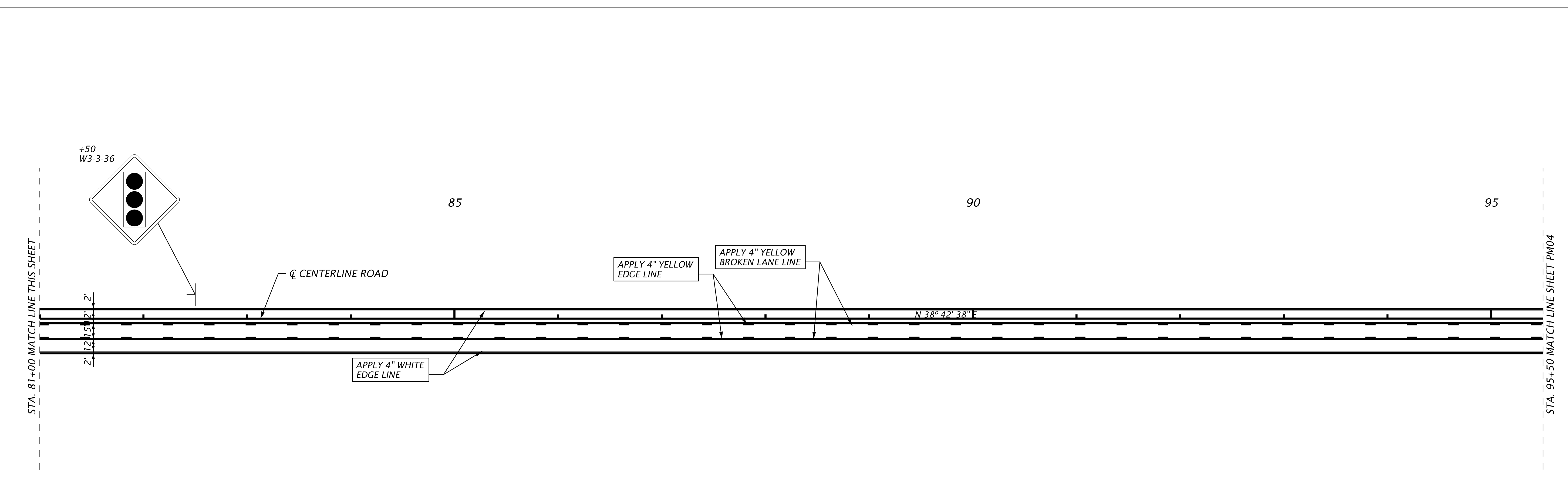
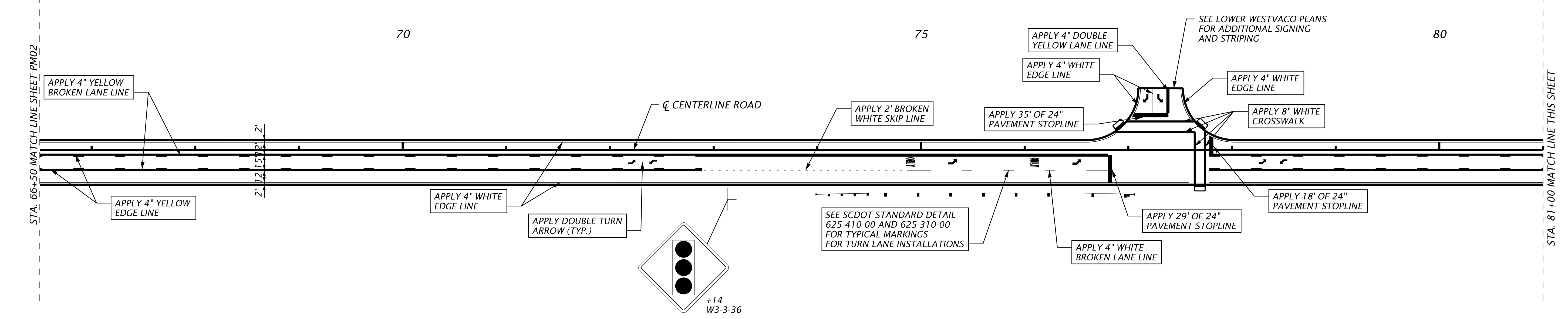
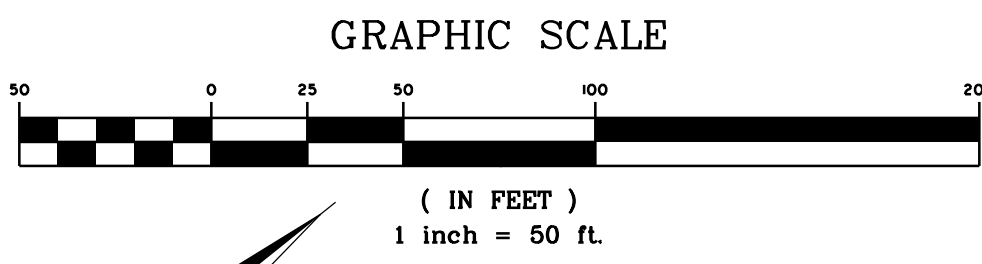
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PM02



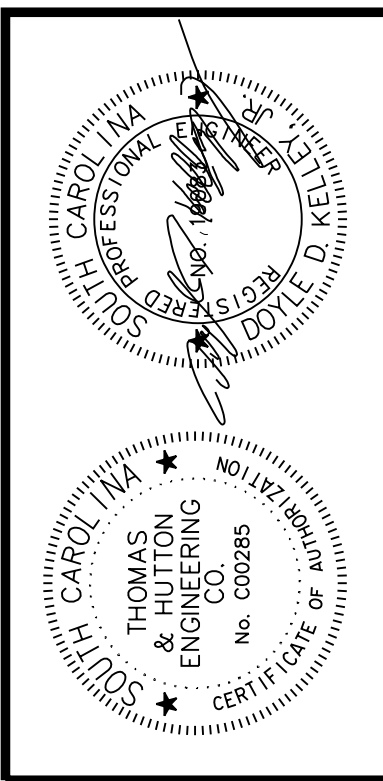
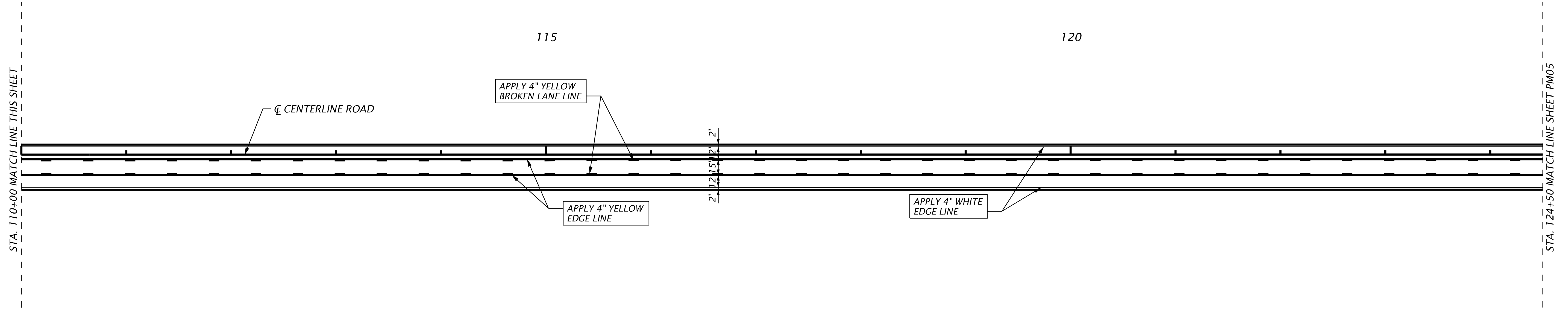
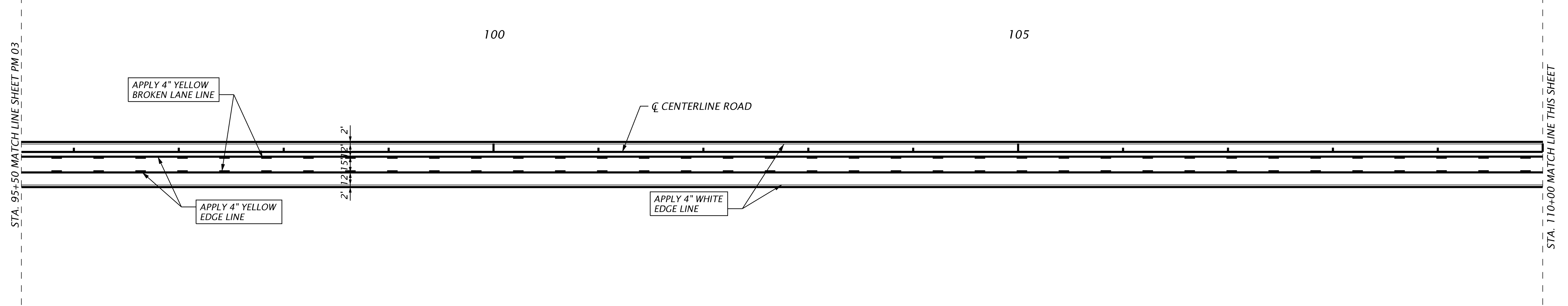
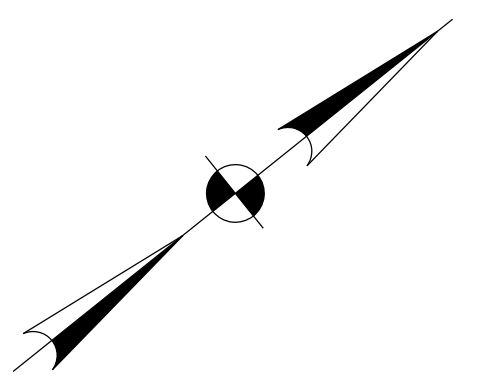
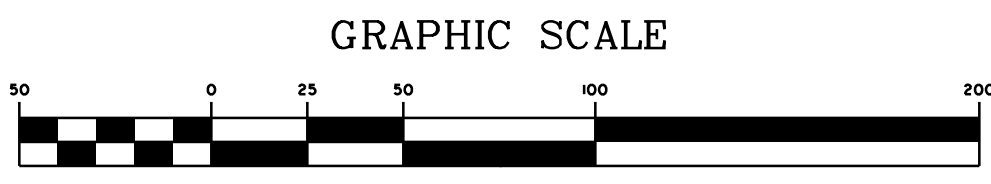
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PM03



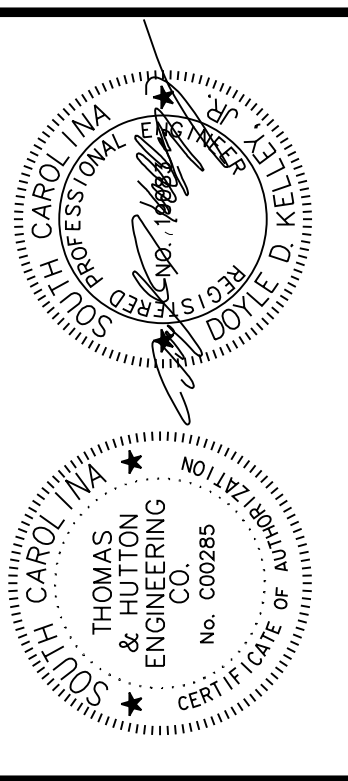
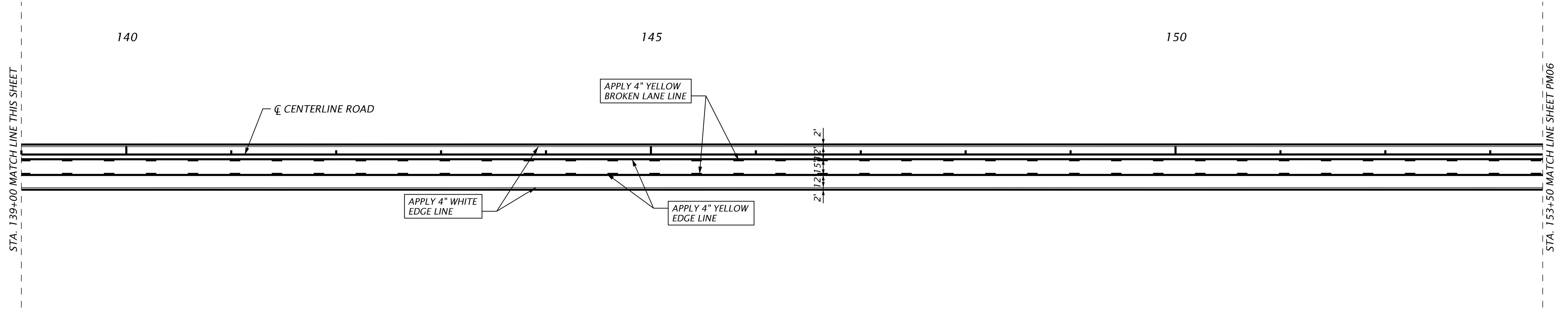
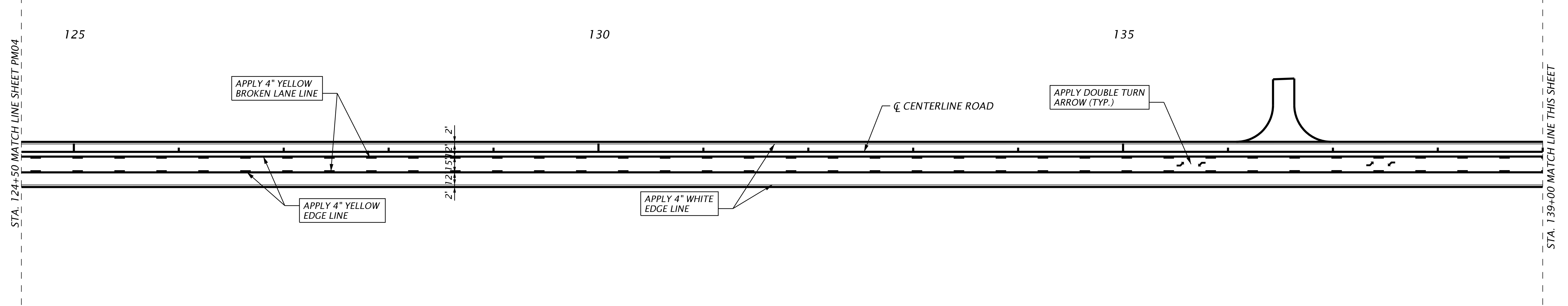
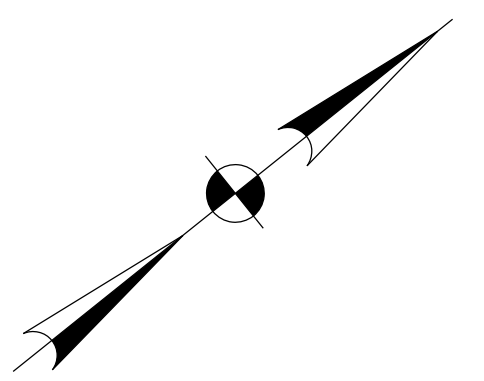
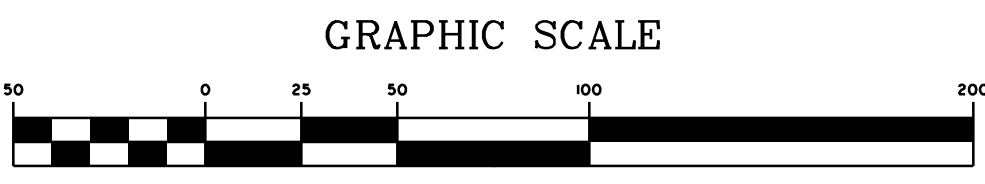
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CENTERLINE ROAD
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PM04



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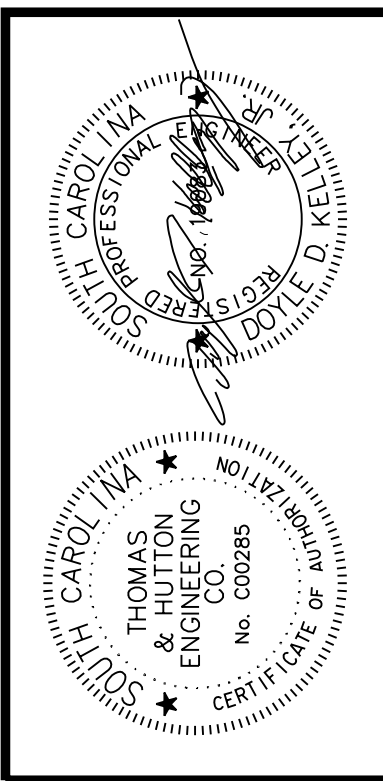
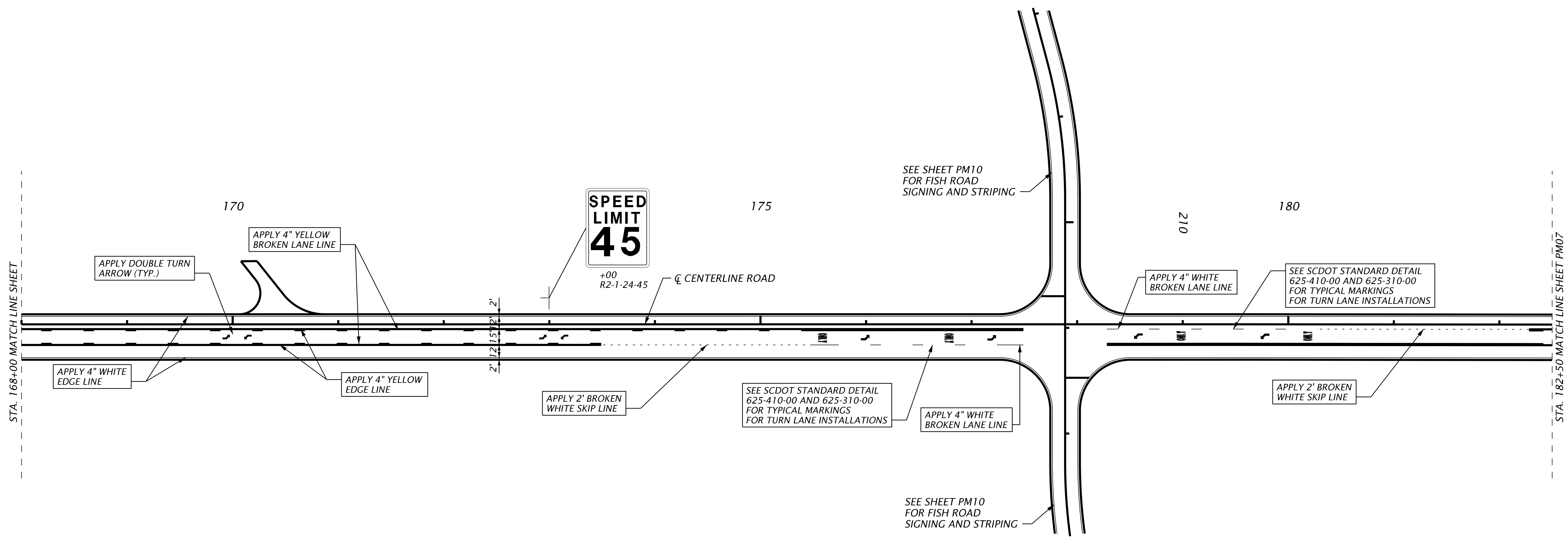
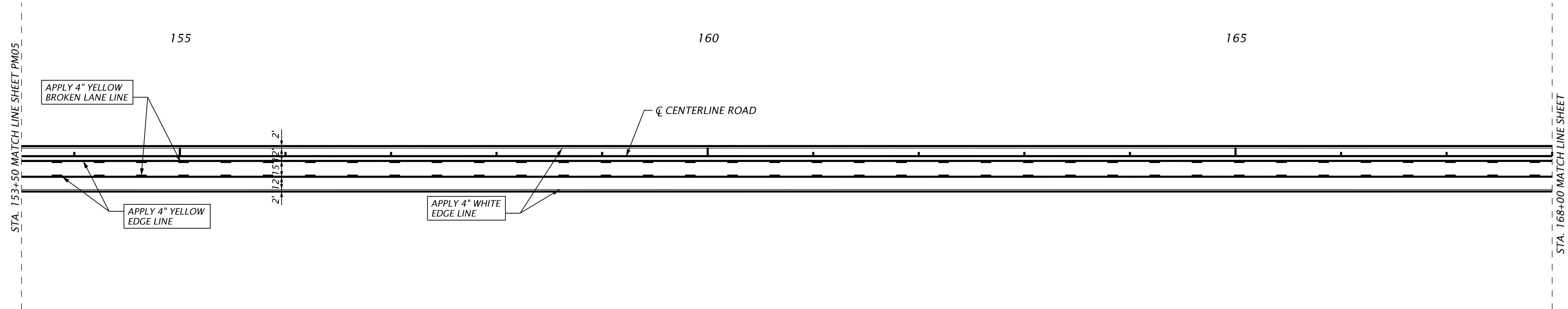
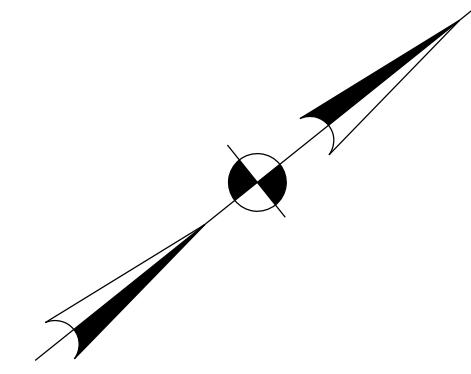
JOB NO: J-25644.005
 DATE: _____
 DRAWN: _____
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 APPROVED: _____
 SCALE: AS NOTED

PM05

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



NO.	REVISIONS	BY	DATE

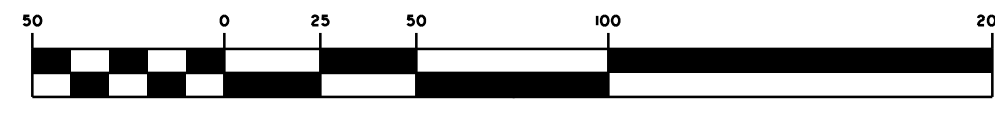
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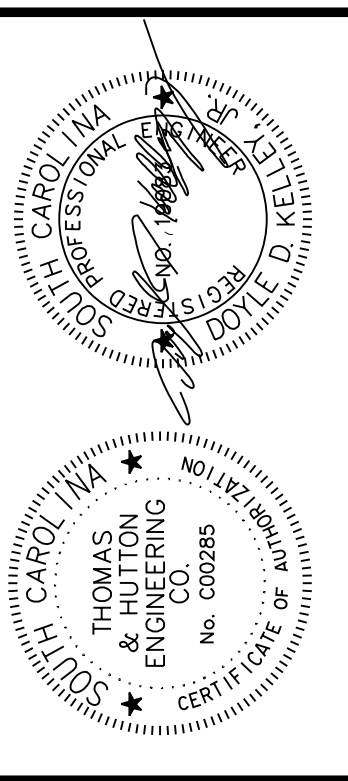
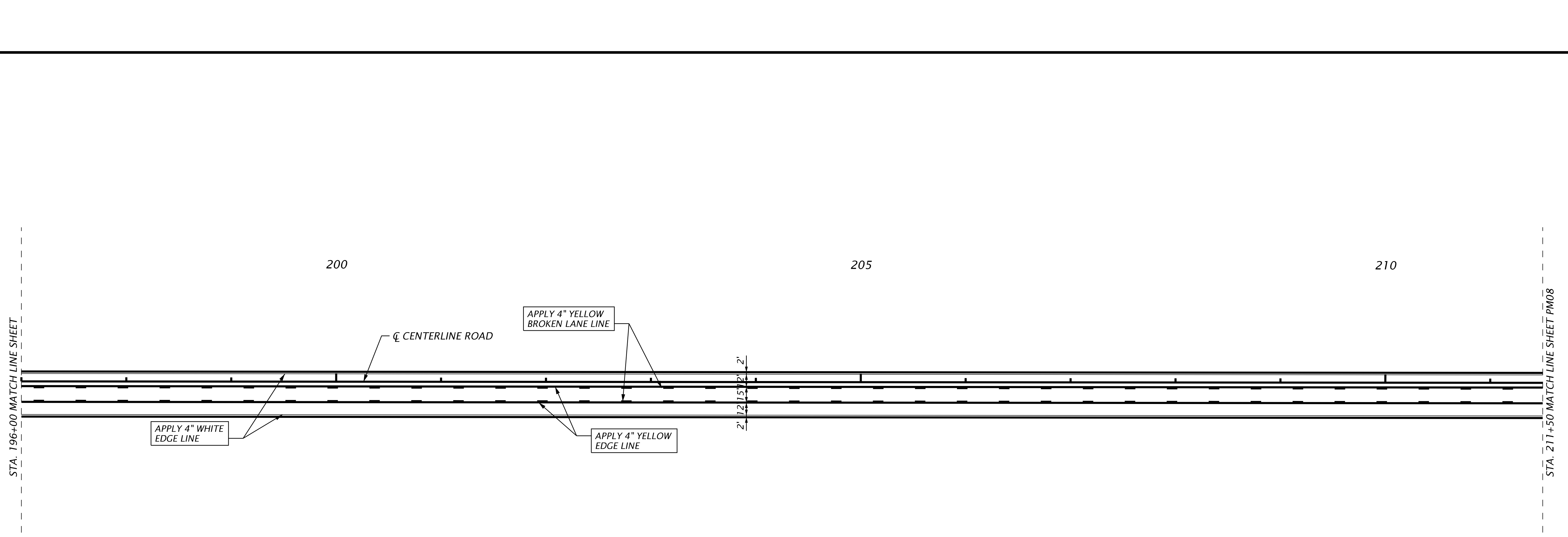
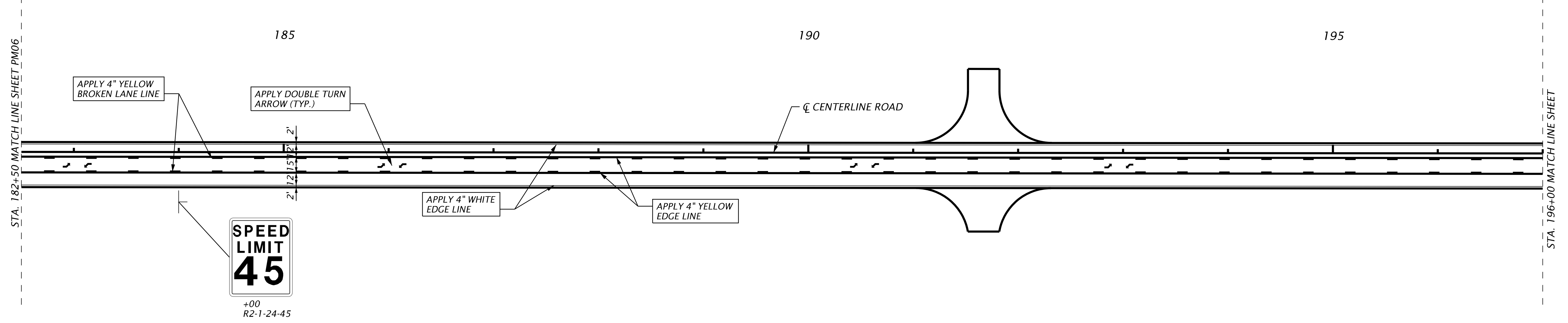
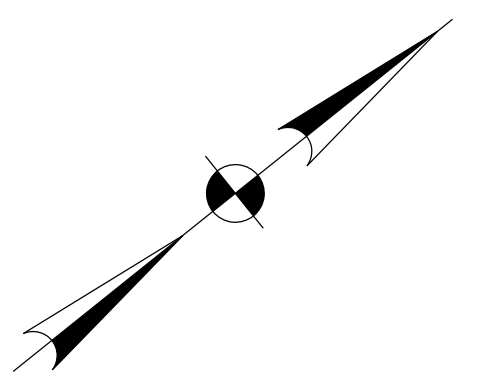
JOB NO: J-25644.0005
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PM06

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



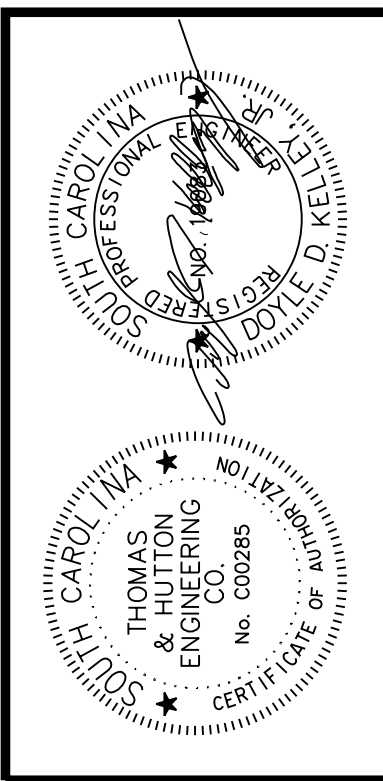
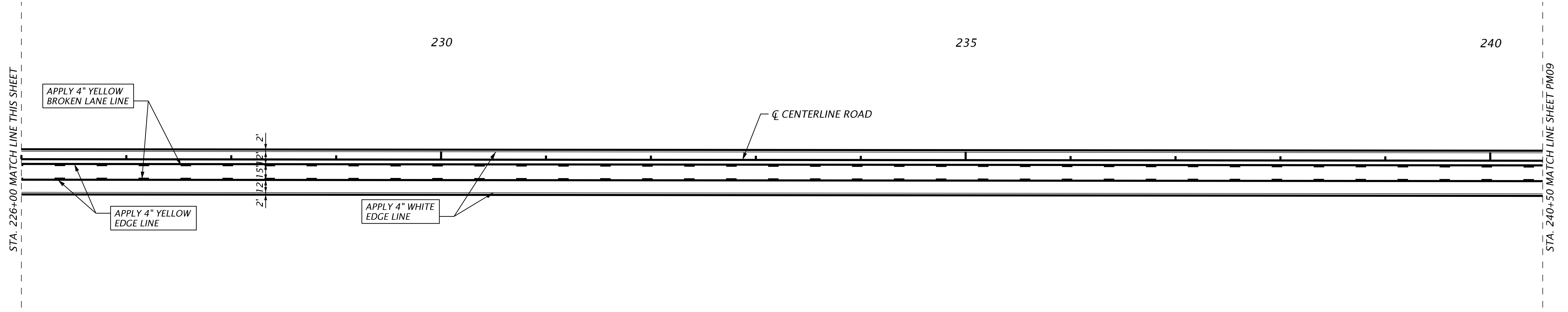
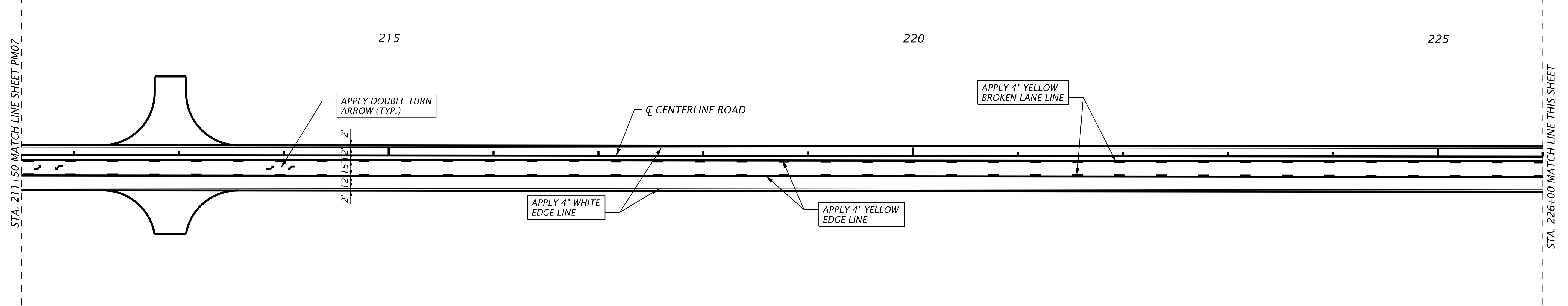
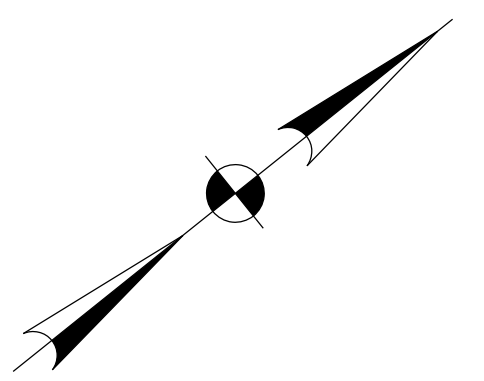
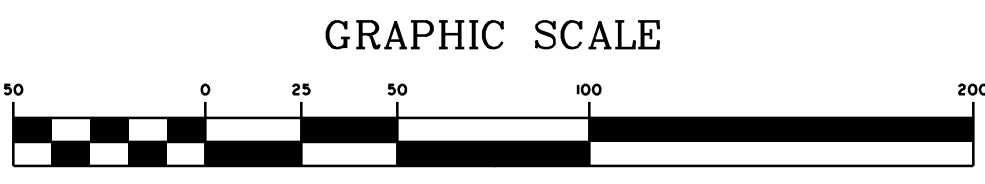
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CENTERLINE ROAD
SIGNING AND MARKING PLAN

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PM07



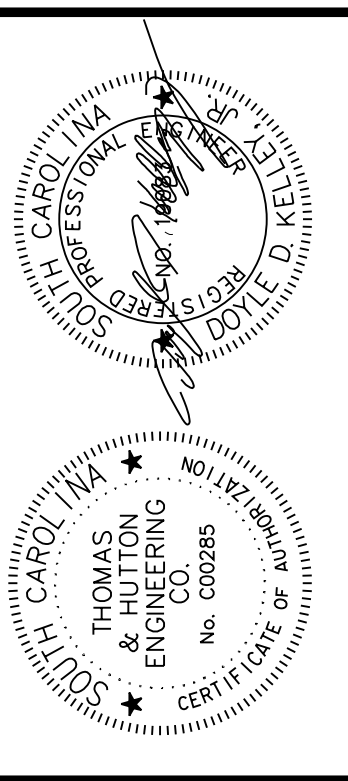
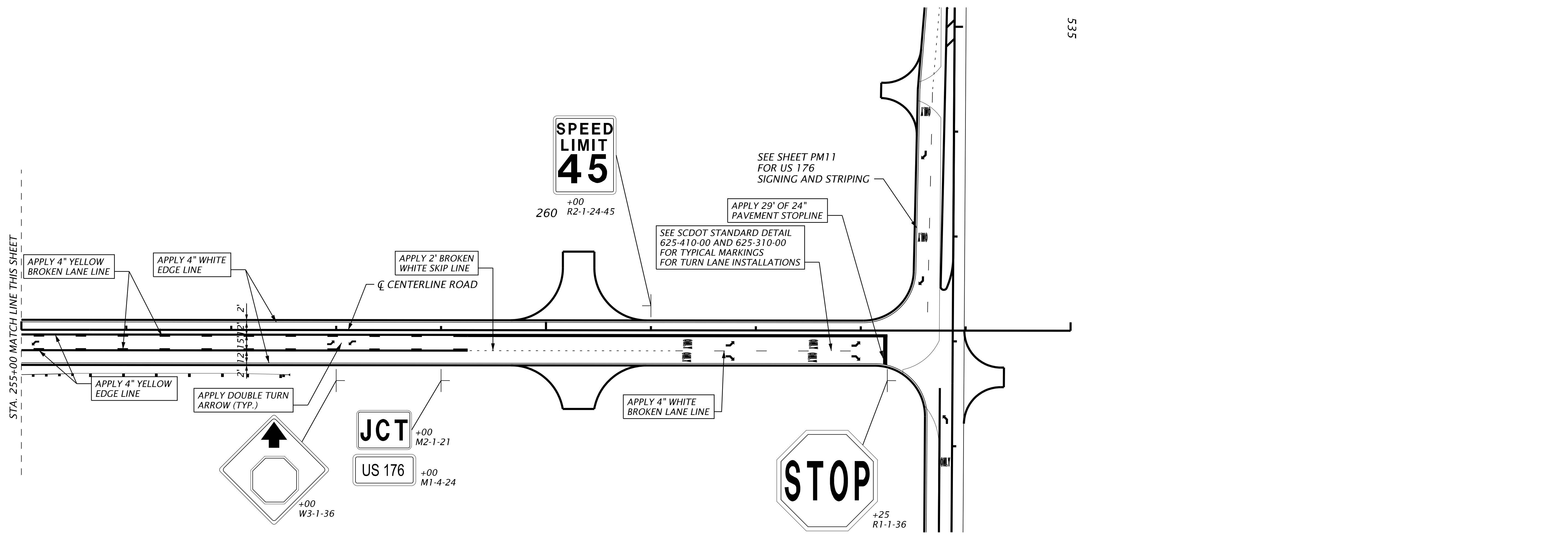
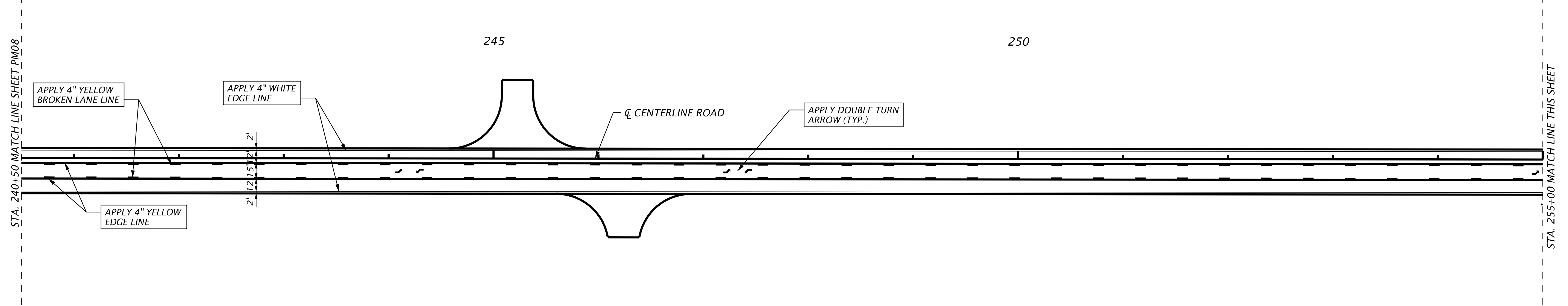
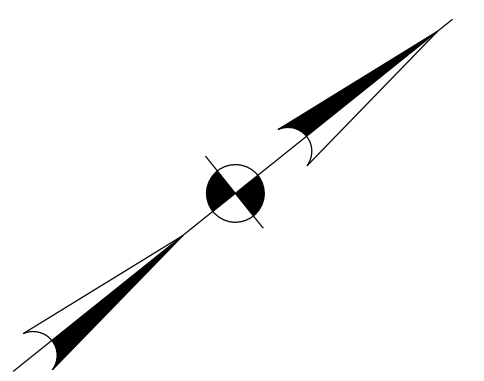
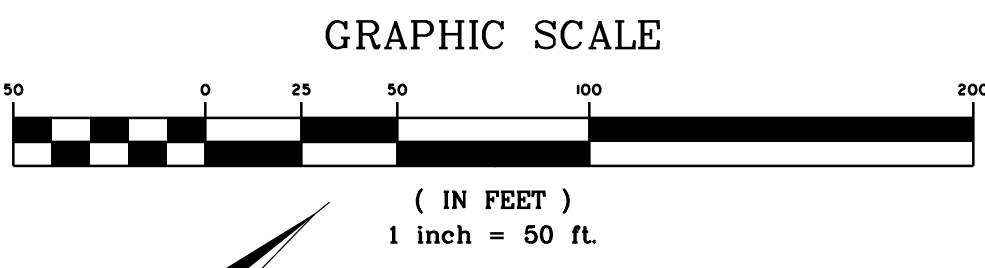
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CENTERLINE ROAD
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PM08



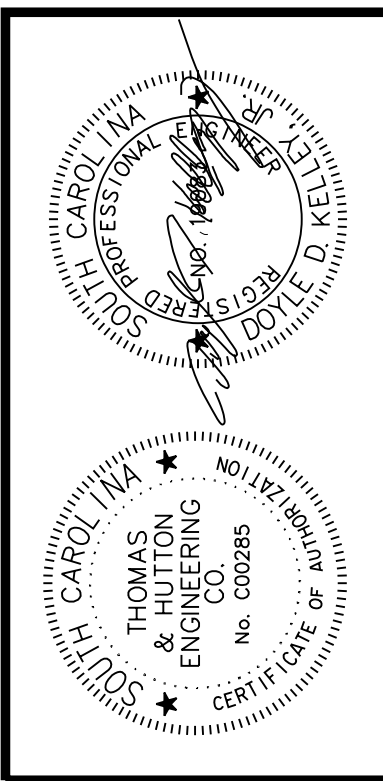
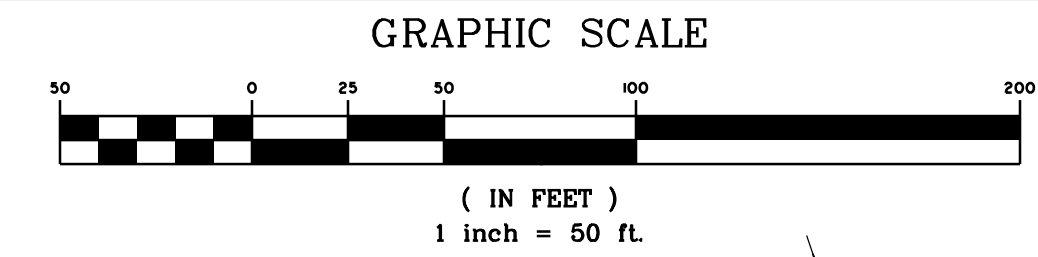
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CENTERLINE ROAD
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PM09



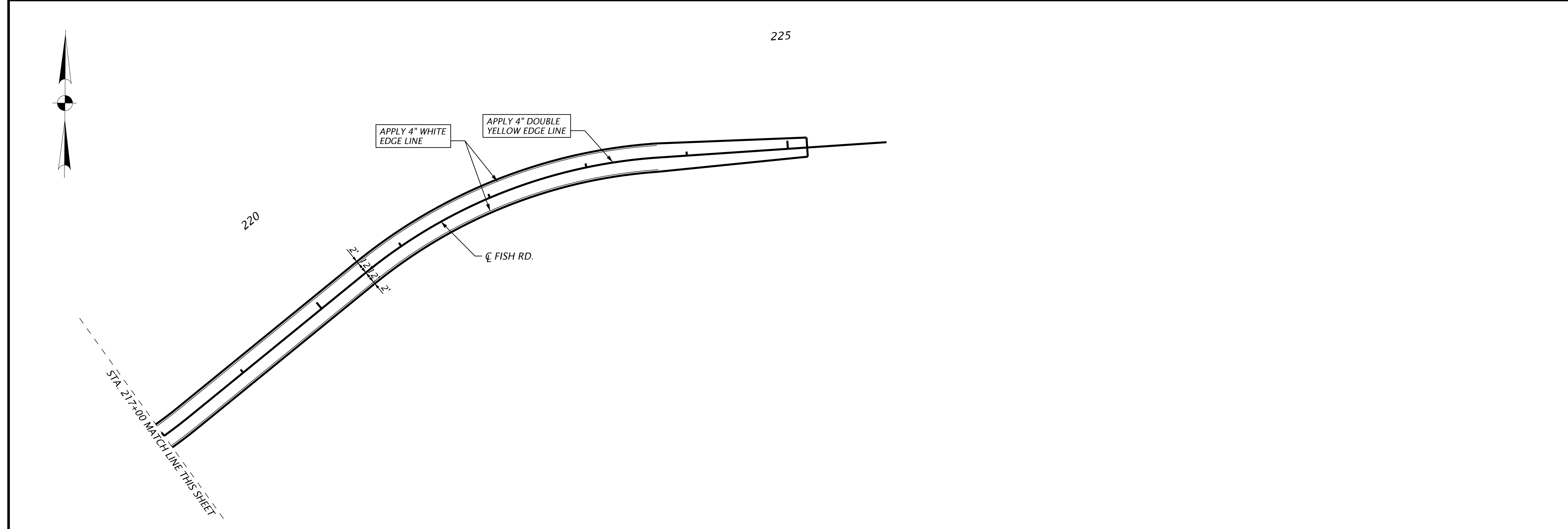
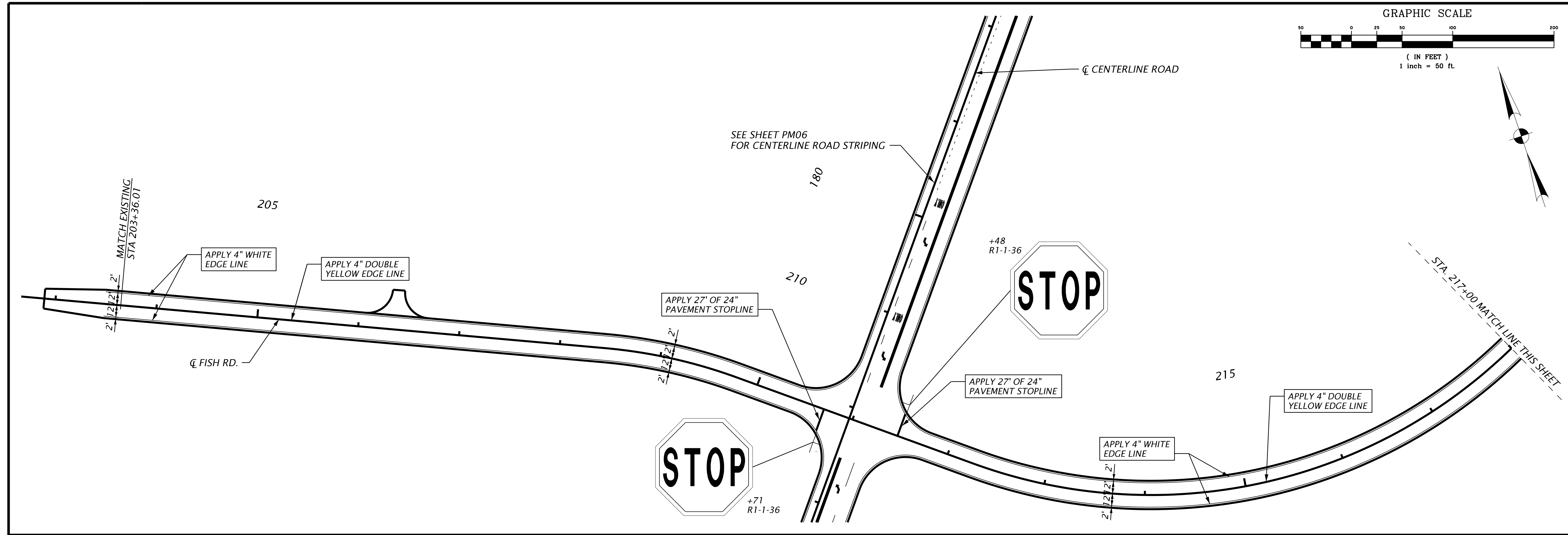
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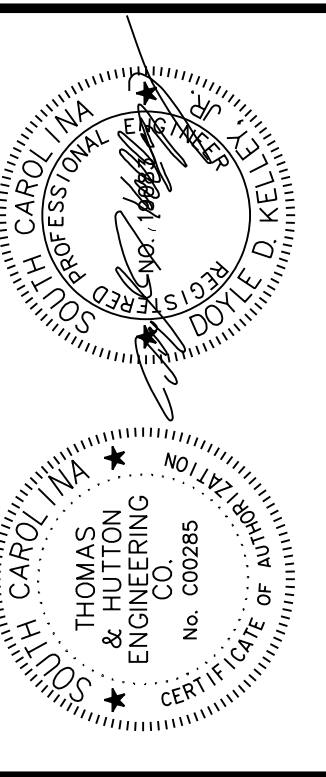
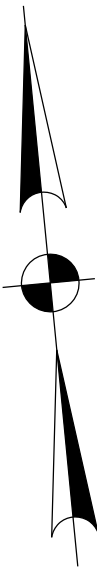
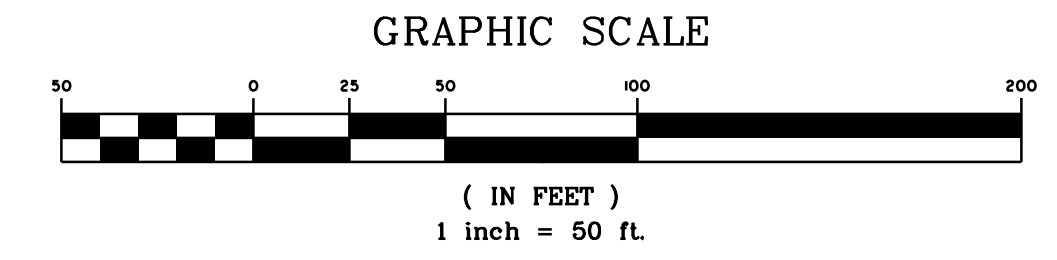
BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
FISH ROAD
 SIGNING AND PAVEMENT MARKING

JOB NO: J-25644.0005
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PM10



MATCH EXISTING
STA 530+40.24



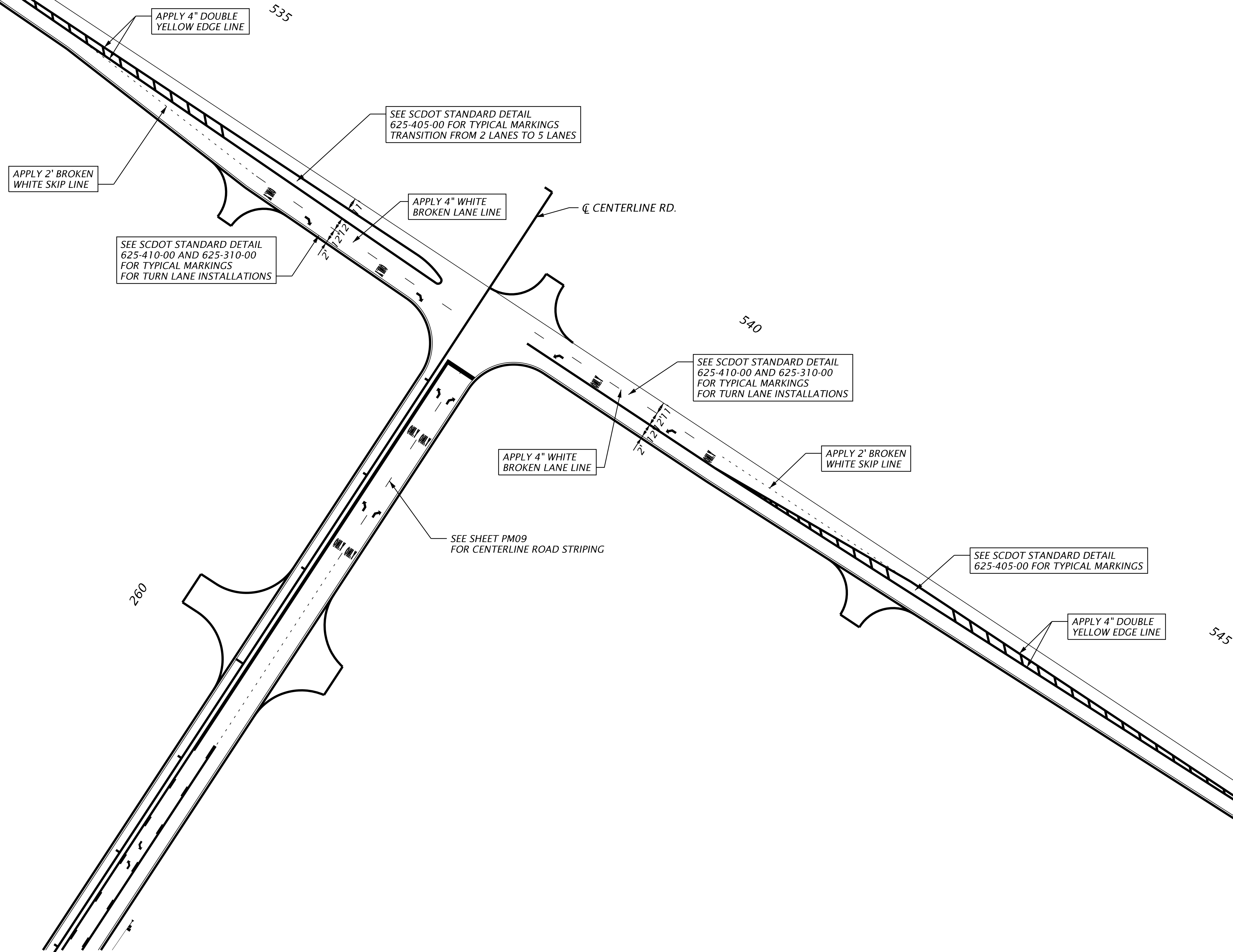
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BERKELEY COUNTY
BERKELEY COUNTY, S.C.
US 176
SIGNING AND MARKING

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PM11



MATCH EXISTING
STA 547+64.63

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD 2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT, AND POLE / BASE MOUNTED 3365 / 332A CABINET.

10 MODEL 222, (2)-CHANNEL VEHICLE DETECTOR UNITS

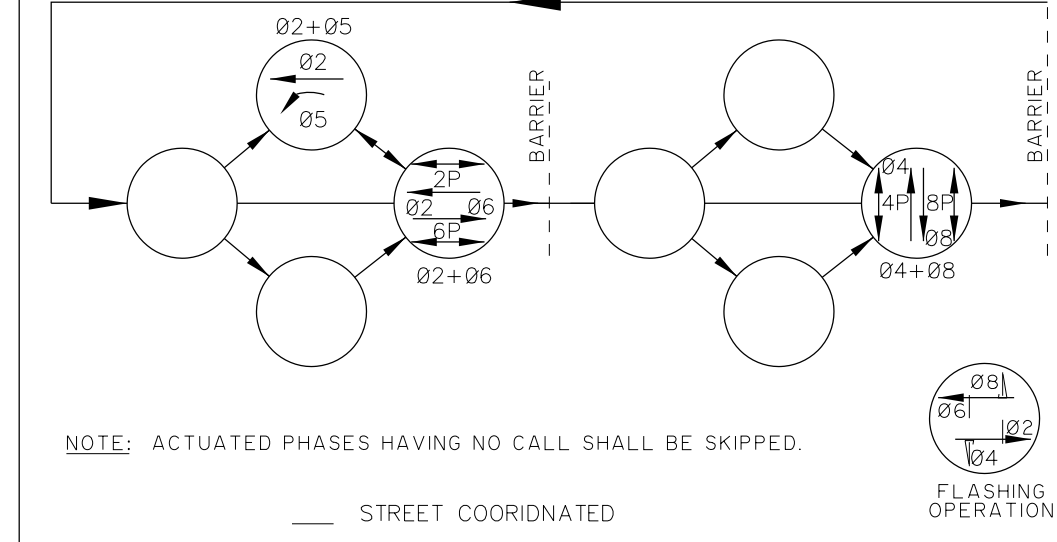
PEDESTRIAN SIGNALS: EXT. PROP. W/ACT. & SIGN

VEHICLE SIGNALS: EXT. PROP.

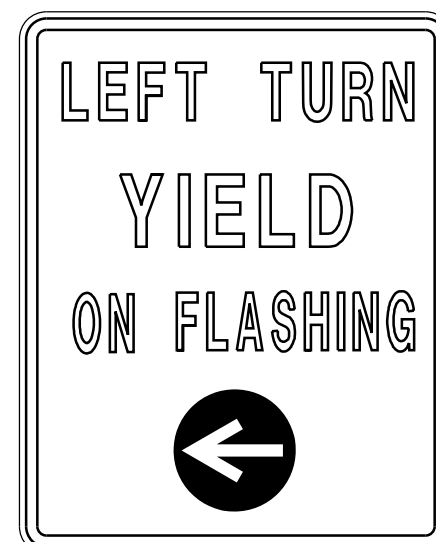
SIGNAL NUMBER	2	4	5,6F	6	8	2P,6P	4P,8P
LENS	R Y G	R Y G	←R ←Y ←G	R Y G	R Y G		
PHASE	2	4	5, OLC	6	8	2P, 6P	4P, 8P
SIZE	12"	12"	12"	12"	12"	16"	16"
QUANTITY	2	2	1	2	2	4	4

OLA= OLC= 05+06(FYA)
 OLB= OLD=
 METAL POLES AS NECESSARY: EXT. ● PROP. ● M ●
 WOOD POLES AS NECESSARY: EXT. ○ PROP. ○ W ○

NEMA PHASING



SIGN A



SIGN B



SIGNAL DISPLAY SEQUENCE CHART

R - RED
 ←R - RED ARROW
 Y - YELLOW
 ←Y - STEADY YELLOW ARROW
 ←FY - FLASHING YELLOW ARROW
 G - GREEN
 ←G - GREEN ARROW
 W-WALK **
 DW-DONT WALK

NOTE A: ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE OMITTED.
 NOTE B: WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART).
 * CONFLICTING PHASES REQUIRE A CLEARANCE INTERVAL.

** WHEN CALLED, DISPLAY SOLID 'WALKING PERSON' AND TIMES OUT WALK TIMING; THEN DISPLAYS FLASHING 'UPRAISED HAND' AND TIMES WALK CLEARANCE (DON'T WALK TIMING), THEN DISPLAYS A SOLID 'UPRAISED HAND'.

PHASE ON (A)	NON-CONFLICTING PHASE (B)	CONFLICTING PHASE*
1		
2	5, 2P, 6, 6P	4, 4P, 8, 8P
3		
4	8, 4P, 8P	2, 5, 6, 2P, 6P
5	2, 2P	4, 6, 8, 4P, 6P, 8P
6	2, 2P, 6P	4, 5, 8, 8P, 4P
7		
8	4, 4P, 8P	5, 2, 2P, 6, 6P

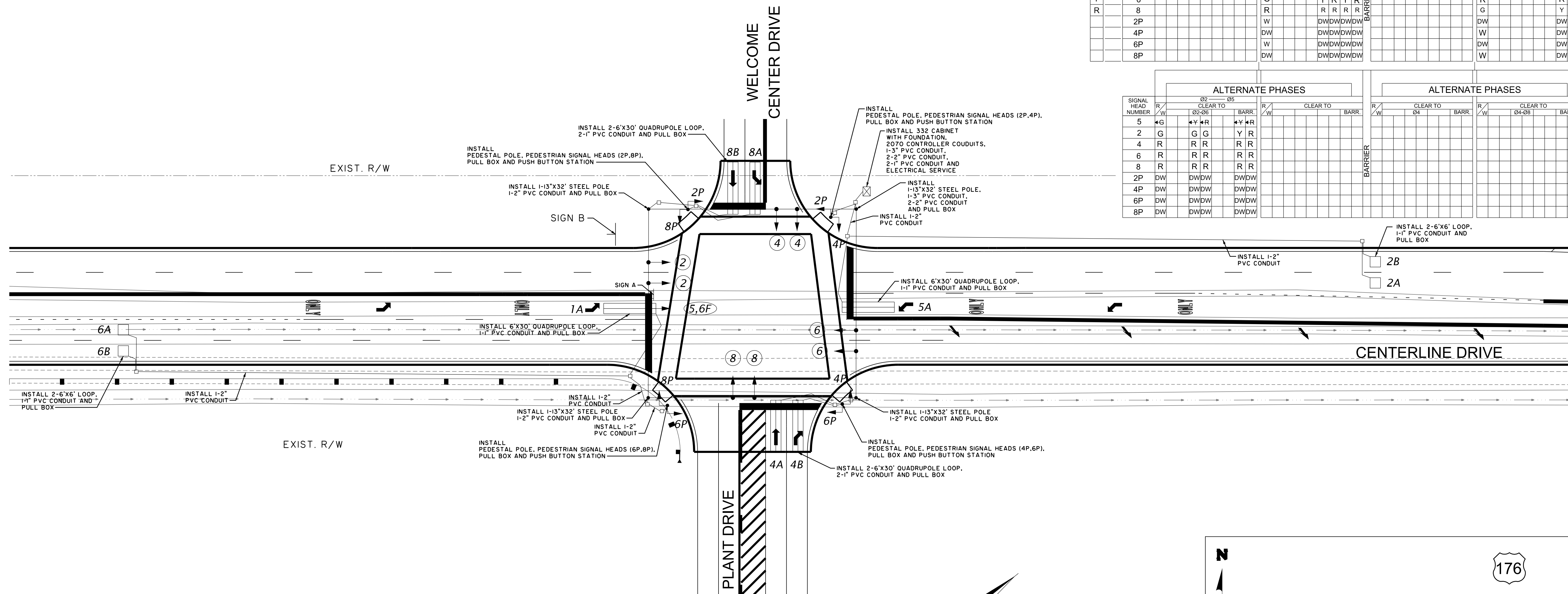
*C = COORDINATE 02 : 06

SIGNAL DISPLAY SEQUENCE (PREFERENTIAL PHASING)

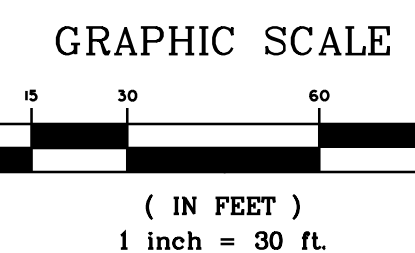
FLASHING	SIGNAL HEAD NUMBER	01 - 05				02 - 06				04 - 08					
		R/W	01-06	02-05	03-06	BARR.	R/W	01-05	01-06	02-05	BARR.	R/W	04	CLEAR TO	BARR.
	5														
	2														
	4														
	6														
	8														
	2P														
	4P														
	6P														
	8P														

ALTERNATE PHASES

SIGNAL HEAD NUMBER	R/W	02 - 05				04 - 08				
		R/W	02-06	02-05	03-06	BARR.	R/W	04	CLEAR TO	BARR.
5	←G									
2	G									
4	R									
6	R									
8	R									
2P	DW									
4P	DW									
6P	DW									
8P	DW									



PRE-INTERCHANGE OPEN PLAN



LOOP DETECTOR INSTALLATION CHART

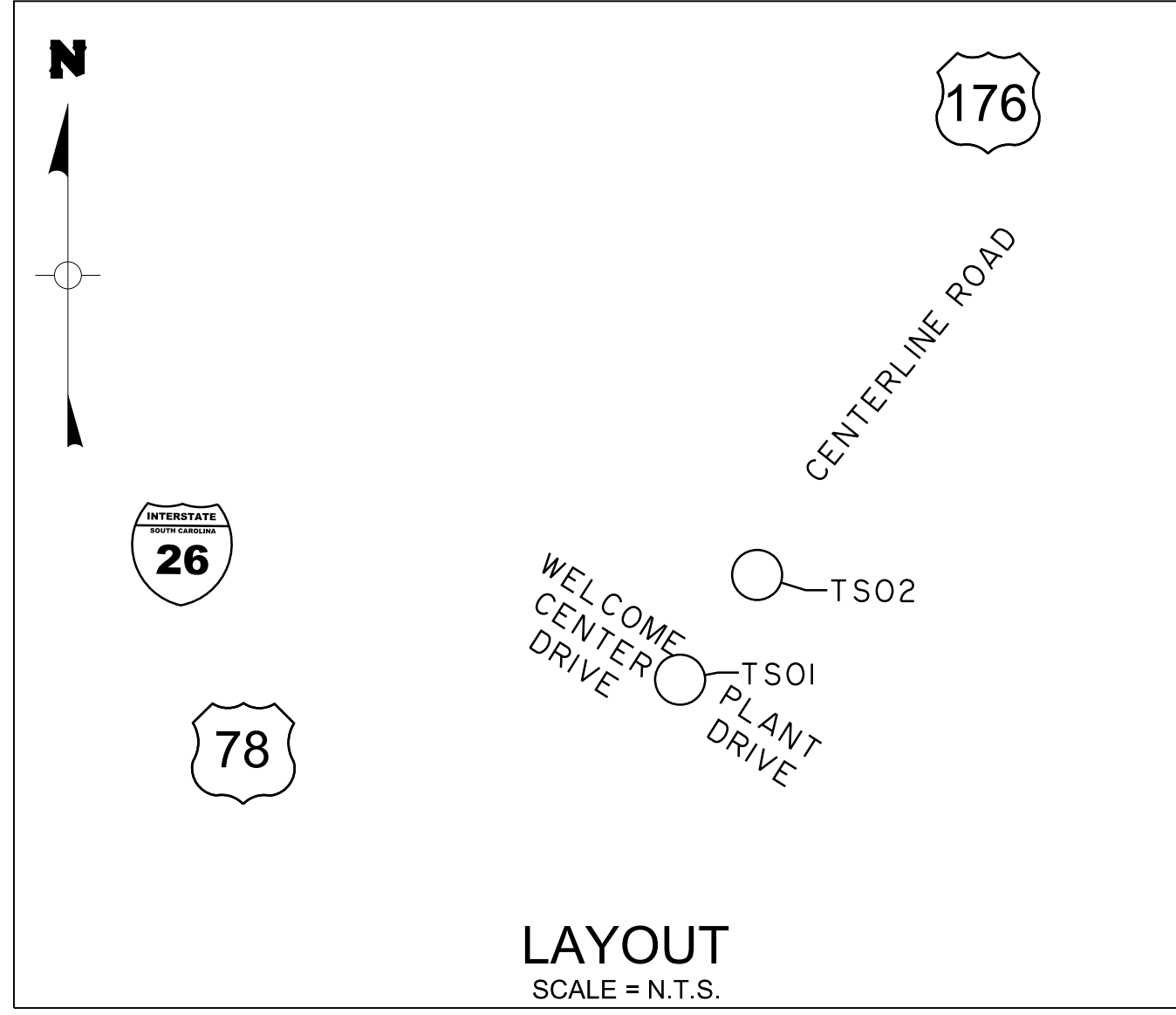
PHASE / LOOP LTR#	DETECTOR AMP CHAN NO.	WIRED TO PHASE(S)	LOCK X	NO. LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	EXT SEC	SPECIAL FEATURES TIME OF DAY - TOD SWITCHING, ETC.	LOOP DESIGN		
										SIZE	NO. OF TURNS	DIST FROM STOP BAR
1A	1		X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'
2A	2		X	X	X	X				6X6	4	330'
2B	2		X	X	X	X				6X6	4	330'
4A	4		X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'
4B	4		X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'
5A	5		X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'
6A	6		X	X	X	X				6X6	4	330'
6B	6		X	X	X	X				6X6	4	330'
8A	8		X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'
8B	8		X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'

SIGNAL TIMINGS

INTERVAL	PHASE							
	1	2	3	4	5	6	7	8
WALK								
DON'T WALK								
MIN INITIAL								
MAX INITIAL								
ADD/VEH								
VEH EXT								
TIM BFR REDUC								
TIME TO REDUC								
MIN GAP								
MAX LIMIT								
MAXIMUM 2								
YELLOW	4.4		3.1	3.0	4.4		3.1	
RED CLEAR	2.2		3.1	3.6	2.2		3.1	

NOTE: SIGNAL TIMING PLAN TO BE ADJUSTED TO ACCOMMODATE VOLVO PLANT SCHEDULE.

ROUTE	CENTERLINE ROAD	PLANT DRIVE	WELCOME CENTER DRIVE
APPROACH DIRECTION	NB SB	WB	EB
SIGNAL DESIGN SPEED	45 45	20	20
GRADE (%)	0 0	-2	-2



NO.	REVISIONS	BY	DATE

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BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
CENTERLINE ROAD
 TRAFFIC SIGNAL PLAN

JOB NO: J-25644.005
 DATE:
 DRAWN:
 DESIGNED:
 REVIEWED:
 APPROVED:
 SCALE: AS NOTED

TS01

SIGNAL EQUIPMENT

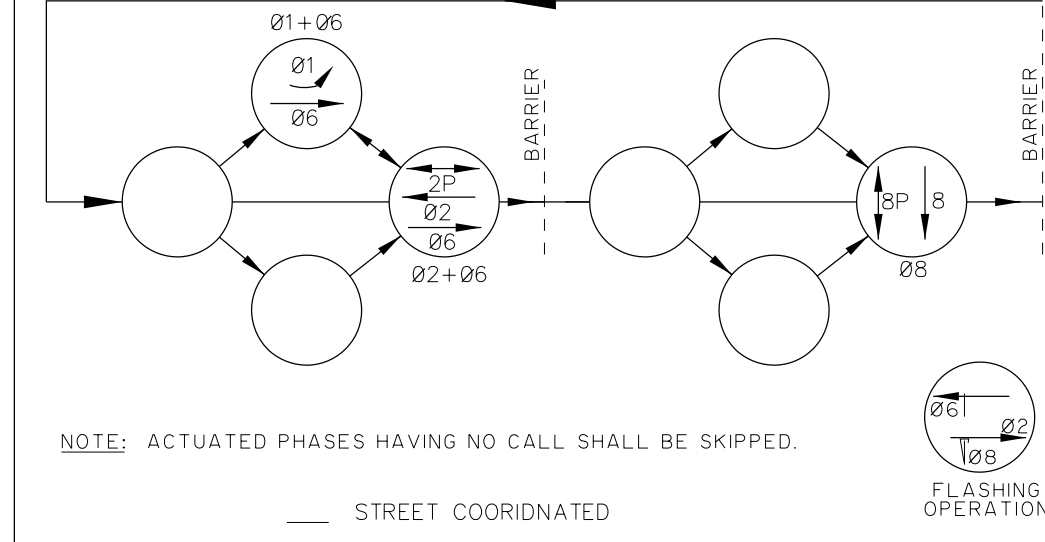
ONE (1) 8 PHASE FULLY ACTUATED STANDARD 2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT, AND POLE (BASE)-MOUNTED 3365 (3370) CABINET.
6 MODEL 222, (2)-CHANNEL VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. PROP. WACT. & SIGN

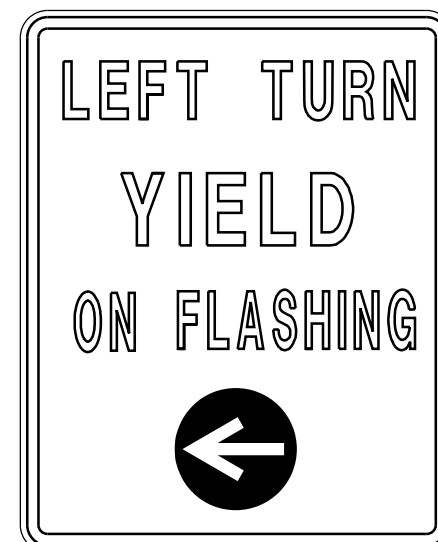
SIGNAL NUMBER	1,2F	2	6	8	2P	8P
LENS						
PHASE	1,OLA	2	6	8	2	8
SIZE	12"	12"	12"	12"	16"	16"
QUANTITY	1	2	2	2	2	2

OLA= Ø1+Ø2(FYA) OLC= _____
OLB= _____ OLD= _____
METAL POLES AS NECESSARY: EXT. ● PROP. M ●
WOOD POLES AS NECESSARY: EXT. ○ PROP. W ○

NEMA PHASING



SIGN A



R10-12A-30

SIGNAL DISPLAY SEQUENCE CHART

- R - RED
- ← R - RED ARROW
- Y - YELLOW
- ← Y - STEADY YELLOW ARROW
- ← FY - FLASHING YELLOW ARROW
- G - GREEN
- ← G - GREEN ARROW
- W-WALK**
- DW-DONT WALK

PHASE ON (A)	NON-CONFLICTION PHASE (B)	CONFLICTING PHASE *
1	6	2, 8, 2P, 8P
2	6, 2P	1, 8, 8P
3		
4		
5		
6	1, 2, 2P	8, 8P
7		
8	8P	1, 2, 2P, 6

* C' = COORDINATE Ø2; Ø6

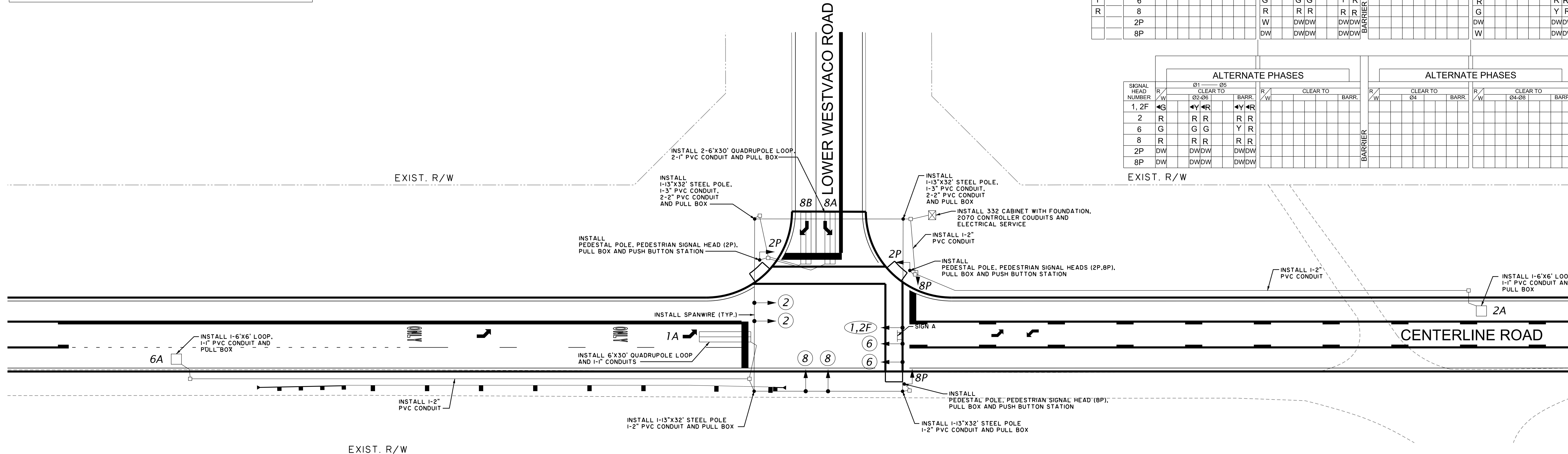
NOTE A: ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE OMITTED.
NOTE B: WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART).
** WHEN CALLED, DISPLAY SOLID 'WALKING PERSON' AND TIMES OUT WALK TIMING; THEN DISPLAYS FLASHING 'UPRAISED HAND' AND TIMES WALK CLEARANCE (DON'T WALK TIMING); THEN DISPLAYS A SOLID 'UPRAISED HAND'.

SIGNAL DISPLAY SEQUENCE (PREFERENTIAL PHASING)

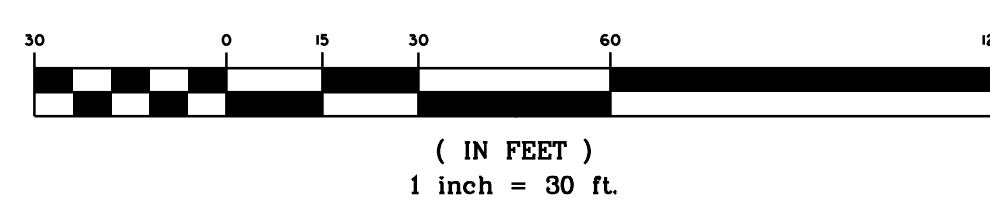
FLASH	SIGNAL HEAD NUMBER	Ø1 - Ø5				Ø2 - Ø6				Ø					
		R/W	Ø1-Ø5	Ø2-Ø5	Ø2-Ø6	BARR.	R/W	Ø1-Ø5	Ø1-Ø6	Ø2-Ø5	BARR.	R/W	Ø4	Ø4	BARR.
Y	1, 2F														
Y	2														
Y	6														
R	8														
	2P														
	8P														

ALTERNATE PHASES

SIGNAL HEAD NUMBER	R/W	Ø1 - Ø5				Ø2 - Ø6				Ø4					
		R/W	Ø1-Ø5	Ø2-Ø5	Ø2-Ø6	BARR.	R/W	Ø1-Ø5	Ø1-Ø6	Ø2-Ø5	BARR.	R/W	Ø4	Ø4-Ø8	BARR.
1, 2F															
2															
6															
8															
2P															
8P															



GRAPHIC SCALE



LOOP DETECTOR INSTALLATION CHART

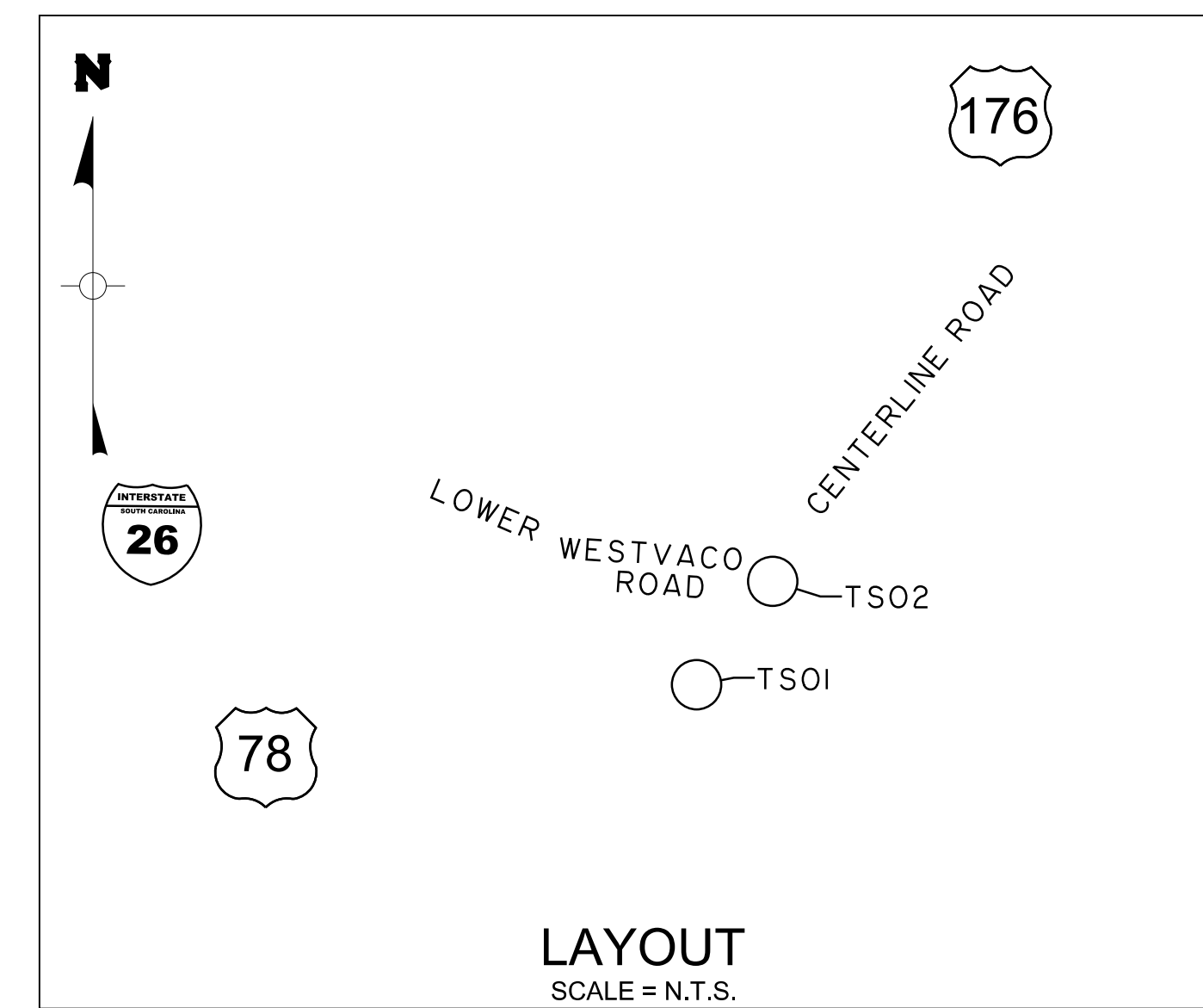
PHASE / LOOP LTR#	DETECTOR AMP NO.	WIRE TO CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	EXT SEC	SPECIAL FEATURES TIME OF DAY - TOD SWITCHING, ETC.	LOOP DESIGN		
											SIZE	NO. OF TURNS	DIST FROM STOP BAR
1A			1	X	X	X	X			QUADRUPOLE	6X30	2-4-2	-2'
2A			2	X			X				6X6	4	330'
6A			6	X			X				6X6	4	330'
8A			8		X	X				QUADRUPOLE	6X30	2-4-2	-2'
8B			8		X	X				QUADRUPOLE	6X30	2-4-2	-2'

SIGNAL TIMINGS

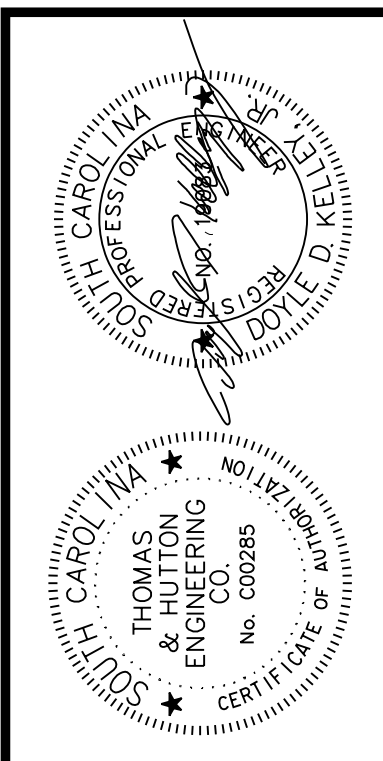
INTERVAL	PHASE							
	1	2	3	4	5	6	7	8
WALK								
DONT WALK	7							18
MIN INITIAL	8	15						8
MAX INITIAL								30
ADD/VEH								
VEH EXT	3.0	3.0				3.0	3.0	
TIM BFR REDUC								
TIME TO REDUC								
MIN GAP								
MAX LIMIT	15	40				40	30	
MAXIMUM 2	30	40				40	15	
YELLOW	3.0	4.4				4.4	3.3	
RED CLEAR	2.4	1.5				1.5	1.9	

NOTE: SIGNAL TIMING PLAN TO BE ADJUSTED TO ACCOMMODATE VOLVO PLANT SCHEDULE.

ROUTE	CENTERLINE ROAD	LOWER WESTVACO RD.
APPROACH DIRECTION	NB SB	EB
SIGNAL DESIGN SPEED	45 45	30
GRADE (%)	0 0	-2



LAYOUT SCALE = N.T.S.



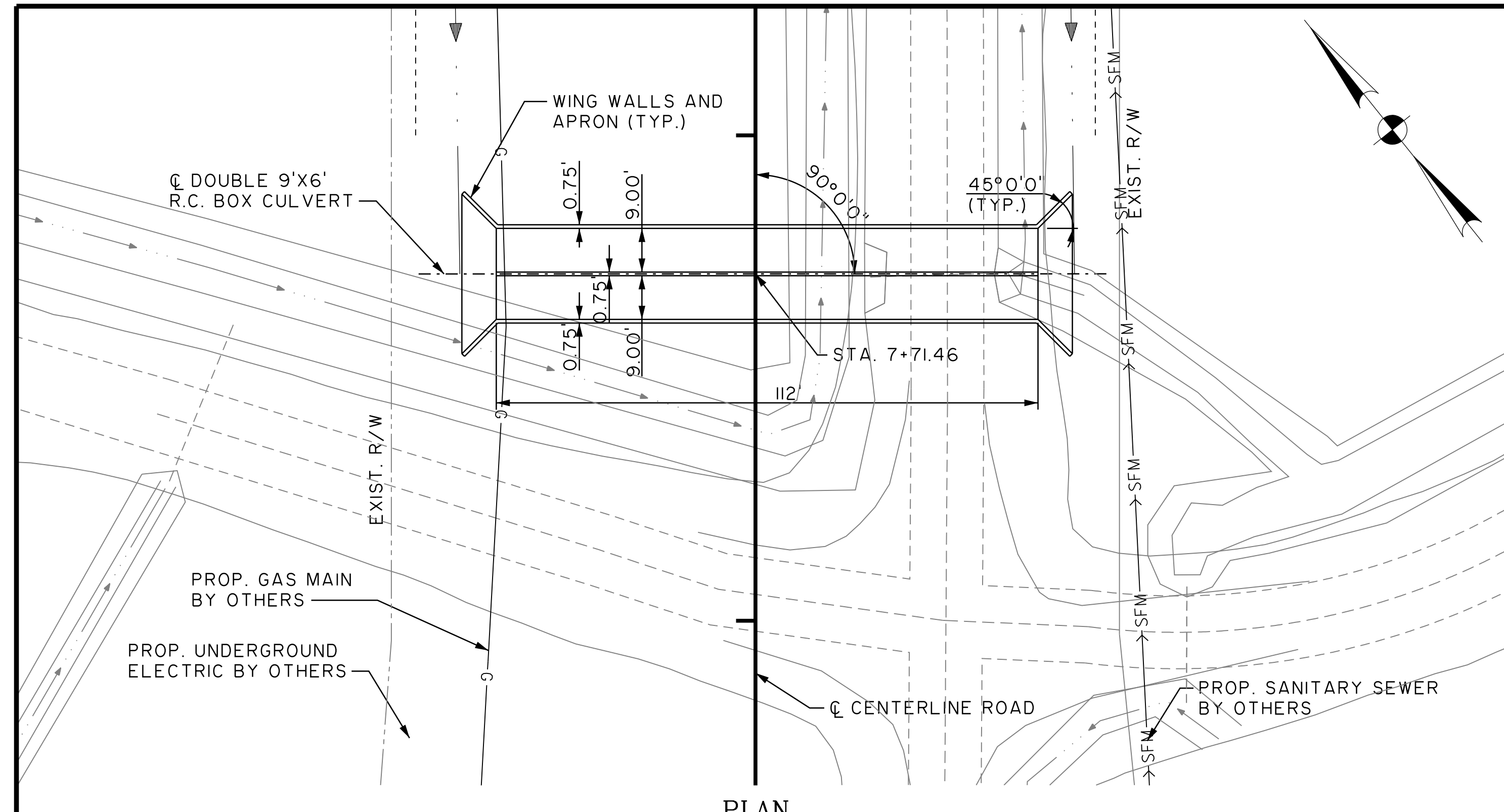
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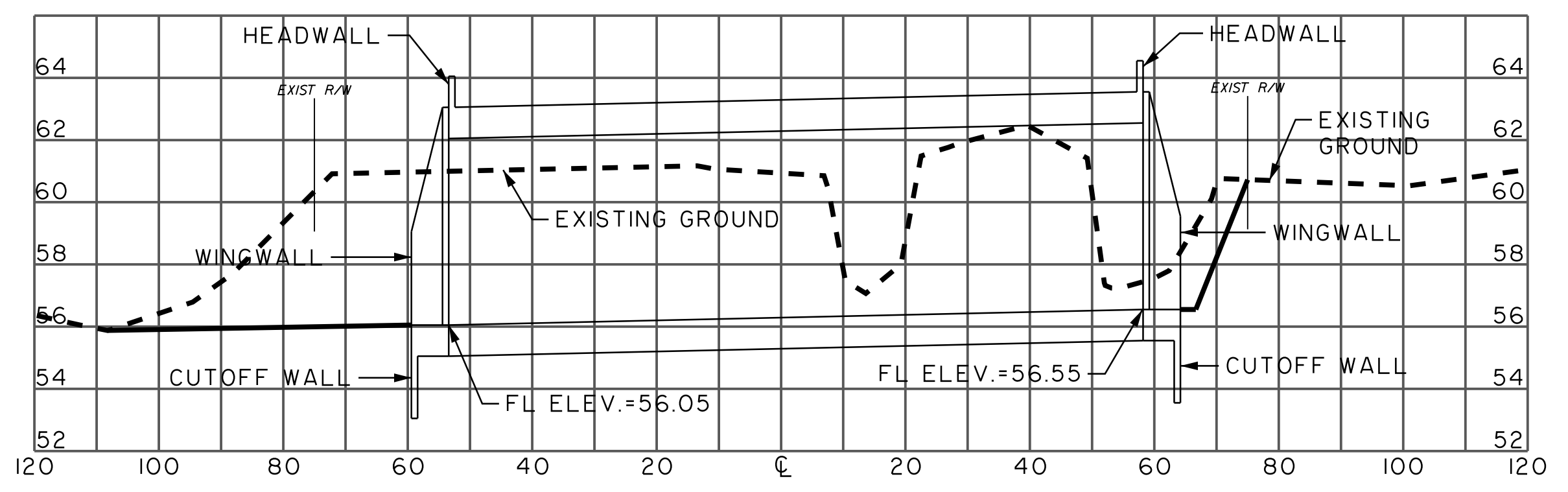
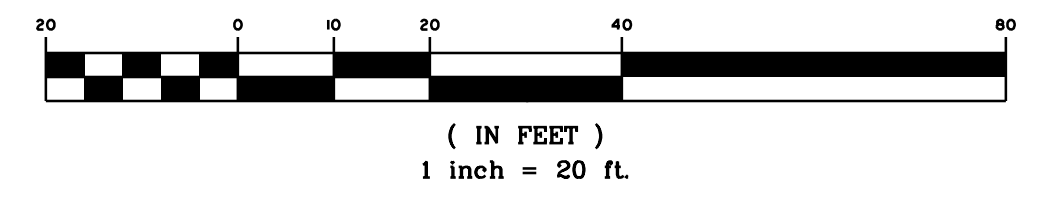
BERKELEY COUNTY
BERKELEY COUNTY, S.C.
CENTERLINE ROAD
TRAFFIC SIGNAL PLAN

JOB NO: J-25644.0005
DATE: _____
DESIGNED: _____
REVIEWED: _____
APPROVED: _____
SCALE: AS NOTED

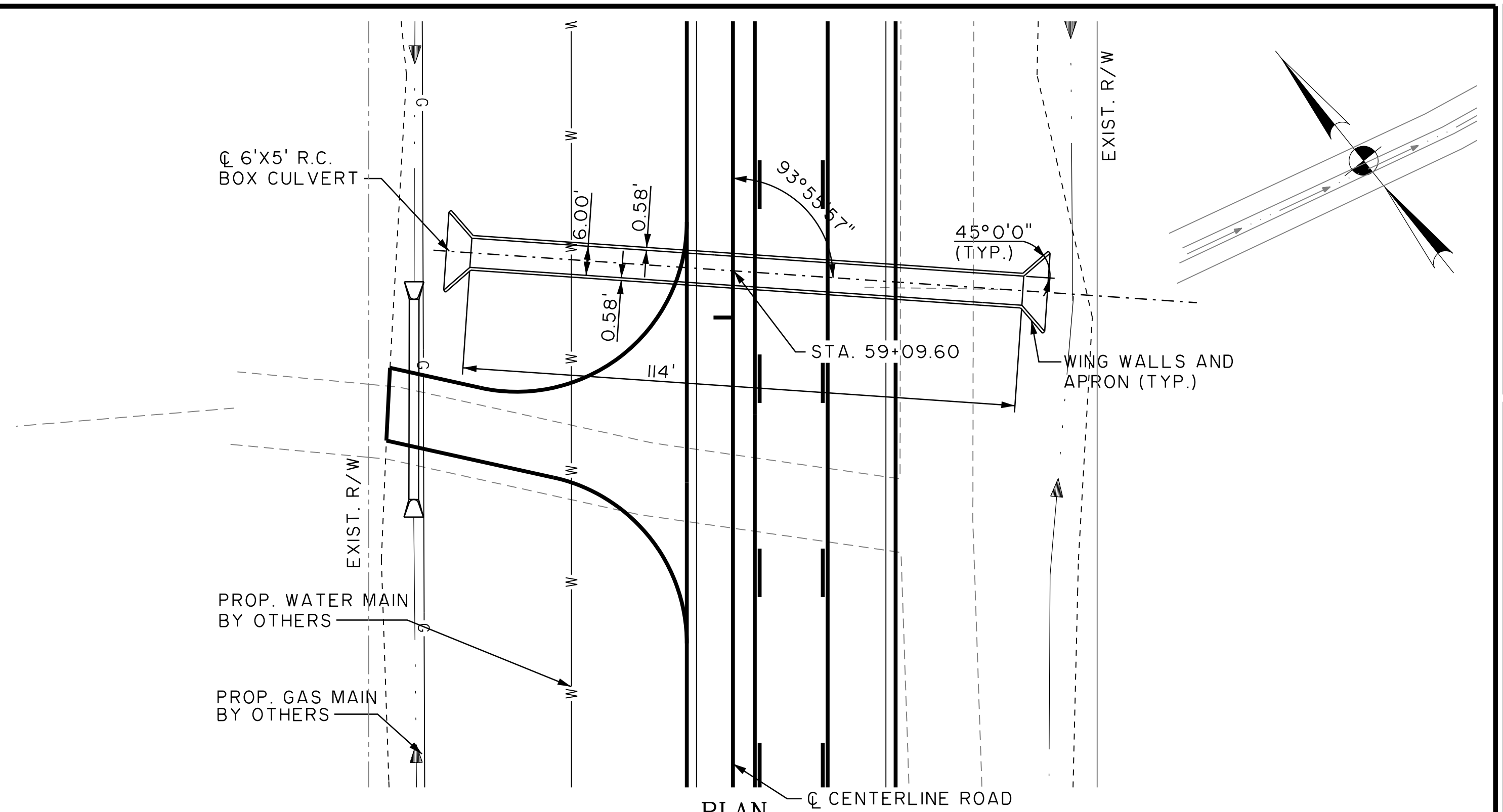
TS02



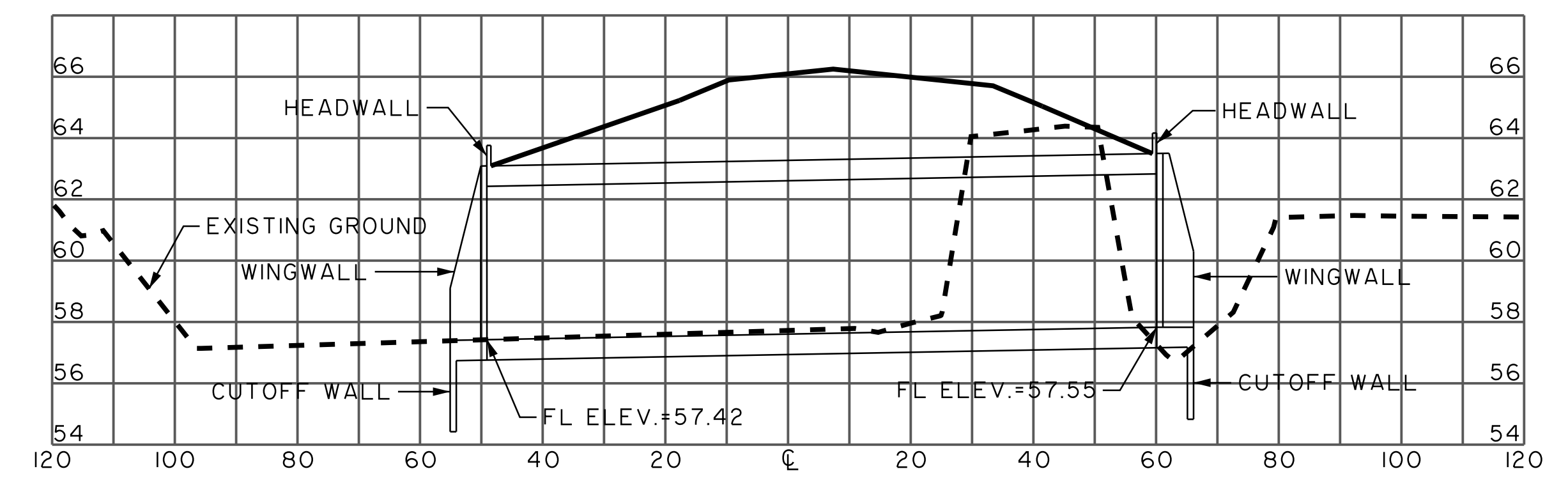
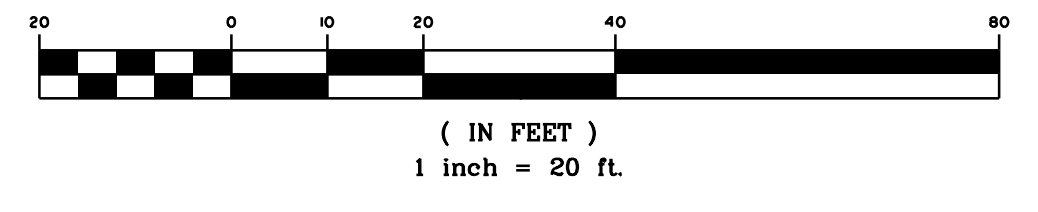
PLAN
GRAPHIC SCALE



PROFILE
CULVERT NO. 1



PLAN
GRAPHIC SCALE



PROFILE
CULVERT NO. 2

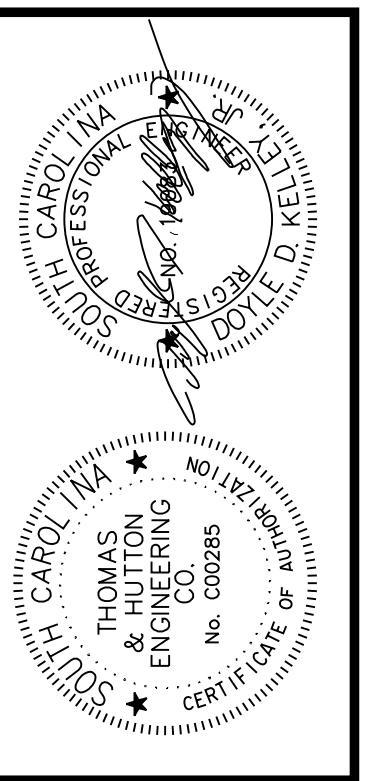
STRUCTURE GENERAL NOTES:

- I.00 GENERAL NOTES
- I.01 ALL CONSTRUCTION MATERIALS, DESIGN, MANUFACTURING, TESTING, GEOMETRY, AND PRODUCT PERFORMANCE FOR REINFORCED CONCRETE BOX CULVERTS (RCBC) AND PRECAST CONCRETE BOX CULVERTS (PCBC) SHALL BE IN ACCORDANCE WITH SCDOT 2007 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND AASHTO M 259 OR M 273 OR ASTM C 1433 OR C 1577 EXCEPT AS NOTED.
- I.02 DESIGN PRECAST RCBC USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CURRENT EDITION.
- I.03 DESIGN TABLES OF AASHTO M 259, M 273, ASTM C 1433, OR ASTM C 1577 MAY BE USED FOR PCBC BARREL SECTIONS.
- I.04 CONCRETE FOR PCBC SHALL BE MINIMUM CLASS 5000 MEETING THE REQUIREMENTS OF SECTION 701 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). CONCRETE FOR RCBC AND CAST-IN-PLACE COMPONENTS SHALL BE MINIMUM CLASS 4000.
- I.05 REINFORCING STEEL SHALL BE ASTM A 706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M55 AND M 221. REINFORCING STEEL LAYOUT SHALL BE IN ACCORDANCE WITH AASHTO M 359 OR M 273 OR ASTM I433 OR ASTM I577 OR AS SHOWN IN THE PLANS.
- I.06 MANUFACTURERS WISHING TO SUPPLY PCBC SHALL FOLLOW REQUIREMENTS OF SCDOT QUALIFIED PROJECT LIST I4.

- I.07 SEE ALSO STANDARD DRAWINGS 722-105-01 & 722-105-02 BOX CULVERT MISCELLANEOUS DATA SHEET.
- I.08 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN PROVIDE DETAILS SIMILAR TO THOSE SHOWN.
- I.09 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCY.
- I.10 NOTIFY THE ENGINEER OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE CONTRACT DOCUMENTS.
- I.11 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE STRUCTURAL ELEMENTS ARE NOT STABLE UNTIL THE STRUCTURE IS COMPLETE.
- 2.00 DESIGN
- 2.01 SEE PROJECT PLANS FOR CULVERT DESIGN REQUIREMENTS.
- 2.02 DESIGN ALL BOX CULVERT COMPONENTS USING THE MOST CONSERVATIVE COMBINATION OF HIGHEST/LOWEST EXPECTED EARTH DEAD LOAD IN CONJUNCTION WITH HL93 LIVE LOAD.
- 2.03 DESIGN WINGWALLS TO BE SELF SUPPORTING. DO NOT TRANSFER WINGWALL LOADING INTO CULVERT BARREL.
- 2.04 APRON THICKNESS SHALL EQUAL THE THICKNESS OF THE BOTTOM SLAB OF THE CULVERT BARREL.

- 2.05 FABRICATE END SECTIONS WITH EXPOSED END CAST FLUSH (WITHOUT TONGUE OR GROOVE) AND EITHER SHOP DRILL HOLES FOR ADHESIVELY BONDED DOWELS OR INSERTS FOR THREADED RODS. ANCHORS ARE INTENDED TO CONTROL DIFFERENTIAL SETTLEMENT. NOT AS A LOAD TRANSFER MECHANISM.
- 2.06 CONTRACTOR IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF ELEMENTS AND THEIR CONNECTIONS. DESIGN SHALL BE PERFORMED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. SHOP DRAWINGS AND CALCULATIONS SEALED BY THE ENGINEER SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. REVIEW OF CALCULATIONS AND SHOP 2 DRAWINGS SHALL BE FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL NOT RELIEVE CONTRACTOR AND ITS ENGINEER OF THE FULL RESPONSIBILITY FOR DESIGN OF PRECAST AND CONNECTIONS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.
- 2.07 DESIGN OF MEMBERS AND CONNECTIONS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 HL-93 DEAD LOAD
 LIVE LOAD
 LATERAL EARTH PRESSURE
 SEISMIC LOADS
 TEMPERATURE CHANGES
 SHRINKAGE AND CREEP
 CONSTRUCTION LOADS
 FLOTATION EFFECTS
 MANUFACTURING AND ERECTION LOADS.

STRUCTURE GENERAL NOTES
CONTINUED ON SHEET S02.



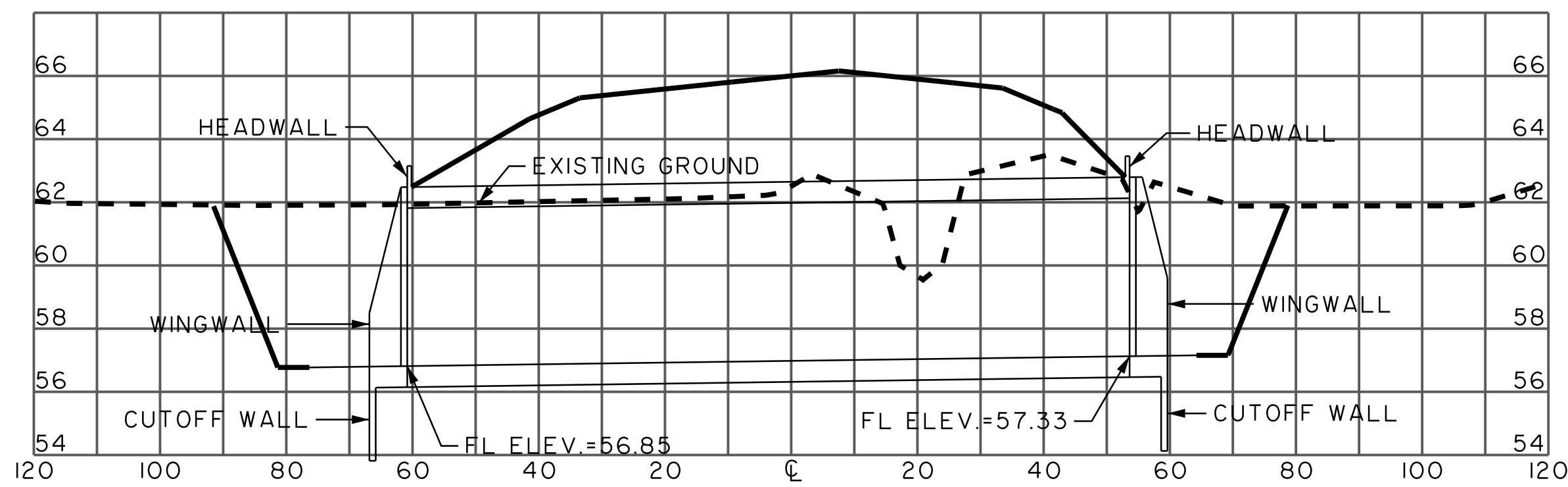
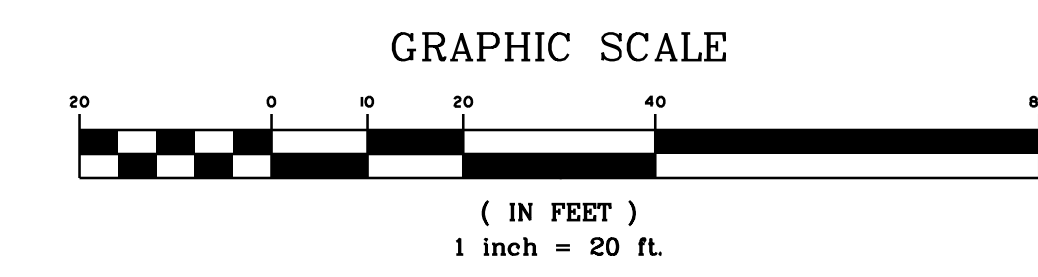
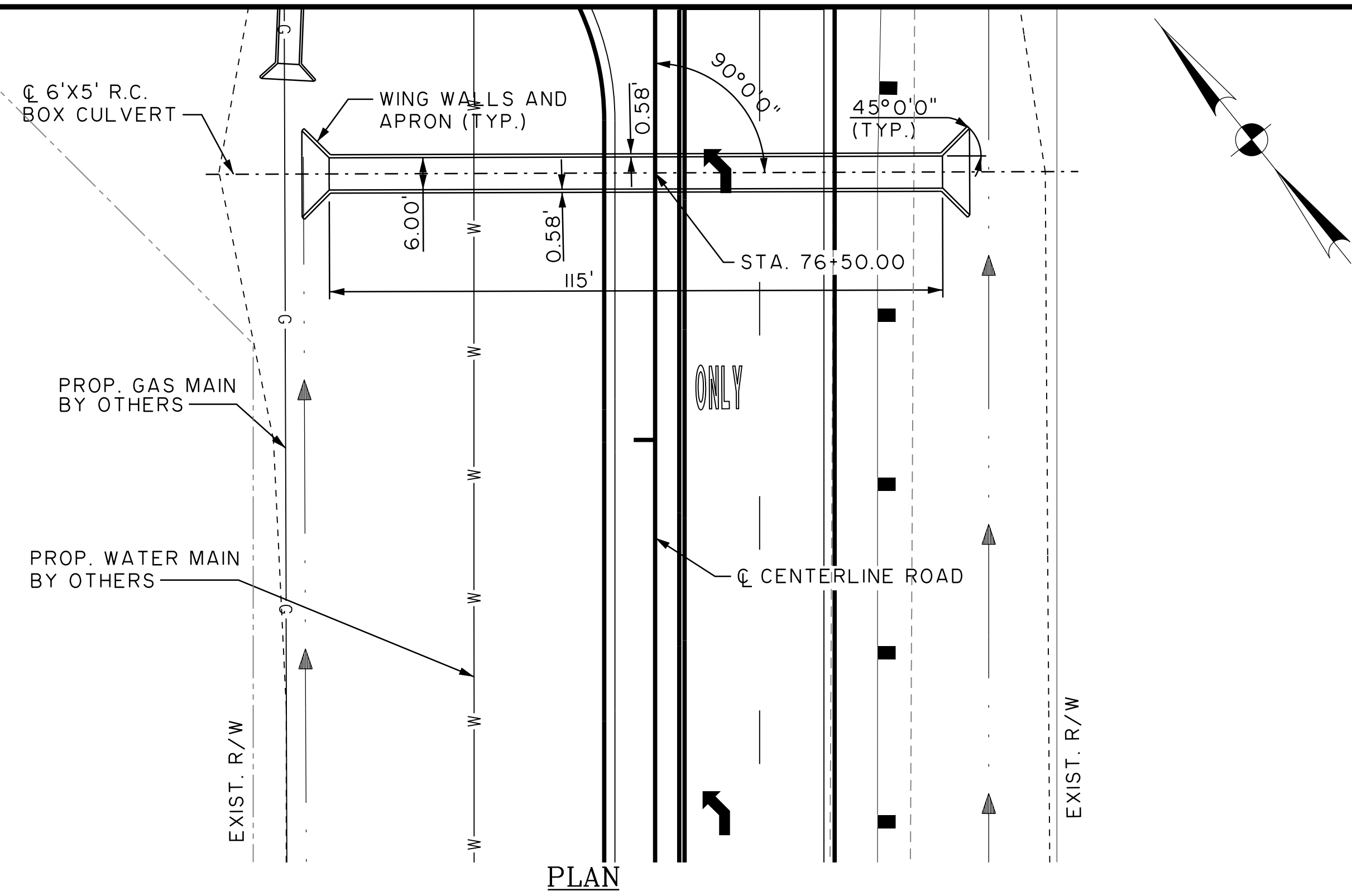
NO.	REVISIONS	BY	DATE

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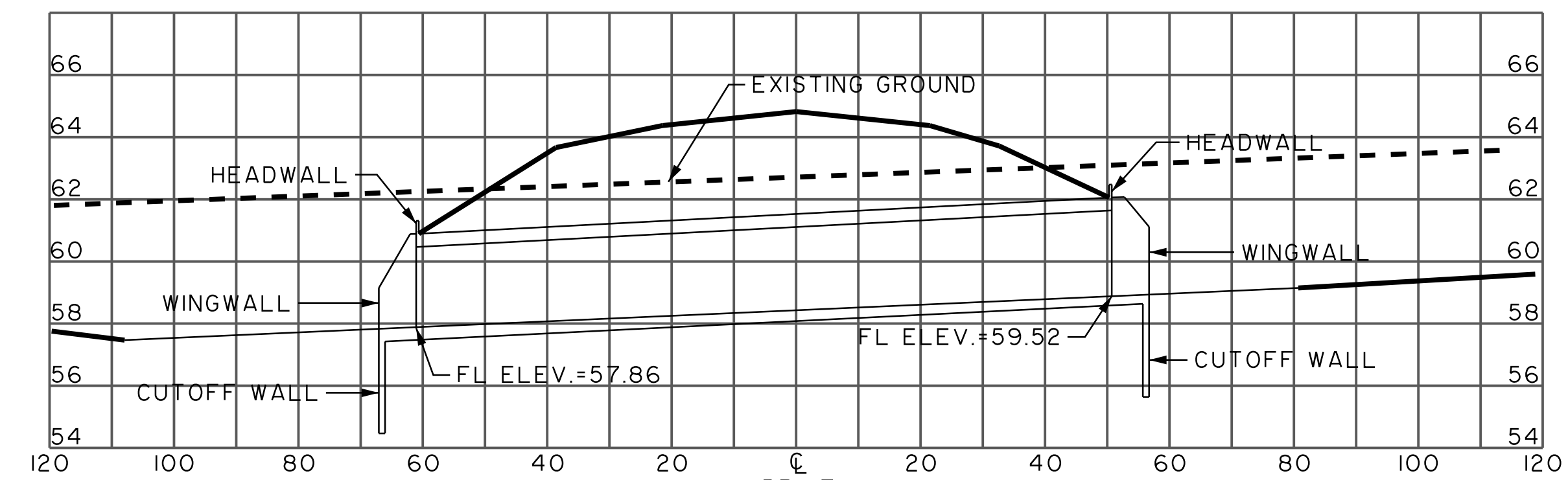
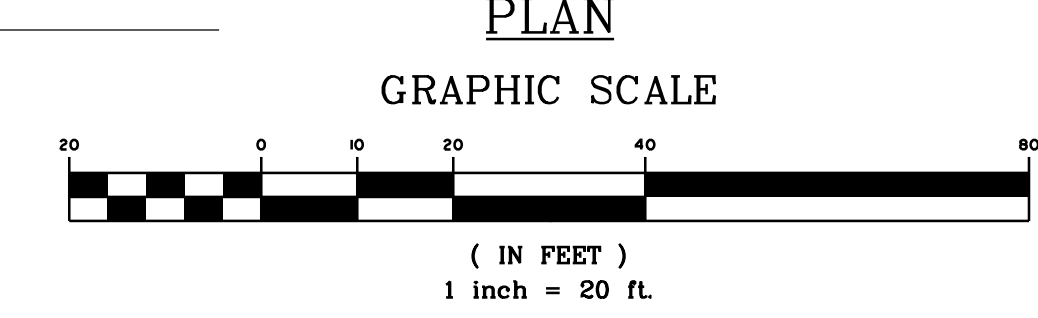
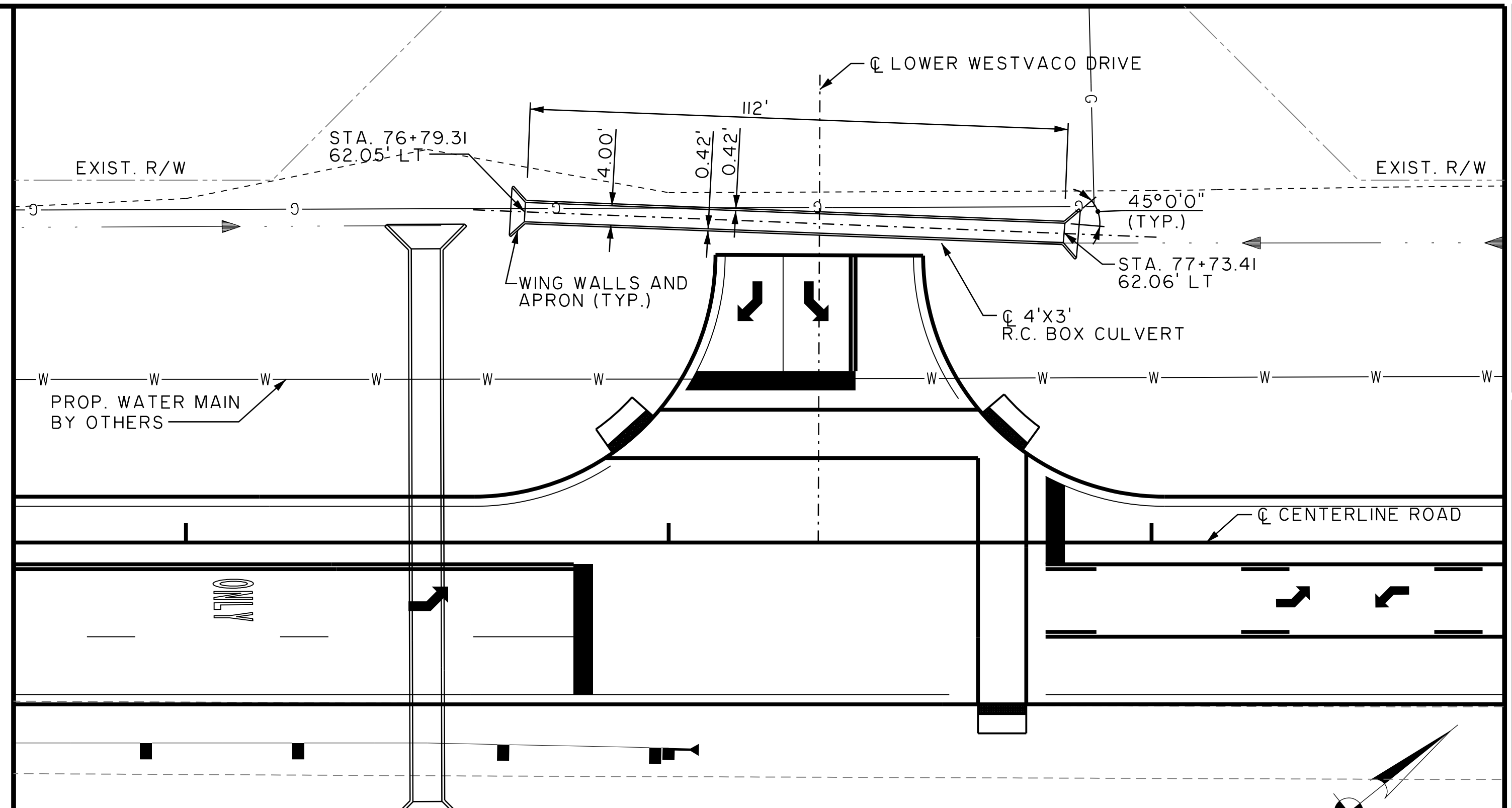
BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
CENTERLINE ROAD
 ROADWAY STRUCTURE PLANS

JOB NO:	J-25644.1005
DATE:	
DESIGNED:	
REVIEWED:	
APPROVED:	
SCALE:	AS NOTED

S01



PROFILE
CULVERT NO. 3



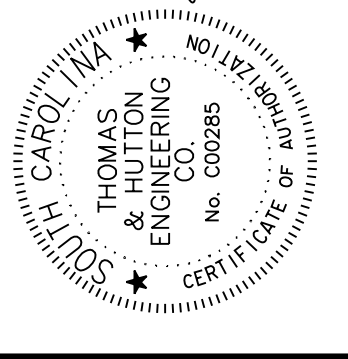
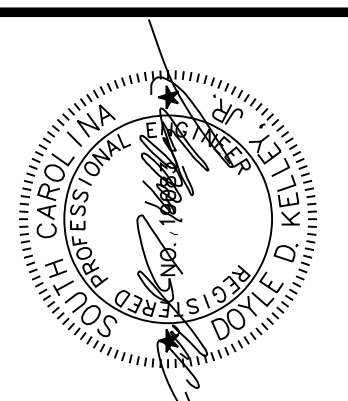
PROFILE
CULVERT NO. 4

STRUCTURE GENERAL NOTES (CONT. FROM SHEET S01):

- 3.00 DETAILS
- 3.01 USE MINIMUM CLASS B RIP RAP FOR BOX CULVERTS UP TO 3'x3'. USE MINIMUM CLASS C RIP RAP FOR BOX CULVERTS LARGER THAN 3'x3'.
- 3.02 PLACE RIP RAP IN CUT-OFF WALL TRENCH, BEHIND WINGWALLS AND HEADWALL, AND WRAPPED AROUND ENDS OF WINGWALLS AS NECESSARY. PLACE GEOTEXTILE FOR EROSION CONTROL UNDER RIP RAP AS SPECIFIED IN SCDOT STANDARD SPECIFICATIONS.
- 3.03 UNLESS NOTED OTHERWISE ALL EXPOSED STEEL ANCHORS AND PLATES SHALL BE GALVANIZED OR PAINTED WITH APPROVED RUST INHIBITING PRIMER.
- 4.00 INSTALLATION
- 4.01 PREPARE BED FOR CULVERT SECTIONS AS INDICATED IN SECTION 722 OF THE SCDOT STANDARD SPECIFICATIONS OR AS INDICATED IN THE PLANS AND ENGINEER.
- 4.02 CONSTRUCT PCBC SECTIONS BEGINNING AT THE OUTLET END OF THE CULVERT. INSTALL GROOVE ENDS LAYING UPGRADE. CONSTRUCT RBC BARREL WITH MINIMAL COLD JOINTS.
- 4.03 FOR PCBC APPLY JOINT SEALANT IN ACCORDANCE WITH AASHTO M 198 AND MANUFACTURER RECOMMENDATIONS. CONTINUE INSTALLATION OF PCBC SECTIONS IN ACCORDANCE WITH SECTION 722.
- 4.04 CONSTRUCT WINGWALLS, HEADWALLS, APRONS AND CUT-OFF WALLS.

- 4.05 BACKFILL AS REQUIRED, INSTALLING FRENCH DRAINS AT WEEP HOLE ELEVATIONS. SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 702.
- 4.06 TAKE CARE TO AVOID DAMAGE TO THE CULVERT SECTIONS DURING HANDLING, INSTALLATION AND BACKFILLING OF SECTIONS.
- 4.07 MULTIPLE BARREL PCBC SECTIONS SHALL BE INSTALLED WITH A MINIMUM GAP OF 3 1/2" BETWEEN WALLS OF ADJACENT BARRELS. THIS GAP SHALL BE FILLED WITH FLOWABLE FILL, AND THEN EXPOSED END SHALL BE CAPPED WITH AT LEAST 6' OF CLASS 3000 MIN. CONCRETE FOR EROSION PROTECTION. CONCRETE MAY BE USED FOR ENTIRE CAP IF DESIRED.
- 4.08 TYPICAL DETAILS SHOWN MAY BE APPLIED TO THE PRECAST AND CAST-IN-PLACE CONSTRUCTION.
- 4.09 DURING HANDLING, STORAGE, AND TRANSPORTING, LIFT AND SUPPORT MEMBERS ONLY AT THE LIFTING AND SUPPORT POINTS SHOWN ON THE SHOP DRAWINGS. USE PROPER EQUIPMENT AND METHODS OF BRACING DURING TRANSPORTATION TO INSURE THAT MEMBERS WILL ARRIVE AT THE JOB SITE UNDAMAGED. PROVIDE PADDING TO PREVENT CHIPPING OF THE CONCRETE.
- 4.10 IF CAST-IN LIFTING LOOPS OR INSERTS ARE USED, CUT OFF LOOPS OR INSERTS A MINIMUM OF 1/2" BELOW SURFACE AND FILL RECESS WITH AN EPOXY GROUT APPROVED BY THE ENGINEER.
- 5.00 PAYMENT
- 5.01 [702.02.01] CONSTRUCTION OF REINFORCED CONCRETE BOX CULVERT ___ NO. ___ [EA] [1]
- 5.02 ABOVE PAY ITEM INCLUDES ALL PAYMENT FOR ALL MATERIALS AND LABOR NECESSARY TO CONSTRUCT CULVERT AS SHOWN IN PLANS.

- 6.00 FOUNDATIONS
- 6.01 FOUNDATION DESIGN SHALL BE BASED ON AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF.
- 6.02 WHERE APPLICABLE, ALL EXCAVATIONS, COMPACTED FILL AND SUBGRADES SHALL BE OBSERVED AND TESTED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA TO VERIFY SPECIFIED GEOTECHNICAL CONFORMANCE REQUIREMENTS.
- 6.03 THE CONTRACTOR SHALL EMPLOY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA TO VERIFY THE SOIL BEARING CAPACITY MEETS THE ALLOWABLE BEARING PRESSURE LISTED IN THE GENERAL NOTES PRIOR TO INSTALLATION OF ANY FOUNDATIONS OR SLABS ON GRADE.
- 6.04 WHERE APPLICABLE, COMPACT SOIL MATERIALS TO NOT LESS THAN 95% MAXIMUM DRY DENSITY ACCORDING TO ASTM D 1557 (MODIFIED PROCTOR).
- 6.05 DO NOT PLACE BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST OR ICE.



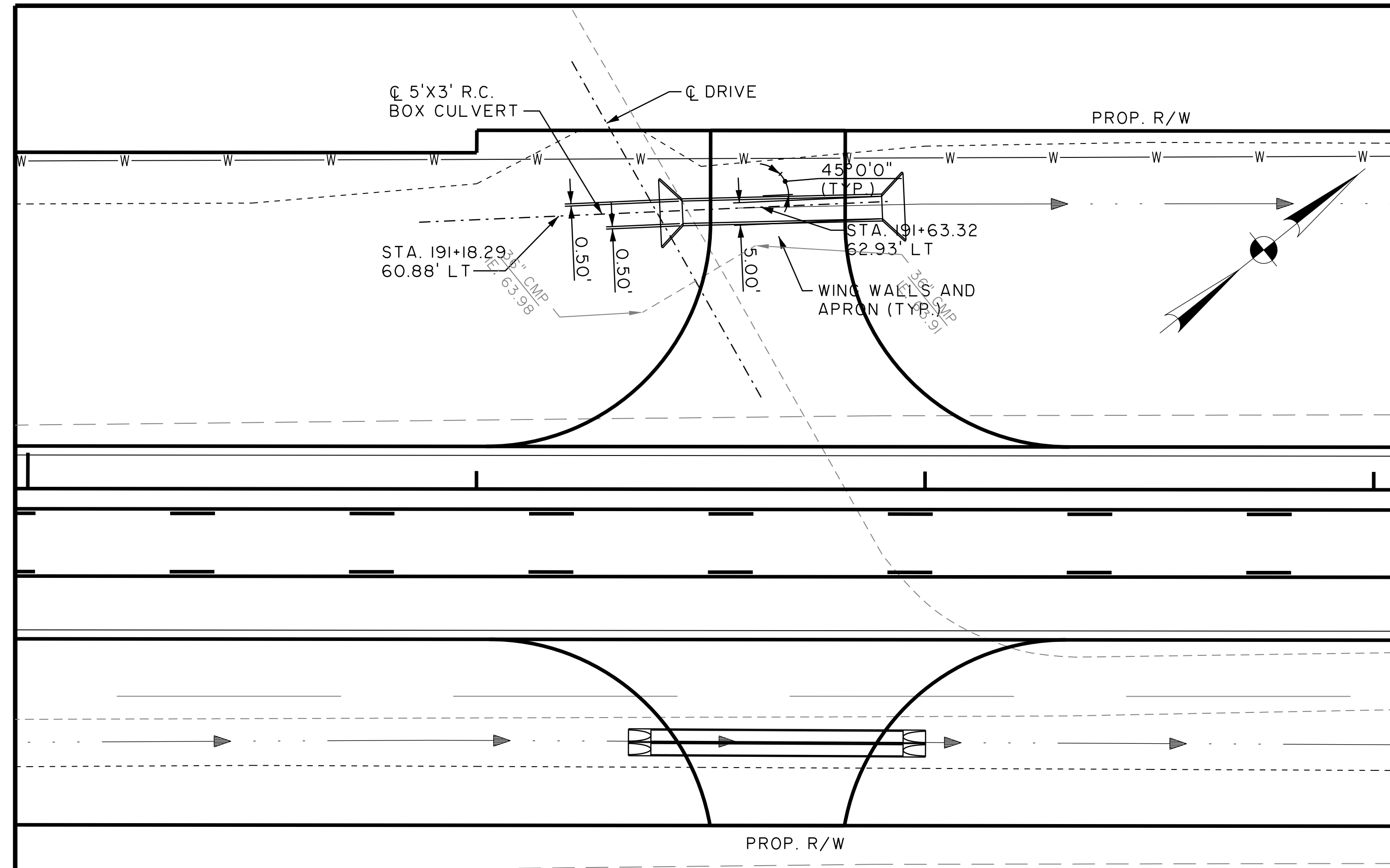
NO.	REVISIONS	BY	DATE

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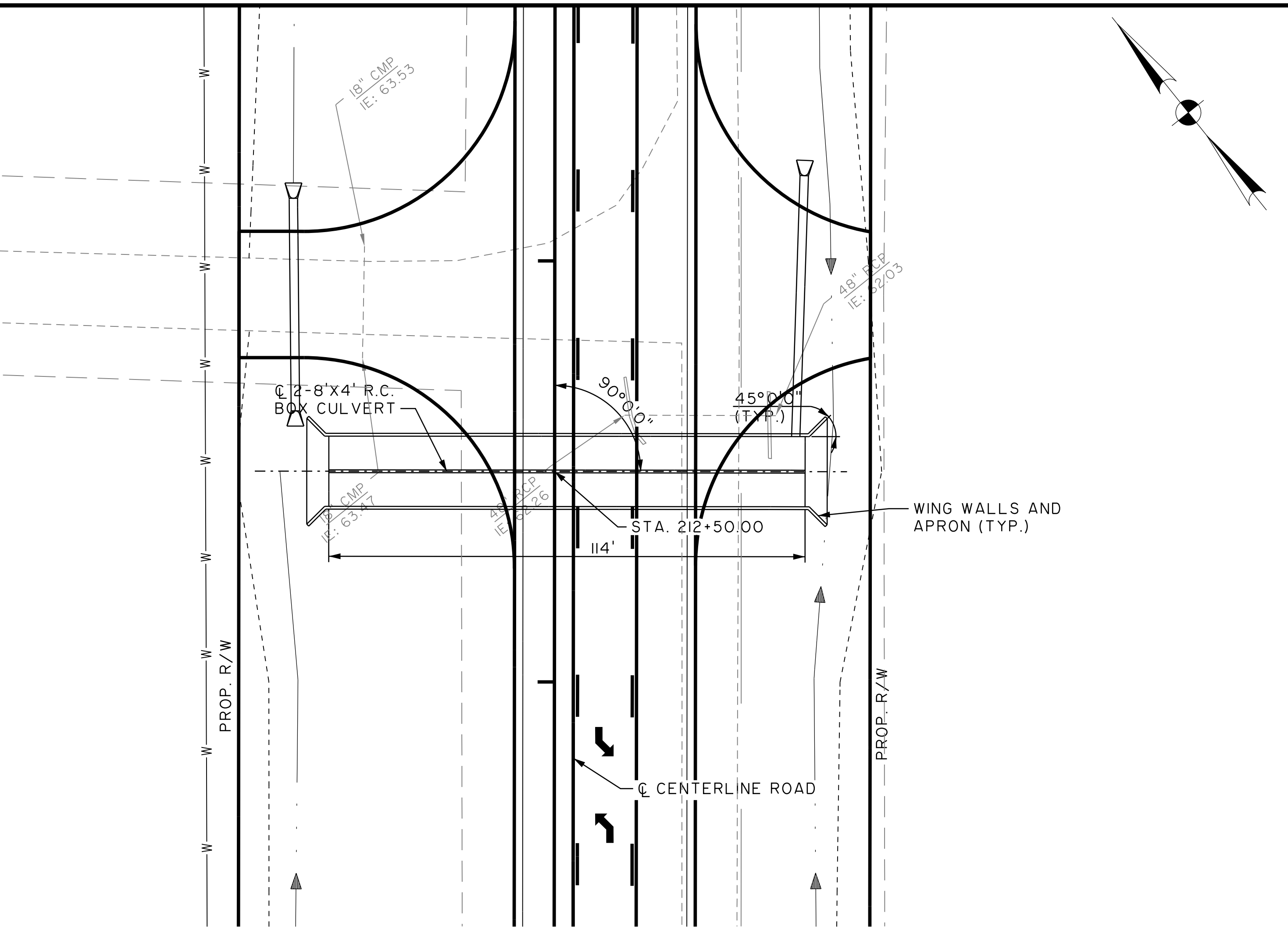
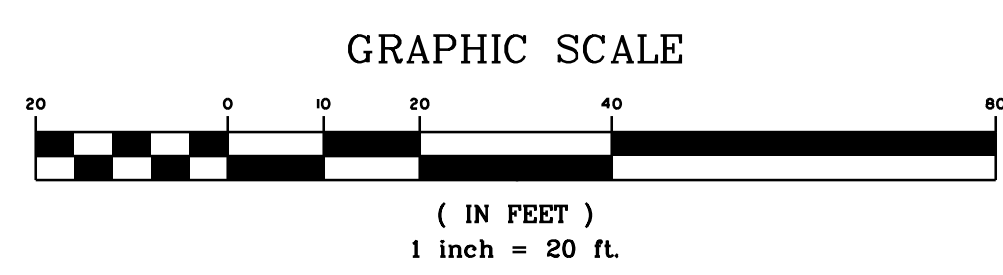
BERKELEY COUNTY
BERKELEY COUNTY, S.C.
CENTERLINE ROAD
ROADWAY STRUCTURE PLANS

JOB NO:	J-25644.1005
DATE:	
DESIGNED:	
REVIEWED:	
APPROVED:	
SCALE:	AS NOTED

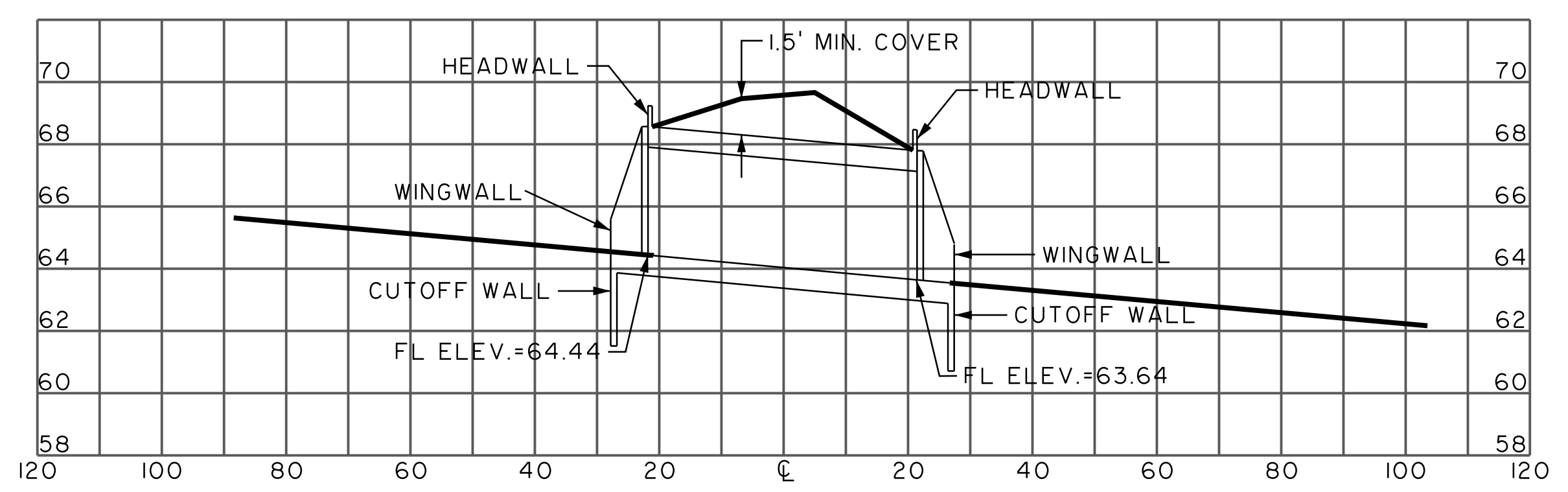
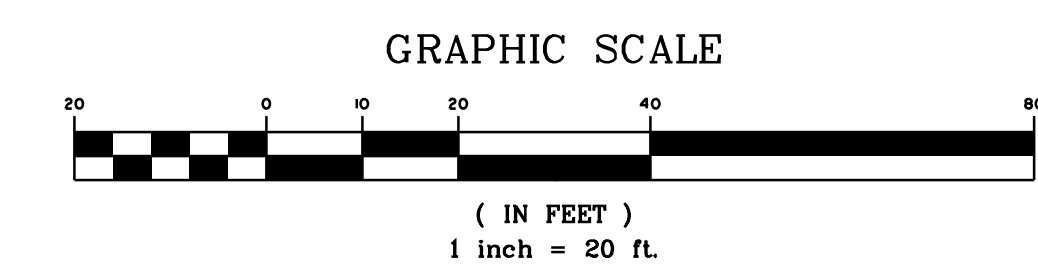
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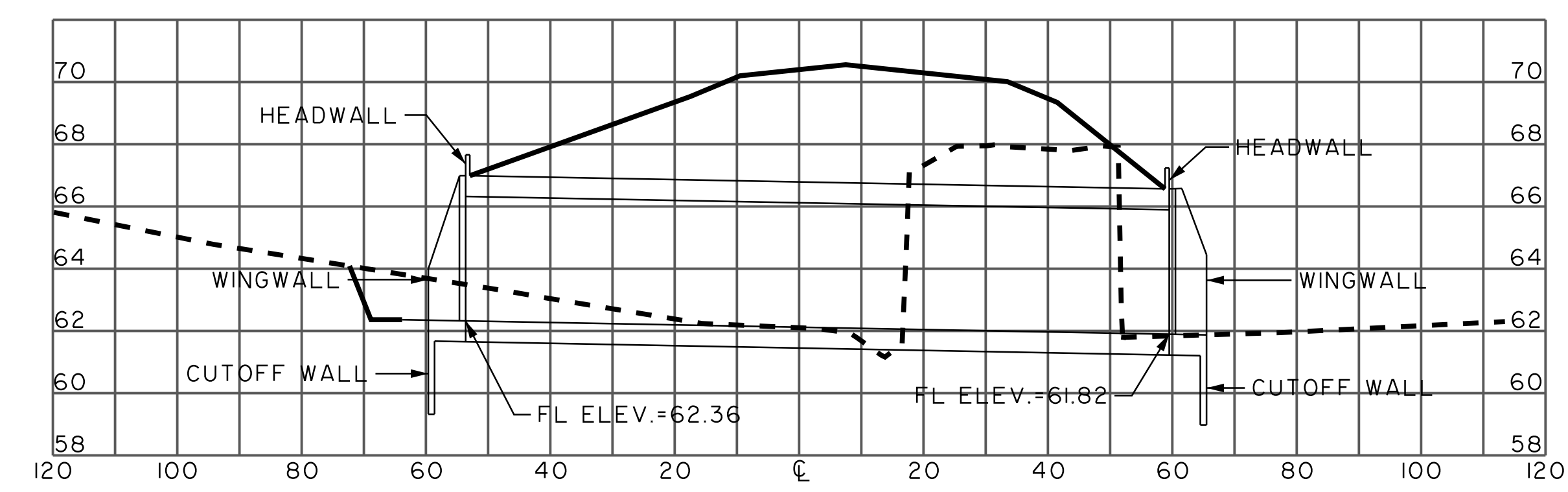
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PLAN



PROFILE
CULVERT NO. 5



PROFILE
CULVERT NO. 6



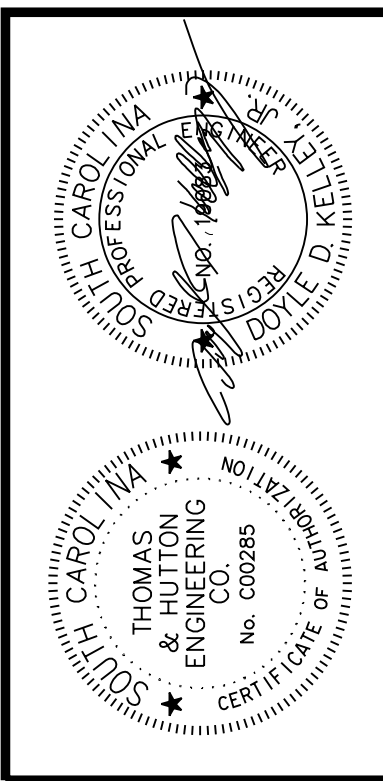
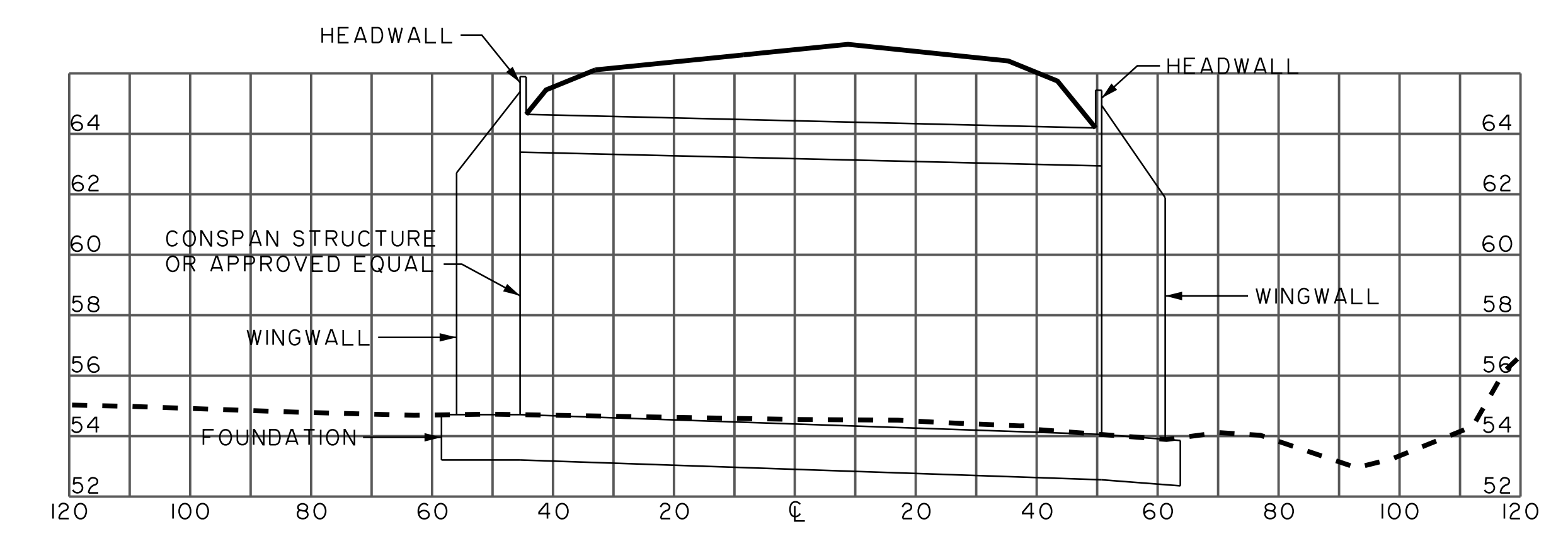
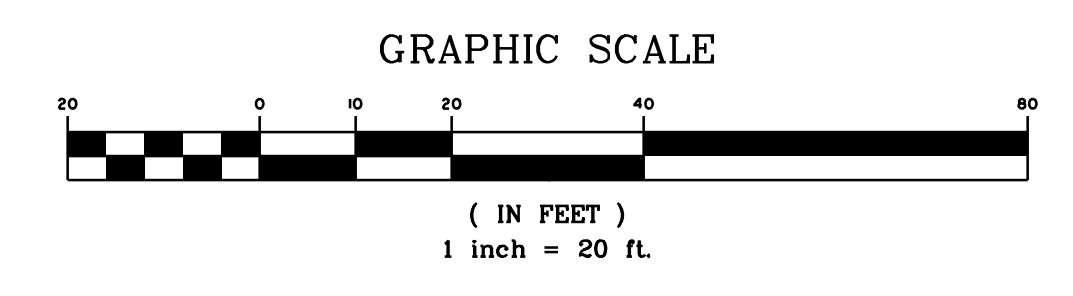
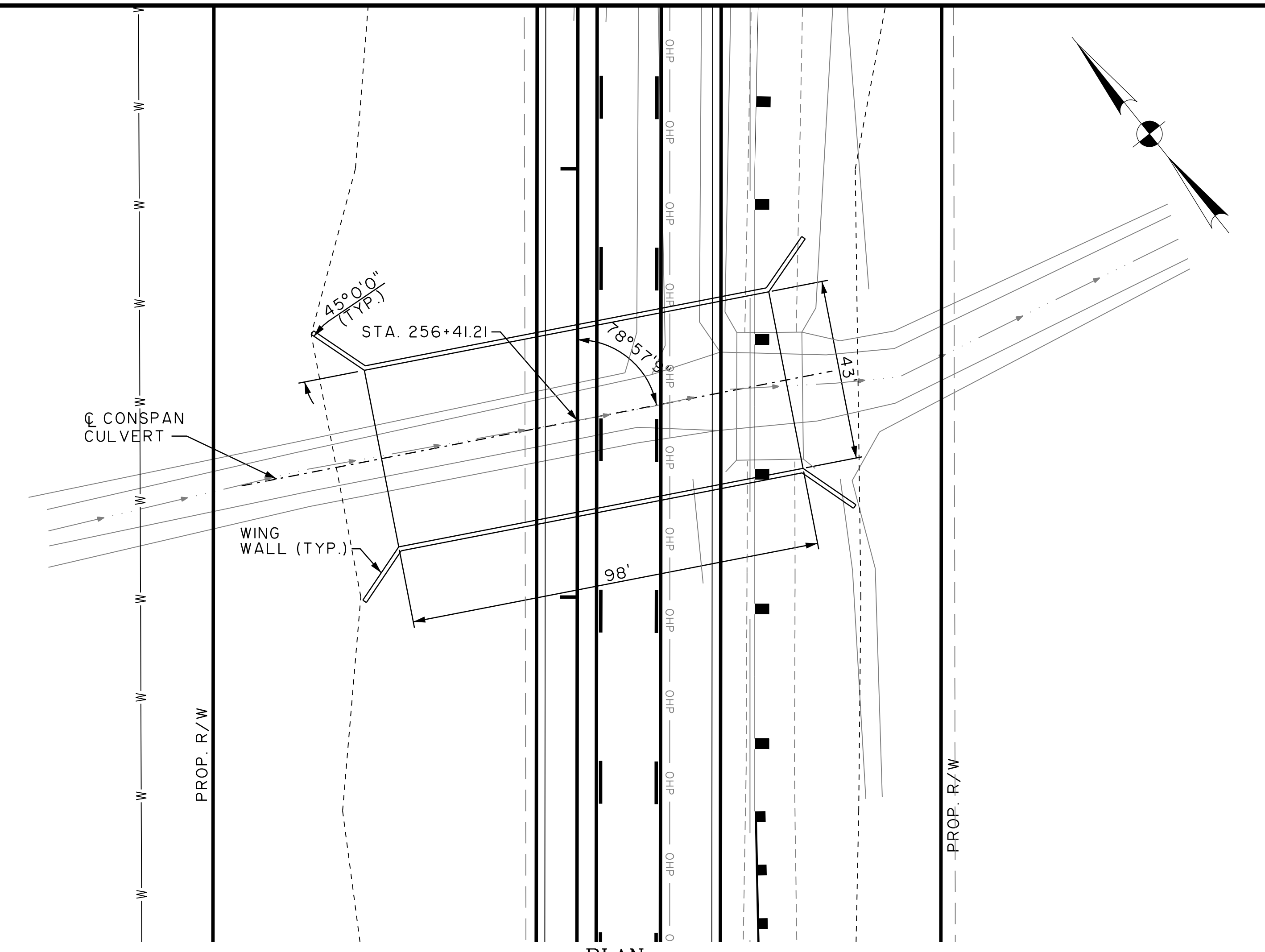
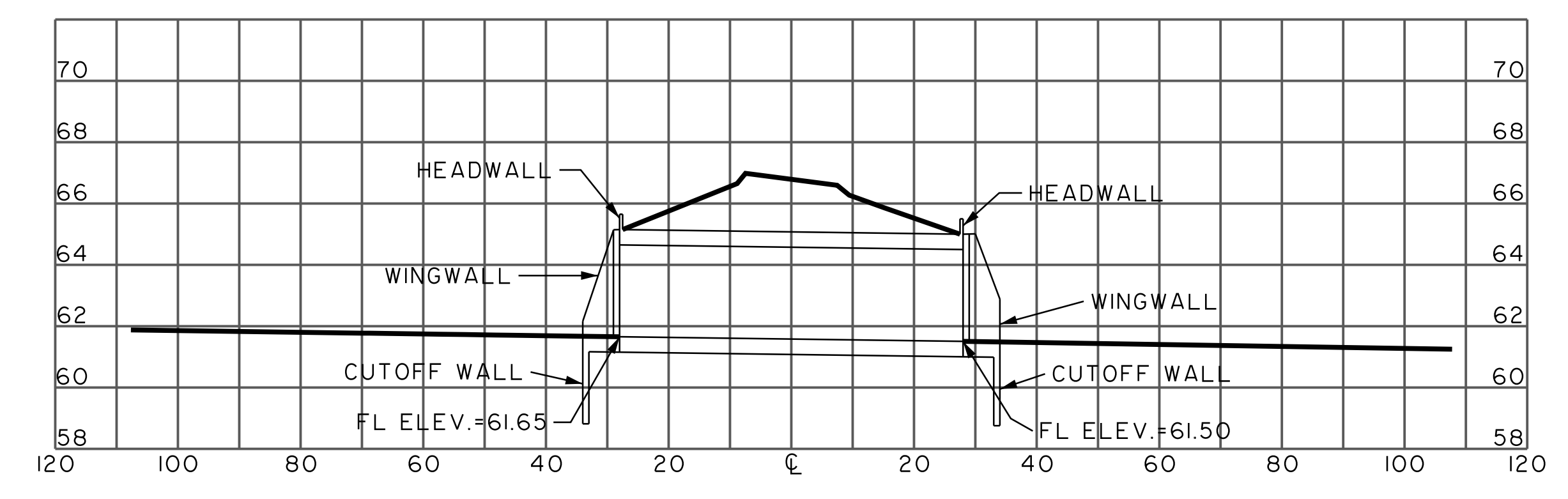
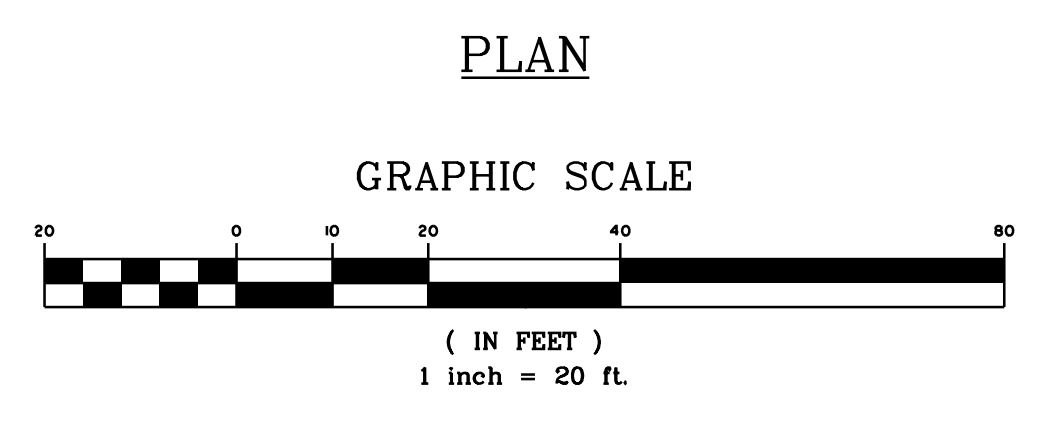
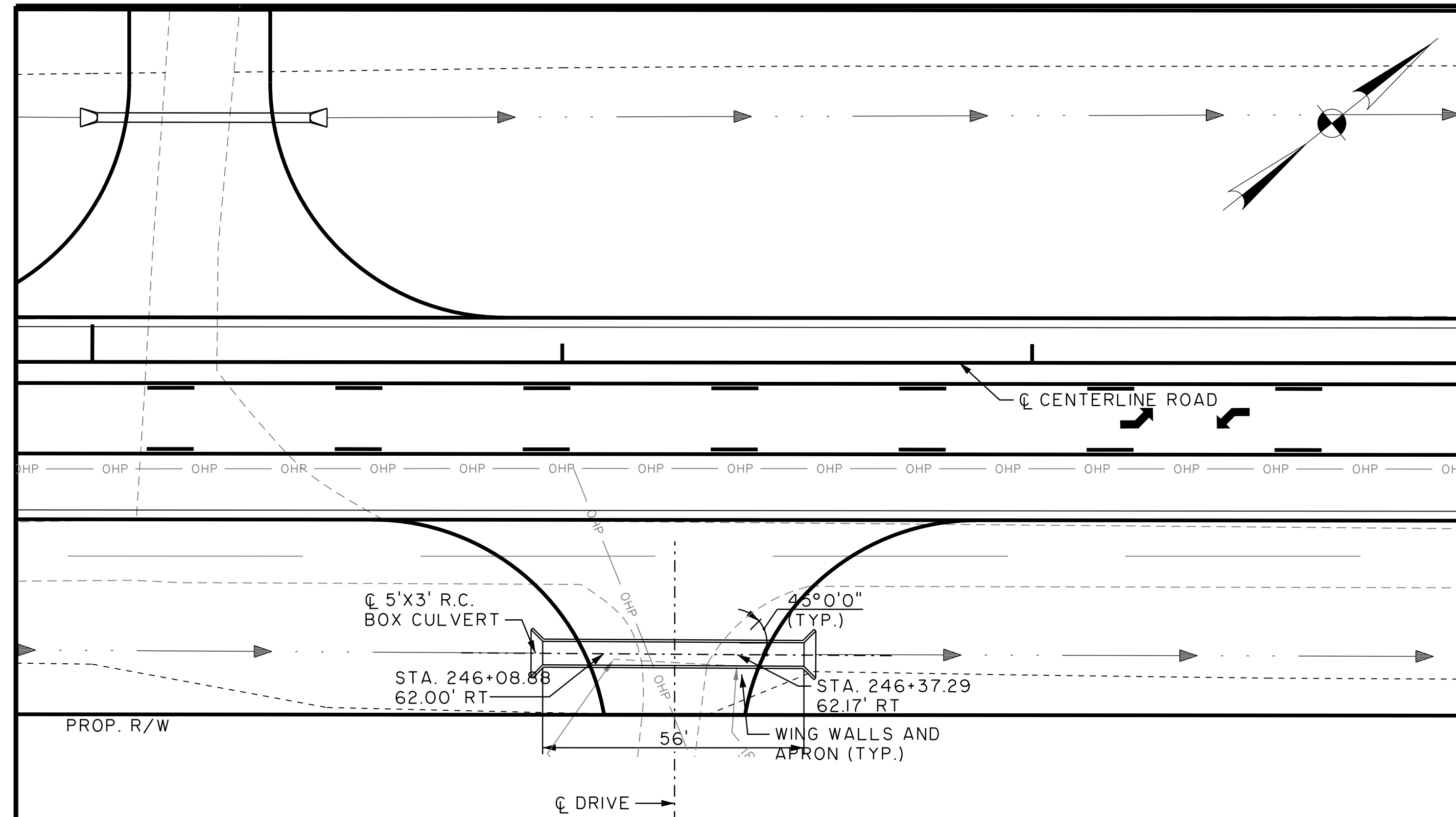
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BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
CENTERLINE ROAD
 ROADWAY STRUCTURE PLANS

JOB NO: J-25644.1005
 DATE: _____
 DRAWN: _____
 DESIGNED: _____
 REVIEWED: _____
 APPROVED: _____
 SCALE: AS NOTED

S03



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CENTERLINE ROAD

ROADWAY STRUCTURE PLANS

JOB NO: J-25644.1005
DATE: _____
DRAWN: _____
DESIGNED: _____
REVIEWED: _____
APPROVED: _____
SCALE: AS NOTED

S04

NOTES

- GENERAL NOTES**
- THIS BRIDGE HAS BEEN DESIGNED FOR GENERAL SITE CONDITIONS. THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR THE STRUCTURE'S SUITABILITY TO THE EXISTING SITE CONDITIONS AND FOR THE HYDRAULIC EVALUATION - INCLUDING SCOUR AND CONFIRMATION OF SOIL CONDITIONS.
 - PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.
 - ONLY CONTECH ENGINEERED SOLUTIONS LLC, THE CONSPAN® APPROVED PRECASTER IN SOUTH CAROLINA MAY PROVIDE THE STRUCTURE DESIGNED IN ACCORDANCE WITH THESE PLANS.
 - THE USE OF ANOTHER PRECAST STRUCTURE WITH THE DESIGN ASSUMPTIONS USED FOR THE CONSPAN® STRUCTURE MAY LEAD TO SERIOUS DESIGN ERRORS. USE OF ANY OTHER PRECAST STRUCTURE WITH THIS DESIGN AND DRAWINGS VOIDS ANY CERTIFICATION OF THIS DESIGN AND WARRANTY. CONTECH ENGINEERED SOLUTIONS, LLC ASSUMES NO LIABILITY FOR DESIGN OF ANY ALTERNATE OR SIMILAR TYPE STRUCTURES.
 - ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA, EMPLOYED BY THE PRECAST CONCRETE BRIDGE SUPPLIER, ARE SUBMITTED TO THE ENGINEER 2 WEEKS PRIOR TO THE BID DATE FOR REVIEW AND APPROVAL.
 - ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT THE ALTERNATE DESIGN DOES NOT REDUCE THE HYDRAULIC OPENINGS OF THE STRUCTURE AS SHOWN ON THE DRAWINGS. AT A MINIMUM THE ALTERNATE STRUCTURE MUST PROVIDE THE SAME OR LARGER SPAN AND RISE AS THE STRUCTURE SHOWN ON THE DRAWINGS.
 - THE PRECAST ARCH SUPPLIER MUST ATTEND THE PRE-BID MEETING, IF ONE IS HELD.
 - SUPPLIER OF PROPOSED ALTERNATES TO A CONSPAN® BRIDGE SYSTEM MUST SUBMIT AT LEAST TWO (2) INDEPENDENTLY VERIFIED FULL SCALE LOAD TESTS THAT CONFIRM THE PROPOSED DESIGN METHODOLOGY OF THE THREE SIDED ARCH STRUCTURE(S). THE PROPOSED ALTERNATE, UPON SATISFACTORY CONFIRMATION OF DESIGN METHODOLOGY, MAY BE CONSIDERED AN ACCEPTABLE ALTERNATE.
 - PROPOSED ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT THE PRECAST CONCRETE BRIDGE STRUCTURES ARE PROVIDED BY A SUPPLIER THAT HAS A MINIMUM OF TWO (2) REGISTERED PROFESSIONAL ENGINEERS ON STAFF THAT ARE DEDICATED TO THE DESIGN OF THESE TYPES OF STRUCTURES. SUPPLIER MUST PROVIDE THESE NAMES, P.E. LICENSE NUMBERS AND DATES OF HIRE, AT TIME OF ALTERNATE SUBMITTAL.

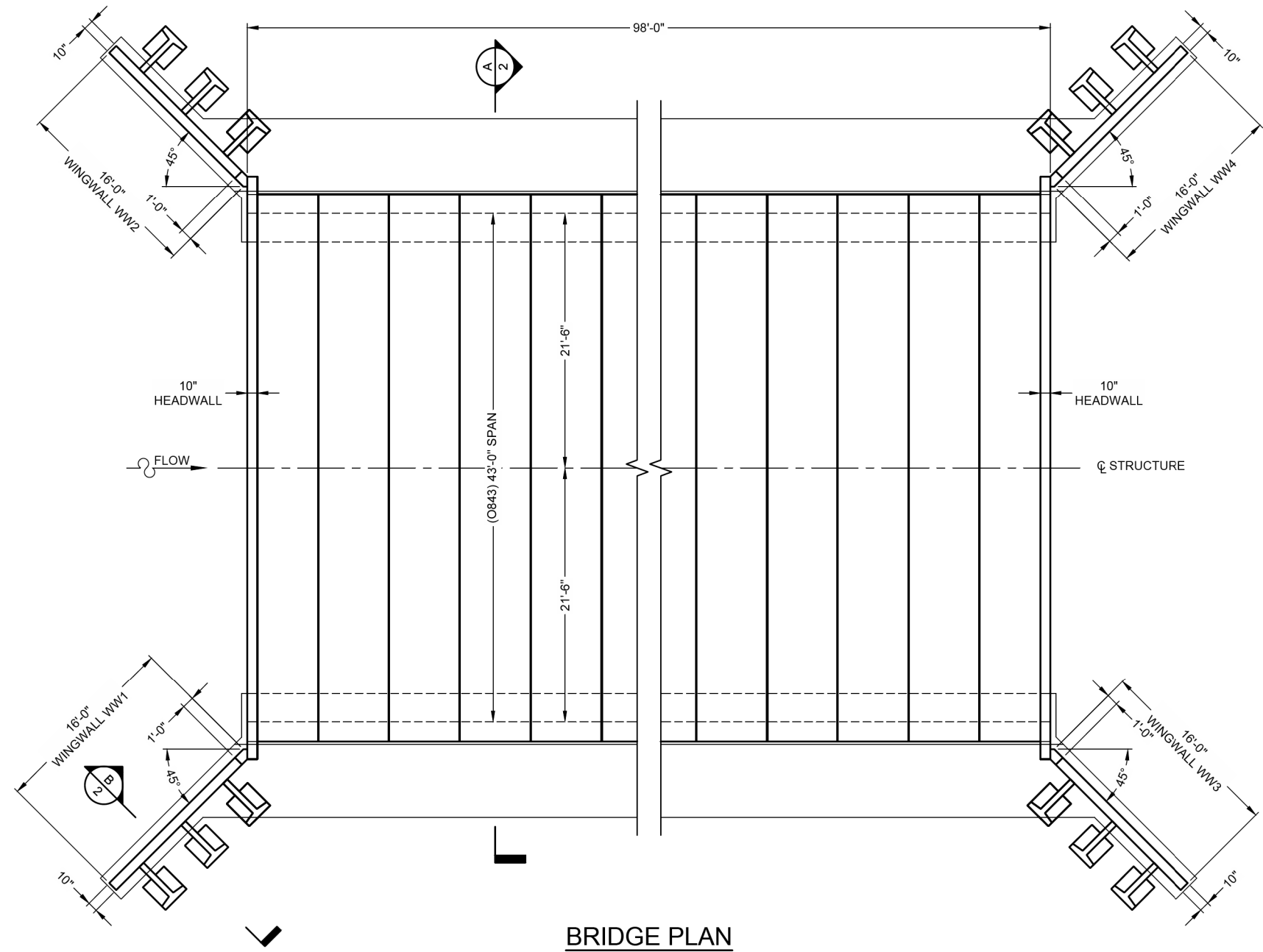
DESIGN DATA

DESIGN LOADING:
 BRIDGE UNITS HL-93
 HEADWALLS: EARTH PRESSURE ONLY
 WINGWALLS: EARTH PRESSURE ONLY
 DESIGN FILL HEIGHT: 1'-0" MIN TO 4'-0" MAX
 FROM TOP OF CROWN TO TOP OF PAVEMENT
 DESIGN METHOD: LOAD RESISTANCE FACTOR DESIGN PER AASHTO LRFD SPECIFICATION
 NOMINAL BEARING RESISTANCE: 4000 PSF *
 FACTORED BEARING RESISTANCE: 4000 PSF *

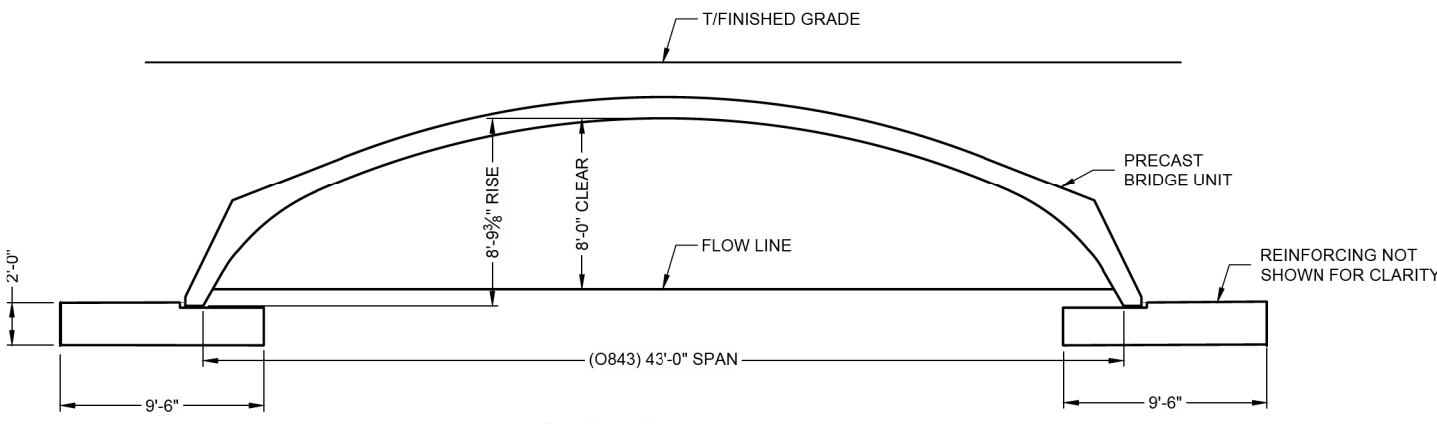
*FOUNDATION EXCAVATION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THIS PROJECT PREPARED BY S&ME DATED NOVEMBER 19, 2015

MATERIALS

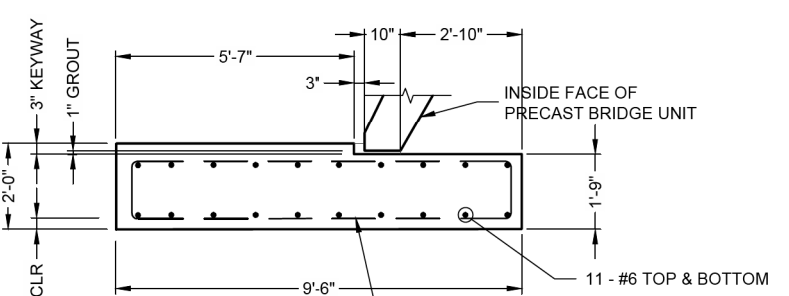
PRECAST UNITS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CONSPAN® SPECIFICATIONS. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. REINFORCING STEEL FOR FOOTINGS SHALL CONFORM TO ASTM A615 OR A996-GRADE 60.



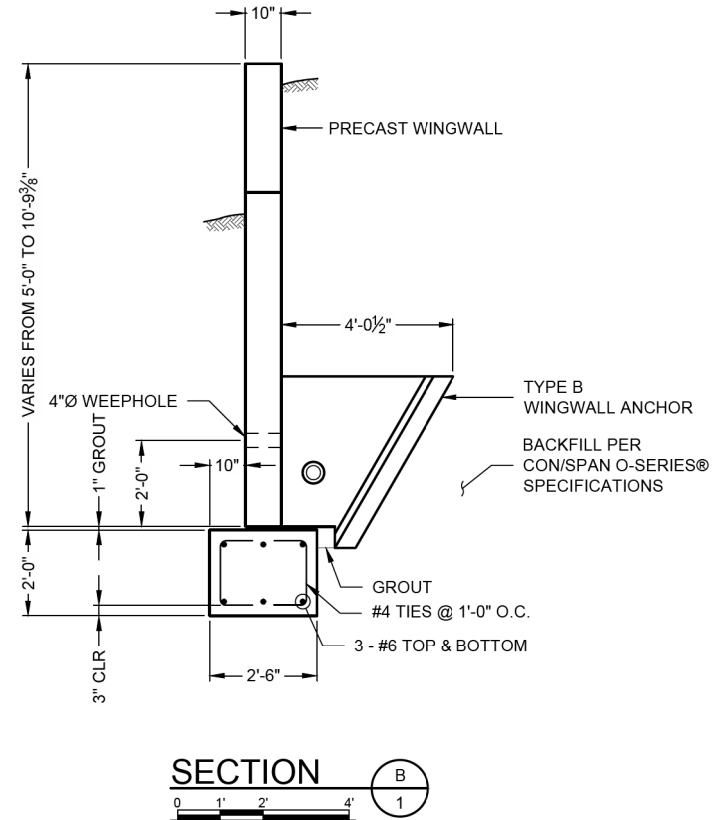
BRIDGE PLAN



SECTION A-A



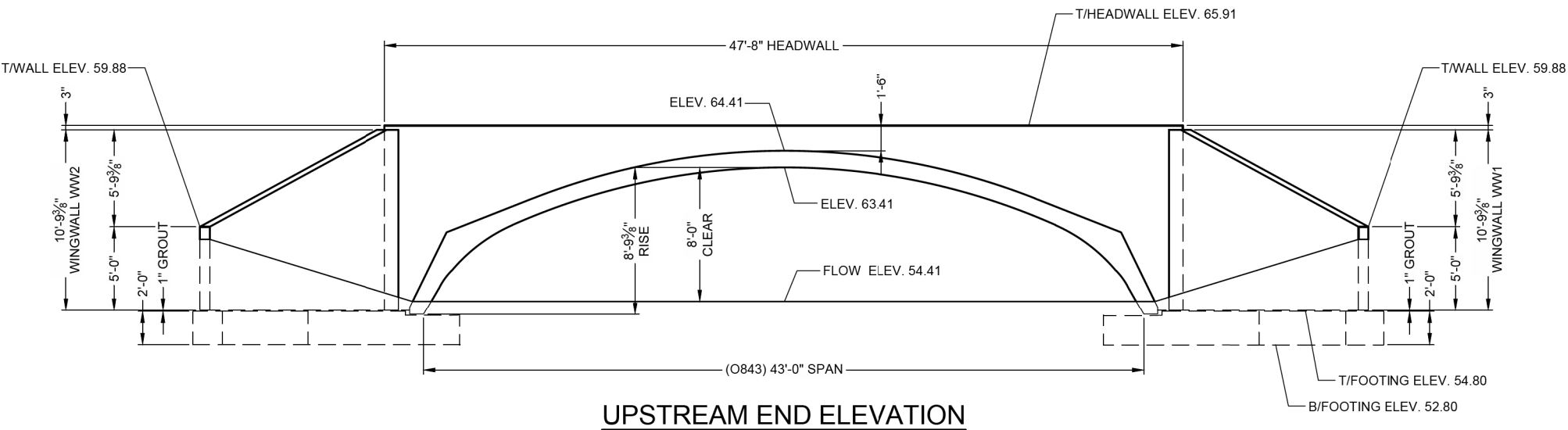
DETAIL C-C



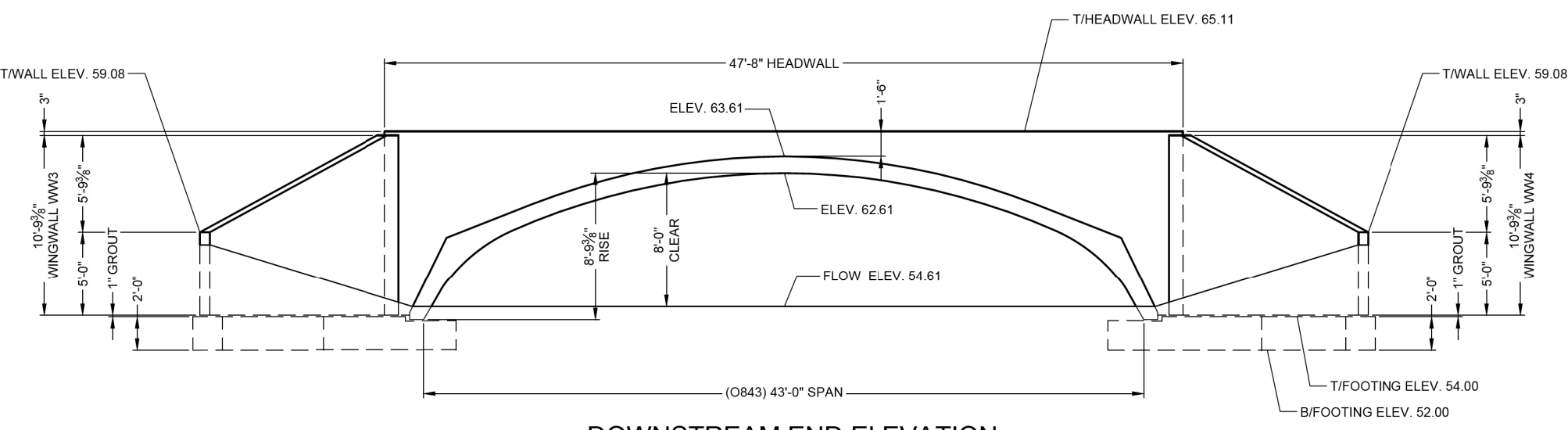
SECTION B-B

				PROJECT NO. 931172 SHEET NO. 001 DATE 11/13/2015	
8025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 900-338-1122 513-645-7900 513-645-7993 FAX		www.conteches.com PROPOSAL DRAWINGS		CENTERLINE ROAD IMPROVEMENTS BERKELEY COUNTY, SOUTH CAROLINA	
DESIGNED	SP	DRAWN	JCH	CHECKED	APPROVED
SHEET NO. 1 OF 5					

				PROJECT NO. 931172 SHEET NO. 001 DATE 11/13/2015	
8025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 900-338-1122 513-645-7900 513-645-7993 FAX		www.conteches.com PROPOSAL DRAWINGS		CENTERLINE ROAD IMPROVEMENTS BERKELEY COUNTY, SOUTH CAROLINA	
DESIGNED	SP	DRAWN	JCH	CHECKED	APPROVED
SHEET NO. 2 OF 5					



UPSTREAM END ELEVATION



DOWNSTREAM END ELEVATION

				PROJECT NO. 931172 SHEET NO. 001 DATE 11/13/2015	
8025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 900-338-1122 513-645-7900 513-645-7993 FAX		www.conteches.com PROPOSAL DRAWINGS		CENTERLINE ROAD IMPROVEMENTS BERKELEY COUNTY, SOUTH CAROLINA	
DESIGNED	SP	DRAWN	JCH	CHECKED	APPROVED
SHEET NO. 3 OF 5					



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BERKELEY COUNTY
 BERKELEY COUNTY, S.C.

CENTERLINE ROAD

ROADWAY STRUCTURE DETAILS

JOB NO:	J-25644.005
DATE:	
DRAWN:	
DESIGNED:	
REVIEWED:	
APPROVED:	
SCALE:	AS NOTED

S05

1. SITE DESCRIPTION
A. PROJECT DESCRIPTION
1. PROJECT AREA 95.3 ACRES
2. AREA DISTURBED 83.7 ACRES
3. PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION 0 %
4. AVERAGE RUNOFF COEFFICIENT BEFORE CONSTRUCTION 78 CN
5. PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION 27 %
6. AVERAGE RUNOFF COEFFICIENT AFTER CONSTRUCTION 91 CN

B. DESCRIPTION OF CONSTRUCTION ACTIVITY
WORK CONSISTS OF CLEARING, GRADING, DRAINAGE IMPROVEMENTS, GRASSING, AND INSTALLATION OF ROADWAY.

C. RUNOFF DATA
C.1. SOIL CLASSIFICATIONS: (HSG) B/D, C, & C/D
C.2. LAND USE(S): TRANSPORTATION

D. RECEIVING WATERS
D.1. CLOSEST RECEIVING WATERS: TIMOTHY CREEK
D.2. ULTIMATE RECEIVING WATERS: FOUR HOLE SWAMP

E. FLOOD
E.1. FEMA FLOOD ZONE(S): X
E.2. FEMA FLOOD INSURANCE MAP(S): 4501SC, 03500 DATED 10/16/03

II. CONTROL MEASURES
I. EROSION AND SEDIMENT CONTROLS
PRIOR TO START OF CONSTRUCTION, ALL PERIMETER SILT FENCE WILL BE INSTALLED AS SHOWN ON THE PLANS.

11. CLEARING
11.1. AS CLEARING IS COMPLETED, ADDITIONAL SILT FENCE WILL BE INSTALLED WHERE NECESSARY, SUCH AS POINTS WHERE FLOWS BECOME CHANNELIZED, AND OTHER POINTS WHERE EXCESSIVE RUNOFF VELOCITIES MAY OCCUR.

11.2. INSTALL CONSTRUCTION ENTRANCES / EXITS BEFORE BEGINNING CLEARING
11.3. CONSTRUCTION DELAYS IN ANY ONE AREA GREATER THAN 14 DAYS PRIOR TO START OF ROUGH GRADING WILL MANDATE STABILIZATION PROCEDURES
ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

11.4. MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE THE AREA OF DISTURBANCE. RETAIN AND PROTECT TREES TO ENHANCE FUTURE LANDSCAPING OPPORTUNITIES AND REDUCE RAINFALL IMPACT.
11.5. INSTALL ALL SEDIMENT CONTROL PRACTICES PRIOR TO ANY UP-SLOPE SOIL DISTURBING ACTIVITIES.

11.6. PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE AREAS DISTURBED AT ONE TIME. THIS WILL ALSO ALLOW COMPLETED AREAS TO BE STABILIZED AND RE-VEGETATED BEFORE DISTURBING ADJACENT SITES. THE NEED FOR TEMPORARY EROSION CONTROL MEASURES MAY BE AVOIDED BY COMPLETING A PHASE AND INSTALLING PERMANENT EROSION CONTROL MEASURES WHEN THE FINAL GRADE IS ATTAINED.

11.7. MAINTAIN AND PROTECT ALL NATURAL WATERWAYS. RETAIN AT LEAST A 50-FOOT UNDISTURBED BUFFER OF NATURAL VEGETATION ALONG ALL WATERWAYS TO FILTER OUT SEDIMENT AND OTHER POLLUTANTS. MAINTAIN A 50-FOOT UNDISTURBED BUFFER AROUND SENSITIVE WATERWAYS.
11.8. INSTALL SILT FENCE ON THE DOWN-SLOPE PERIMETER OF ALL DISTURBED AREAS PRIOR TO ANY SOIL DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRUBBING). SILT FENCE CAN TREAT A MAXIMUM OF 100 SQUARE FEET PER LINEAR FOOT OF FENCE. INSTALL SILT FENCE IN SHORTER REACHES ON THE CONTOUR WITH EACH END TURNED UP-SLOPE.

11.9. IN AREAS OF CONCENTRATED FLOW INSTALL ALL ROCK CHECK DAMS, TRIANGULAR DIKES, BIO ROLL BLANKETS, OR ROCK SOCKS TO SLOW RUNOFF AND TRAP SEDIMENT.
11.10. USE TEMPORARY SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.
11.11. CONSTRUCT SEDIMENT BASIN AS ILLUSTRATED ON PLANS.

12. ROUGH GRADING
12.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROUGH GRADING, DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.
12.2. ALL AREAS NOT SUBJECT TO FURTHER CONSTRUCTION (DRAINAGE, SANITARY SEWER, ROADS, WATER DISTRIBUTION SYSTEMS, OR STORM WATER FACILITIES SHALL BE GRASSED WITH A PERMANENT COVER.
12.3. COVER ANY STOCK PILED TOPSOIL WITH PILED ASTIC (OR OTHER IMPERVIOUS COVERING) OR USE A TEMPORARY SEED MIX. USE STOCKPILED TOPSOIL AS EARTHEN BERMS TO SERVE AS TEMPORARY SEDIMENT BASINS.

13. DRAINAGE
13.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING DRAINAGE INSTALLATION.
13.2. CONSTRUCTION DRAINAGE WILL BE ROUTED THROUGH LAKES, WHICH WILL ACT AS SEDIMENT BASINS OR OTHER ACCEPTABLE SEDIMENT BASINS/TRAPS.
13.3. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

14. CONSTRUCTION OF ROADS
14.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROAD CONSTRUCTION.
14.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

15. GRASSING
15.1. ALL EXISTING CONTROLS WILL BE MAINTAINED UNTIL GRASSING IS ESTABLISHED
15.2. ANY AREAS THAT ERODE OR WHERE GRASS DOES NOT ESTABLISH ITSELF SHALL BE RE-GRADED AND RE-GRASSED.

2. STORM WATER MANAGEMENT
RUNOFF FROM THIS PROJECT WILL DISCHARGE INTO A STORM WATER MANAGEMENT SYSTEM. TREATMENT WILL OCCUR IN STORM WATER DETENTION PONDS.

3. OTHER CONTROLS
3.1. WASTE DISPOSAL
3.1.1. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO ANY RECEIVING WATERS.
3.1.2. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.
3.1.3. THIS PLAN SHALL COMPLY WITH STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
3.1.4. DUST CONTROL ON DISTURBED AREAS - CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE AND HAUL ROUTES. THE PURPOSE OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

3.2. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

3.3. NON-STORM WATER DISCHARGES
THE FOLLOWING NON-STORMWATER DISCHARGES MUST BE PROTECTED FROM CAUSING POLLUTION OR EROSION:
3.3.1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES
3.3.2. FIRE HYDRANT FLUSHINGS
3.3.3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
3.3.4. WATER USED TO CONTROL DUST
3.3.5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS
3.3.6. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS
3.3.7. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
3.3.8. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE
3.3.9. UNCONTAMINATED GROUND WATER OR SPRING WATER
3.3.10. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS
3.3.11. UNCONTAMINATED EXCAVATION DEWATERING
3.3.12. LANDSCAPE IRRIGATION
3.3.13. DECHLORINATED SWIMMING POOL DISCHARGES.

3.4. MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE THE AREA OF DISTURBANCE. RETAIN AND PROTECT TREES TO ENHANCE FUTURE LANDSCAPING OPPORTUNITIES AND REDUCE RAINFALL IMPACT.
3.4.1. MAINTAIN AND PROTECT ALL NATURAL WATERWAYS. RETAIN AT LEAST A 50-FOOT UNDISTURBED BUFFER OF NATURAL VEGETATION ALONG ALL WATERWAYS TO FILTER OUT SEDIMENT AND OTHER POLLUTANTS. MAINTAIN A 50-FOOT UNDISTURBED BUFFER AROUND SENSITIVE WATERWAYS.
3.4.2. INSTALL SILT FENCE ON THE DOWN-SLOPE PERIMETER OF ALL DISTURBED AREAS PRIOR TO ANY SOIL DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRUBBING). SILT FENCE CAN TREAT A MAXIMUM OF 100 SQUARE FEET PER LINEAR FOOT OF FENCE. INSTALL SILT FENCE IN SHORTER REACHES ON THE CONTOUR WITH EACH END TURNED UP-SLOPE.
3.4.3. IN AREAS OF CONCENTRATED FLOW INSTALL ALL ROCK CHECK DAMS, TRIANGULAR DIKES, BIO ROLL BLANKETS, OR ROCK SOCKS TO SLOW RUNOFF AND TRAP SEDIMENT.
3.4.4. USE TEMPORARY SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.
3.4.5. CONSTRUCT SEDIMENT BASIN AS ILLUSTRATED ON PLANS.

3.5. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

3.6. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS

3.7. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

3.8. A COPY OF THE SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

3.9. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

3.10. MINIMIZE SOIL COMPACTION IN AREAS NOT UNDER PAVEMENTS AND /OR STRUCTURES AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

3.11. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING. WHEEL WASH WATER AND OTHER WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUAL OR BETTER TREATMENT PRIOR TO DISCHARGE.

3.12. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).

2. SILT FENCE
SILT FENCES WILL BE MONITORED DURING CONSTRUCTION. ANY SILT FENCE WHICH IS NOT FUNCTIONING PROPERLY WILL BE PROMPTLY REPAIRED. CLEAN OUT THE SILT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE OR REPLACE WITH FUNCTIONAL SILT FENCE WITHIN 24 HOURS. USE OF HOSES AND WATER TO FLUSH THE SEDIMENT INTO THE STORM INLETS IS UNACCEPTABLE.

3. SEDIMENTATION BASINS
SEDIMENTATION BASINS WHICH ARE AT 50% USED CAPACITY OR APPROACHING SUCH CAPACITY SHALL BE RE-EXCAVATED TO ORIGINAL DIMENSIONS AND THE SILT PROPERLY DISPOSED OF.

4. POROUS BAFFLES/RIP-RAP/EROSION CONTROL BLANKET/OUTLET STRUCTURE CONTROL MEASURES WHICH BEGIN TO DISINTEGRATE OR FUNCTION INEFFECTIVELY SHALL BE PROMPTLY REPLACED.

5. VEGETATION COVER
ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IS ITSELF DISTURBED SHALL IMMEDIATELY BE REPLACED.

6. CONSTRUCTION ENTRANCE
MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY MUD TRACKED ONTO THEM.

IV. INSPECTIONS
QUALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY CALENDAR WEEK. WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH DURING THE WARRANTY PERIOD.

2. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

3. A FORM SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES) AND WHETHER ANY DISCHARGES OCCURRED, LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE, LOCATION(S) OF BMPs THAT NEED REPAIR, LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION AND ANY CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO SWPPP NECESSARY AND IMPLEMENTATION DATES.

4. THE REPORT SHALL BE MAINTAINED AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. THE REPORT MUST BE SIGNED AND SHALL CONTAIN A CERTIFICATION THAT THE SITE IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE NOTES PERMIT REFERENCED ABOVE. THE CONTRACTOR SHALL MAINTAIN THIS REPORT. THE REPORT SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

V. LONG TERM MAINTENANCE OF DRAINAGE AND STORM WATER MANAGEMENT SYSTEM
THE DRAINAGE SYSTEM WILL BE OWNED AND MAINTAINED BY BERKELEY COUNTY AFTER CONSTRUCTION IS COMPLETE.

VI. SC DHEC STANDARD NOTES
1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO GRASSING / HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:
2.1. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
2.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF SITE INSPECTIONS IDENTIFY BMP'S THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE BEFORE THE NEXT STORM EVENT WHENEVER PRACTICAL.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 AND SCRO0000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION IN AREAS NOT UNDER PAVEMENTS AND /OR STRUCTURES AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING. WHEEL WASH WATER AND OTHER WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUAL OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES ARE PROHIBITED:
16.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
16.2. WASTEWATER FROM WASHOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
16.3. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
16.4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF PERMIT SCRO0000 AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

VII. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES
1. THE IMPLEMENTATION OF THESE EROSION SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/ LANDSCAPING IS ESTABLISHED.

2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.

4. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

5. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A MAJOR STORM EVENT.

6. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING AND PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

7. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

8. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION, SEDIMENTATION, OR FLOODING ON THE SITE, ON DOWNSTREAM PROPERTIES, IN THE RECEIVING CHANNELS, OR IN ANY STORM WATER INLET. WHEN SITE DEWATERING, IF NECESSARY, WATER PUMPED FROM THE SITE, INCLUDING TRENCHES, SHALL BE TREATED BY ONE OF THE FOLLOWING:

8.1. TEMPORARY SEDIMENTATION BASINS
8.2. LANDSCAPING WITH PERMANENT VEGETATION
8.3. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED INTO ANY WATERS OF THE STATE.

9. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES ARE ALL UTILITIES THAT EXIST ON THE PROJECT IN AN ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UNDERGROUND OR OVERHEAD FACILITIES, EVEN IF THE UTILITY IS NOT SHOWN ON THE SITE DEVELOPMENT PLANS. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITIES PROTECTION CENTER TO COORDINATE THE MARKING OF EXISTING UTILITY LINES A MINIMUM OF 96 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.

10. THE CONTRACTOR SHALL FLUSH ALL INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPE (EXISTING AND PROPOSED) SHALL BE CONSIDERED PART OF THE COST FOR THE PROJECT.

11. EGRESS FROM THE SITE SHALL BE CONTROLLED SUCH THAT VEHICLES LEAVING THE SITE MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.

12. SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.

13. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT. EROSION AND SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AN INDEFINITE LENGTH OF TIME. ALL DISTURBED AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.

14. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, IS BASED UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND DOES NOT BIND THOMAS & HUTTON, OR THE OWNER IN ANY WAY.

15. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.

16. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE STORM WATER DISCHARGE.

17. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

18. LIME RATES AND ANALYSIS:
SEE SCODT SPECIFICATIONS.

19. MULCHING:
MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. SEE SCODT SPECIFICATIONS.

VIII. HOUSEKEEPING
THESE PERFORMANCE STANDARDS APPLY TO ALL SITES.

1. PETROLEUM PRODUCTS: INCLUDING OIL, GASOLINE, LUBRICANTS AND ASPHALTIC SUBSTANCES.
1.1. HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR ON MAINTENANCE AND FUELING VEHICLES
1.2. STORE IN COVERED AREAS PROTECTED WITH DIKES

2. SPILLS: PREVENTION AND RESPONSE.
2.1. STORE AND HANDLE MATERIALS TO PREVENT SPILLS
2.2. TIGHTLY SEALED CONTAINERS, NEAT AND SECURE STACKING, ETC.
2.3. REDUCE STORM WATER CONTACT IF SPILL OCCURS
2.3.1. CLEARLY POSTED.
2.3.2. CLEANUP PROCEDURES SHOULD BE READILY AVAILABLE
2.3.3. STOP THE SOURCE
2.3.4. CONTAIN THE SPILL

3. NON-STORM WATER DISCHARGES
THE FOLLOWING NON-STORMWATER DISCHARGES MUST BE PROTECTED FROM CAUSING POLLUTION OR EROSION:
3.1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES
3.2. FIRE HYDRANT FLUSHINGS
3.3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
3.4. WATER USED TO CONTROL DUST
3.5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS
3.6. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS
3.7. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
3.8. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE
3.9. UNCONTAMINATED GROUND WATER OR SPRING WATER
3.10. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS
3.11. UNCONTAMINATED EXCAVATION DEWATERING
3.12. LANDSCAPE IRRIGATION
3.13. DECHLORINATED SWIMMING POOL DISCHARGES.

4. CONSTRUCTION WASTES: DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING SUPPLIES, ETC.
4.1. SELECT A DESIGNATED WASTE COLLECTION AREA
4.2. PROVIDE LIDS FOR WASTE CONTAINERS
4.3. WHEN POSSIBLE LOCATE CONTAINERS IN COVERED AREA
4.4. MAINTAIN CONSISTENT REMOVAL SCHEDULE FOR WASTE

5. PESTICIDES: REDUCE THE AMOUNT OF PESTICIDES AVAILABLE FOR CONTACT WITH STORM WATER.
5.1. STORE IN A DRY COVERED AREA
5.2. INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS
5.3. STRICTLY FOLLOW RECOMMENDED APPLICATION RATES

6. FERTILIZERS AND DETERGENTS: REDUCE THE AMOUNT OF FERTILIZERS AND DETERGENTS AVAILABLE FOR CONTACT WITH STORM WATER.
6.1. LIMIT APPLICATION OF FERTILIZERS TO THE MINIMUM NEEDED
6.2. APPLY MORE FREQUENTLY BUT AT LOWER APPLICATION RATES
6.3. LIMIT USE OF DETERGENTS ON-SITE
6.4. DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM
6.5. MAINTAIN STRUCTURAL AND VEGETATIVE BMP'S
6.6. APPLY ACCORDING TO SOIL TEST RECOMMENDATIONS PRIOR TO SEEDING.

IX. GRASSING NOTES
1. SEED: SEE SCODT SPECIFICATIONS.

4. MISCELLANEOUS:
4.1. PERMANENT SEEDING SHALL COVER ALL DISTURBED AREA NOT TO BE COVERED BY LANDSCAPE PLANTING BEDS, STRUCTURE, OR PAVEMENT.
4.2. SEED ALL DISTURBED AREAS WITHIN SEVEN DAYS OF FINAL GRADING AND TEMPORARY SEED/MULCH ALL AREAS THAT WILL BE LEFT INACTIVE FOR MORE THAN FOURTEEN (14) DAYS.
4.3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED
4.4. CENTPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER
4.5. IF GRASSING OCCURS DURING A MONTH REQUIRING TEMPORARY COVER, THE CONTRACTOR SHALL APPLY PERMANENT COVER (IN ADDITION TO THE TEMPORARY COVER) AT THE APPROPRIATE TIME AT NO ADDITIONAL COST. THE CONTRACTOR MUST ACHIEVE A STRAND OF PERMANENT GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY 10 SF.

X. PERMANENT STABILIZATION
NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. IF NECESSARY, AREAS MUST BE RE-WOODED AND STABILIZED. IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT, ONE OR MORE OF THE FOLLOWING MAY APPLY TO THE SITE.

4.1. SEEDED AREAS
FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

4.2. SODDED AREAS
FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE APPROVED MULCH MATERIAL.

4.3. PERMANENT MULCH
FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL.

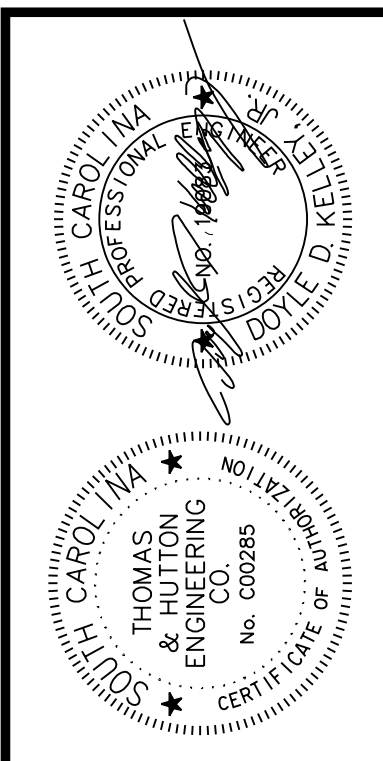
4.4. RIPRAP
FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF AN APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP.

4.5. DITCHES, CHANNELS, AND SWALES
FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL-GRADED RIPRAP LINING, OR WITH ANOTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN CUTTING OF THE CHANNEL.

XI. FERTILIZER REQUIREMENTS
1. TEMPORARY SEEDING FERTILIZER
SEE SCODT SPECIFICATIONS.

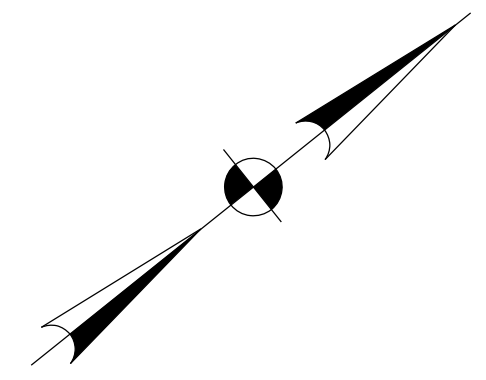
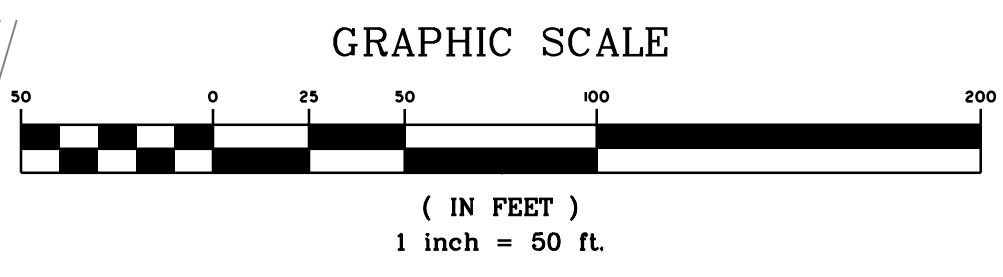
2. PERMANENT SEEDING FERTILIZER
SEE SCODT SPECIFICATIONS.

XII. SWPP PREPARER CERTIFICATION
I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCRO0000.

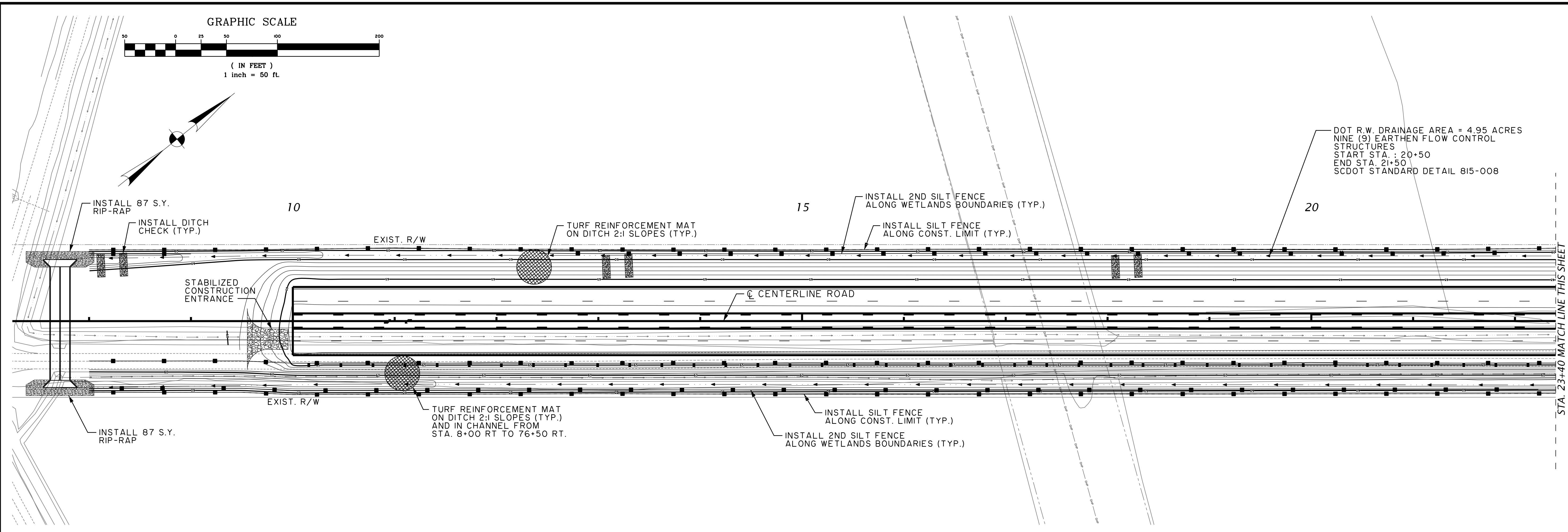


NO.	REVISIONS	BY	DATE

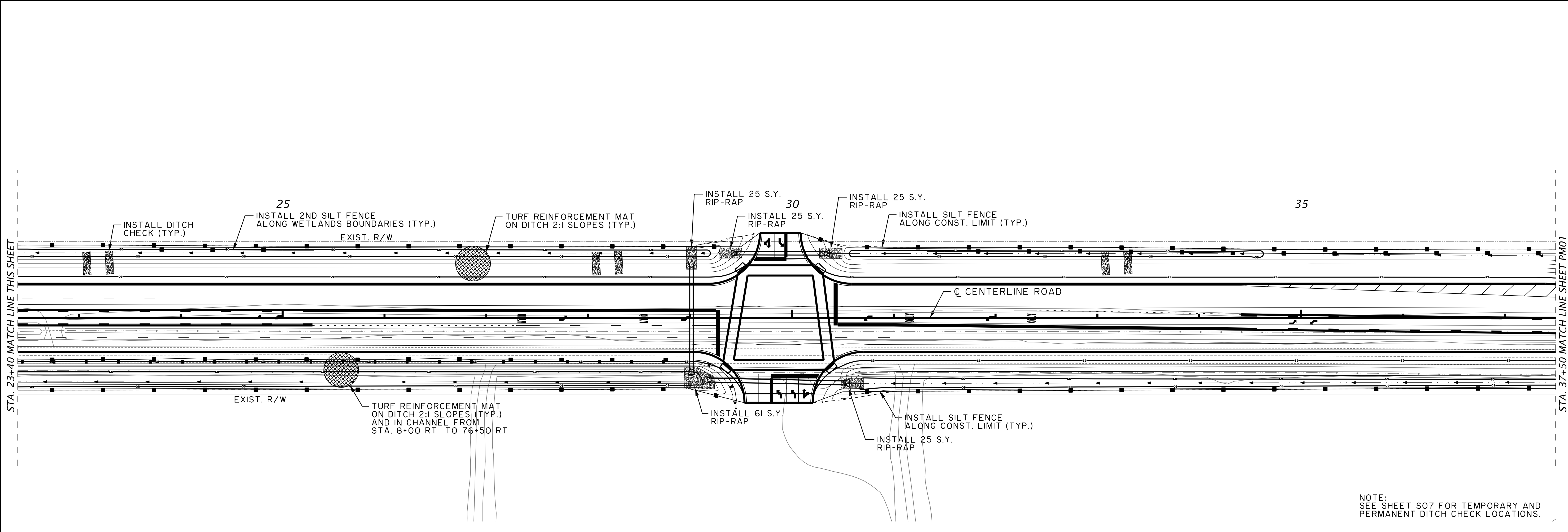
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DOT R.W. DRAINAGE AREA = 4.95 ACRES
 NINE (9) EARTHEN FLOW CONTROL
 STRUCTURES
 START STA. : 20+50
 END STA. 21+50
 SCDOT STANDARD DETAIL 815-008

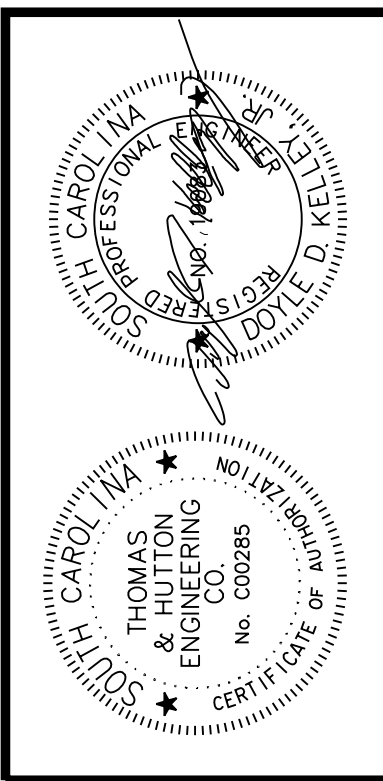


STA. 23+40 MATCH LINE THIS SHEET



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BERKELEY COUNTY
 BERKELEY COUNTY, S.C.
CENTERLINE ROAD
 EROSION CONTROL PLAN

JOB NO: J-25644.1005
 DATE: _____
 DRAWN: _____
 DESIGNED: _____
 REVIEWED: _____
 APPROVED: _____
 SCALE: AS NOTED

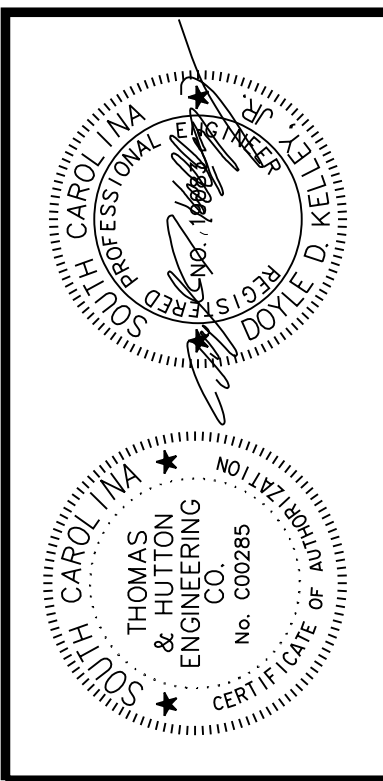
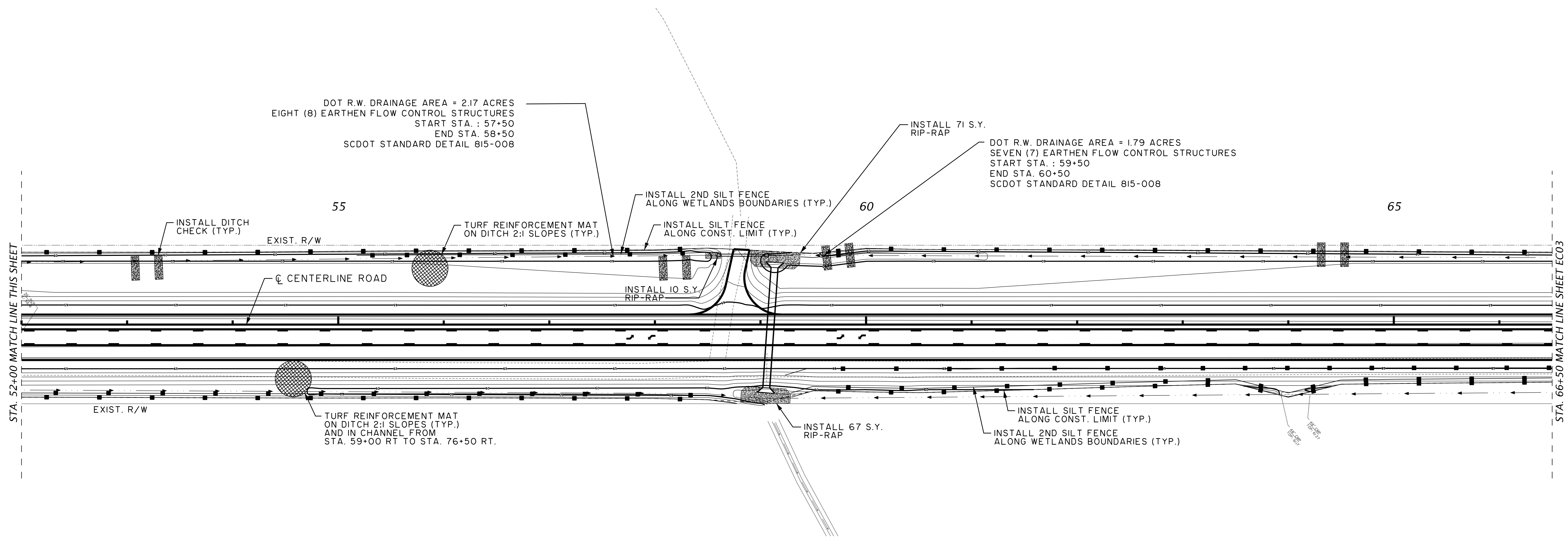
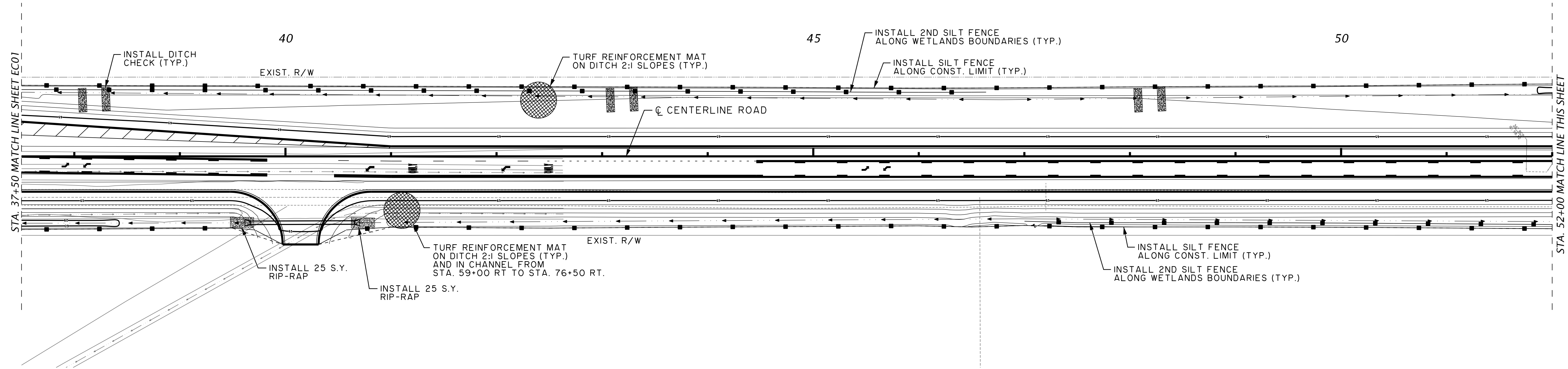
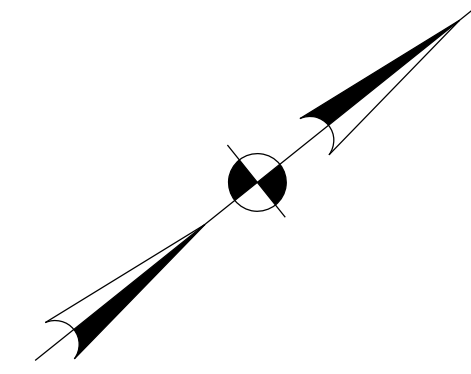
NOTE:
 SEE SHEET S07 FOR TEMPORARY AND
 PERMANENT DITCH CHECK LOCATIONS.

EC01

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



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CENTERLINE ROAD
EROSION CONTROL PLAN

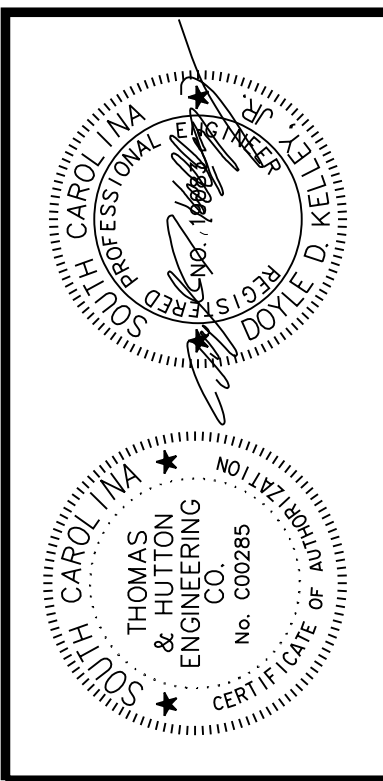
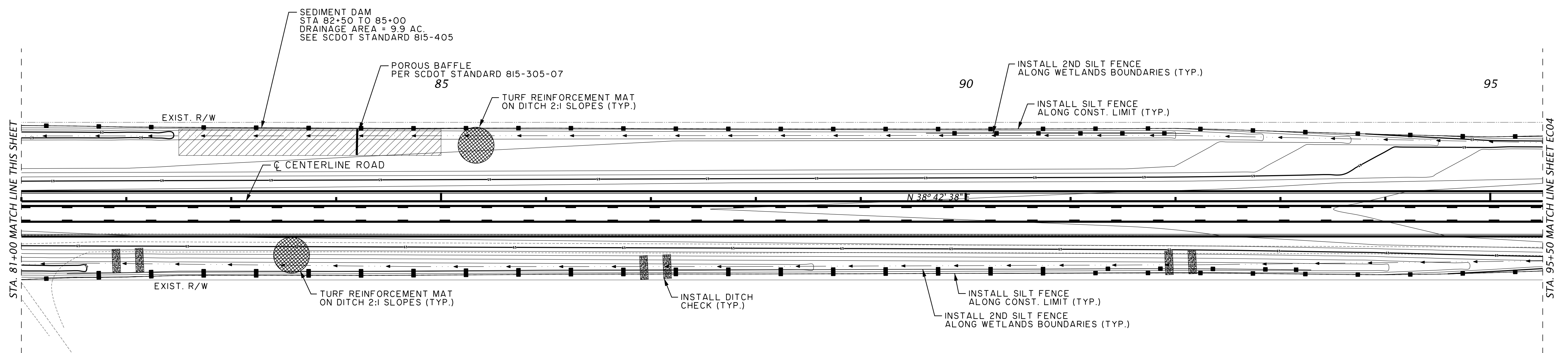
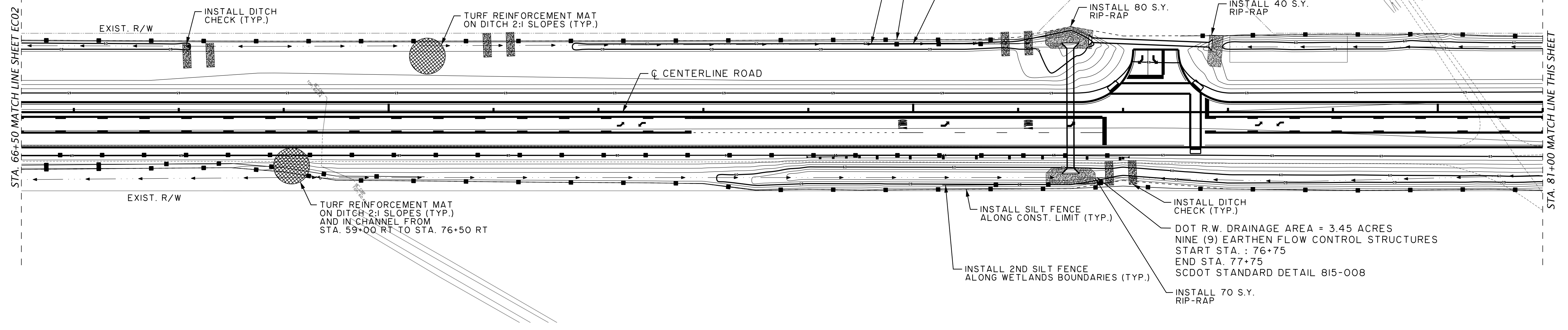
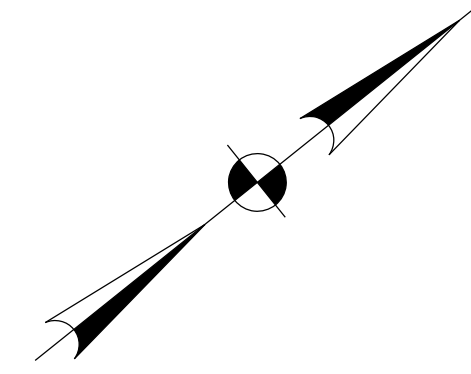
JOB NO: J-25644.0005
DATE: _____
DRAWN: _____
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APPROVED: _____
SCALE: AS NOTED

EC02

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



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CENTERLINE ROAD
EROSION CONTROL PLAN

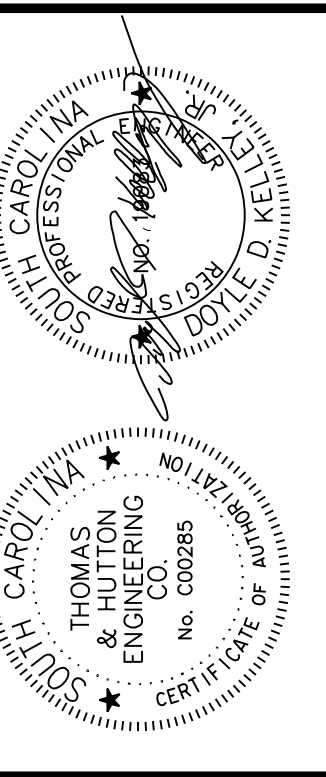
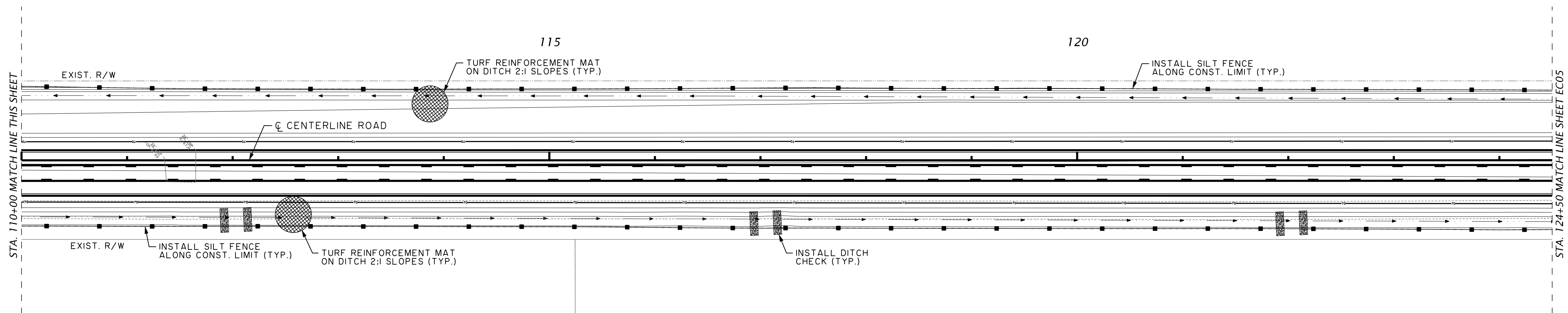
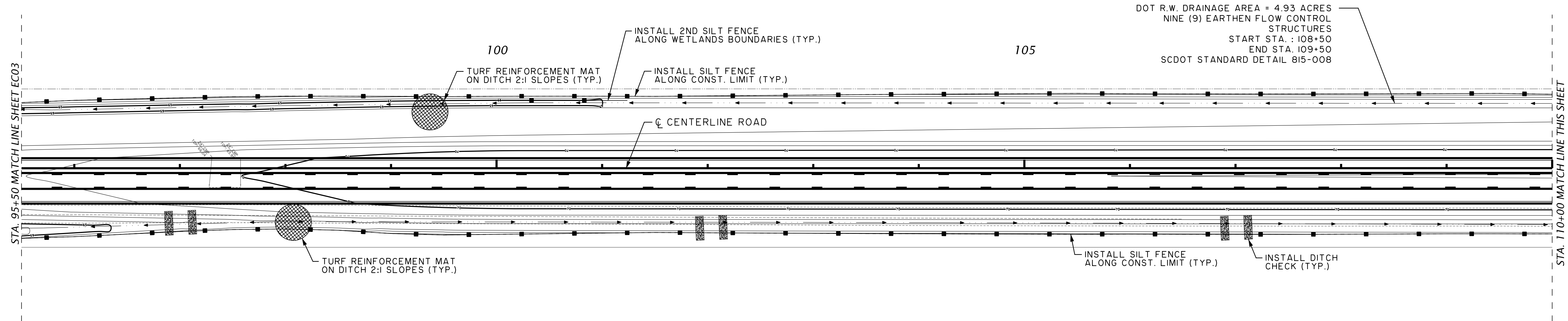
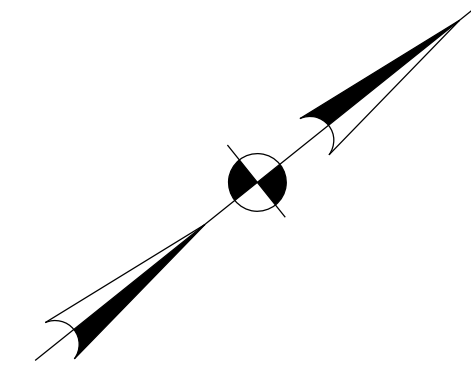
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DATE: _____
DRAWN: _____
DESIGNED: _____
REVIEWED: _____
APPROVED: _____
SCALE: AS NOTED

EC03

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



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EROSION CONTROL PLAN

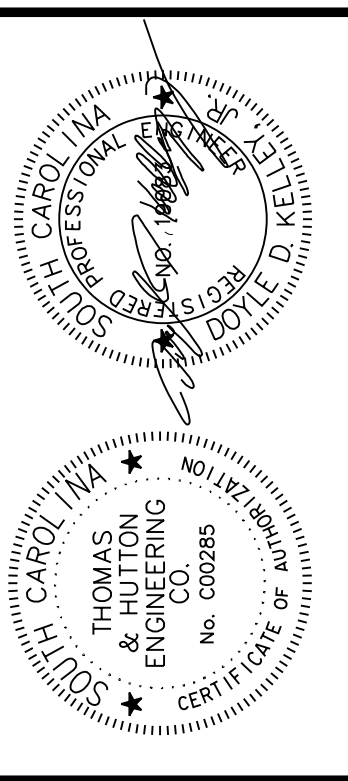
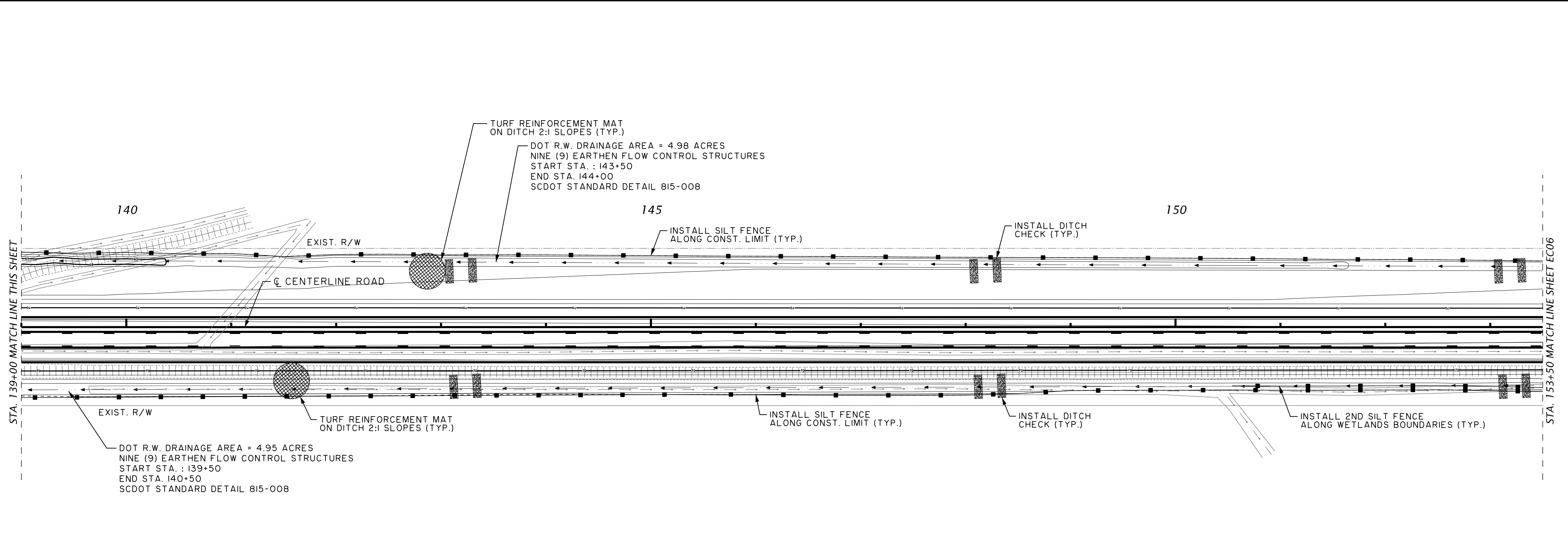
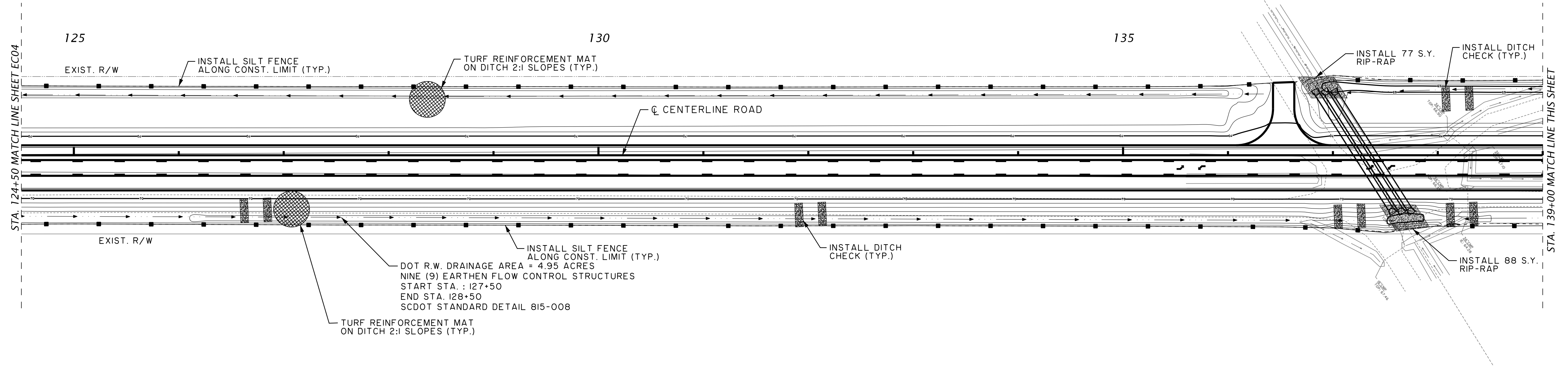
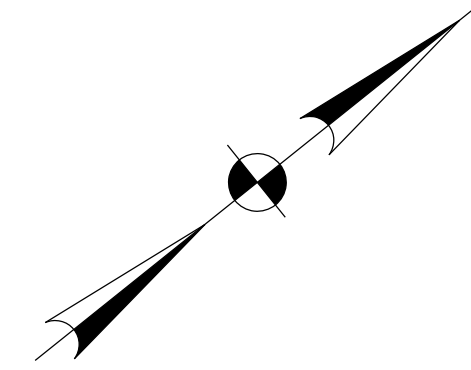
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DESIGNED: _____
REVIEWED: _____
APPROVED: _____
SCALE: AS NOTED

EC04

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



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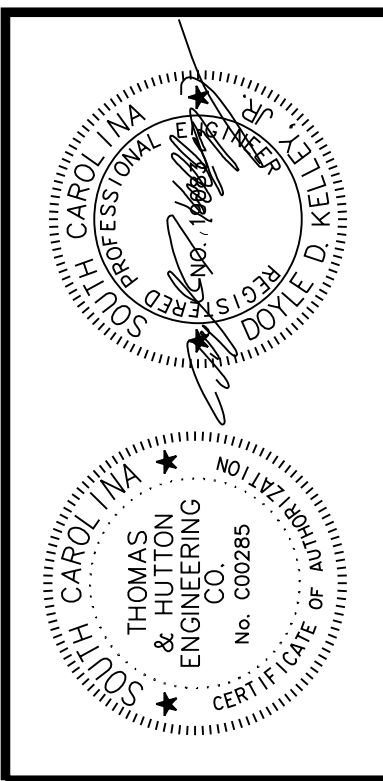
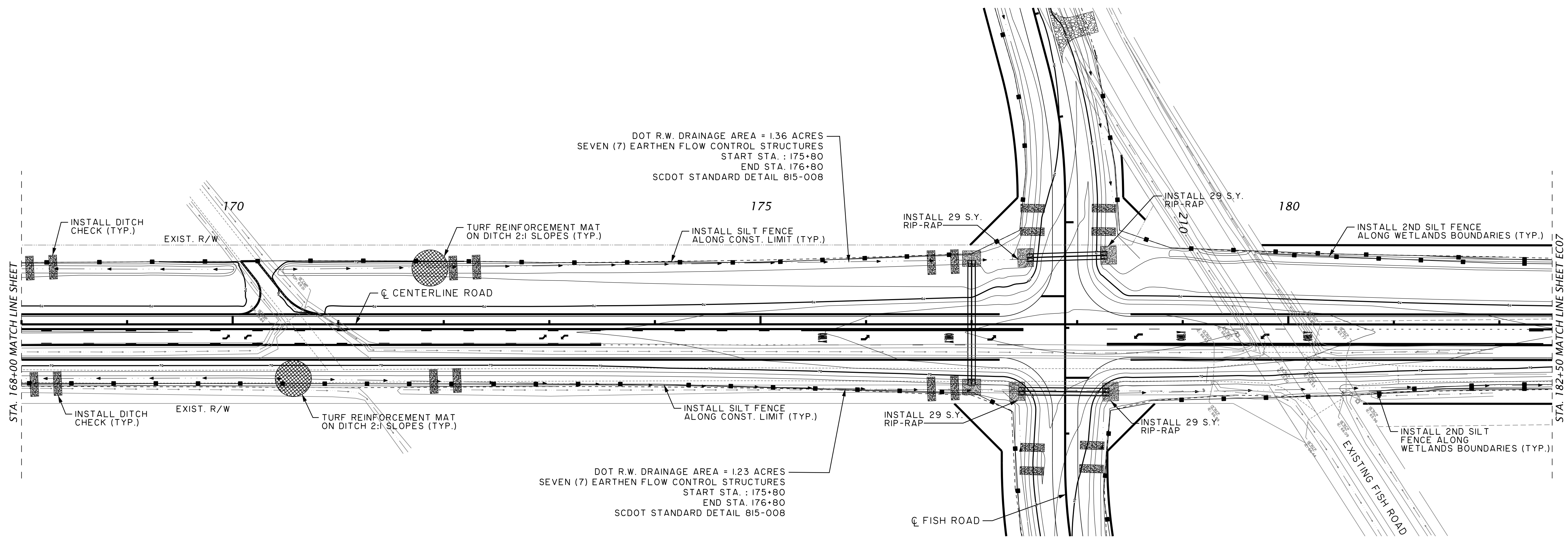
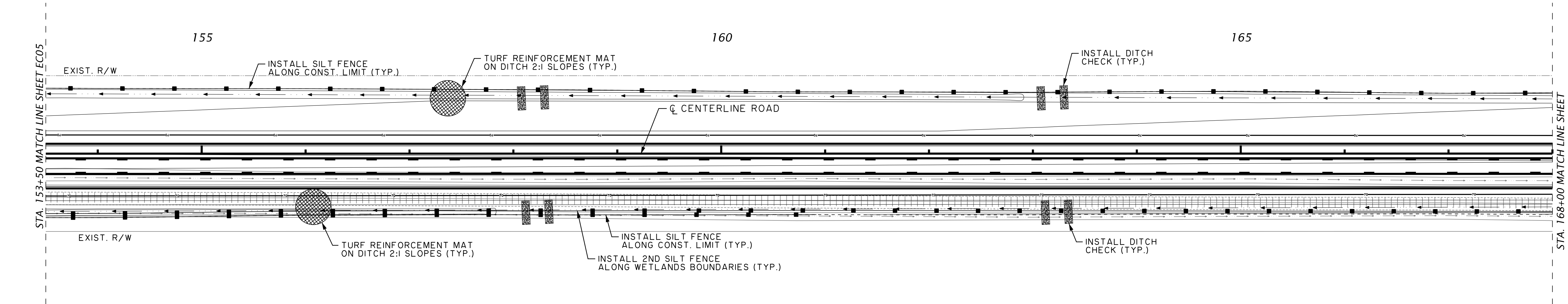
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REVIEWED: _____
APPROVED: _____
SCALE: AS NOTED

EC05

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



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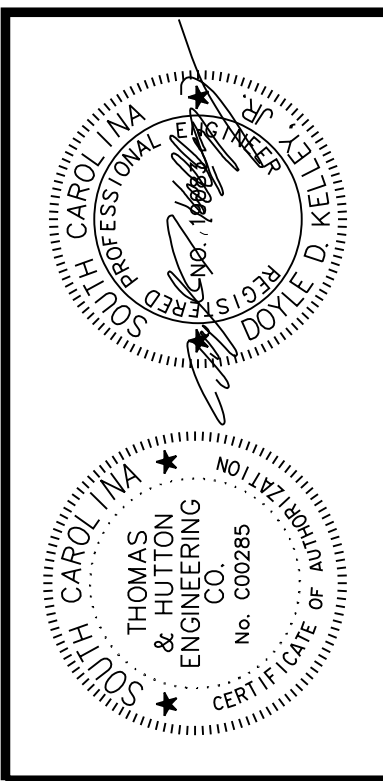
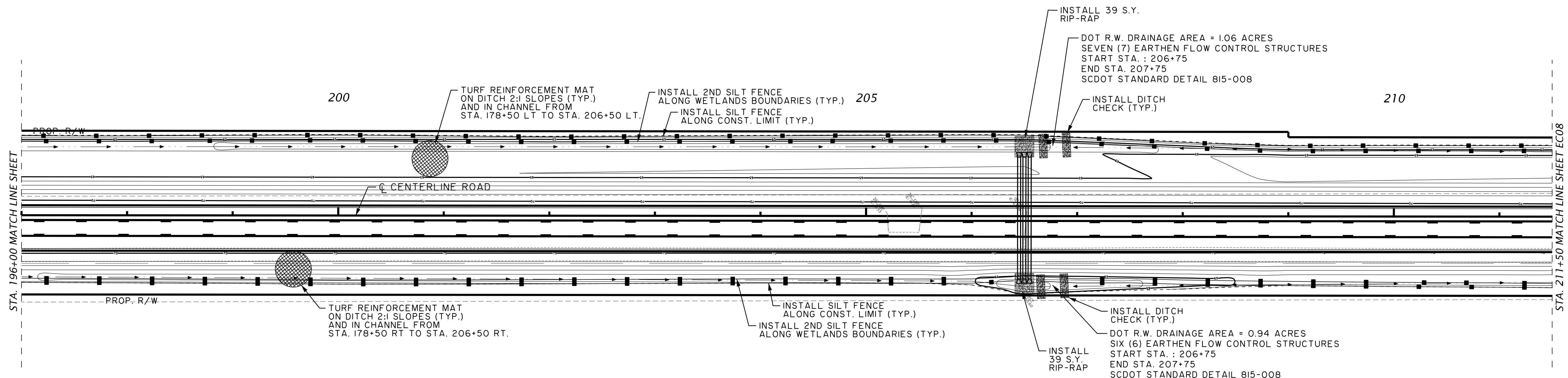
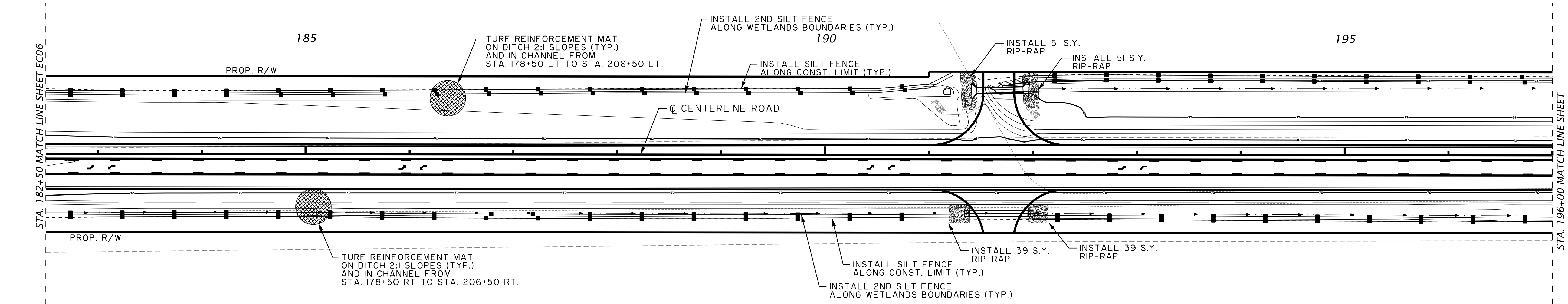
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DATE: _____
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APPROVED: _____
SCALE: AS NOTED

EC06

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



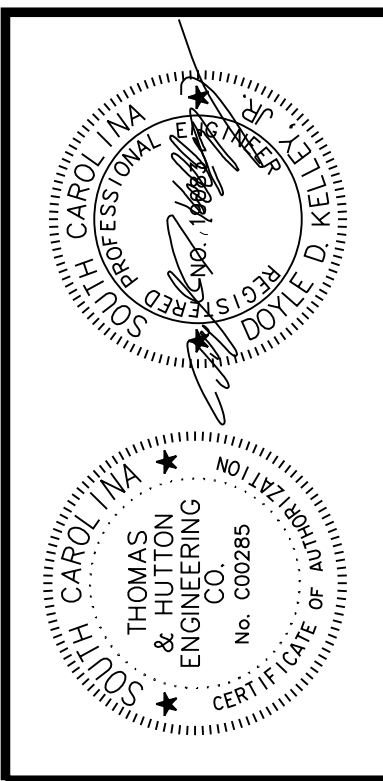
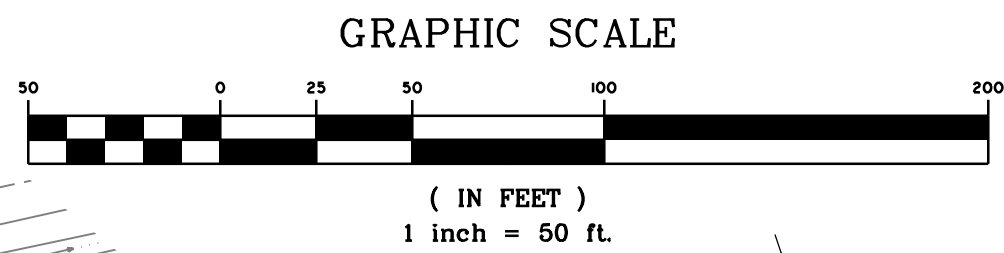
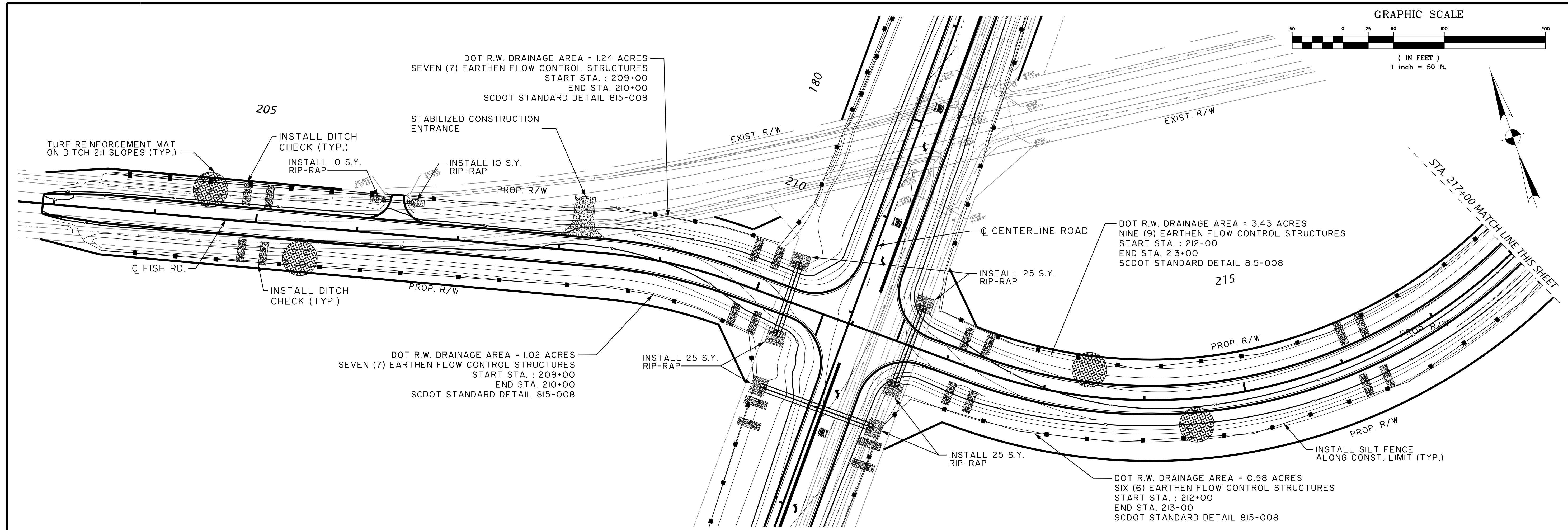
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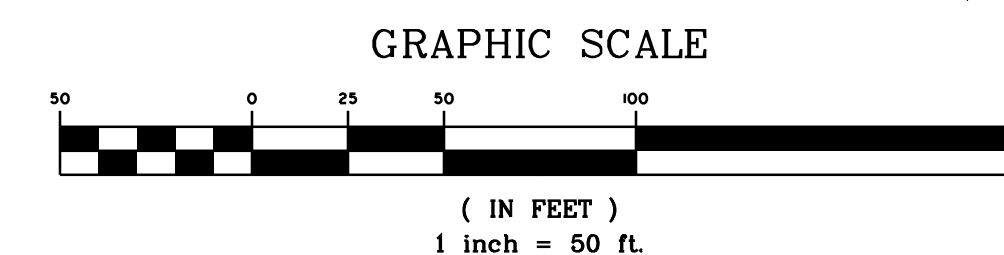
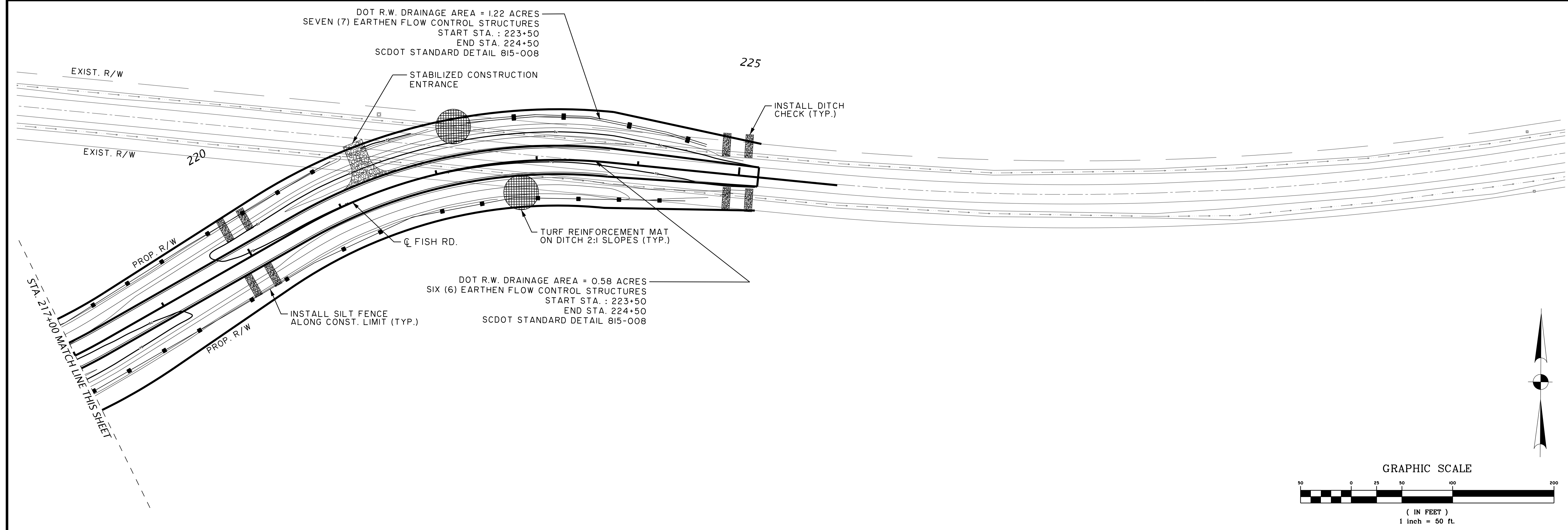
BERKELEY COUNTY
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EROSION CONTROL PLAN

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DATE: _____
DRAWN: _____
DESIGNED: _____
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APPROVED: _____
SCALE: AS NOTED

EC07



NO.	REVISIONS	BY	DATE

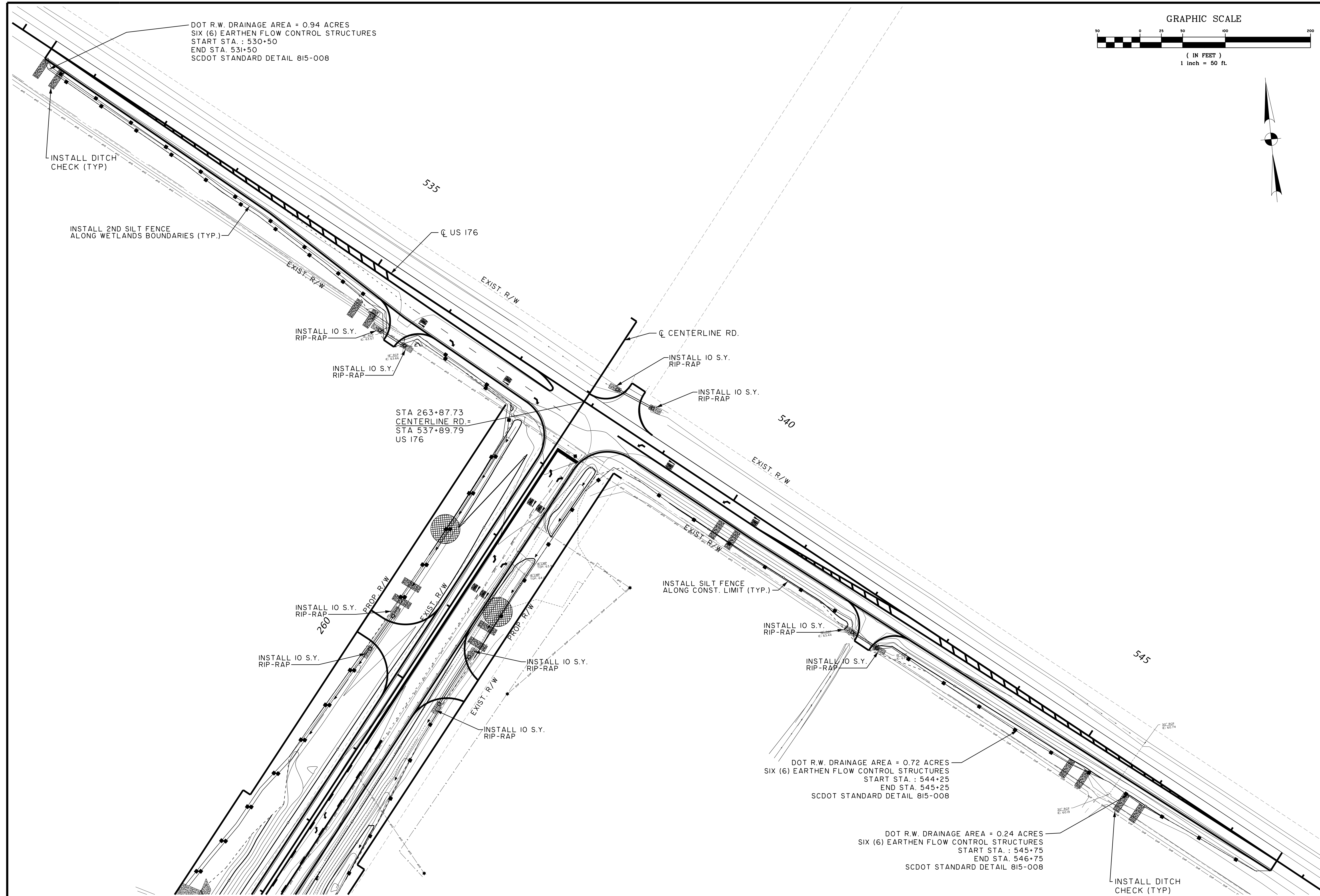


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DESIGNED:	
REVIEWED:	
APPROVED:	
SCALE:	AS NOTED

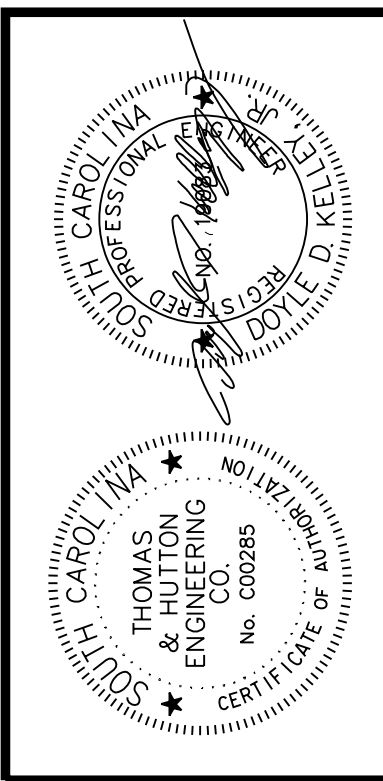
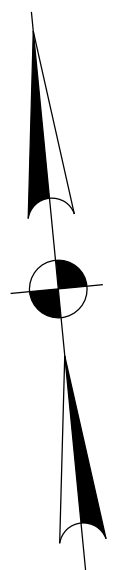
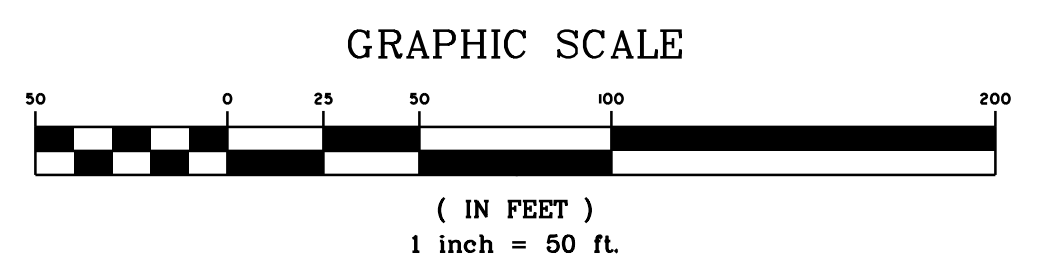
EC10



DOT R.W. DRAINAGE AREA = 0.94 ACRES
 SIX (6) EARTHEN FLOW CONTROL STRUCTURES
 START STA. : 530+50
 END STA. 531+50
 SCDOT STANDARD DETAIL 815-008

DOT R.W. DRAINAGE AREA = 0.72 ACRES
 SIX (6) EARTHEN FLOW CONTROL STRUCTURES
 START STA. : 544+25
 END STA. 545+25
 SCDOT STANDARD DETAIL 815-008

DOT R.W. DRAINAGE AREA = 0.24 ACRES
 SIX (6) EARTHEN FLOW CONTROL STRUCTURES
 START STA. : 545+75
 END STA. 546+75
 SCDOT STANDARD DETAIL 815-008



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 US 176
 EROSION CONTROL PLAN

JOB NO: J-25644.005
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 DRAWN: _____
 DESIGNED: _____
 REVIEWED: _____
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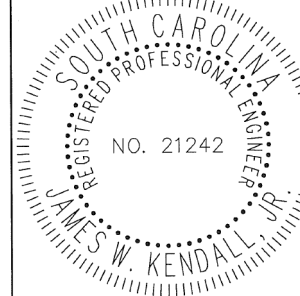
EC11

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS

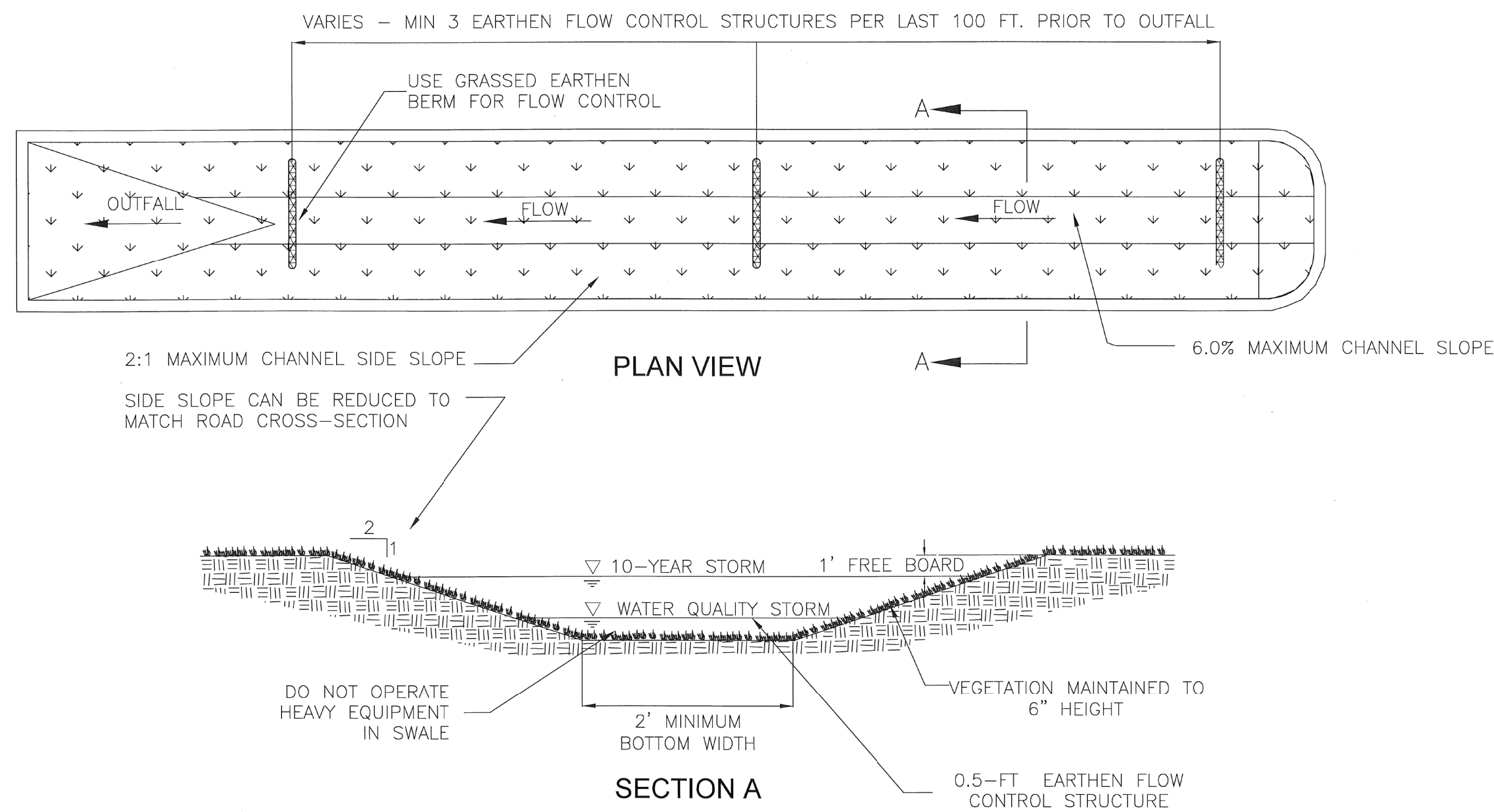

 Signature: *James W. Kendall*
 DATE: 2-9-2015

#	DATE	CHK	DESCRIPTION
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SCDOT
 SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DESIGN STANDARDS OFFICE
 955 PARK STREET
 ROOM 405
 COLUMBIA, SC 29201

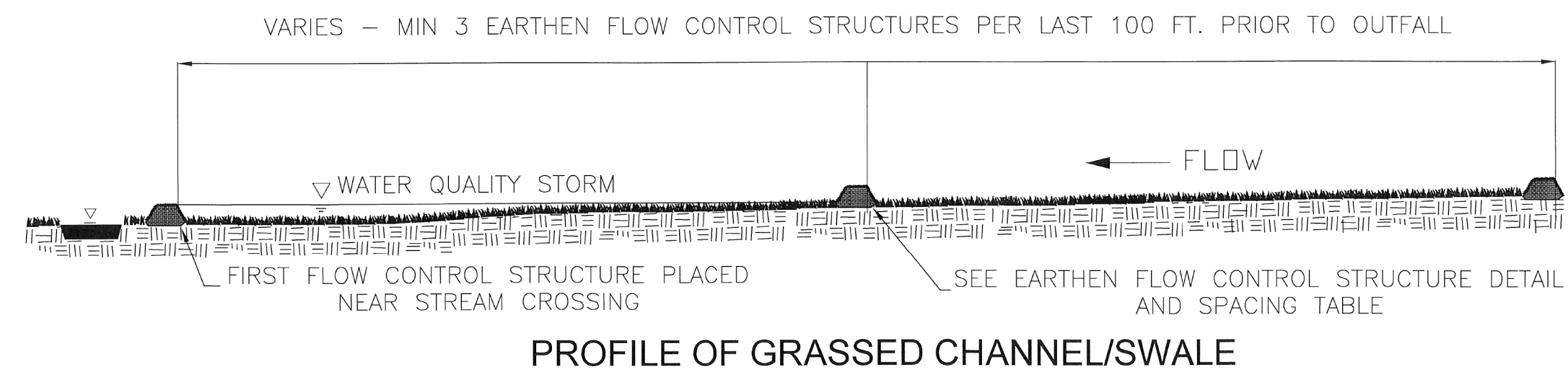
STANDARD DRAWING
GRASSED CHANNELS AND SWALES

815-008-01
EFFECTIVE LITTING DATE: MAY 2015



- NOTES:
- GRASSED CHANNELS AND SWALES WILL BE DESIGNED IN ACCORDANCE WITH THE SCDOT WATER QUALITY MANUAL.
 - 1 FOOT OF FREEBOARD SHALL BE PROVIDED ABOVE THE 10-YEAR STORM IF SITE CONDITIONS ALLOW.
 - V-SHAPED DITCHES SHALL NOT BE USED AS GRASSED CHANNELS AND SWALES FOR WATER QUALITY.
 - THE STANDARD APPLICATION FOR WATER QUALITY APPLIES ONLY TO THE LAST 100 FEET OF GRASSED CHANNELS AND SWALES PRIOR TO OUTFALL AND DOES NOT INCLUDE THE ENTIRE CONVEYANCE.
 - PAY ITEMS FOR PERMANENT AND TEMPORARY SEEDING FOR CHANNEL AND SWALE STABILIZATION IS PROVIDED IN SUPPLEMENTAL SPECIFICATION SC-M-810 OR MOST RECENT VERSION.
 - THE PAY ITEMS WILL BE:
2031000 - UNCLASSIFIED EXCAVATION CY

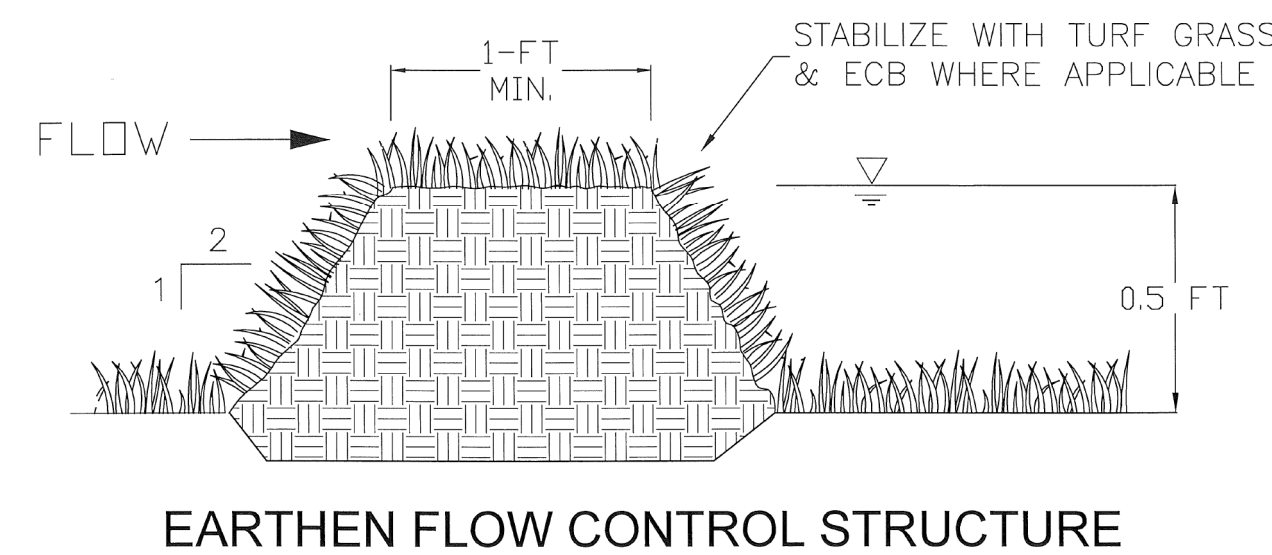
THIS DRAWING IS NOT TO SCALE



PROFILE OF GRASSED CHANNEL/SWALE

Maximum DOT ROW Drainage Area (acres)	Maximum Vegetated Channel Longitudinal Slope	Number of Earthen Flow Control Structures Required	
		Upper State	Lower State
0.25	≤ 0.5%	3 per 100 ft	
	1.0%	5 per 100 ft	
	2.0%	5 per 100 ft	
	4.0%	5 per 100 ft	
0.50	≤ 0.5%	5 per 100 ft	
	1.0%	6 per 100 ft	
	2.0%	6 per 100 ft	
	4.0%	6 per 100 ft	
1.00	≤ 0.5 - 4.0%	6 per 100 ft	
	≤ 0.5 - 4.0%	7 per 100 ft	
	≤ 0.5 - 4.0%	8 per 100 ft	
	≤ 0.5 - 4.0%	9 per 100 ft	
5.00	≤ 0.5 - 1.0%	10 per 100 ft	9 per 100 ft
	2.0 - 4.0%	10 per 100 ft	10 per 100 ft

Number of Flow Control Structures	Flow Control Structure Spacing
3	0ft, 50ft, 100ft
5	0ft, 25ft, 50ft, 75ft, 100ft
6	0ft, 20ft, 40ft, 60ft, 80ft, 100ft
7	0ft, 16ft, 33ft, 50ft, 66ft, 83ft, 100ft
8	0ft, 14ft, 29ft, 43ft, 57ft, 71ft, 86ft, 100ft
9	0ft, 13ft, 25ft, 38ft, 50ft, 63ft, 75ft, 88ft, 100ft
10	0ft, 11ft, 22ft, 33ft, 44ft, 56ft, 67ft, 78ft, 89ft, 100ft



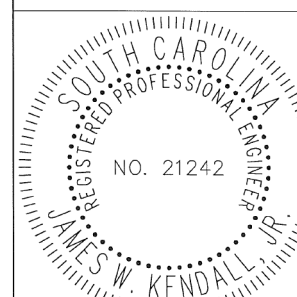
EARTHEN FLOW CONTROL STRUCTURE

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS


 Signature: *James W. Kendall*
 DATE: 2-9-2015

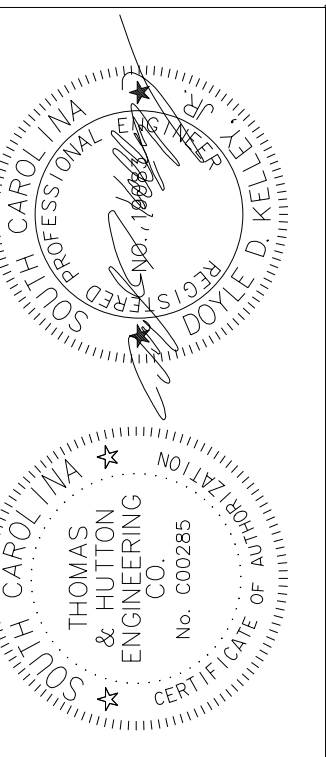
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STANDARD DRAWING
GRASSED CHANNELS AND SWALES

815-008-02
EFFECTIVE LITTING DATE: MAY 2015

THIS DRAWING IS NOT TO SCALE



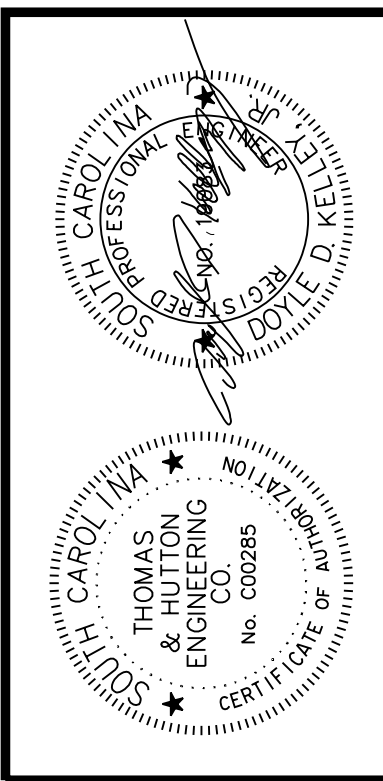
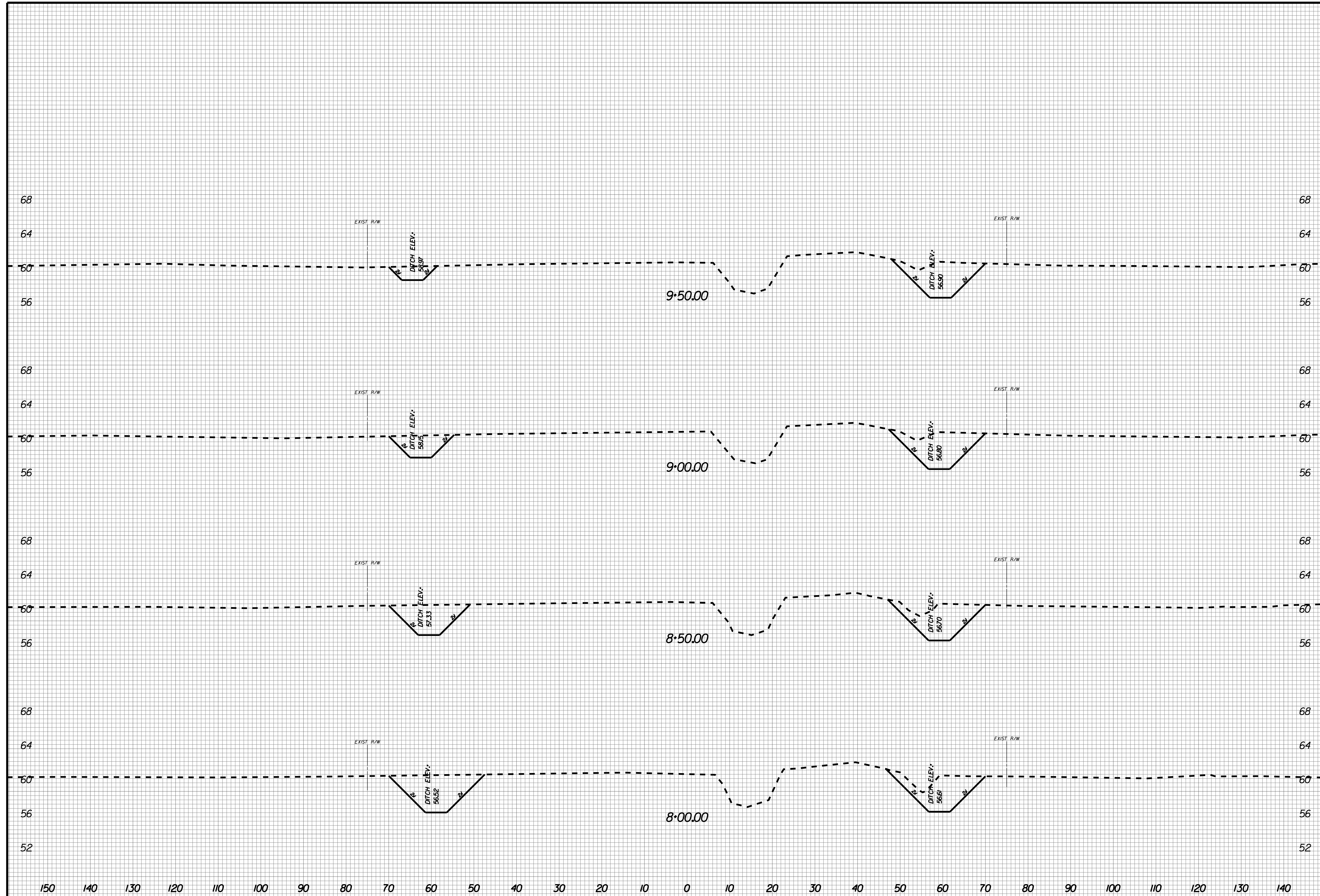
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 CENTERLINE ROAD
 EROSION CONTROL DETAILS

JOB NO:	J-25644-005
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APPROVED:	
SCALE:	AS NOTED

EC14



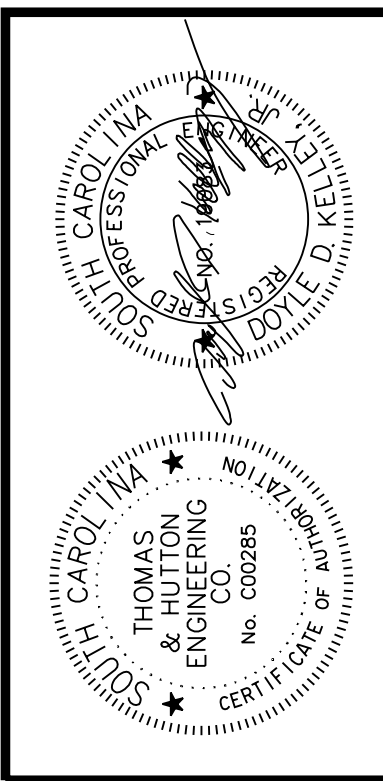
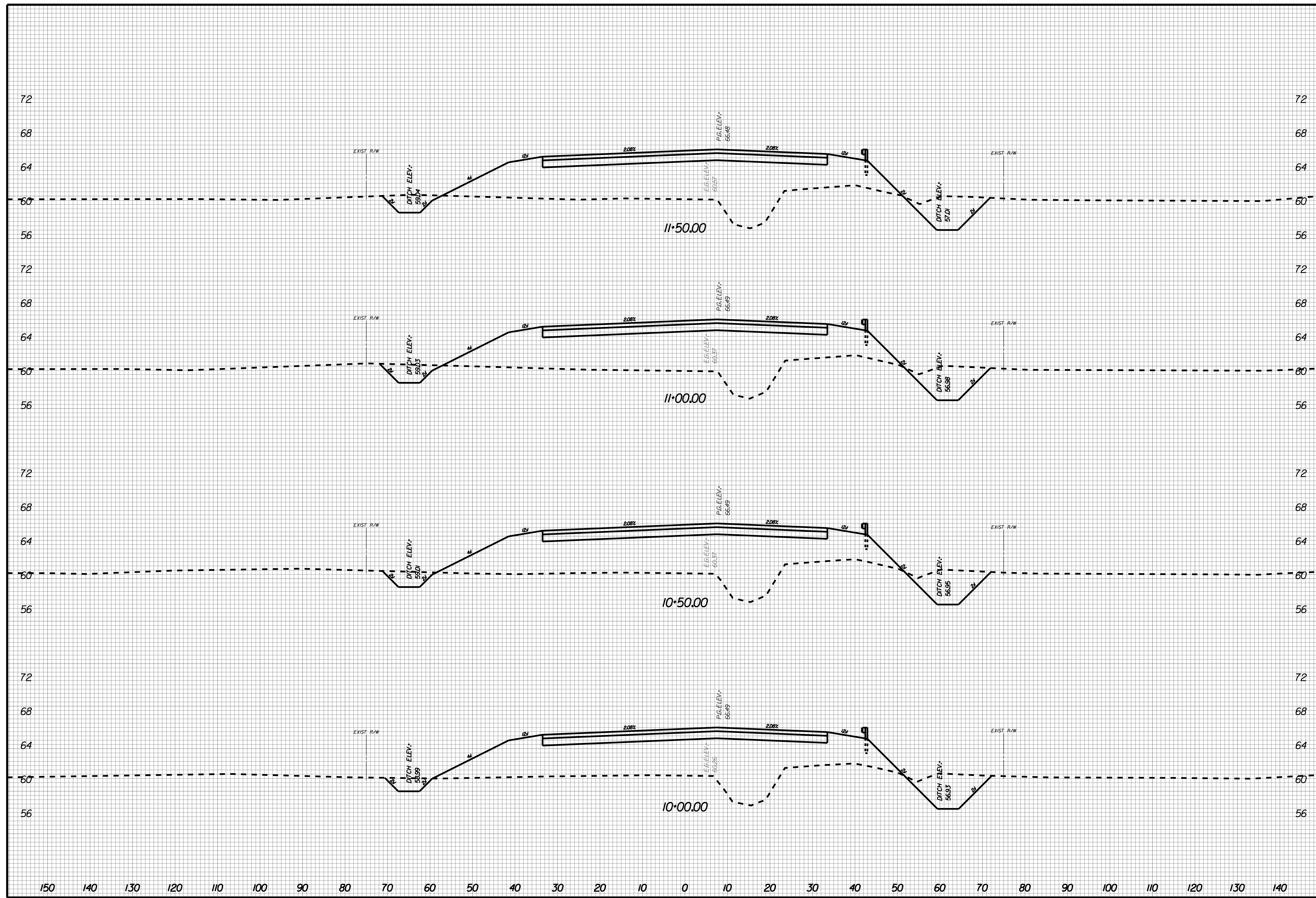
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 CROSS SECTIONS

JOB NO: J-25644.1005
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 DESIGNED: _____
 REVIEWED: _____
 APPROVED: _____
 SCALE: AS NOTED

X001



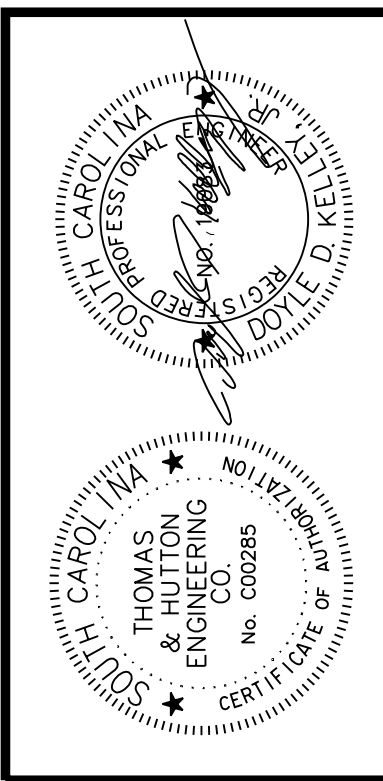
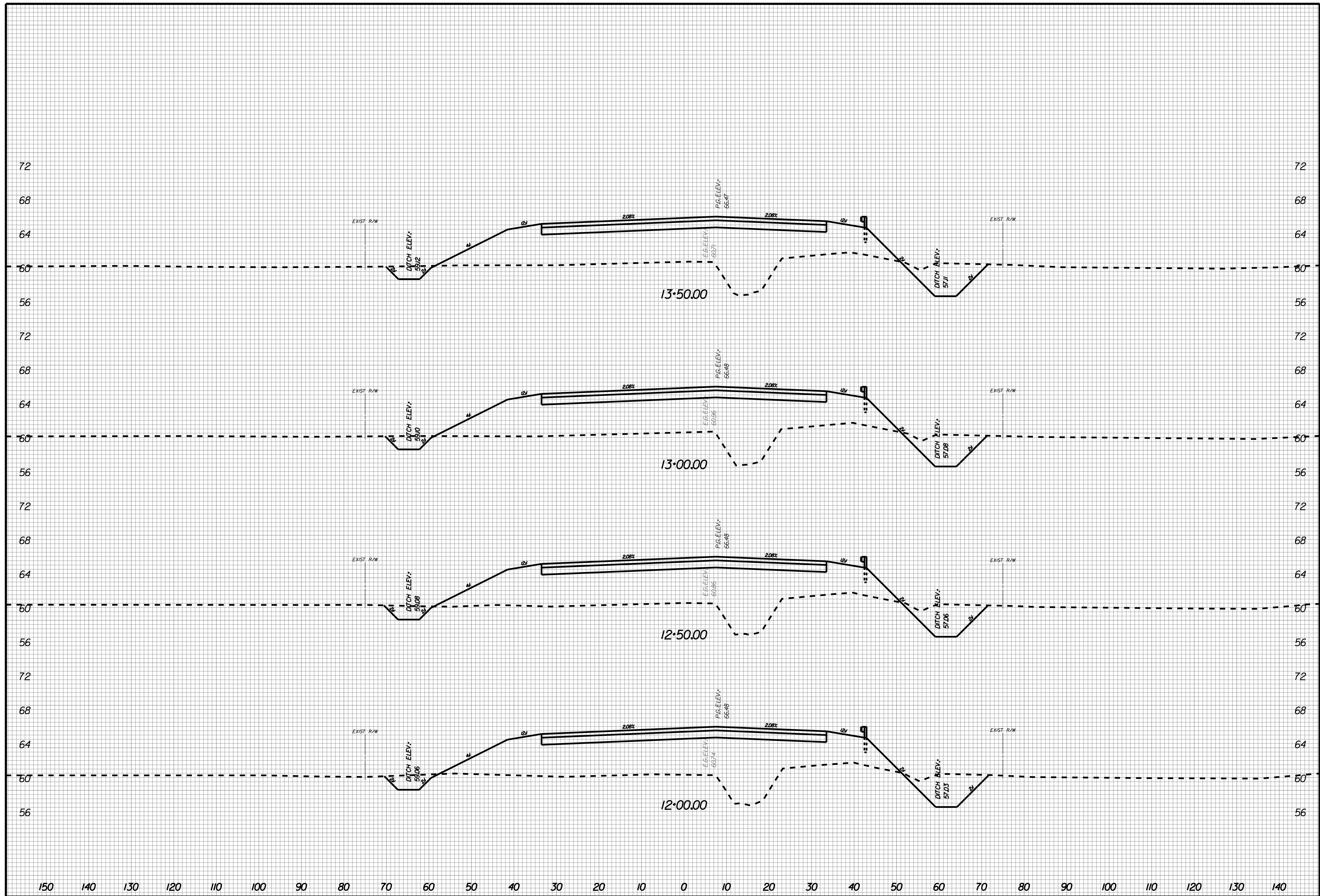
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JOB NO: J-25644.005
 DATE: _____
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 DESIGNED: _____
 REVIEWED: _____
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X002



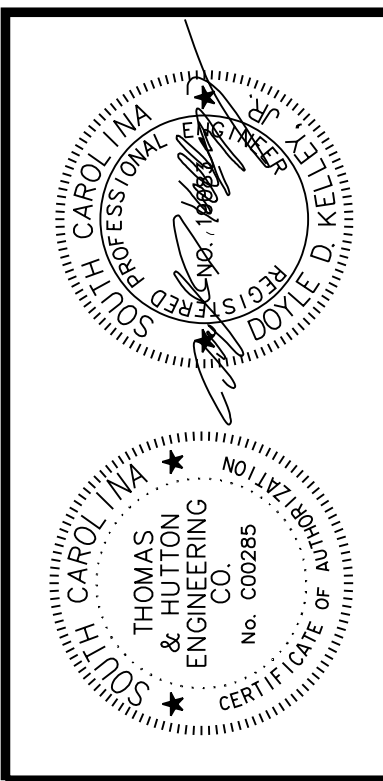
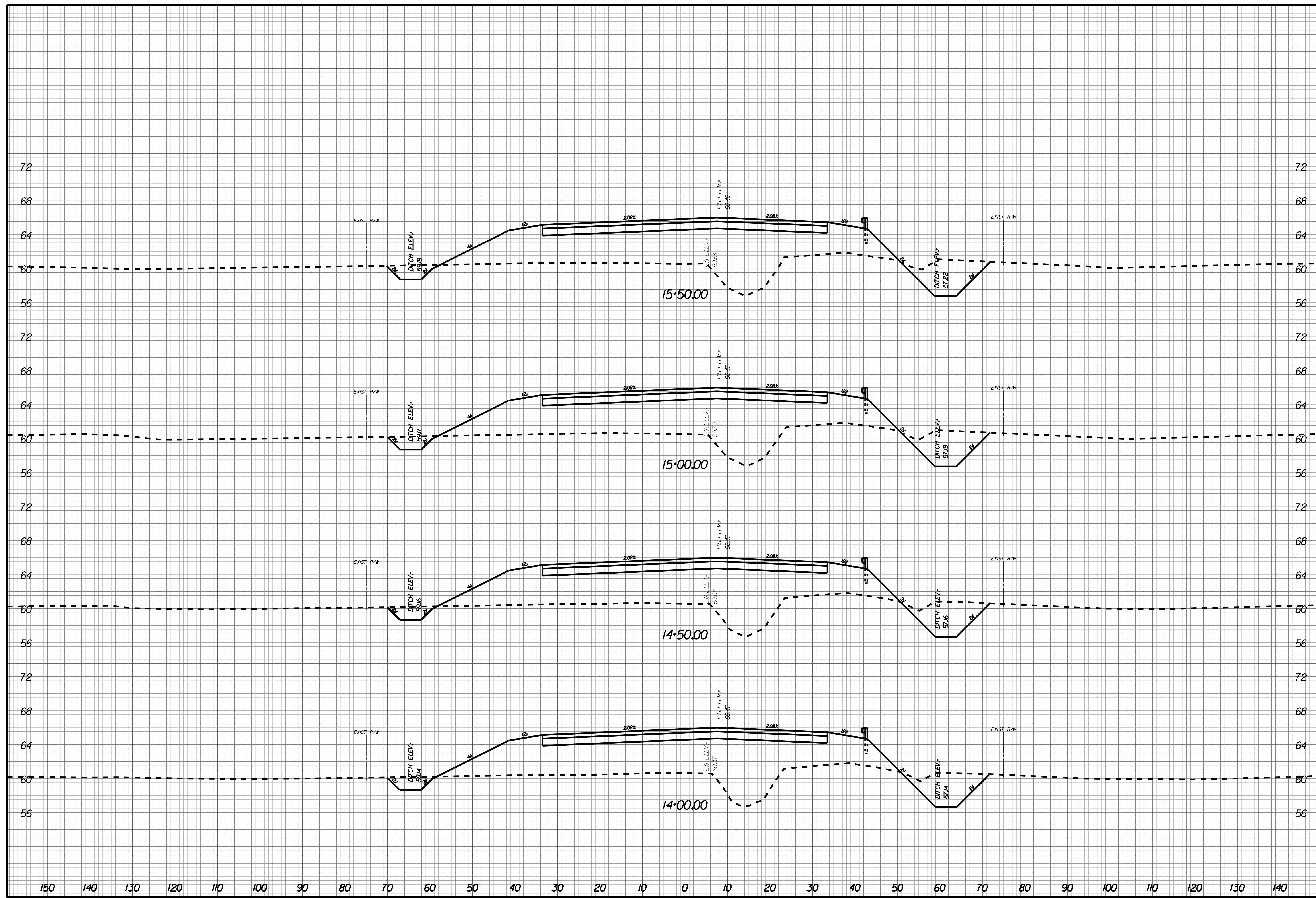
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JOB NO: J-25644.1005
 DATE: _____
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X003



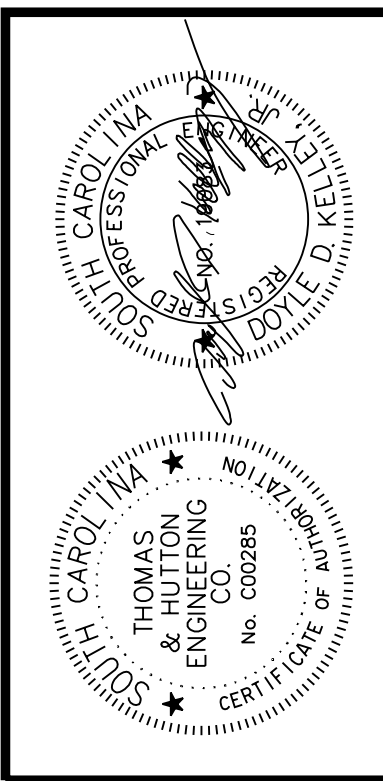
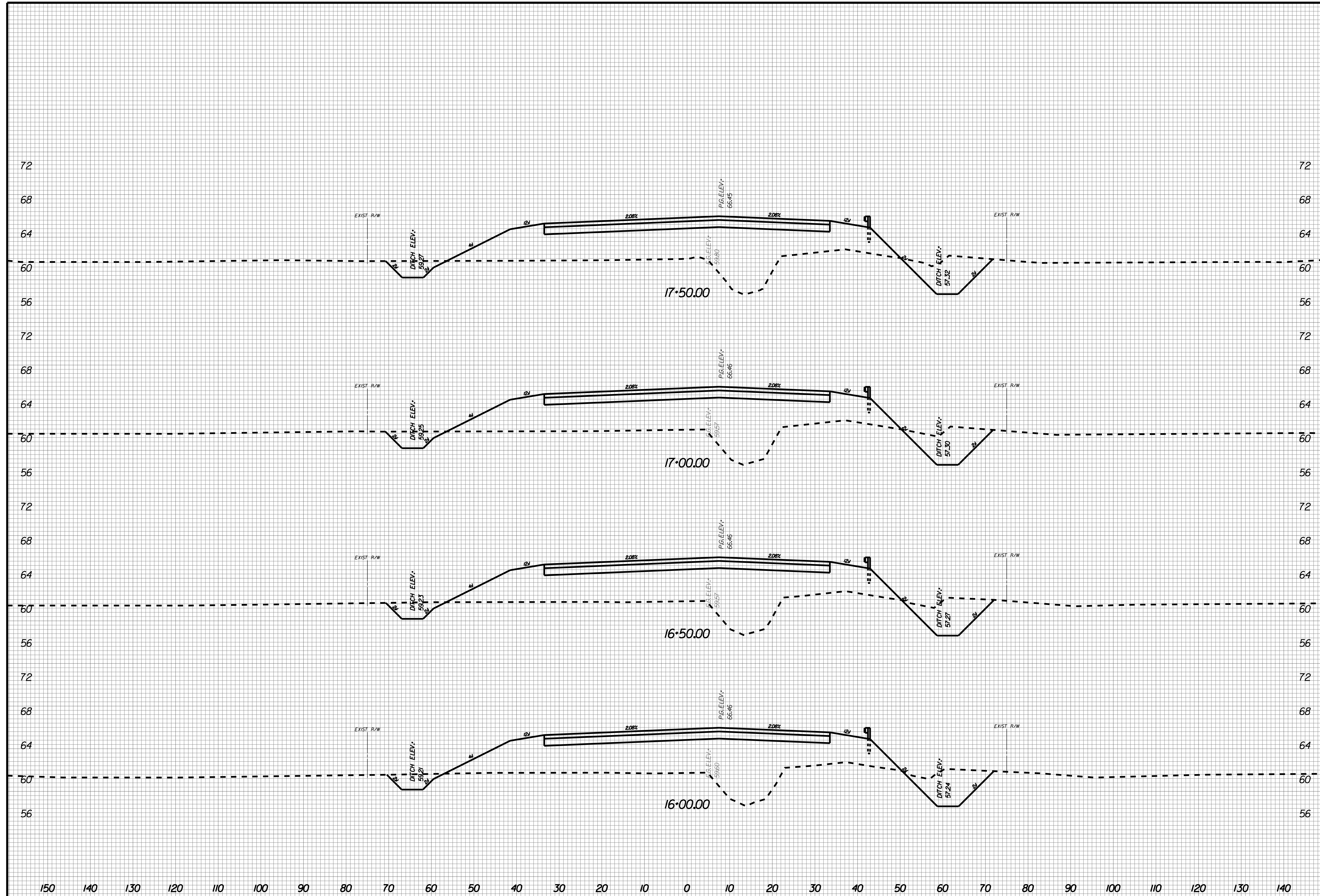
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JOB NO: J-25644.1005
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X004



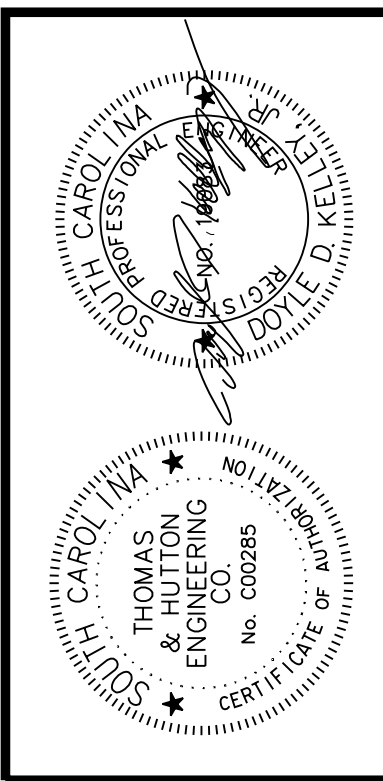
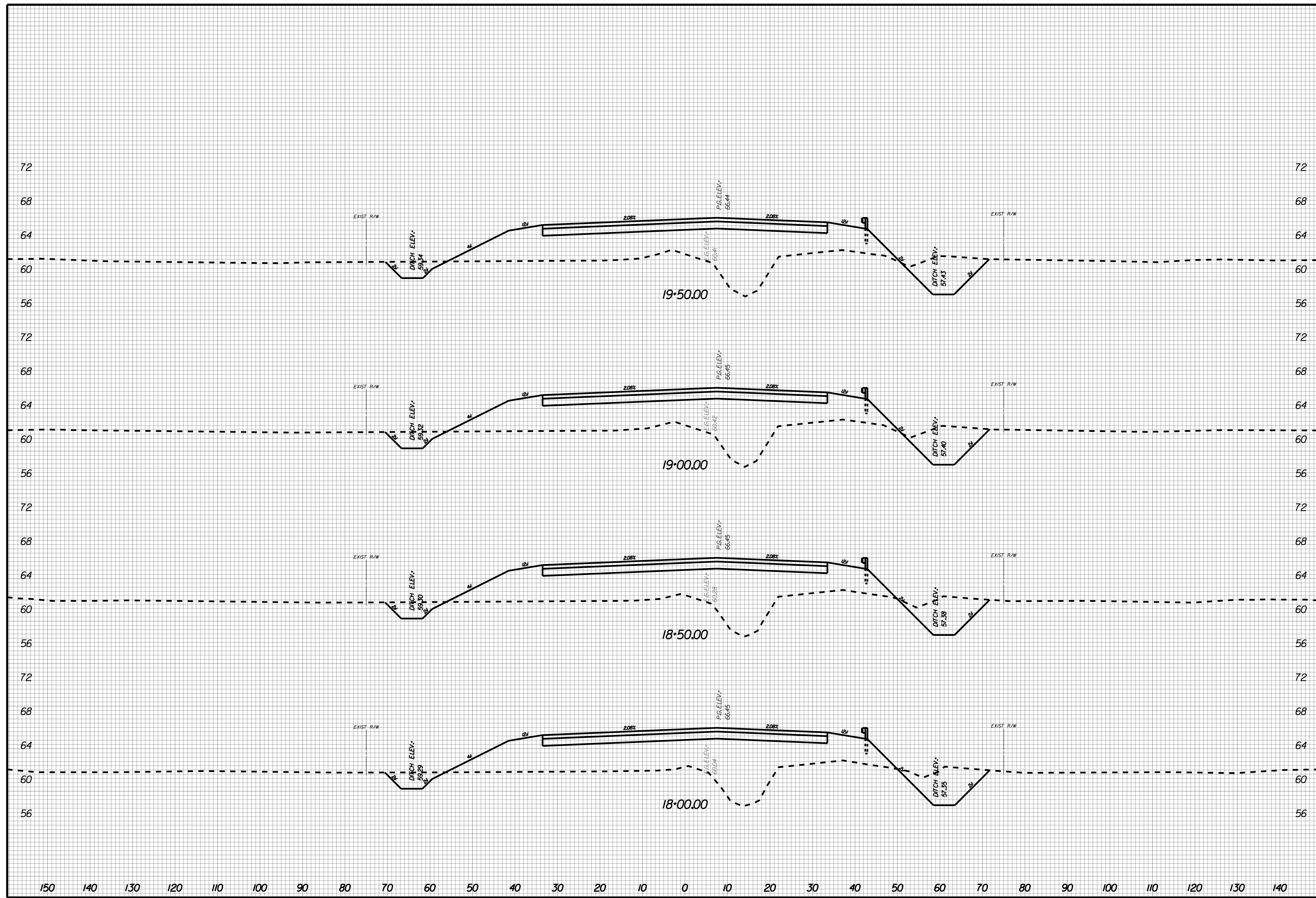
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JOB NO: J-25644.1005
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 SCALE: AS NOTED

X005



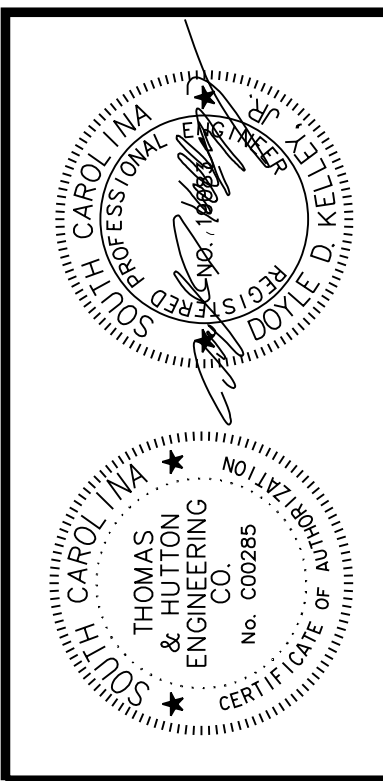
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X006



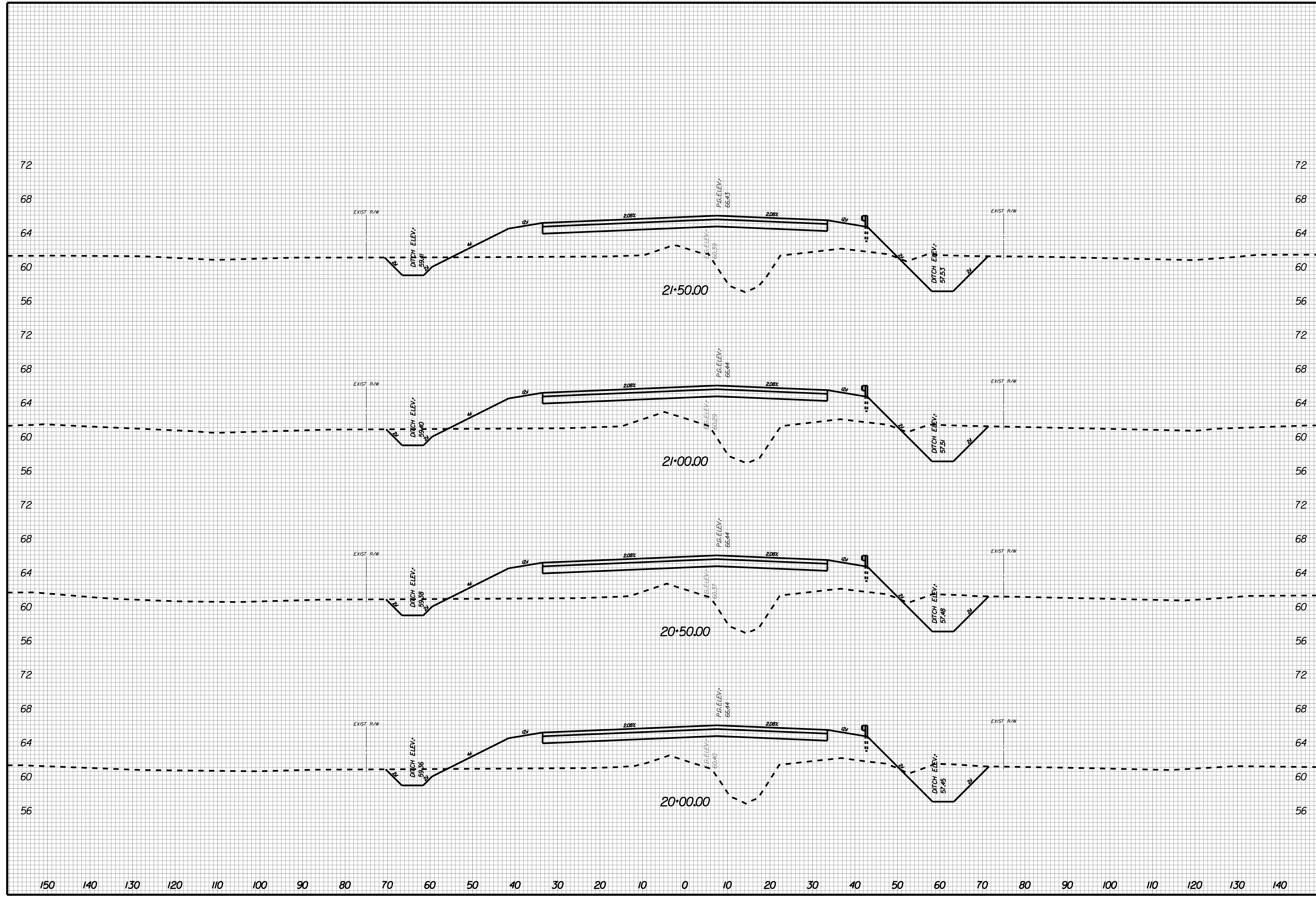
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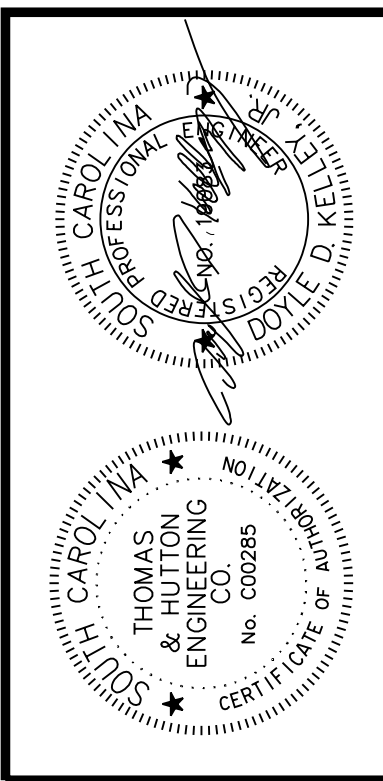
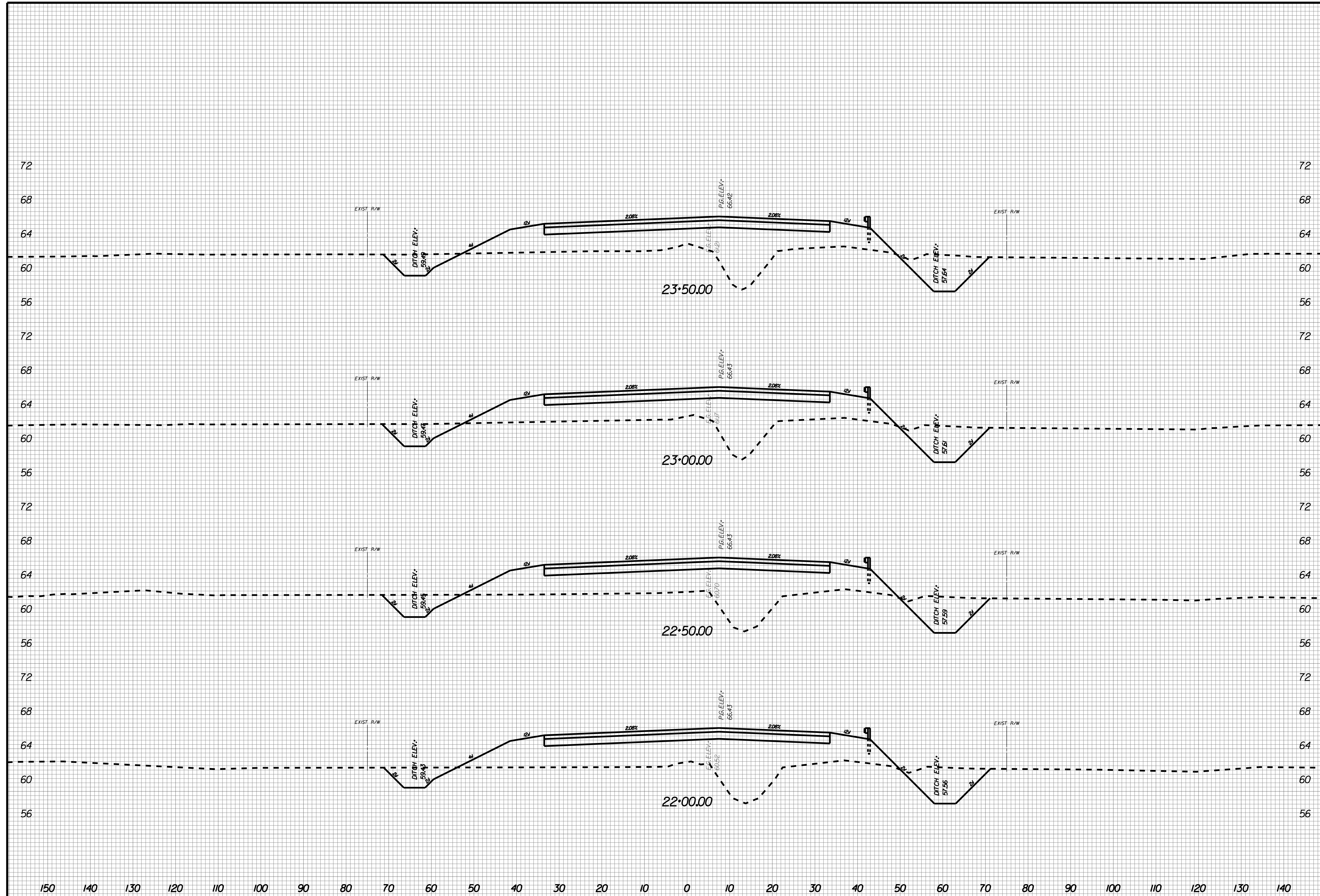
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X007





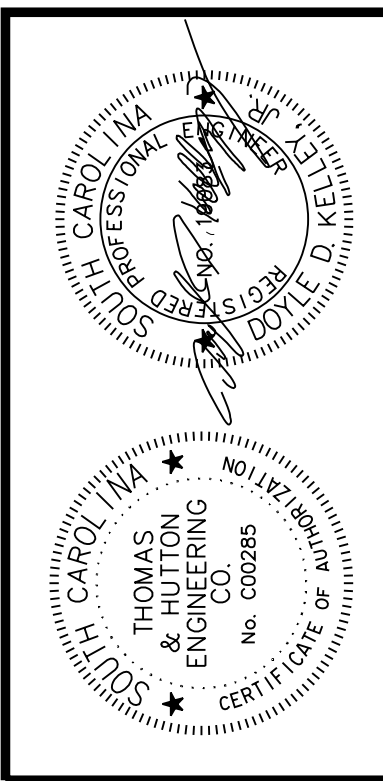
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 CROSS SECTIONS

JOB NO: J-25644.1005
 DATE: _____
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 APPROVED: _____
 SCALE: AS NOTED

X008



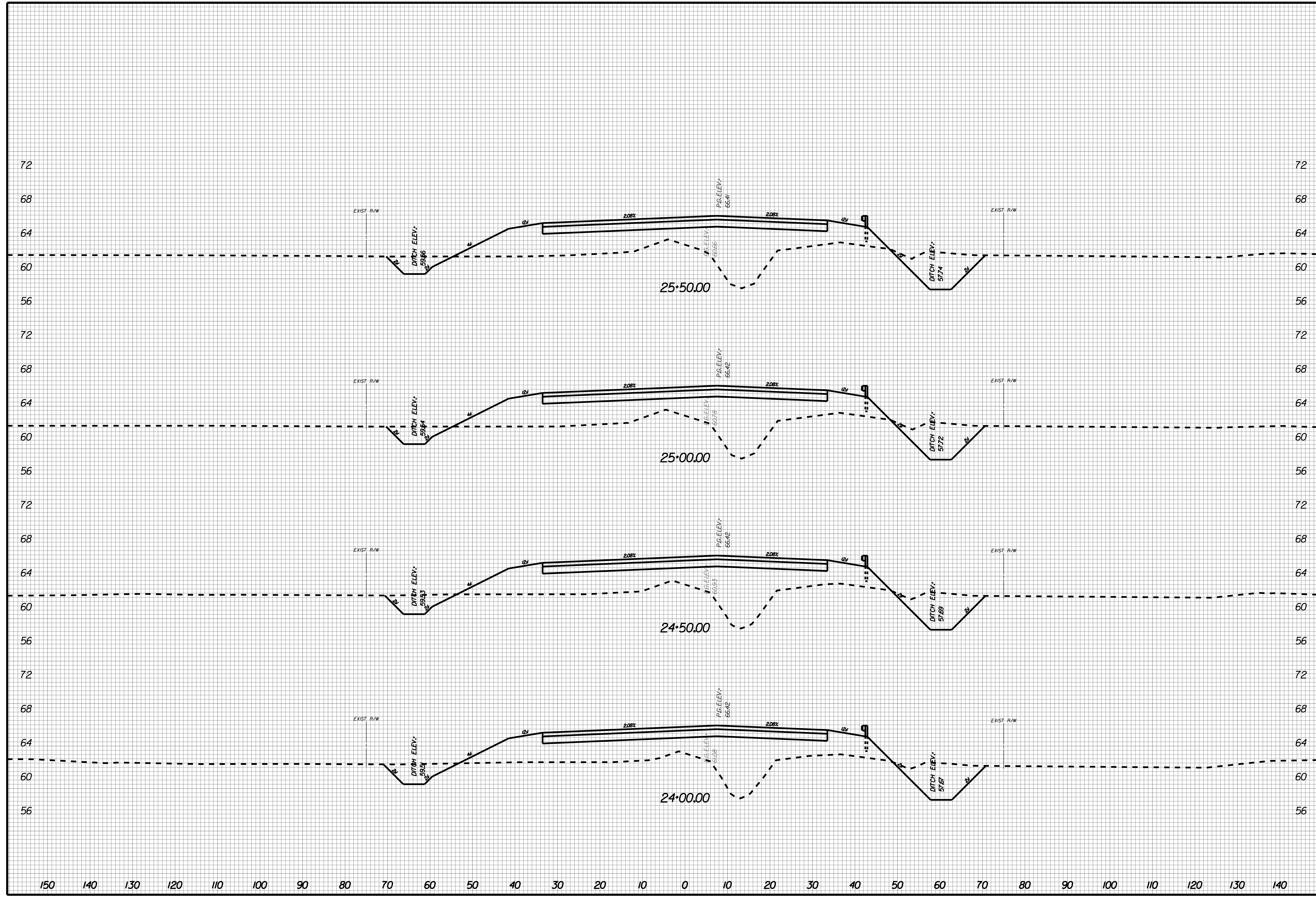
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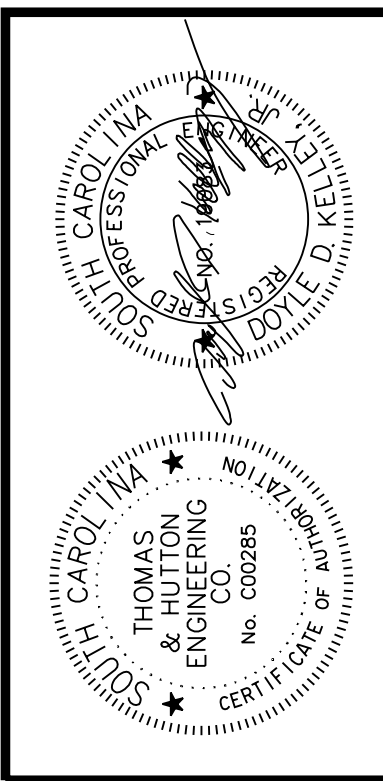
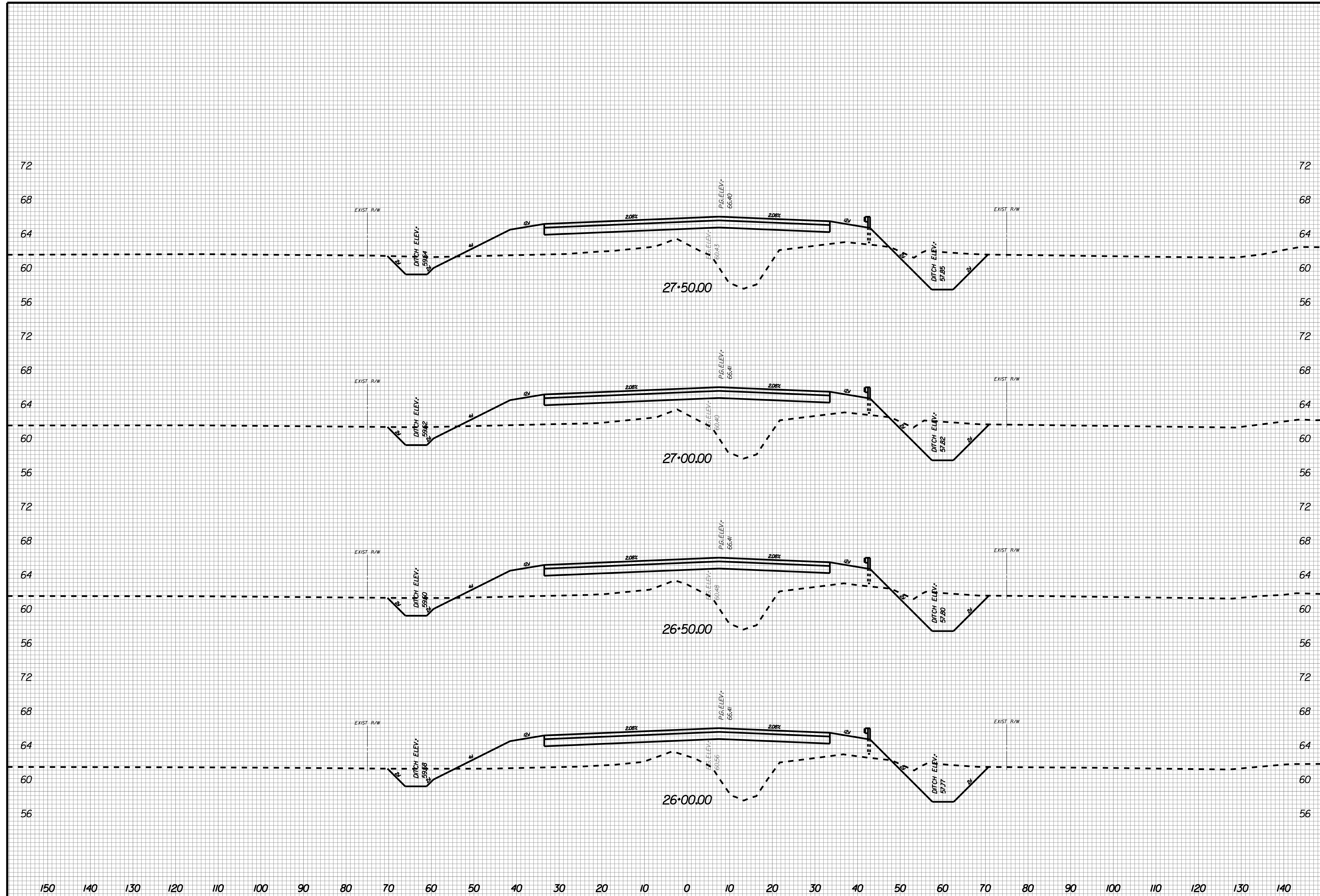
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X009





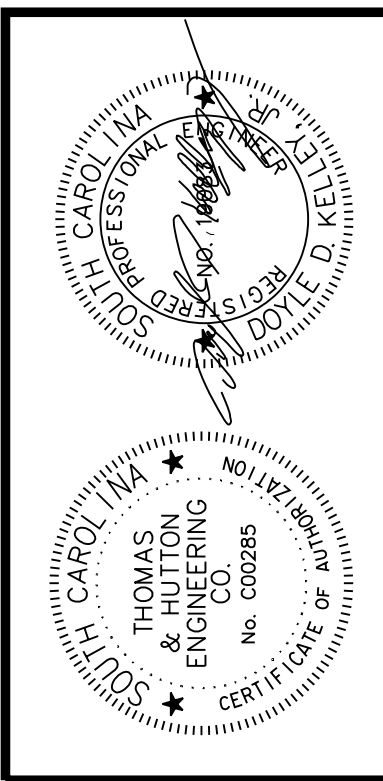
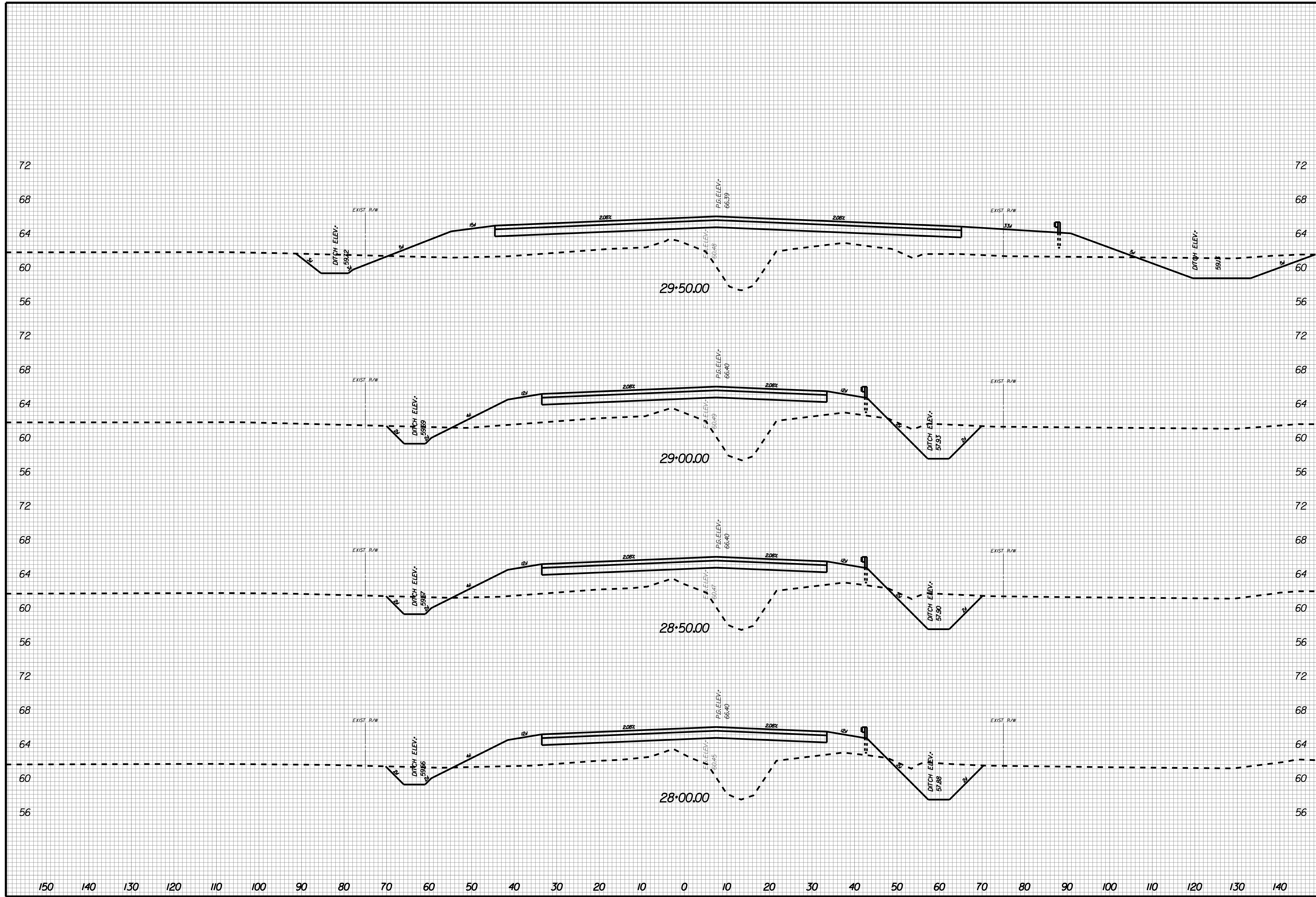
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X010



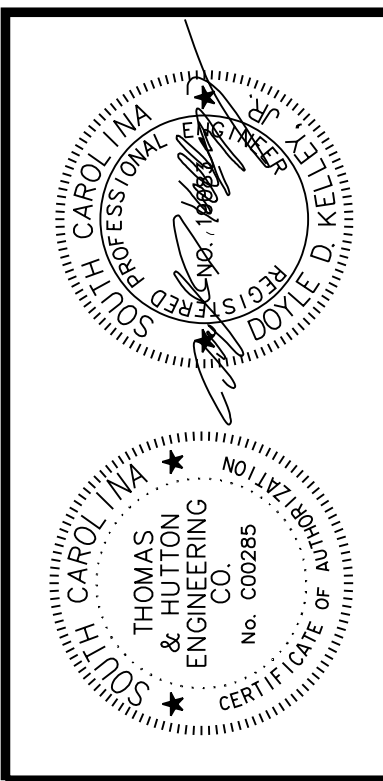
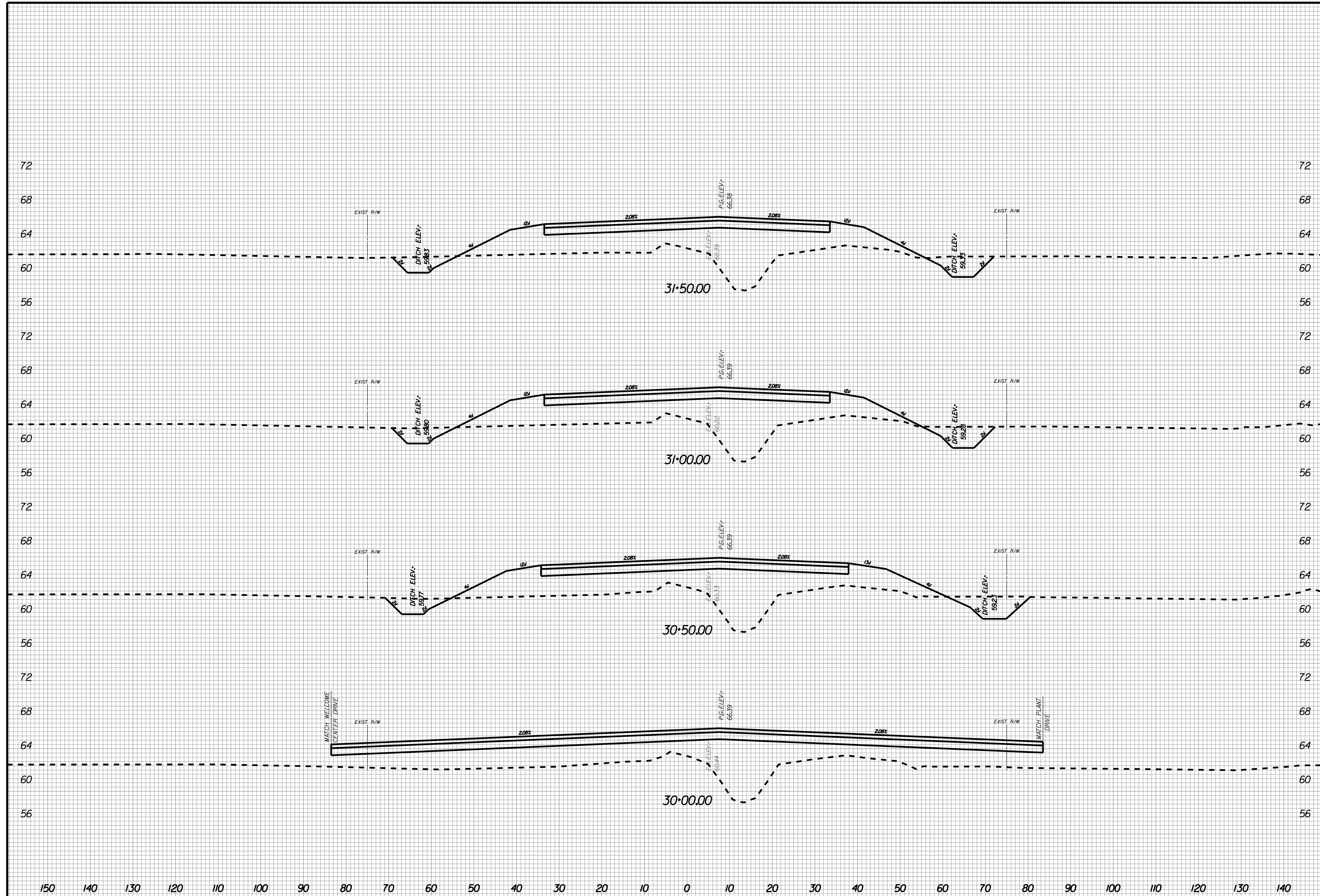
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X011



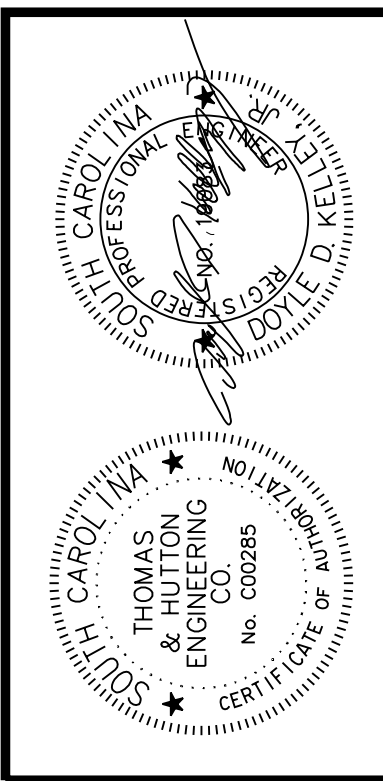
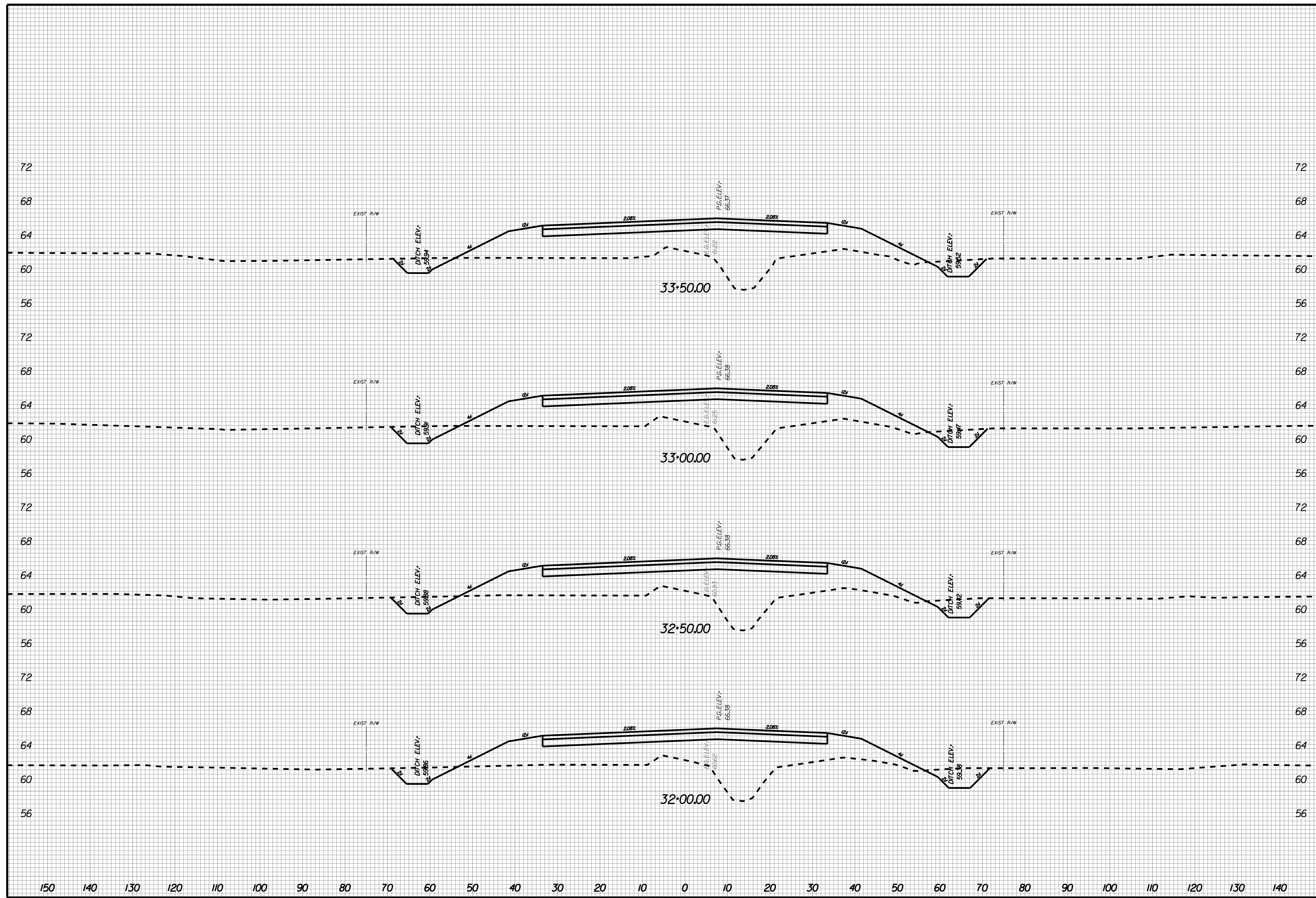
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X012



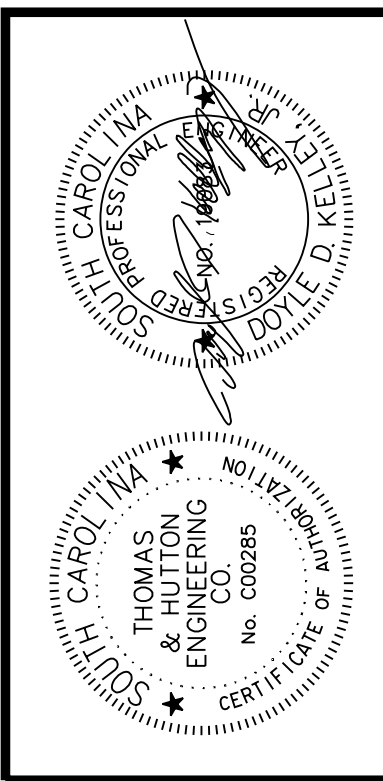
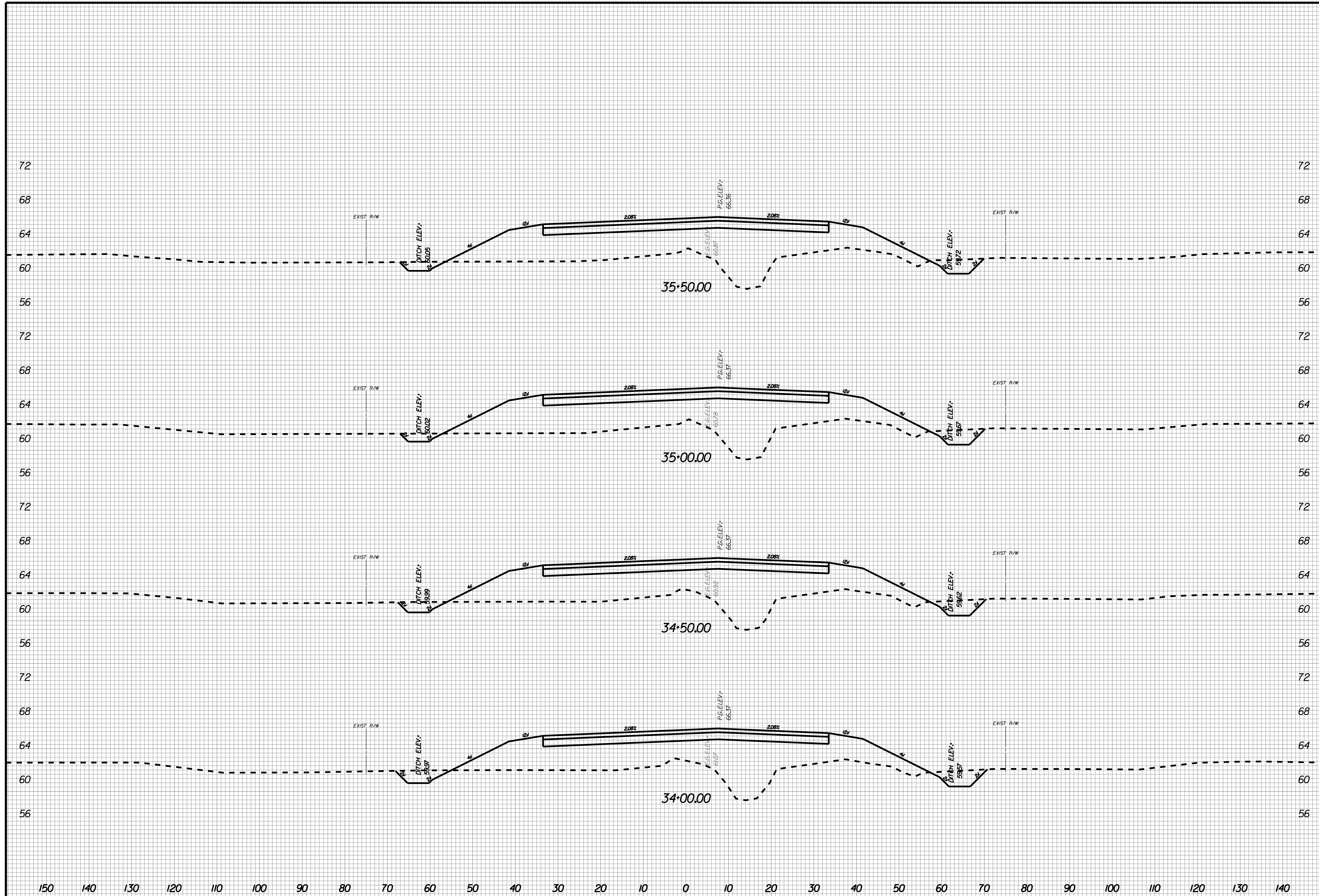
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X013



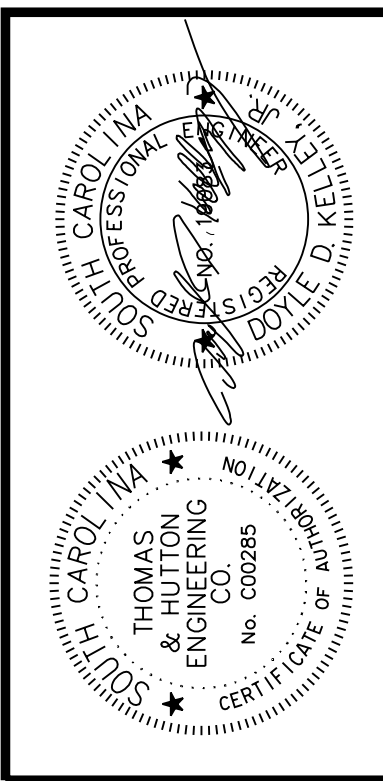
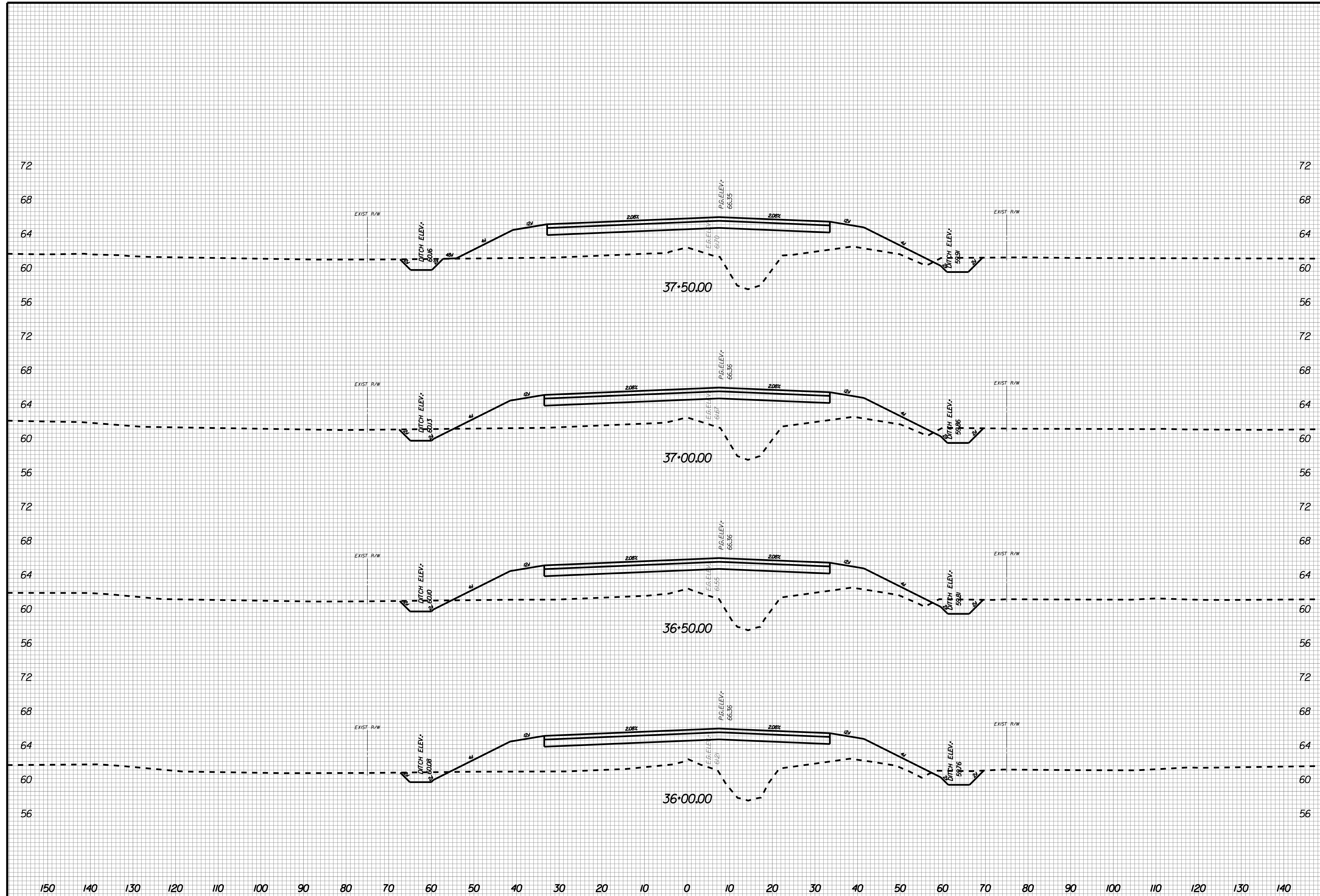
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X014



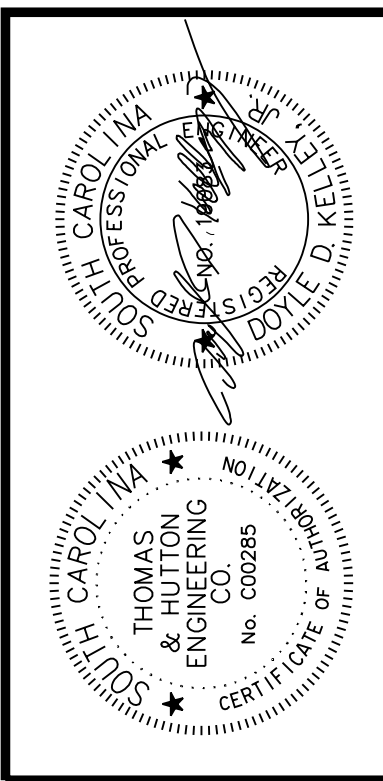
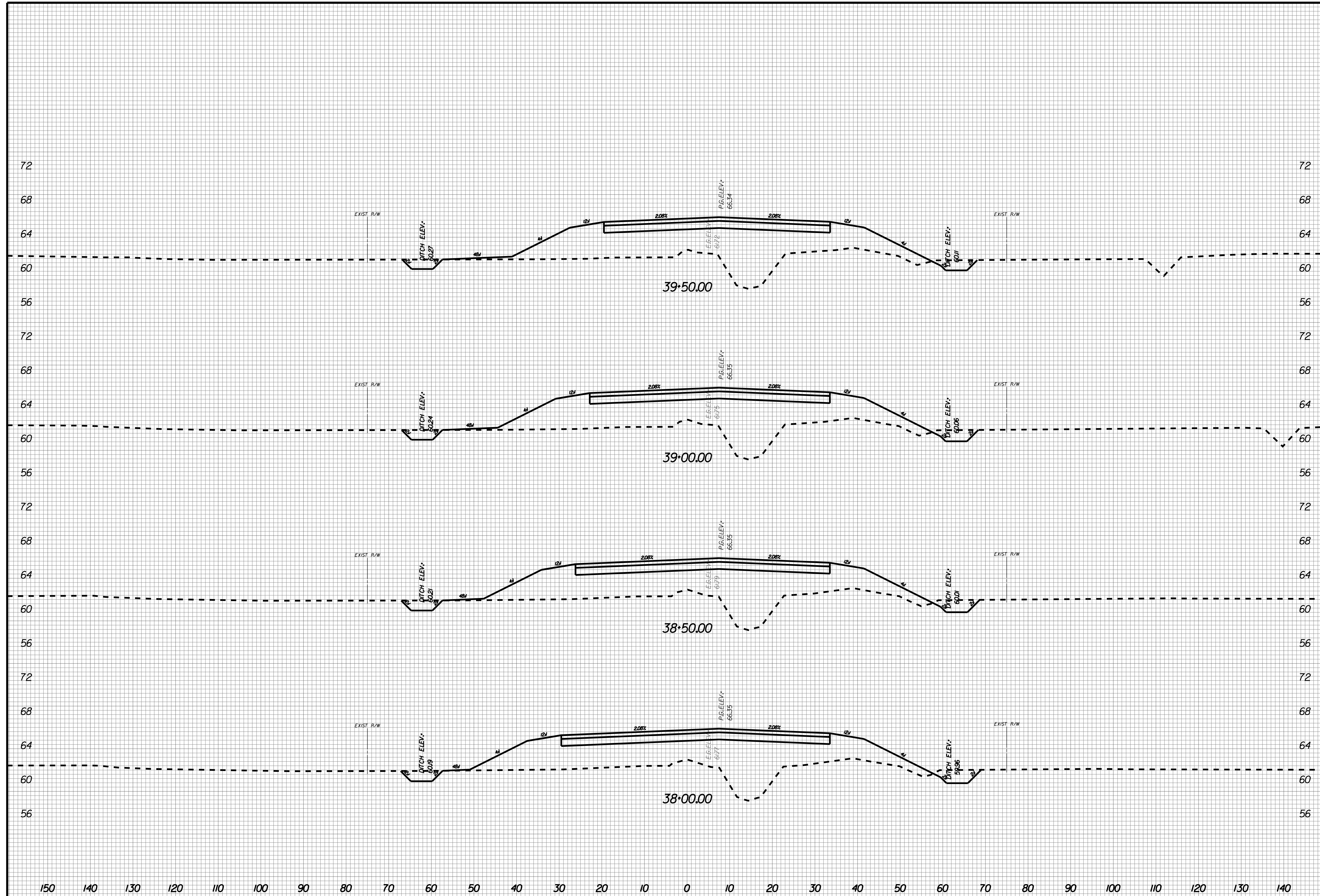
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X015



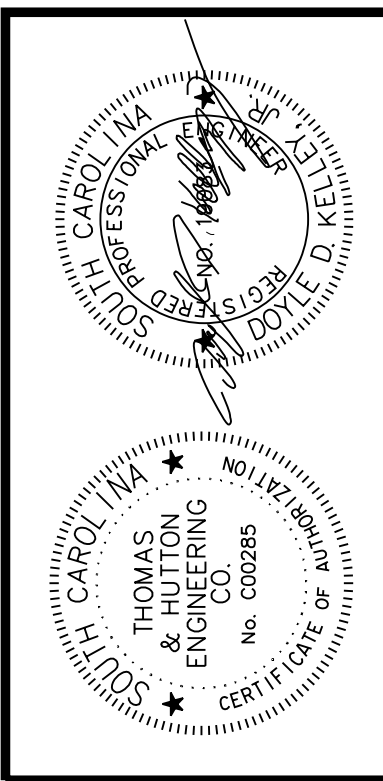
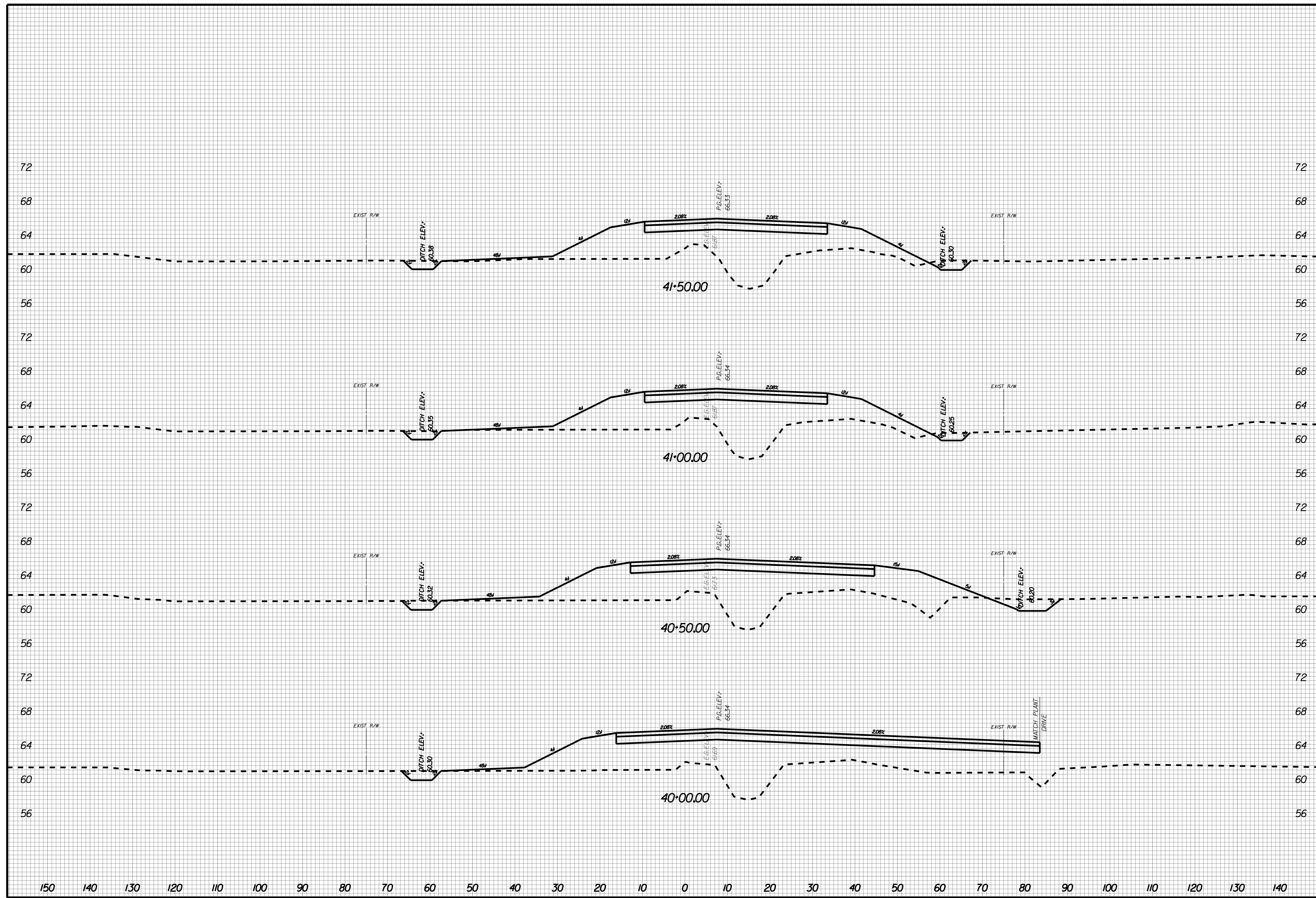
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X016



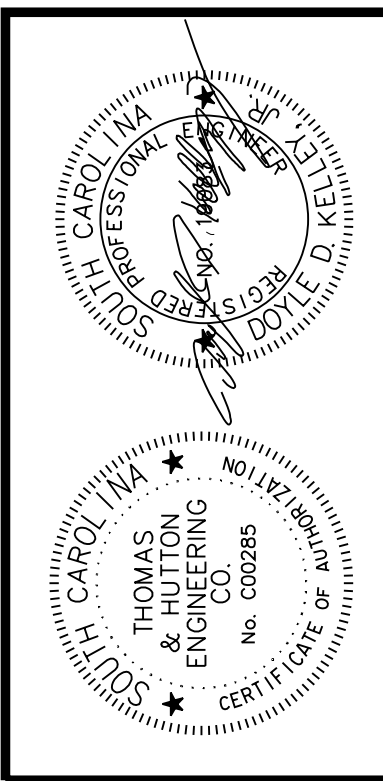
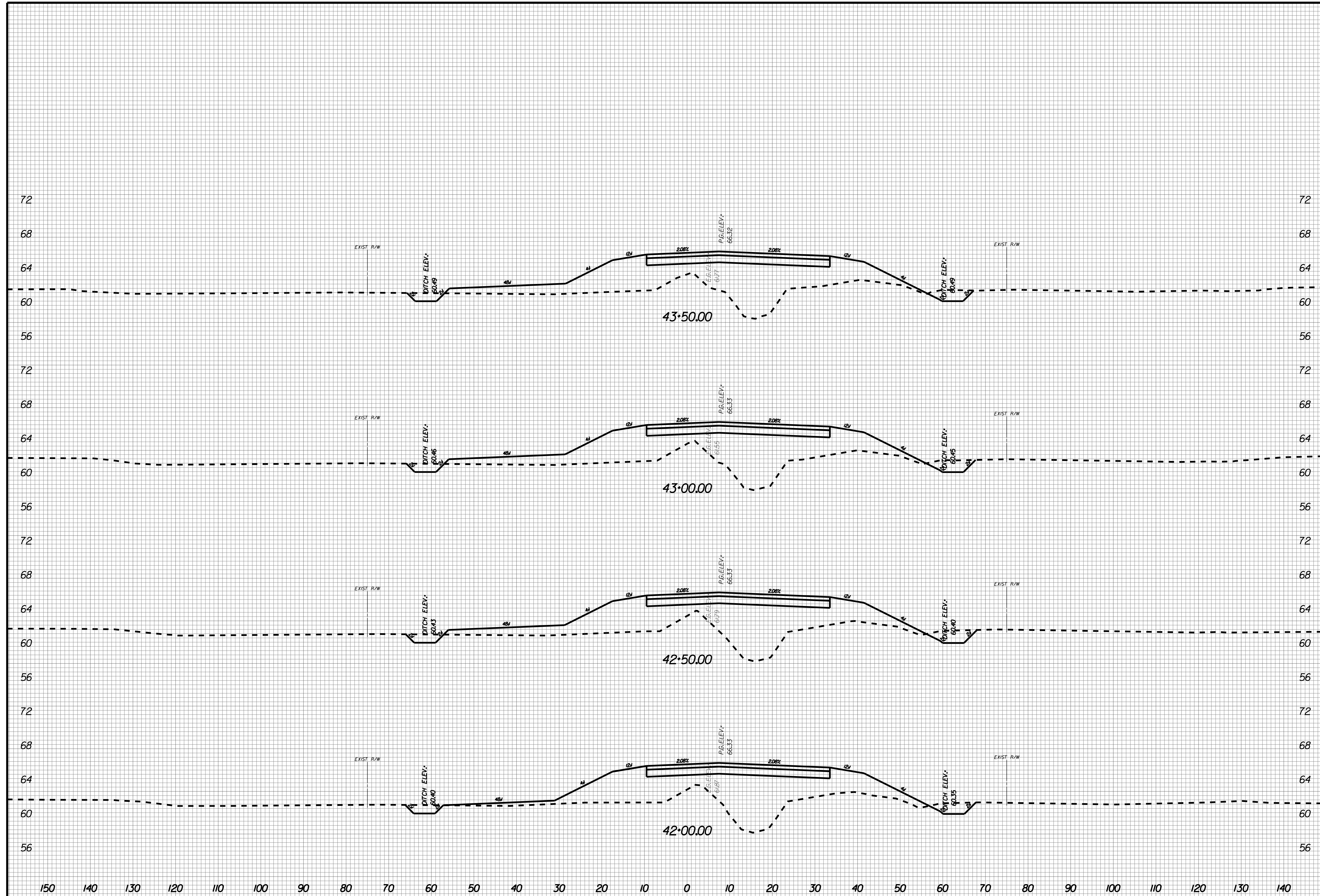
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X017



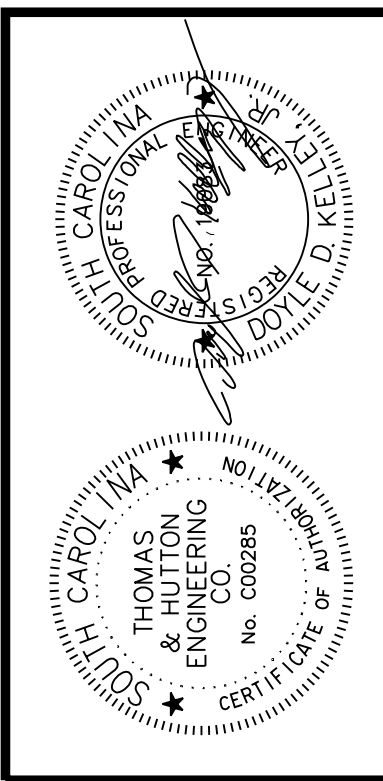
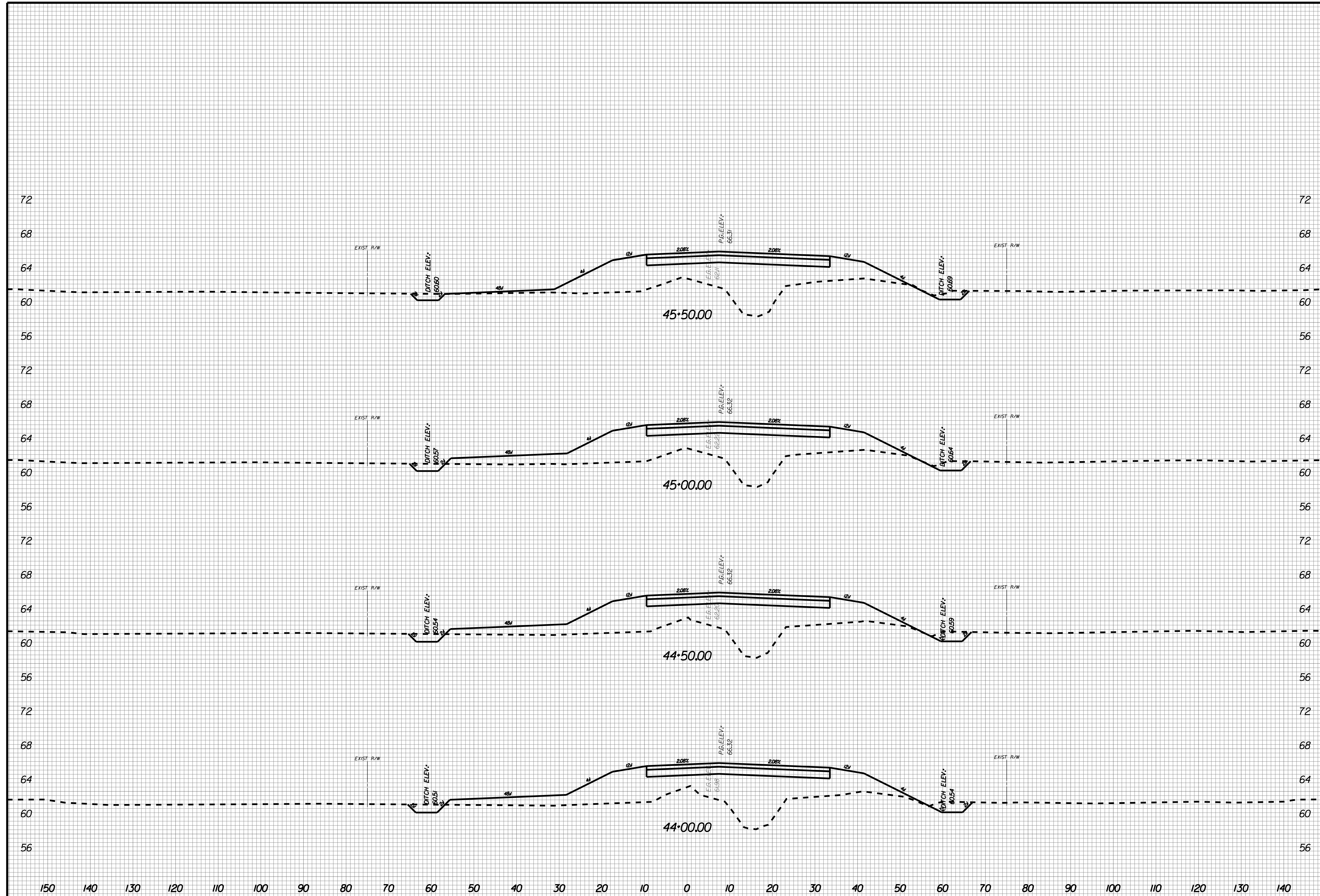
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X018



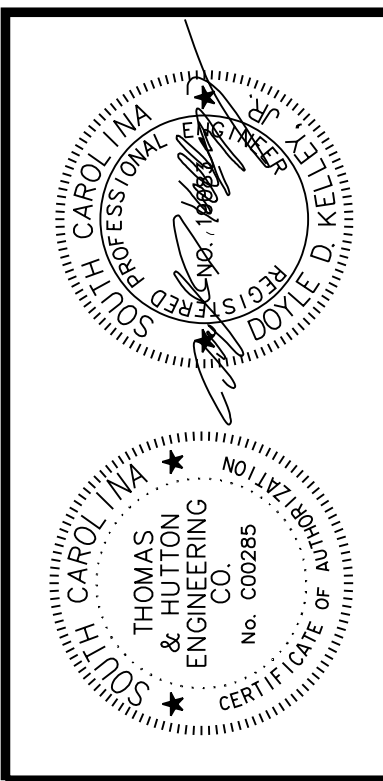
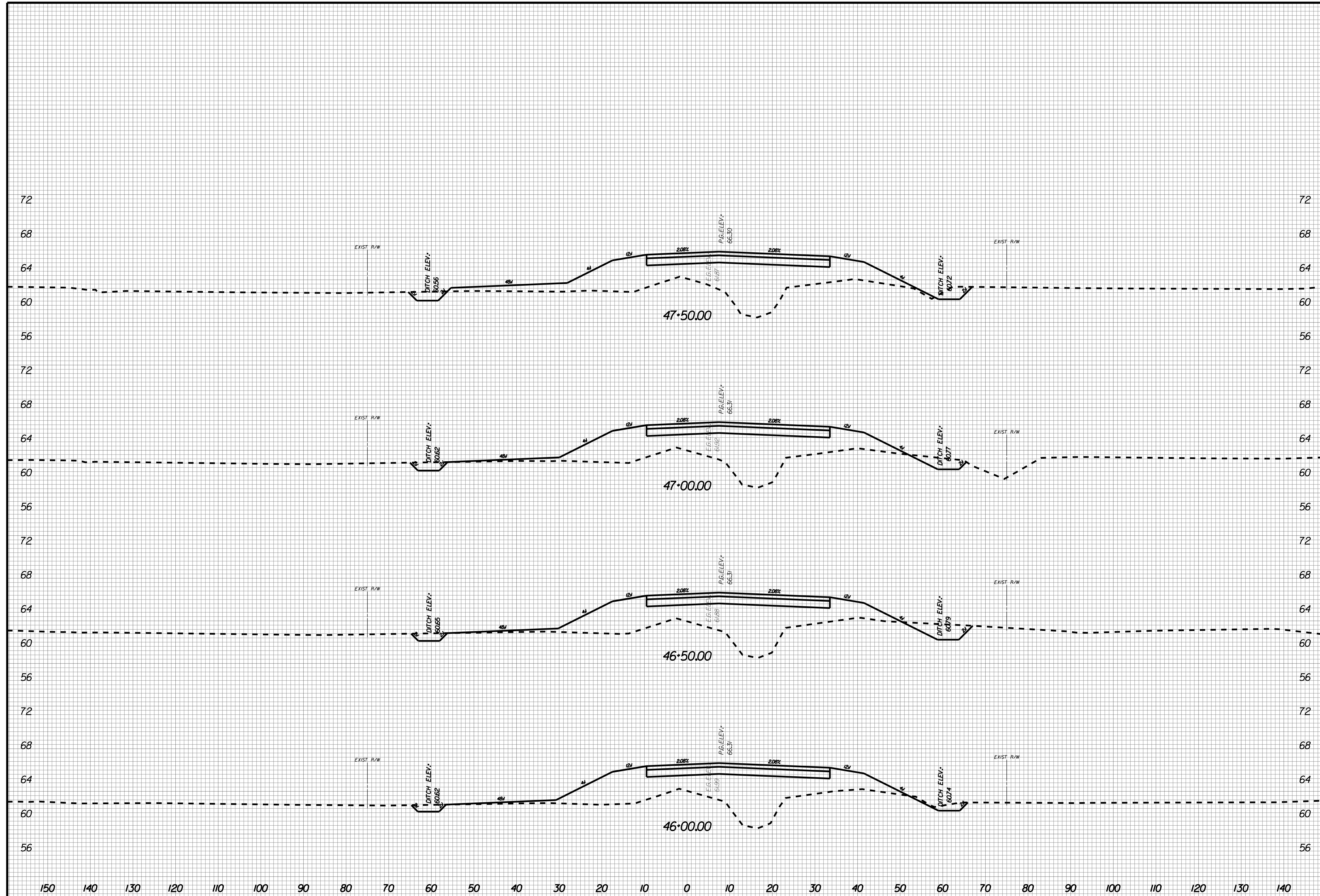
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X019



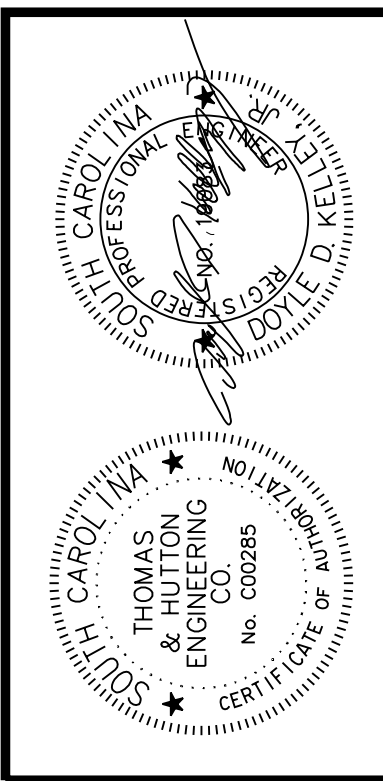
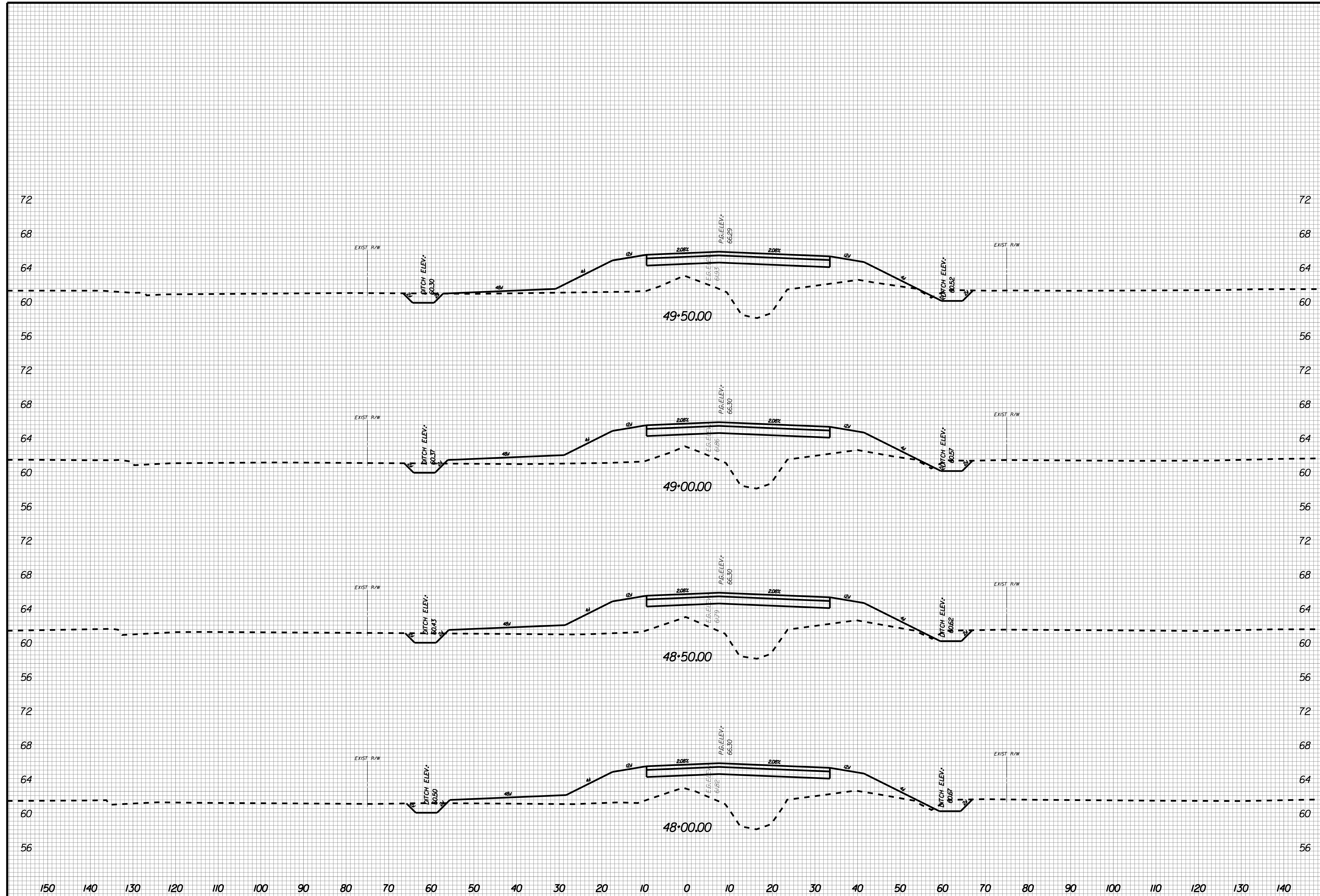
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X020



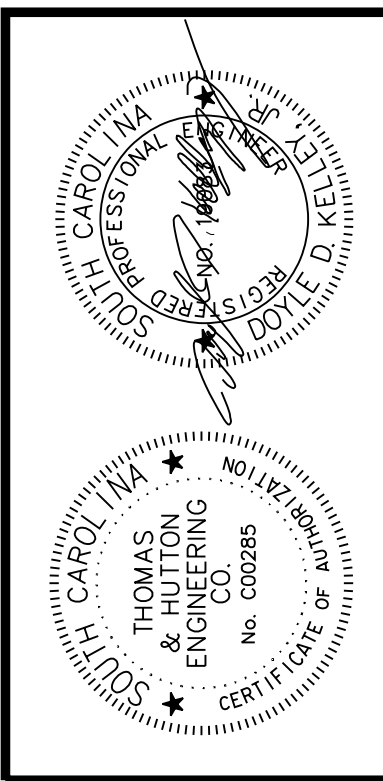
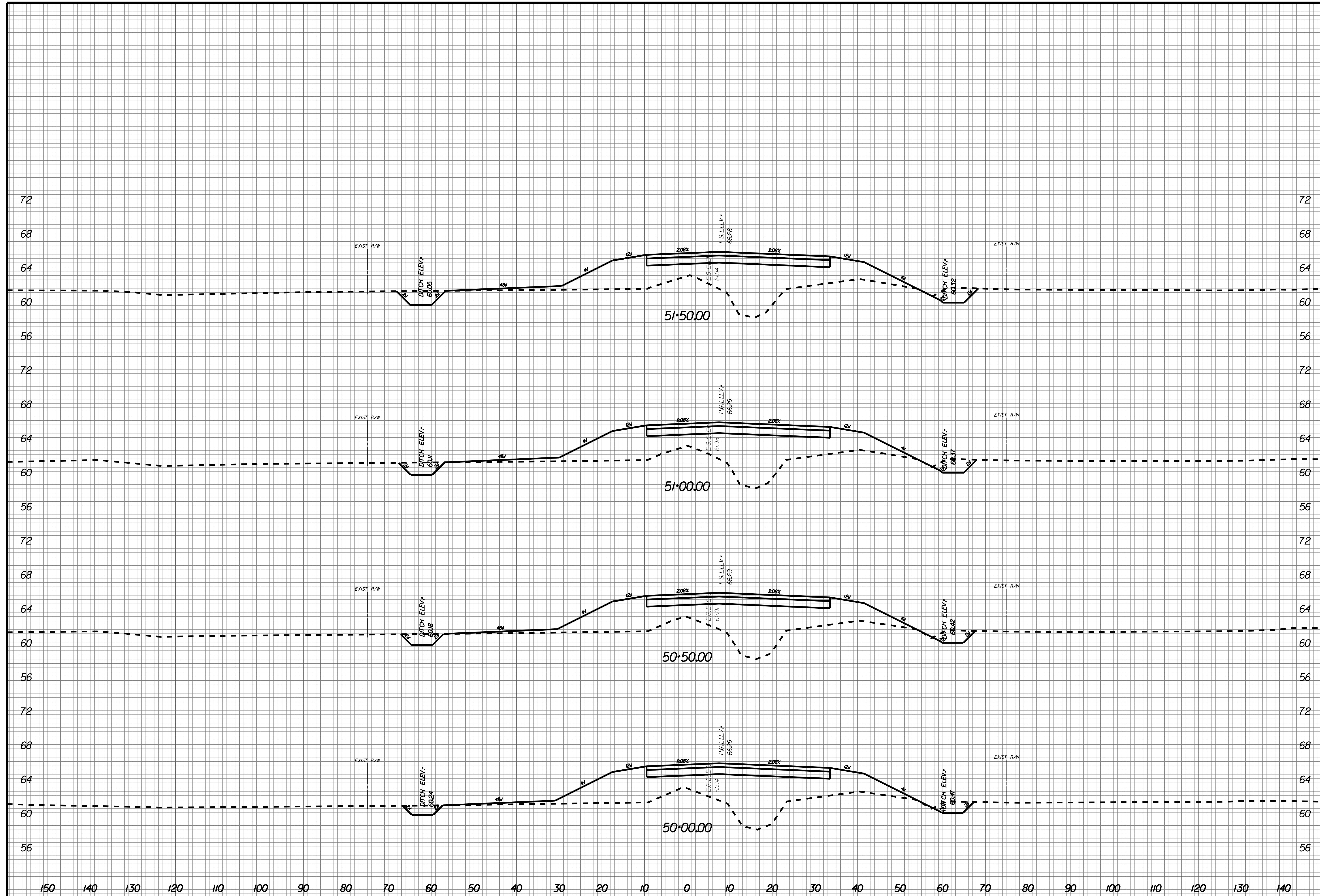
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X021



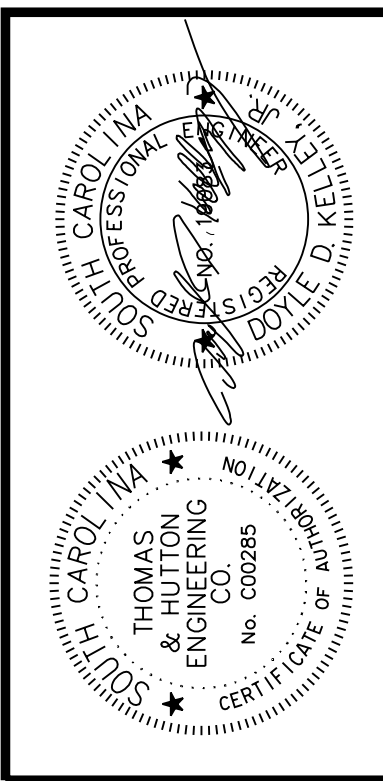
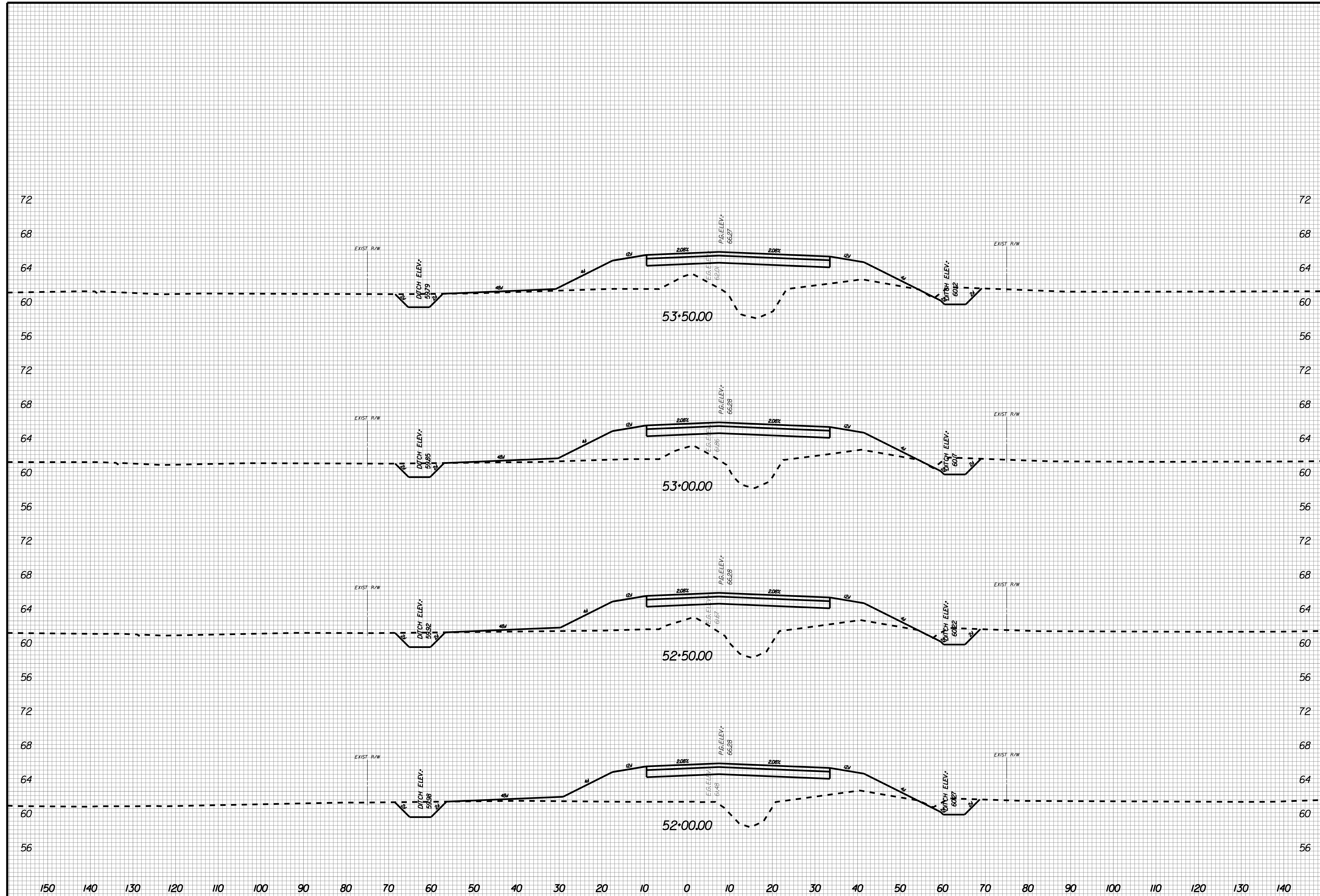
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X022



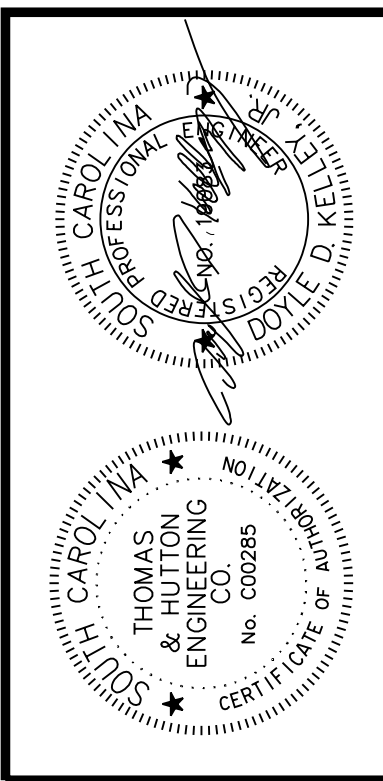
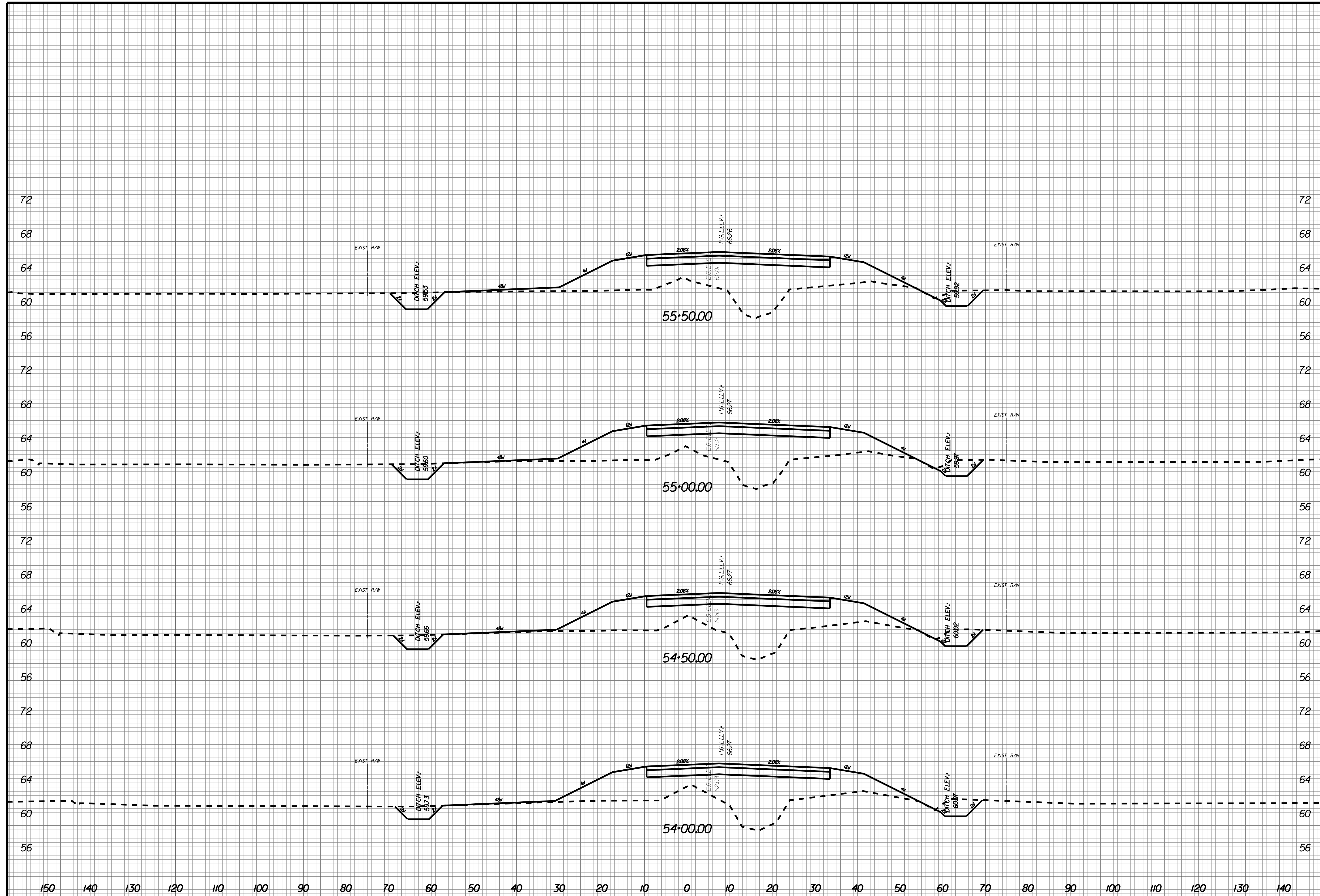
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X023



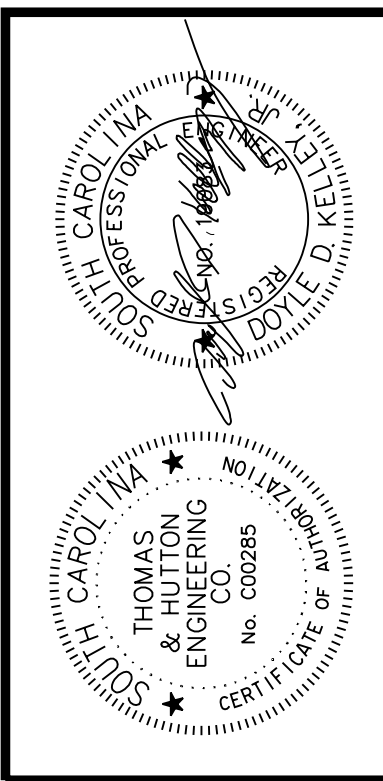
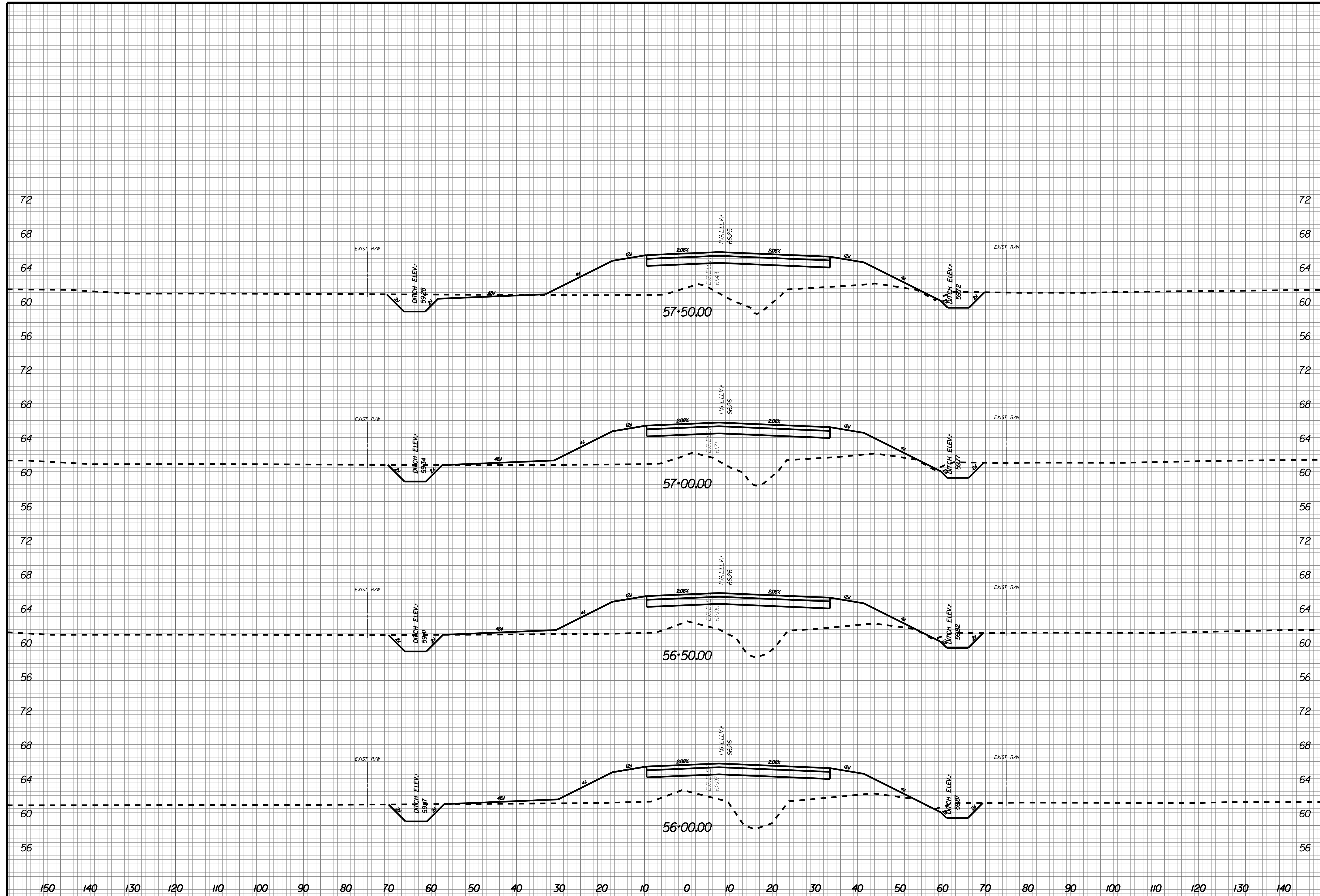
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X024



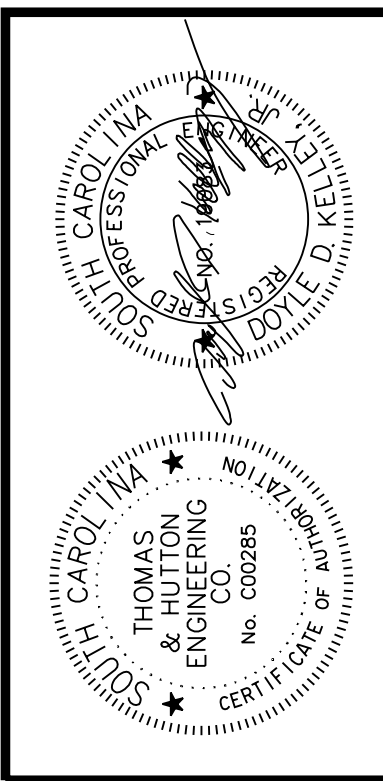
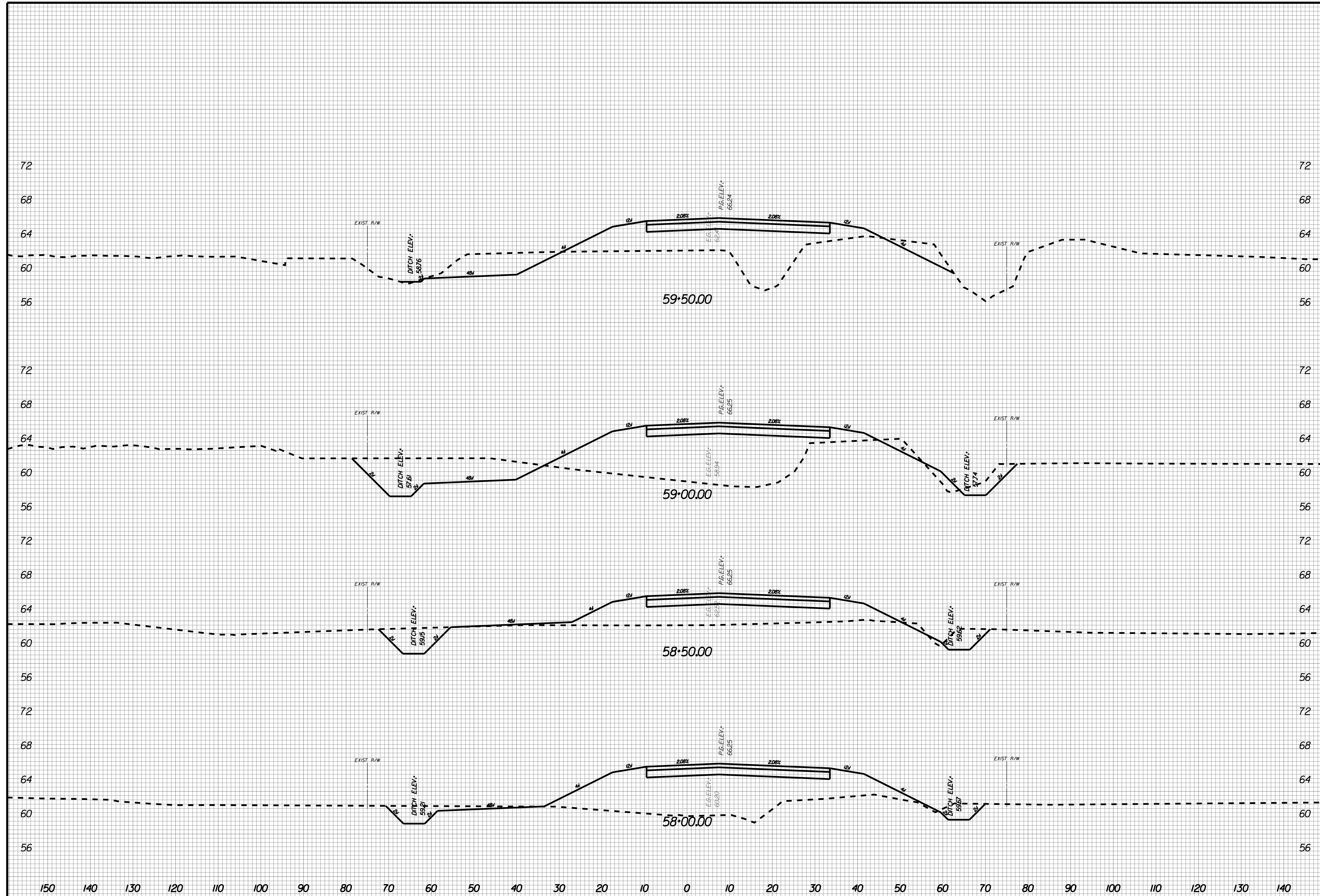
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X025



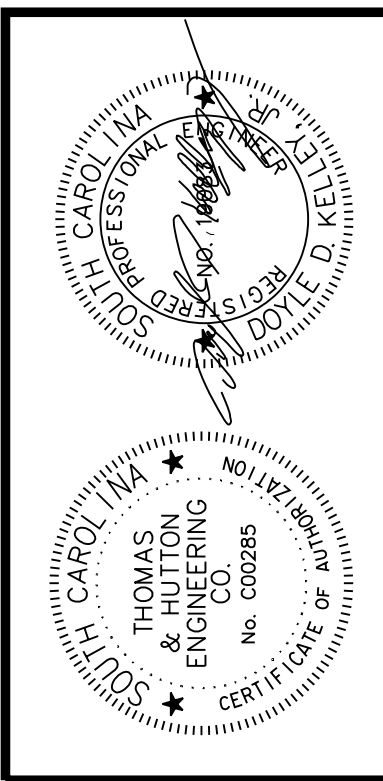
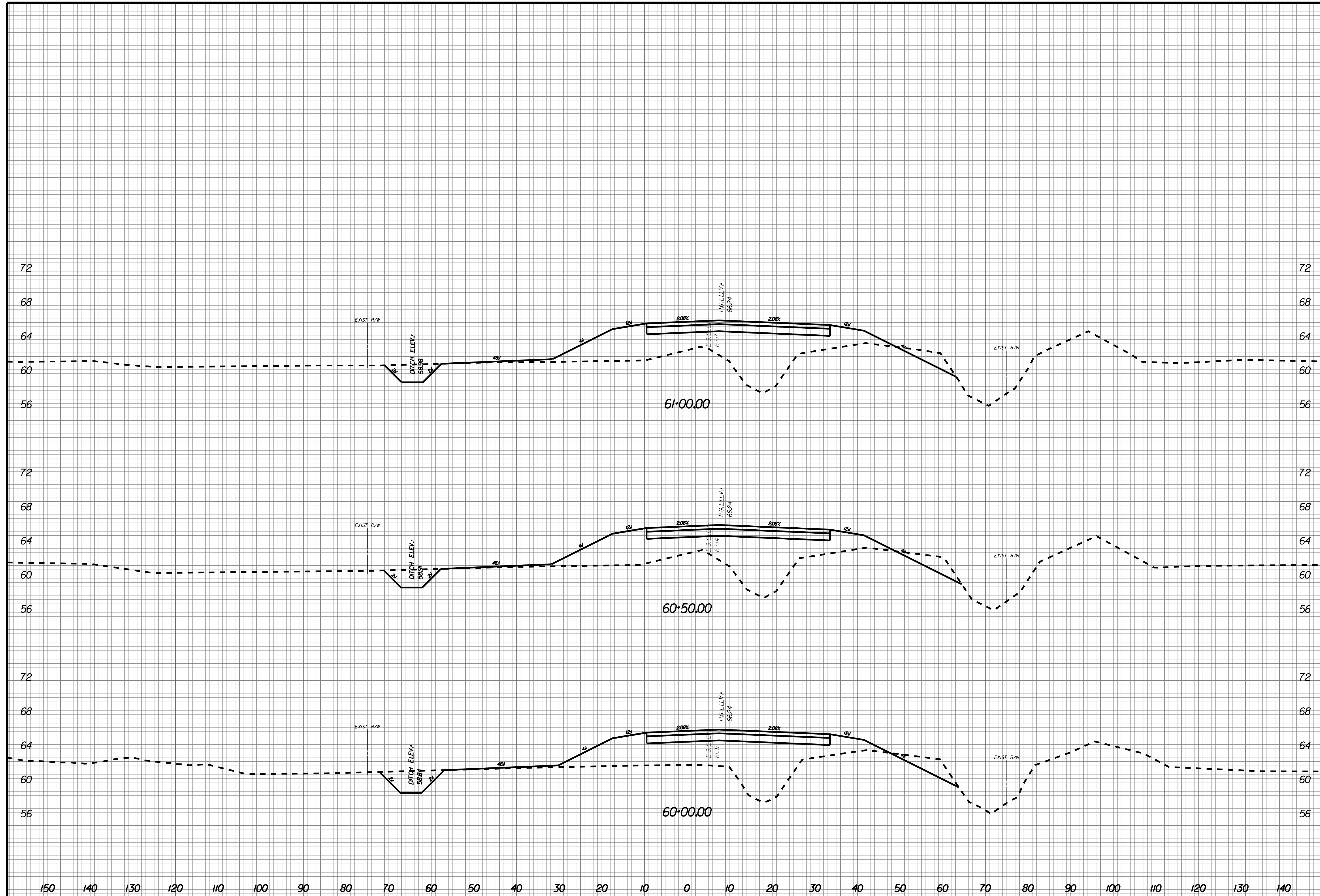
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X026



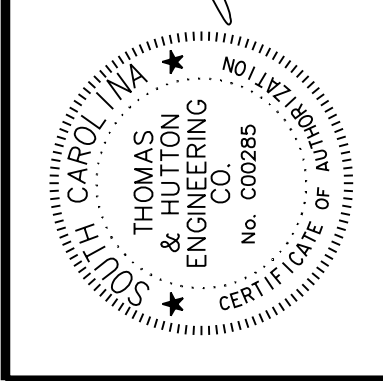
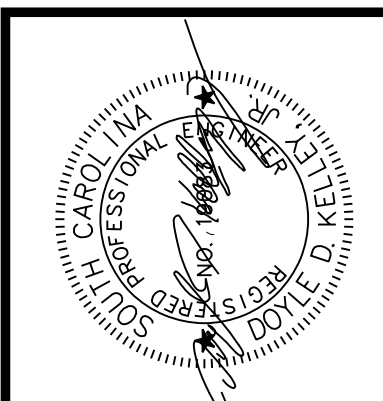
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X027



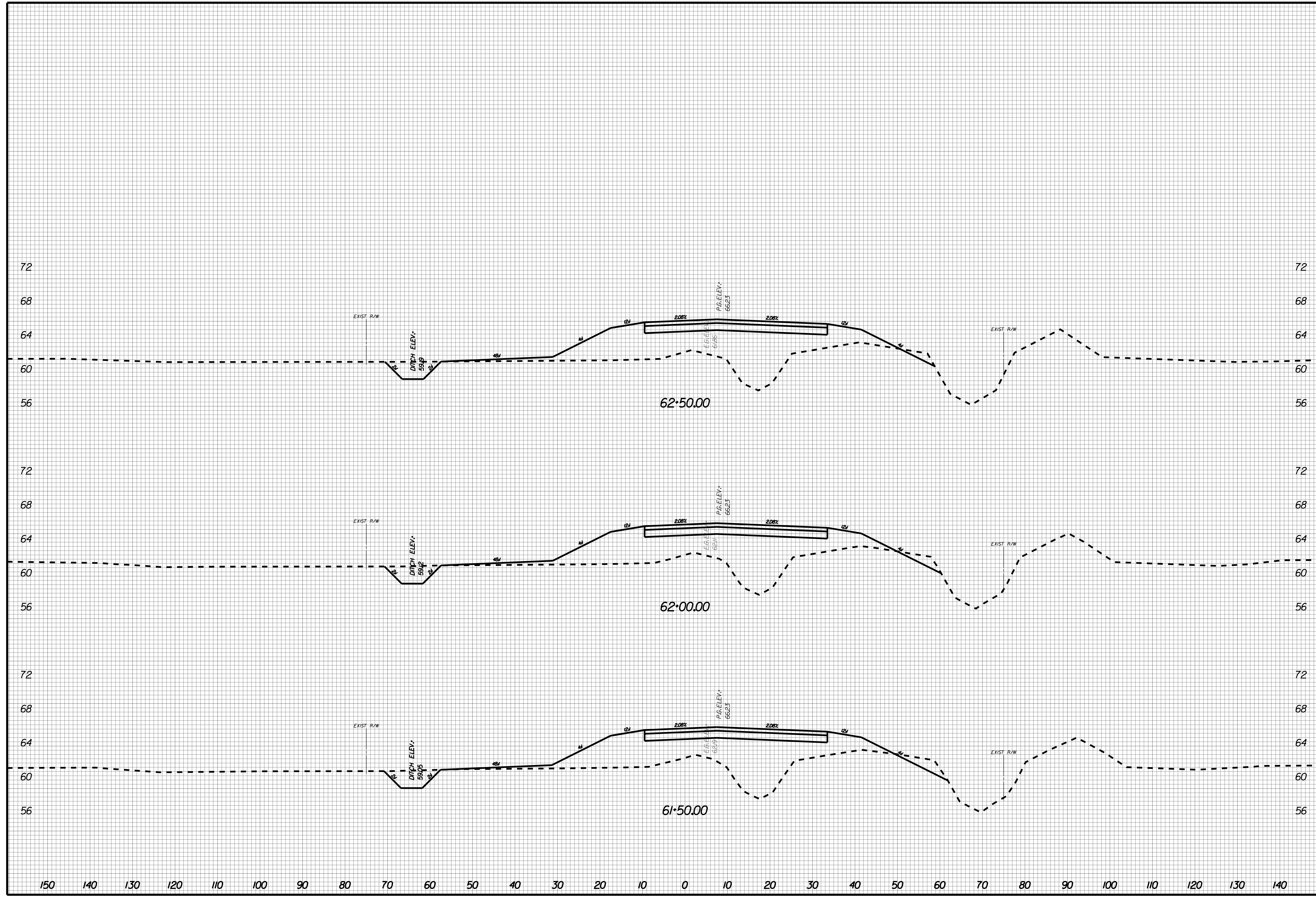
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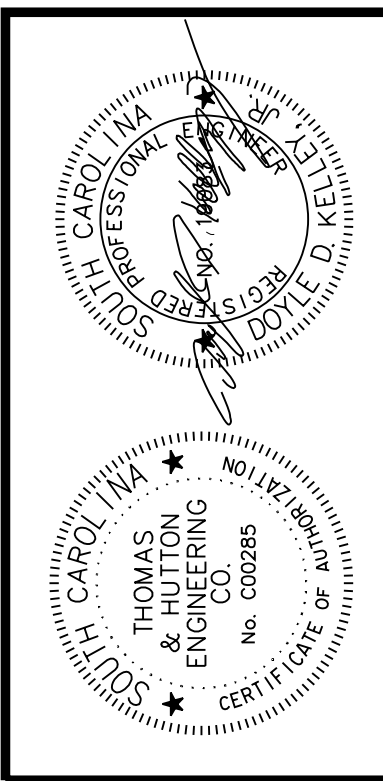
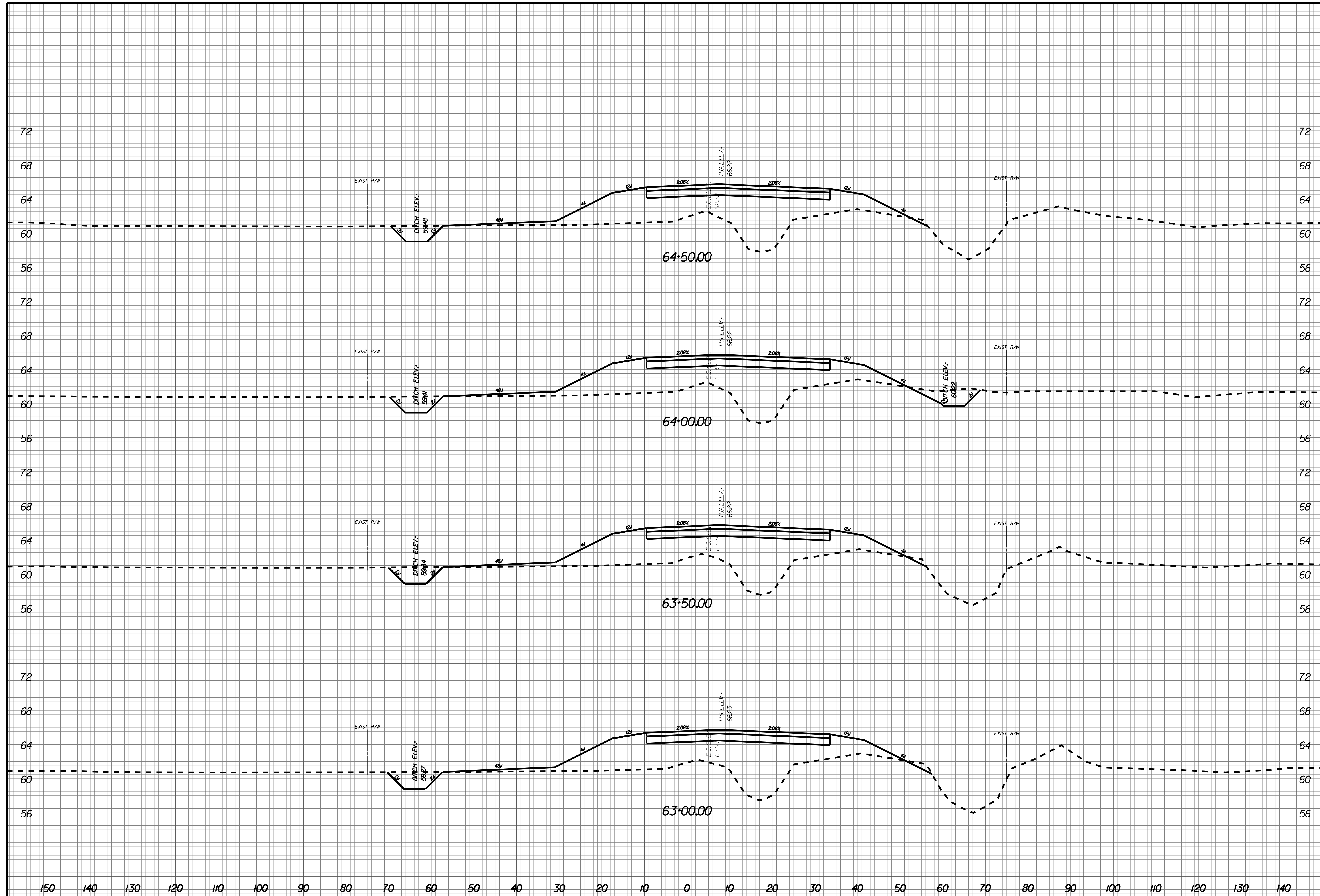
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X028





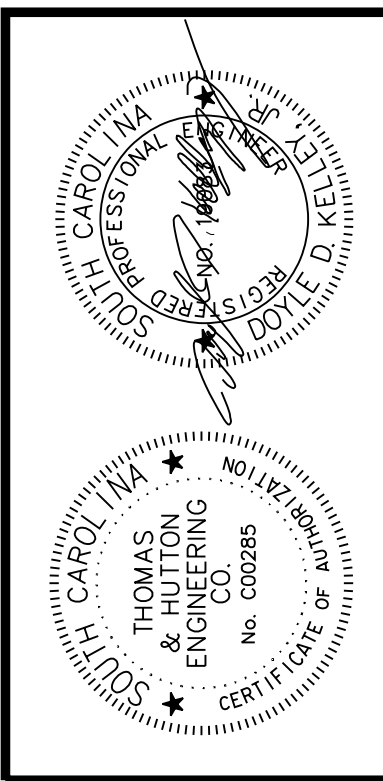
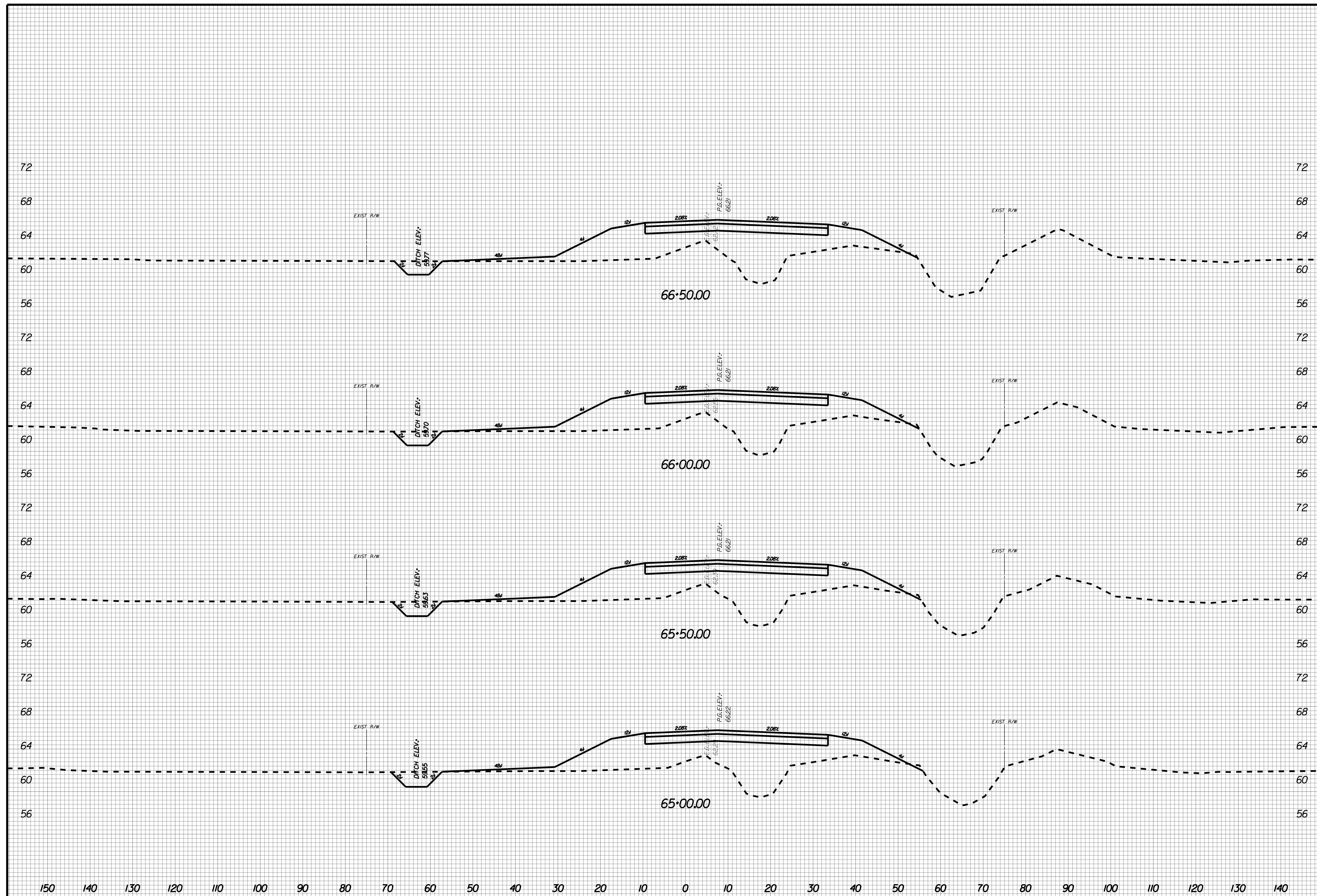
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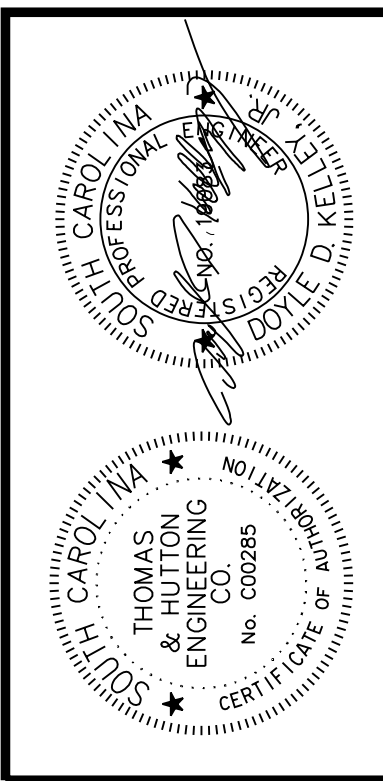
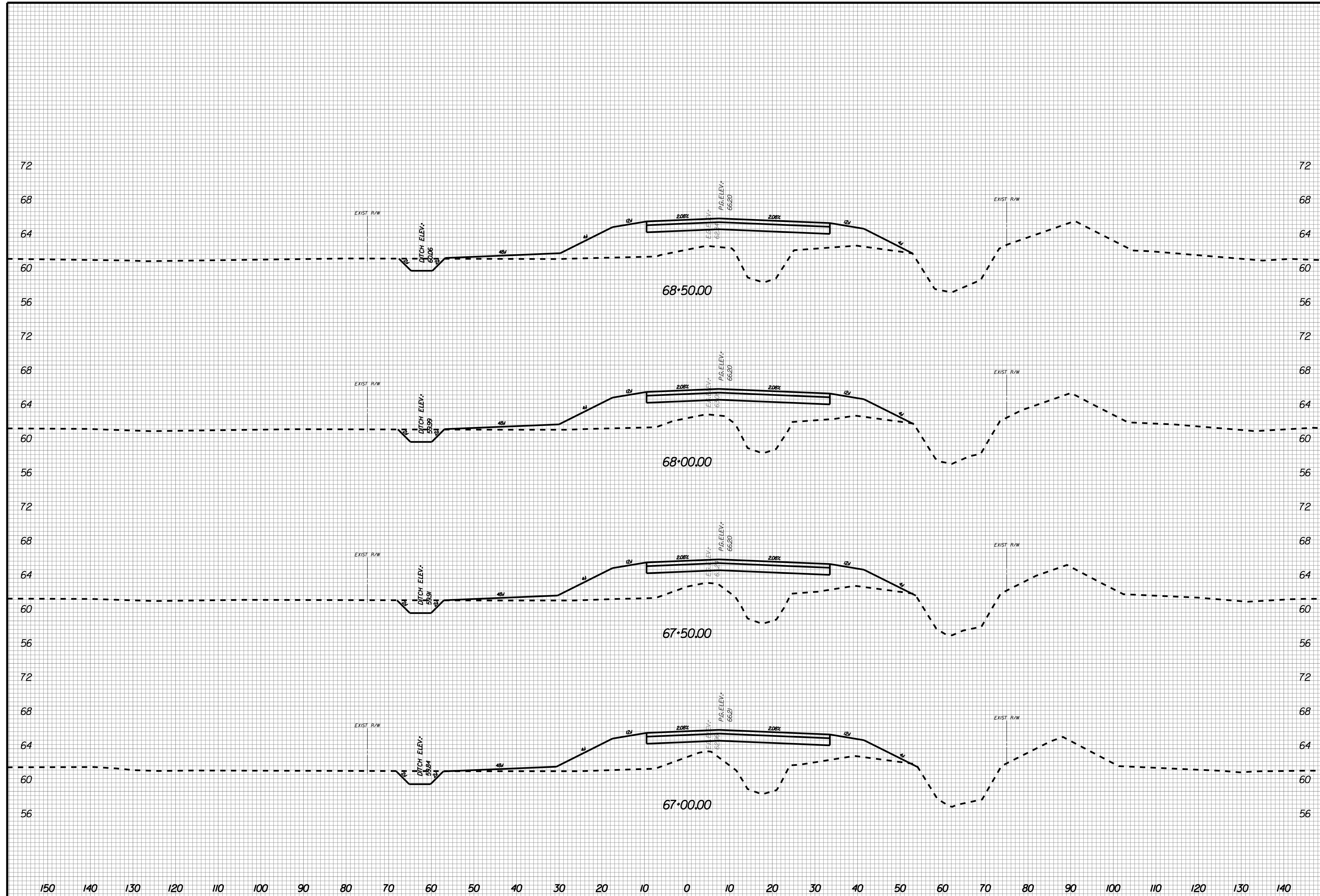
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X030



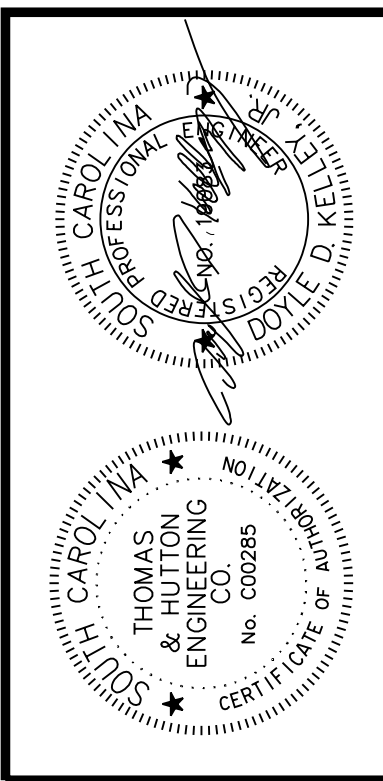
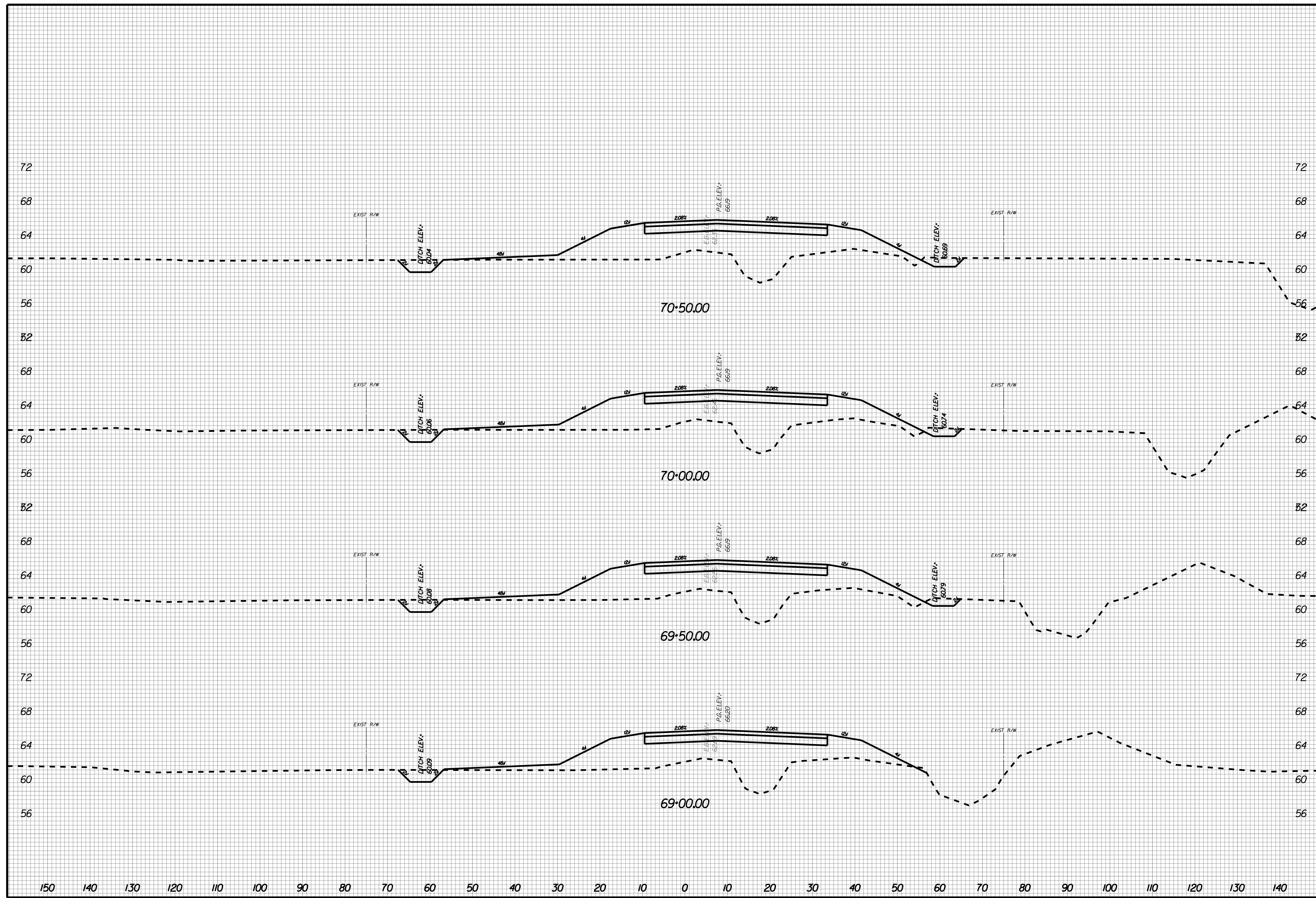
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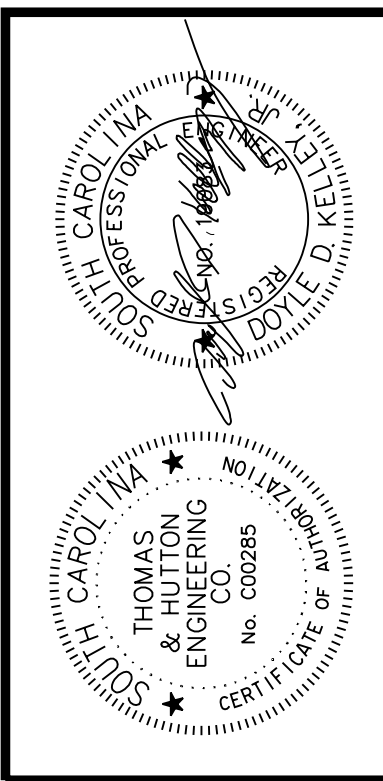
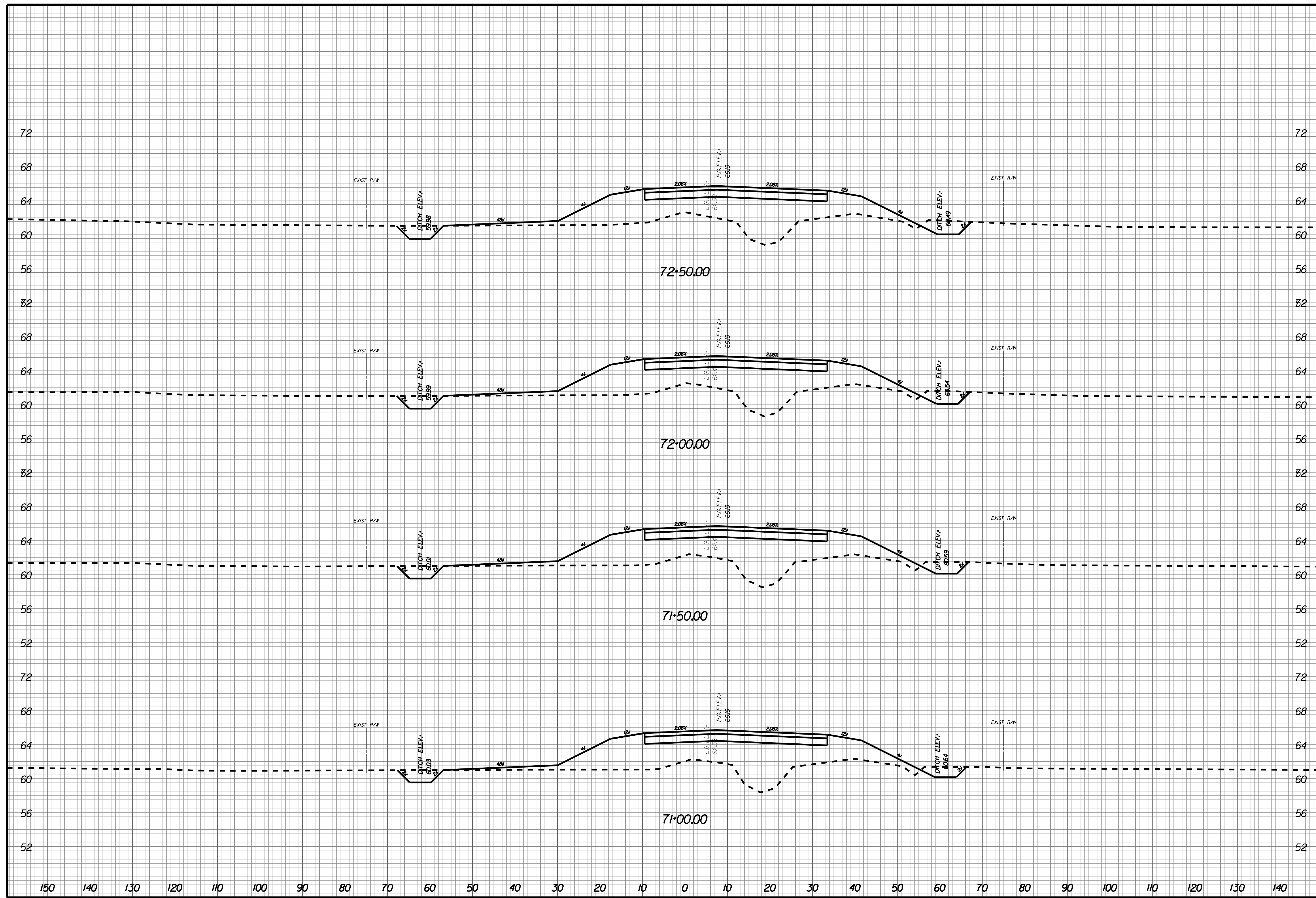
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X032



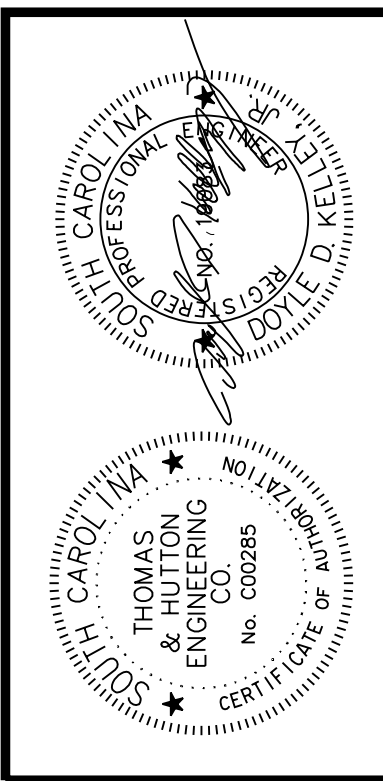
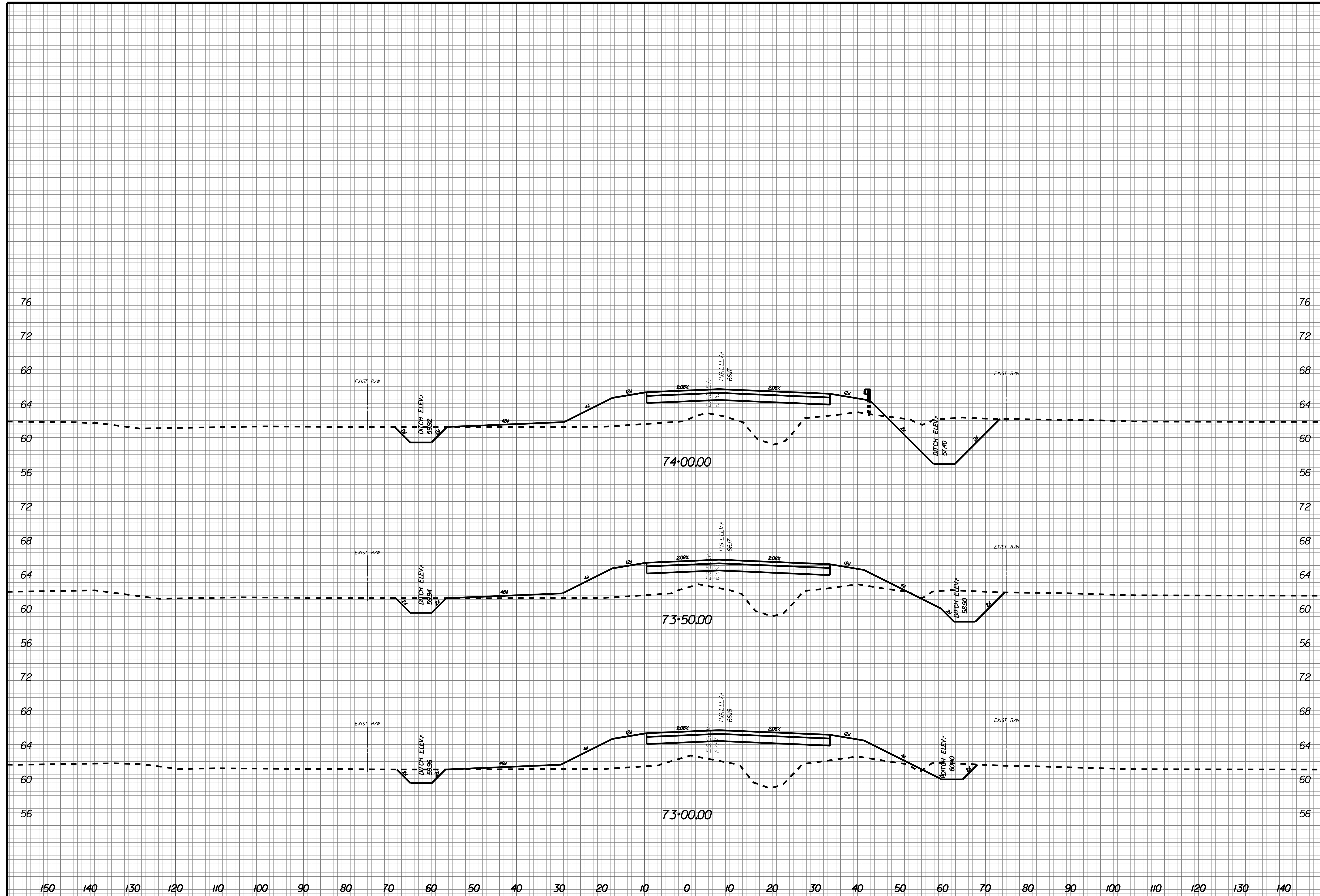
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 SCALE: AS NOTED

X033



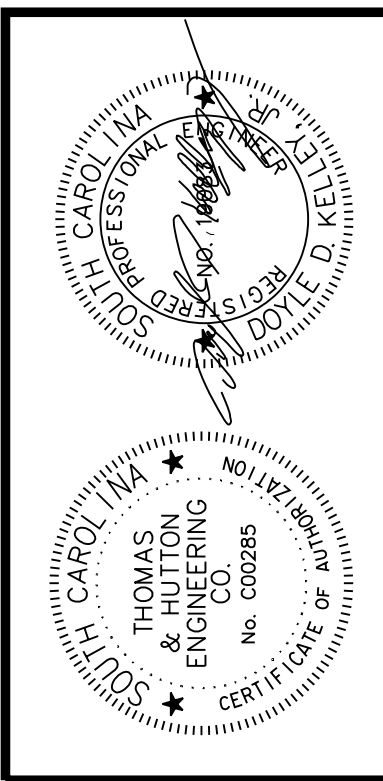
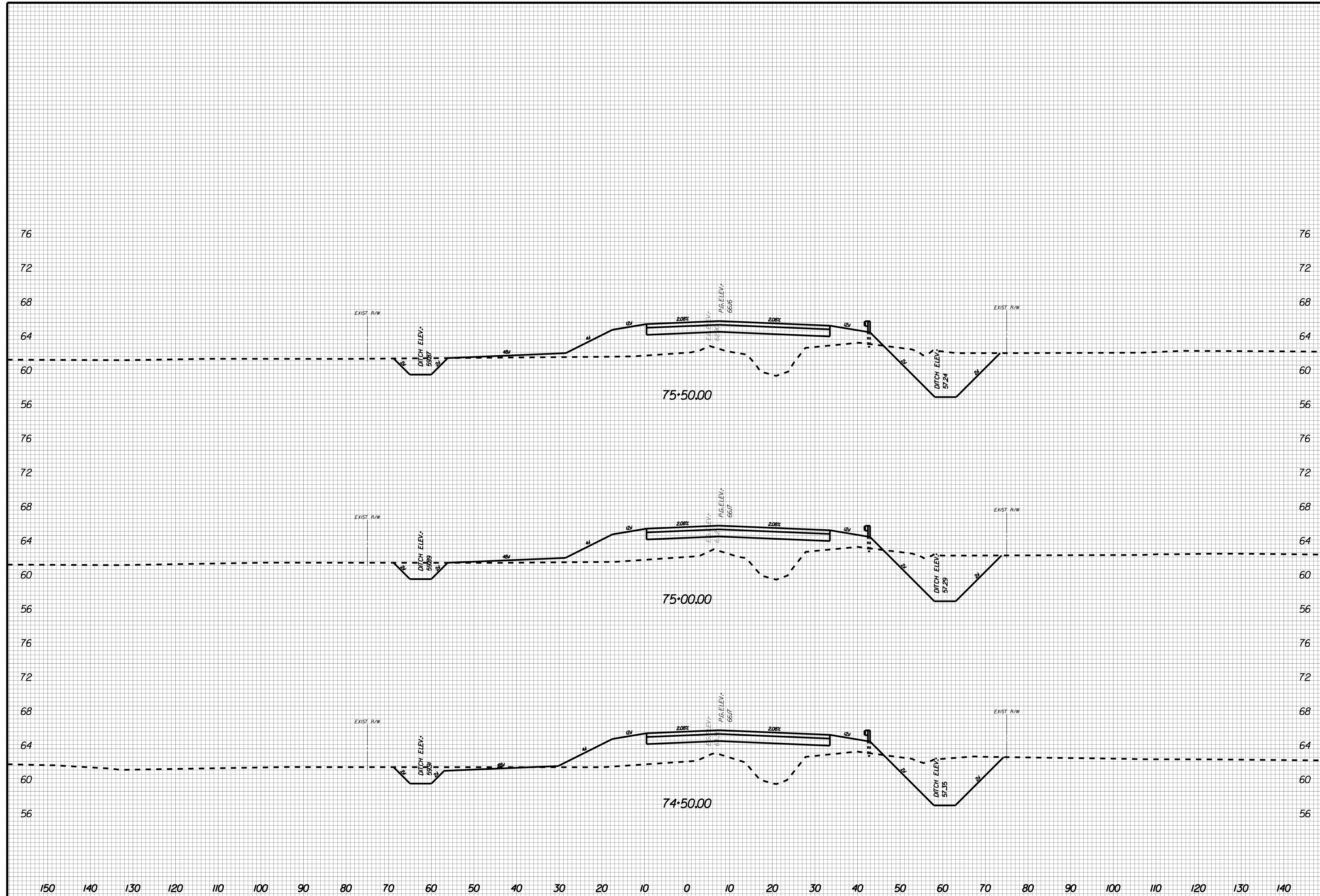
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X034



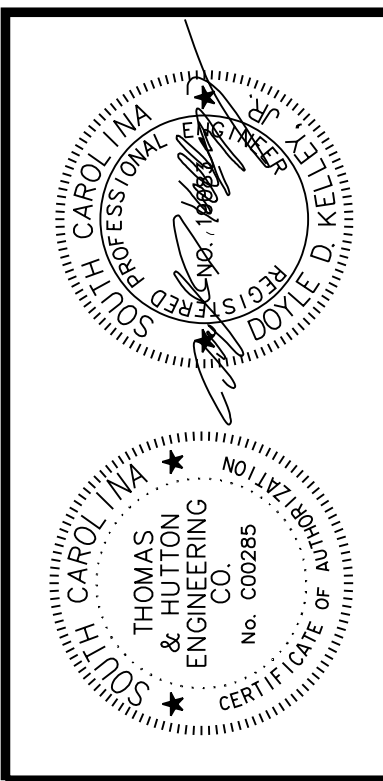
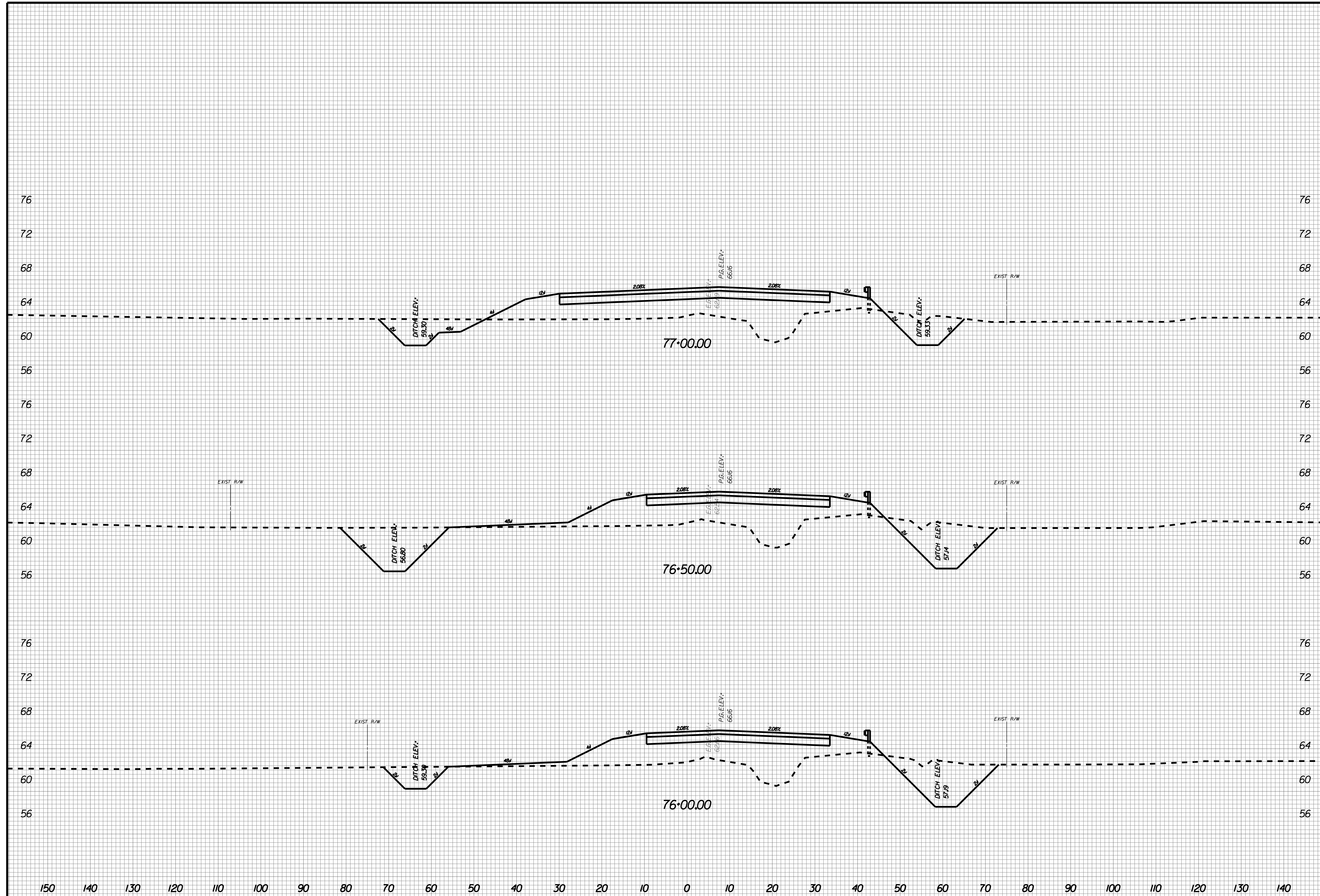
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X035



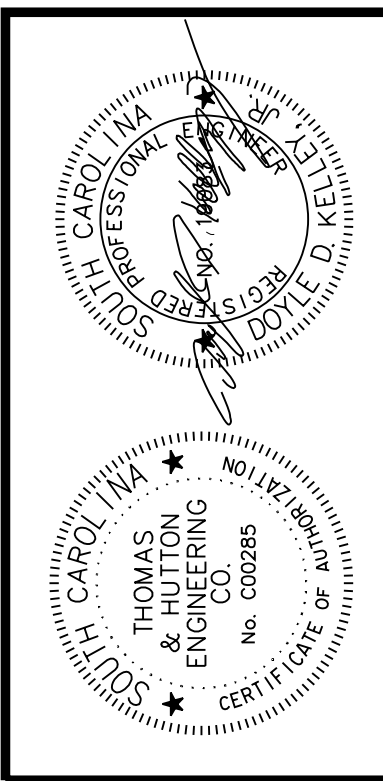
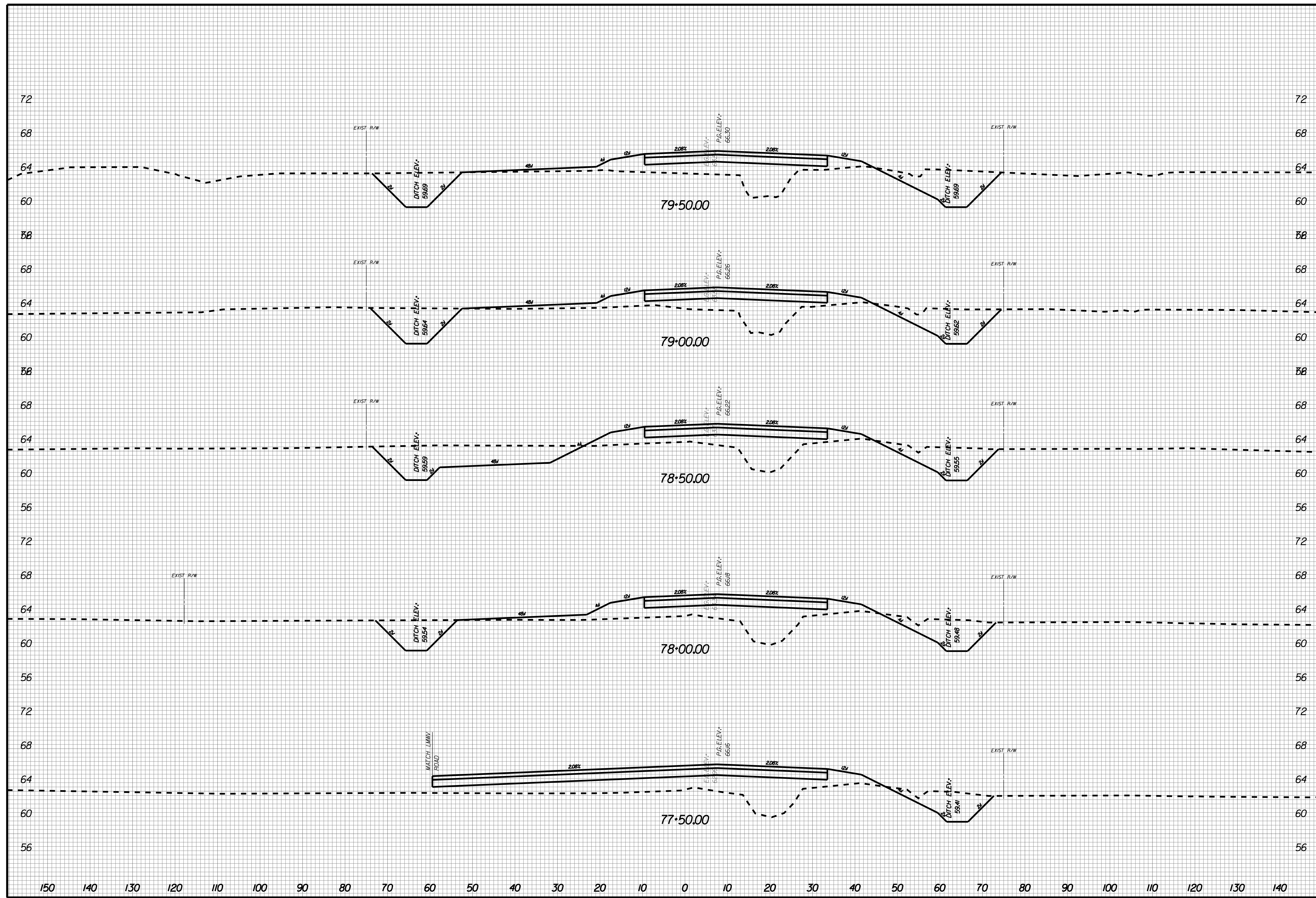
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X036



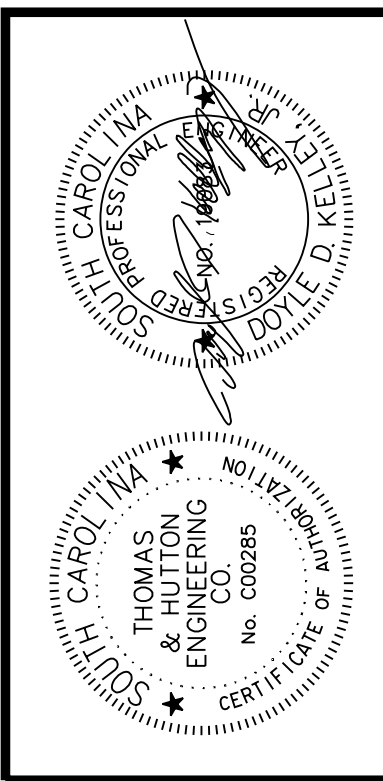
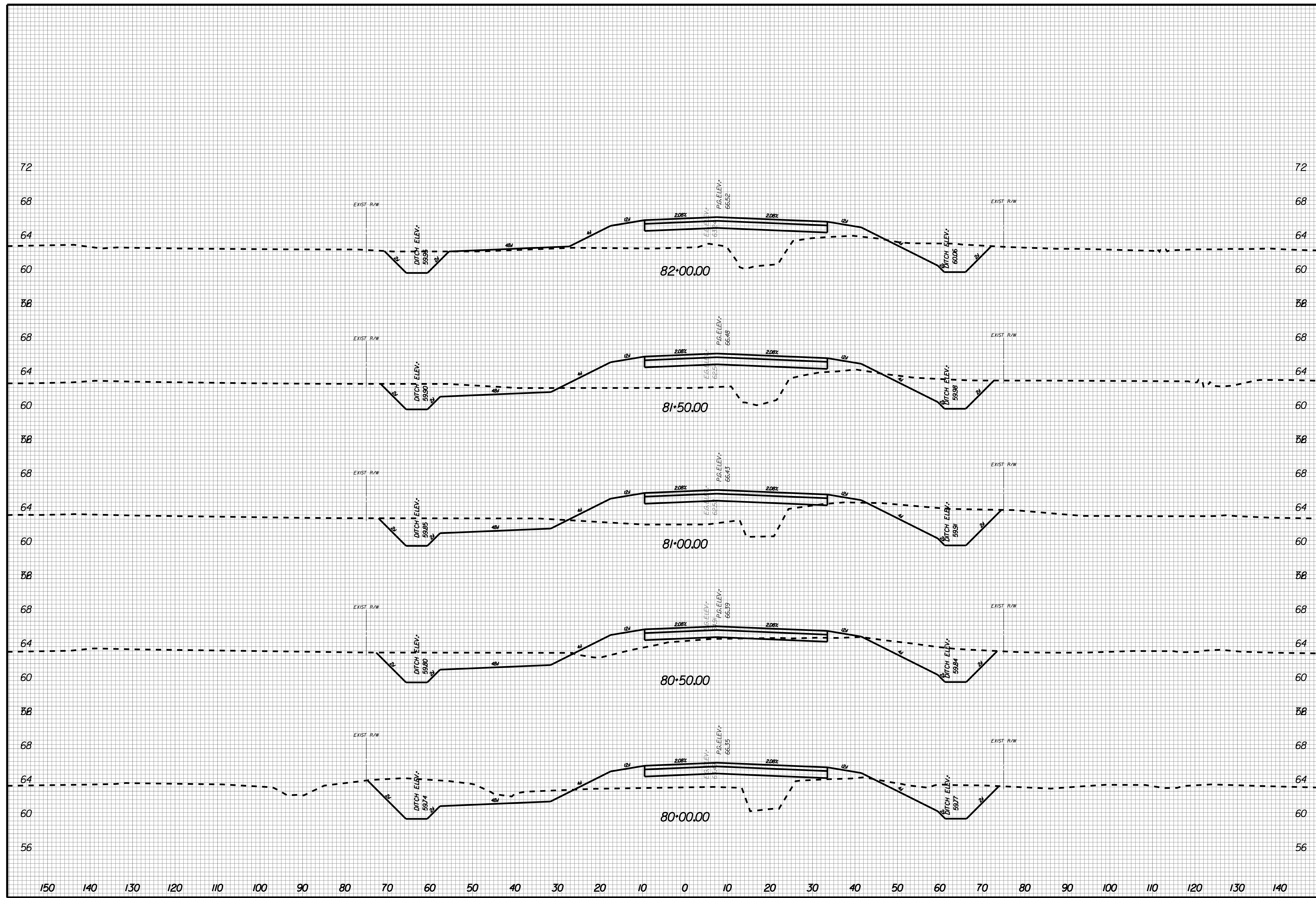
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X037



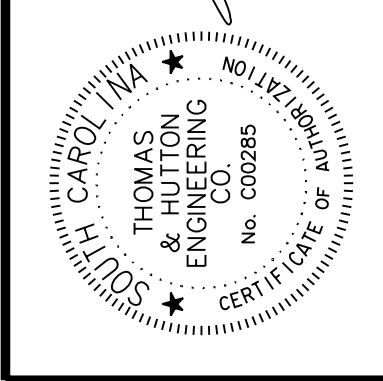
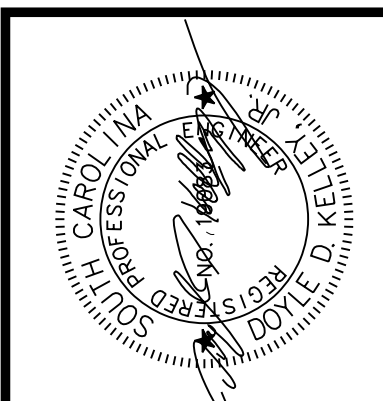
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X038



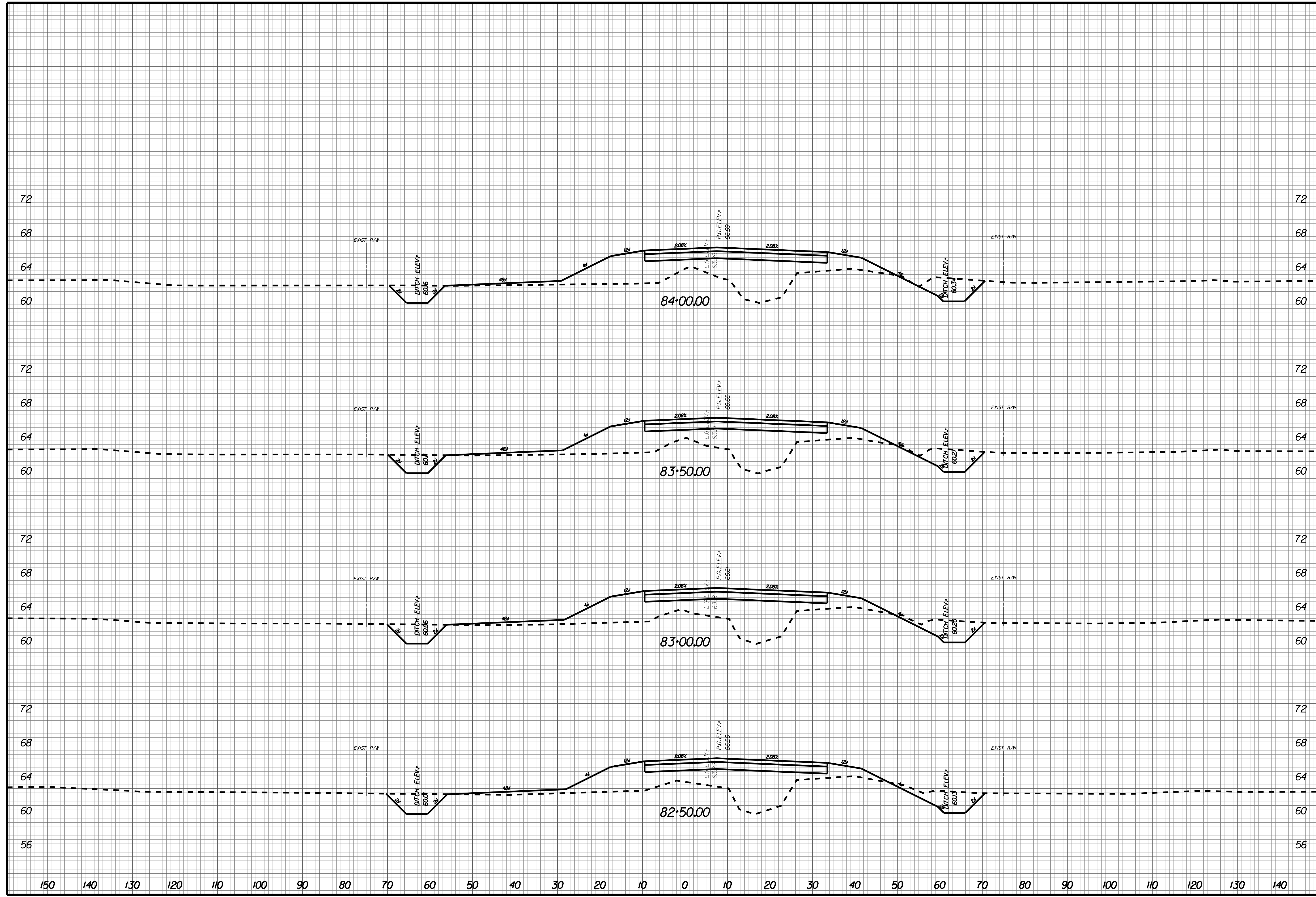
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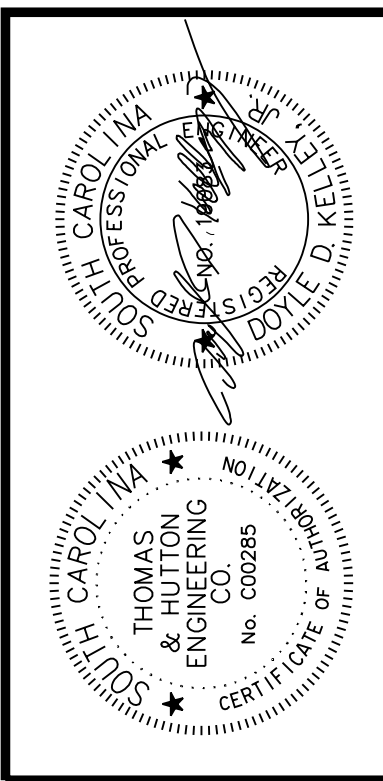
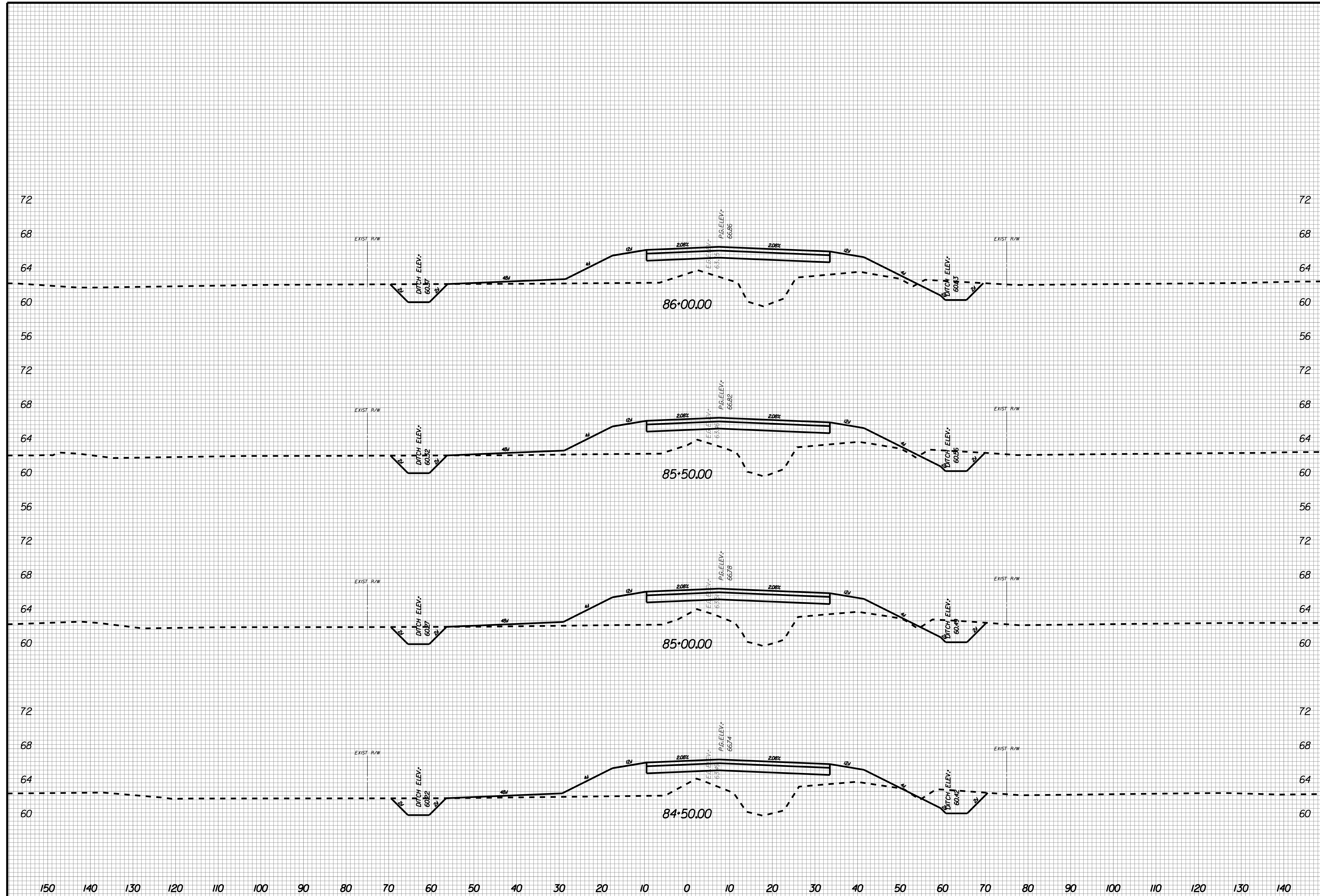
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X039





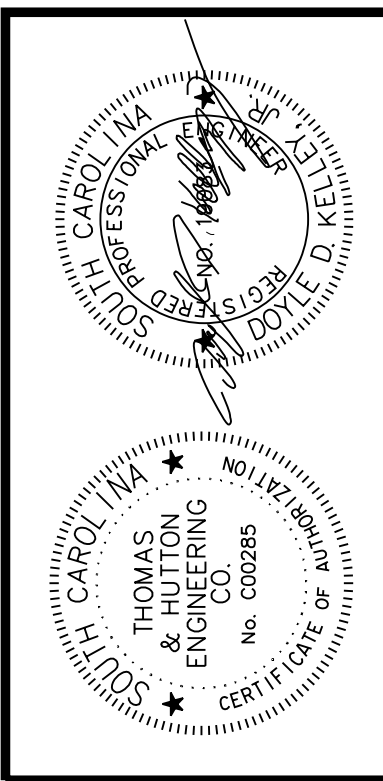
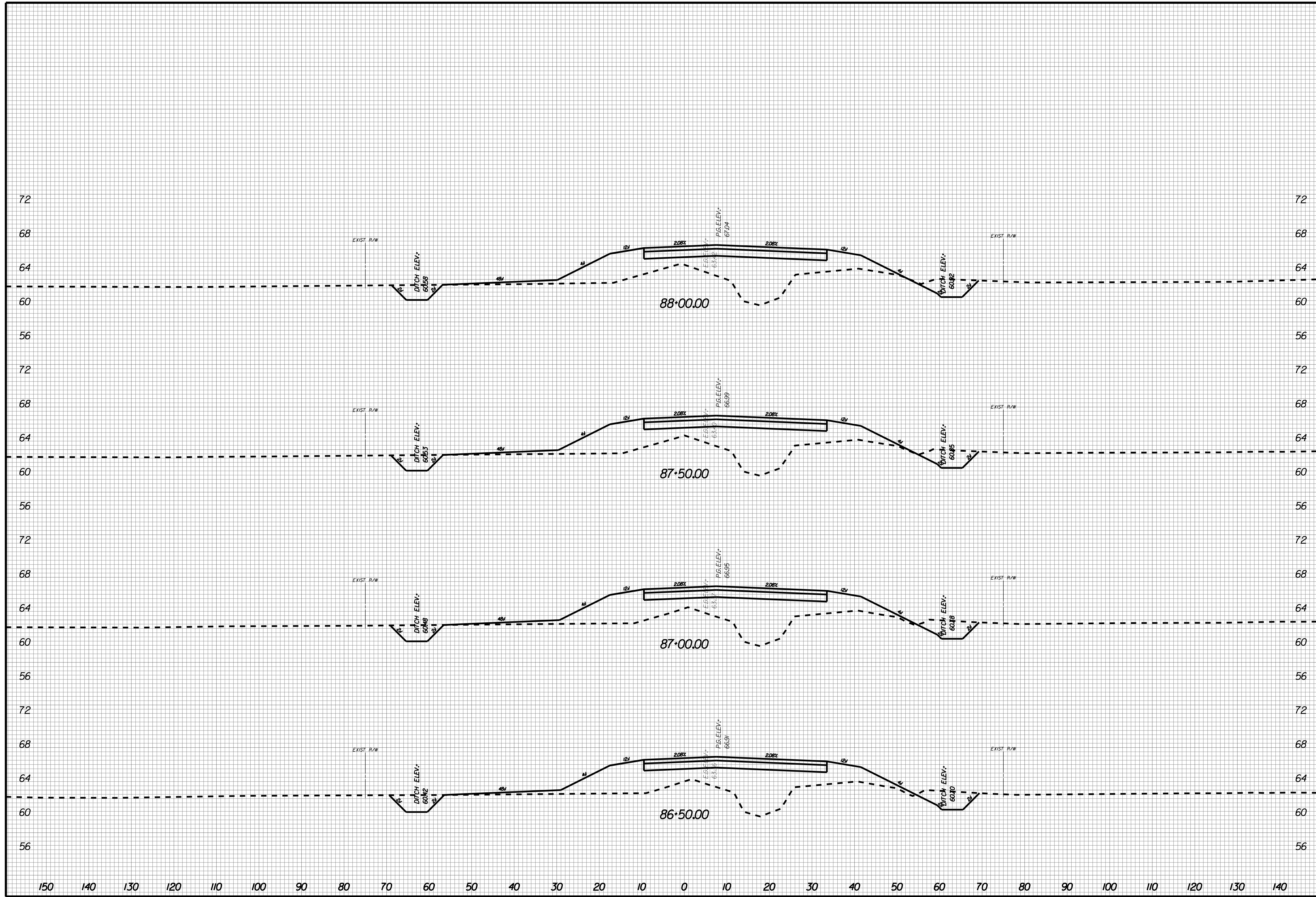
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X040



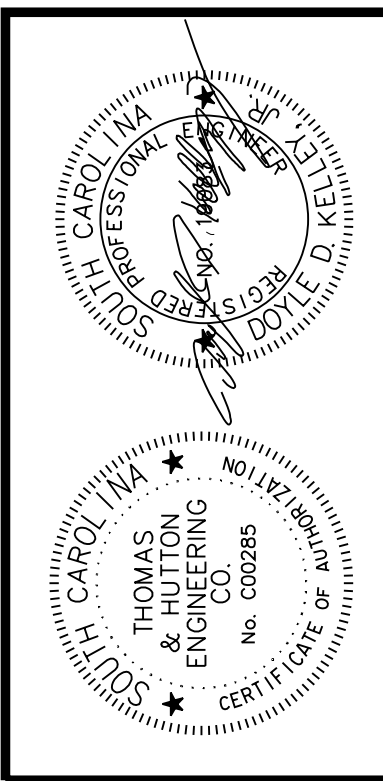
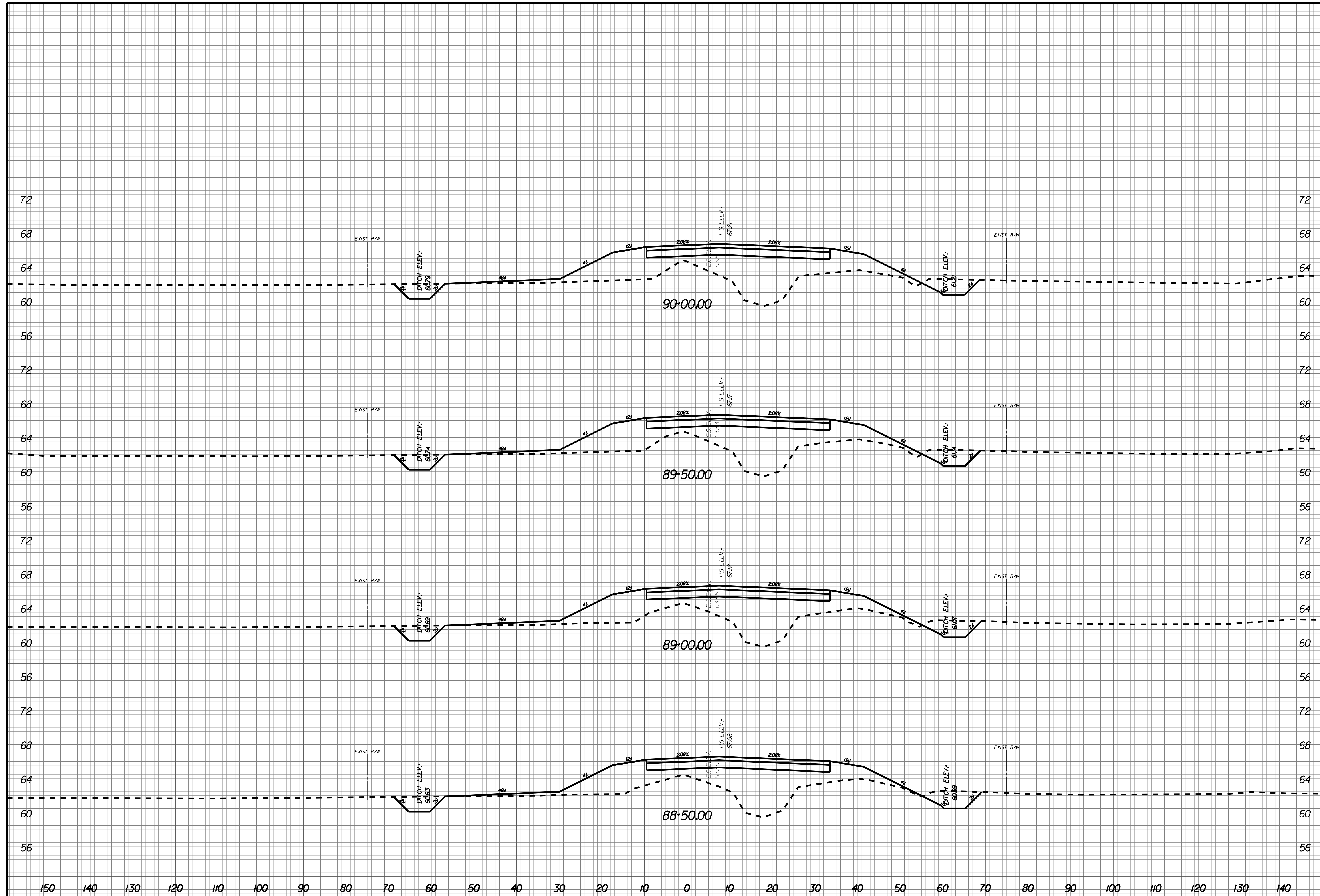
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X041



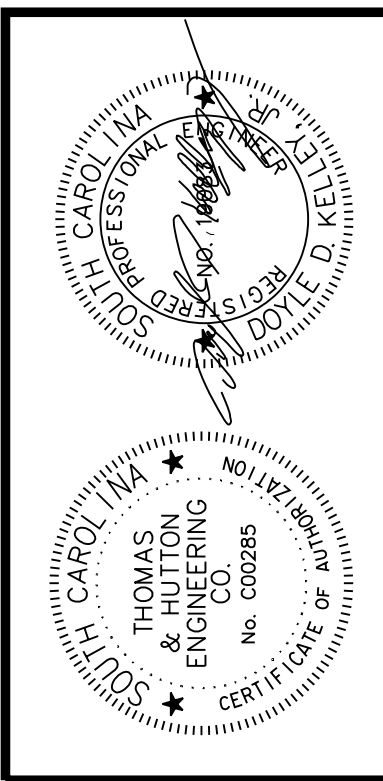
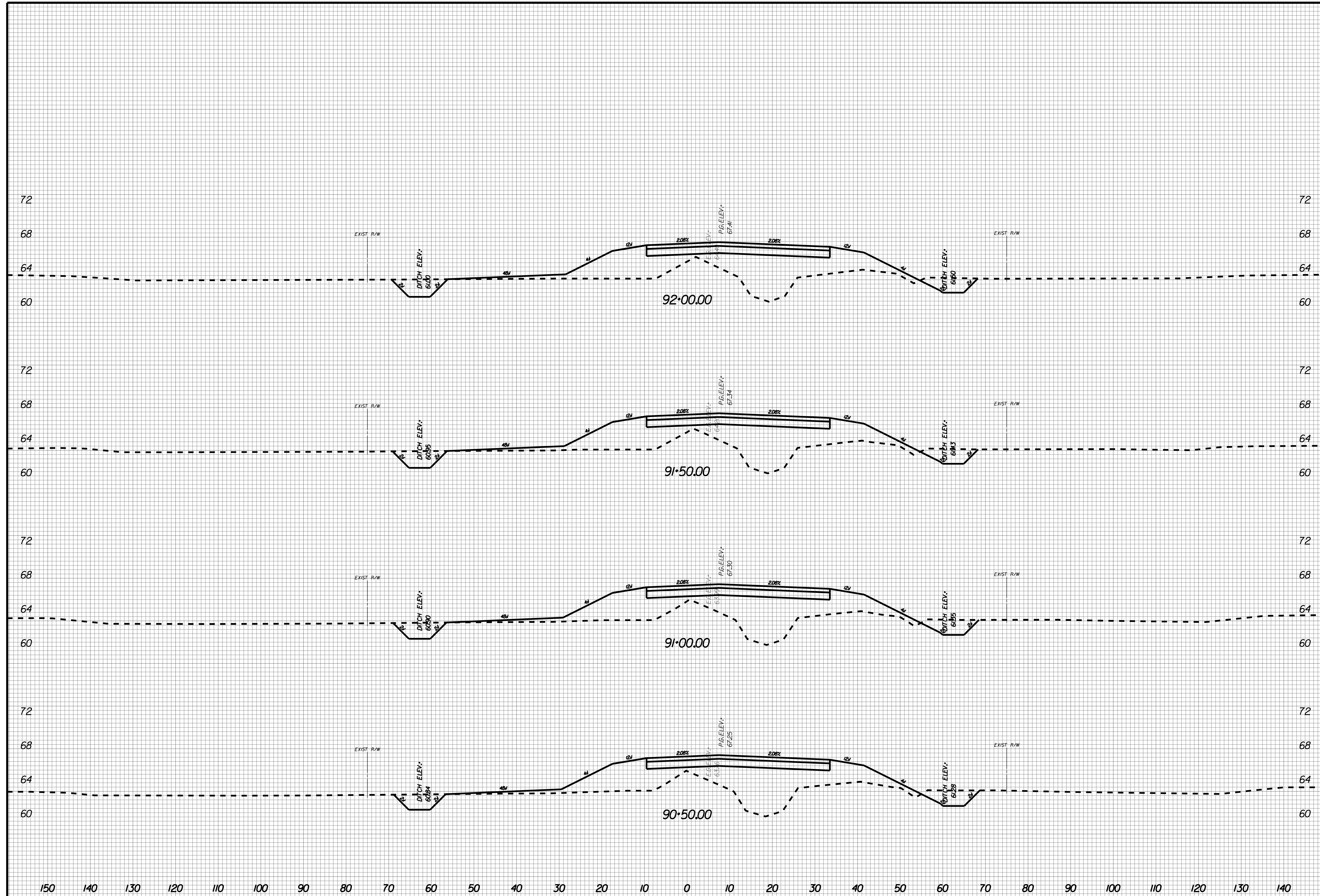
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X042



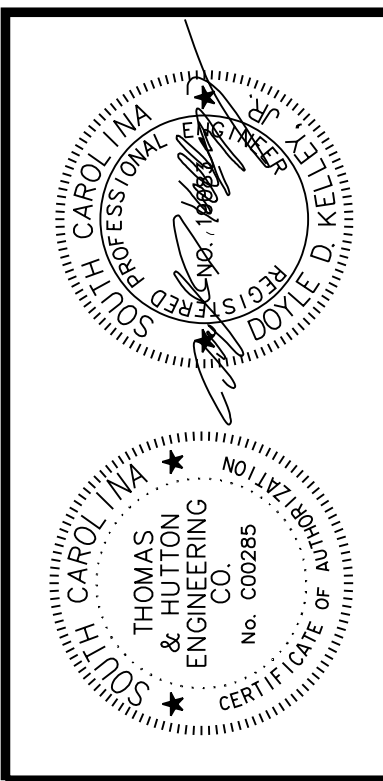
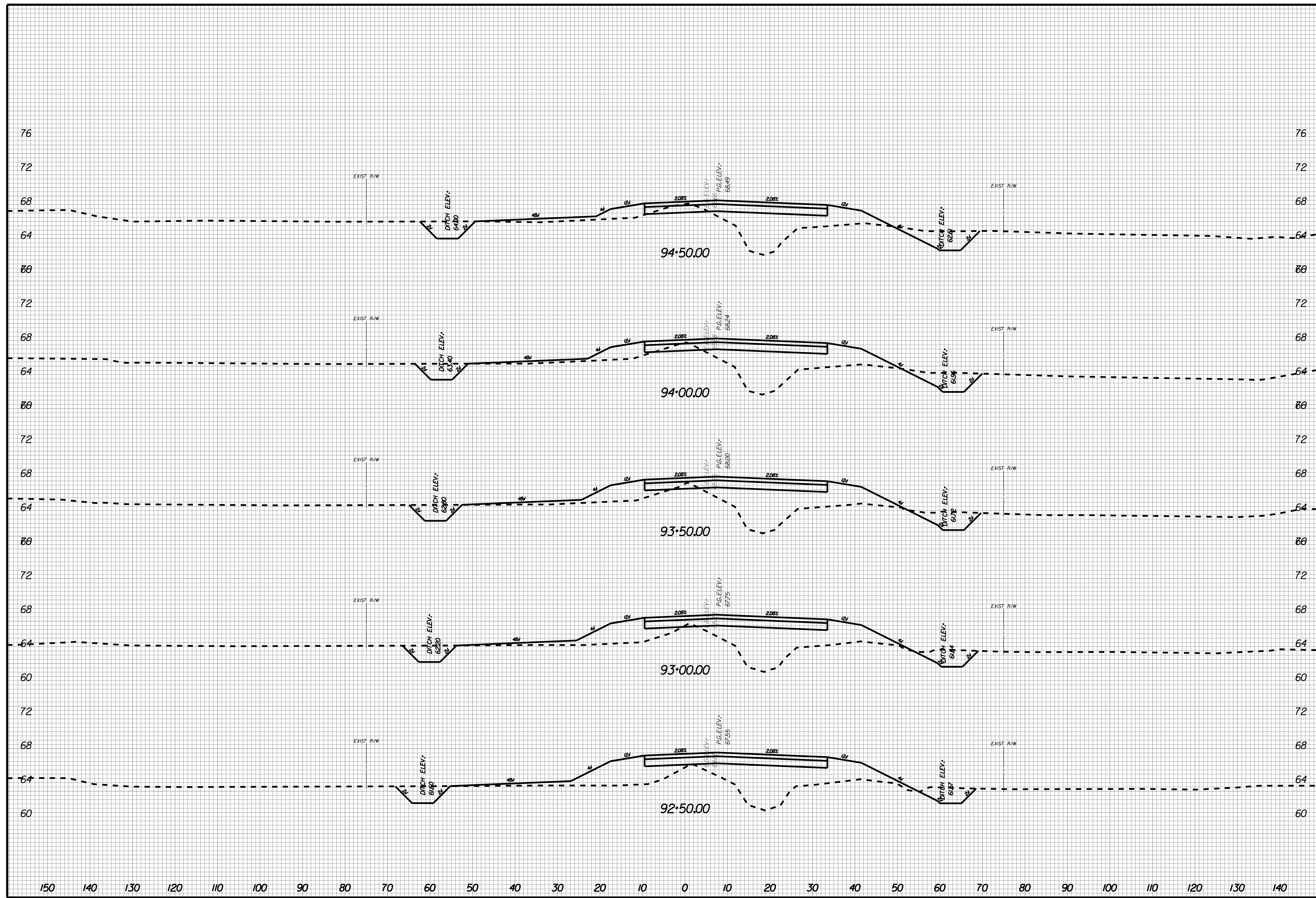
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X043



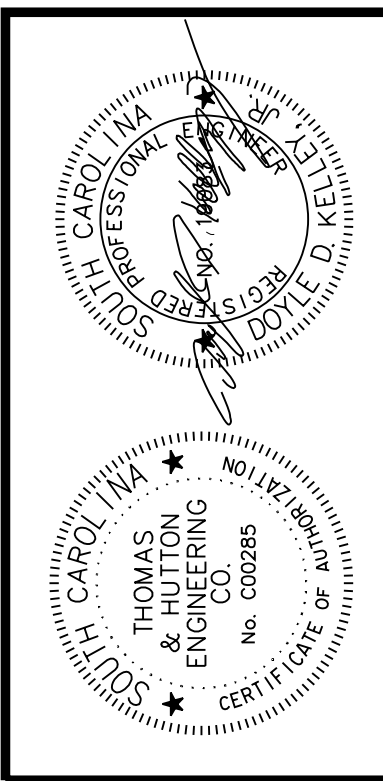
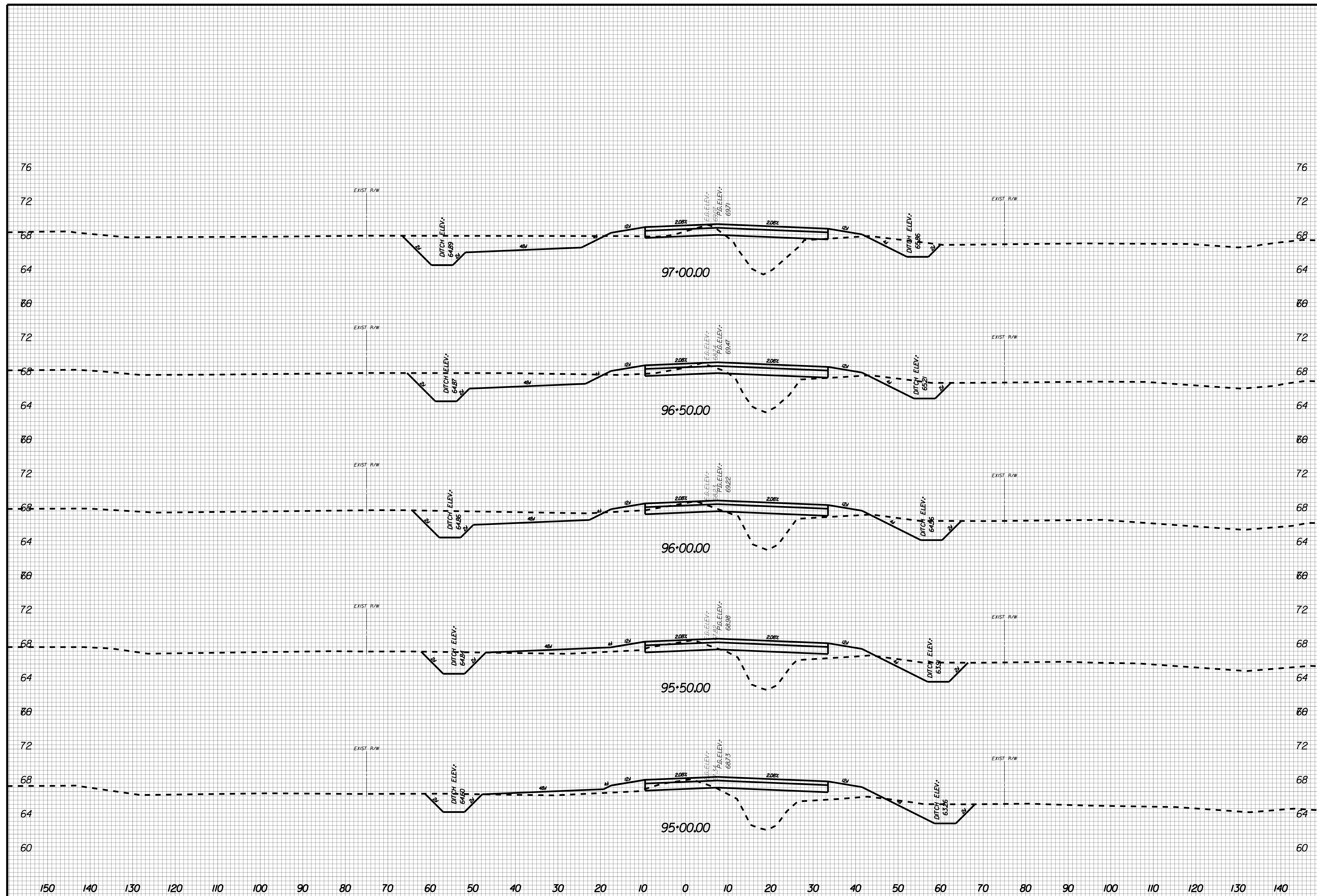
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X044



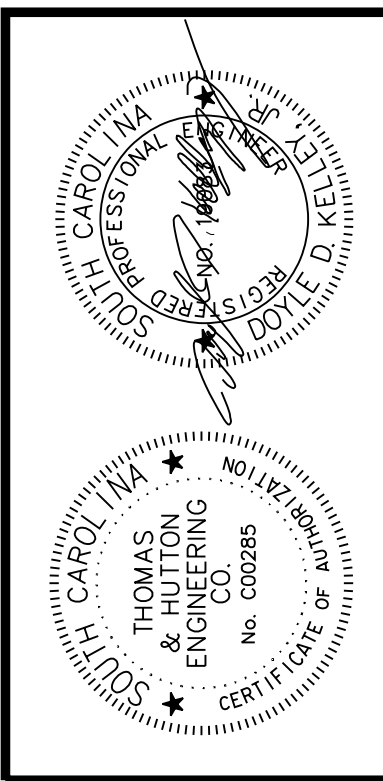
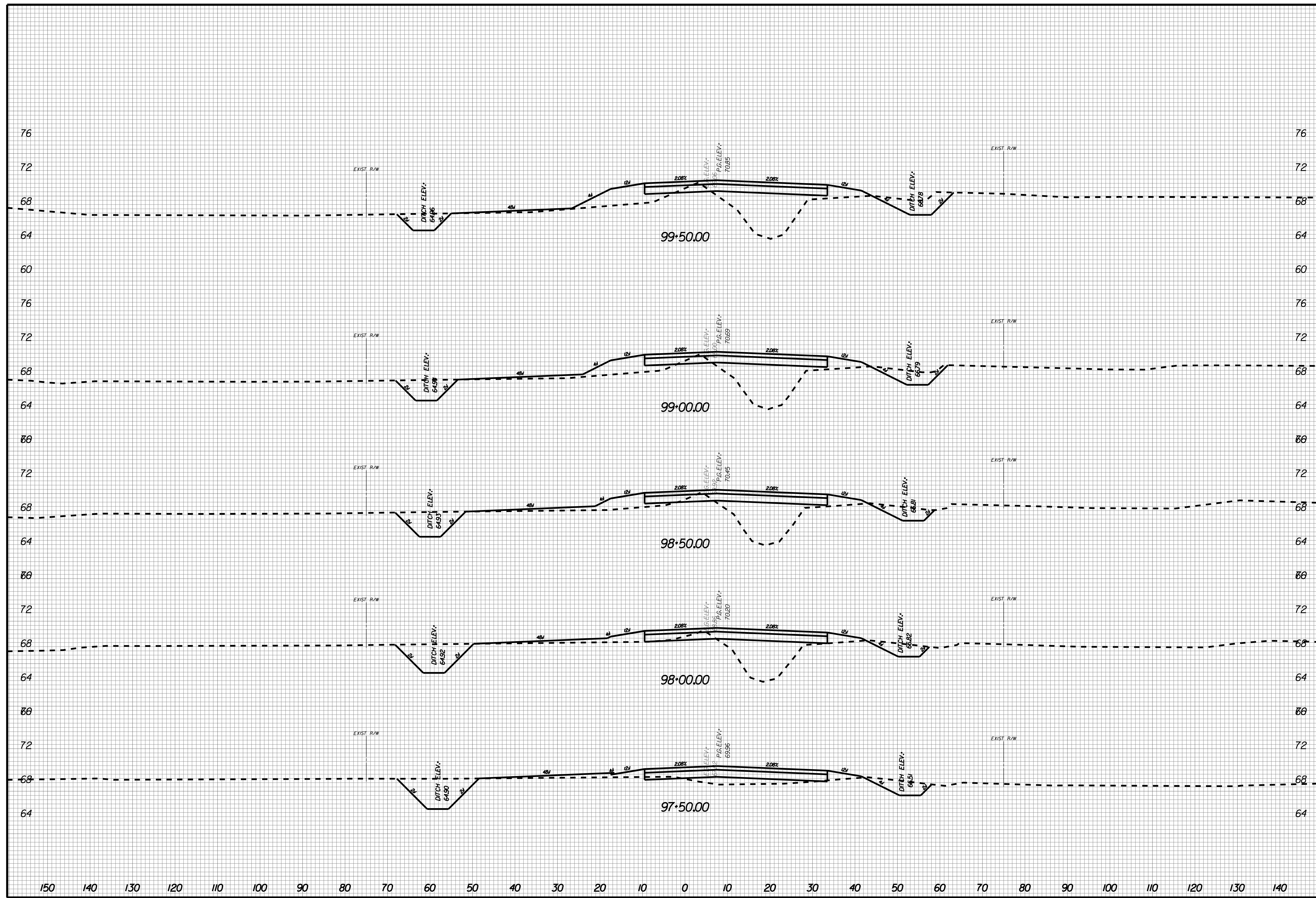
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X045



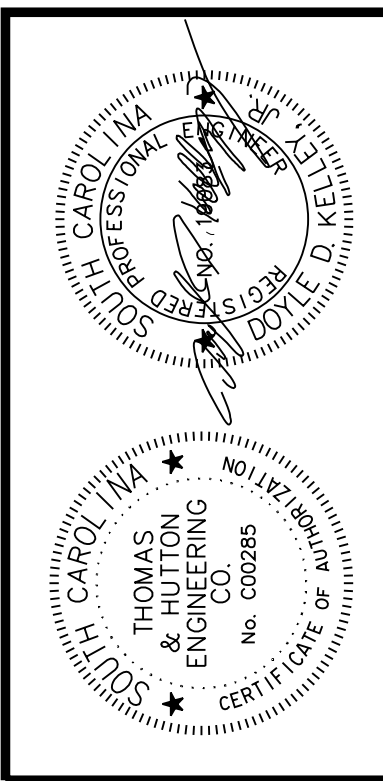
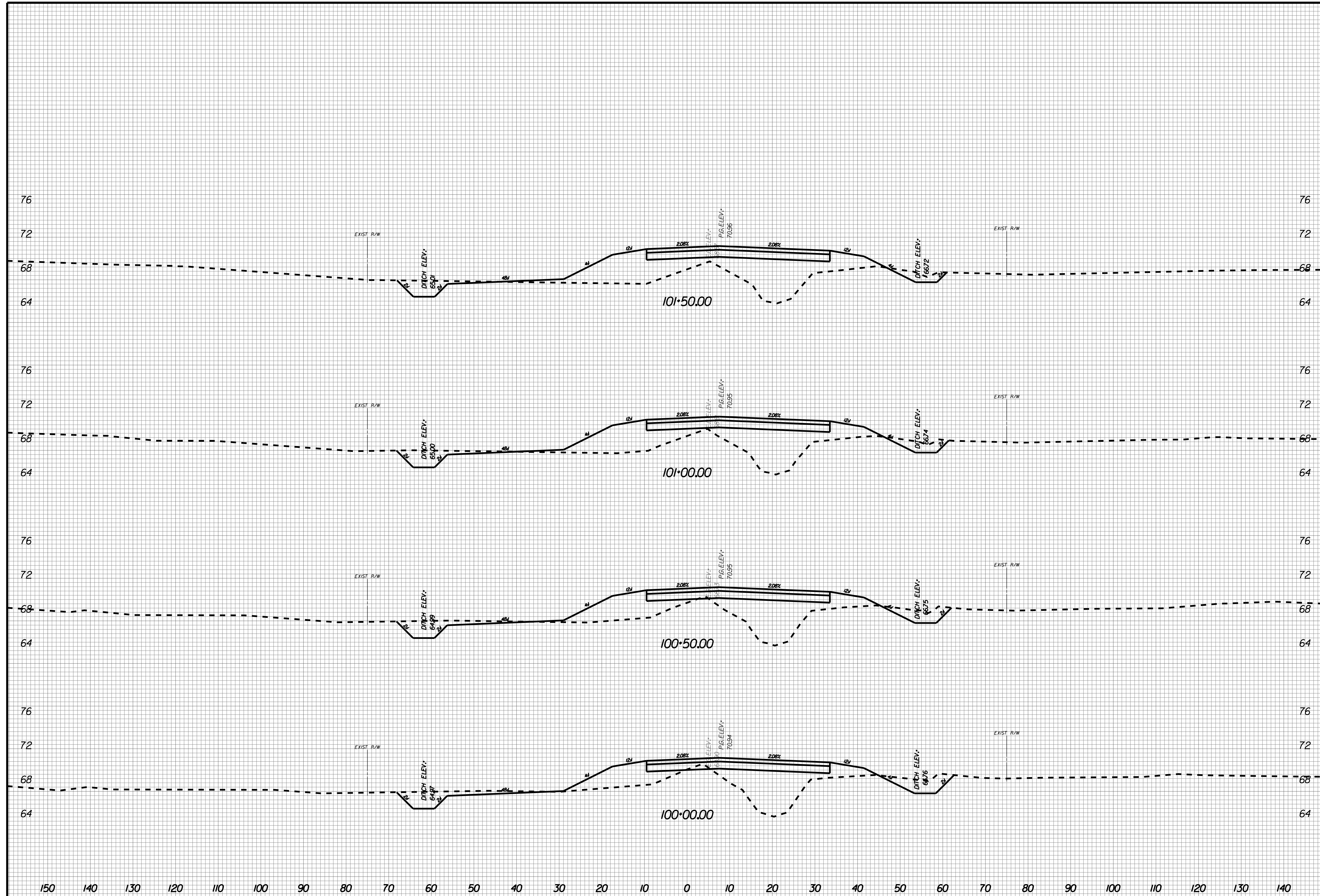
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X046



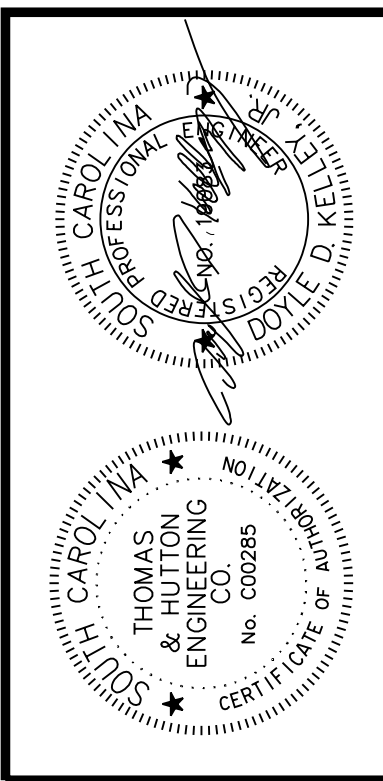
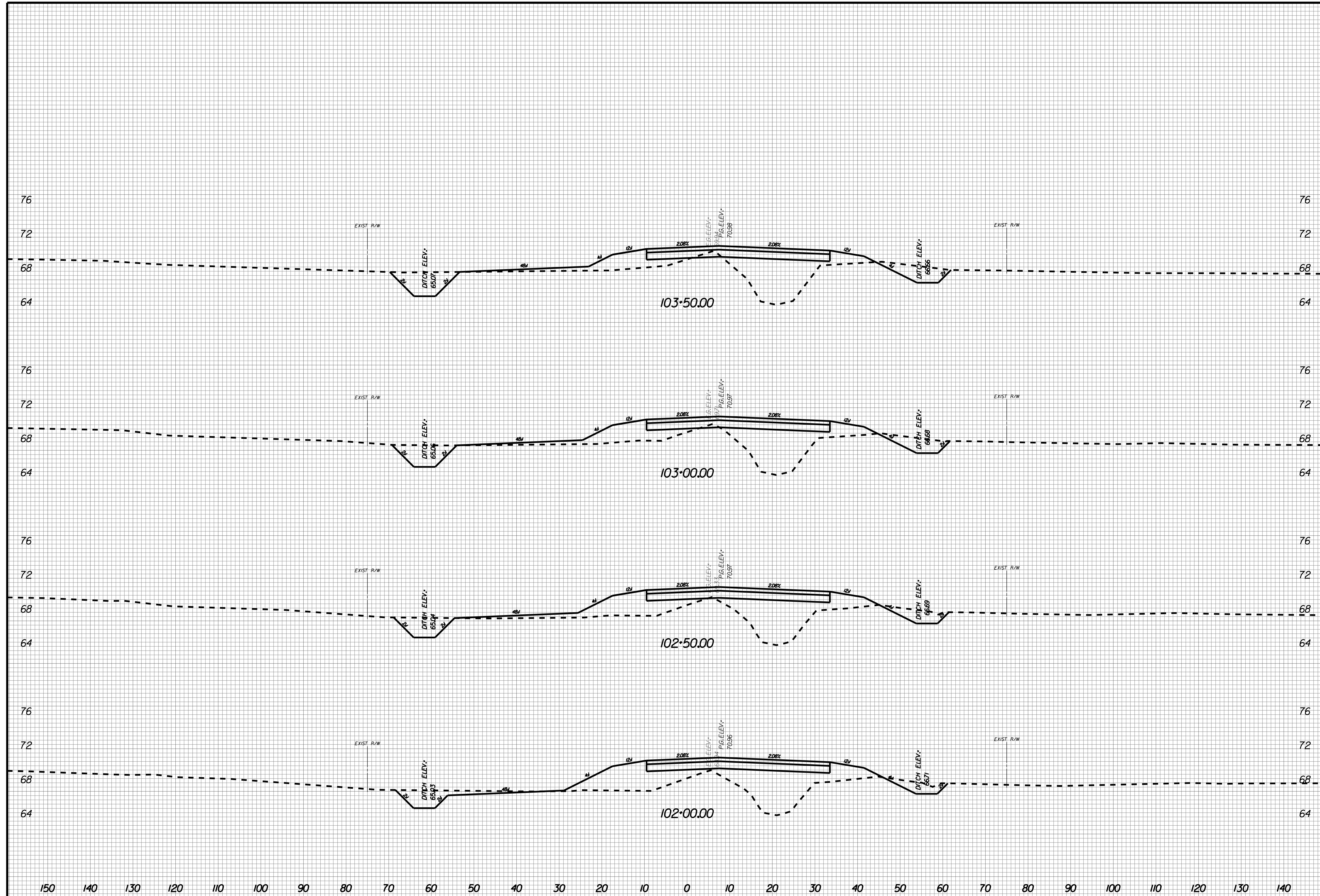
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X047



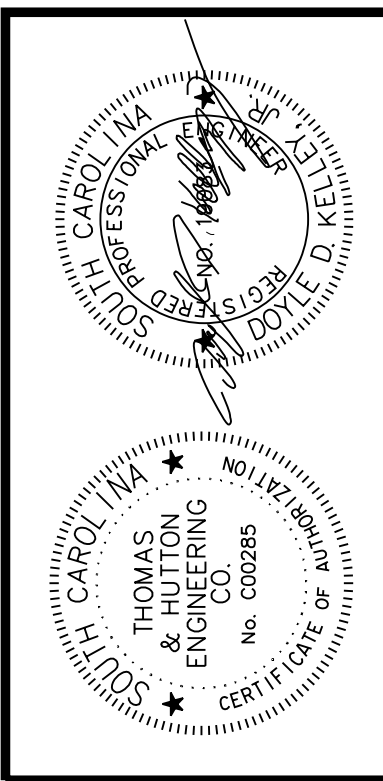
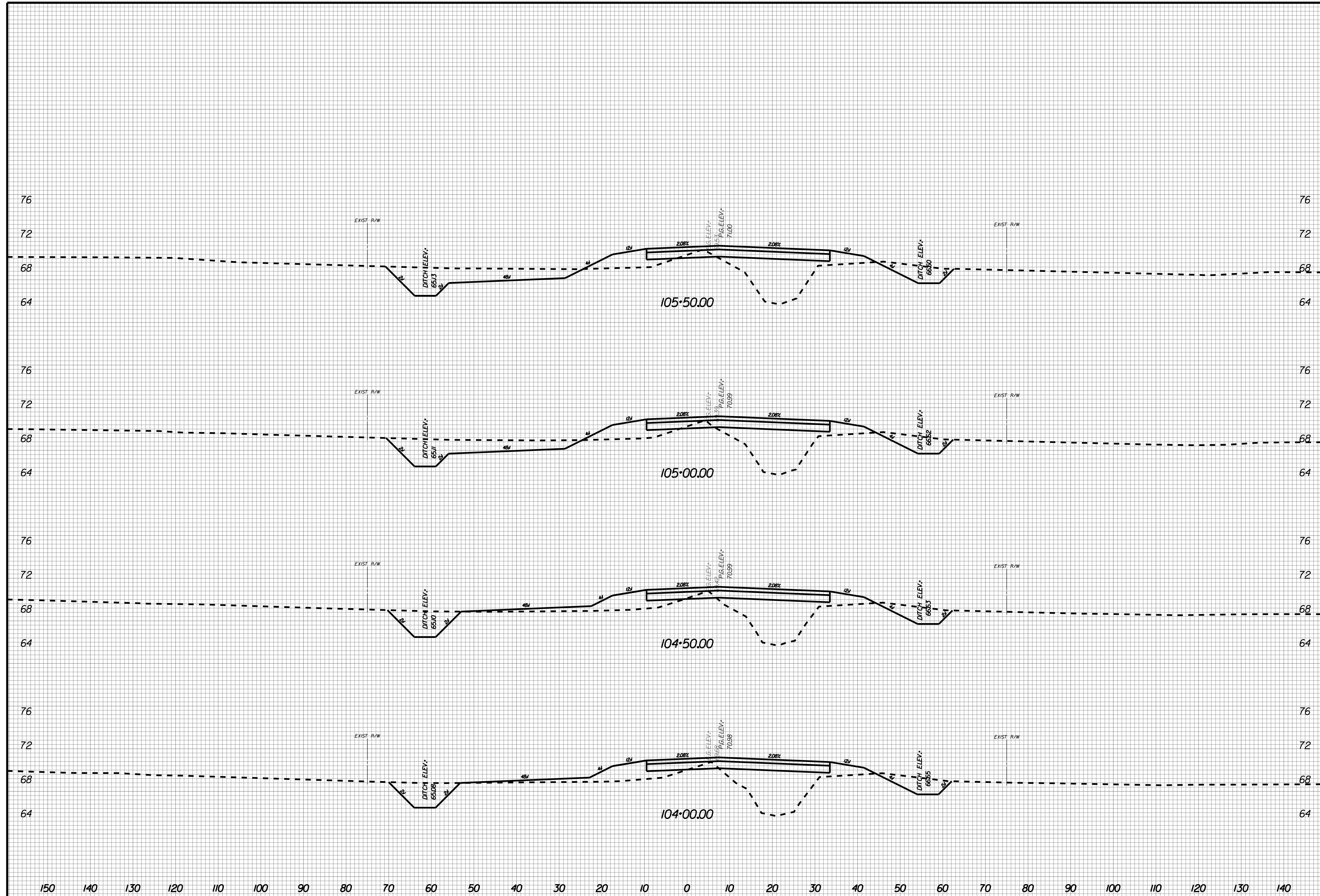
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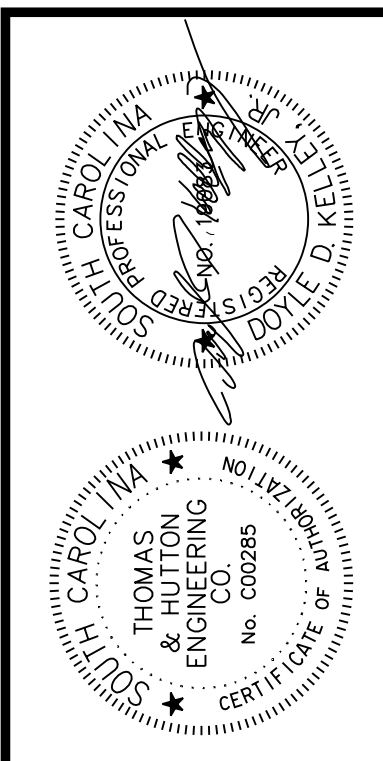
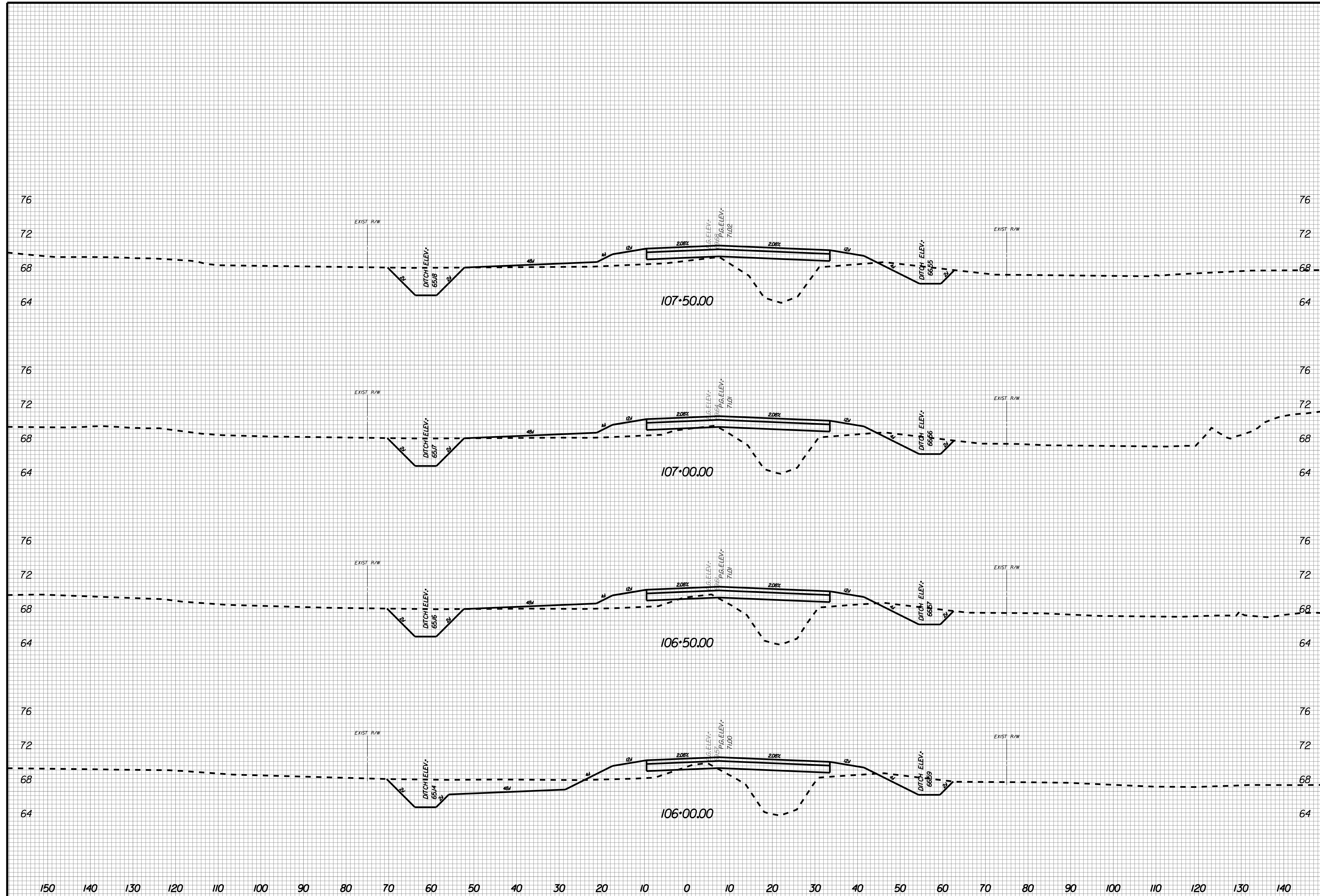
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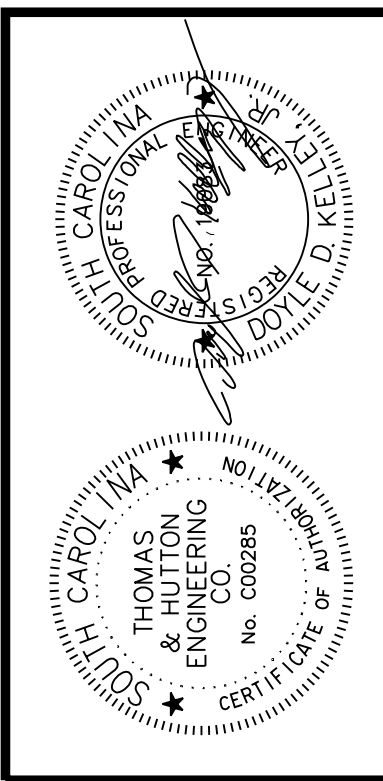
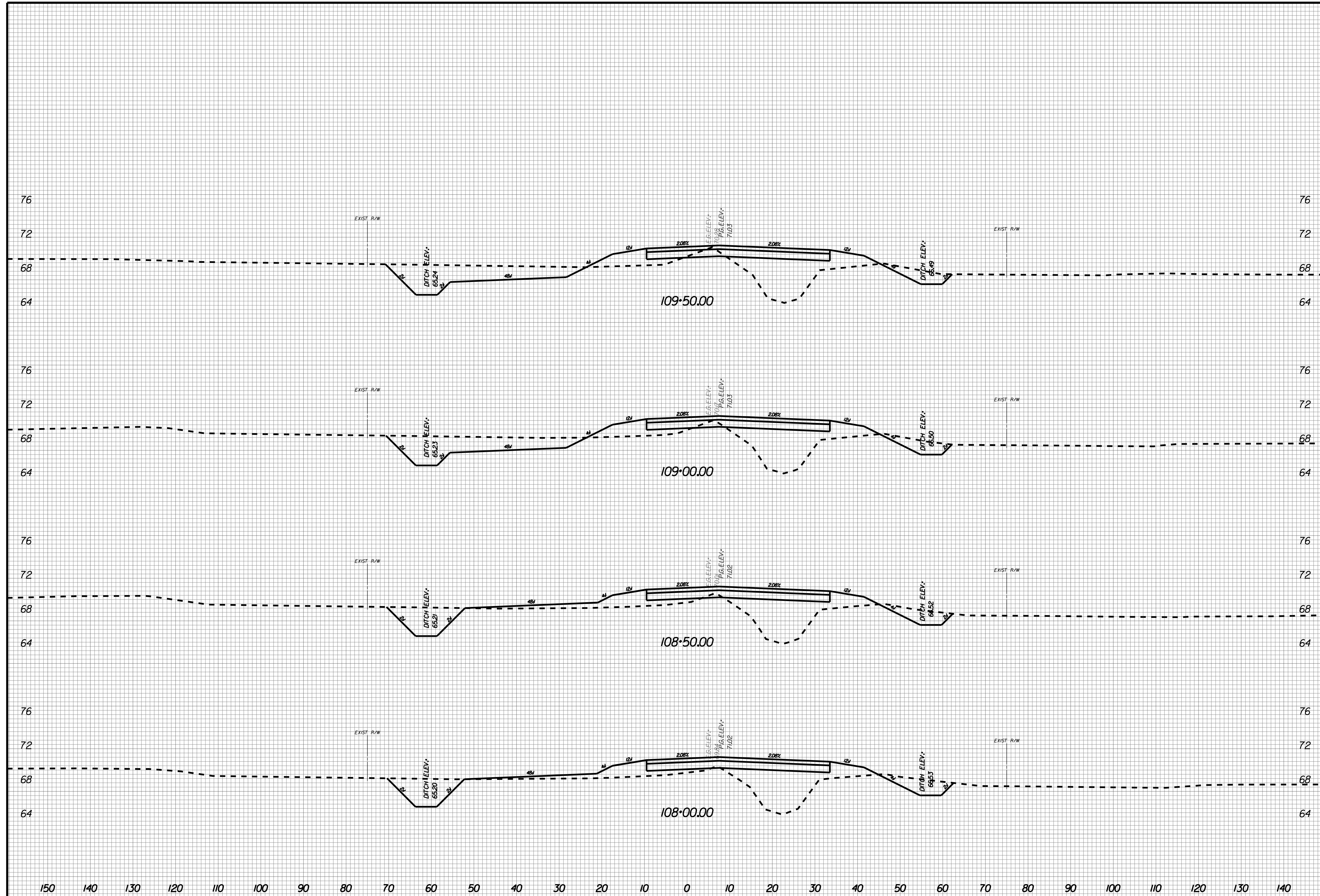
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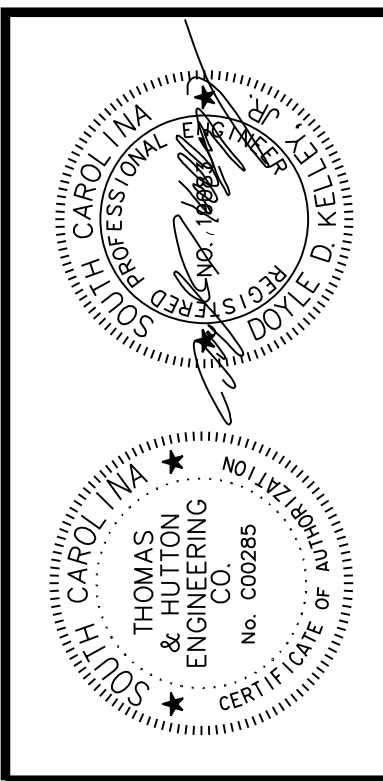
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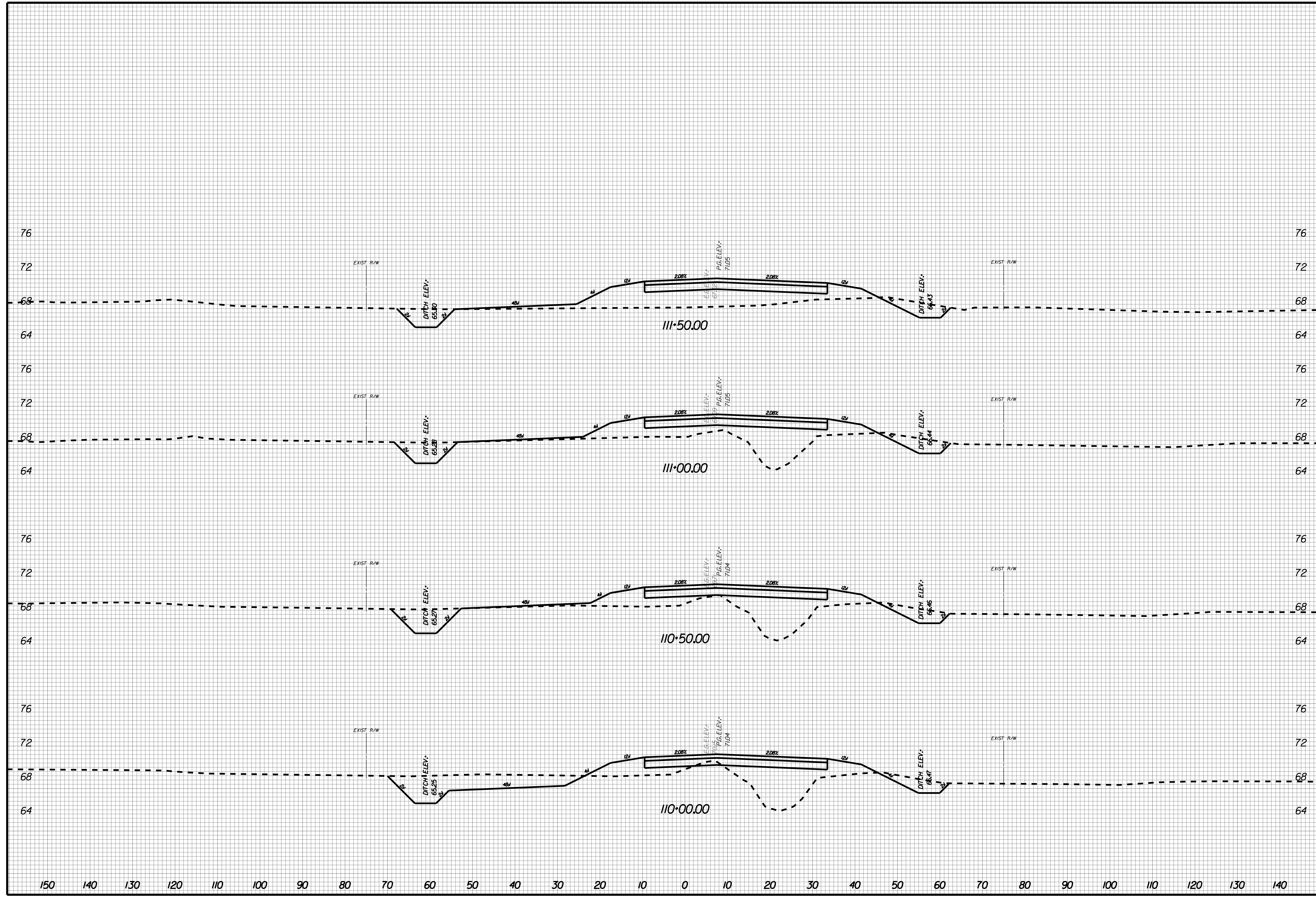
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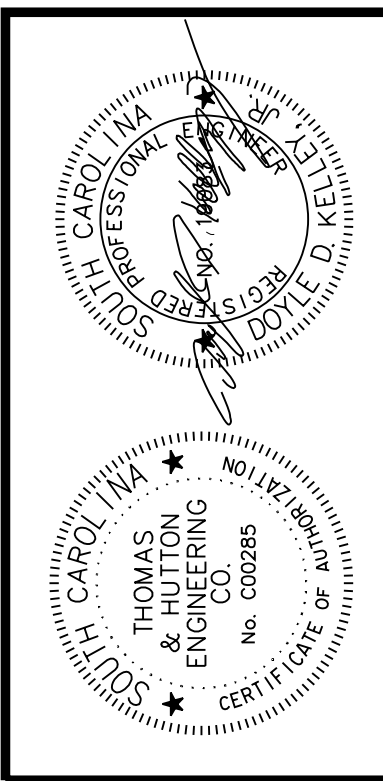
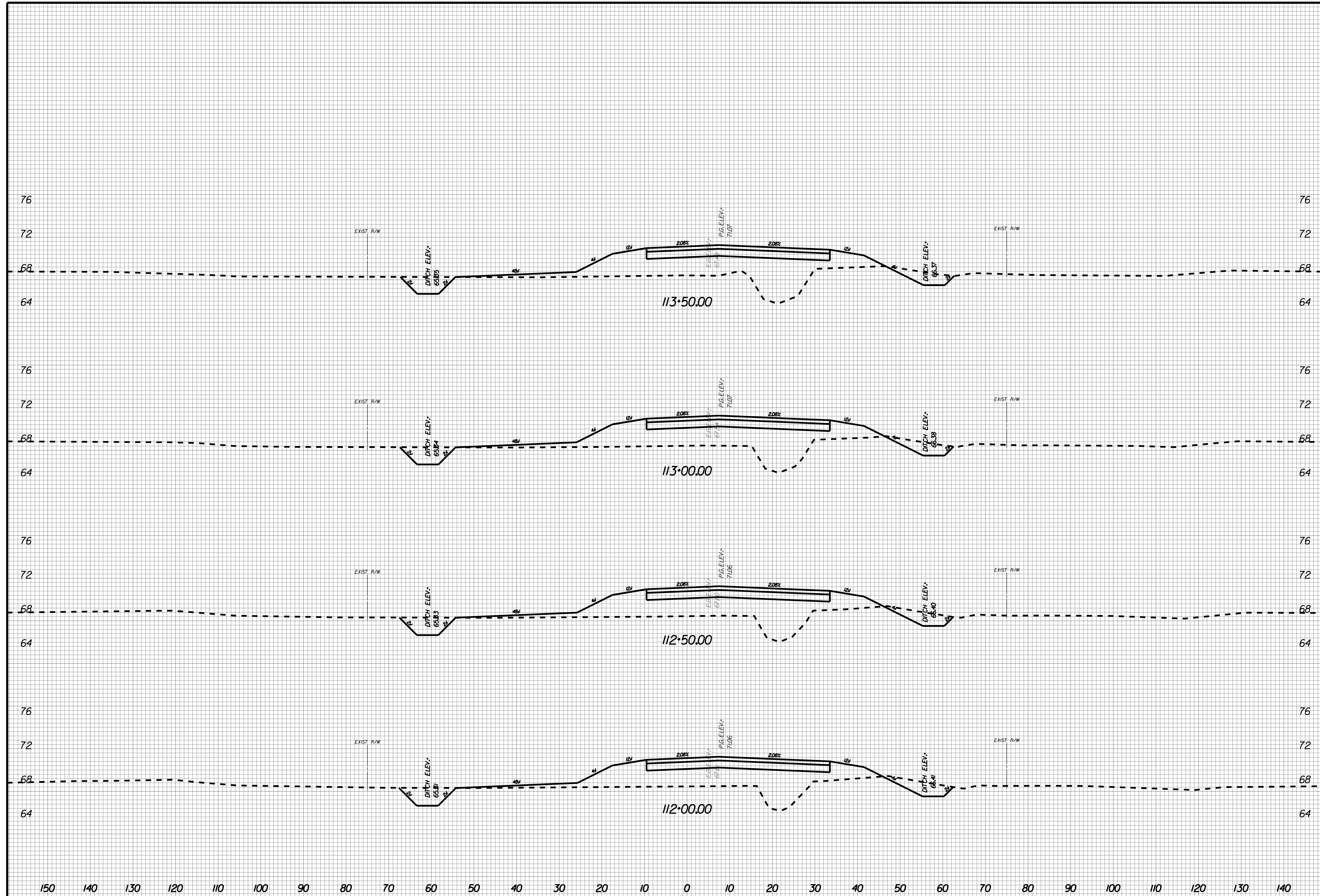
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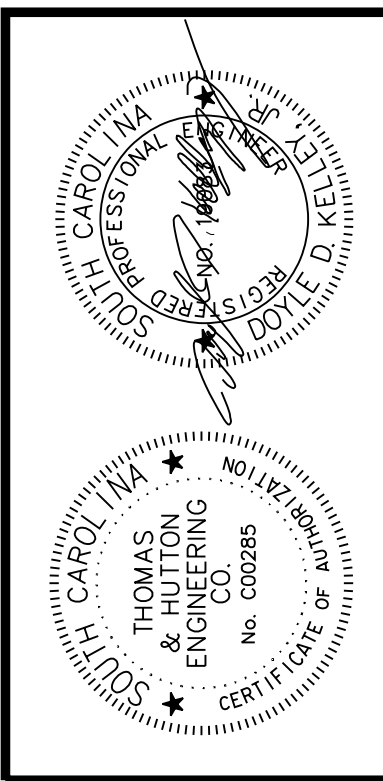
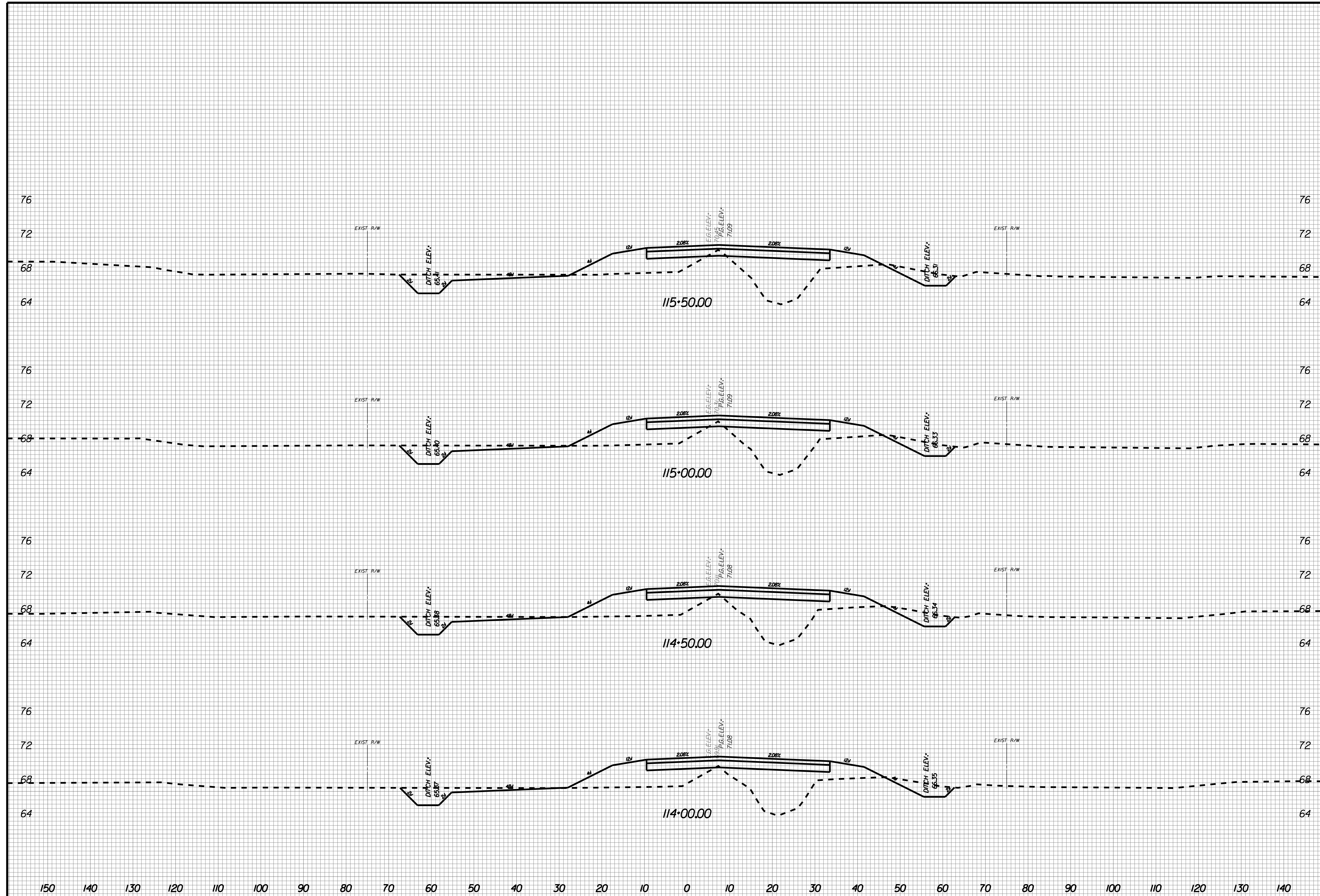
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X053



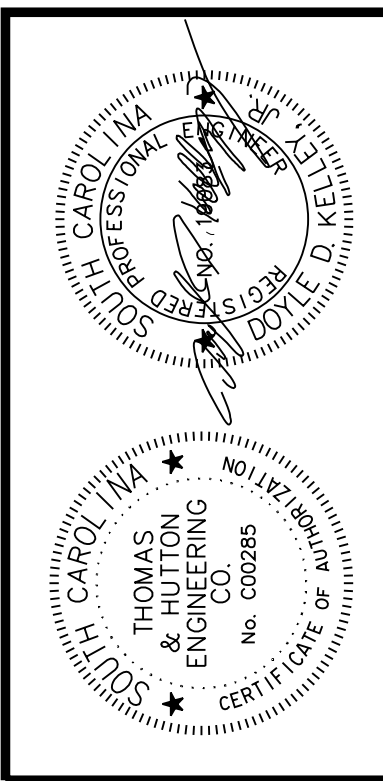
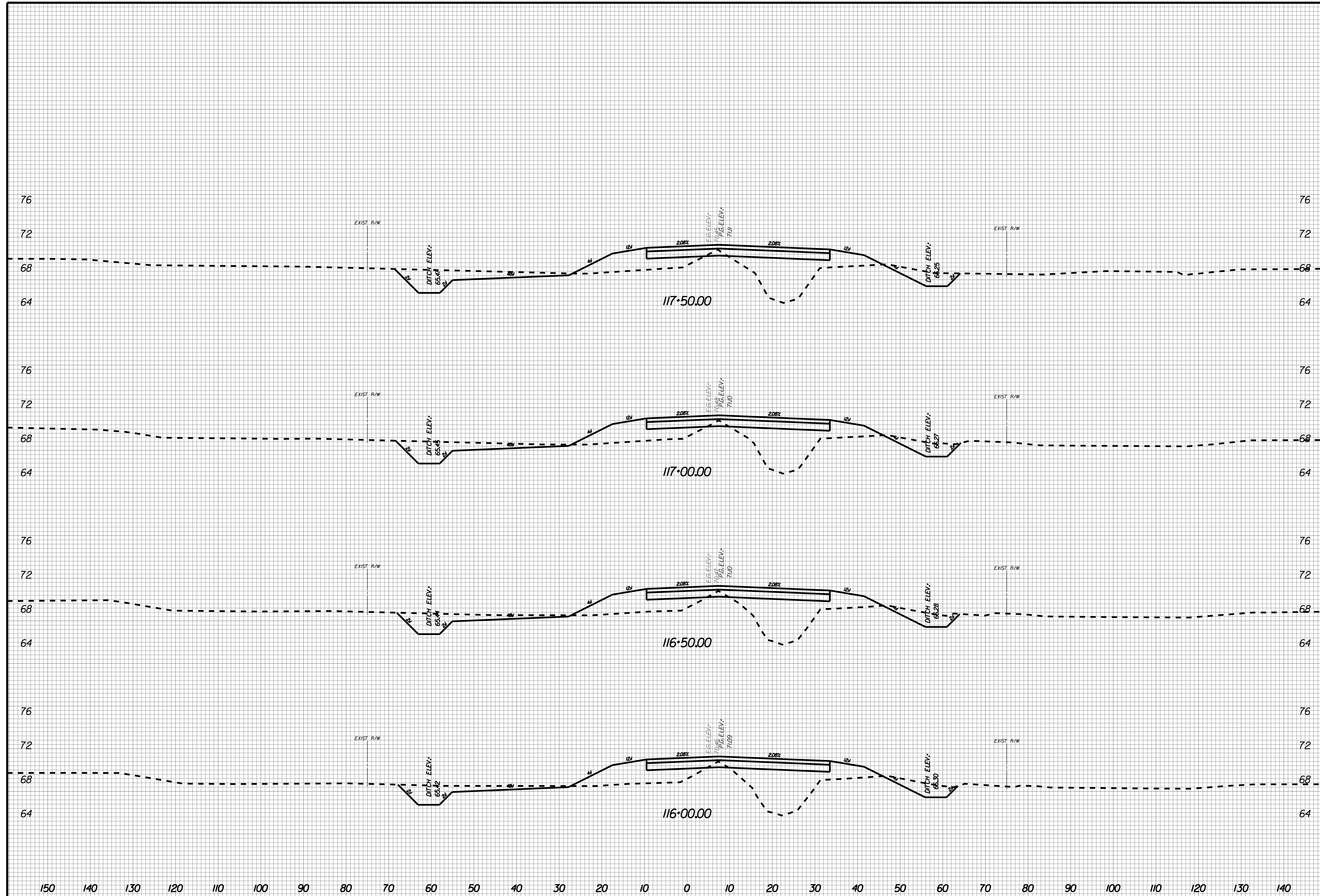
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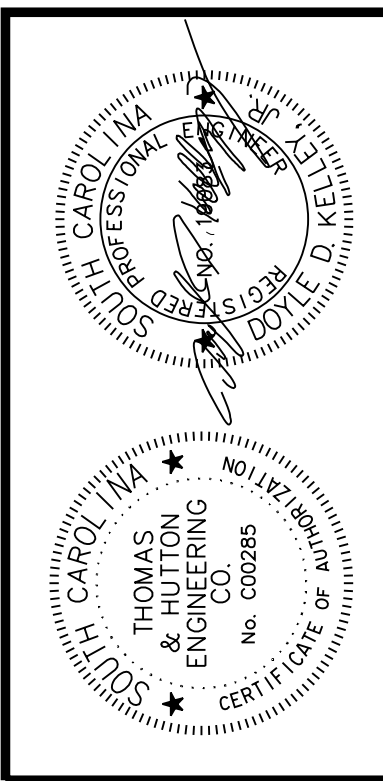
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X055



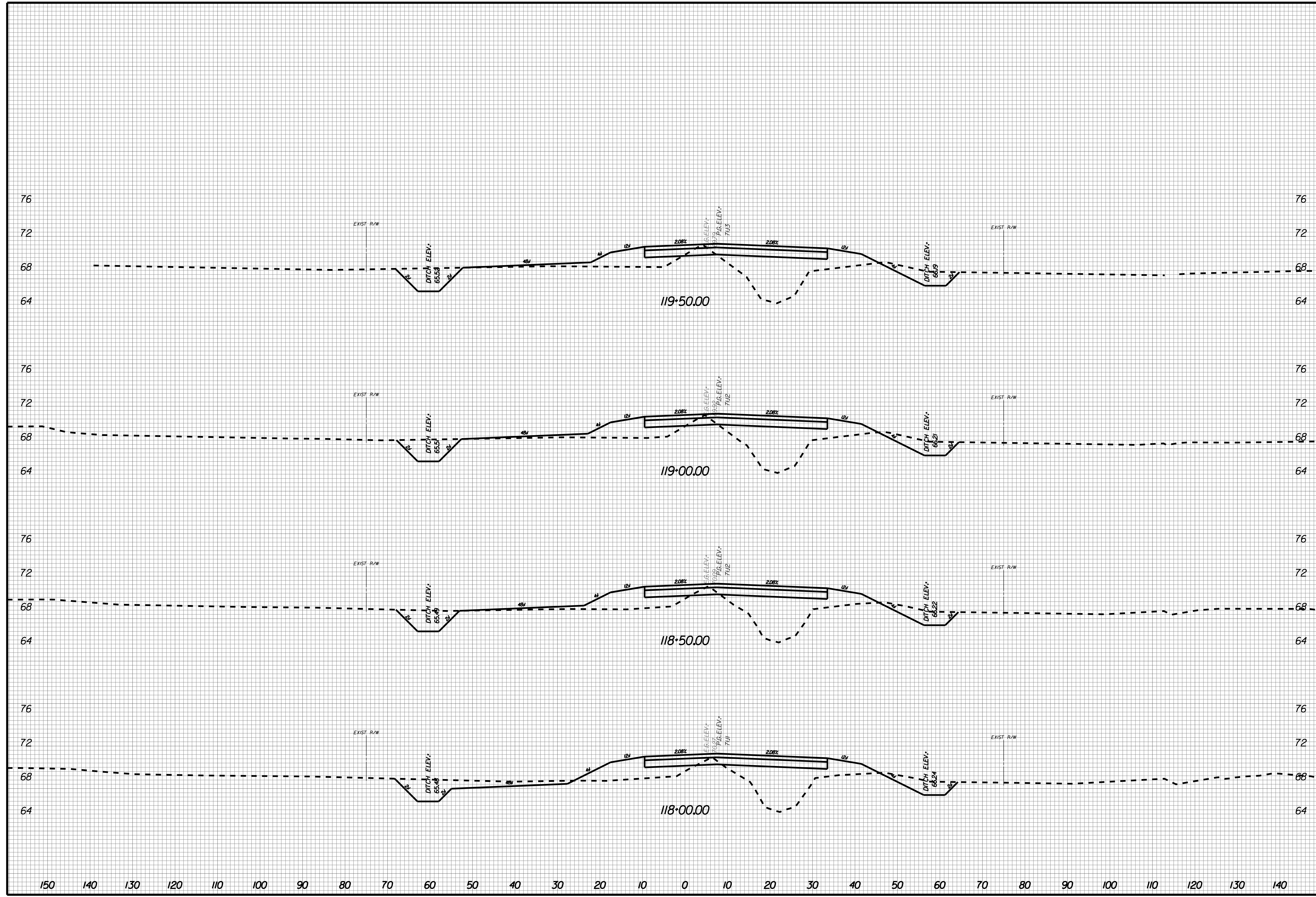
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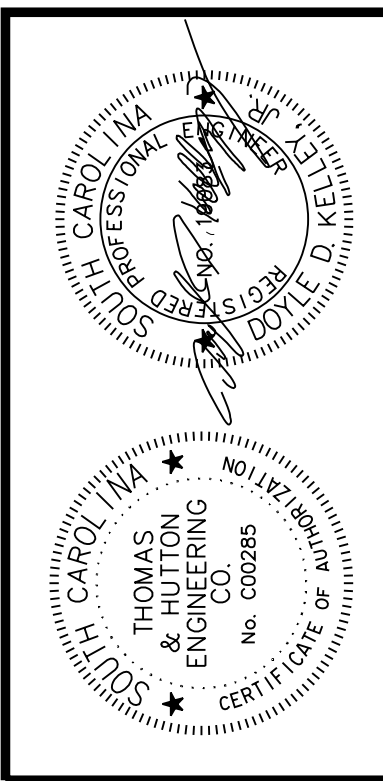
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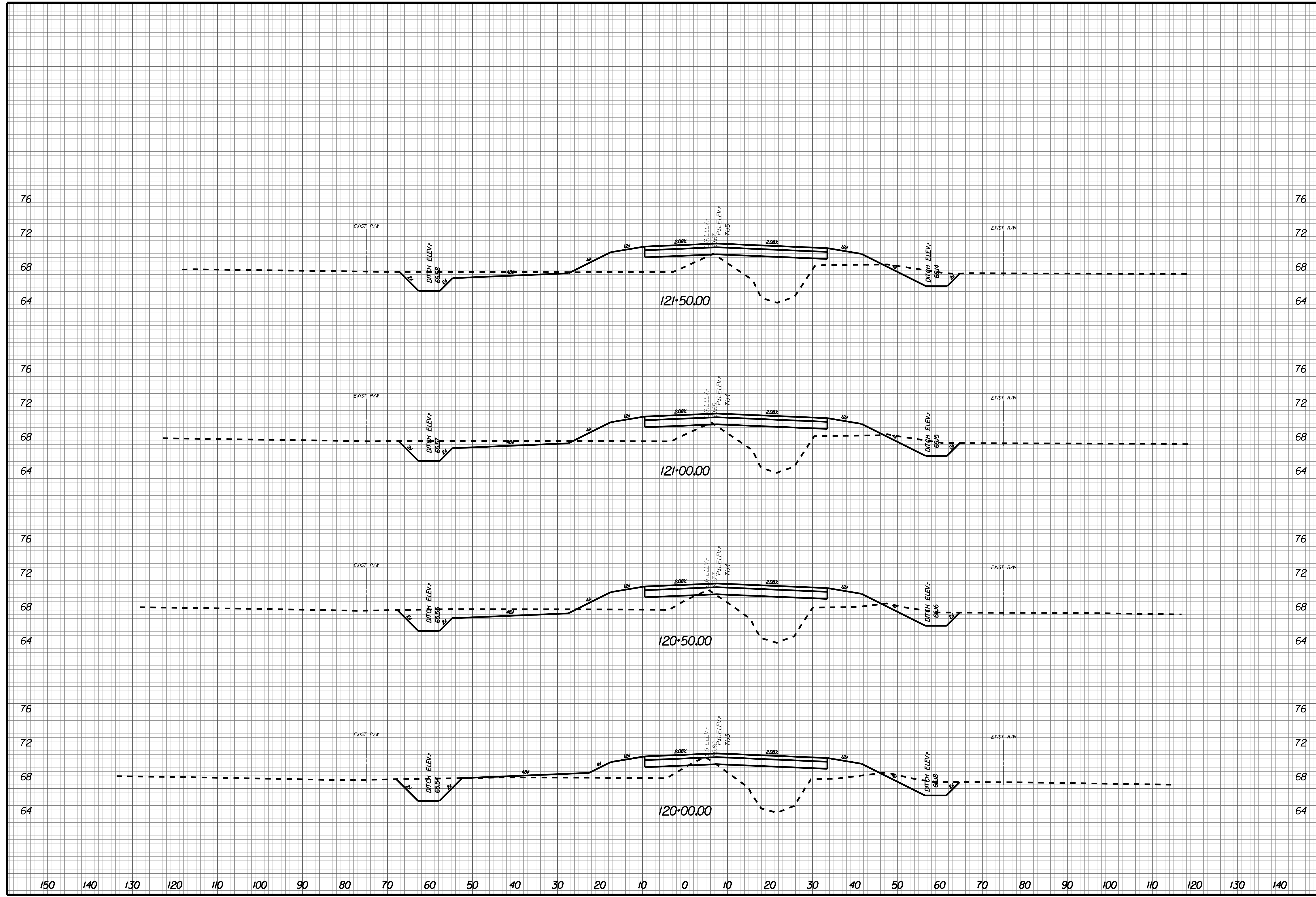
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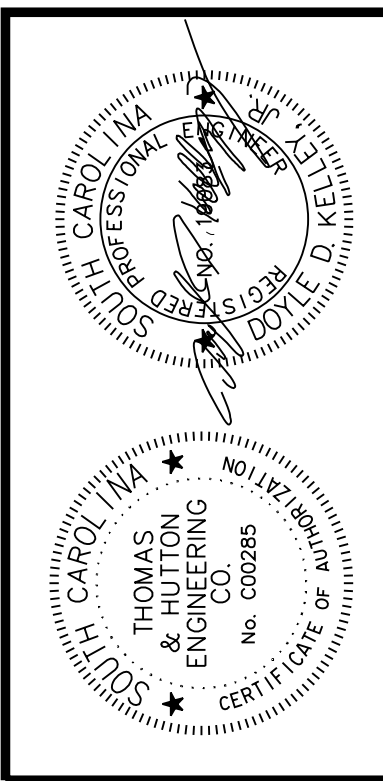
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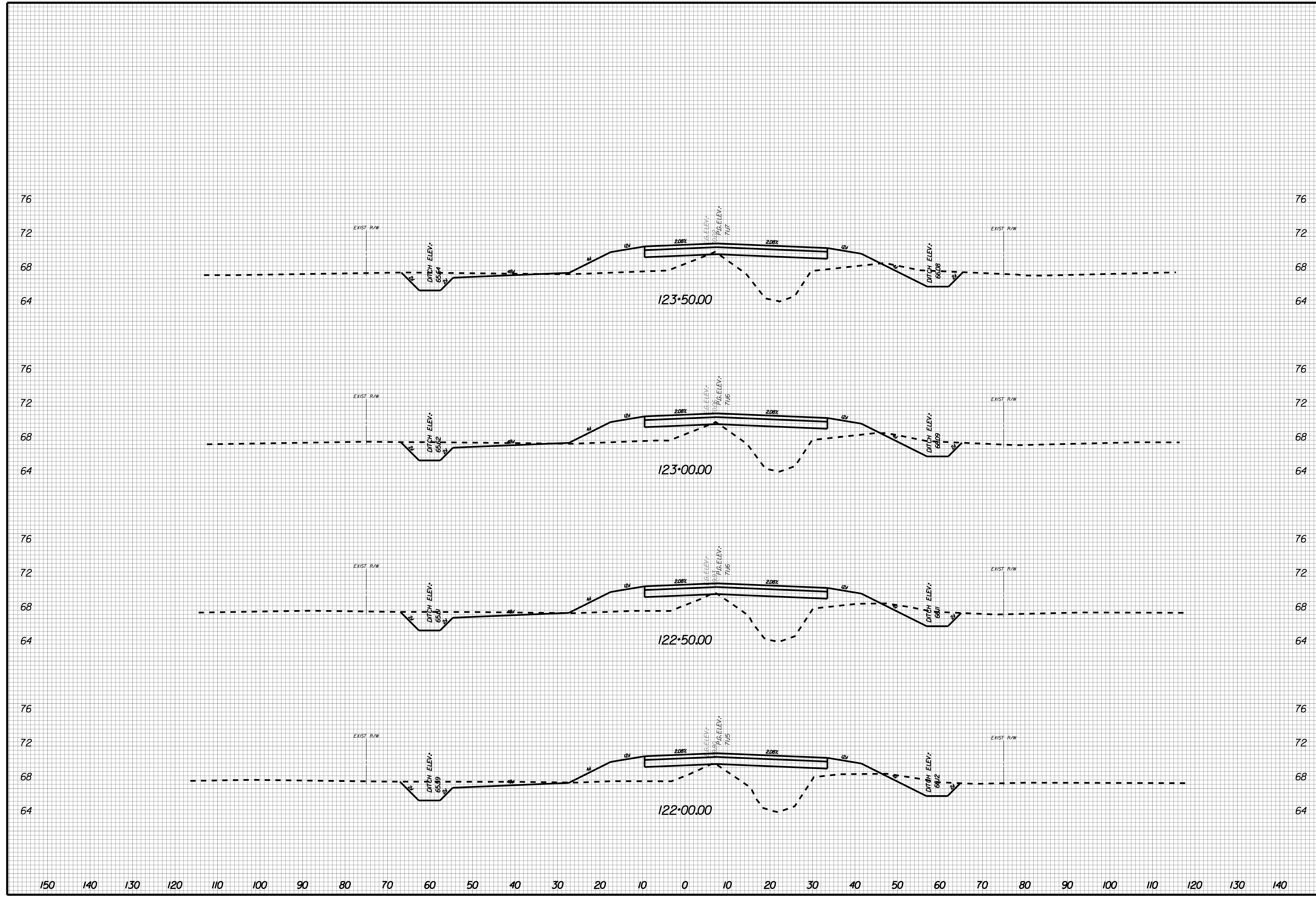
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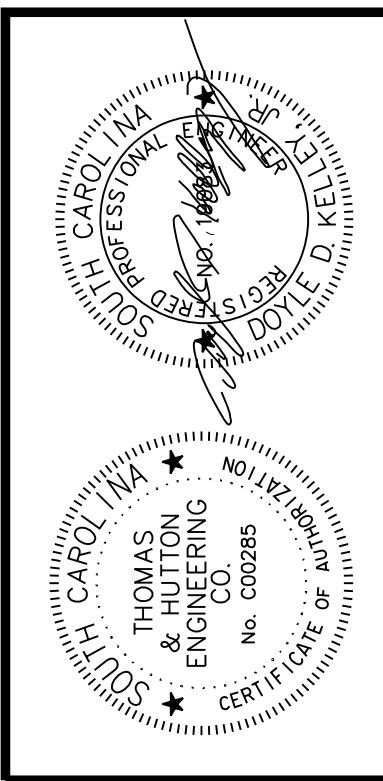
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 CROSS SECTIONS

JOB NO: J-25644.1005
 DATE: _____
 DRAWN: _____
 DESIGNED: _____
 REVIEWED: _____
 APPROVED: _____
 SCALE: AS NOTED

X058





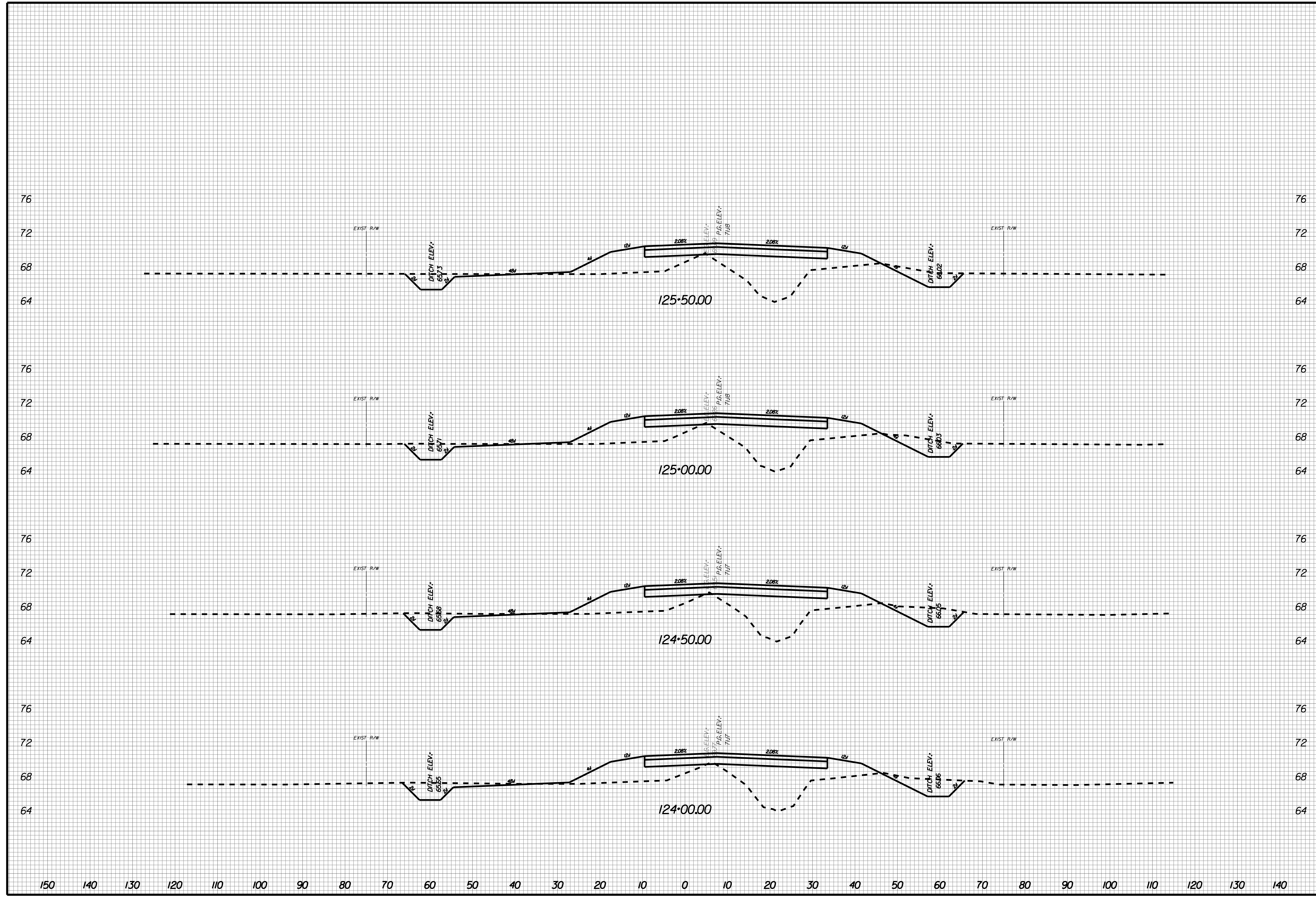
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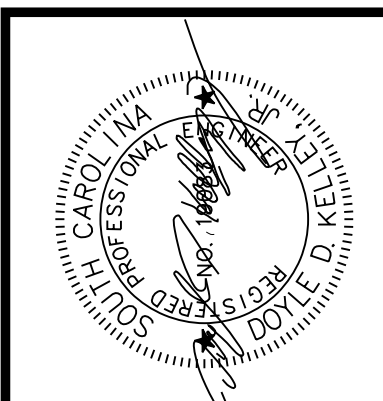
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X059





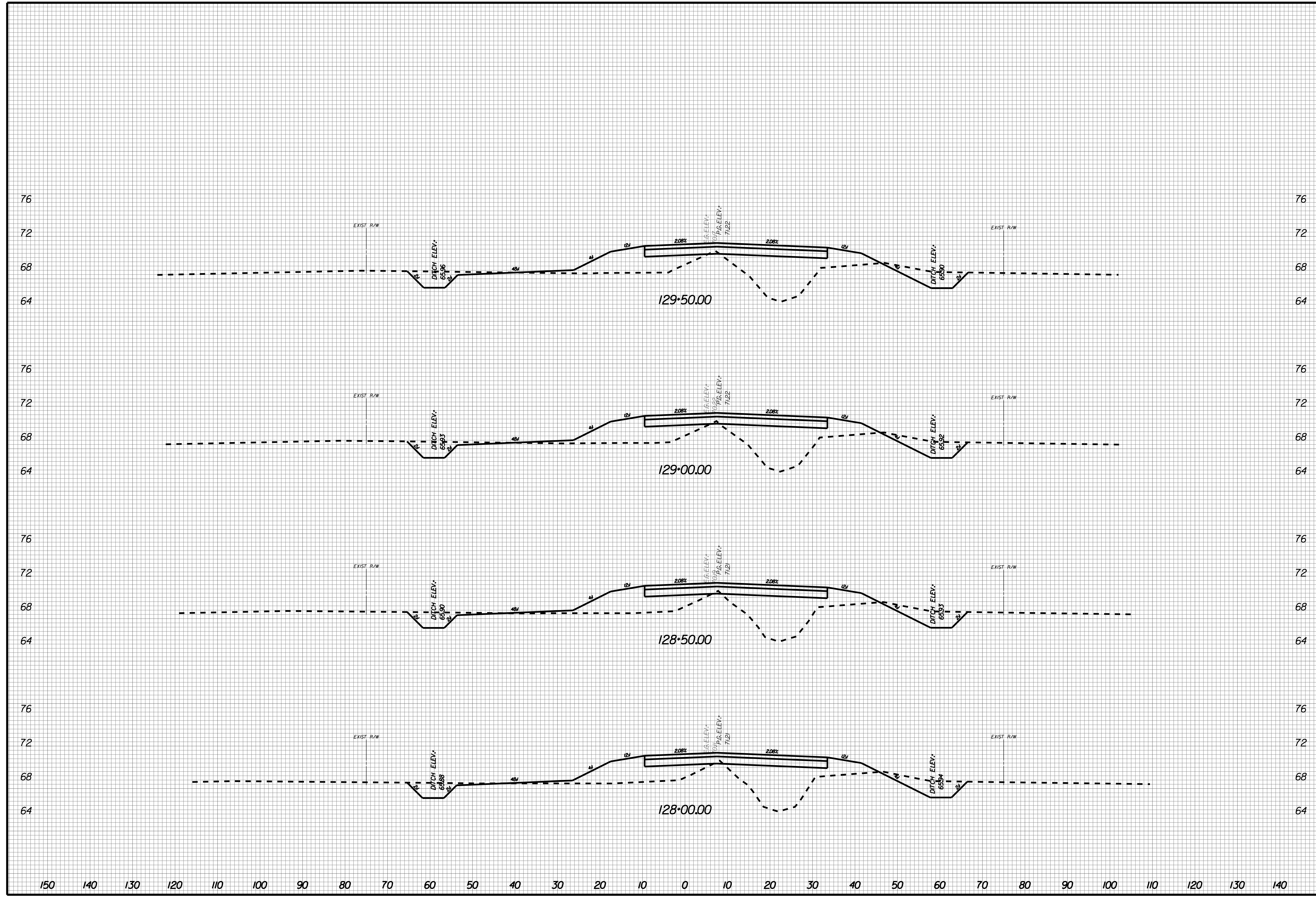
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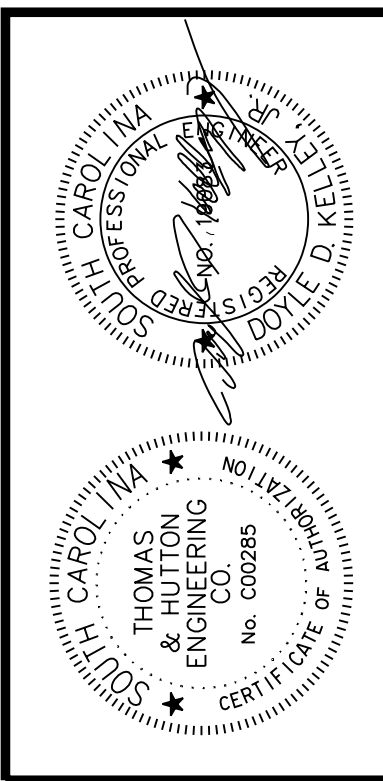
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X061





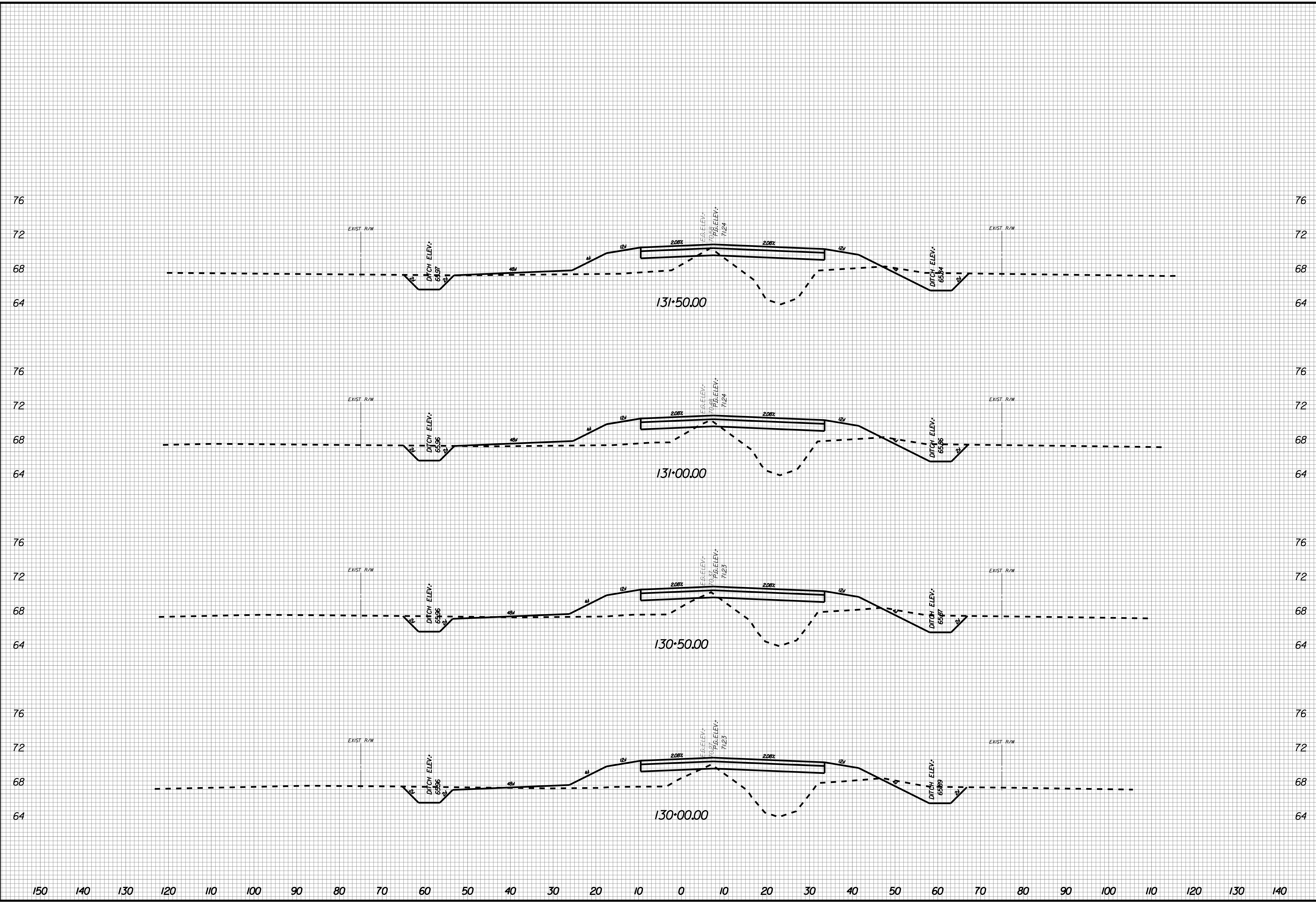
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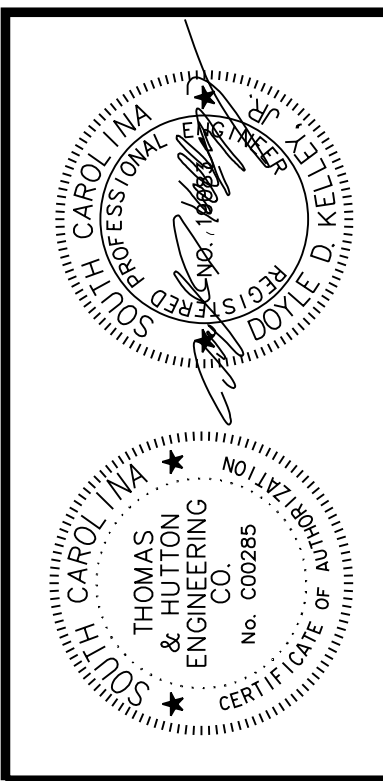
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X062





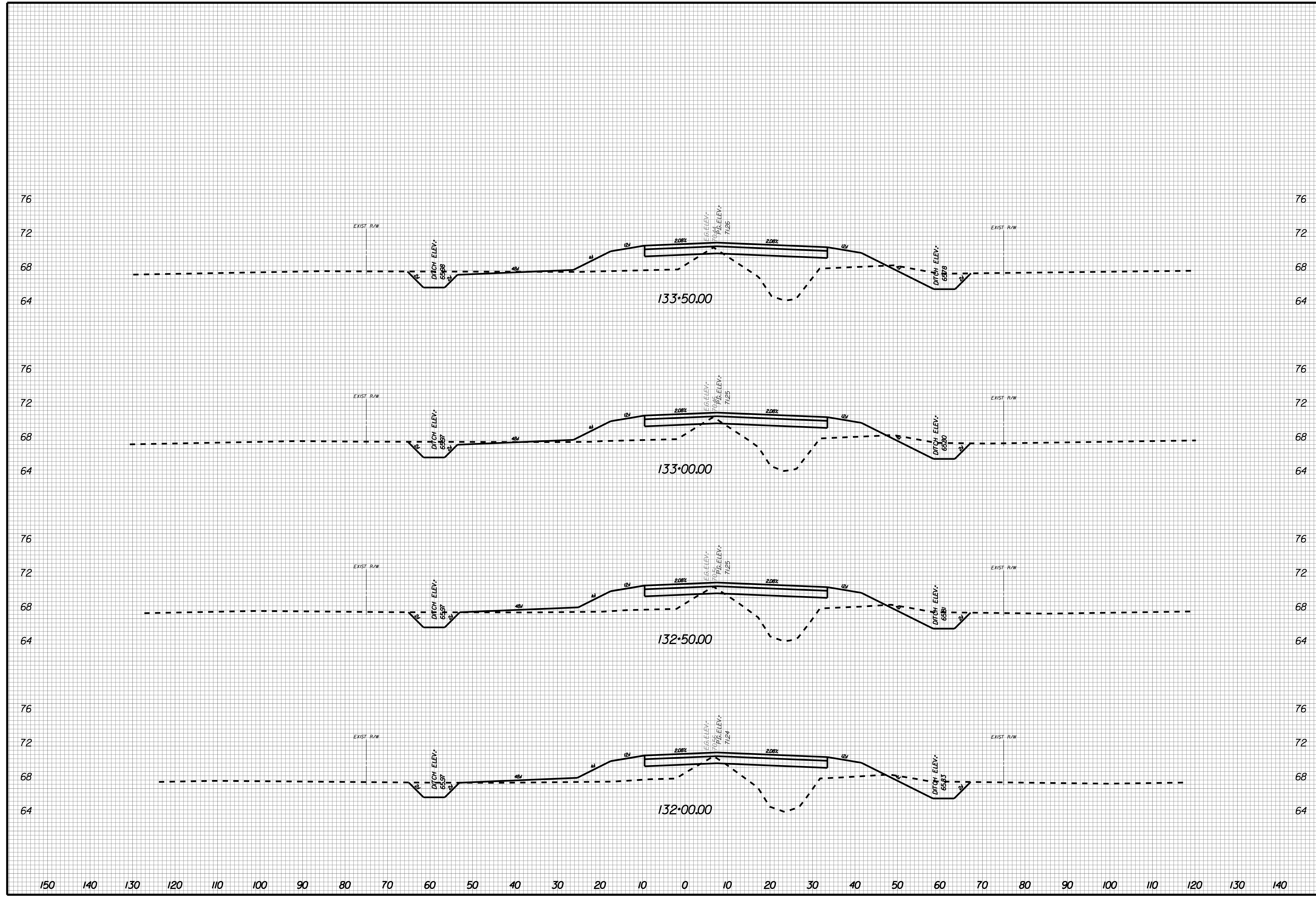
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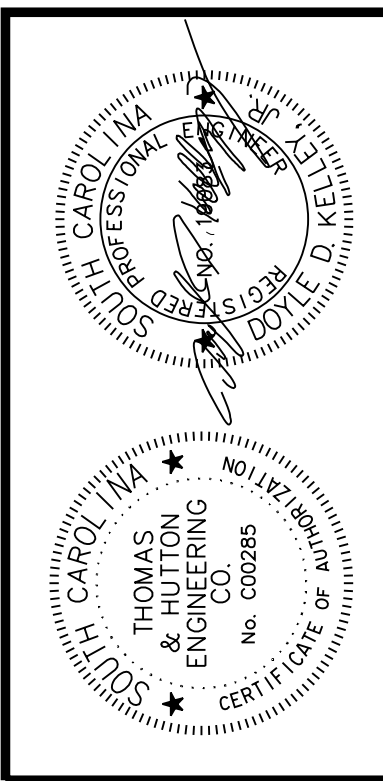
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X063





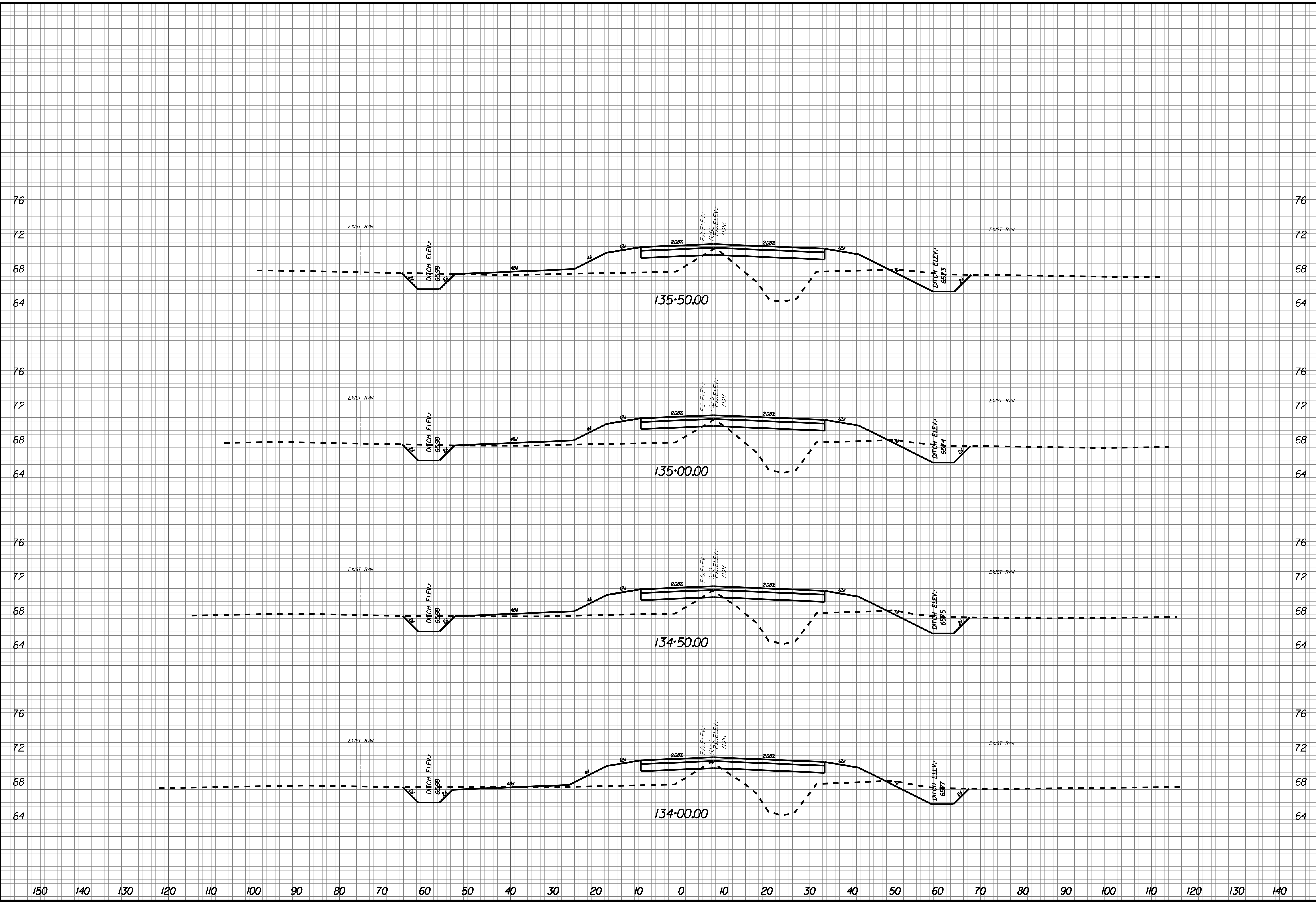
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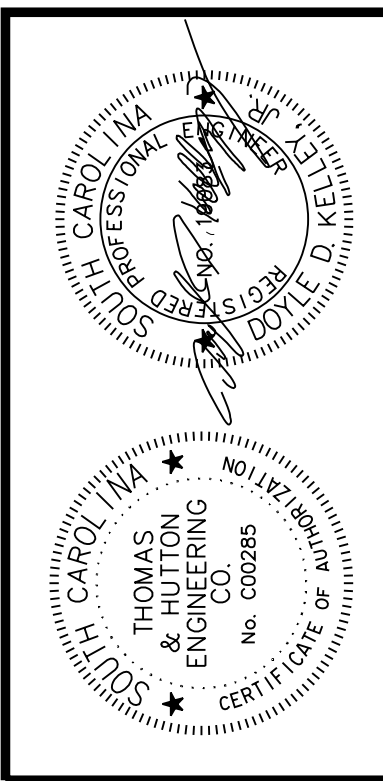
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X064





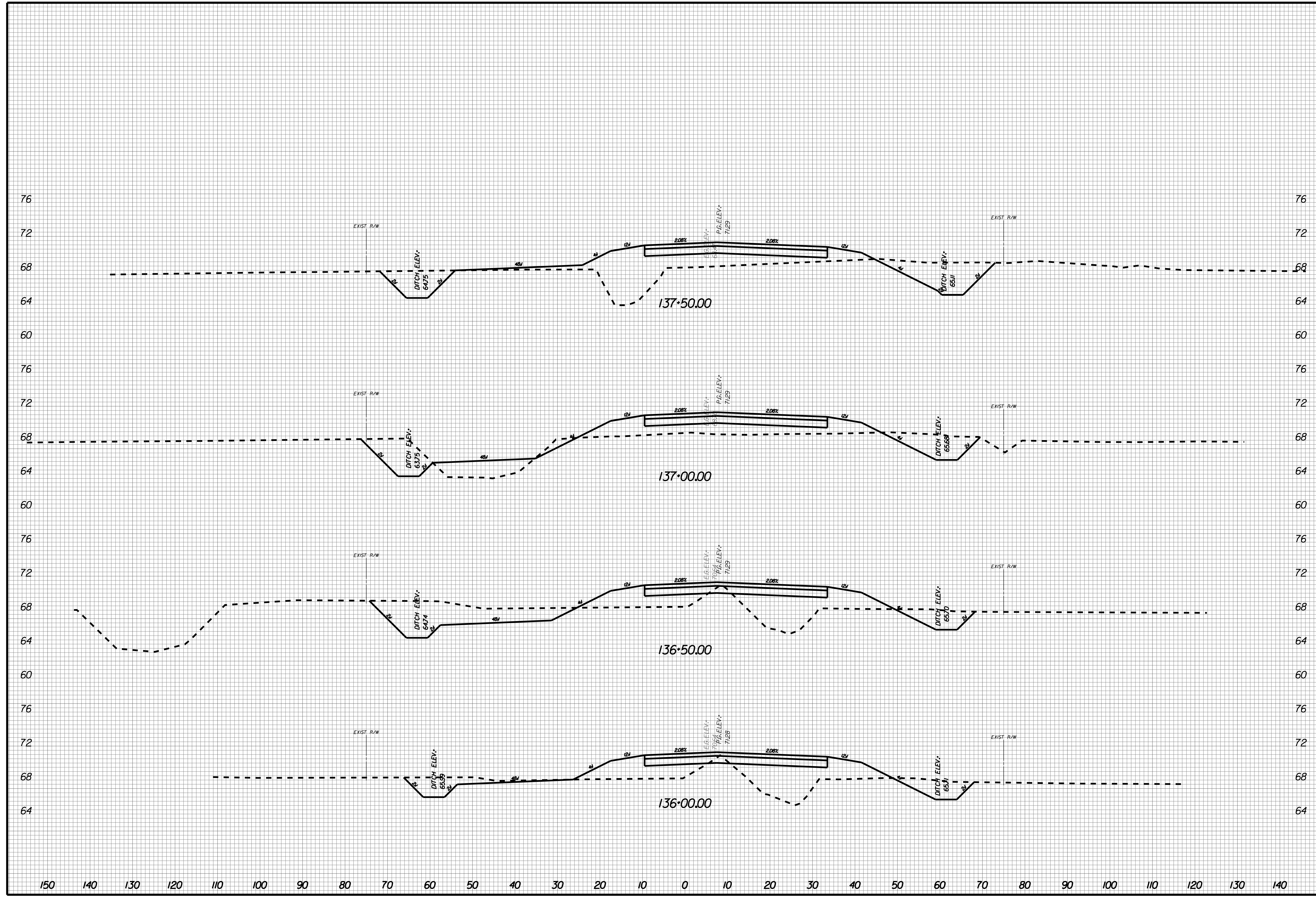
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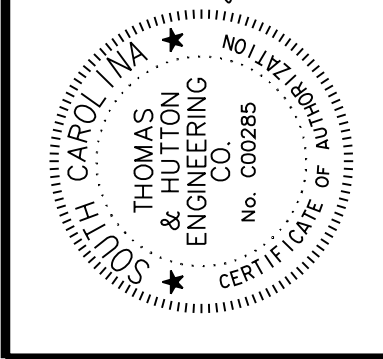
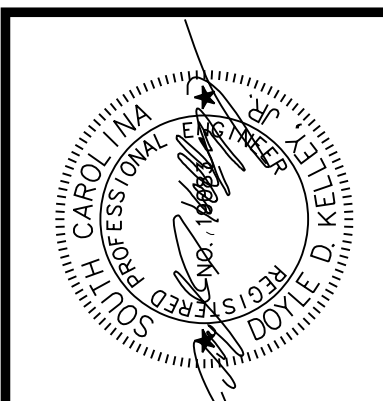
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X065





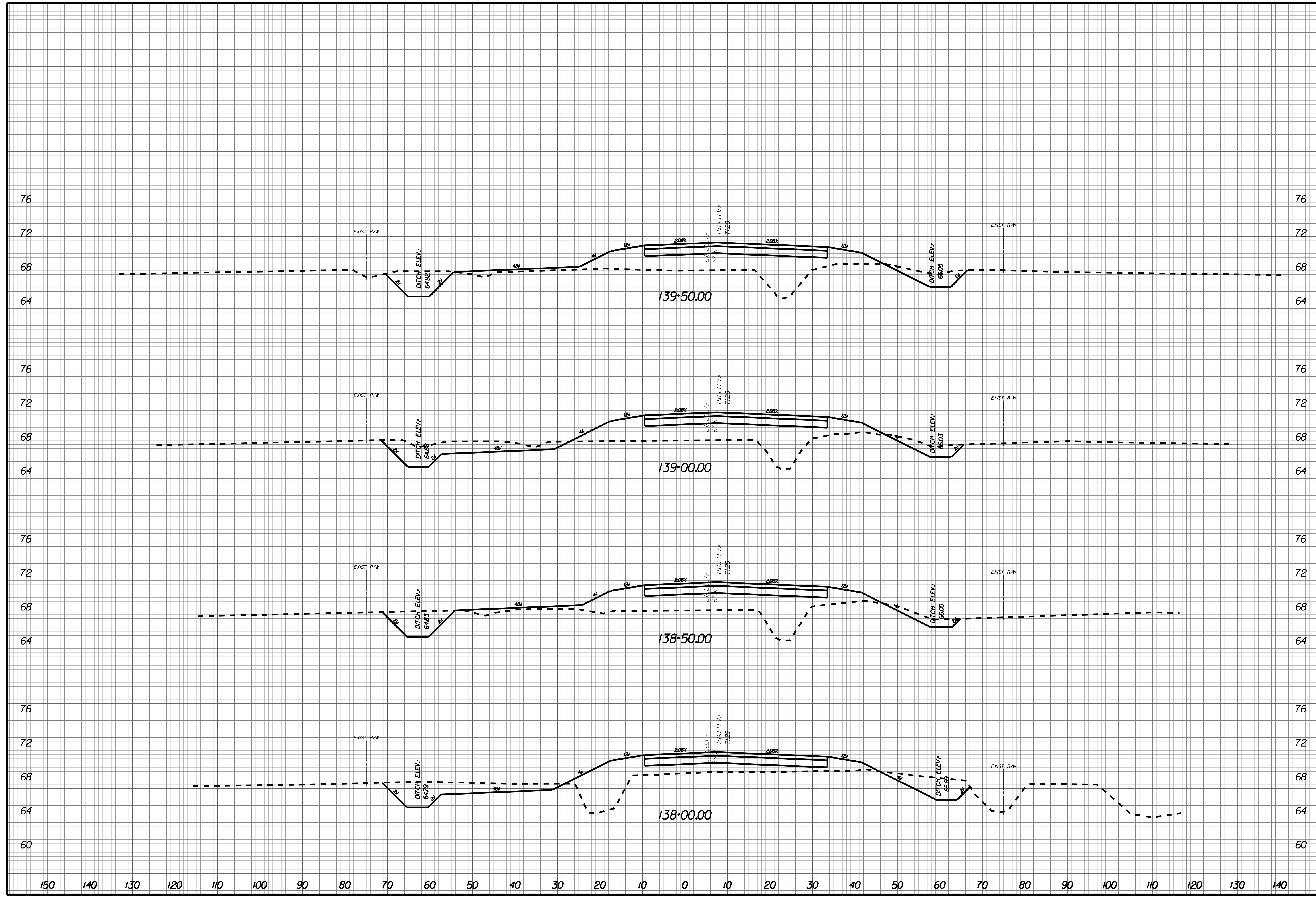
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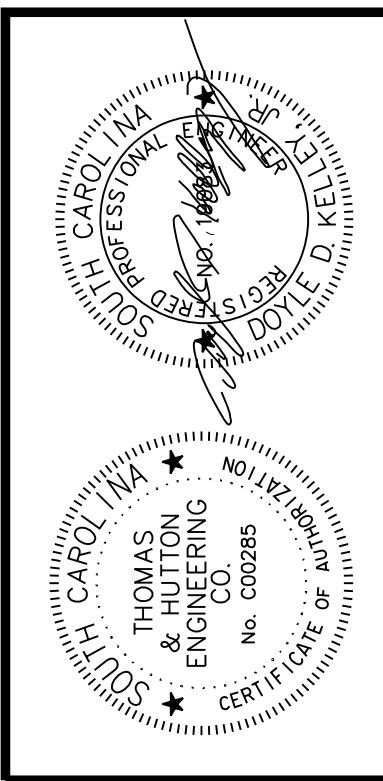
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X066





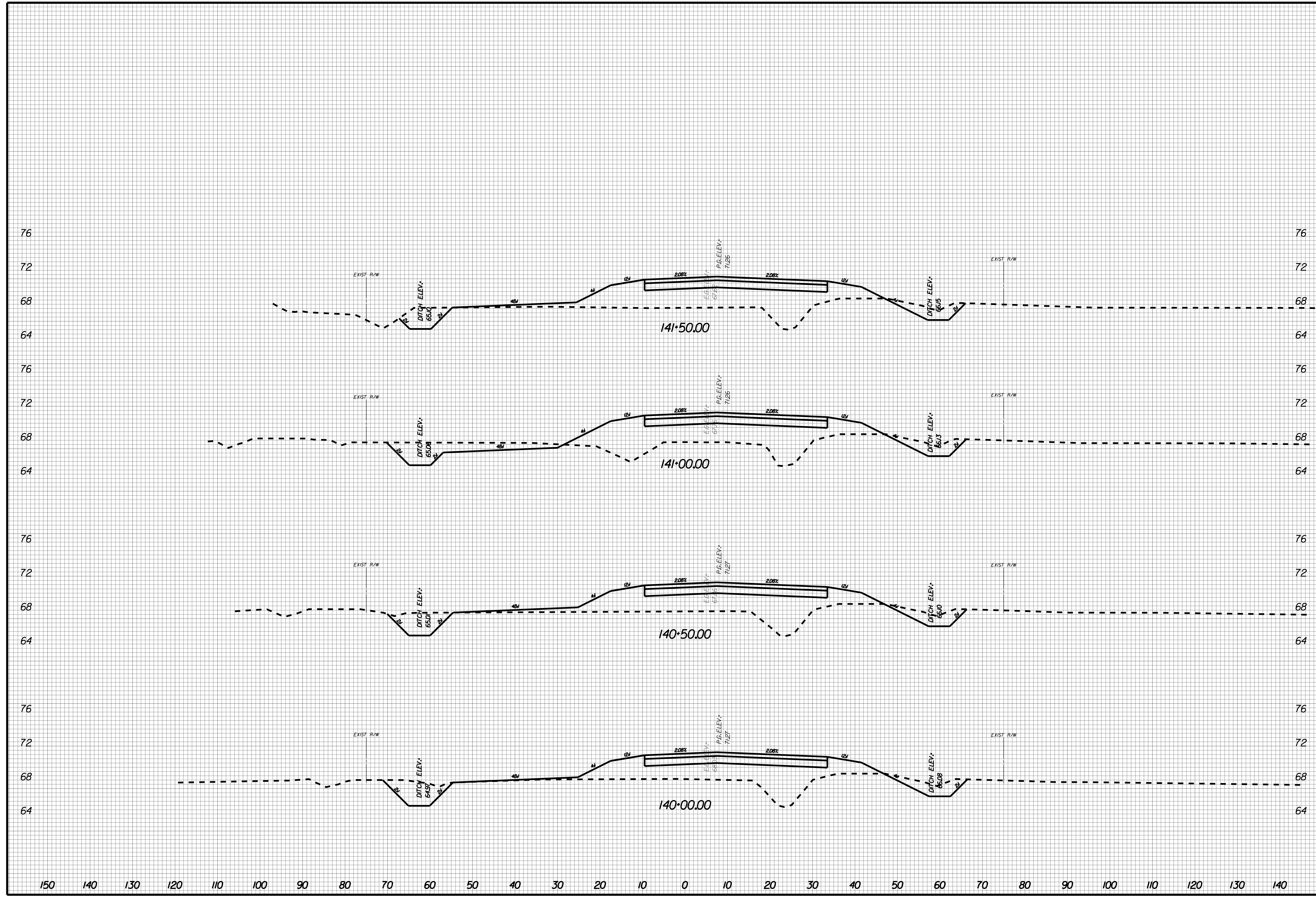
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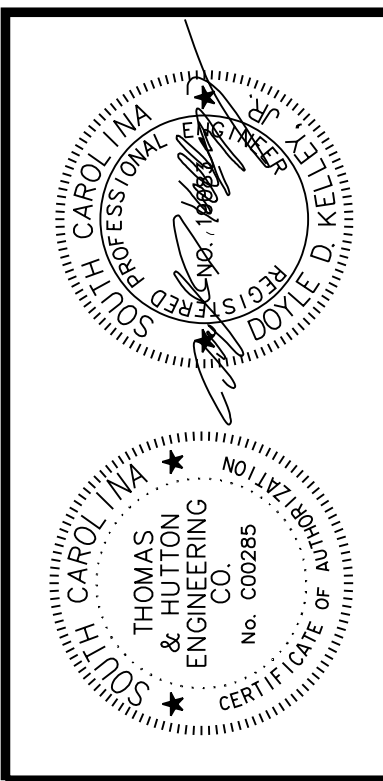
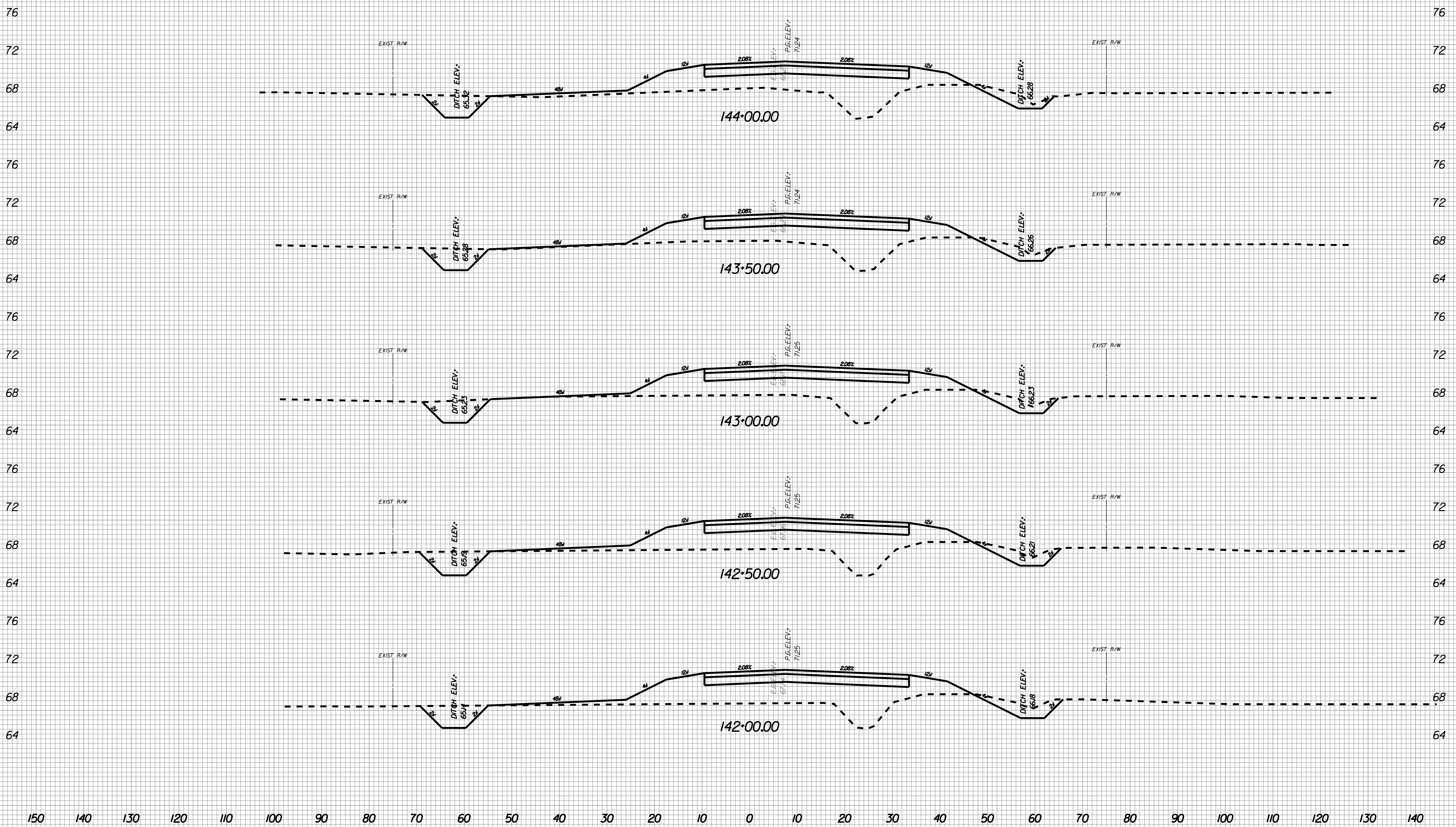
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X067





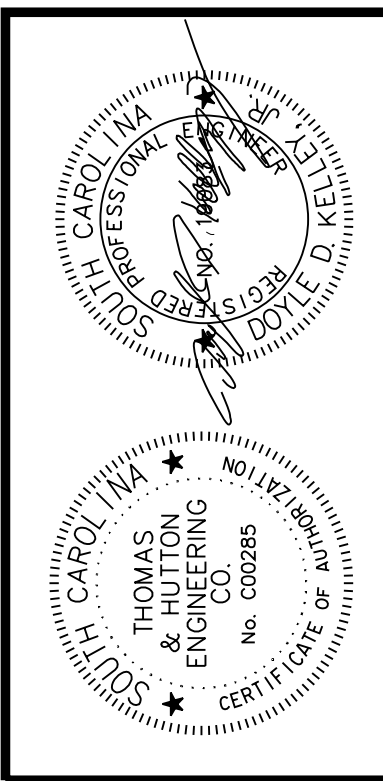
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X068



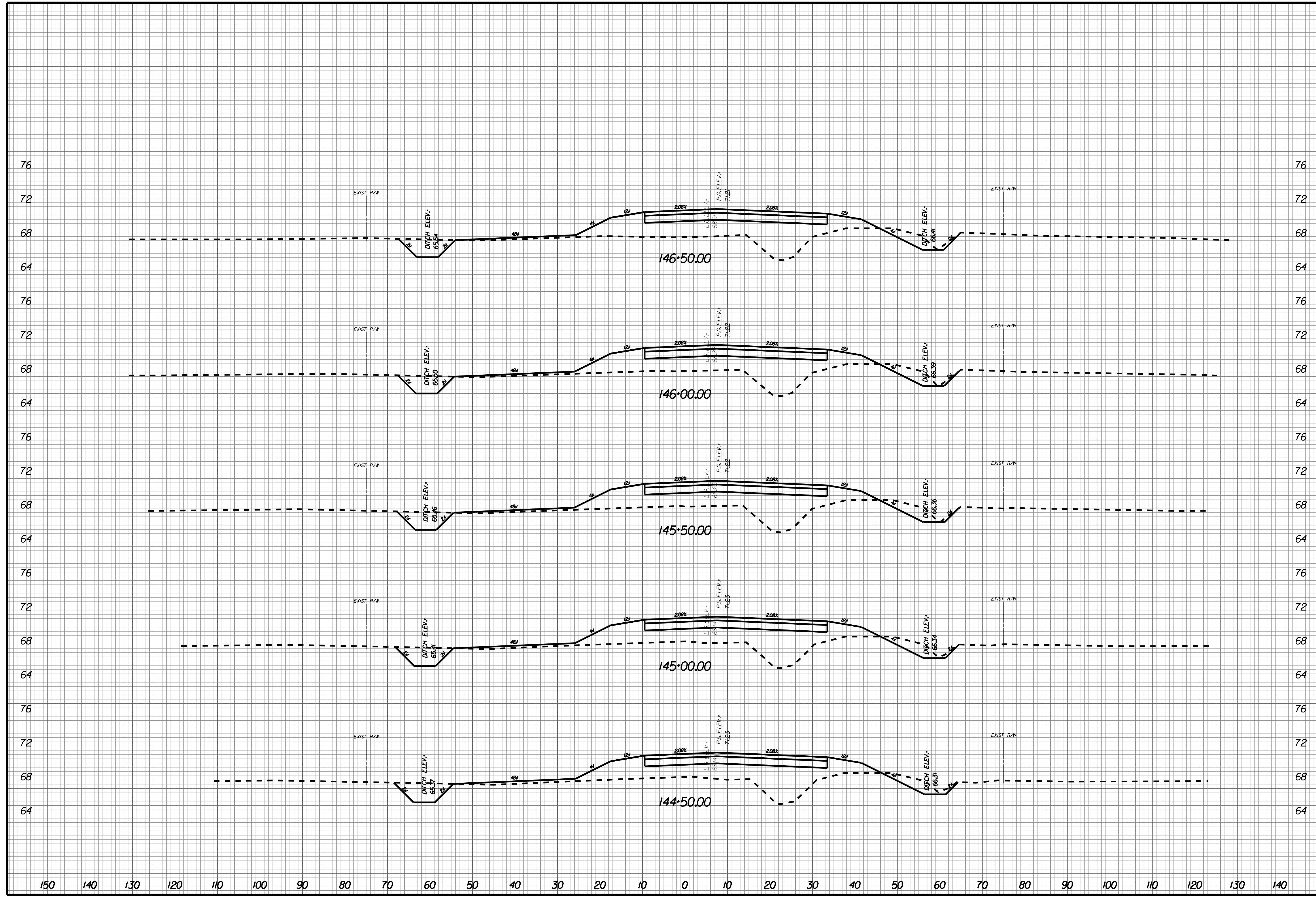
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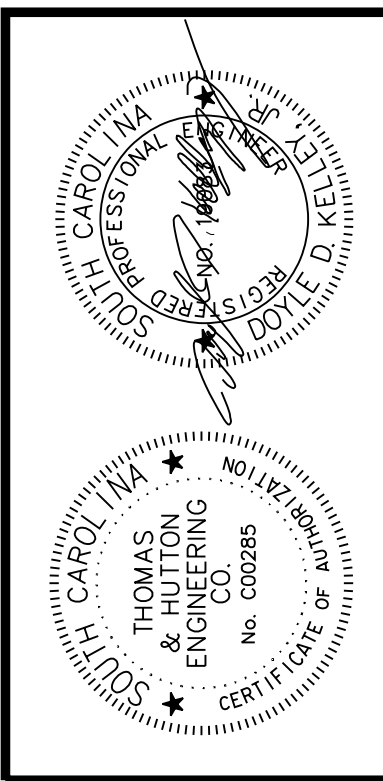
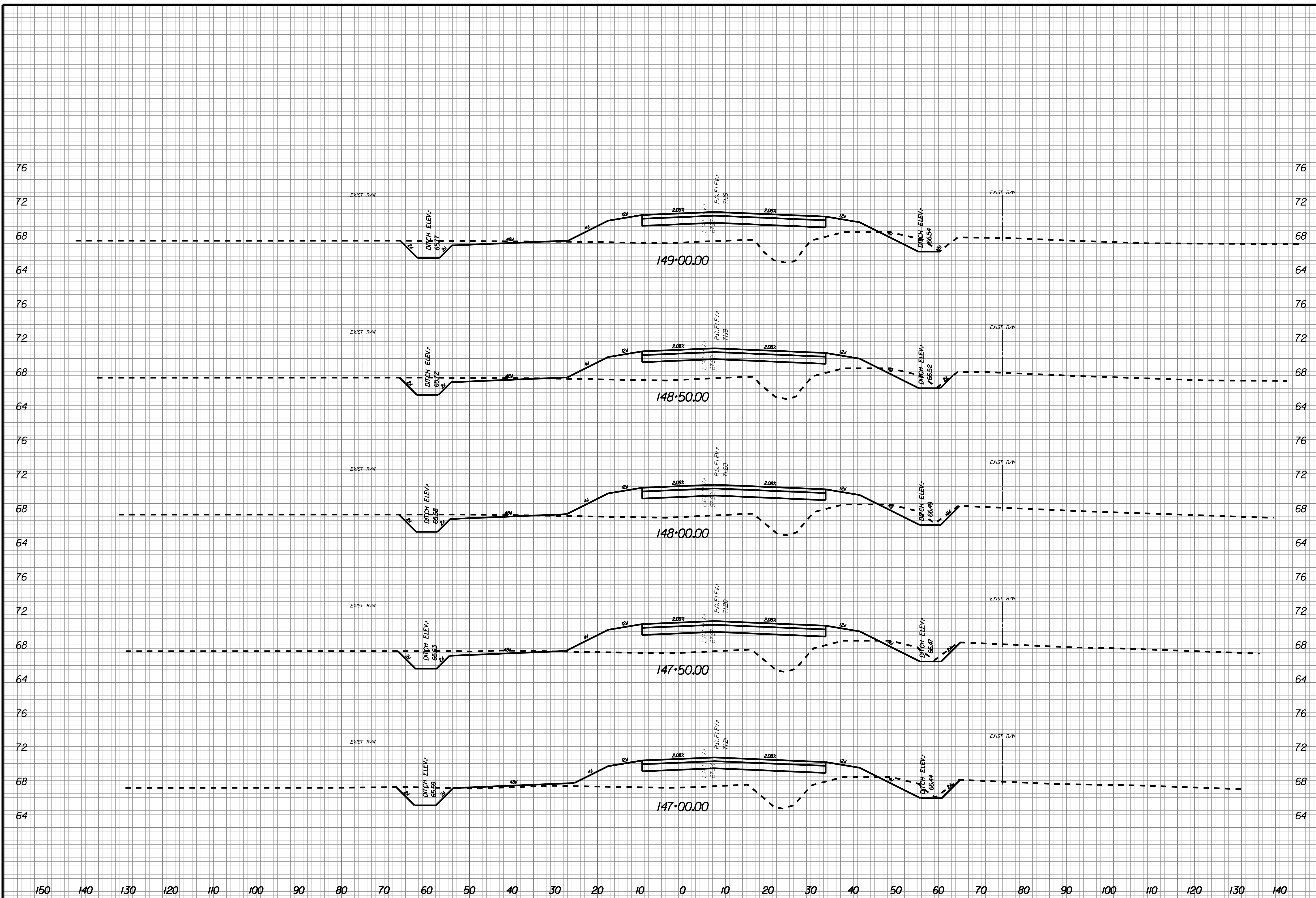
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X069





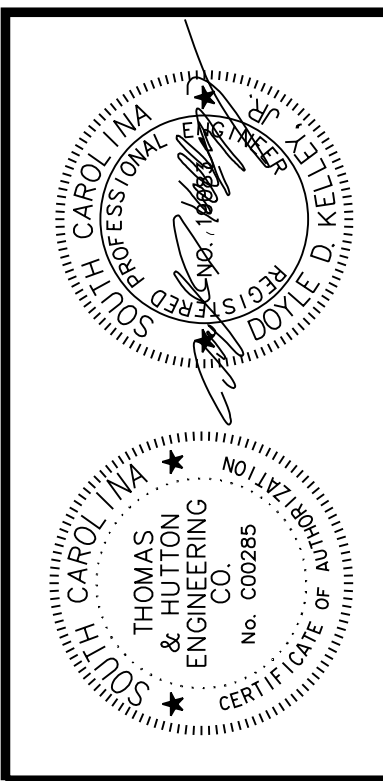
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X070



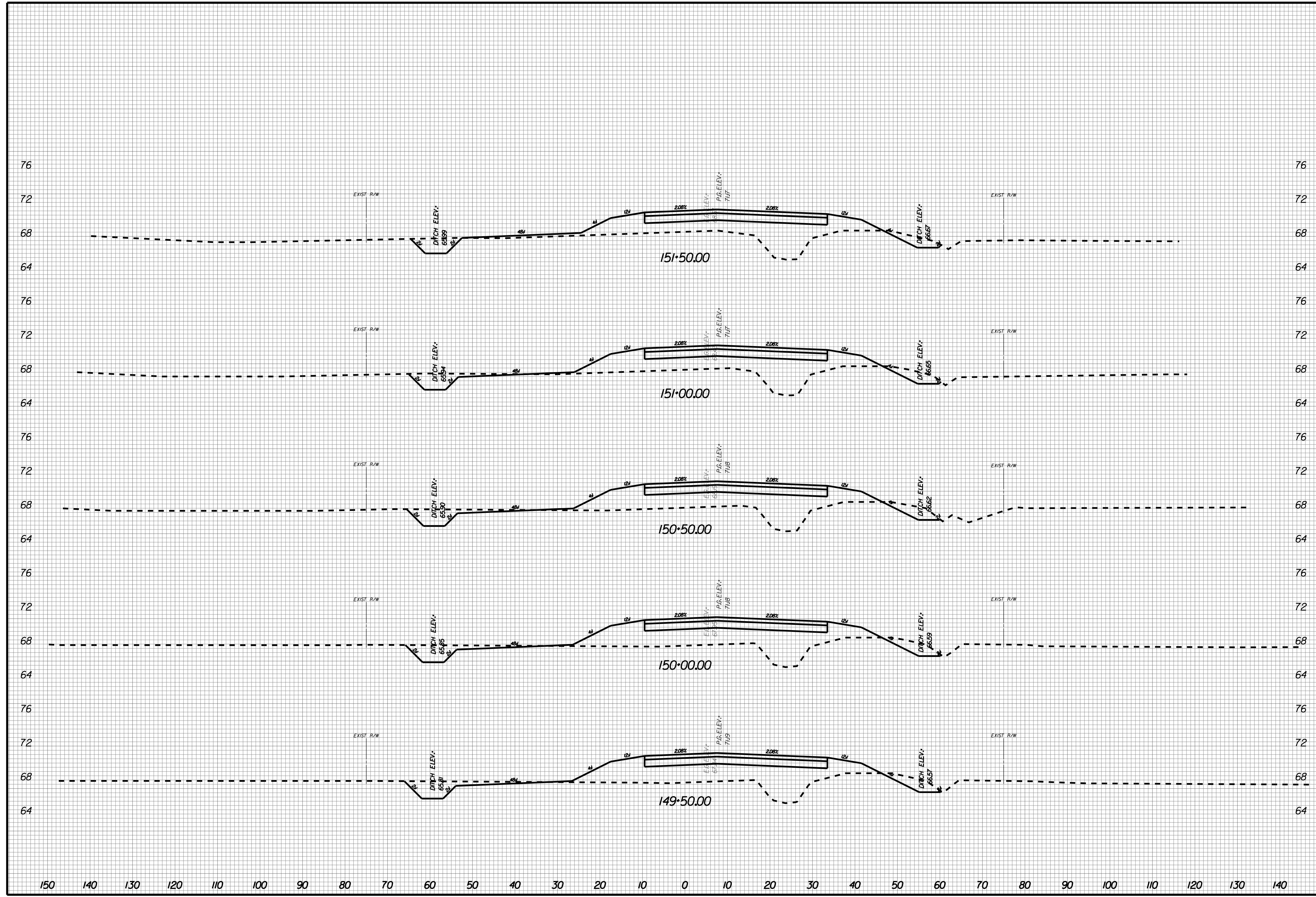
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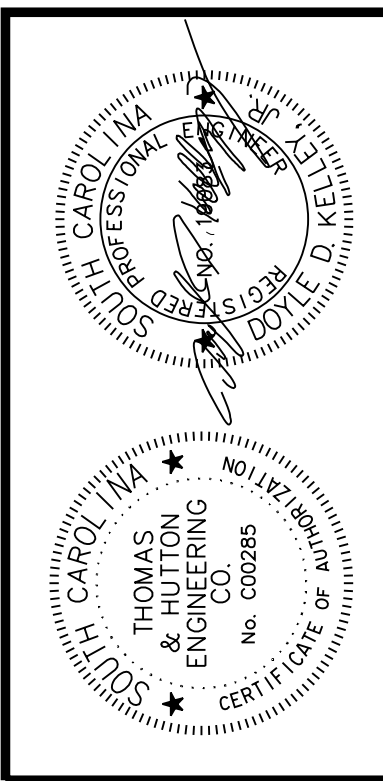
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X071





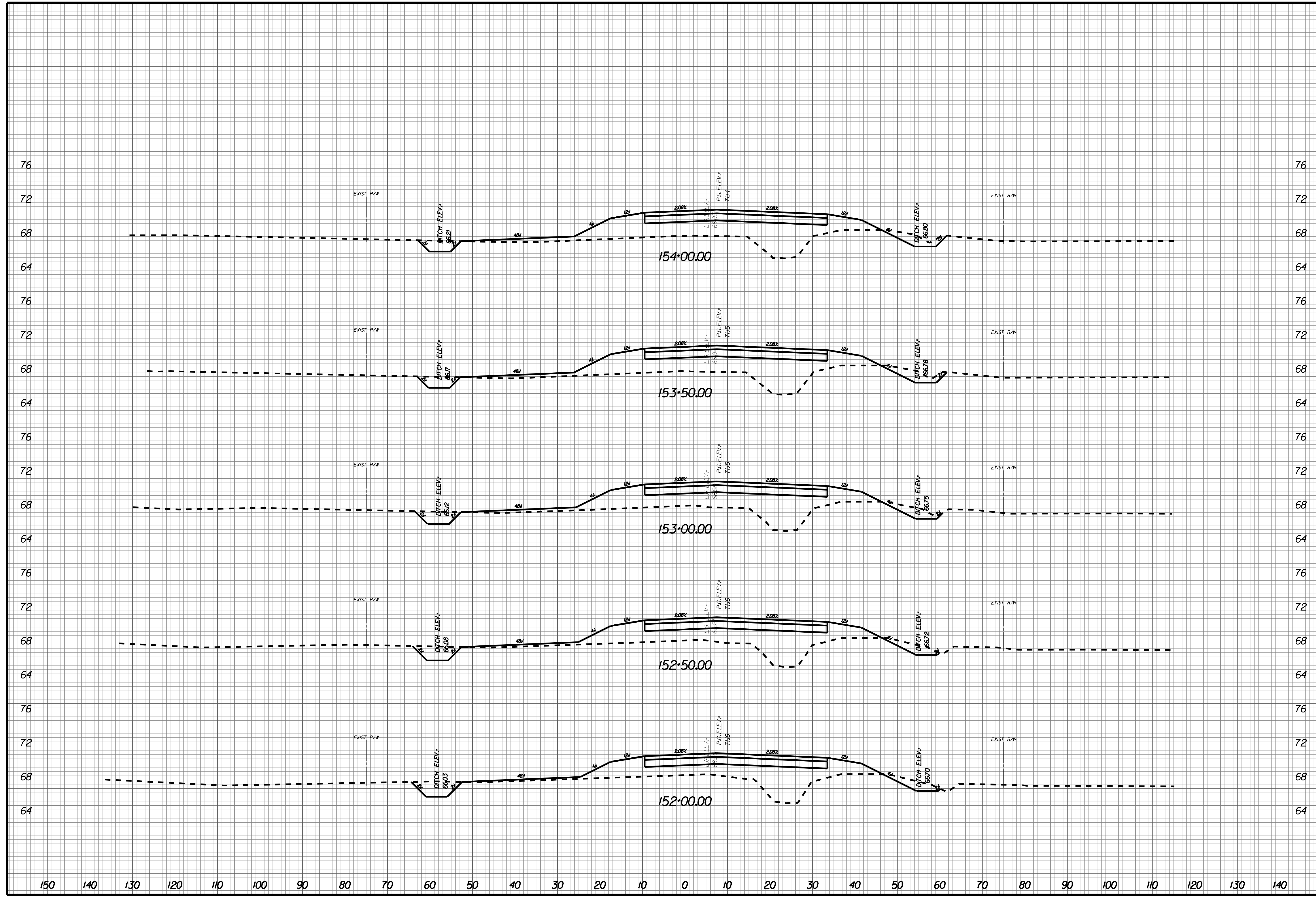
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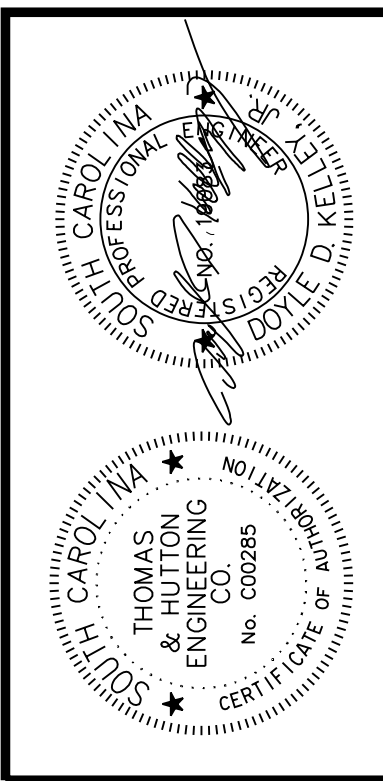
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X072





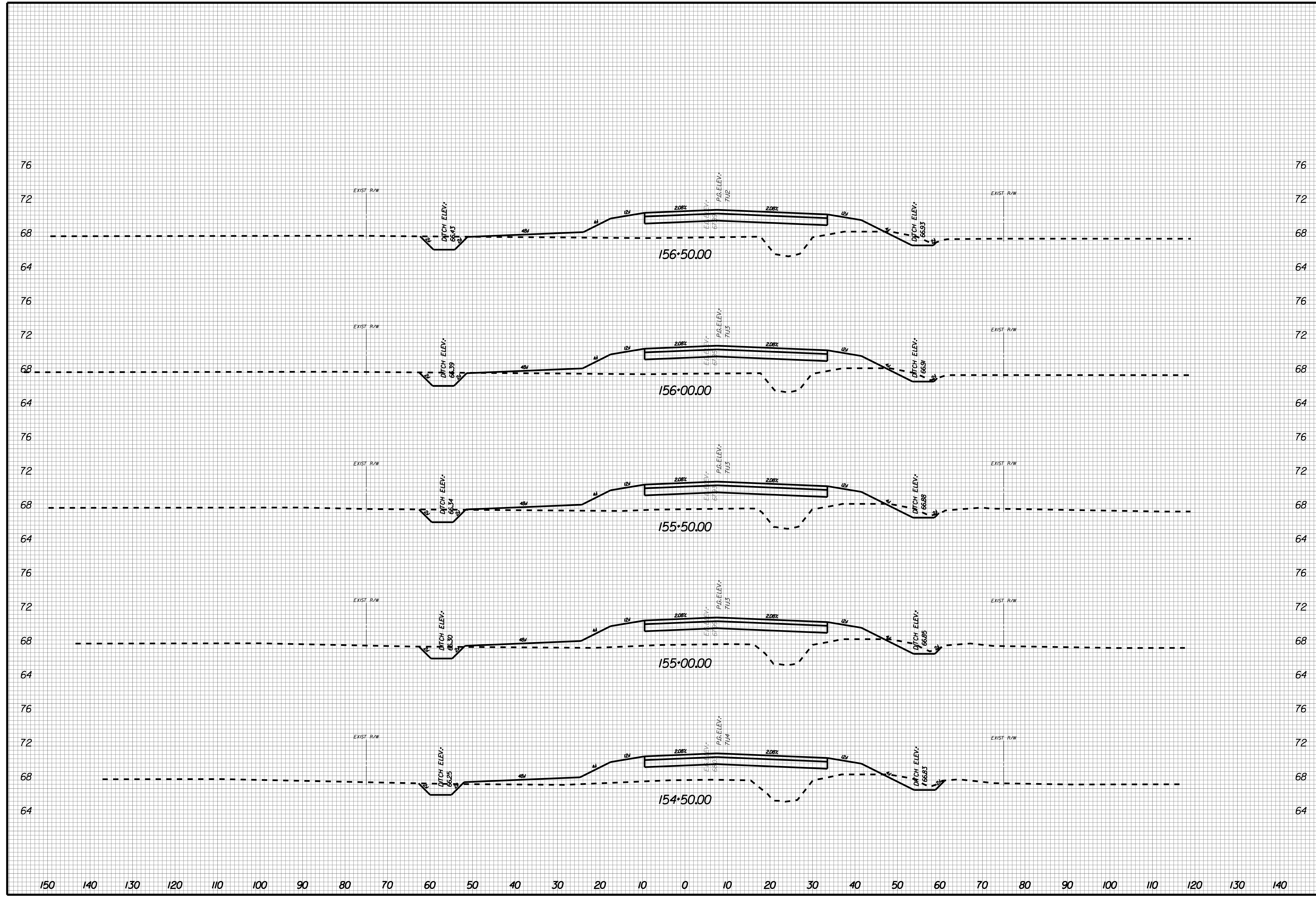
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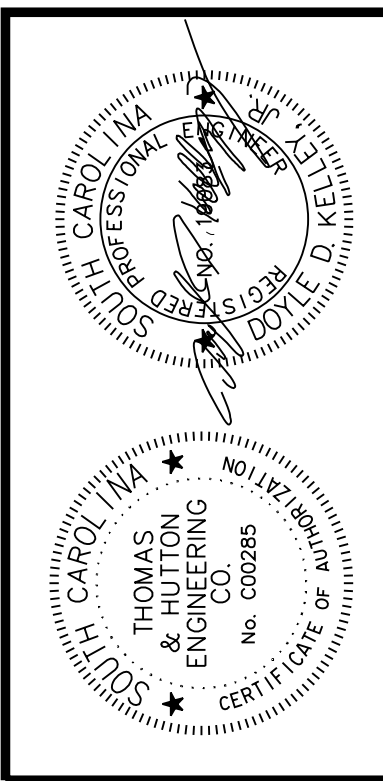
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X073





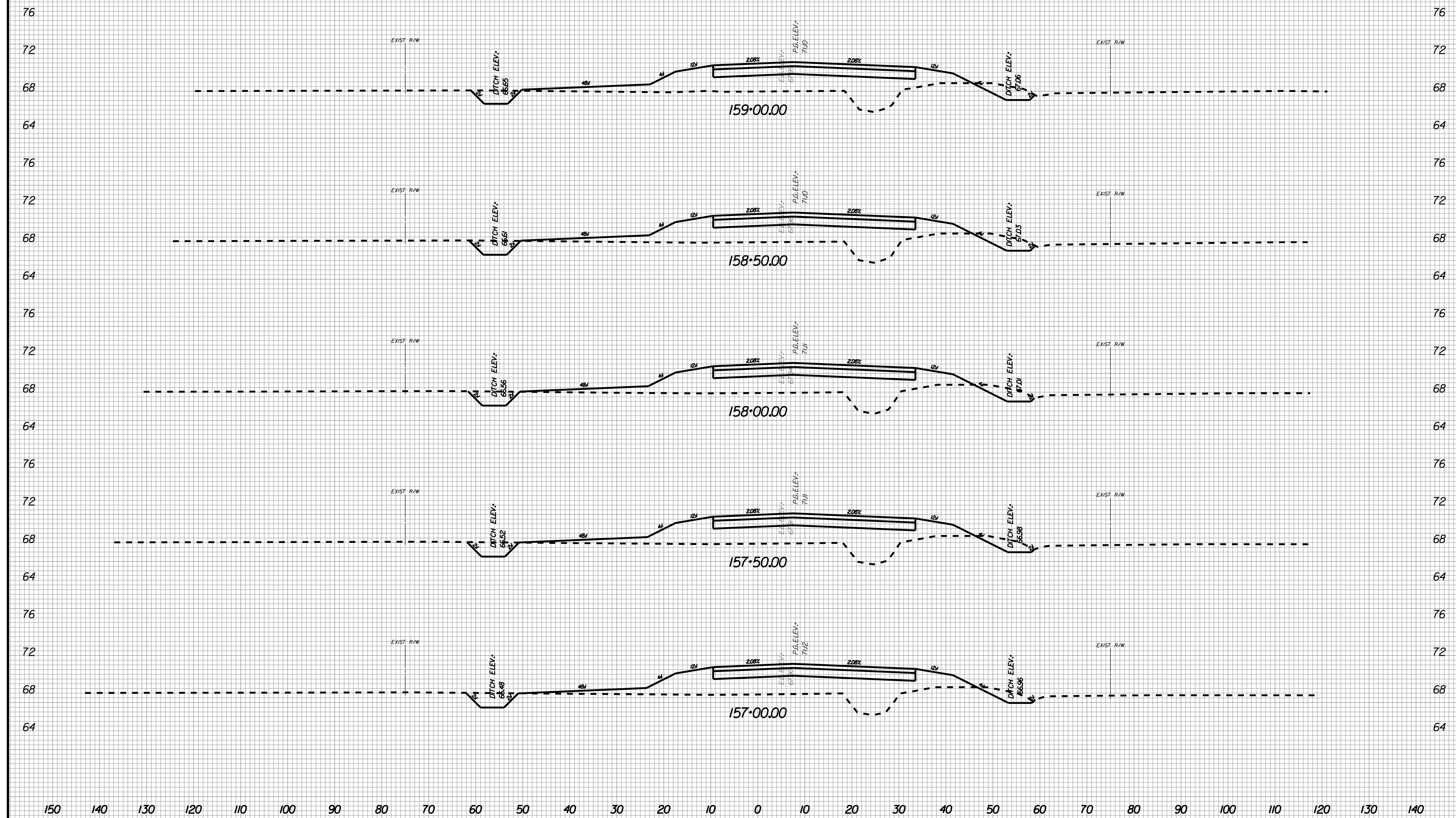
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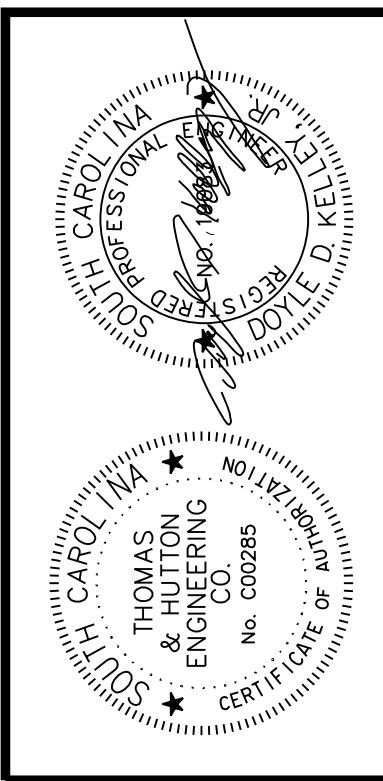
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X074





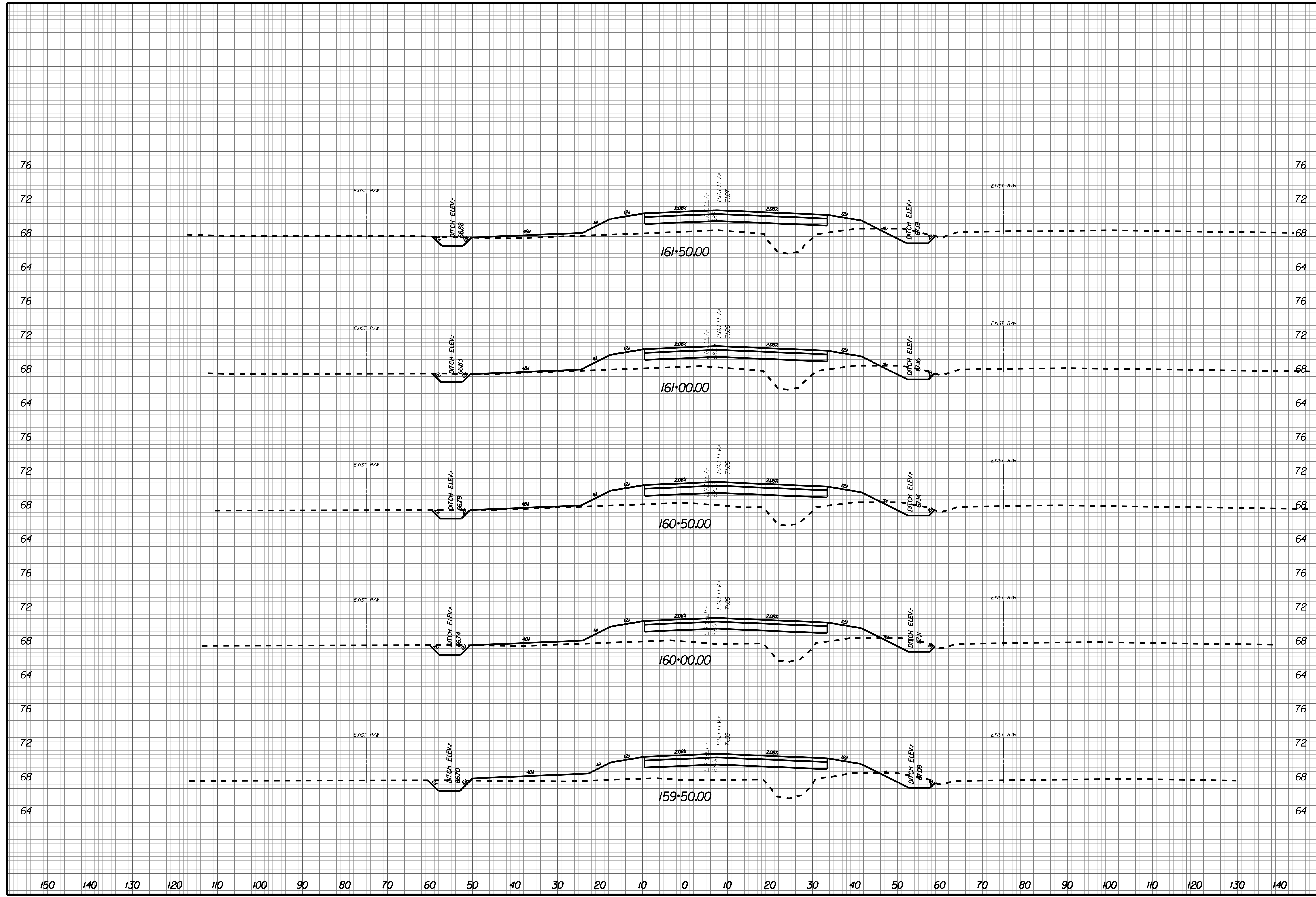
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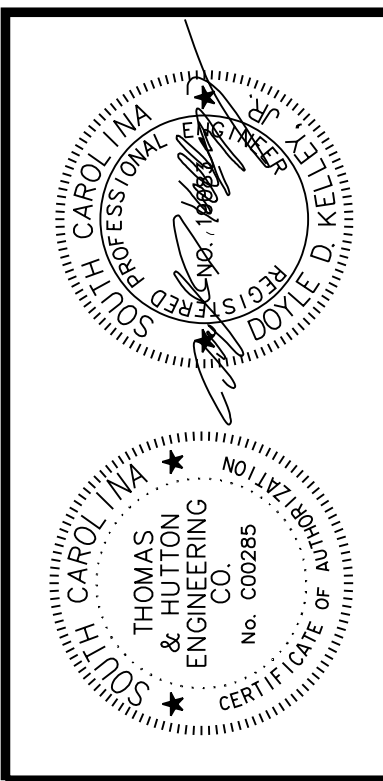
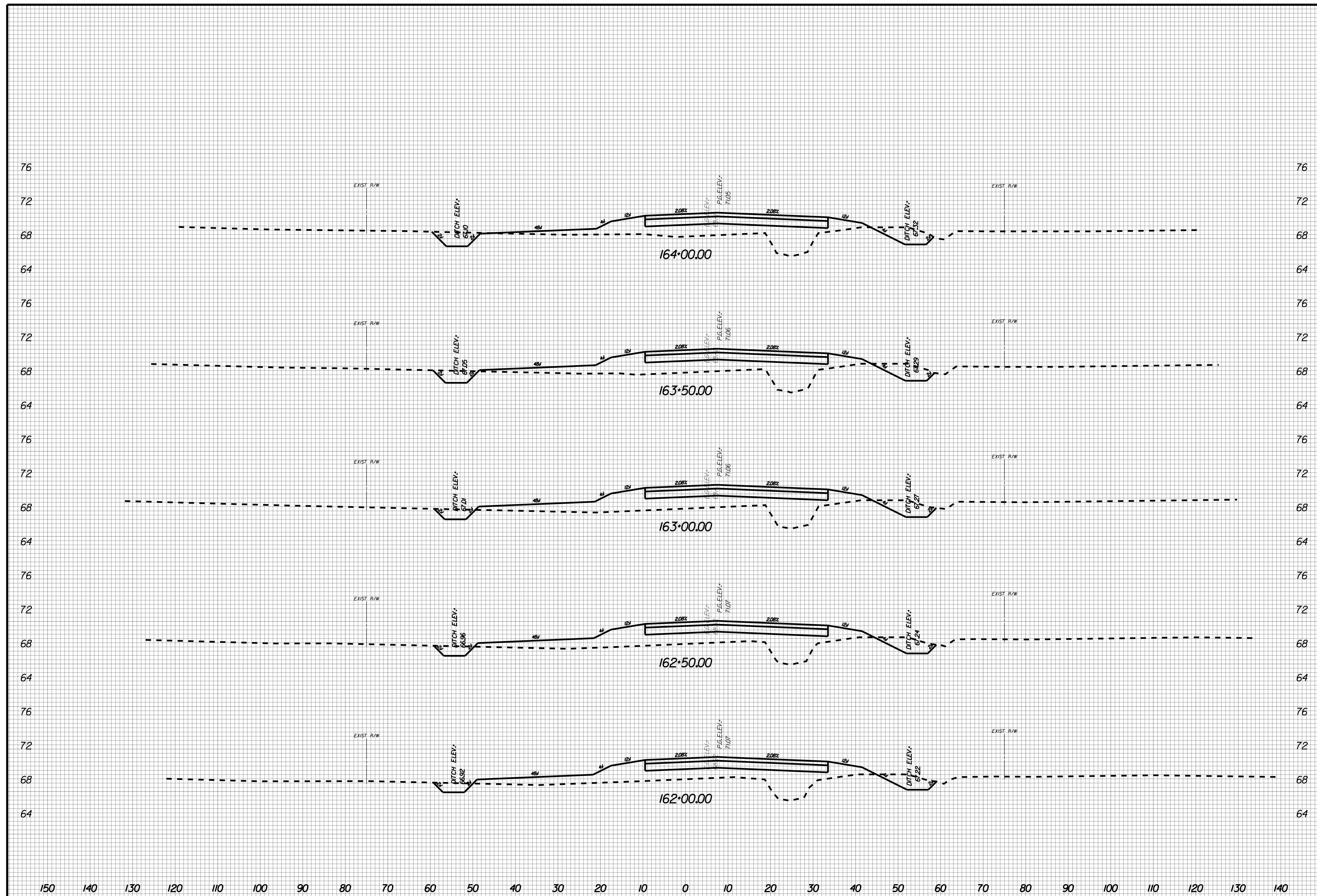
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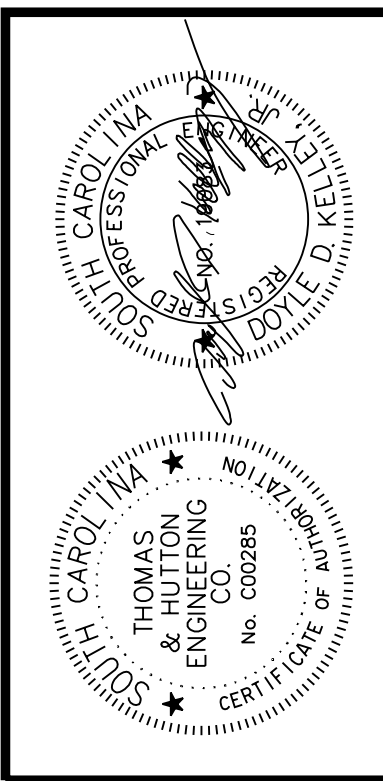
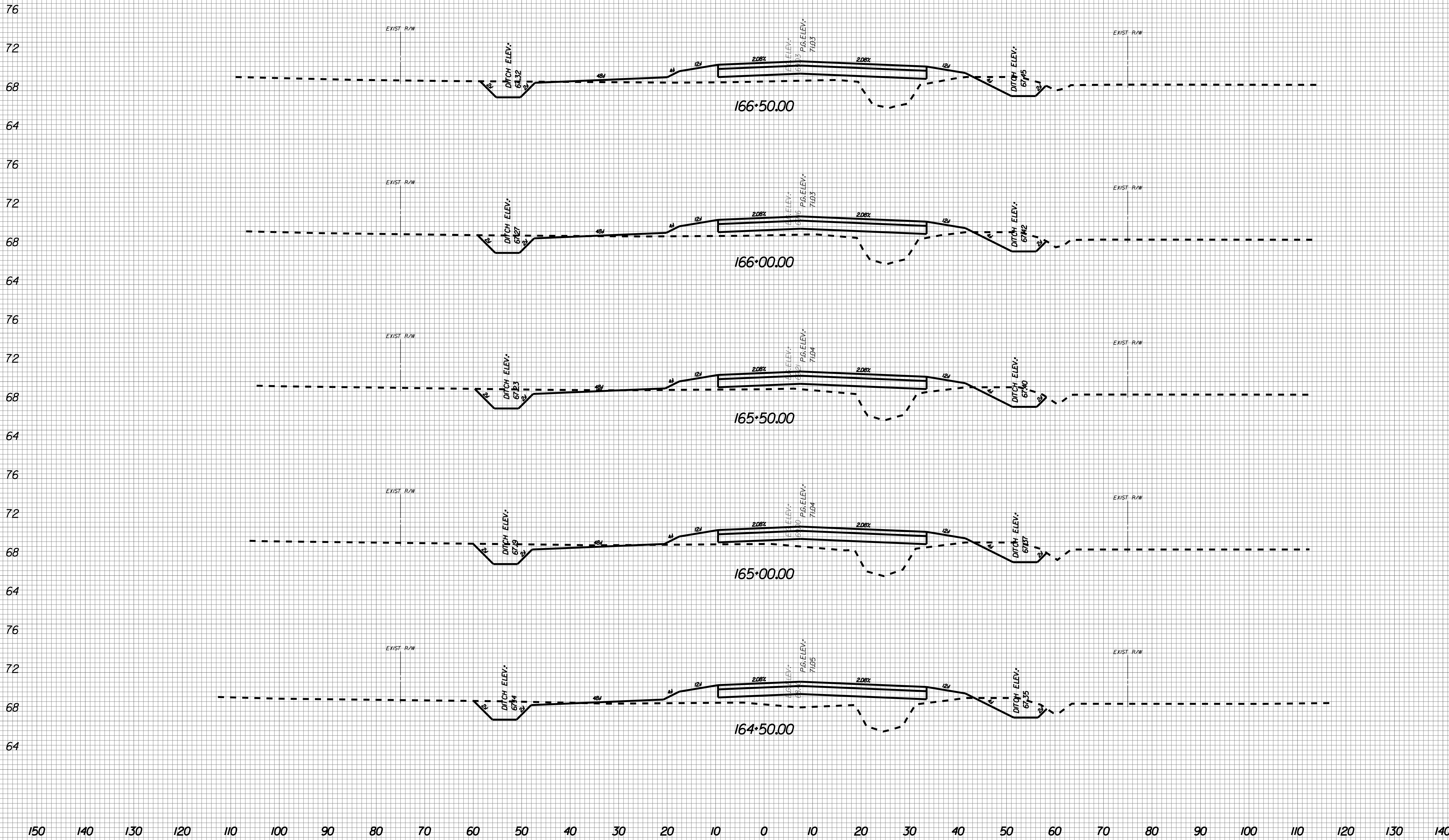
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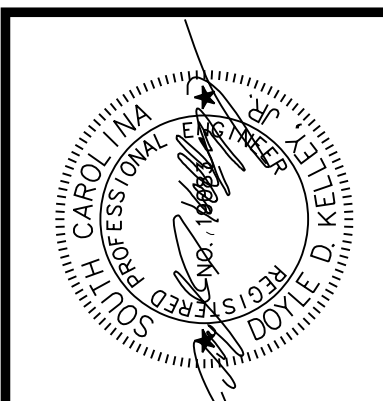
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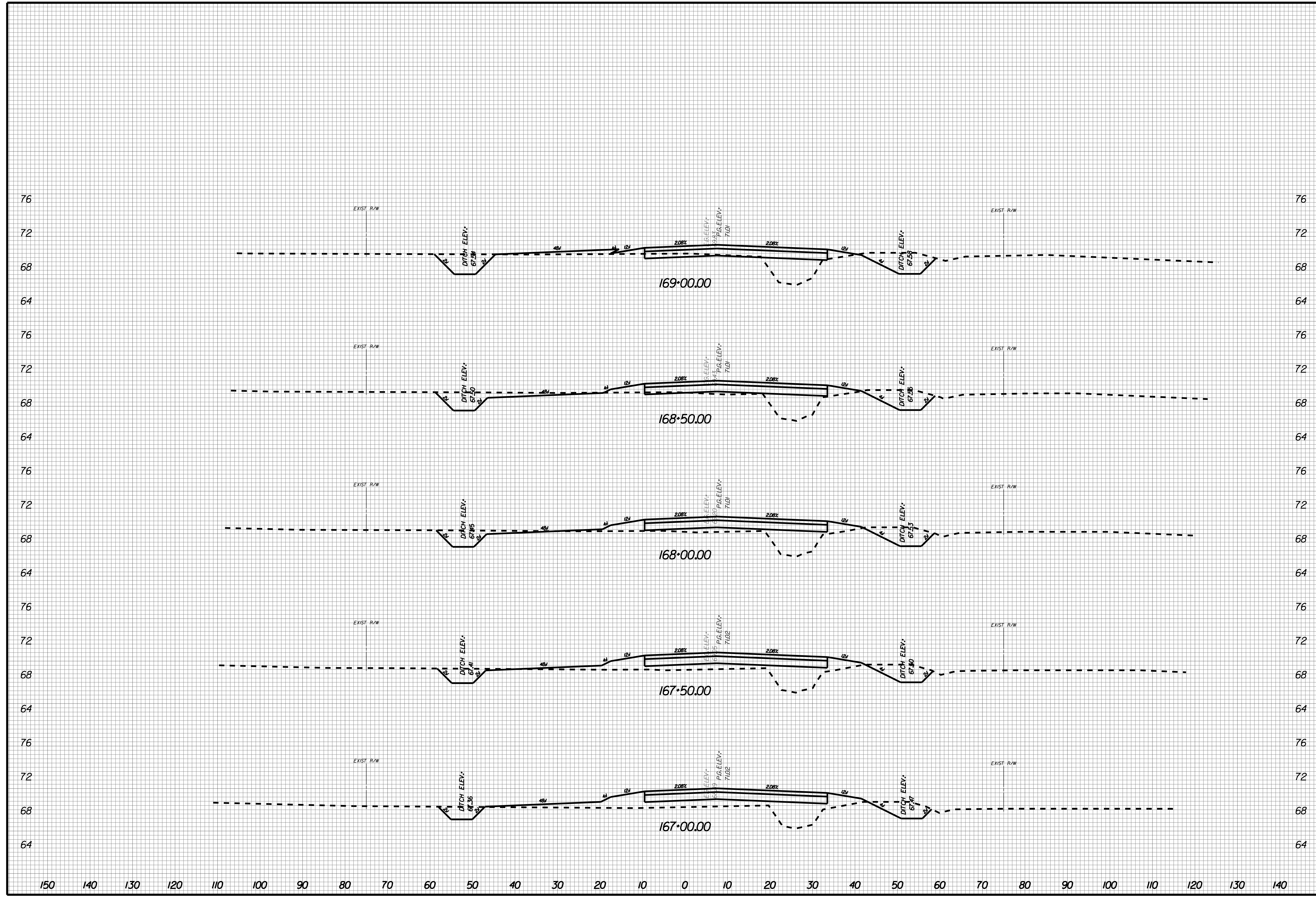
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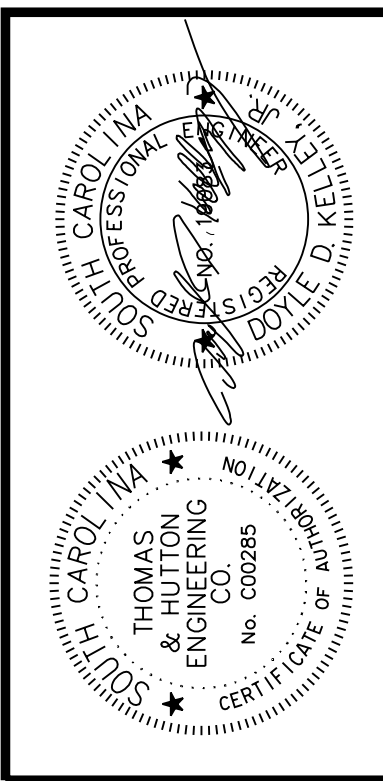
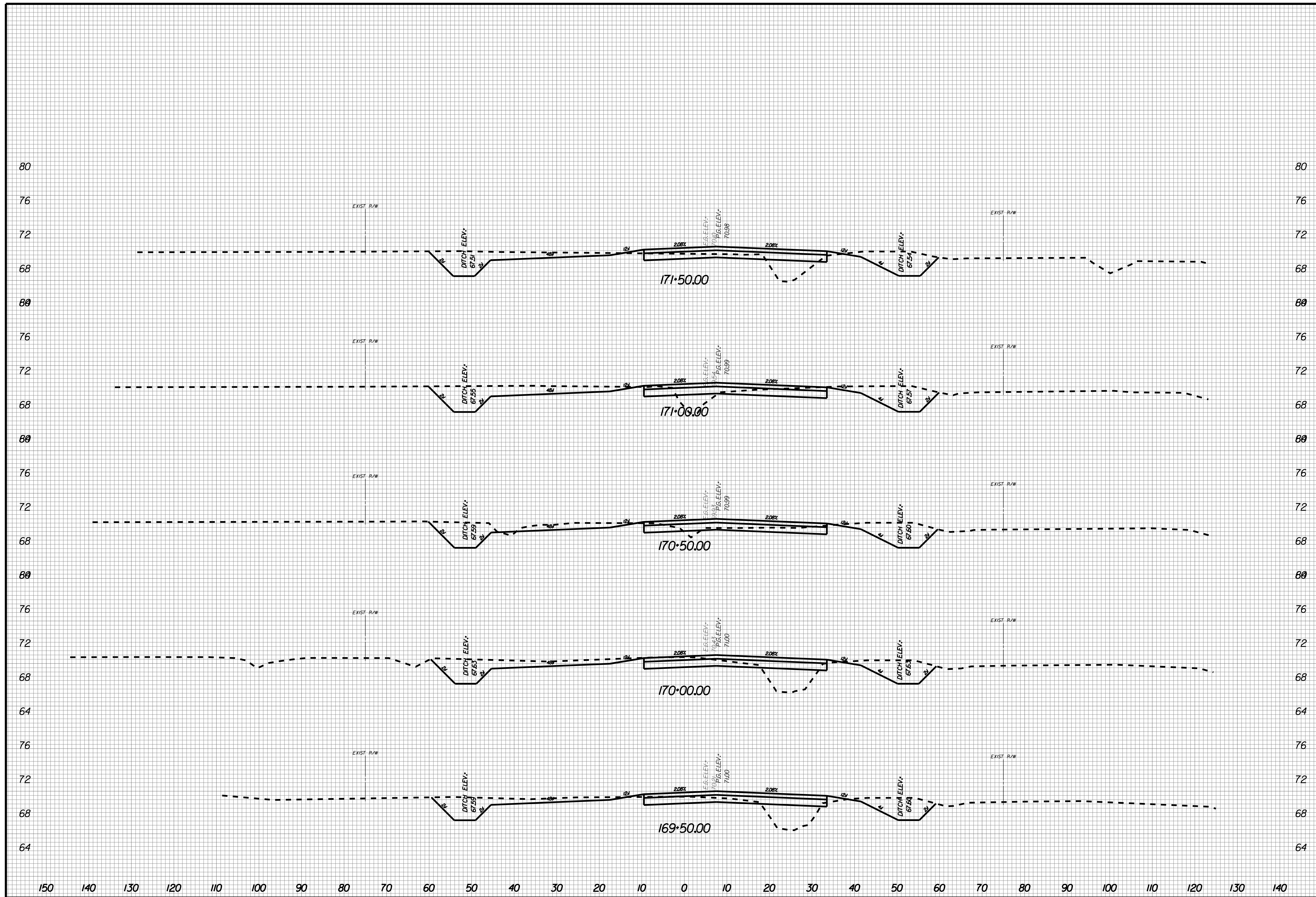
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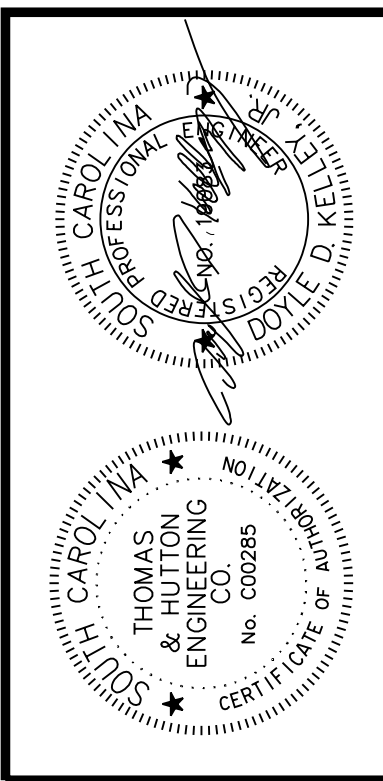
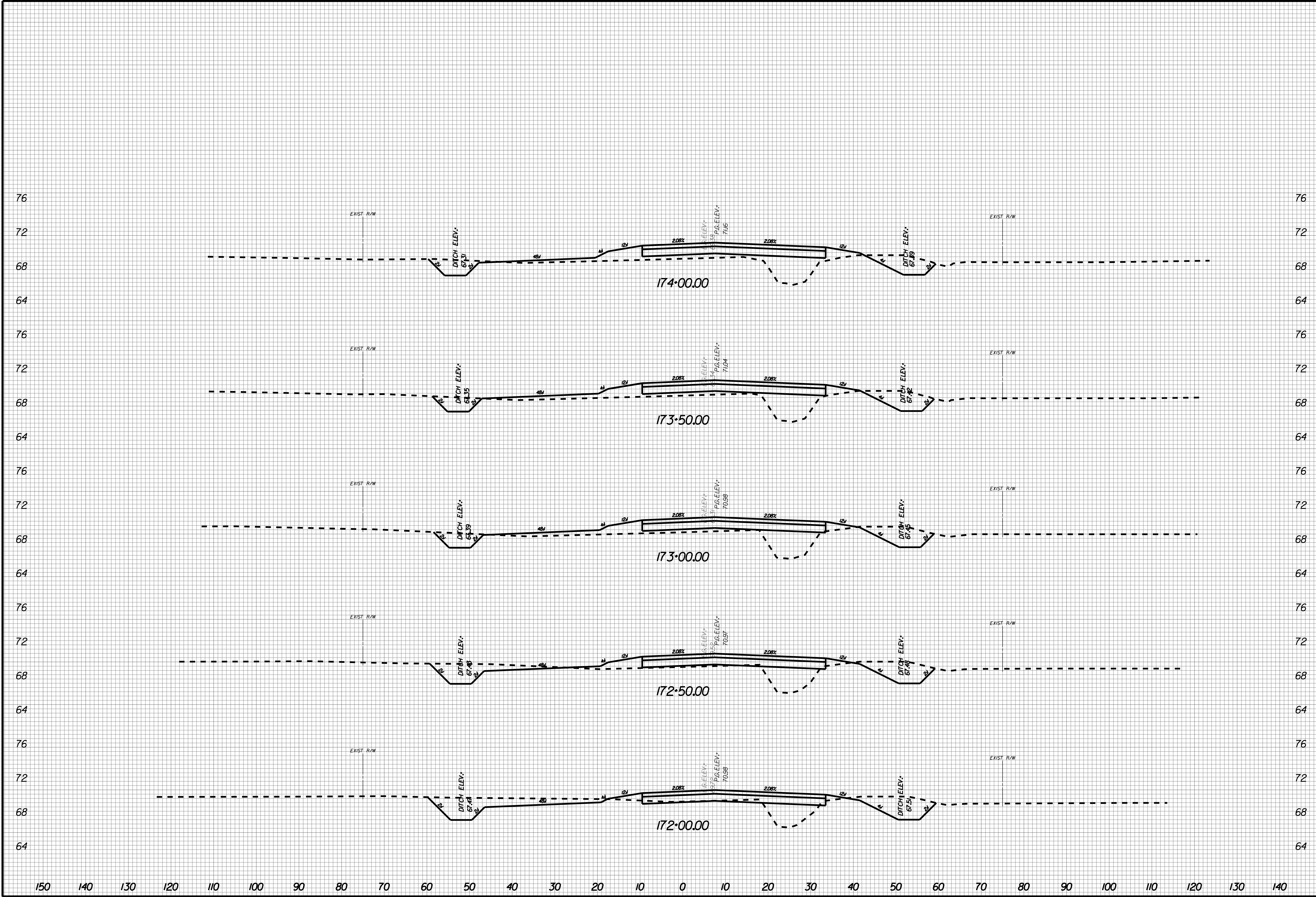
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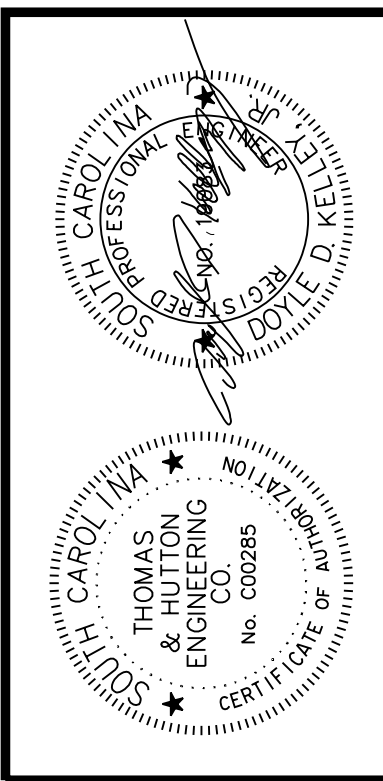
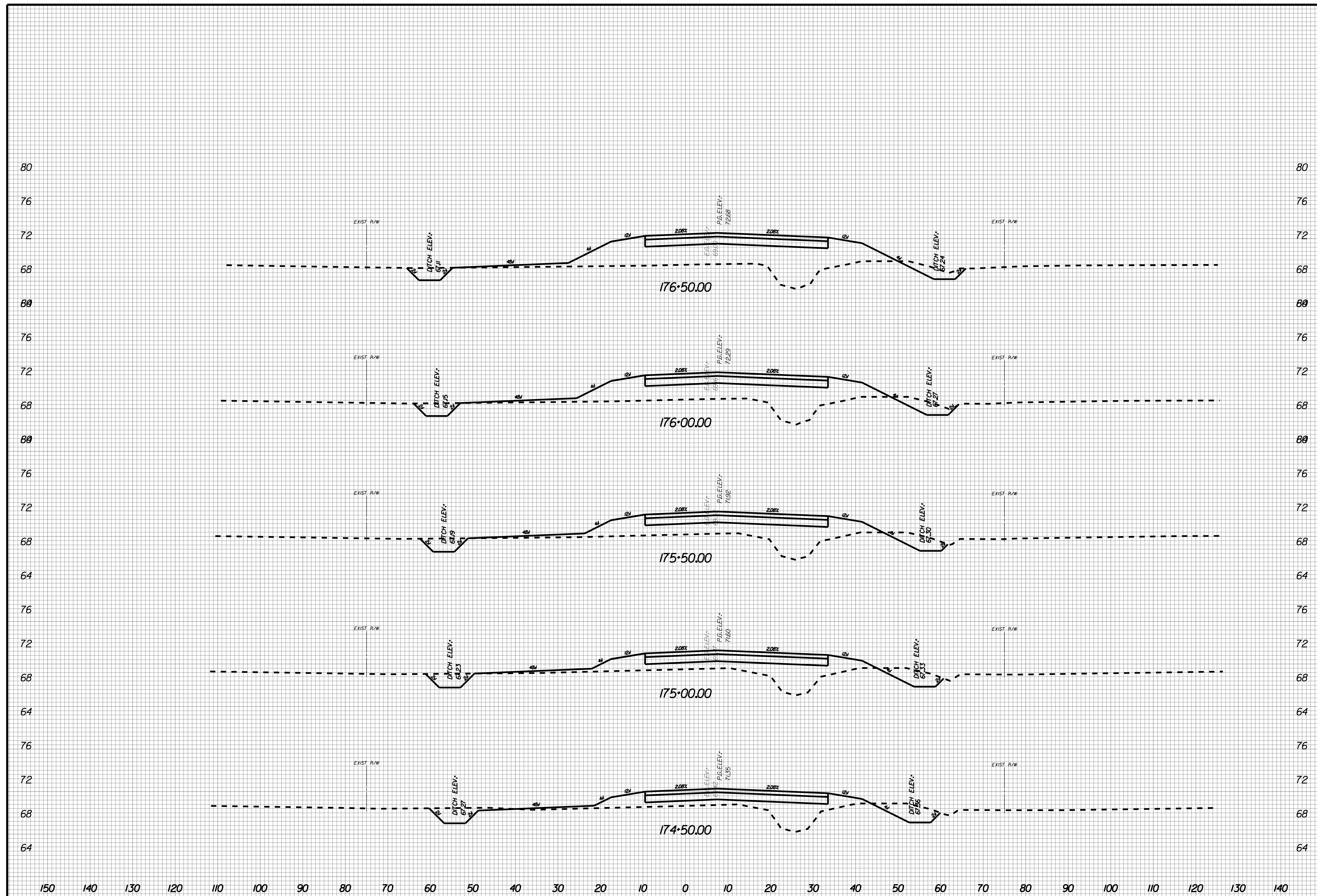
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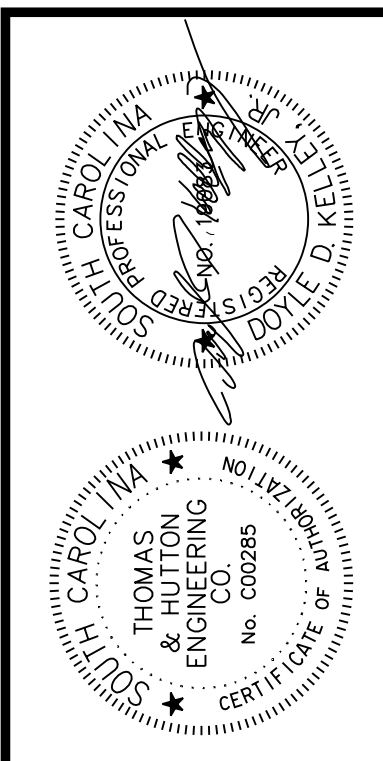
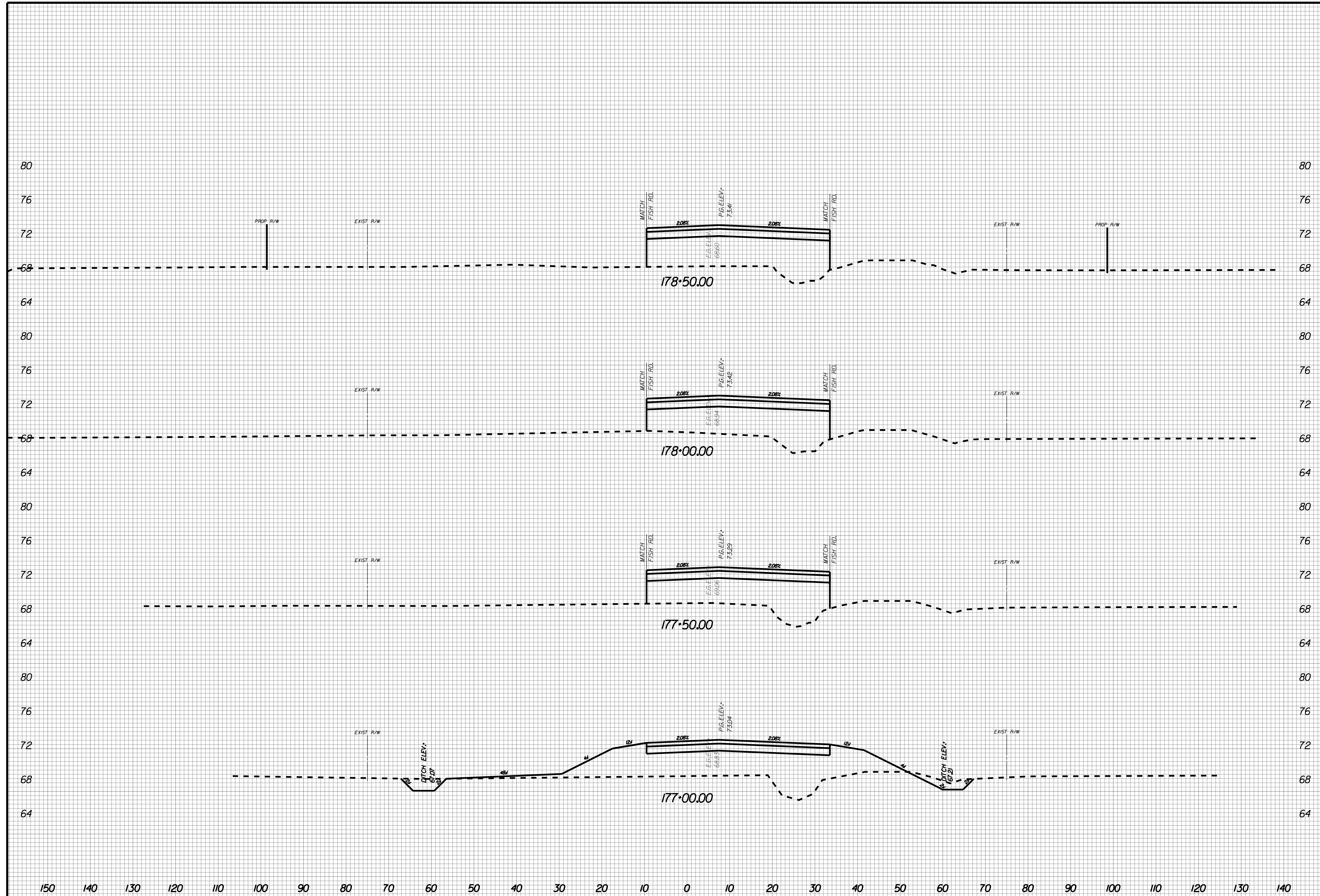
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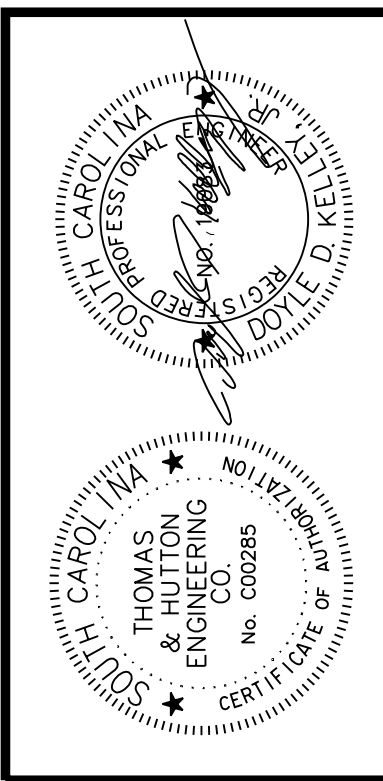
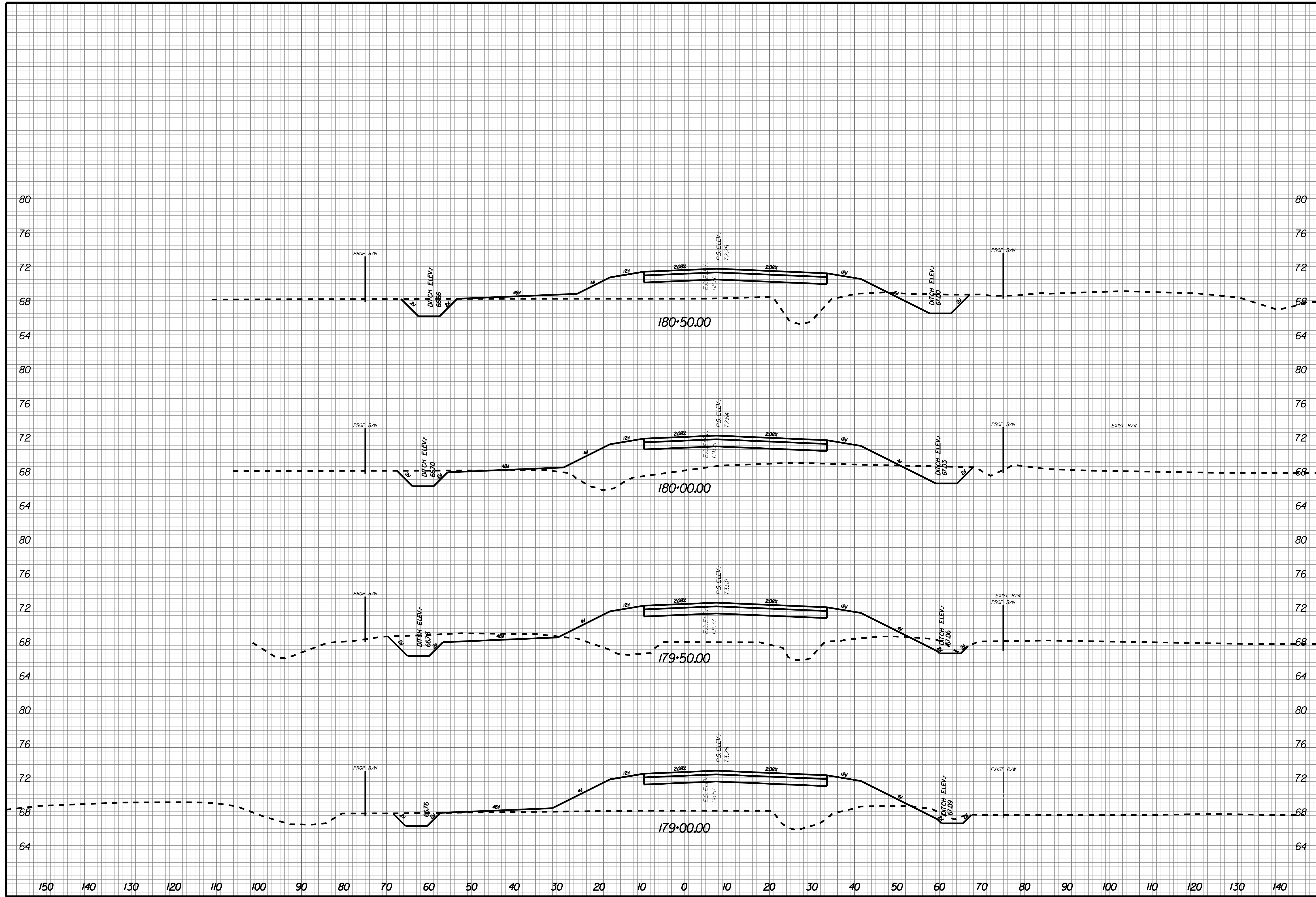
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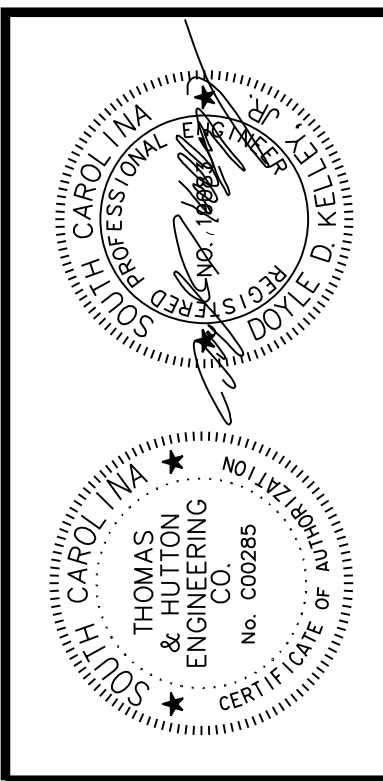
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X083



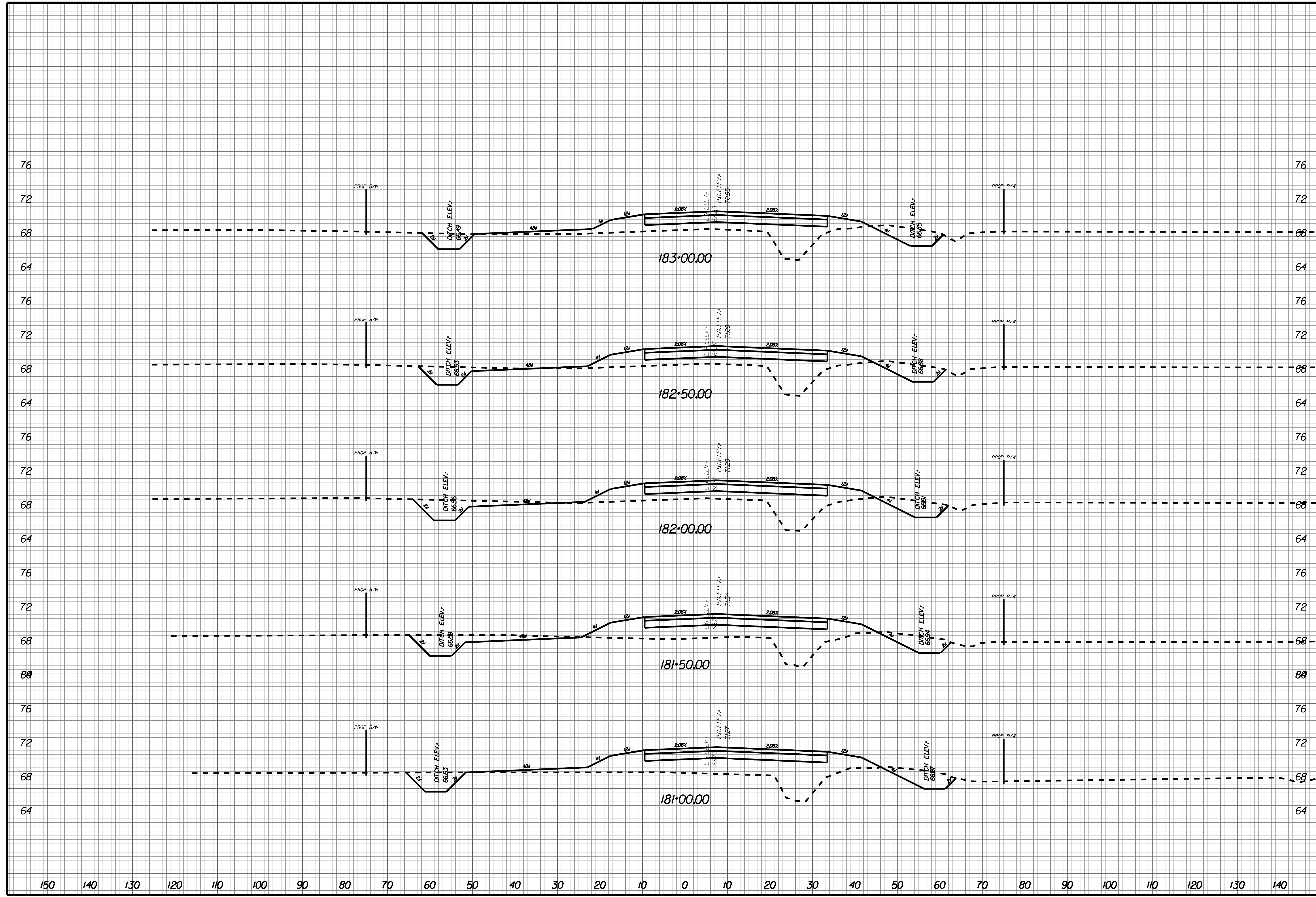
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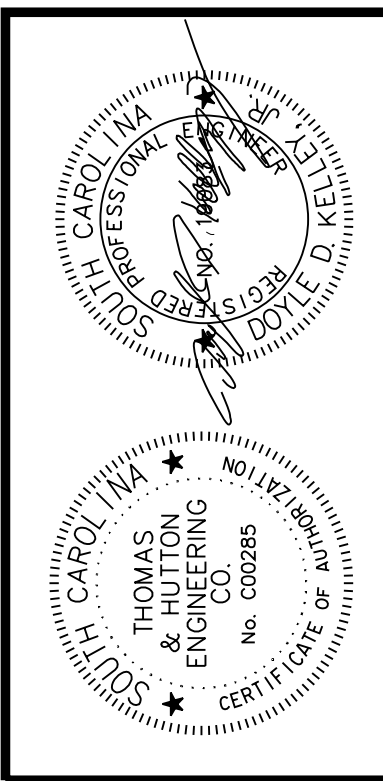
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 CROSS SECTIONS

JOB NO: J-25644.1005
 DATE: _____
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 APPROVED: _____
 SCALE: AS NOTED

X084





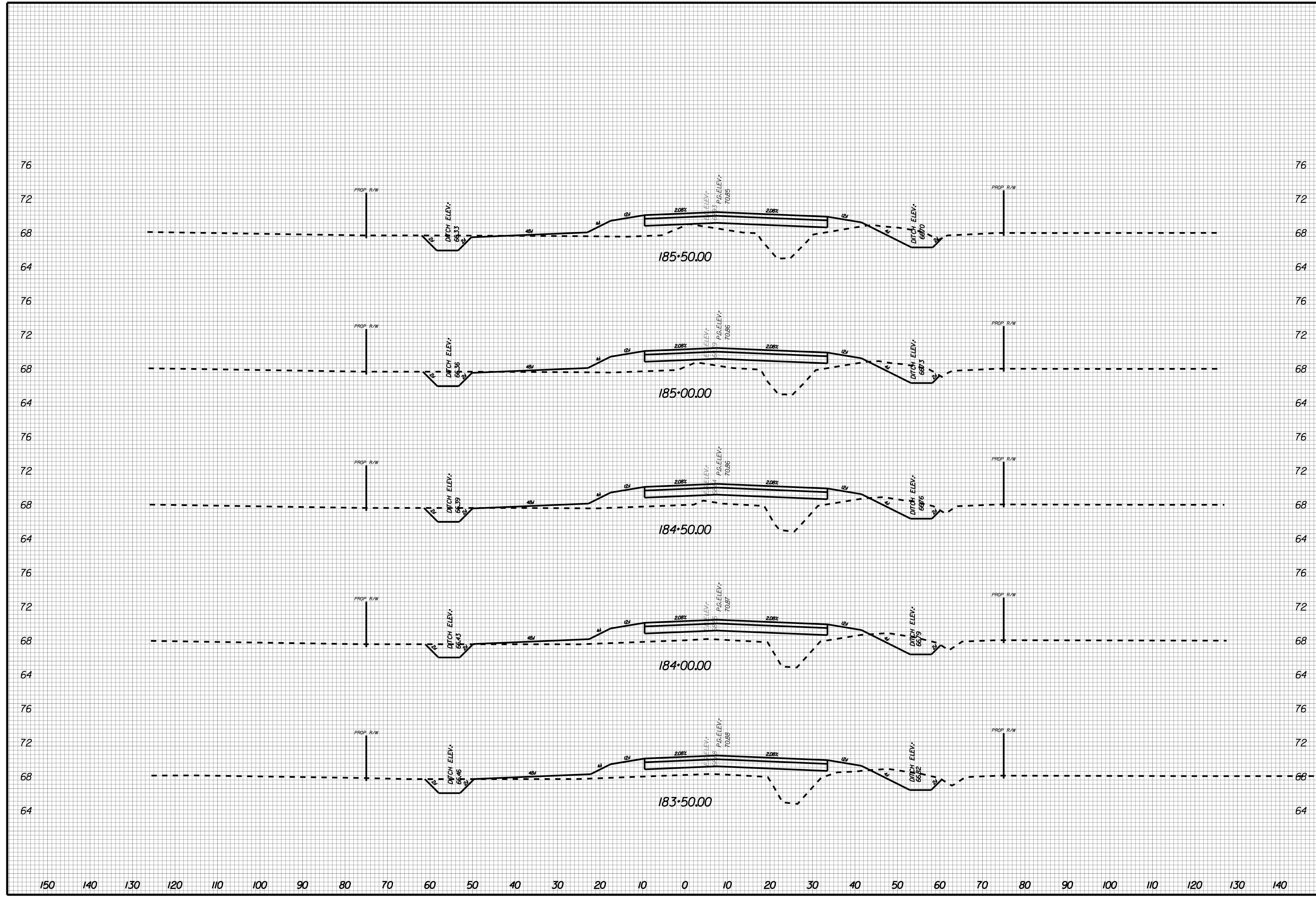
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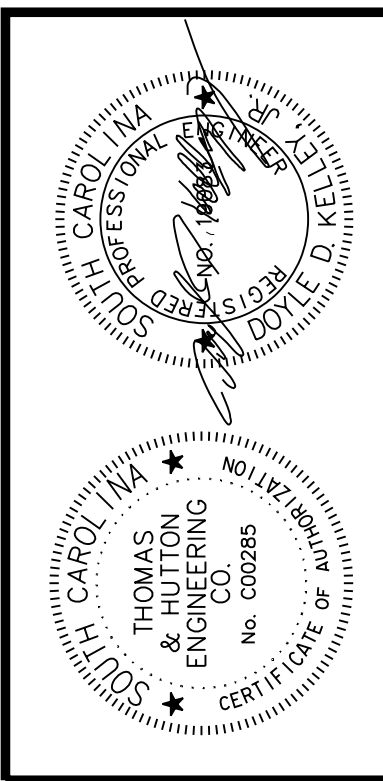
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X085





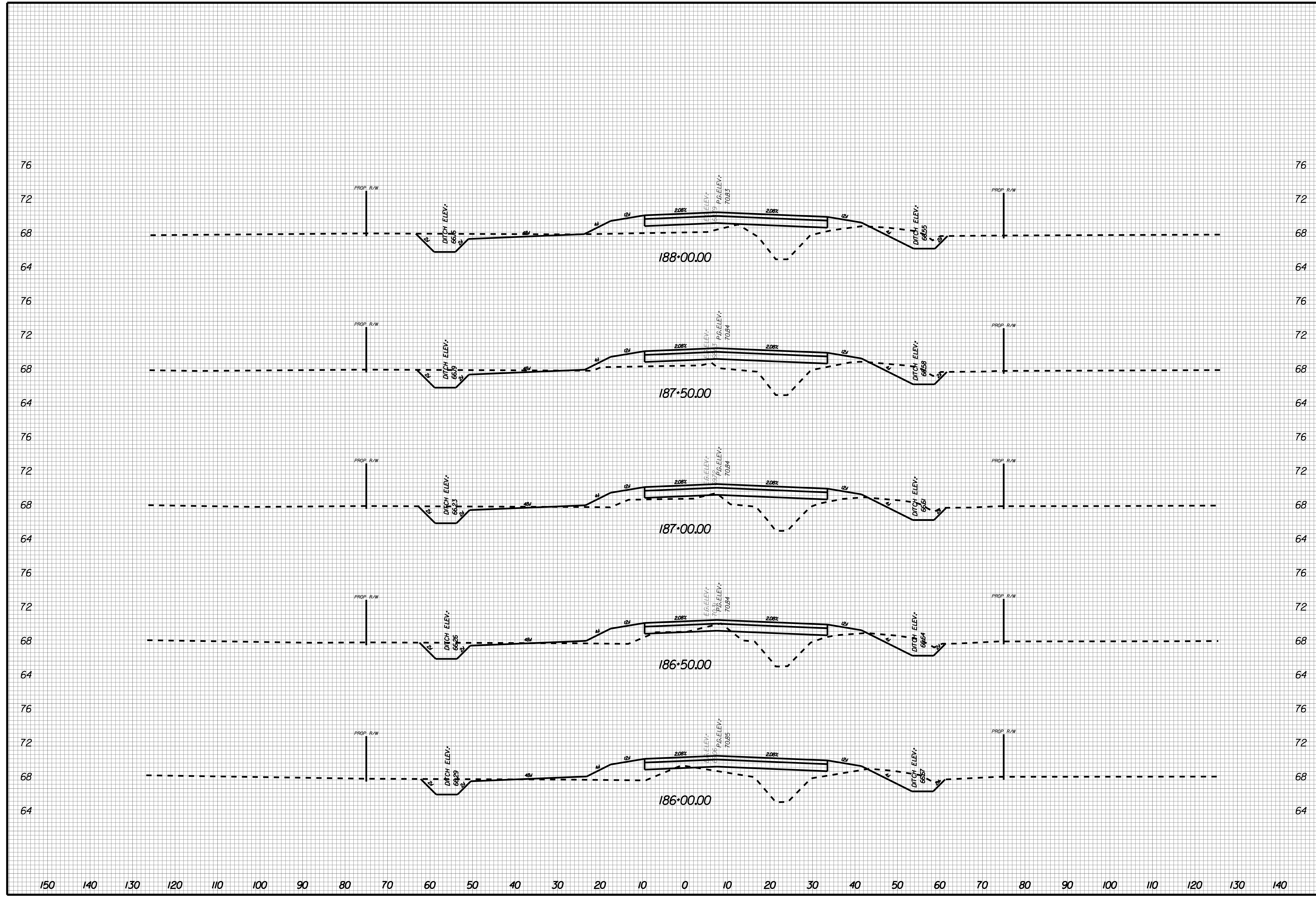
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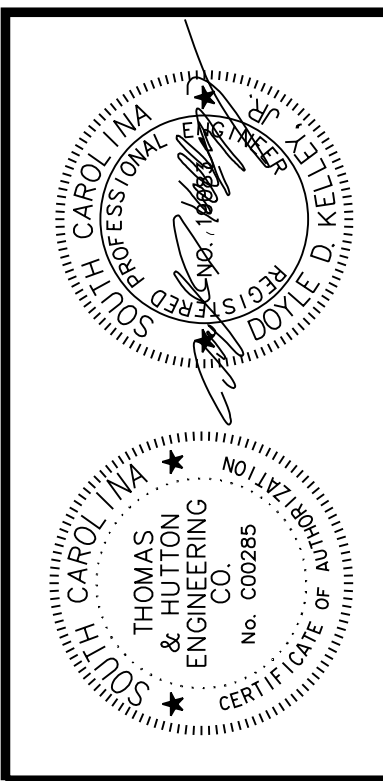
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X086





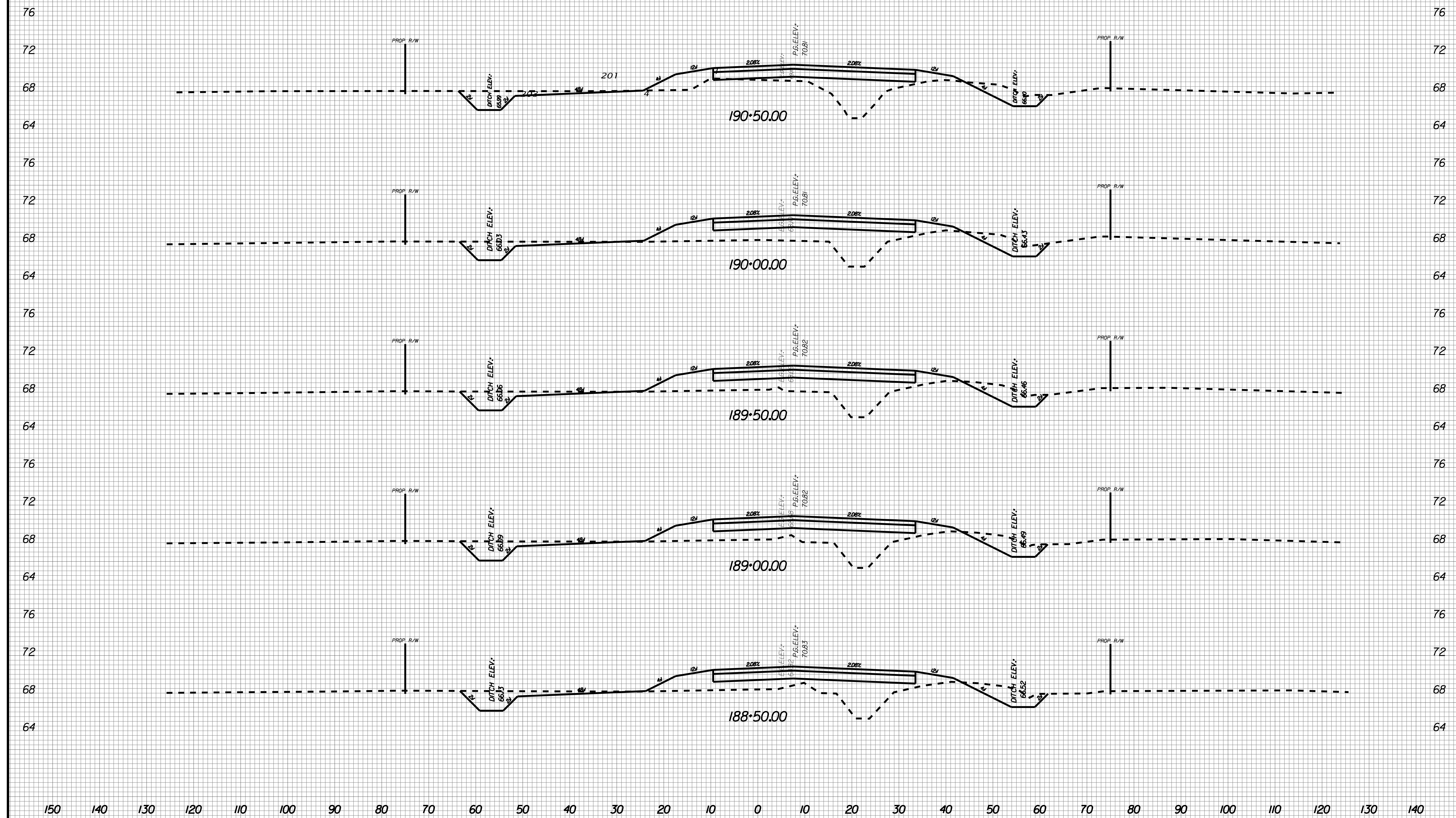
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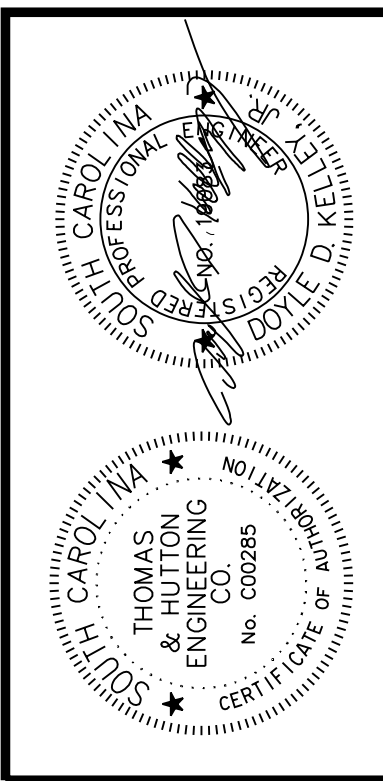
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X087





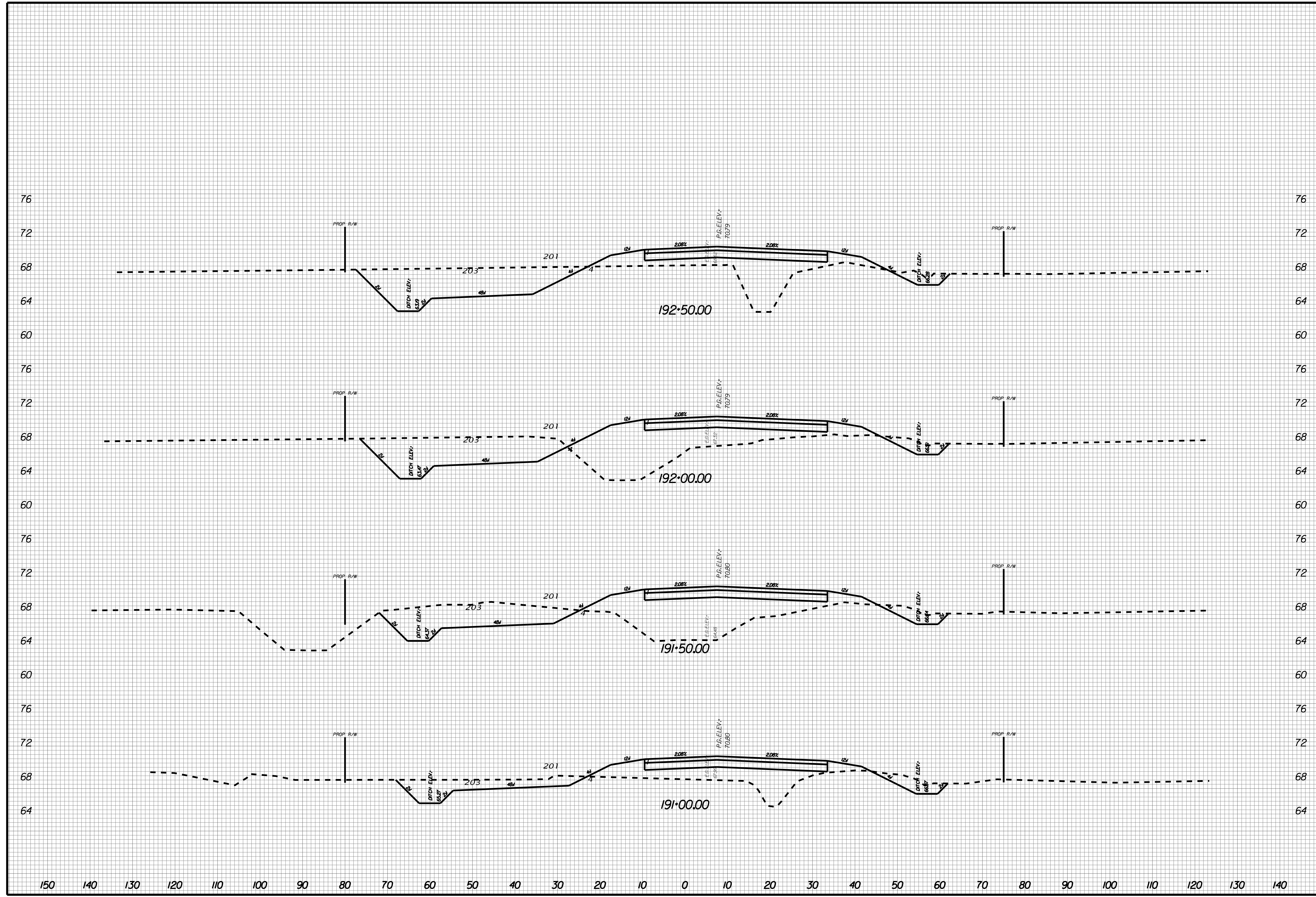
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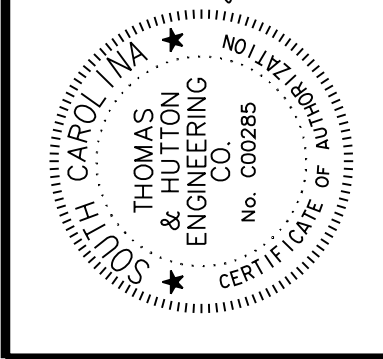
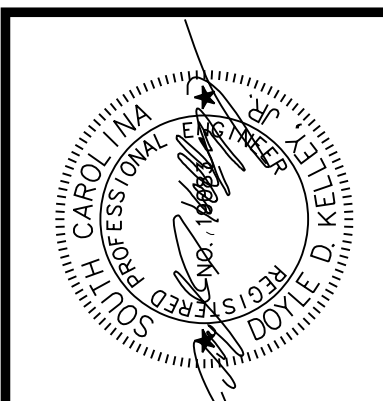
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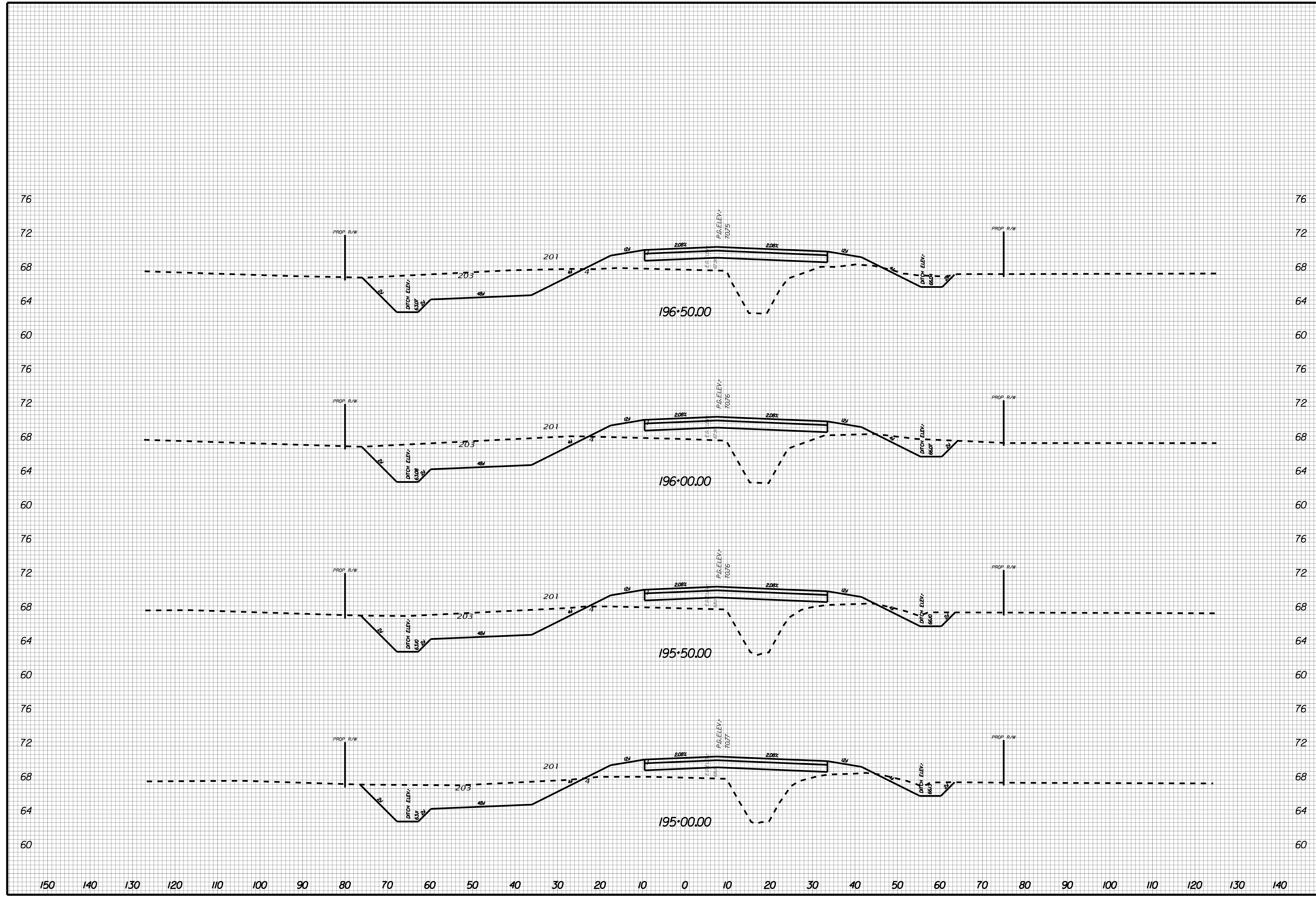
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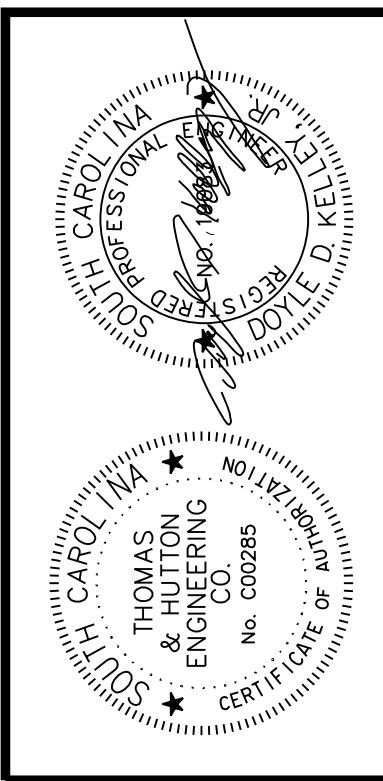
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X090





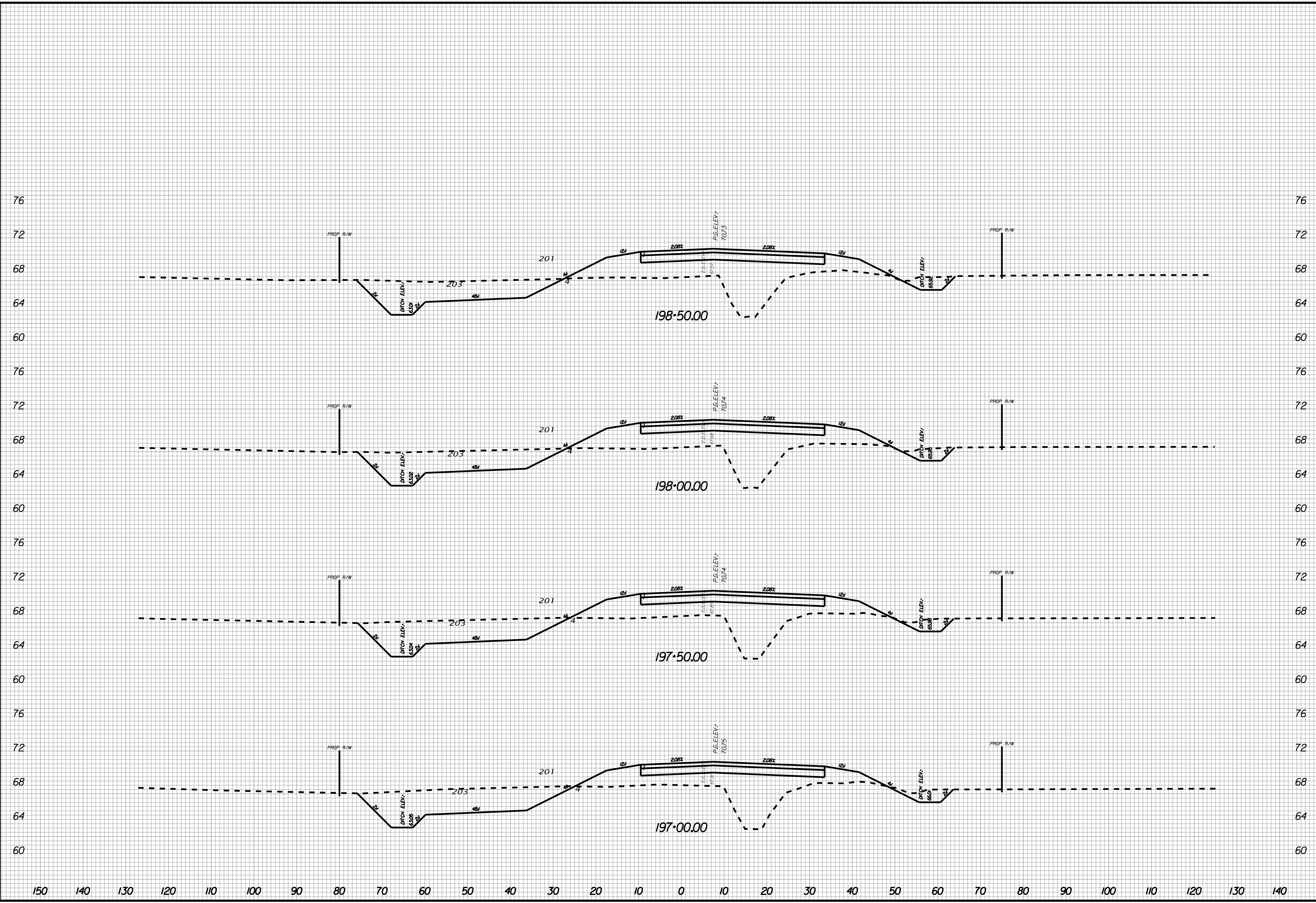
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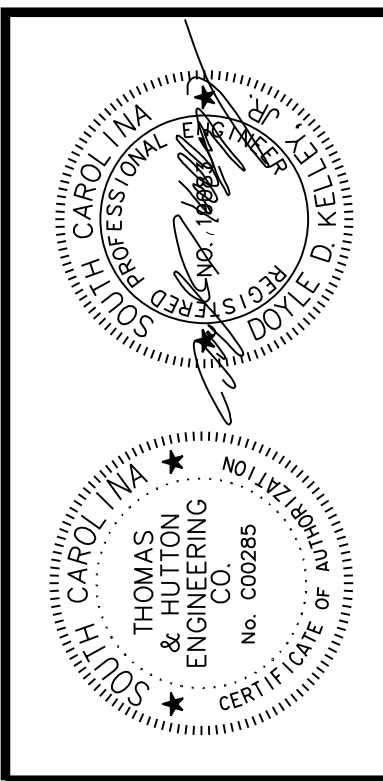
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X091





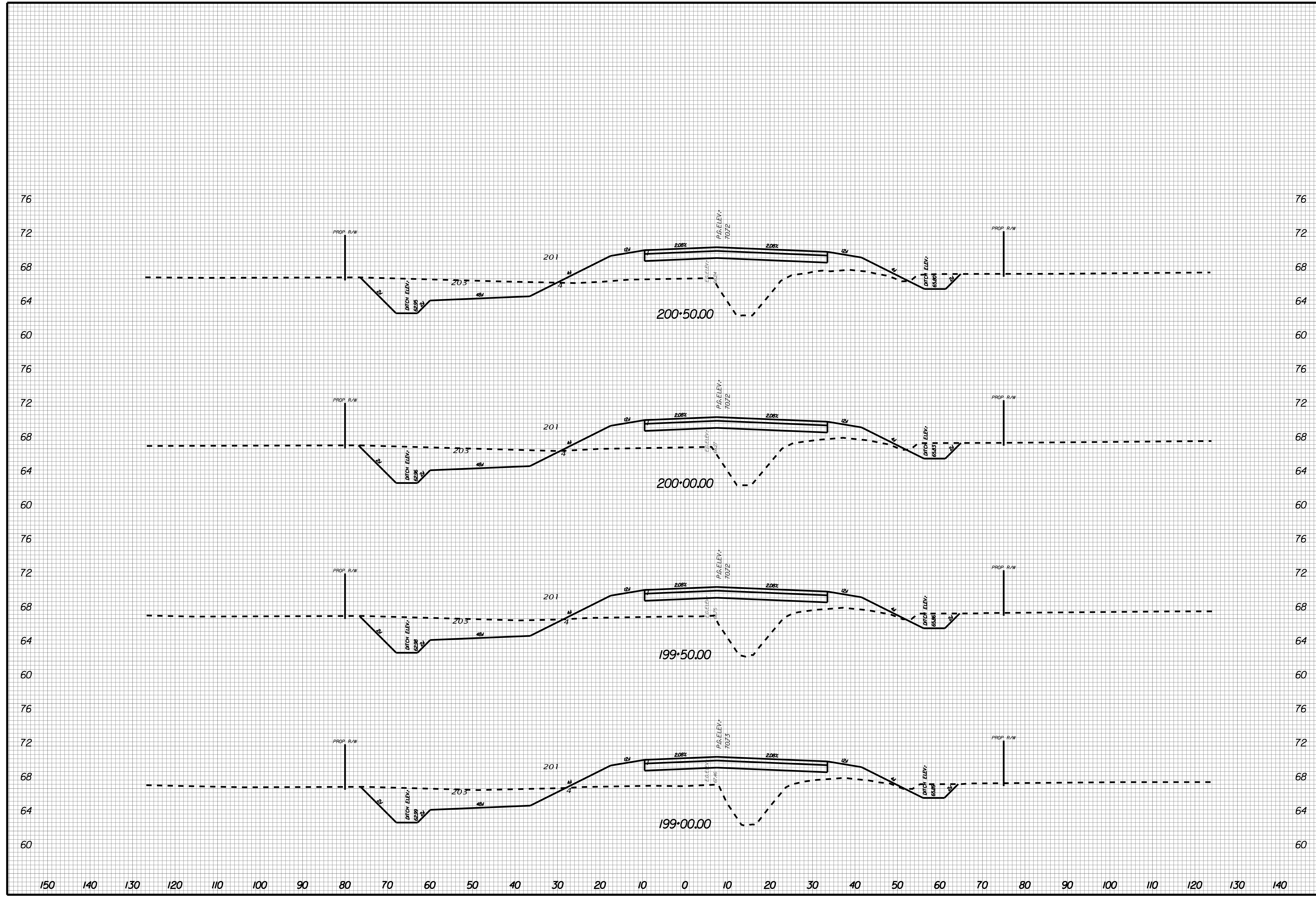
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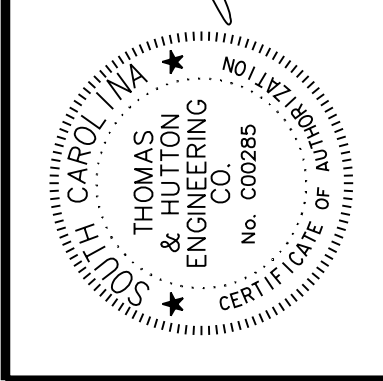
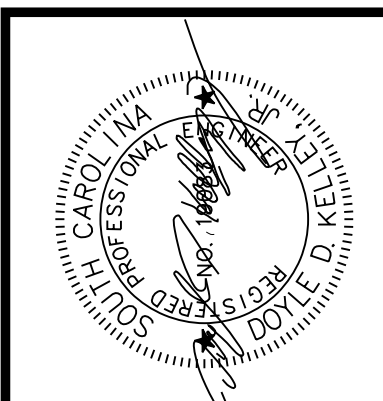
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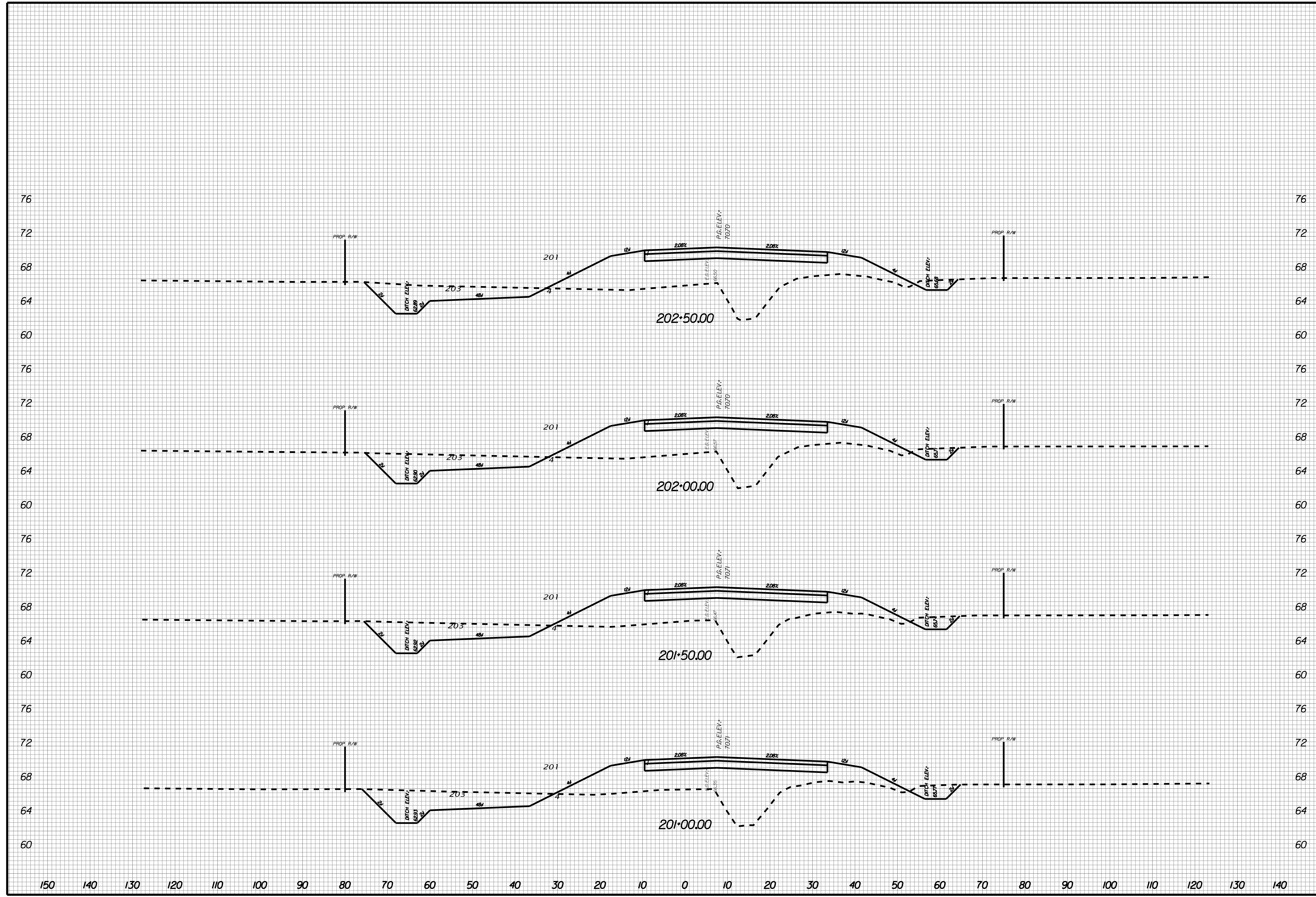
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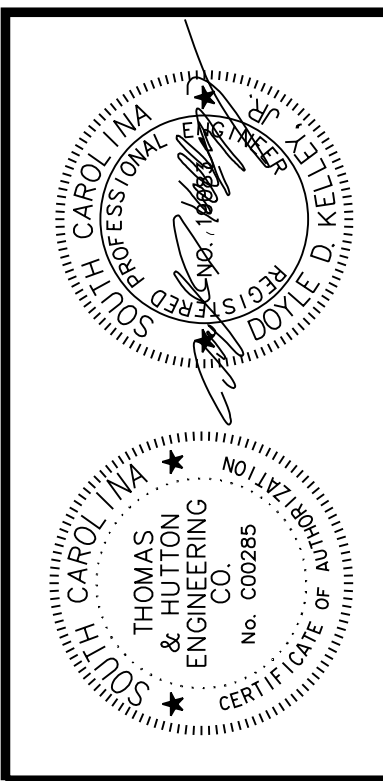
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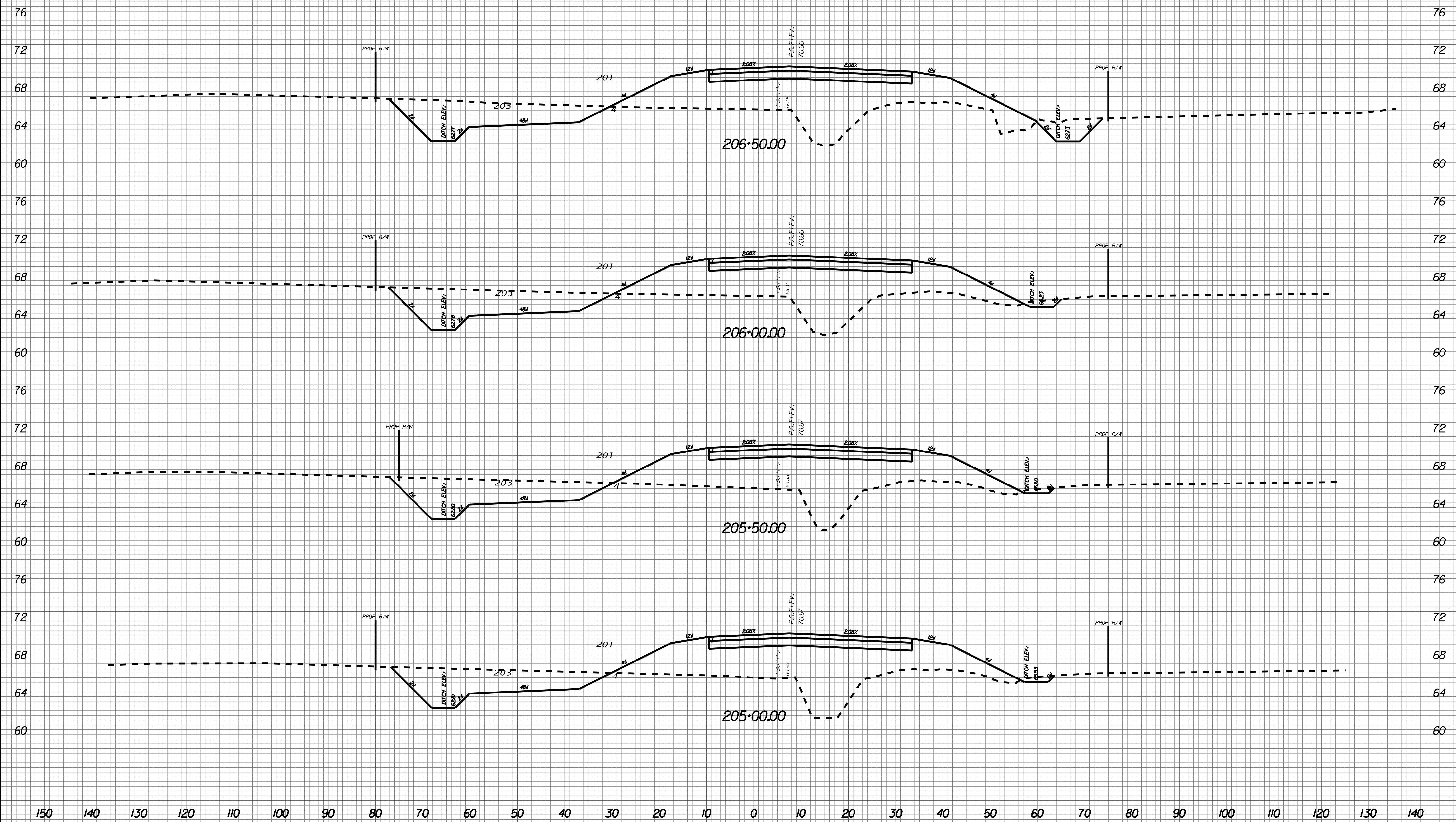
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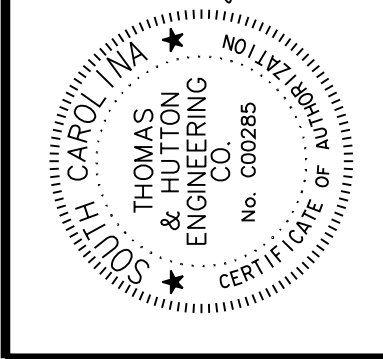
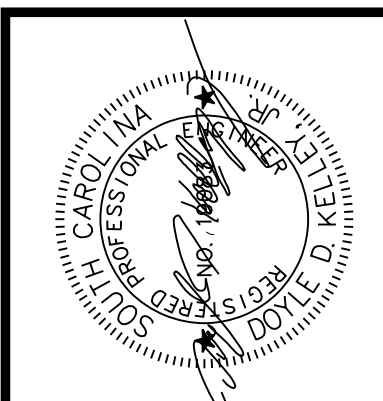
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X095





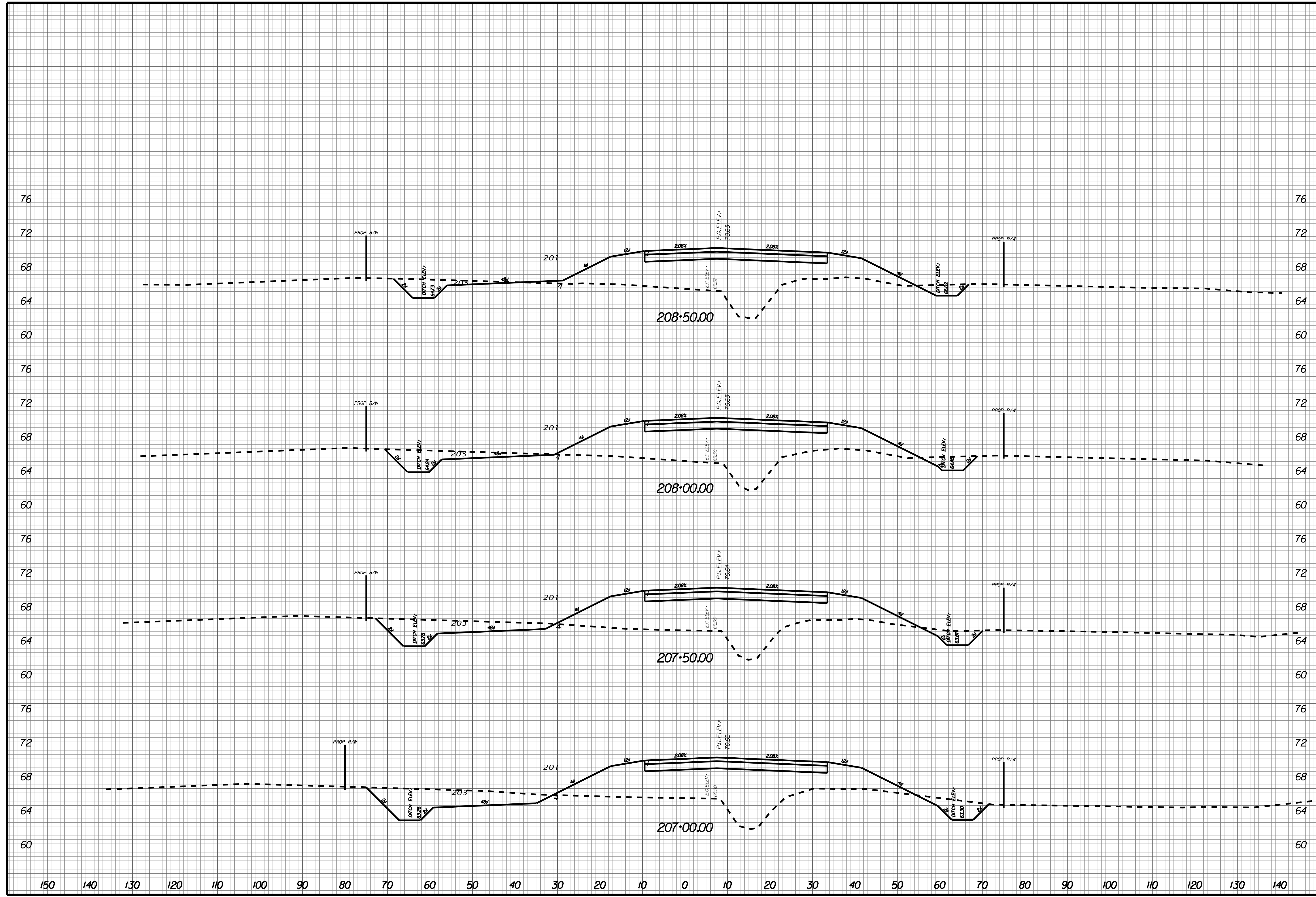
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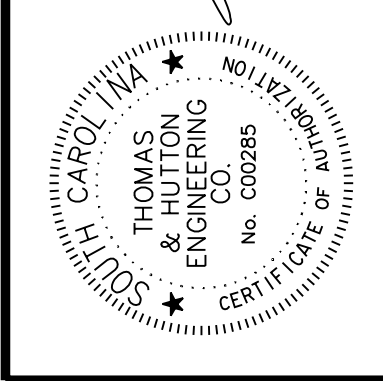
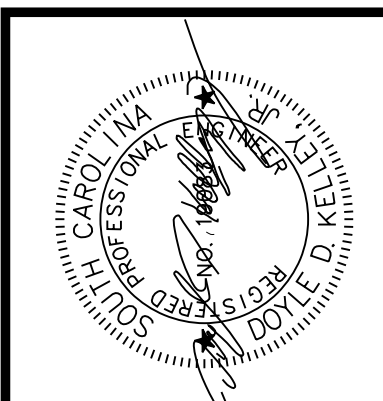
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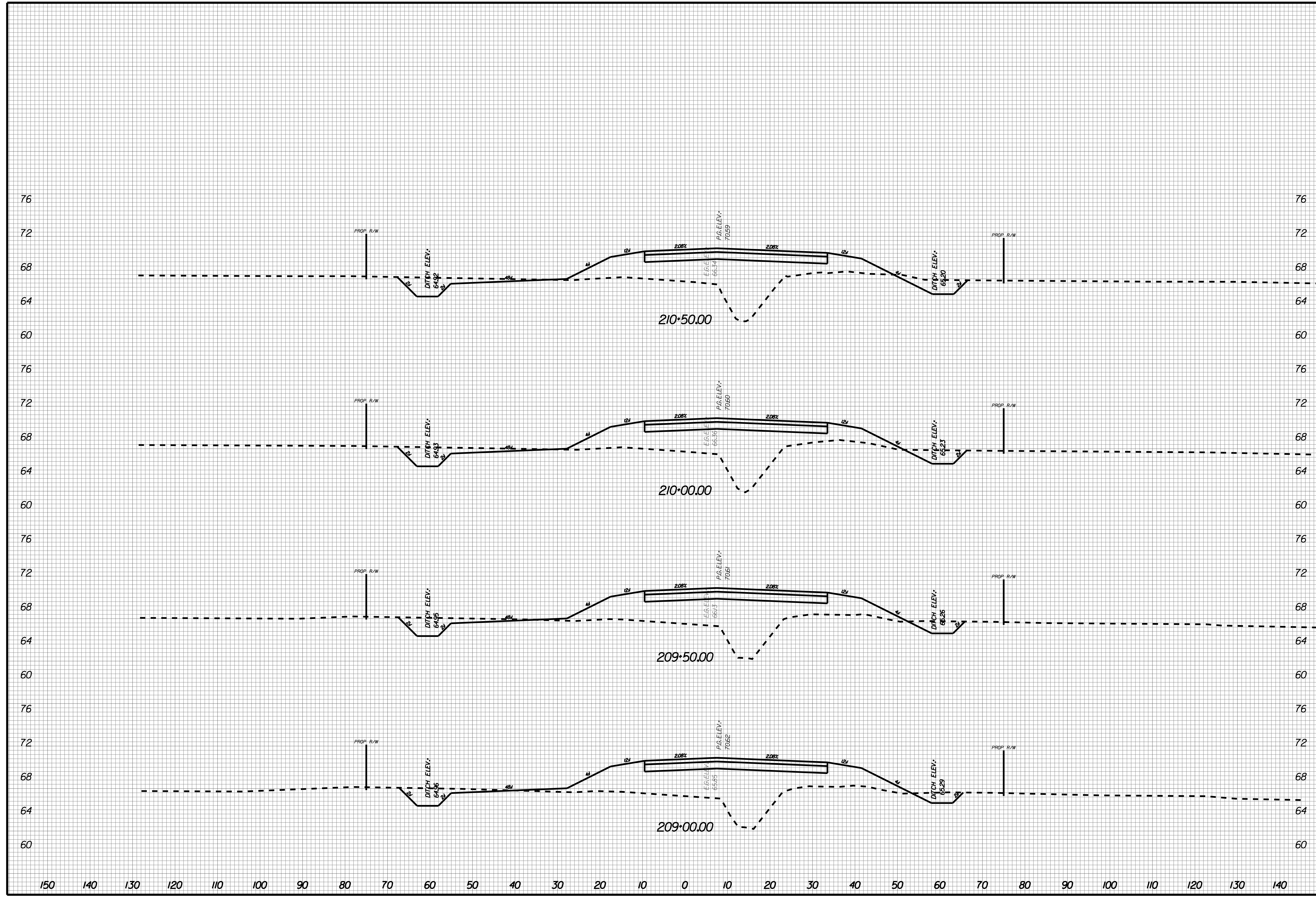
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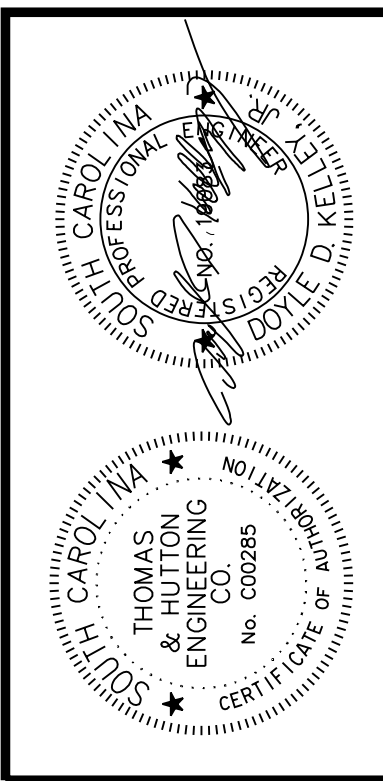
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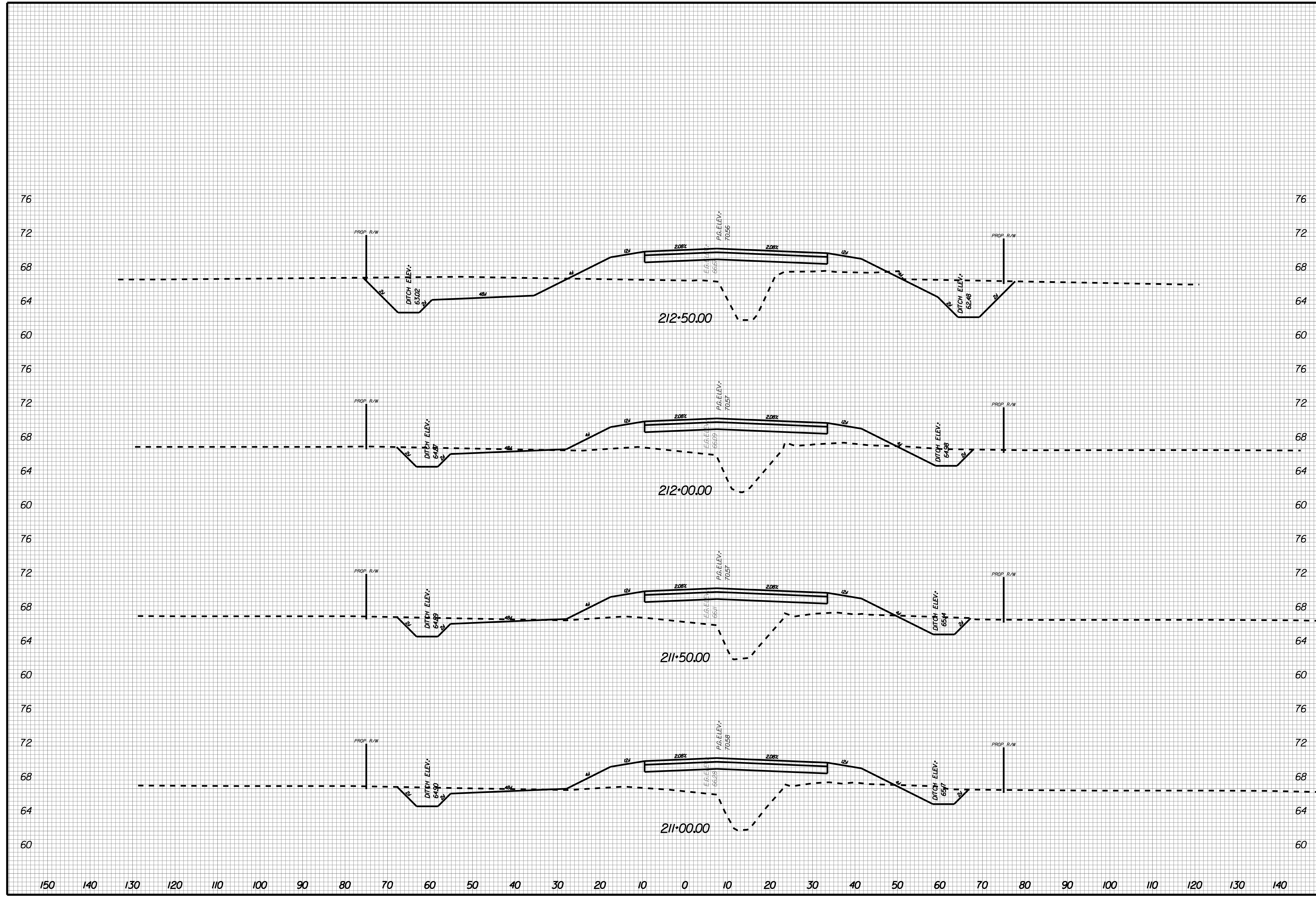
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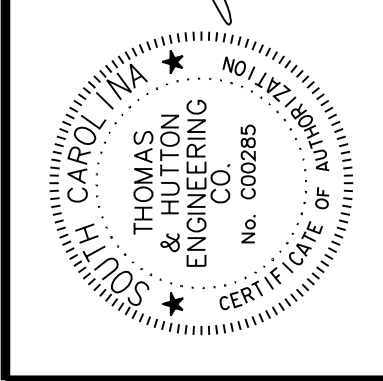
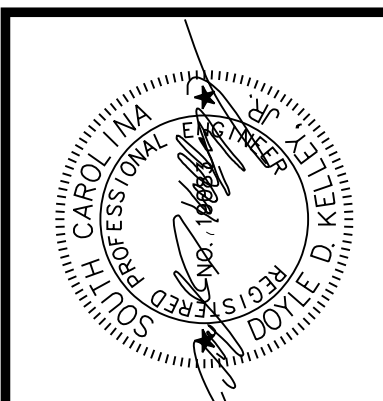
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X098





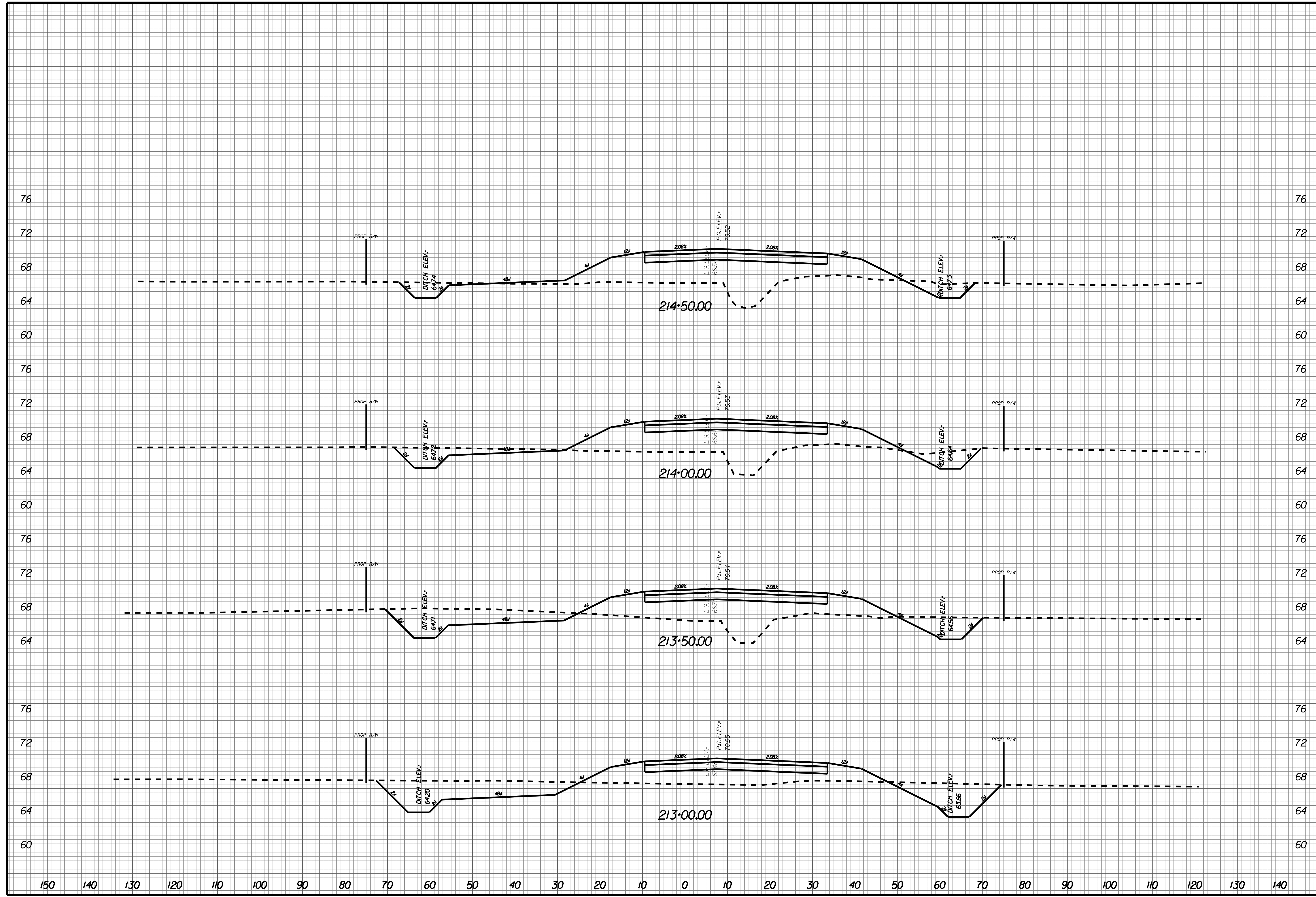
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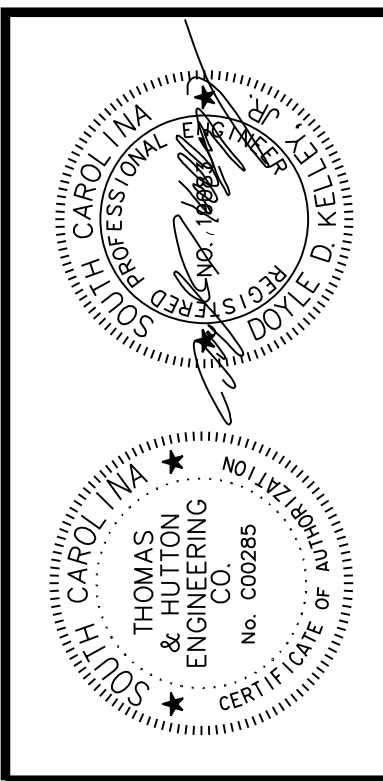
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X099





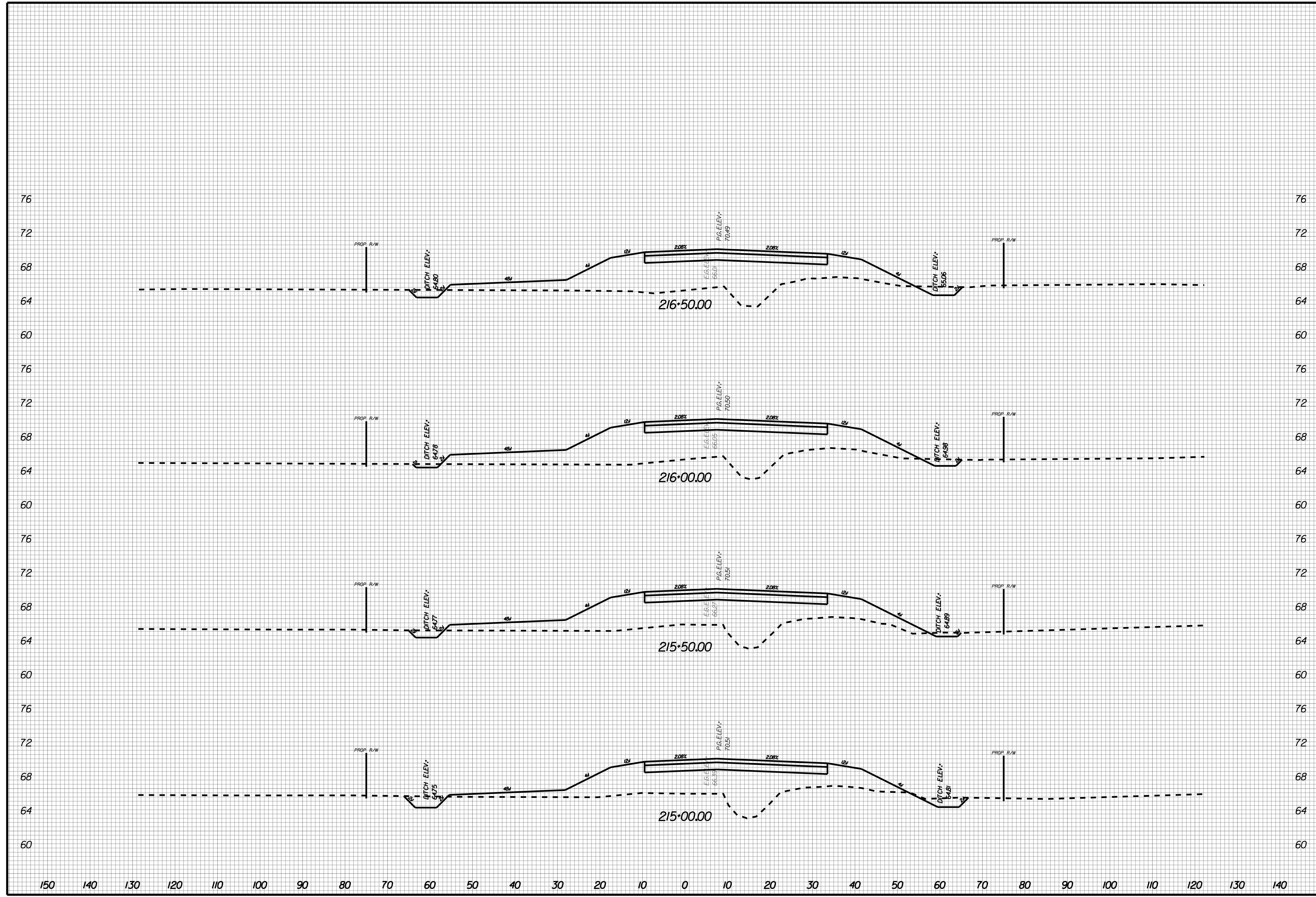
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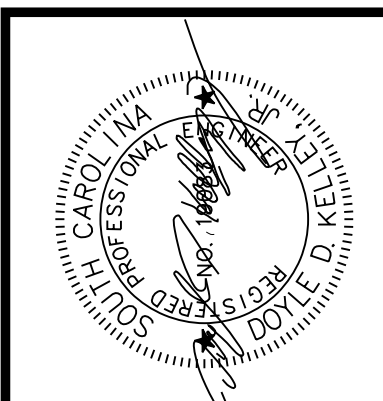
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X100





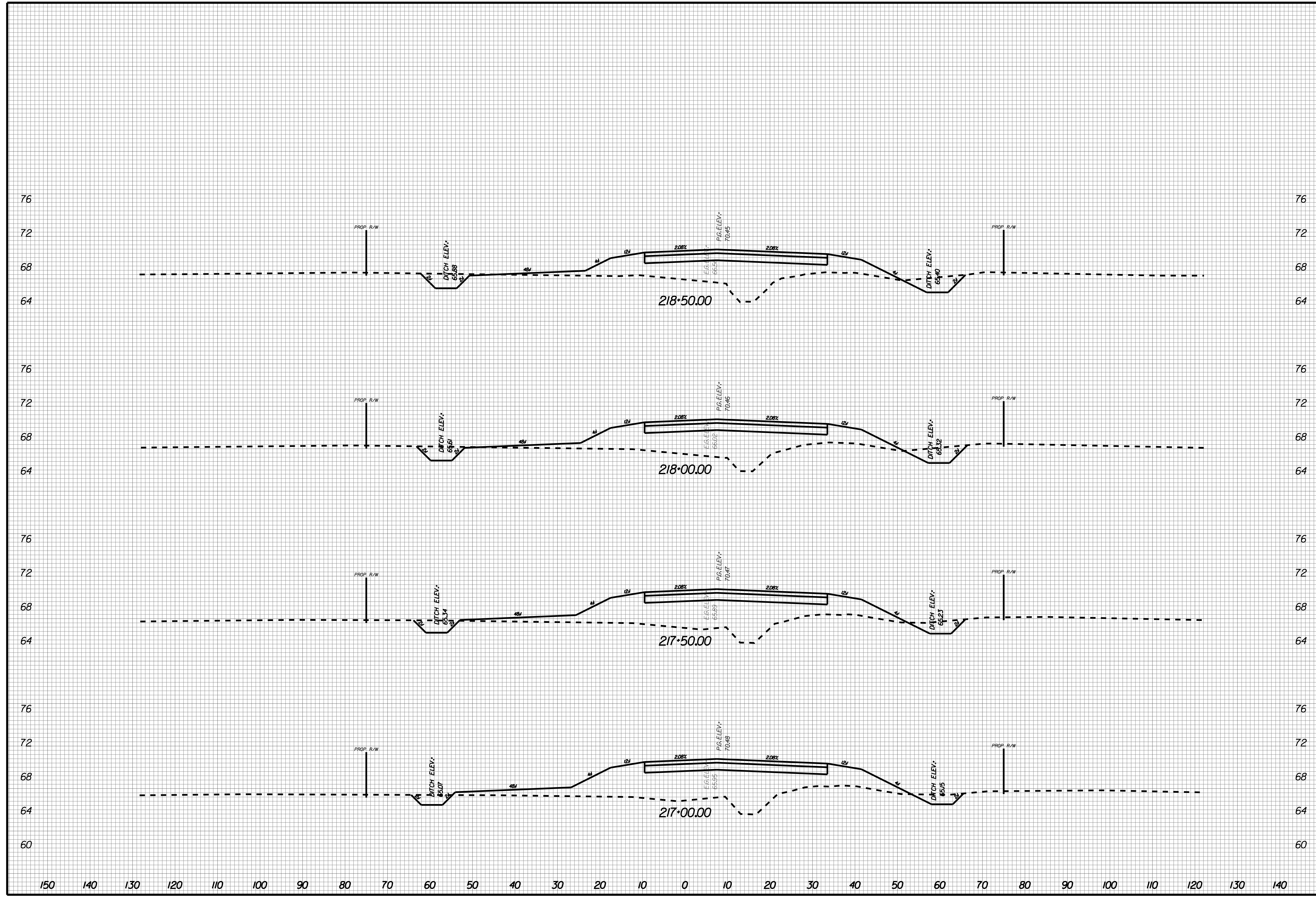
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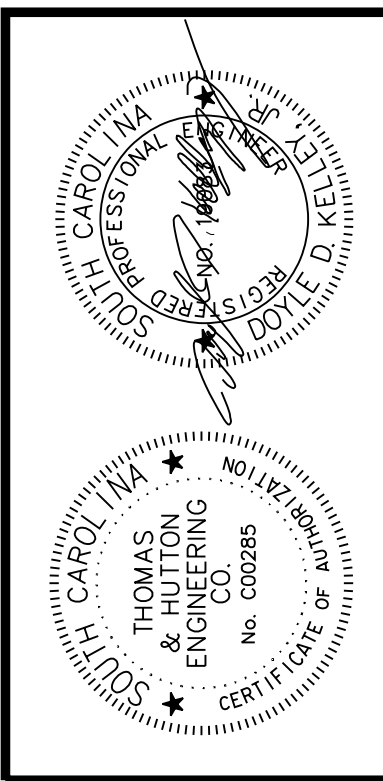
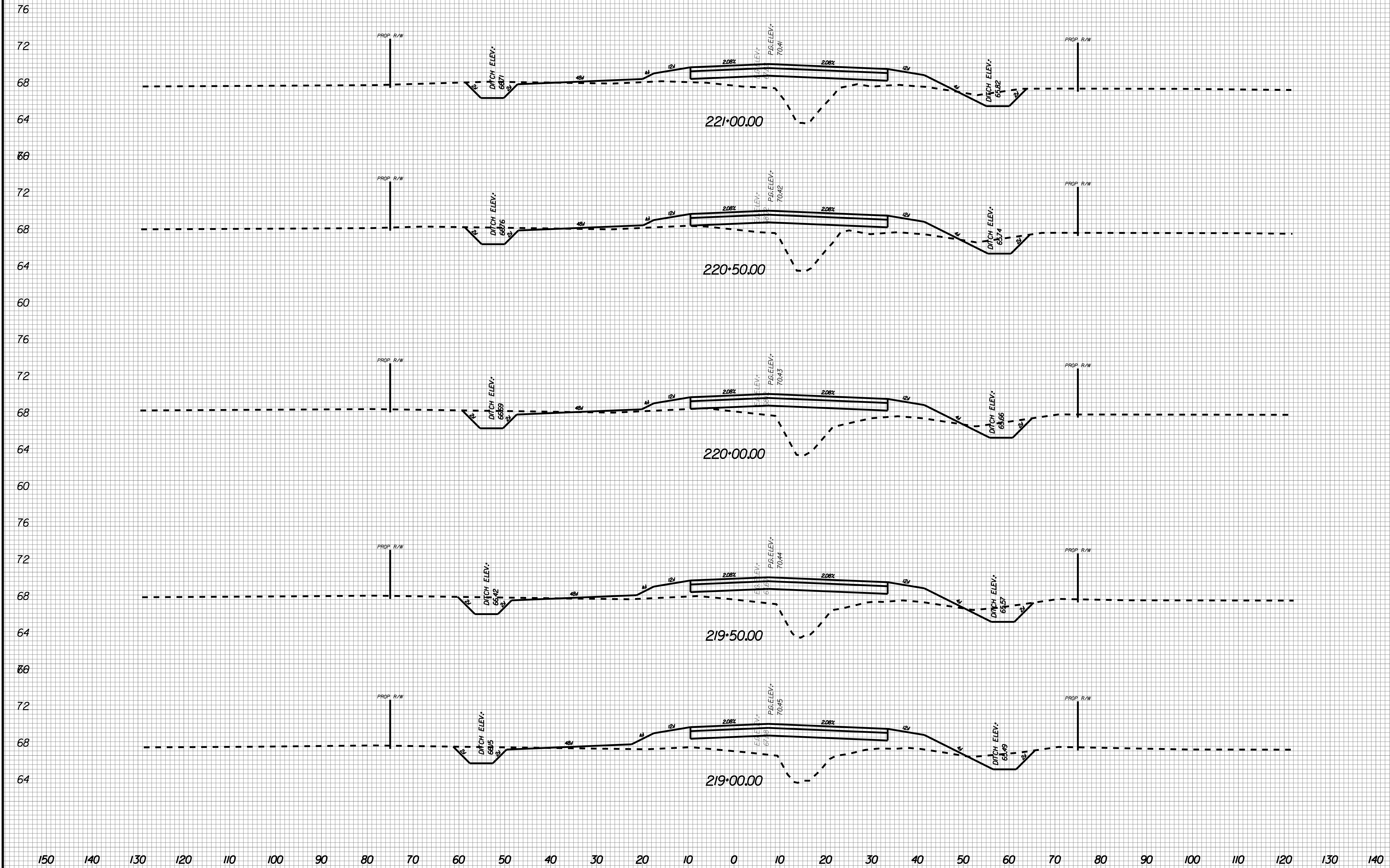
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X101





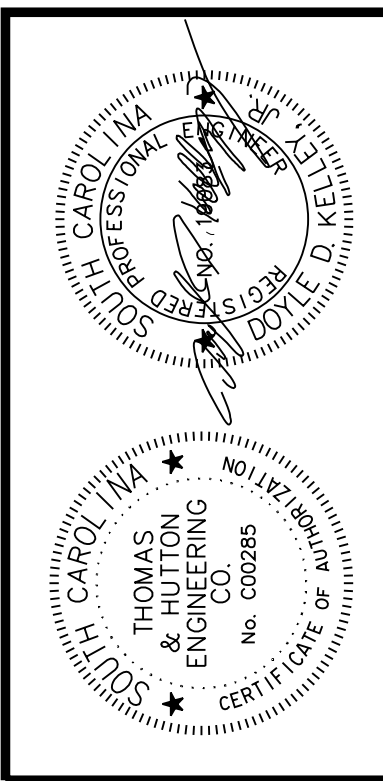
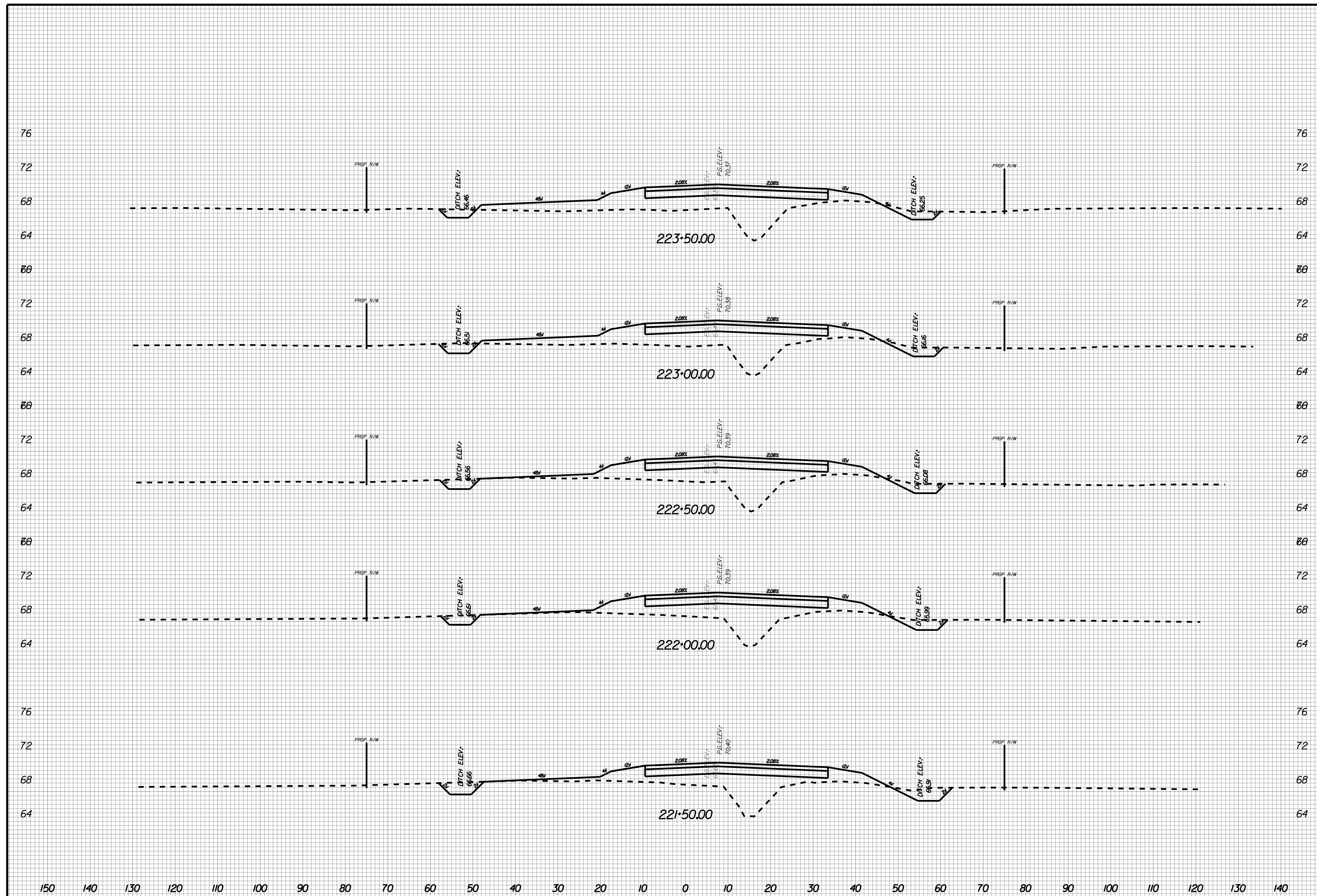
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X102



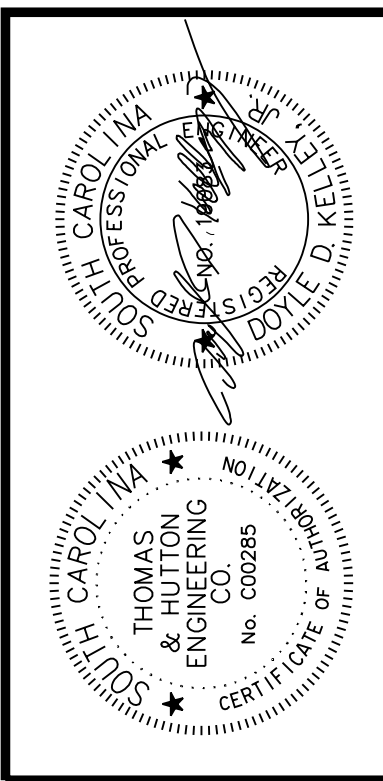
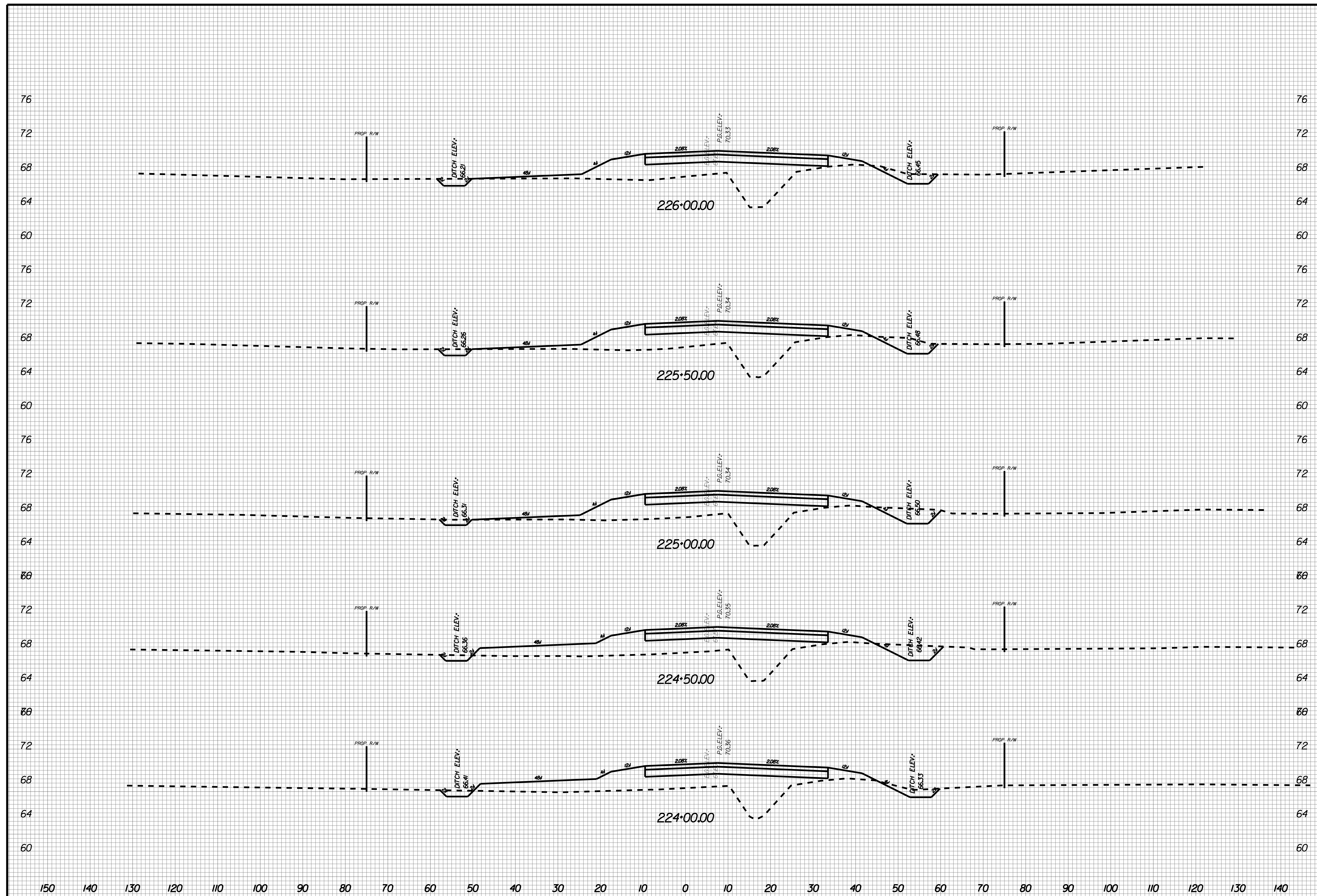
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X103



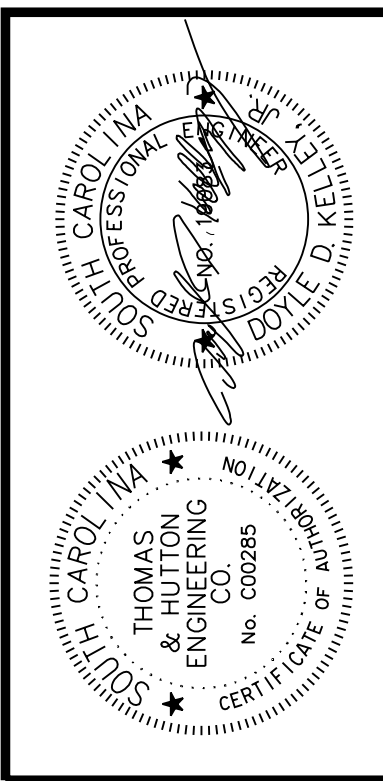
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X104



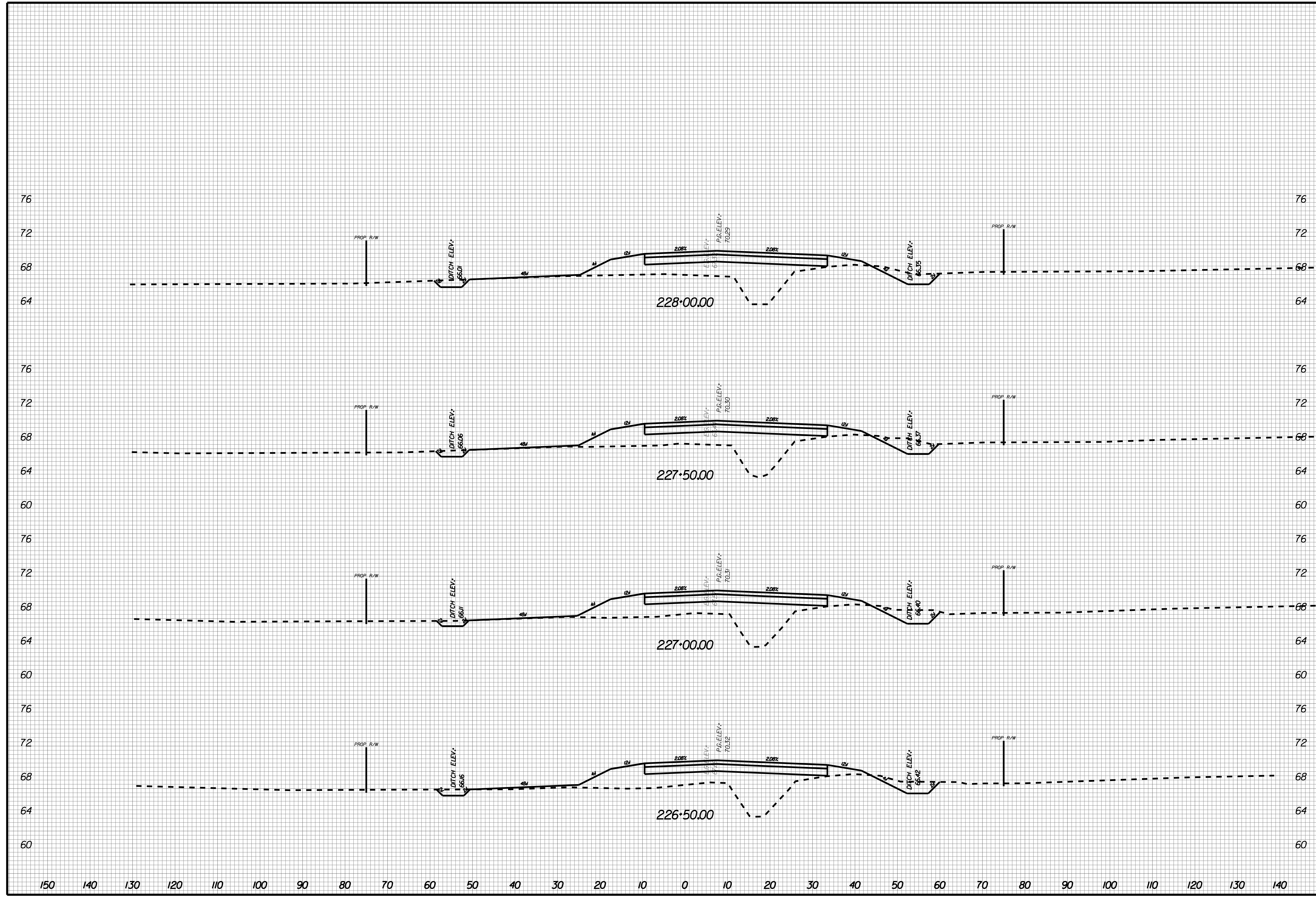
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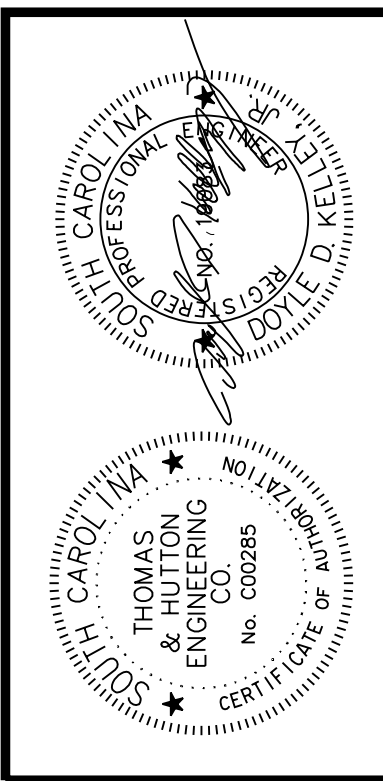
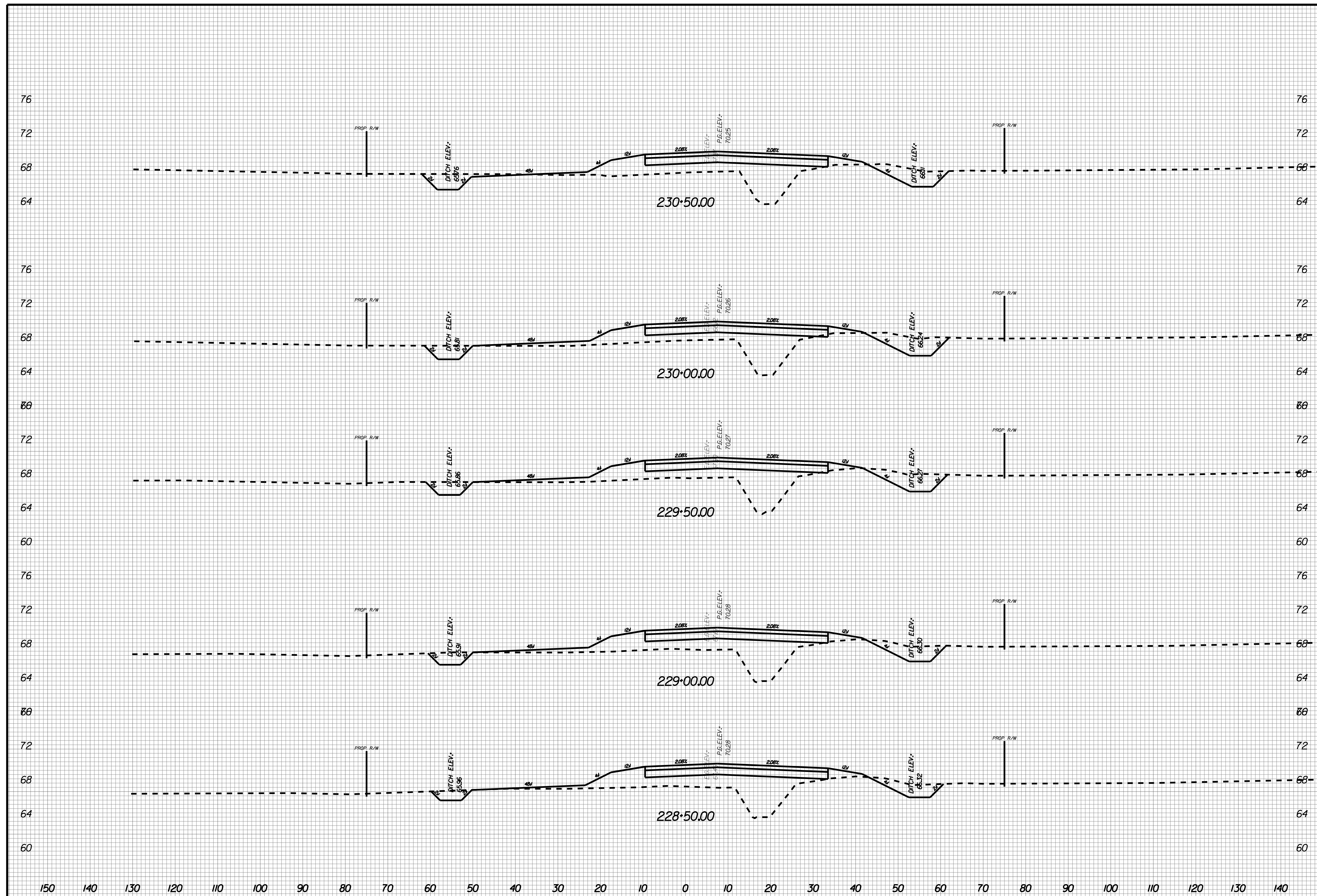
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X105





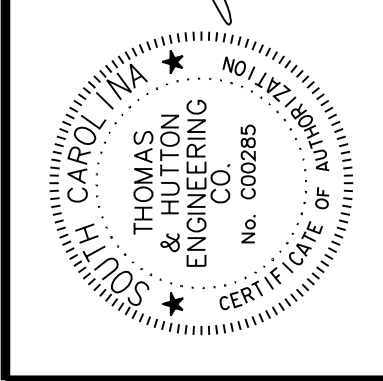
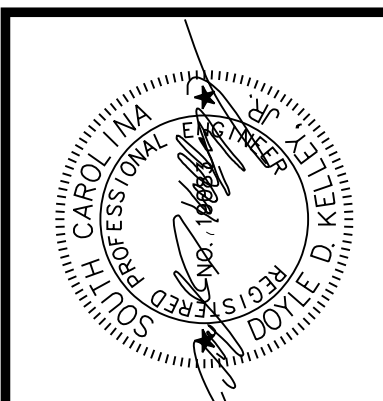
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X106



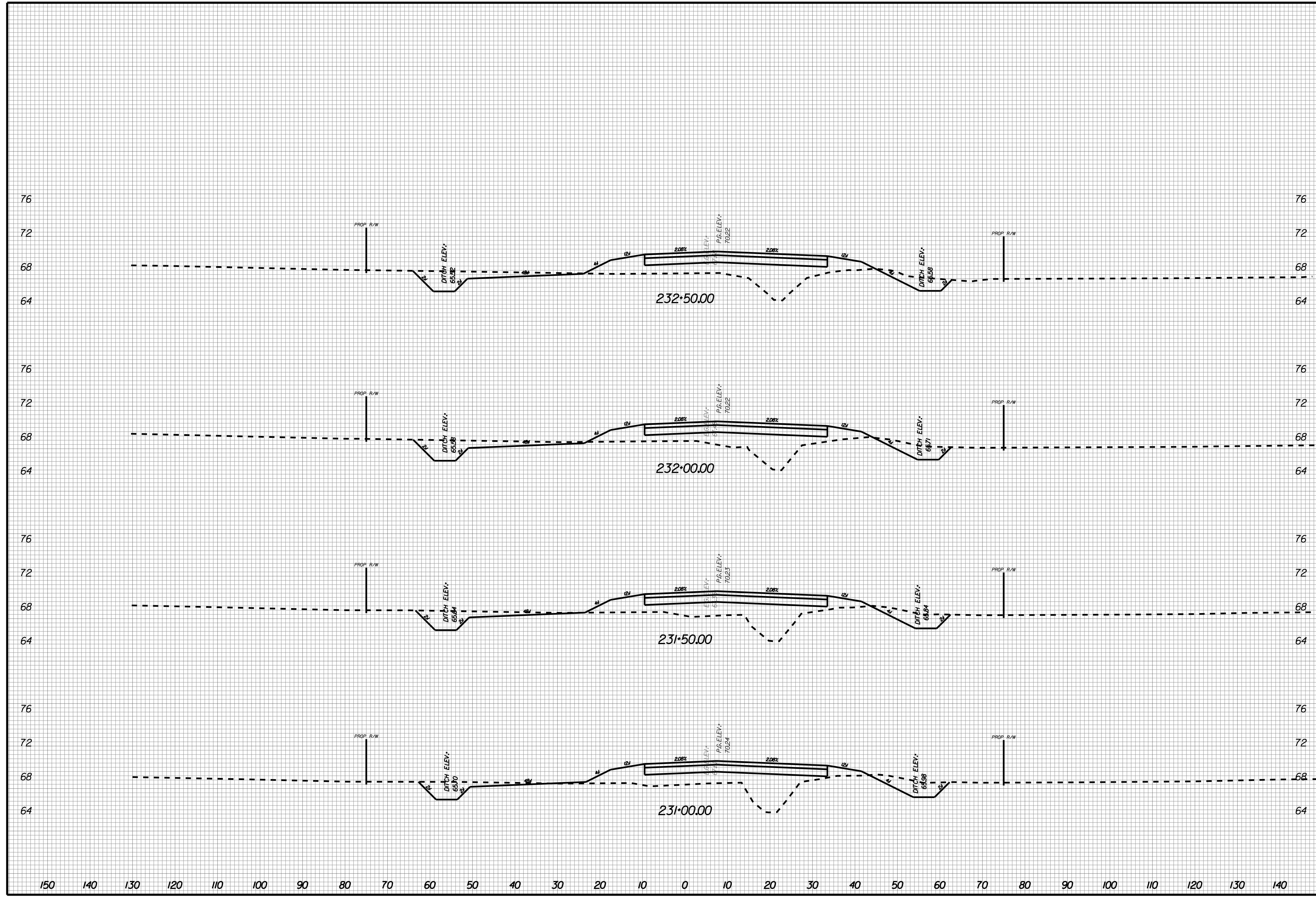
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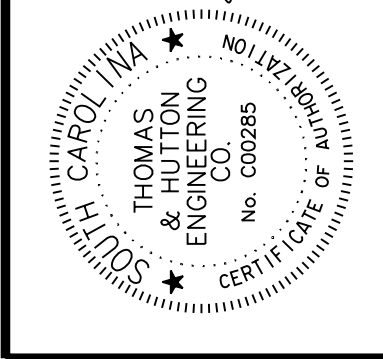
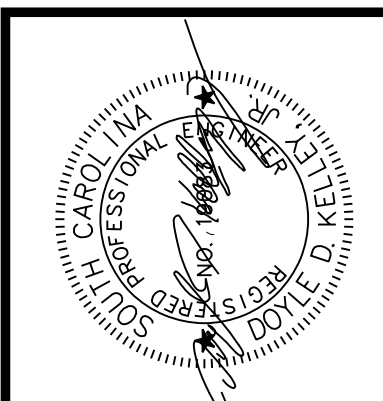
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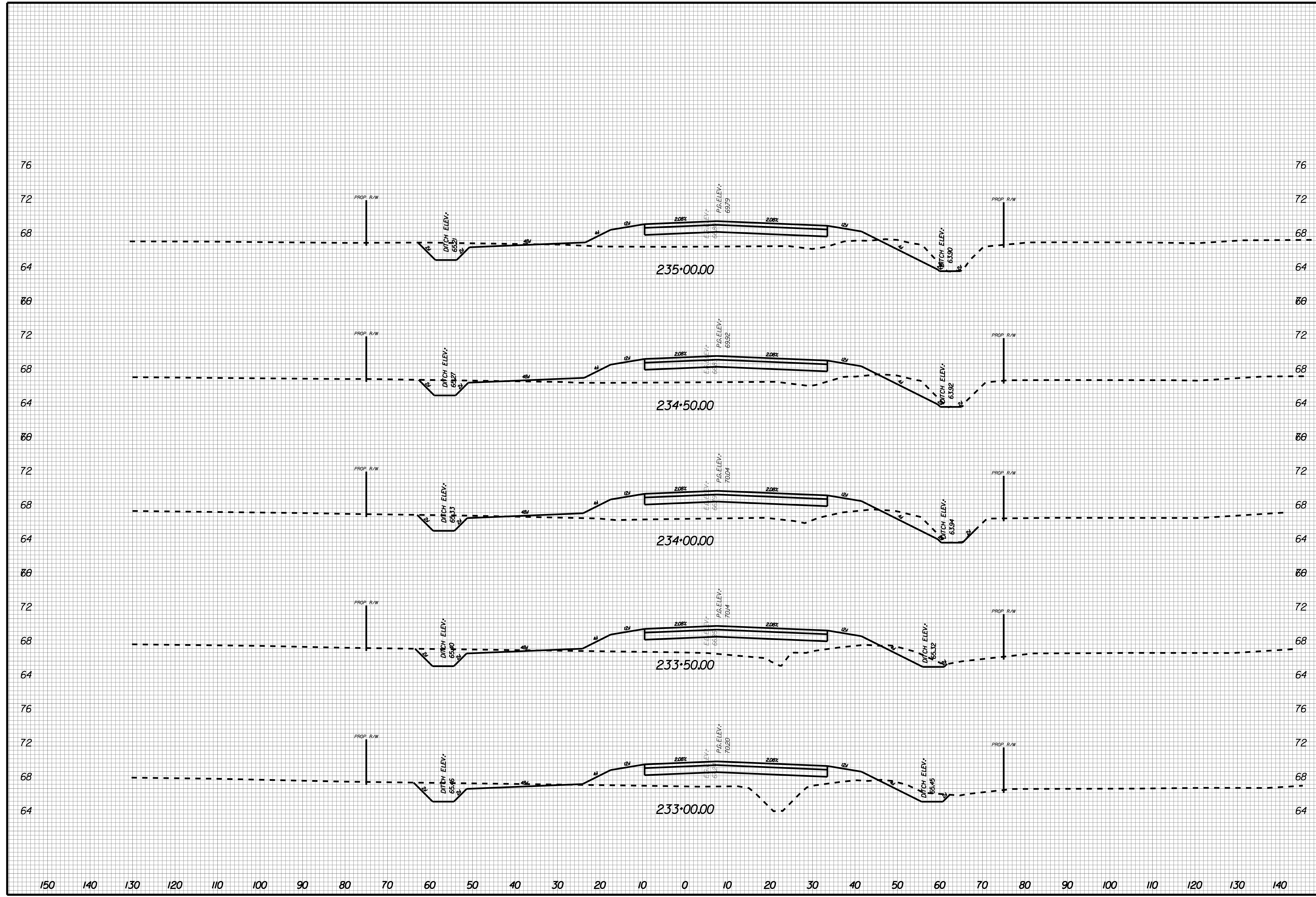
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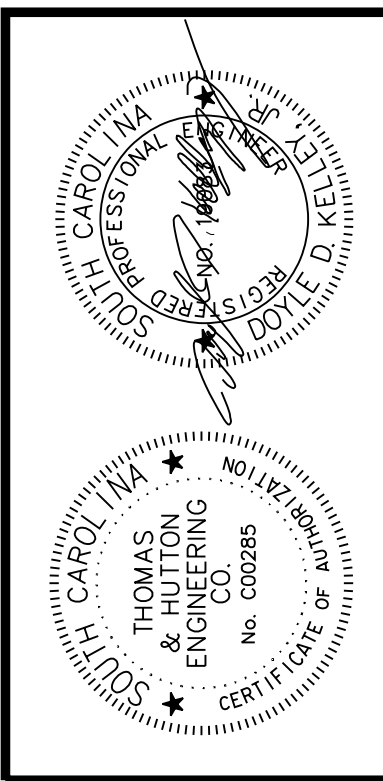
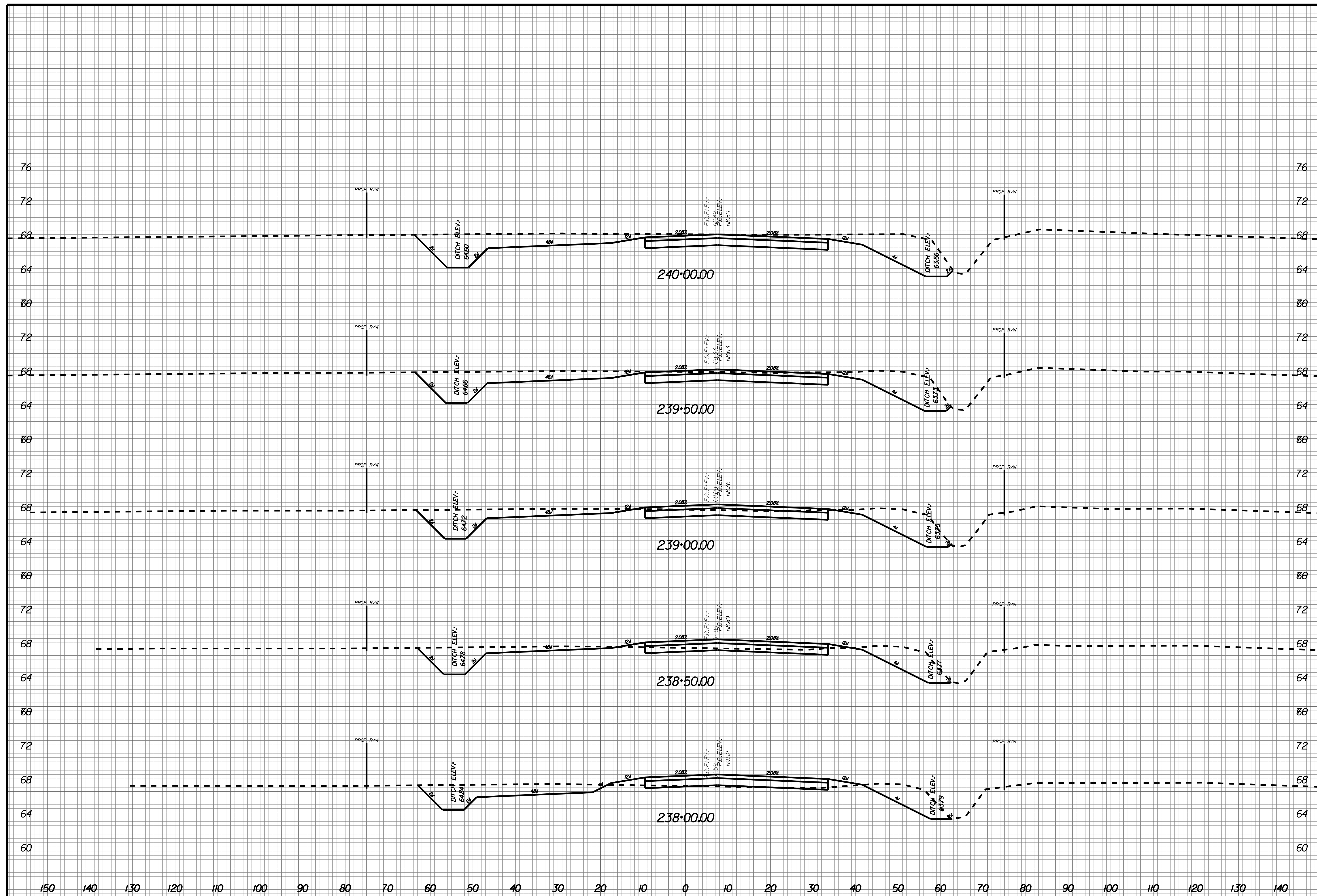
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 SCALE: AS NOTED

X108





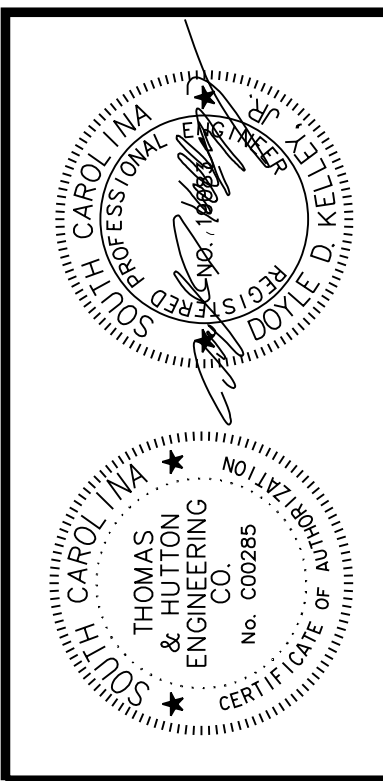
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 CROSS SECTIONS

JOB NO: J-25644.1005
 DATE: _____
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X110



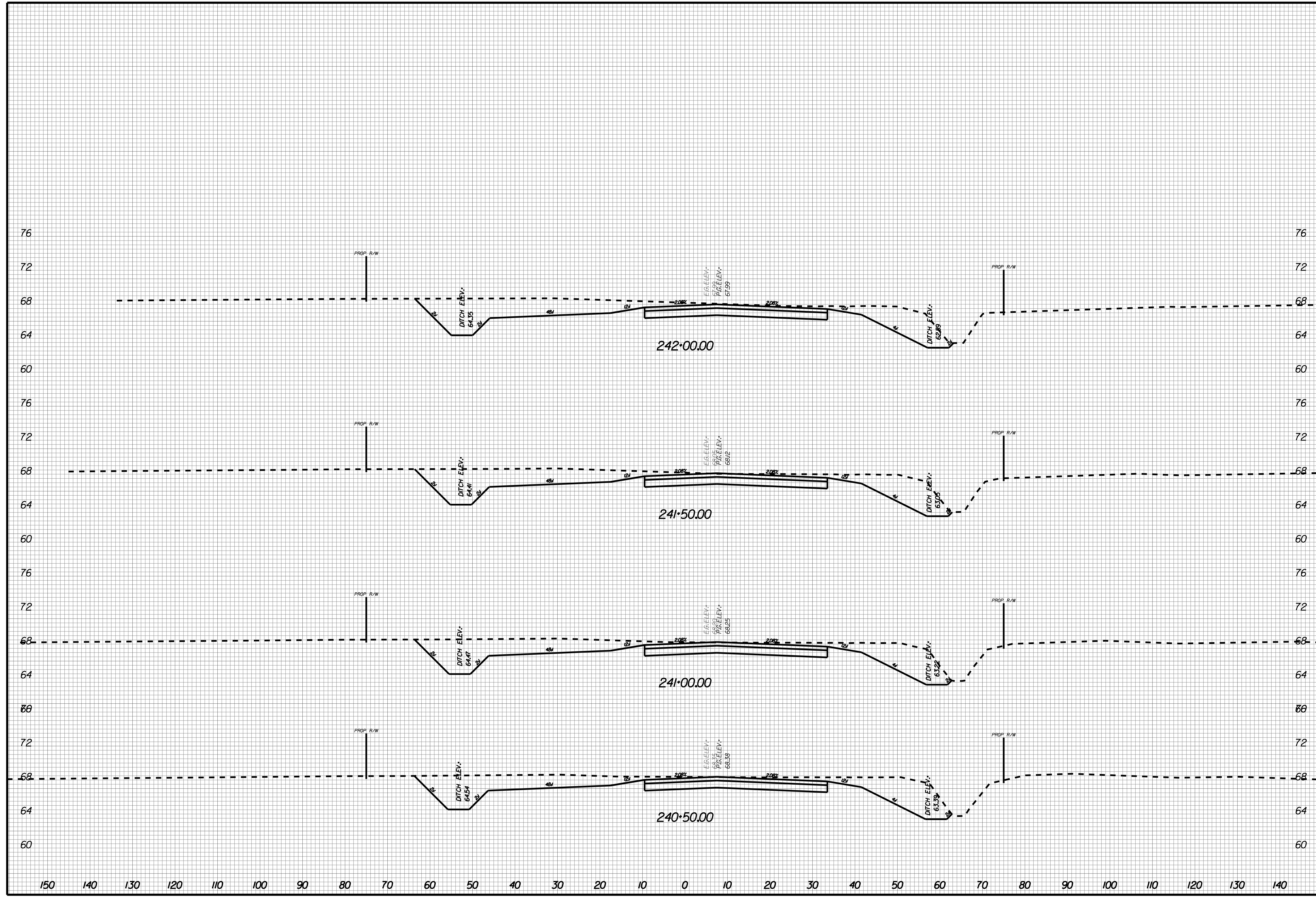
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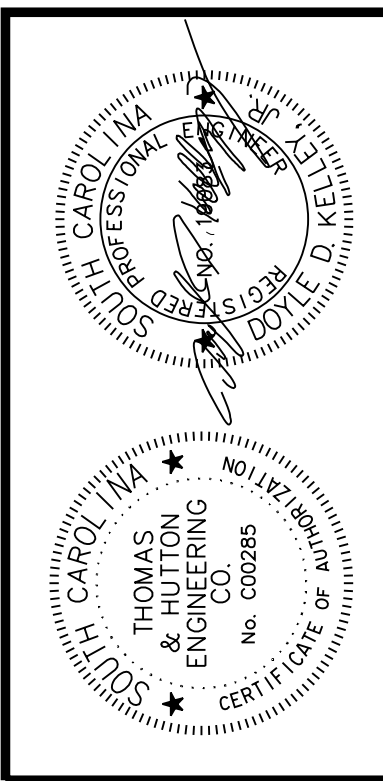
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 CROSS SECTIONS

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 SCALE: AS NOTED

X111





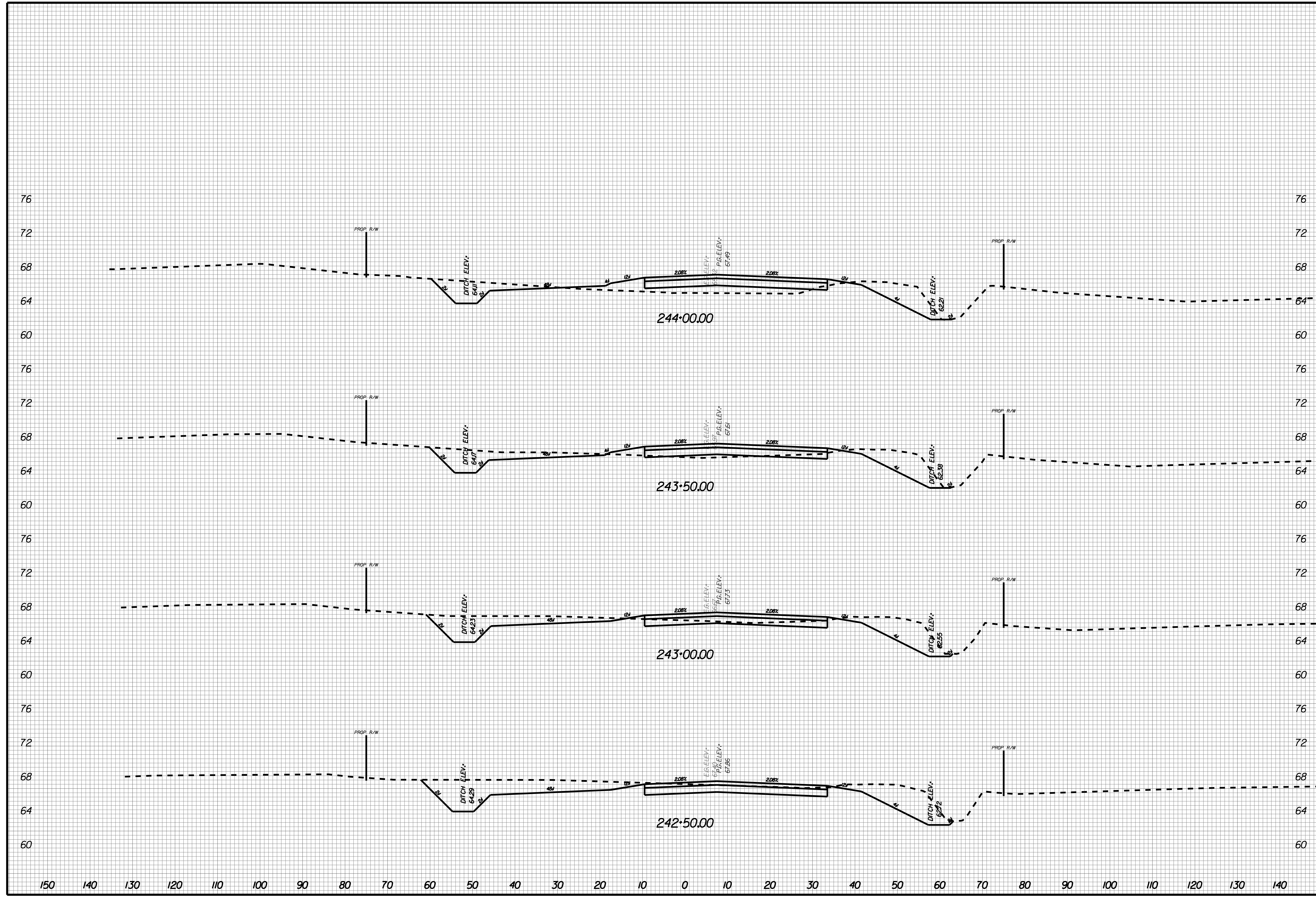
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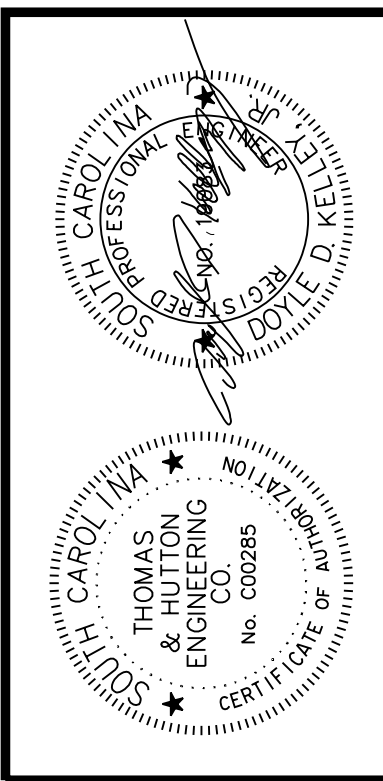
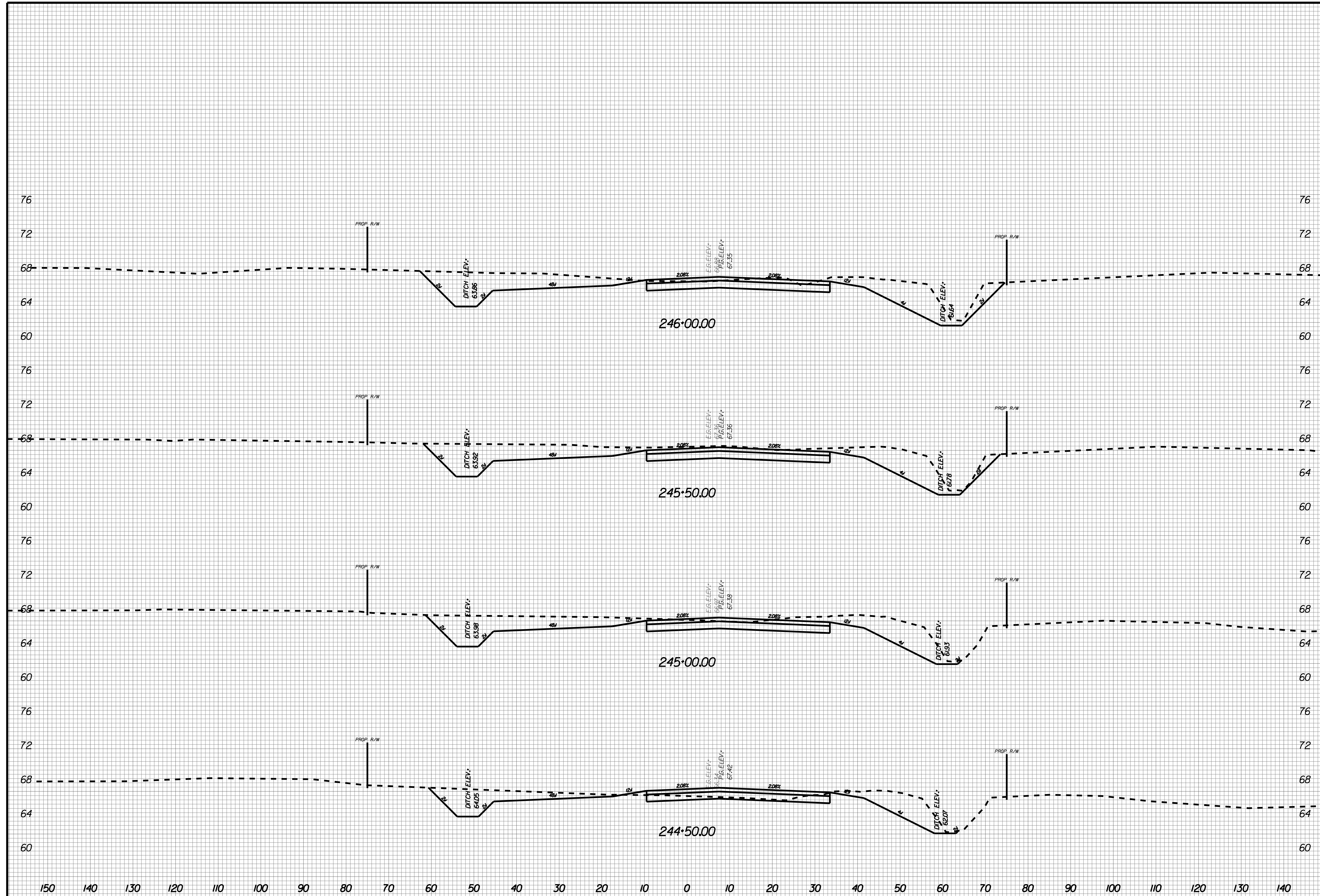
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 SCALE: AS NOTED

X112





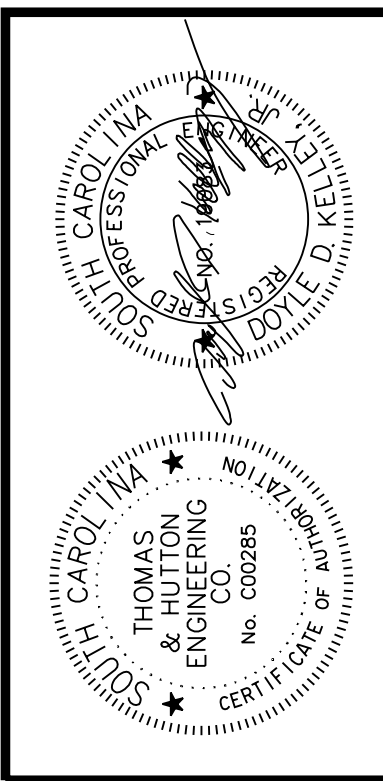
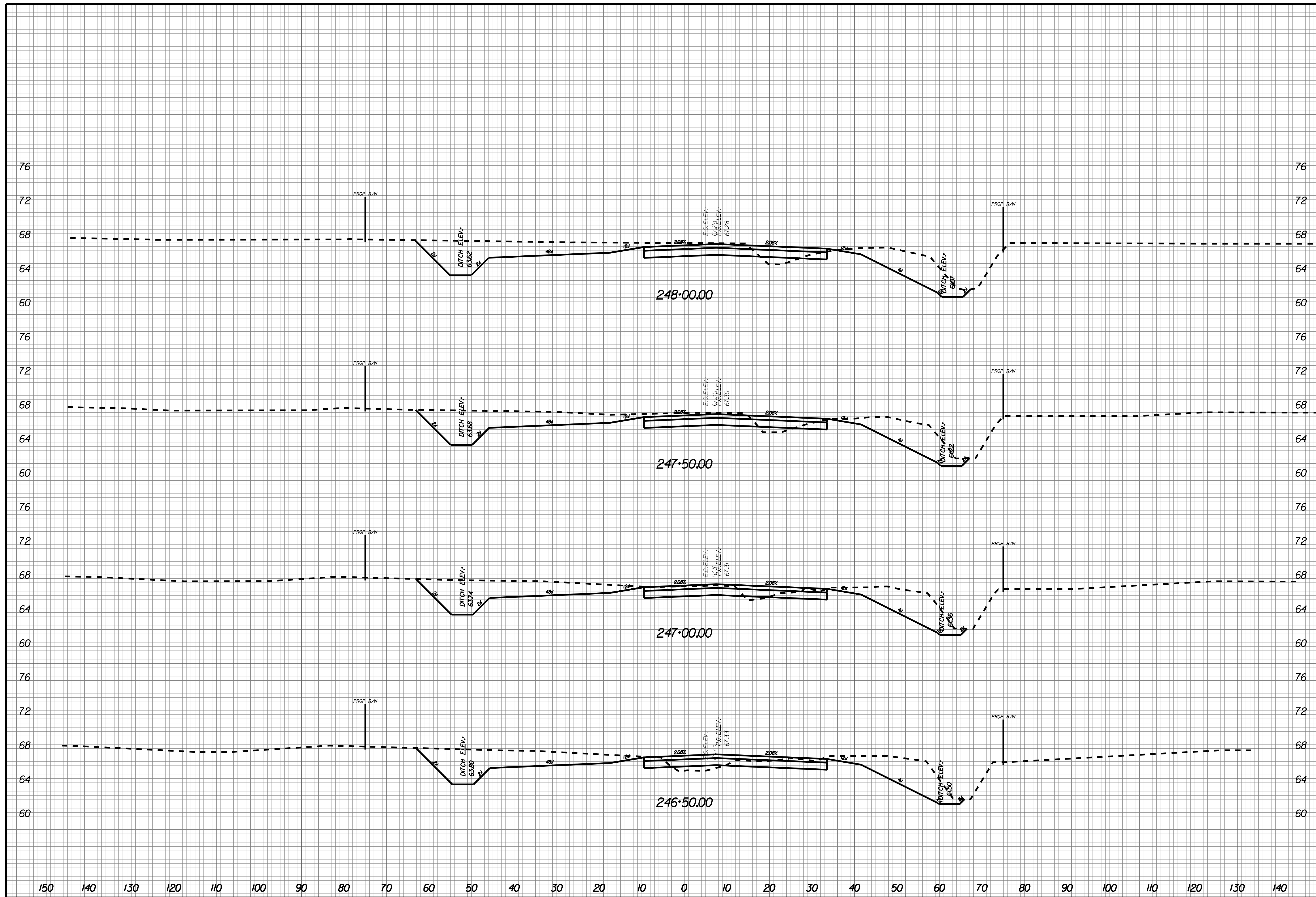
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 SCALE: AS NOTED

X113



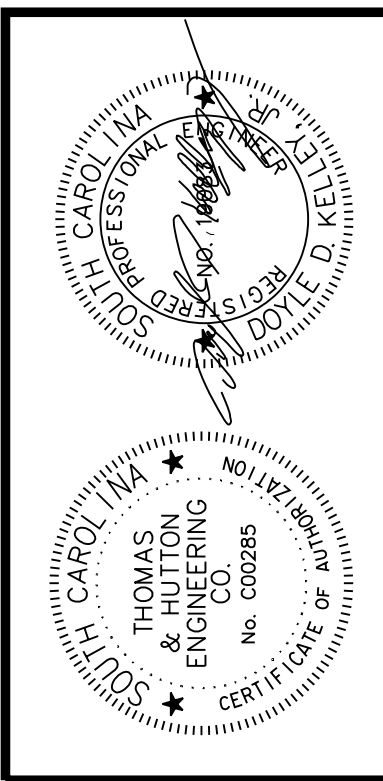
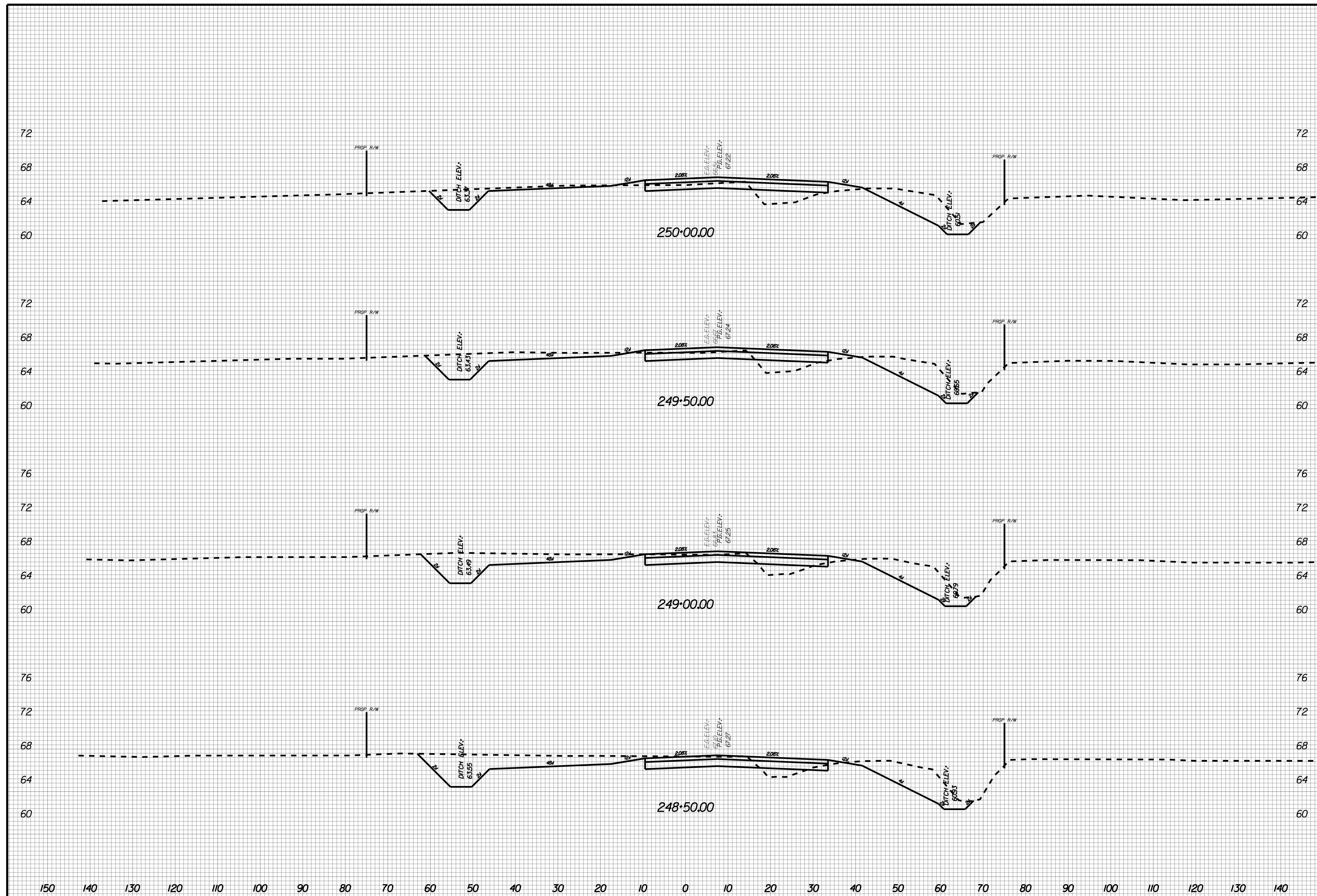
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X114



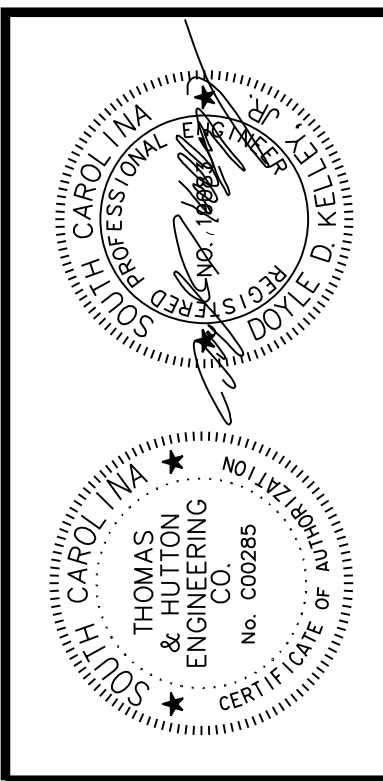
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 SCALE: AS NOTED

X115



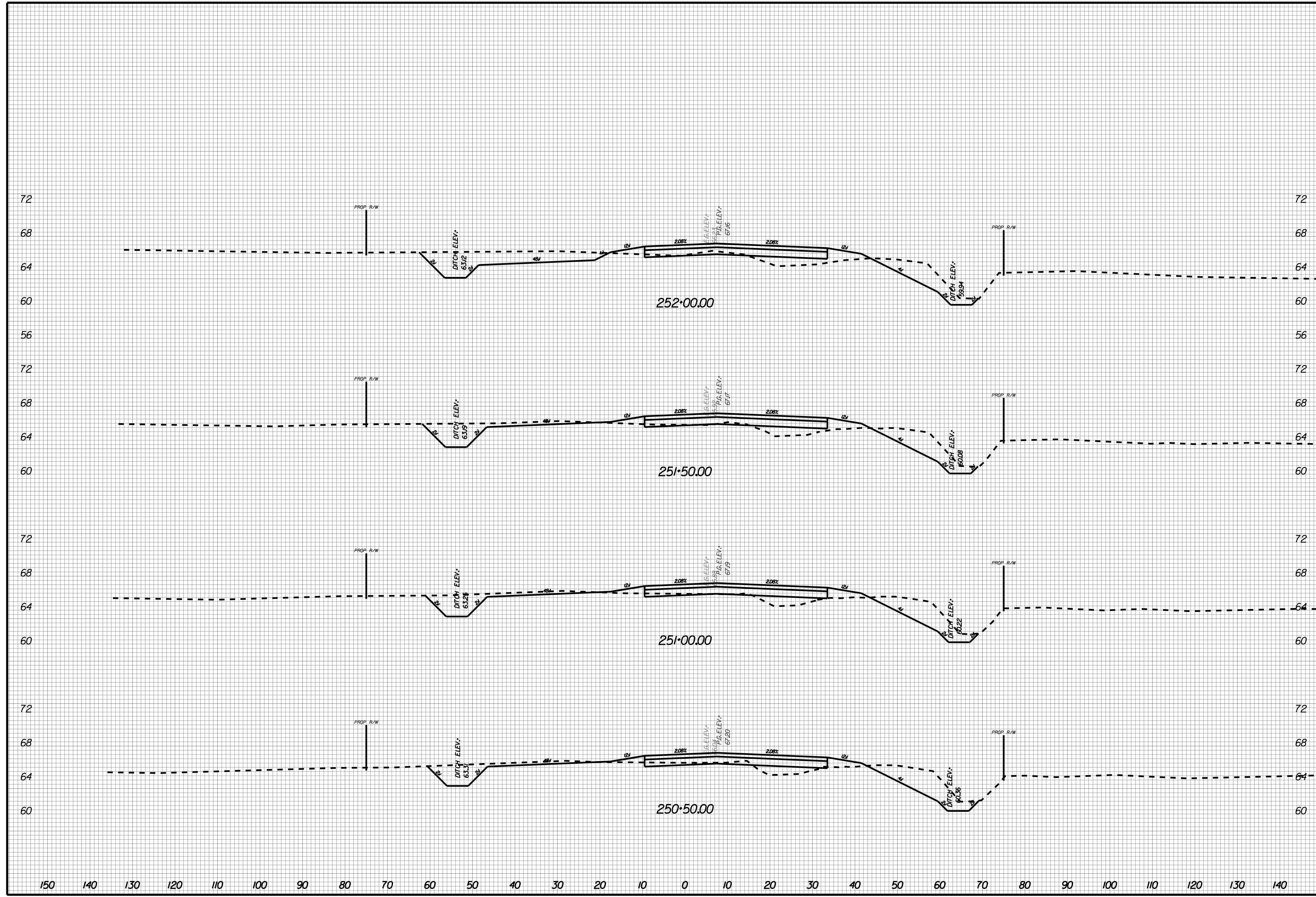
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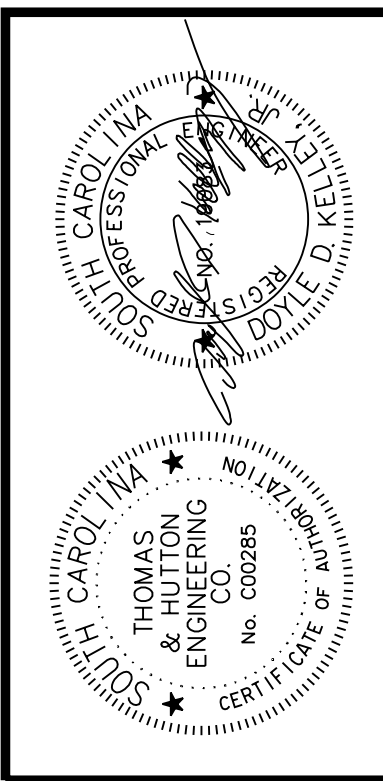
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JOB NO: J-25644.1005
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X116





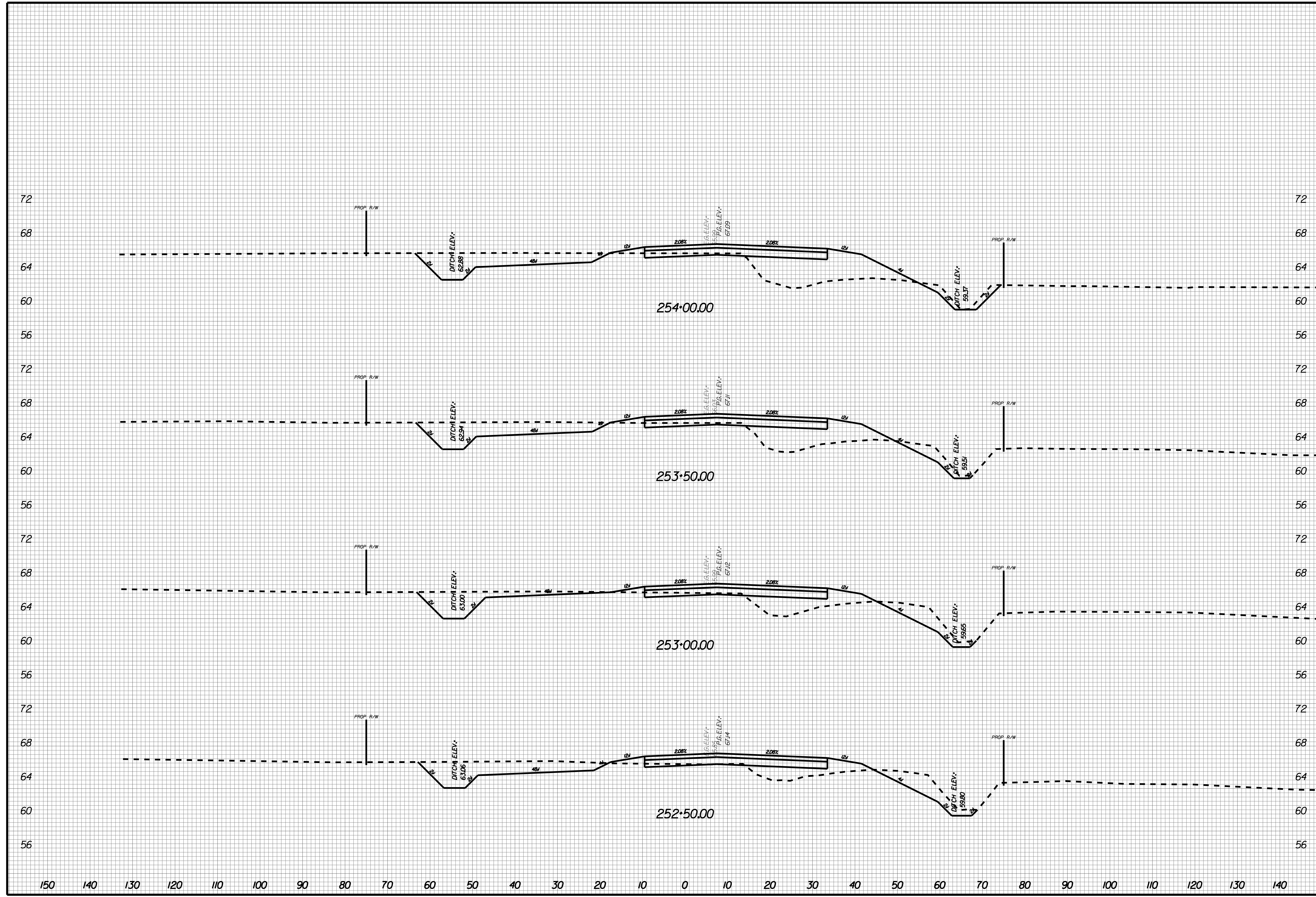
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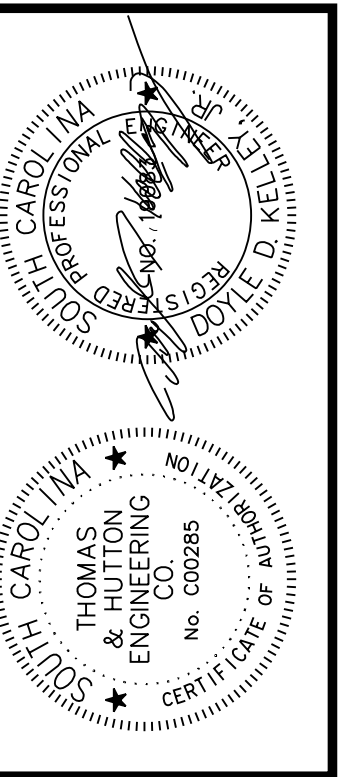
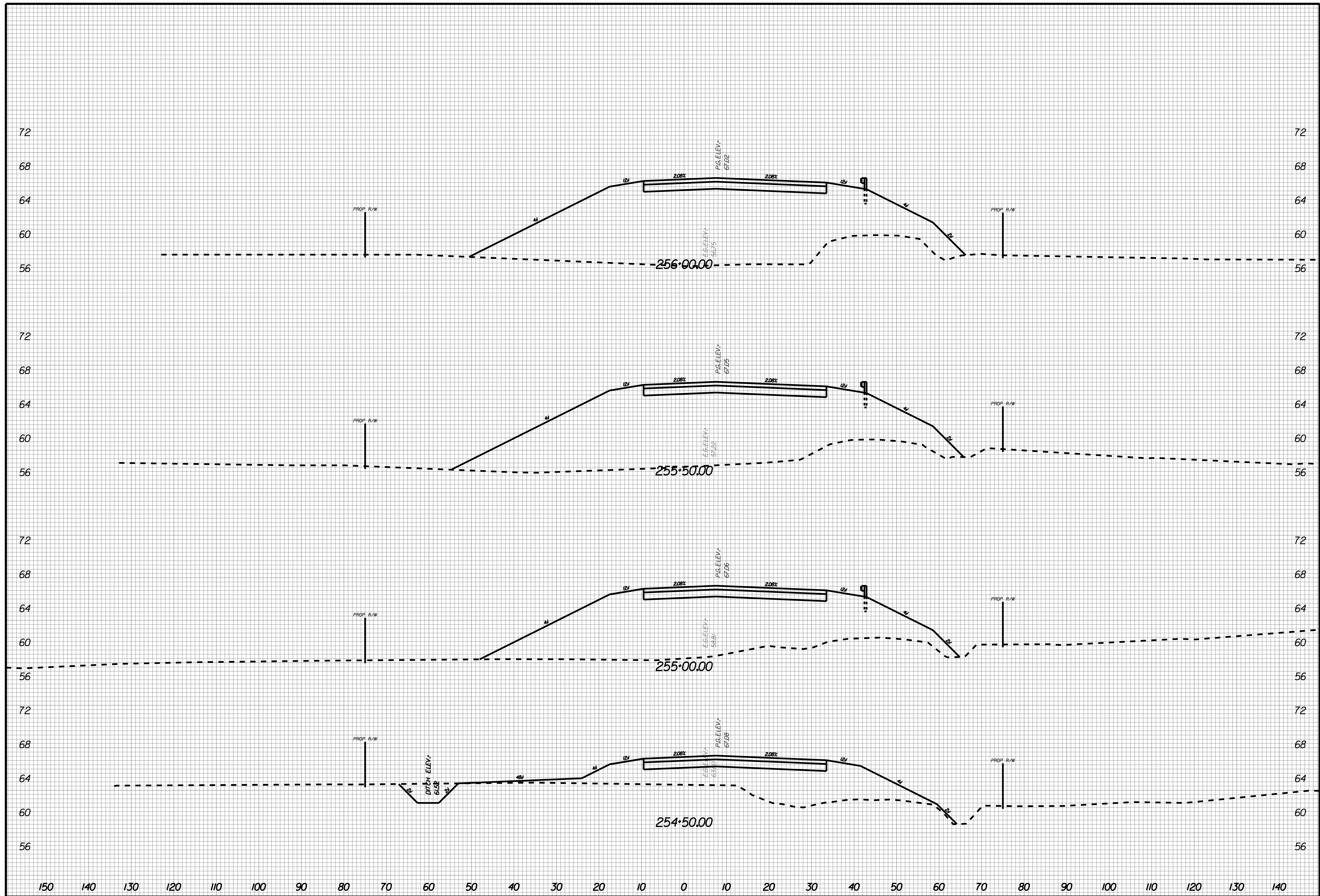
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X117





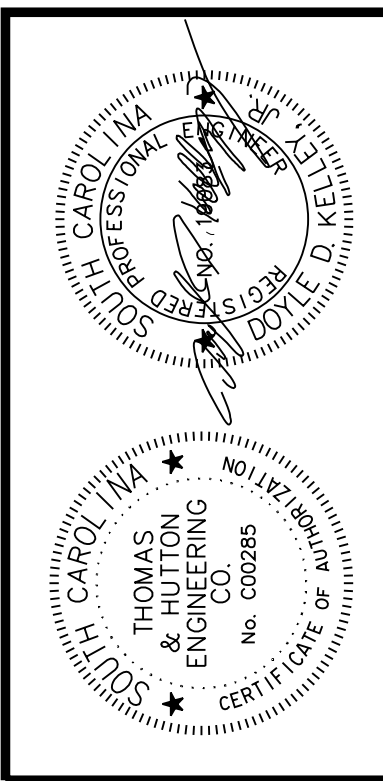
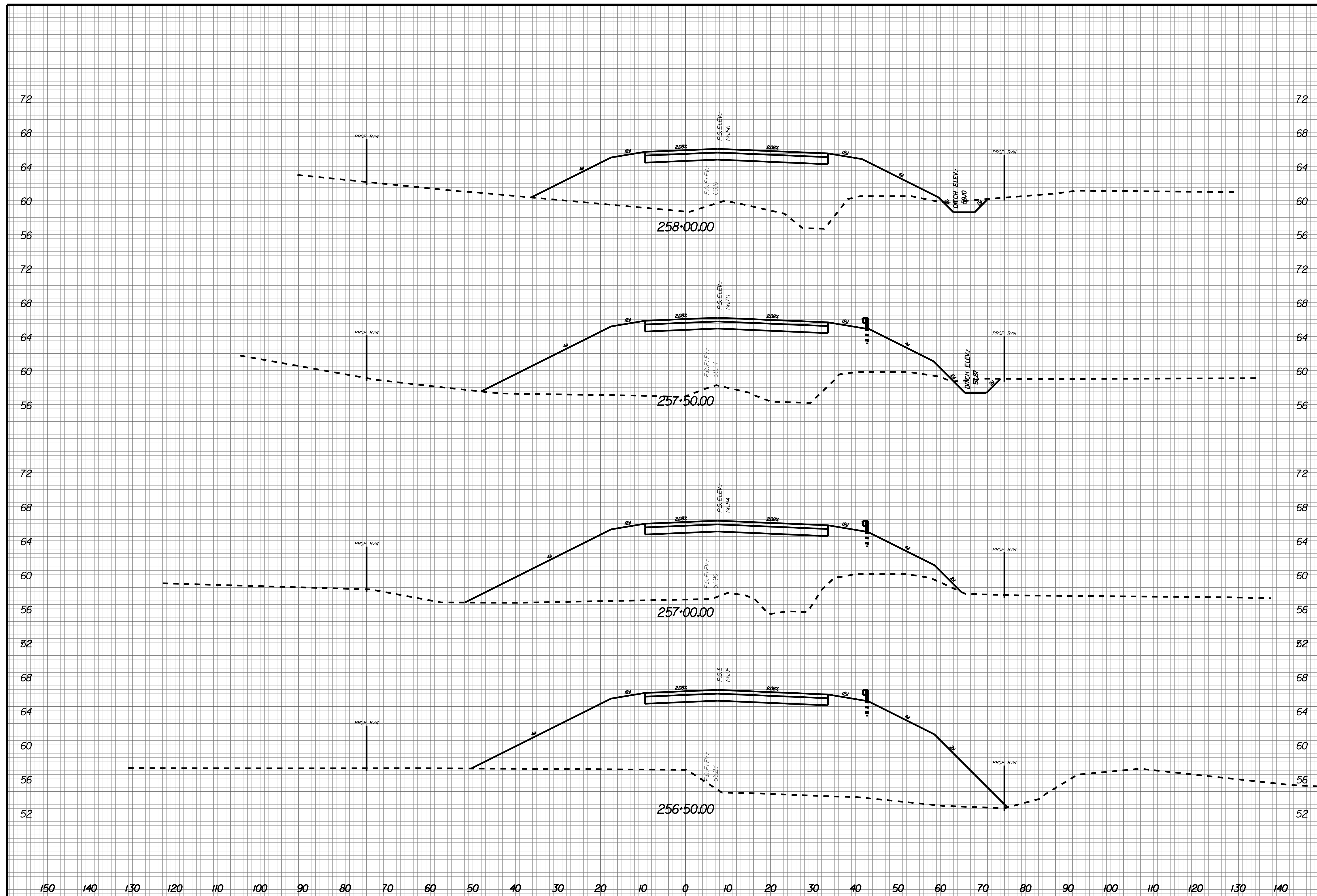
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X118



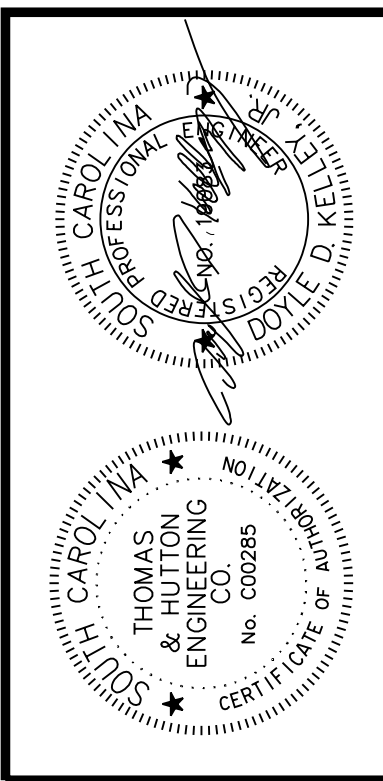
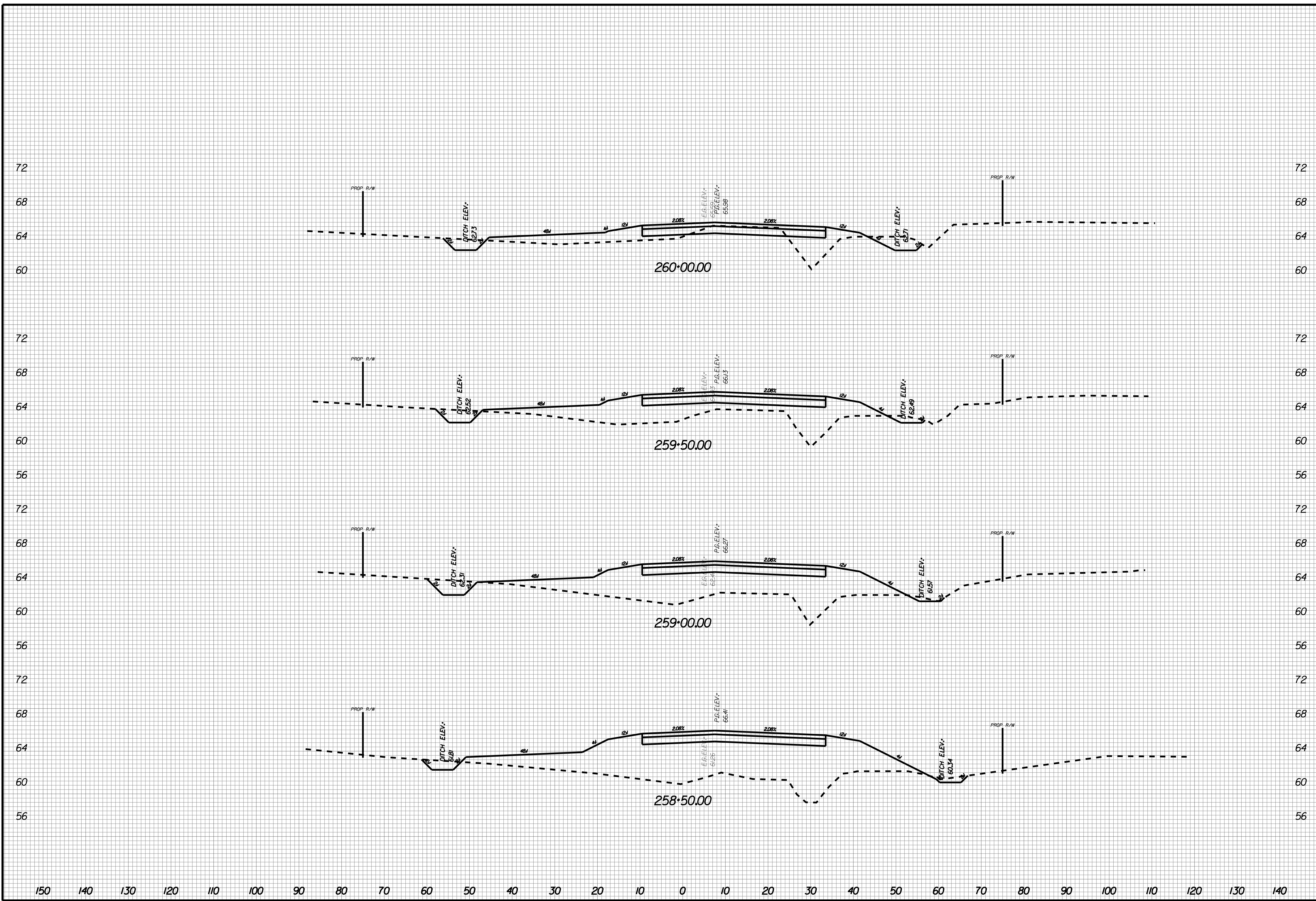
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X119



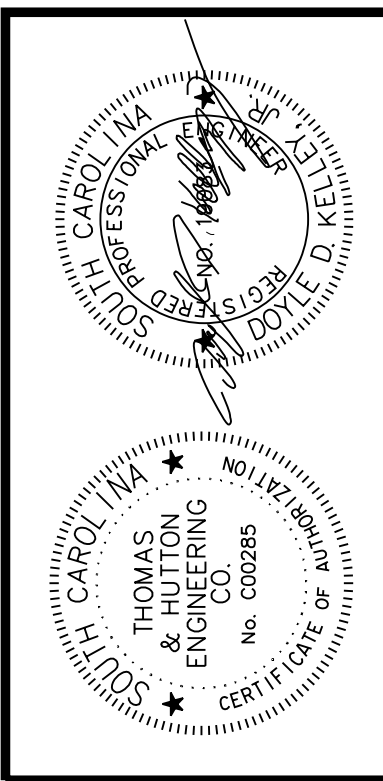
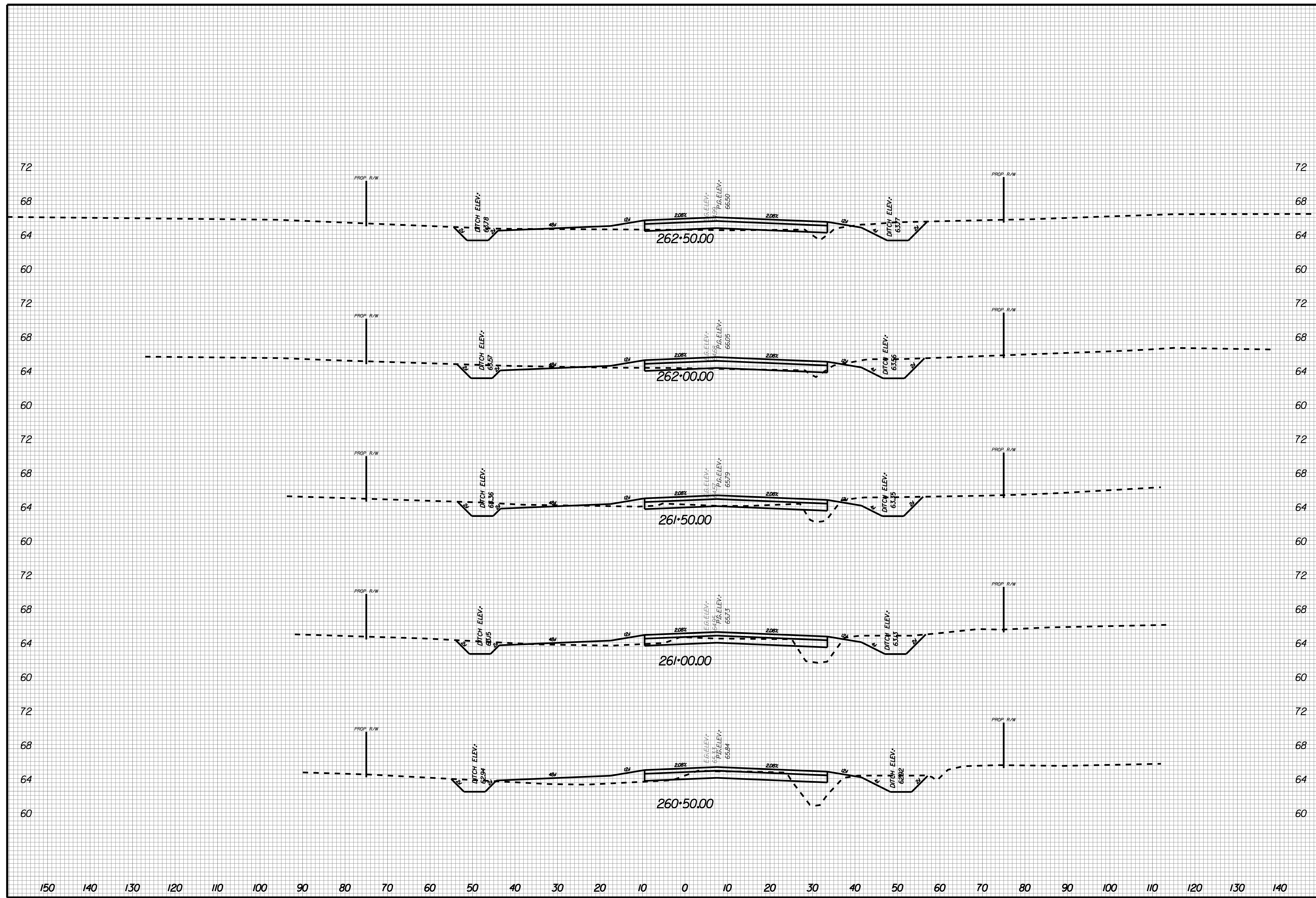
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X120



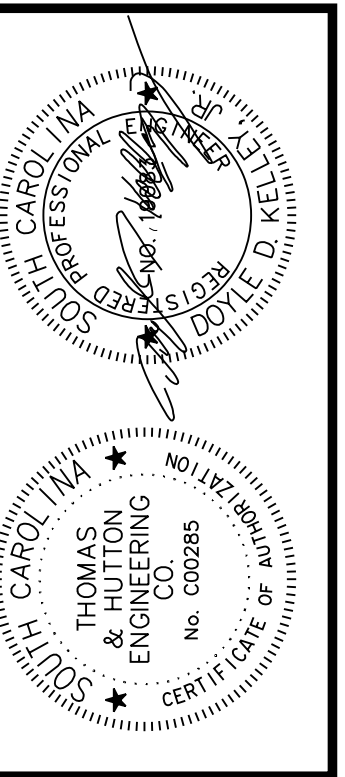
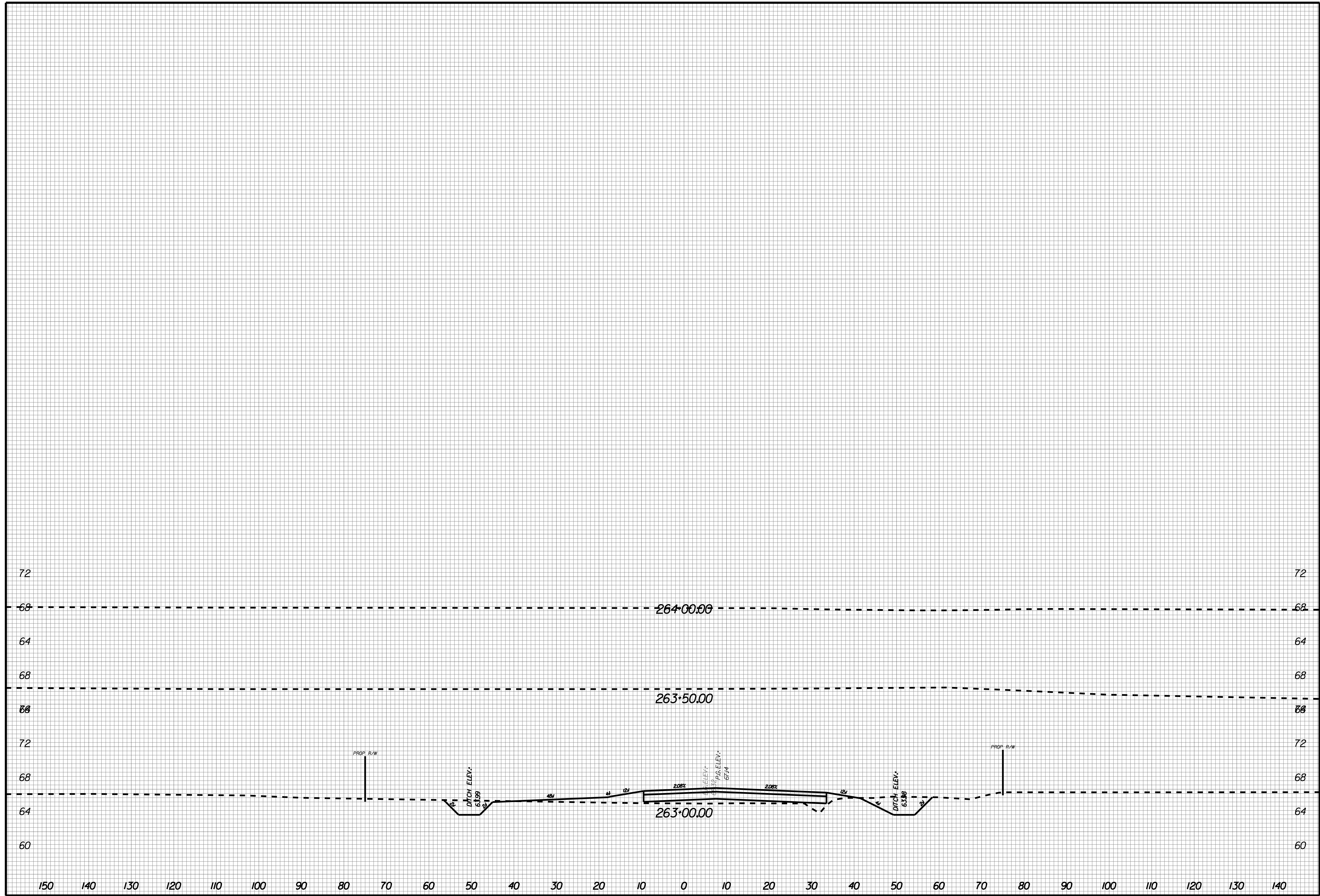
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X121



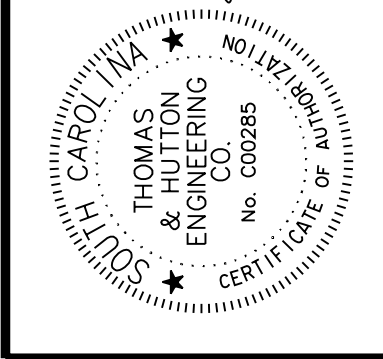
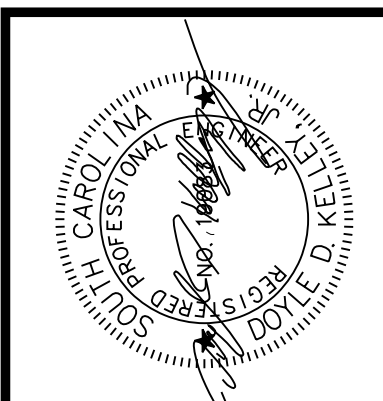
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X122



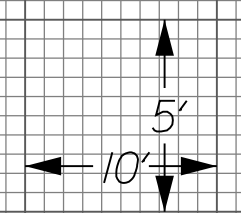
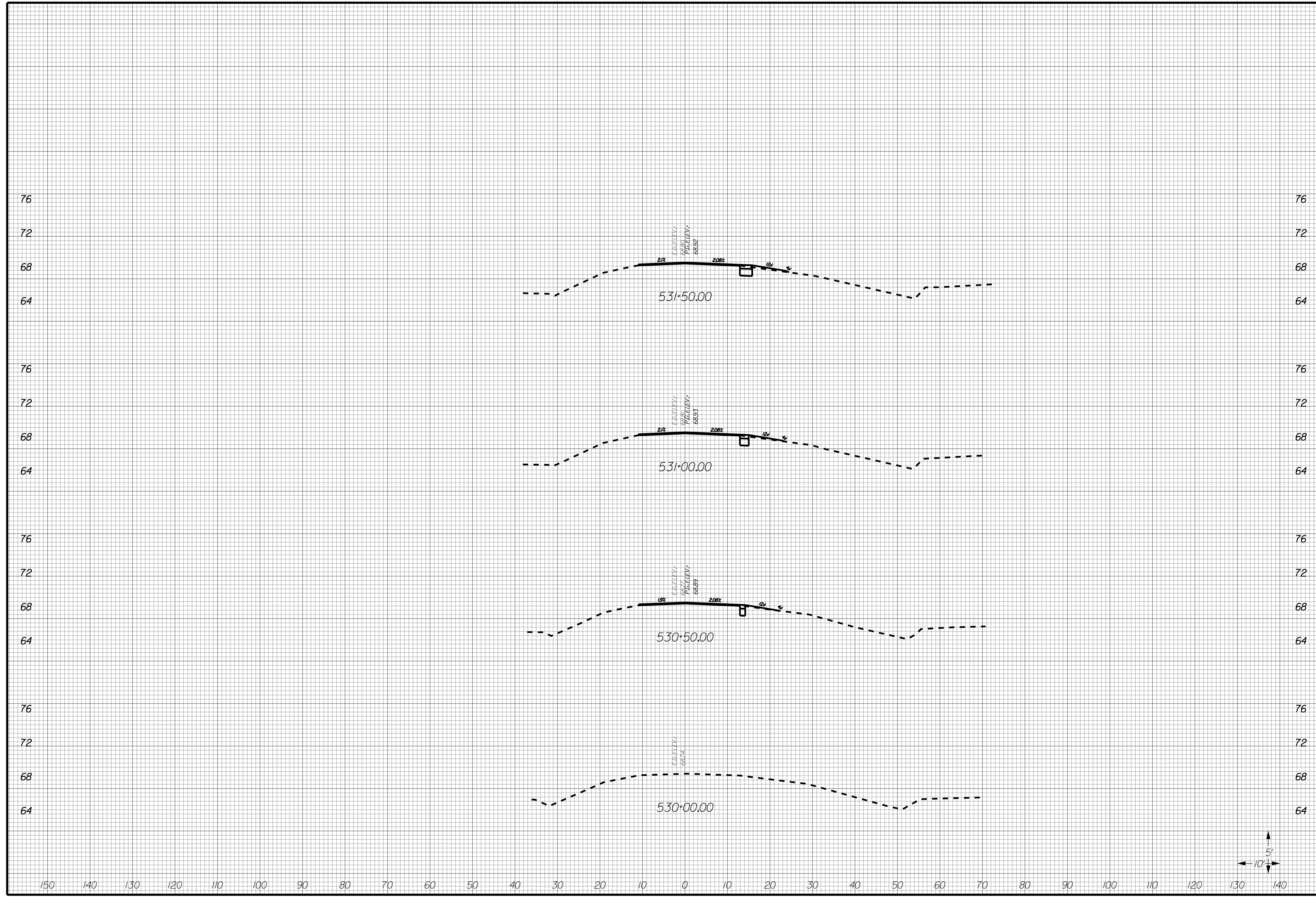
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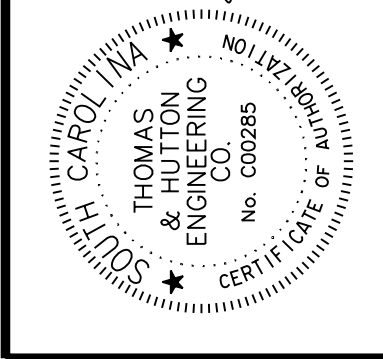
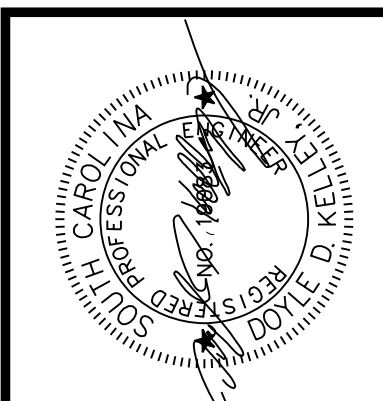
BERKELEY COUNTY
 BERKELEY COUNTY, SC
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 CROSS SECTIONS

JOB NO: J-25644.1005
 DATE: _____
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 SCALE: AS NOTED

X123



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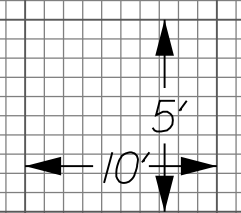
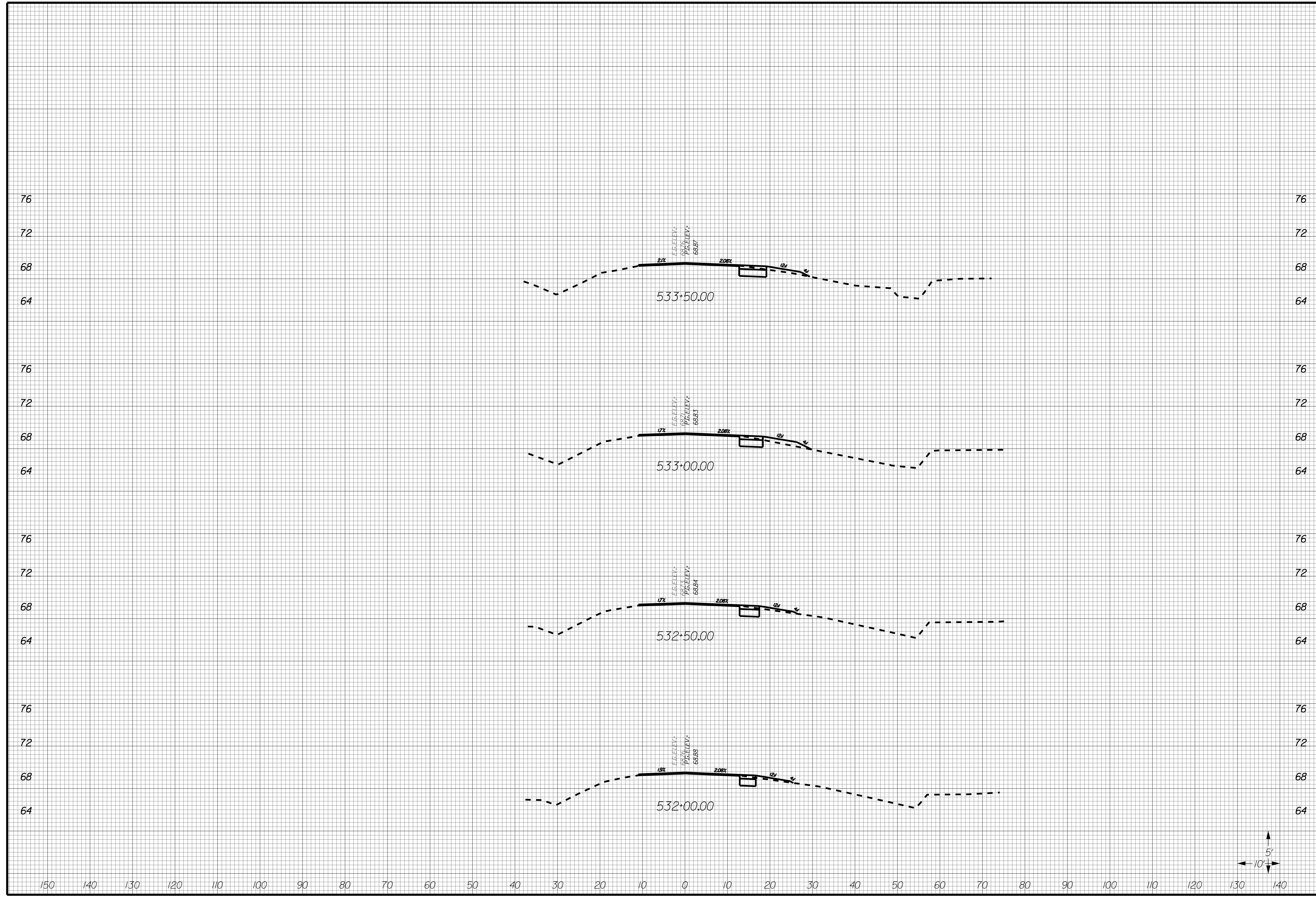
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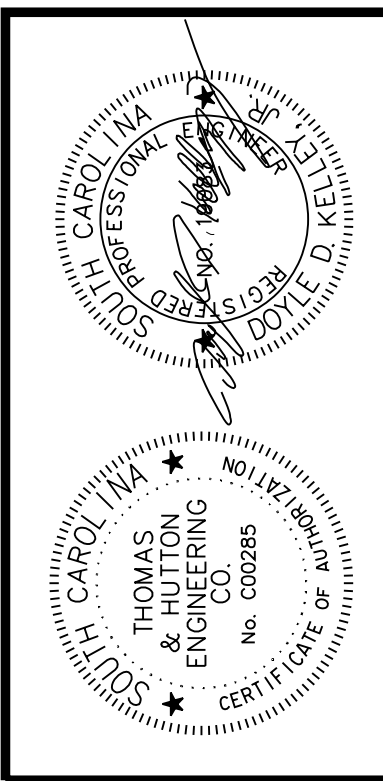
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X124





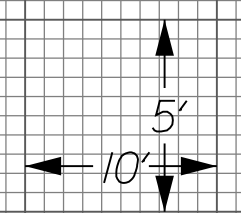
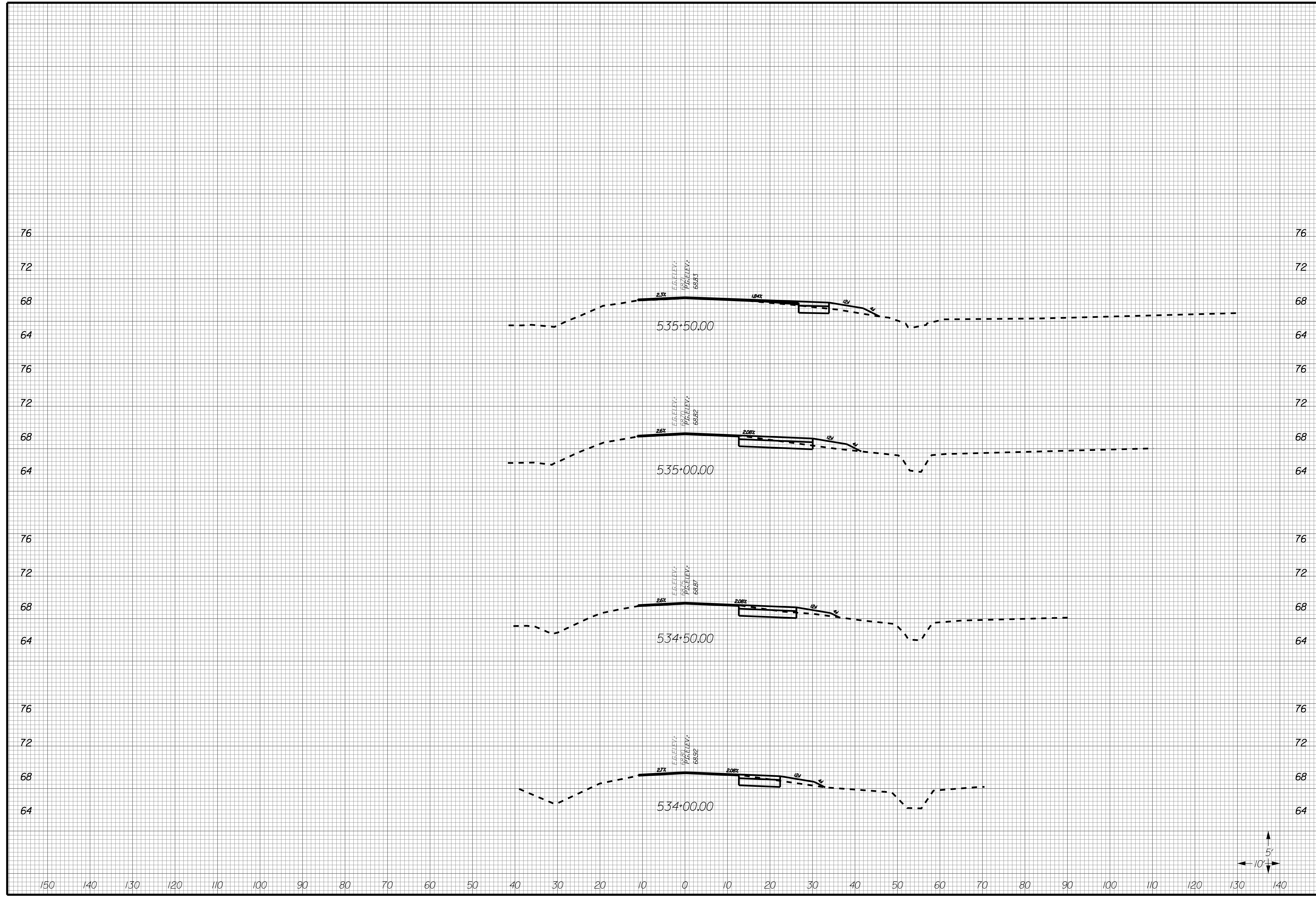
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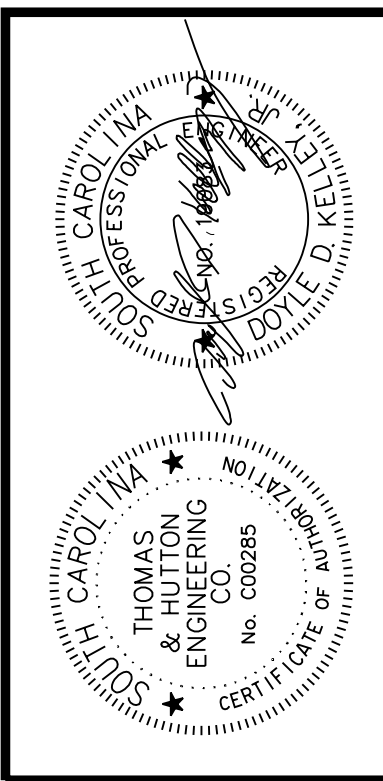
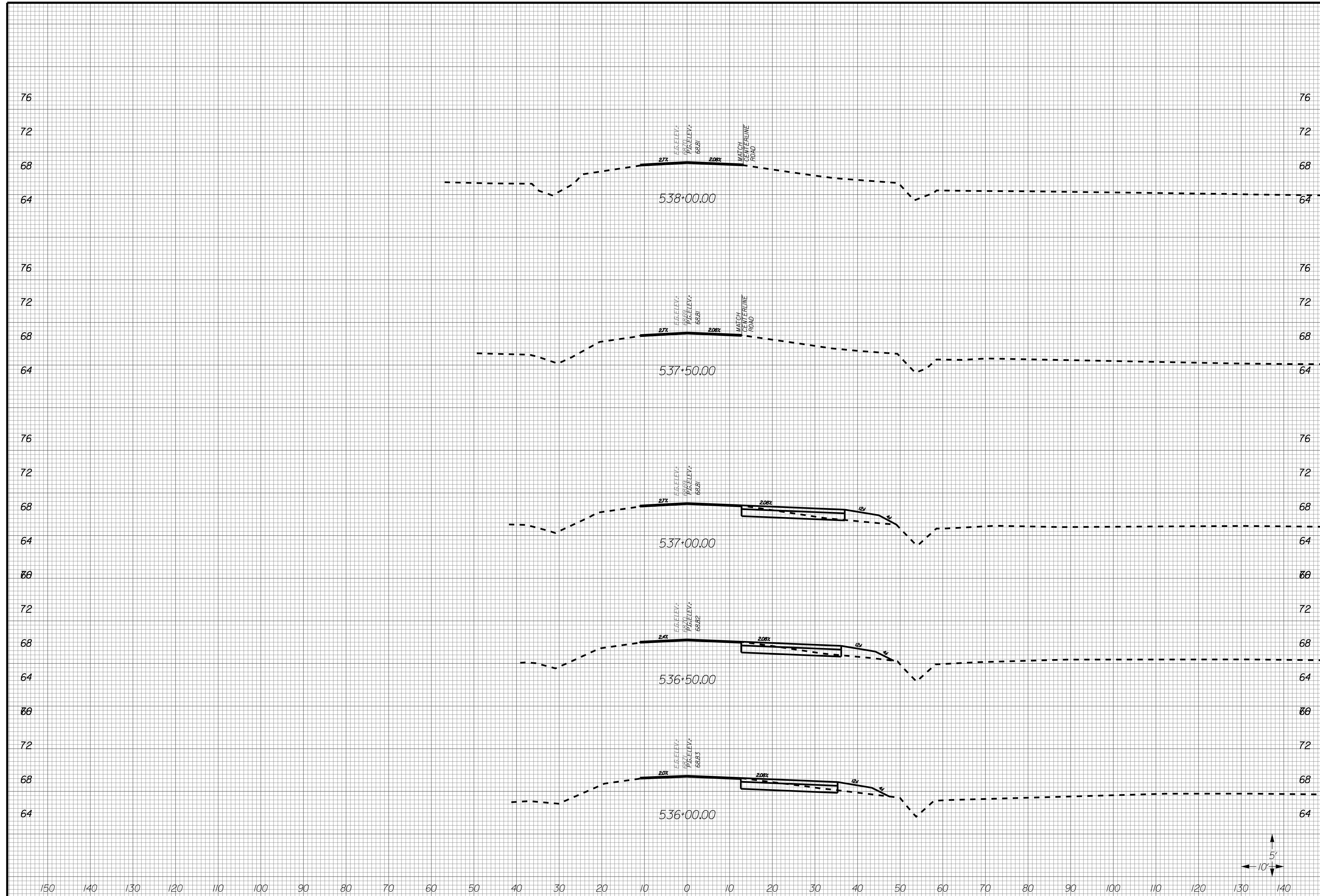
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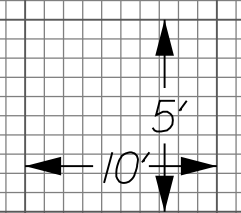
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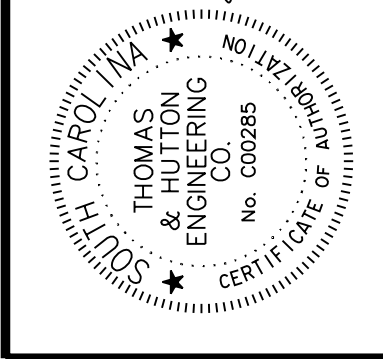
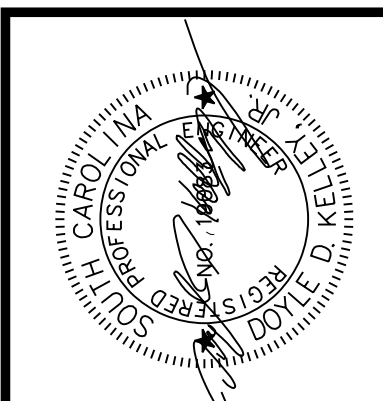
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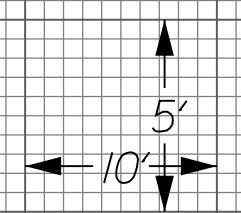
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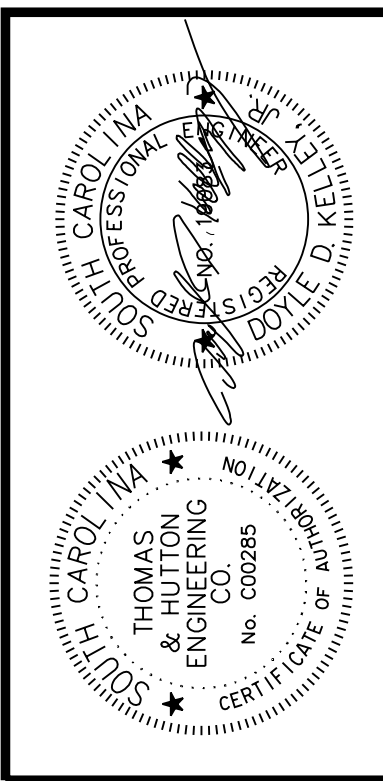
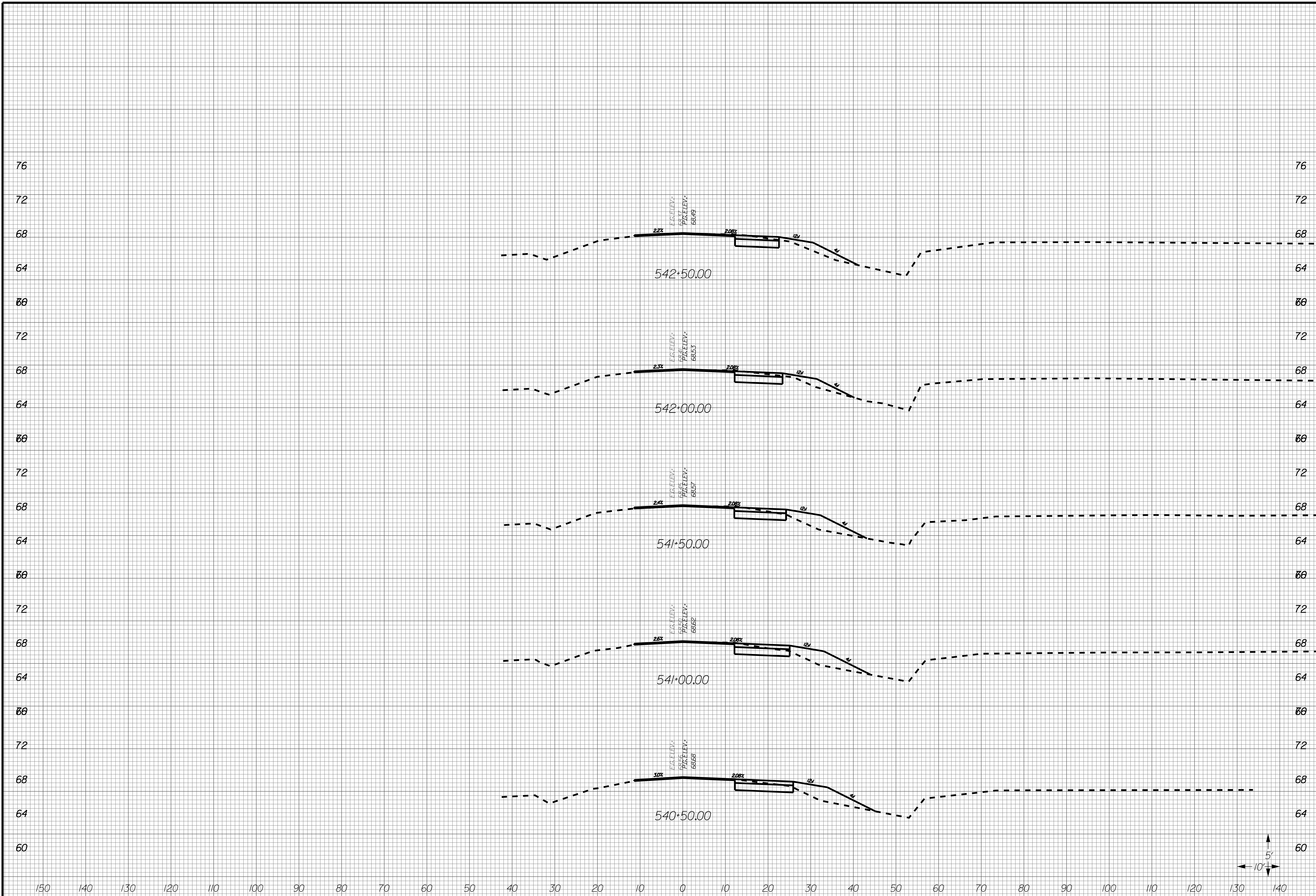
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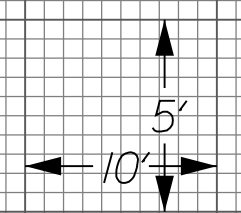
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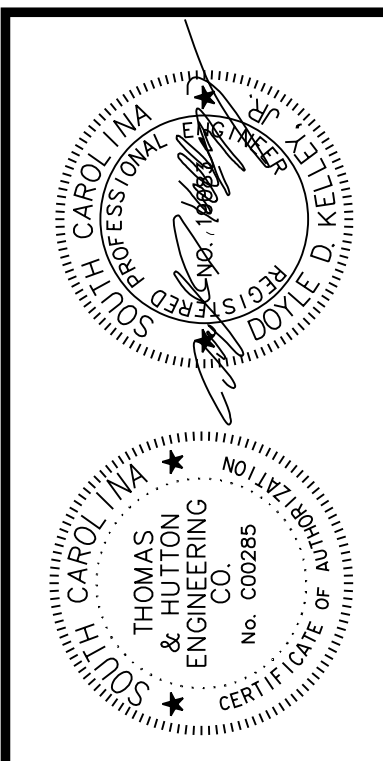
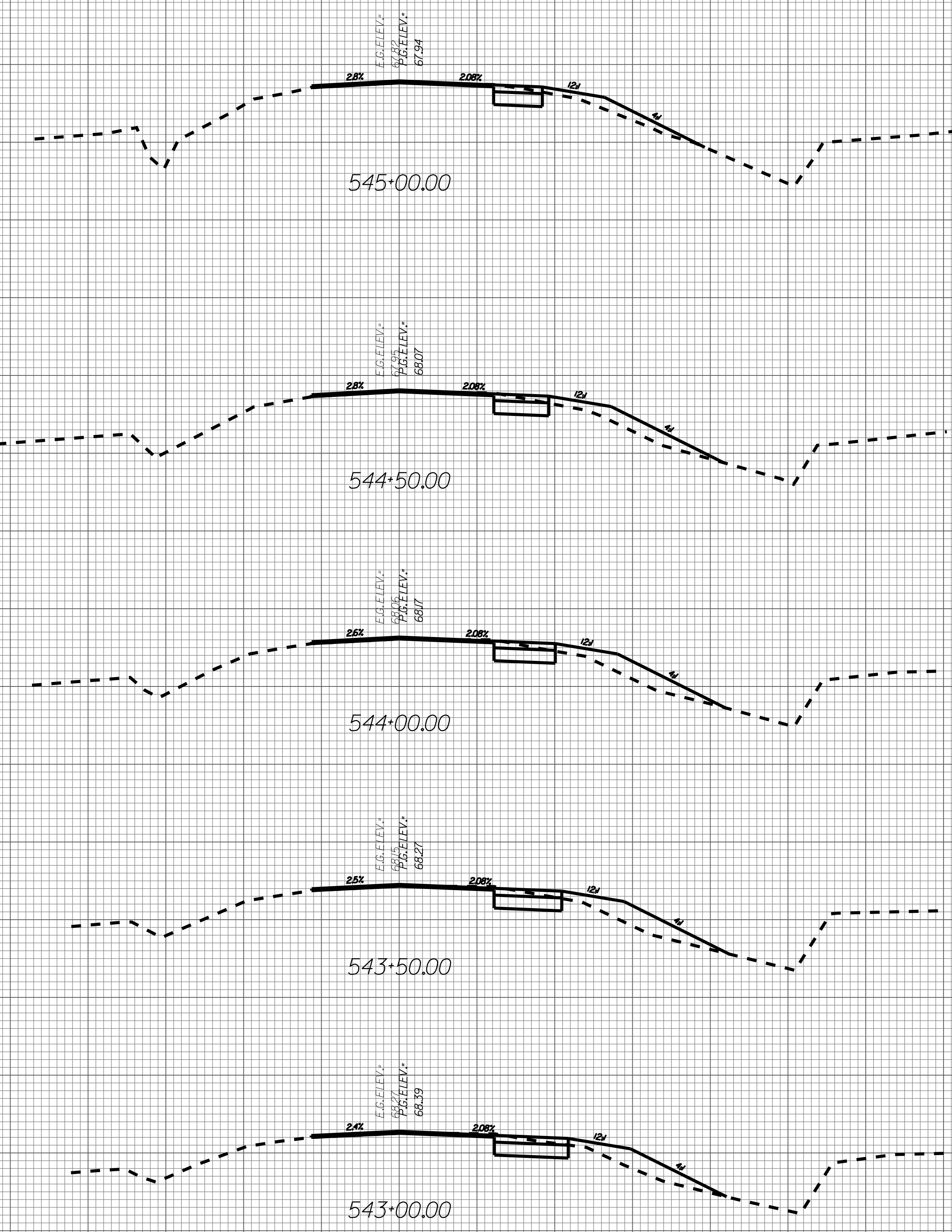
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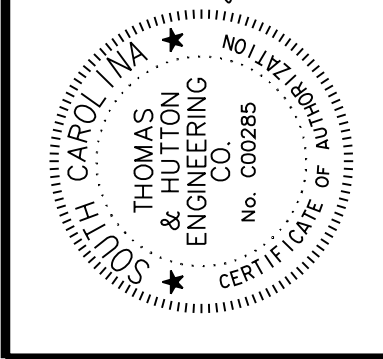
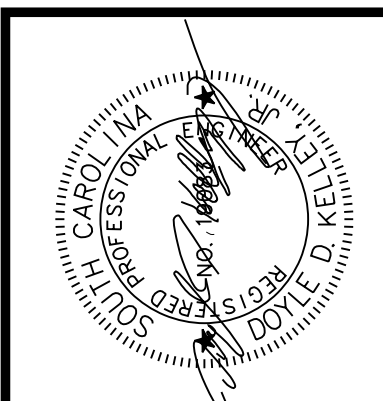
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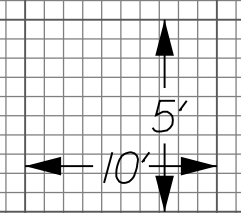
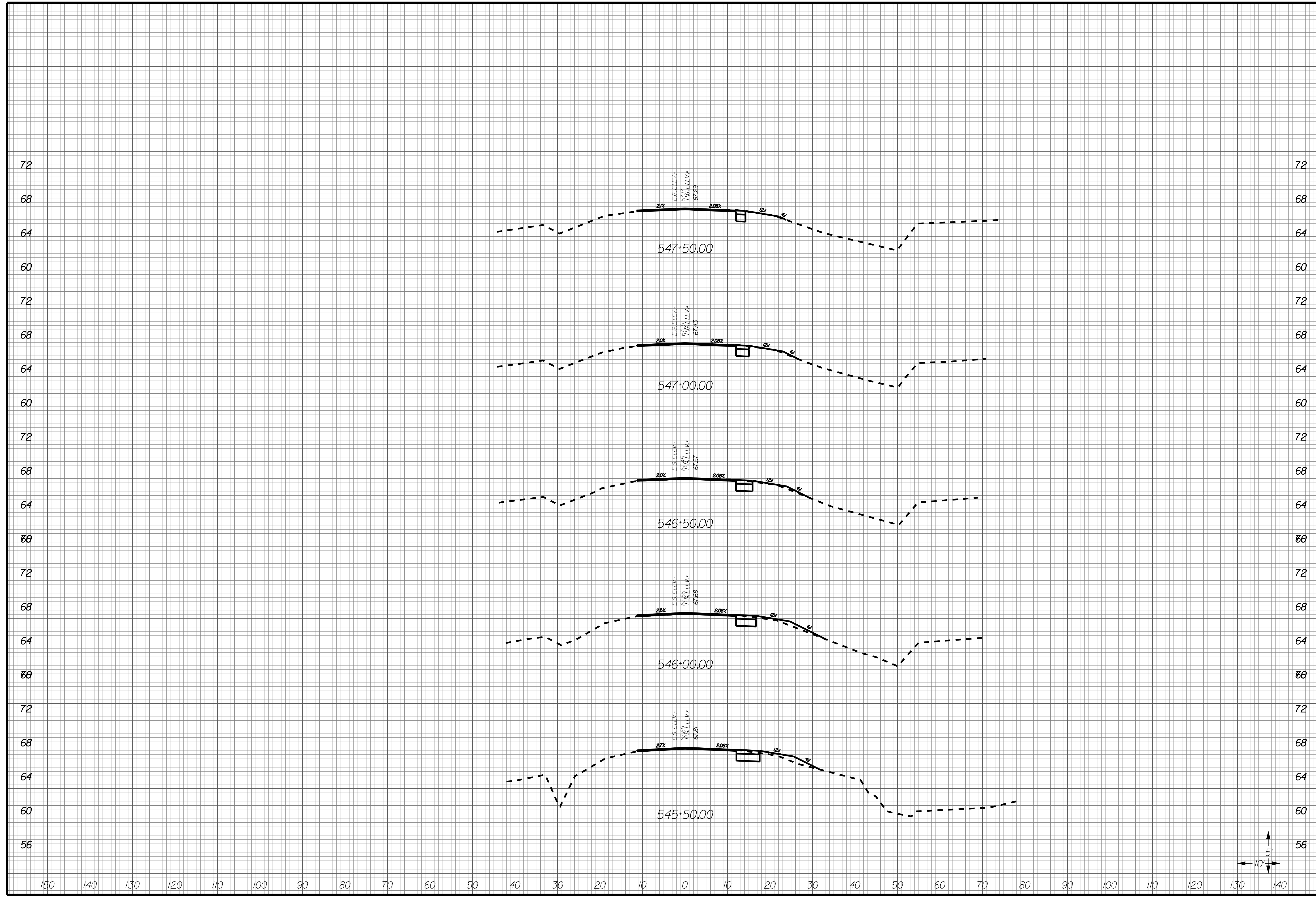
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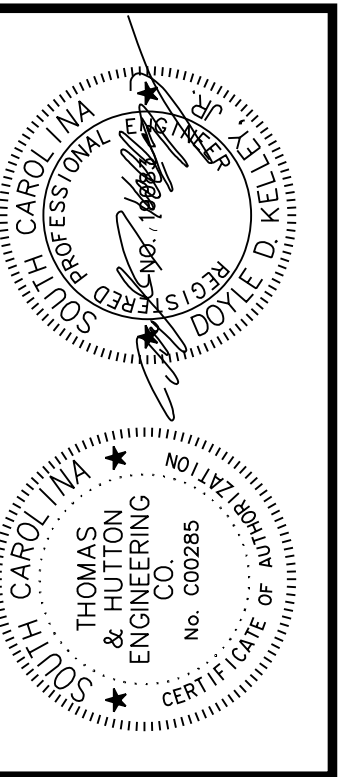
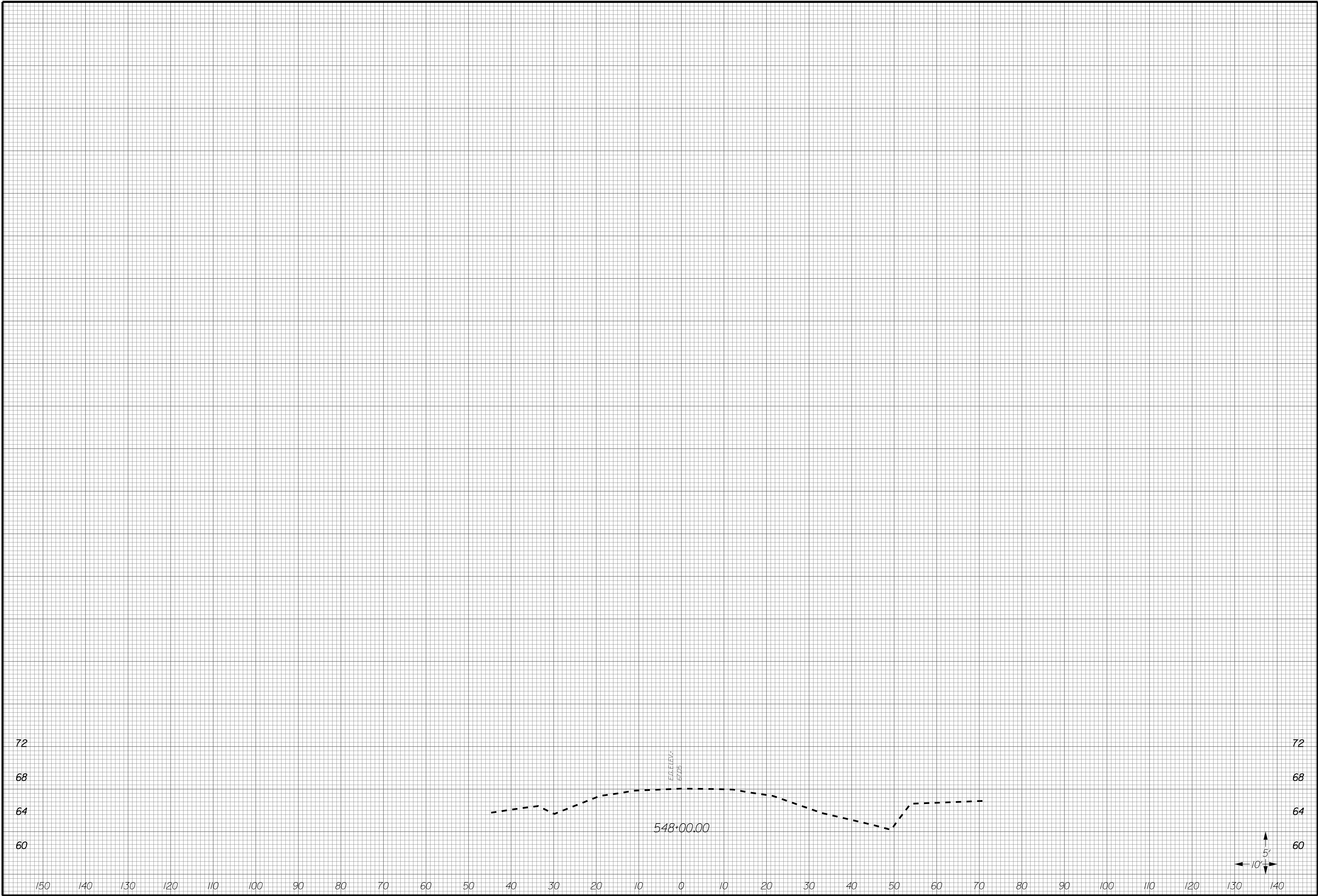
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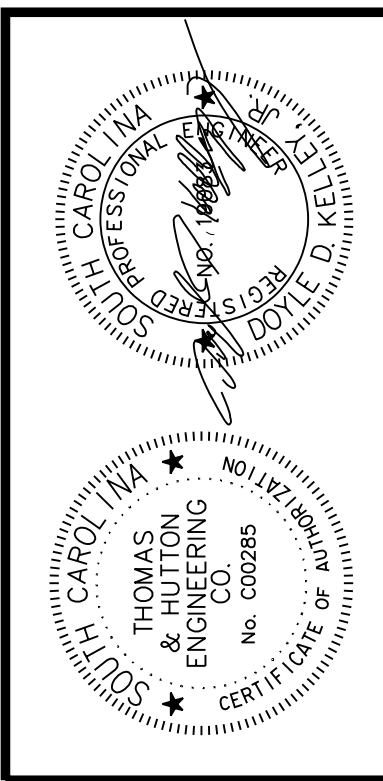
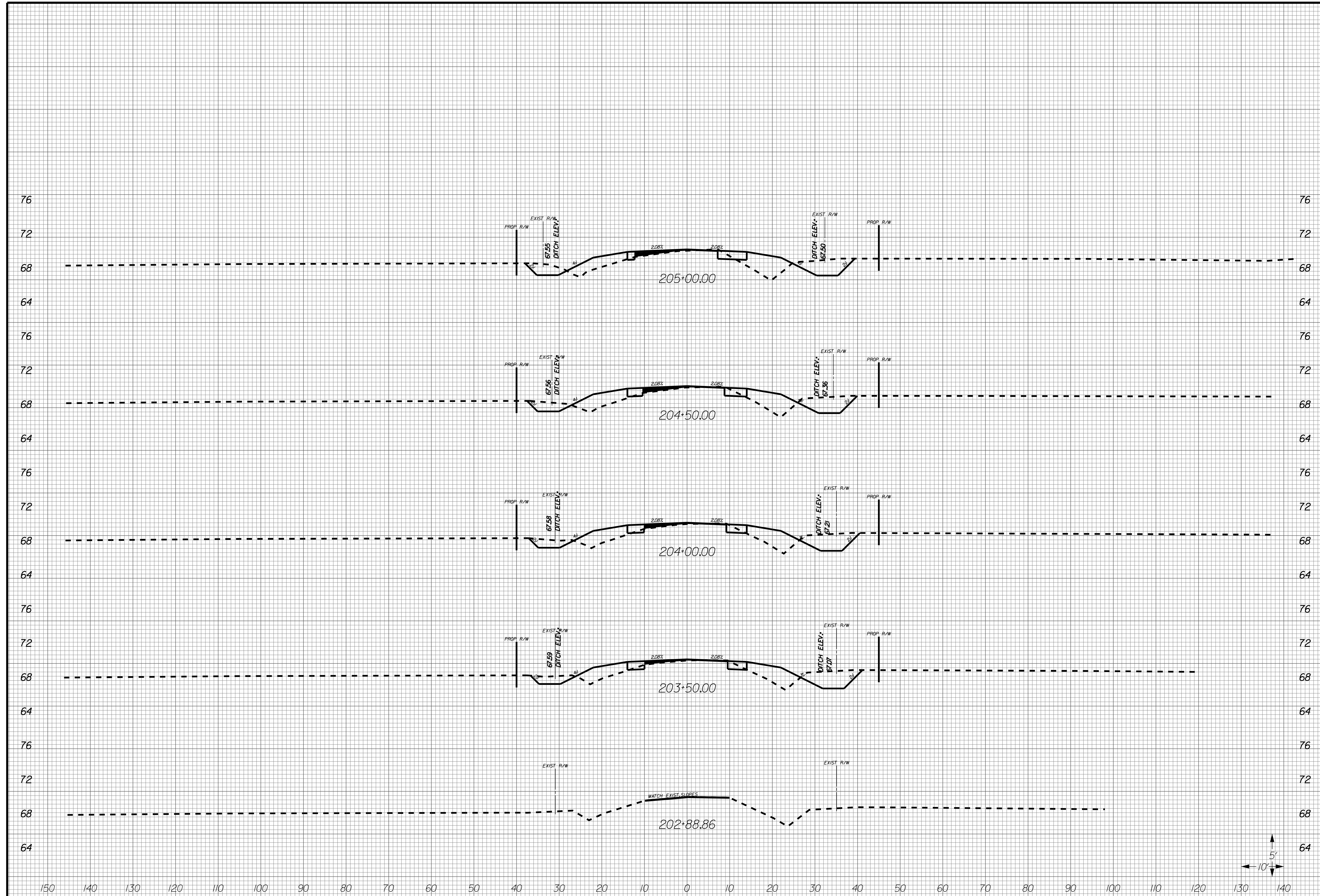
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SCALE:	AS NOTED

X131



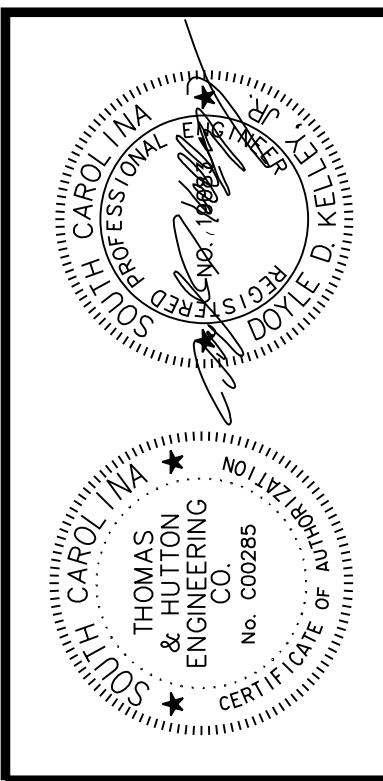
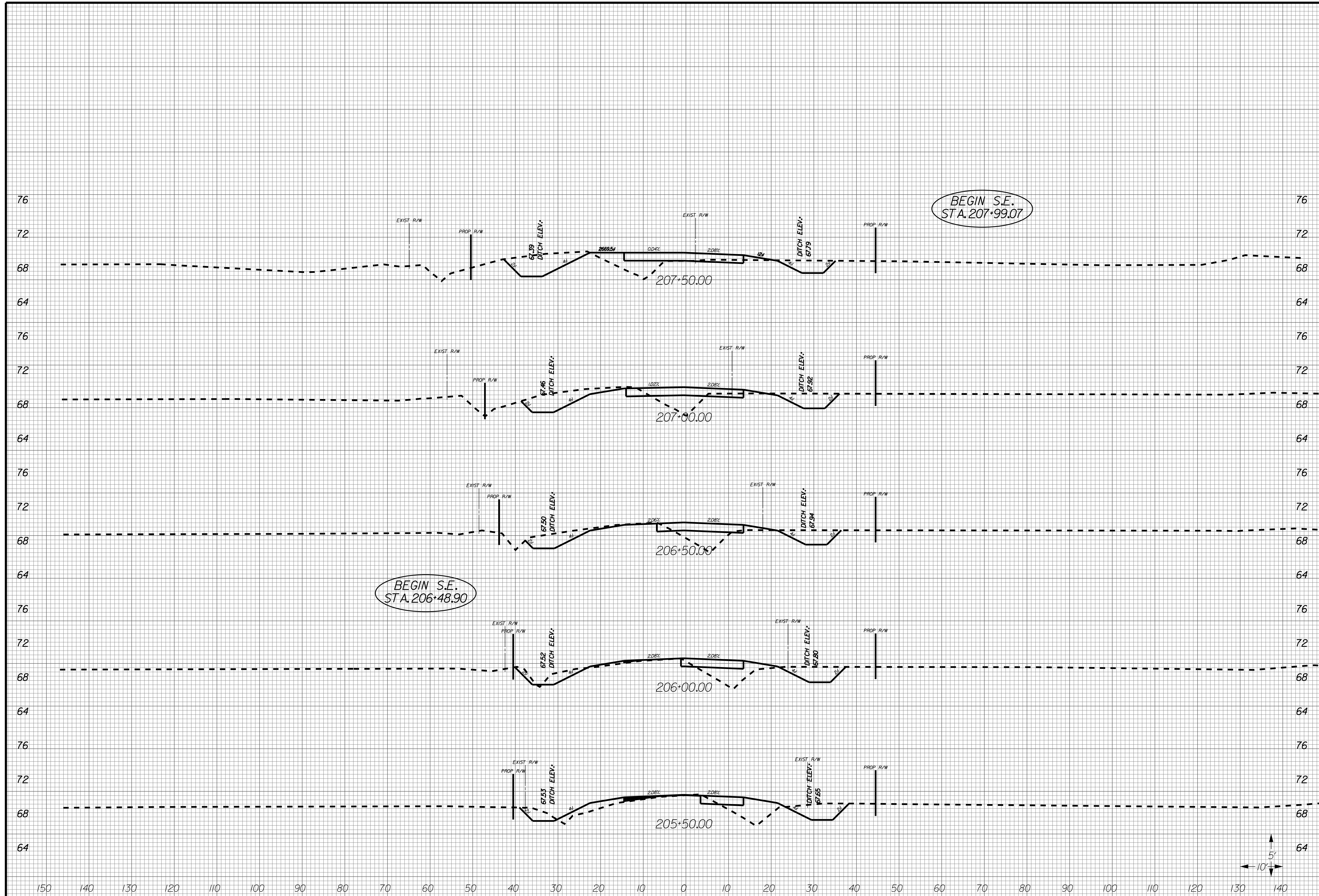
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 CROSS SECTIONS

JOB NO: J-25644.1005
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 SCALE: AS NOTED

X132



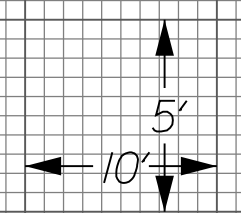
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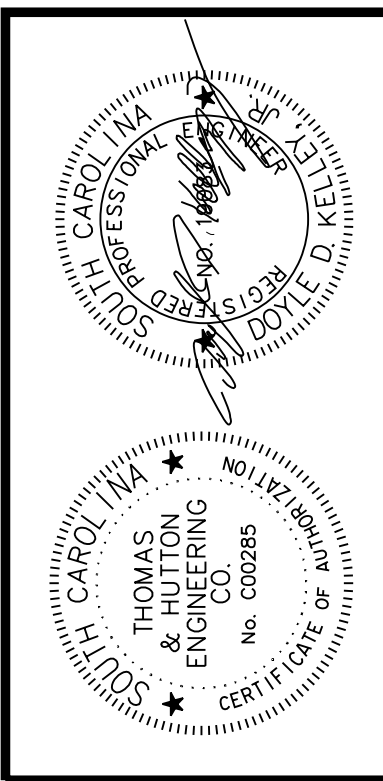
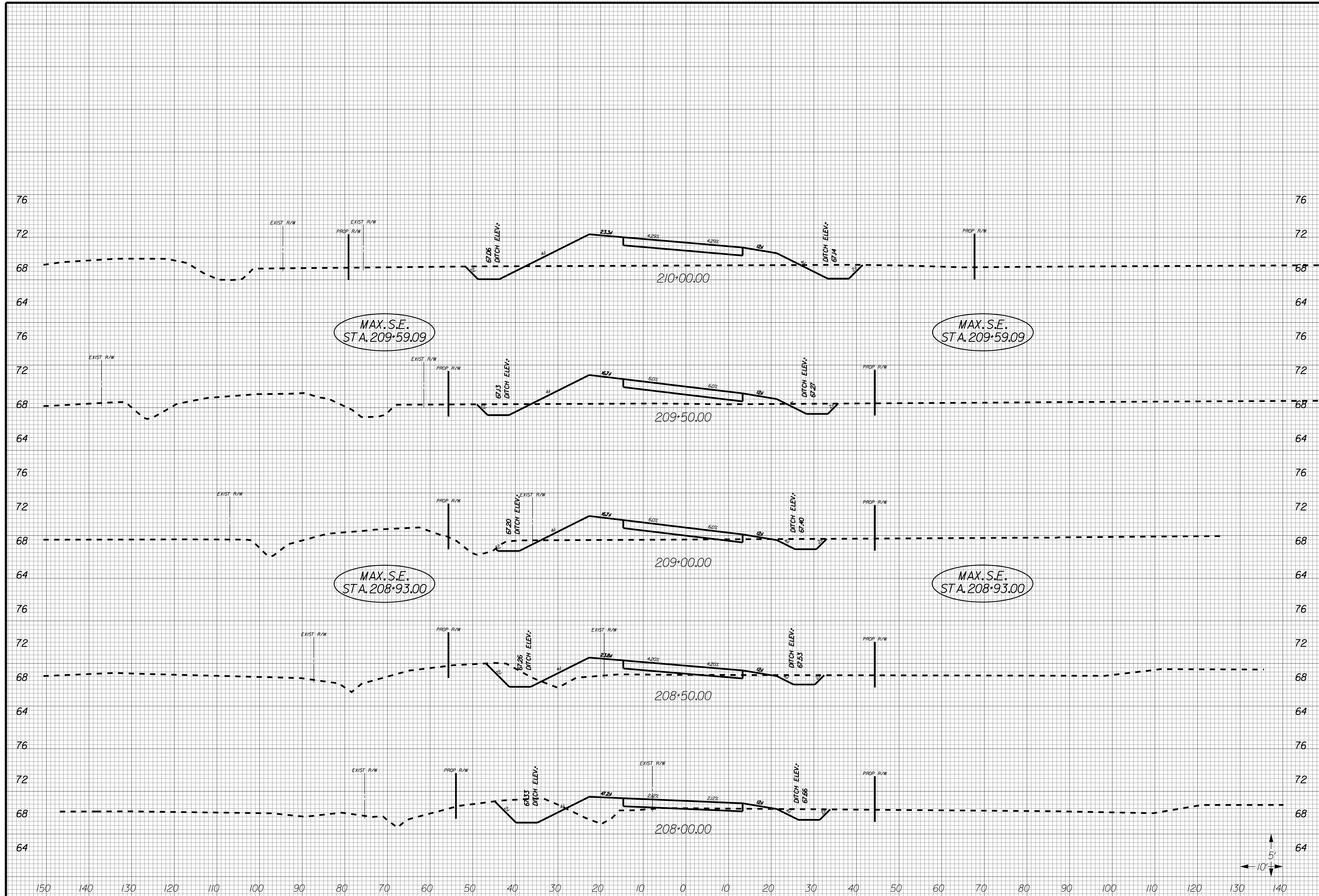
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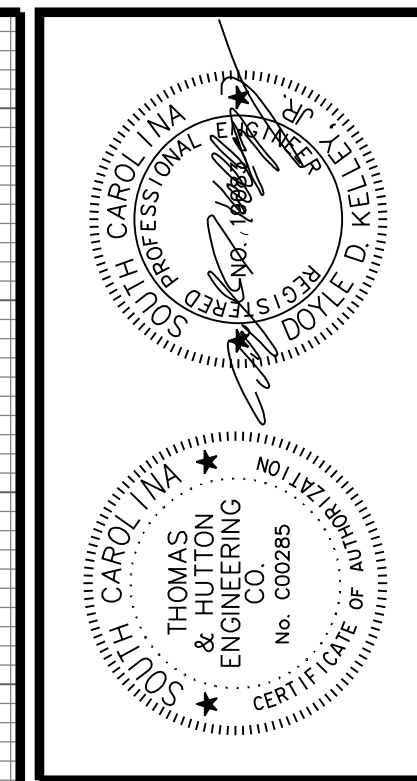
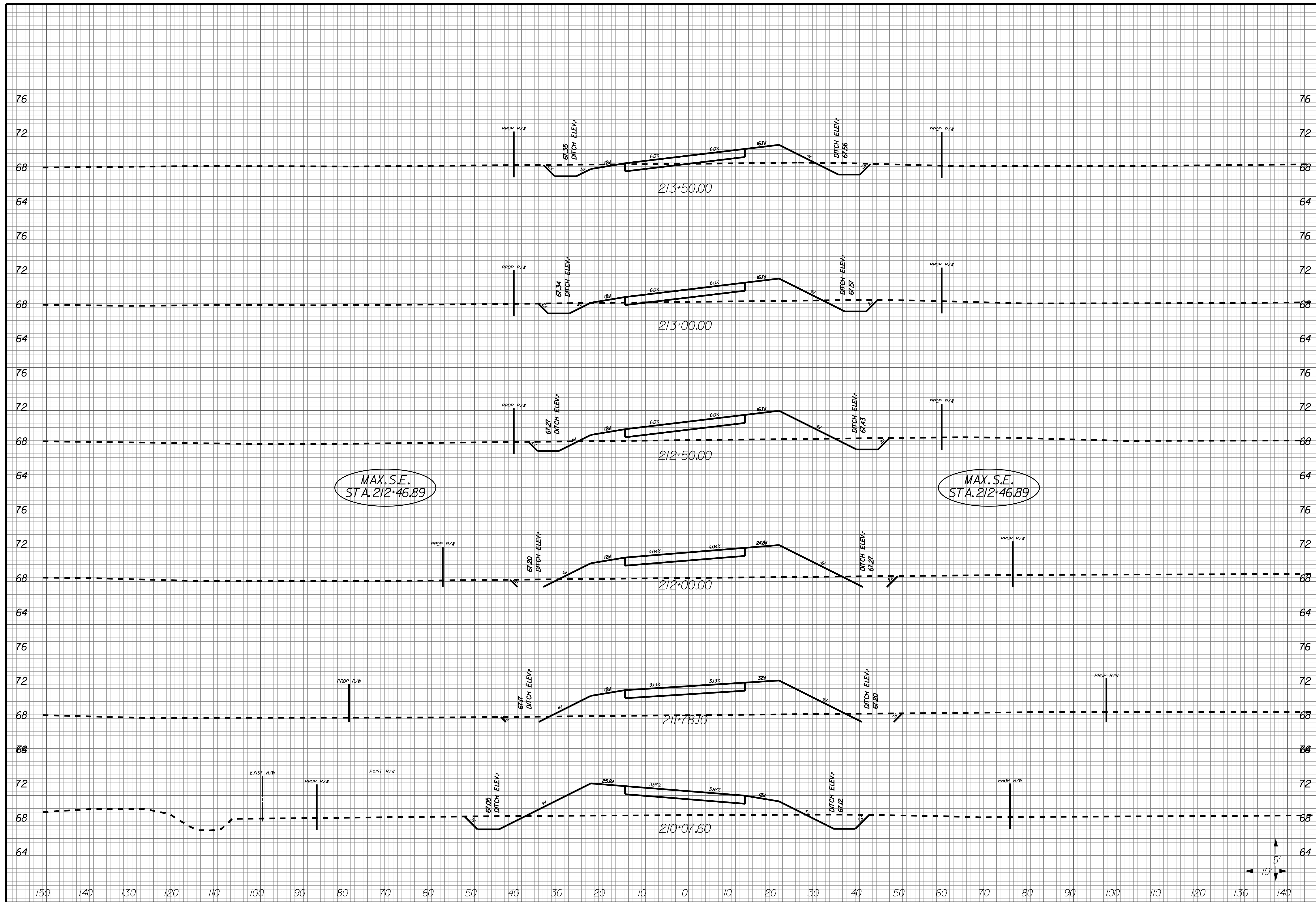
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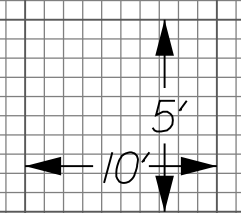
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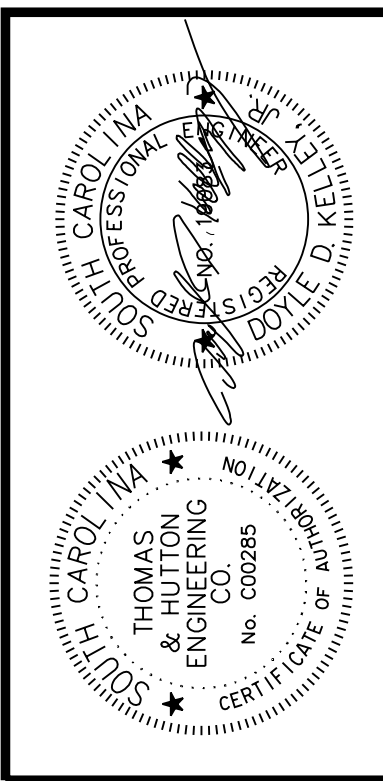
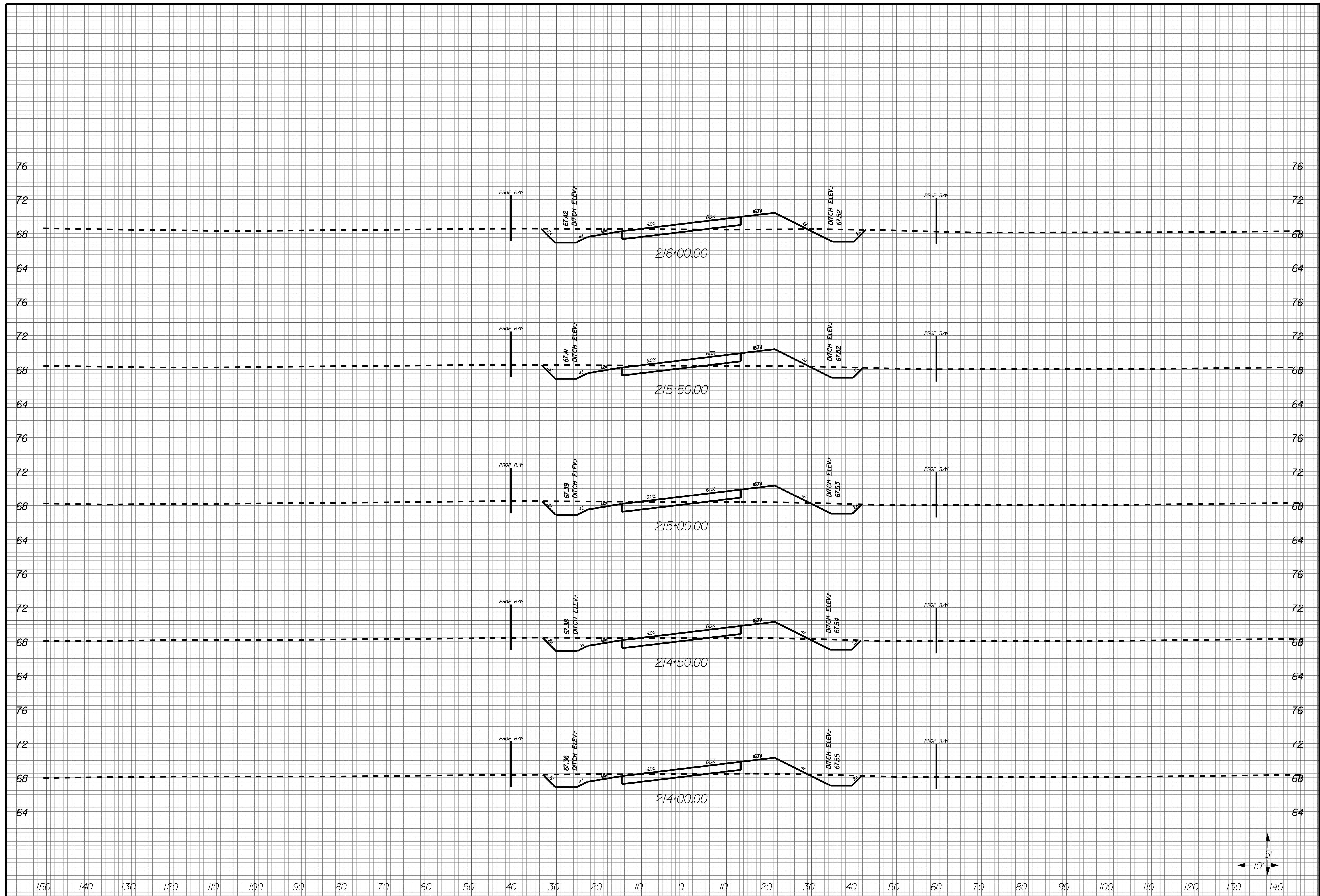
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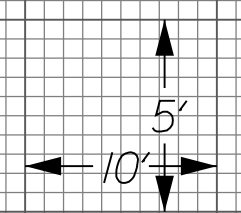
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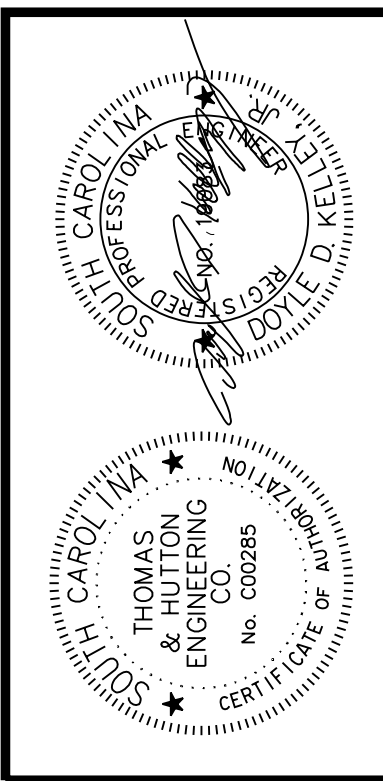
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X136





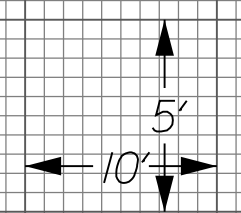
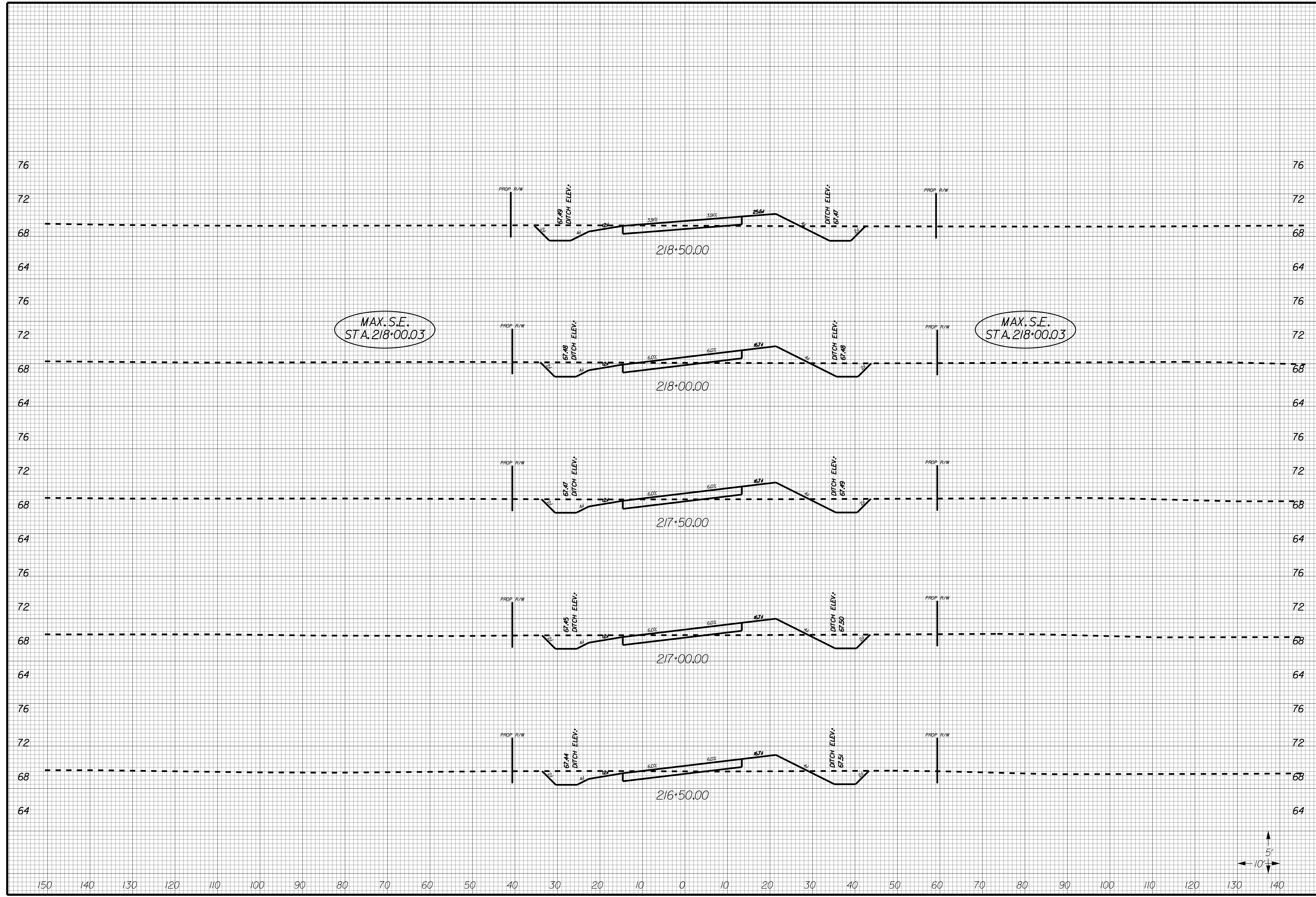
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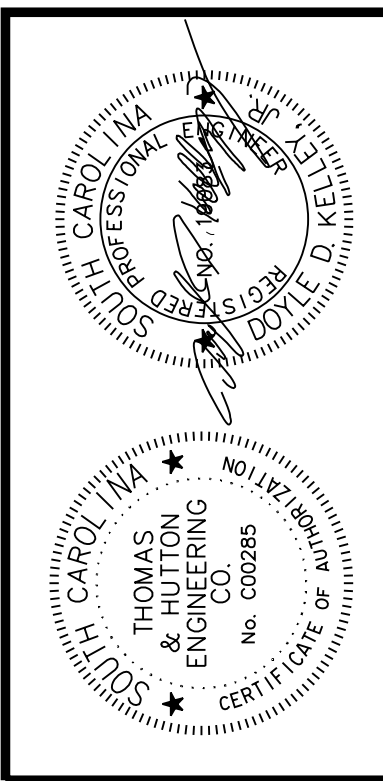
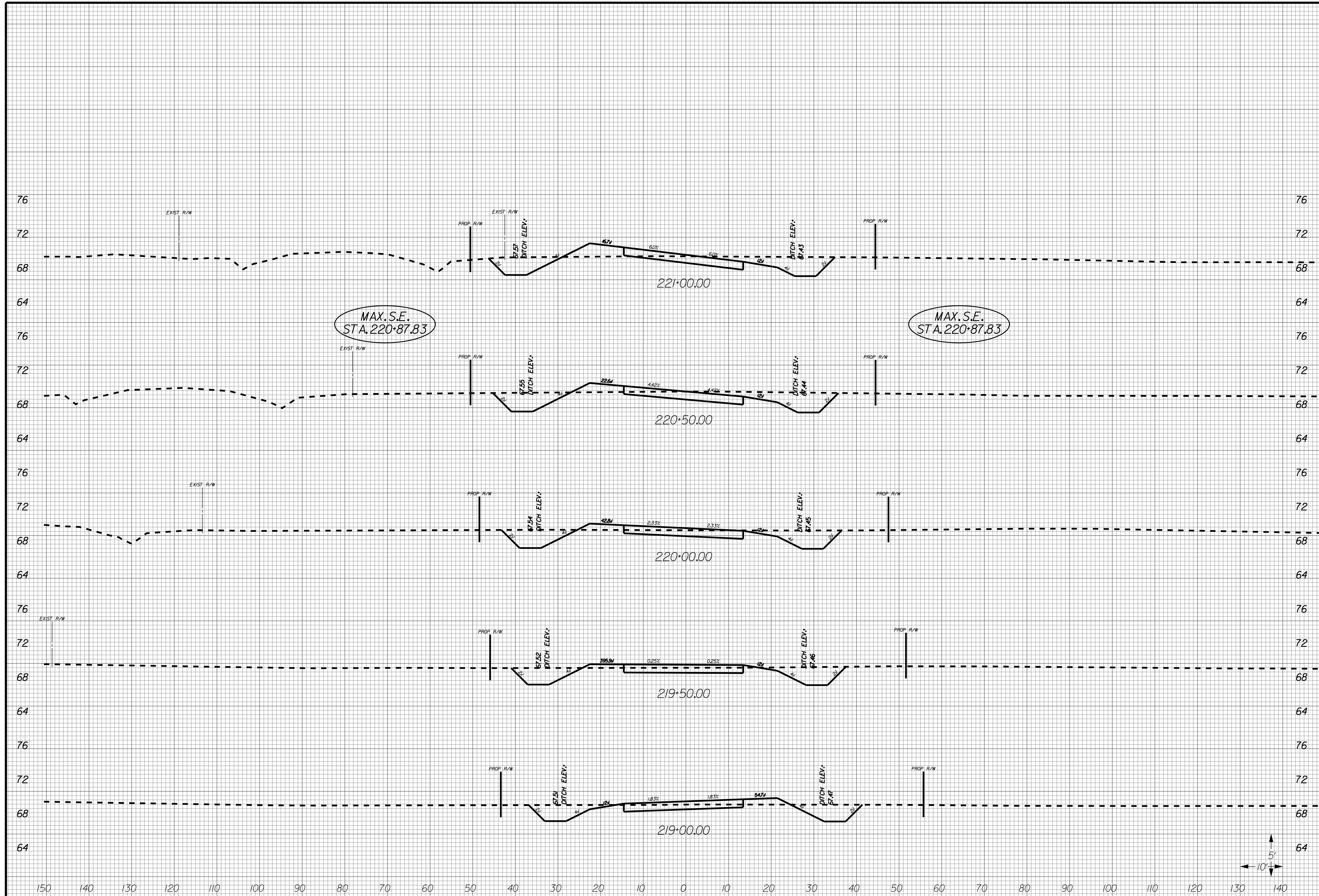
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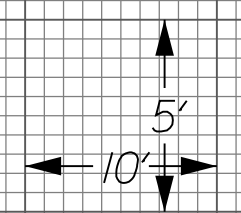
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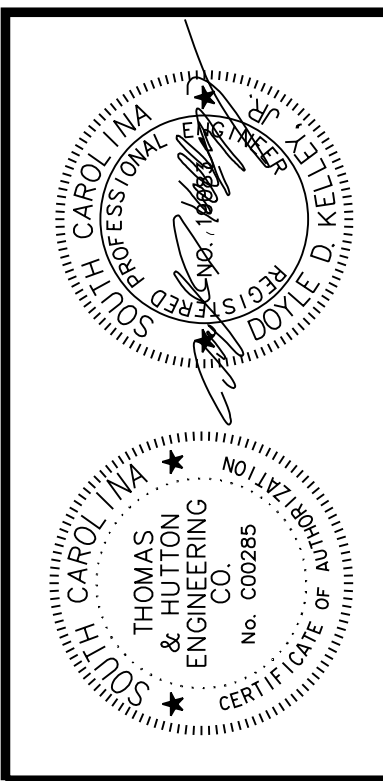
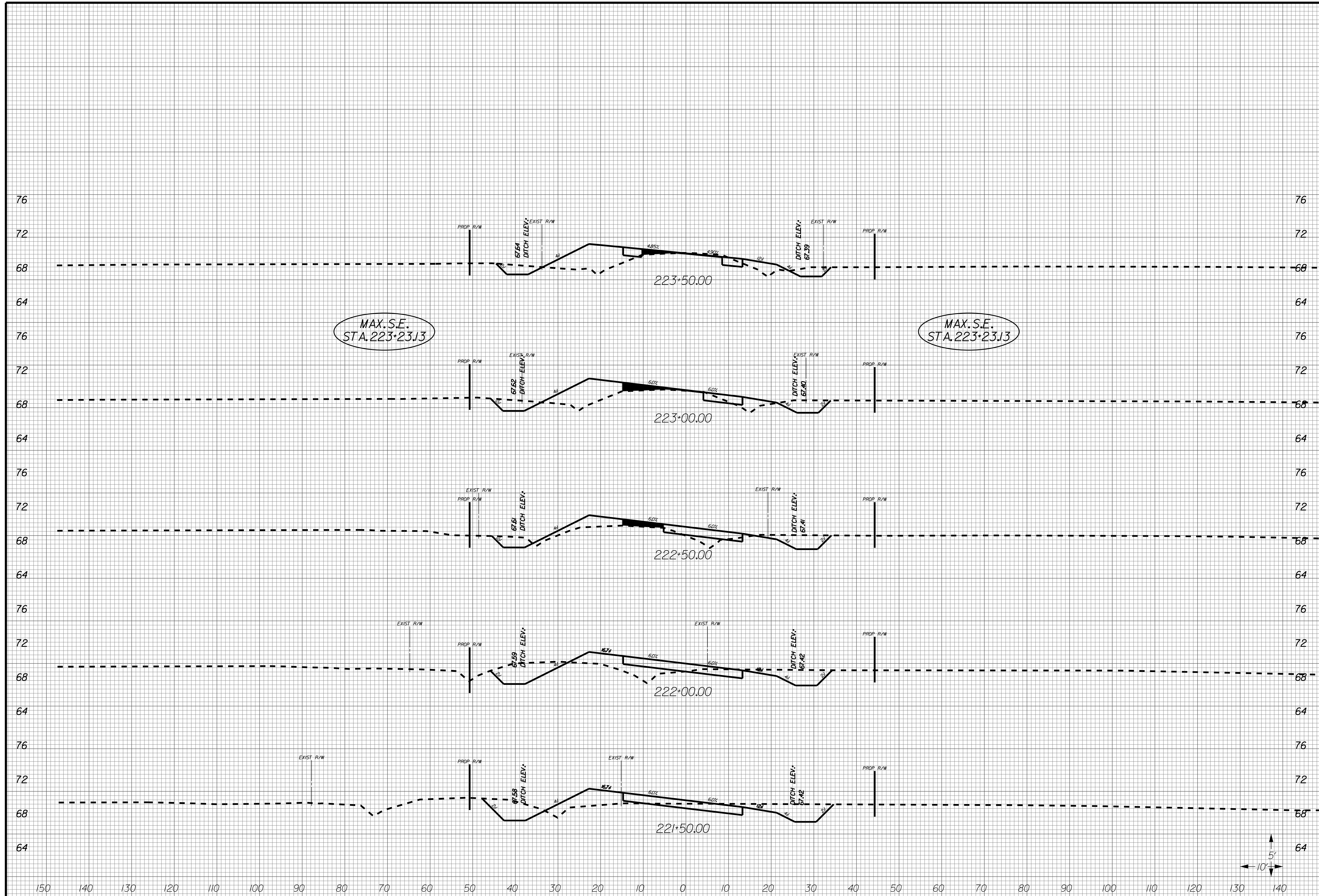
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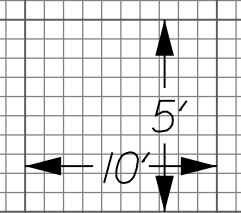
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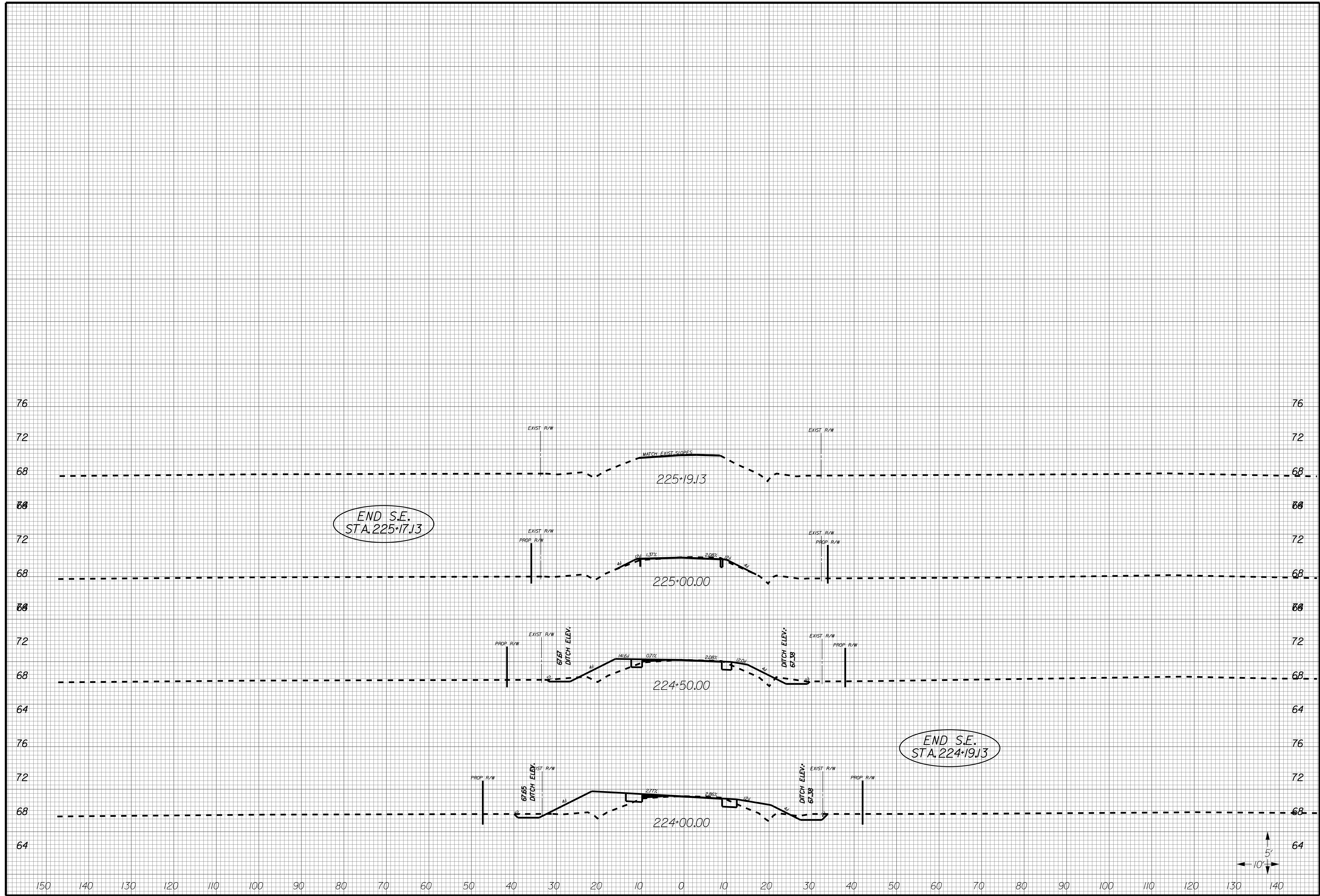
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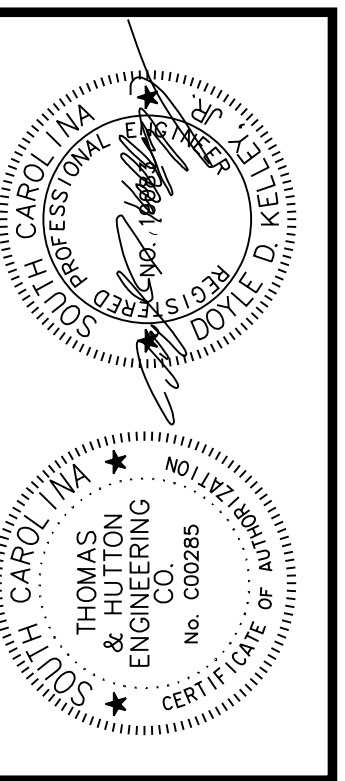
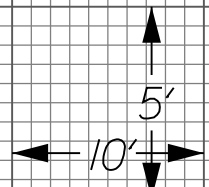
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END S.E.
STA. 225+17.13

END S.E.
STA. 224+19.13



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