

虎林市林草局 2024 年超级产粮大县和产油大县  
奖励资金项目（月牙湖养护站农田路维修）

# 施工图设计

第一册 共一册

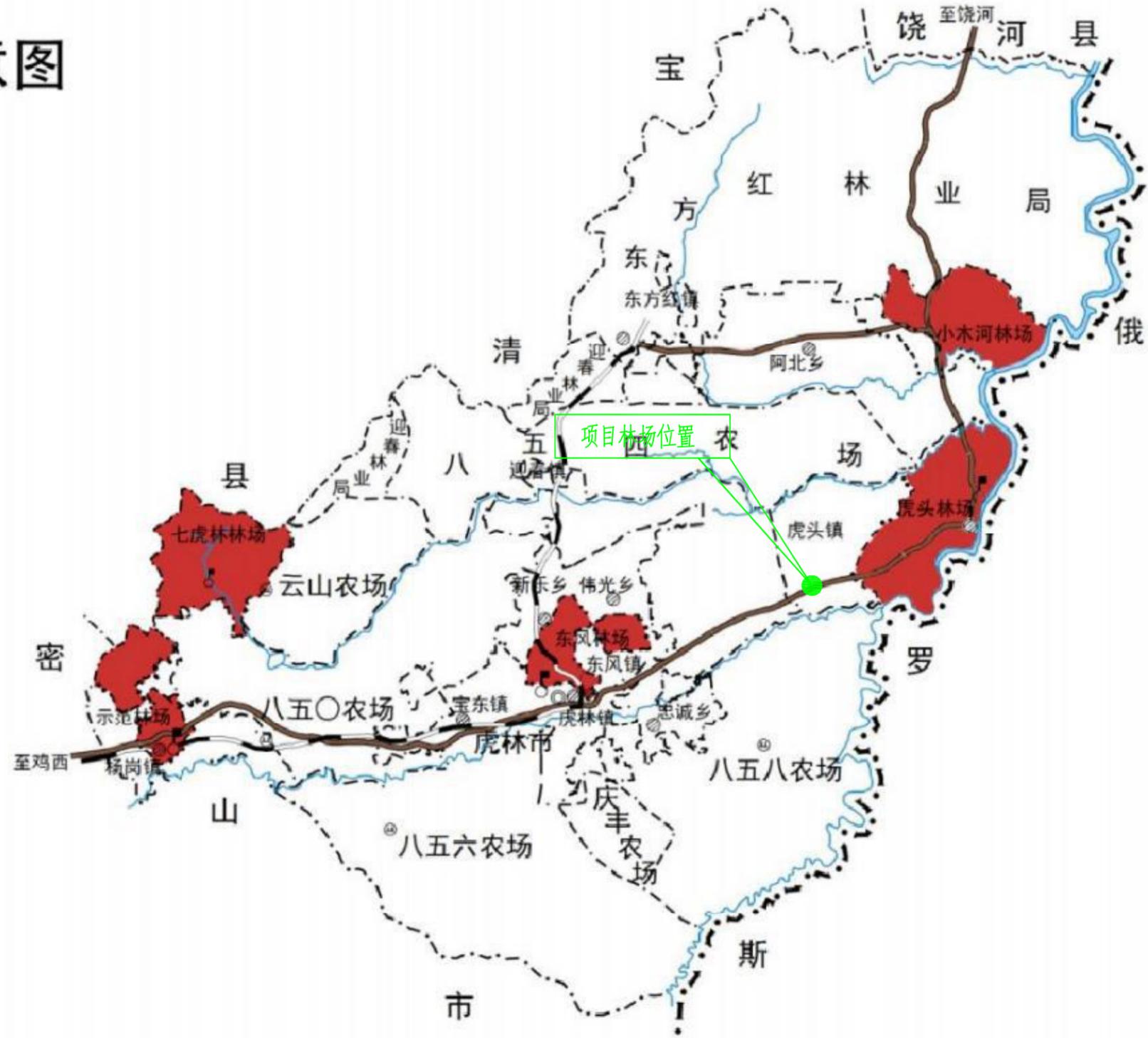
中享设计集团有限公司

二〇二四年三月



# 黑龙江省虎林市林场

## 位置示意图



# 说 明

## 一、任务依据及测设经过

2024年3月，我公司接受虎林市林草局的委托后，立即成立项目组，对虎林市林草局2024年超级产粮大县和产油大县奖励资金项目（月牙湖养护站农田路维修）原路全线进行了联合踏查，对项目所在地区自然环境、经济发展状况、综合运输状况、公路网规划、沿线城镇规划等资料进行收集，对工程地质资料进行收集整理，并征求建设单位的意见。2024年3月进入施工图设计阶段。

### 1、勘测依据

- (1) 《林区公路工程勘察规范》（LYJ 105-1986）
- (2) 《林区公路工程测量规范》（LYJ 115-1987）

### 2、设计依据

- (1) 《林区公路设计规范》（LY/T 5005-2014）；
- (2) 《林区桥梁技术鉴定规范》（LY 5204-1993）；
- (3) 《林区公路桥涵设计规范》（LYJ 106-1990）；
- (4) 《林区公路路线设计规范》（LYJ 113-1992）；
- (5) 《林区公路路基设计规范》（LYJ 114-1992）；
- (6) 《林区公路路面设计规范》（LYJ 131-1992）；
- (7) 《林区公路工程技术标准》（LYJ 5104-1998）；

### 3、设计标准

根据月牙湖养护站原有旧路情况，并结合标准要求，本次设计标准为：

- (1) 路面设计类型：砂石路
- (2) 路面宽度：全等形路面 3.5m

### 4、旧路情况

原旧路为 3.5m 宽土路，大多路段修建年限较早，路基状况良好。由于后

期养护不及时，道路两侧灌木丛生，为林场生产生活的出行增添了诸多不便和阻碍。

因此，加速本项目的实施，使当地改善道路运营条件，提高其通行能力是十分迫切的，也是十分必要的。

## 二、沿线地形、地质、地震、气候、水文等自然地理及其与公路建设的关系

**山脉：**以丘陵漫岗为主，多呈孤山残丘状分布，大部分海拔 120—180 米，最高峰为石青山，海拔高度 329.7 米。境内山势平缓，大部分坡度在 8—12 度。

**水系：**境内水源较为匮乏，仅有 4 条间歇性穆棱河支流经穆棱河流入乌苏里江。

**气候：**属中温带大陆性季风气候。冬季漫长、严寒干燥，夏季短促、温热多雨，春季多风、易旱易涝，秋季多雨、降温迅速。初霜在 9 月下旬，终霜在 5 月中旬，无霜期 134 天。全年平均气温 2.7℃，最高气温 35.3℃，最低气温 -37℃，结冰期长达 5 个多月。平均积温 2480℃，日照时数 2500 小时，年降水量 590 毫米。

**土壤：**分 6 个土类，17 个亚类。土壤分布随海拔高度不同呈有规律变化。海拔 80 米以下的低洼地到河岸平坦地分布的土壤依次为沼泽土——草甸土——草甸暗棕壤——潜育暗棕壤——白浆土；海拔 100 米以上的山地分布的土壤为暗棕壤、白浆化暗棕壤及典型暗棕壤。

**植被：**属于完达山植物区系。主要乔木树种有柞树、椴树、杨树、柳树、白桦、枫桦、榆树、水曲柳、胡桃楸、黄波罗、红松、落叶松、樟子松等，亚乔木、灌木和草本植物主要以榛子、胡枝子、忍冬、暴马子、小叶樟、塔头苔草、三棱草为主。其中，中草药有刺五加、五味子、桔梗、龙胆草等；山野菜有薇菜、蕨菜、刺嫩芽、黄花菜等；菌类有榆黄蘑、元蘑、榛蘑等。

**野生动物：**主要有松鼠、黄鼬、狐狸、狼、山鸡、野鸭、野兔等。

## 三、筑路材料要求

级配风化料：风化料采用当地取土场的地产材料。材料要求应坚硬、清洁、干燥、无杂质，具有适当的级配，且压实度为密实结构，不得含有严重风化变颗粒或腐殖较多的土。

水：水应清洁无污染，并按施工规范规定控制硫酸盐含量、含盐量以及 PH 值。

山皮石面层应均匀压实，路面压实度要求达到≥95%。对路床顶面以下深度应满足：0~0.3m 压实度≥94%，0~0.8m 压实度≥94%，0.8~1.5m 压实度≥93%，>1.5m 压实度≥90%。

天然材料的推荐级配范围见下表：

筛孔尺寸 (mm)	53	37.5	9.5	4.75	0.6	0.075
通过质量百分率 (%)	100	80~100	40~100	25~85	8~45	0~15

液限宜不大于 28%。塑性指数宜小于 9。

#### 四、新技术、新设备、新工艺的采用和计算机应用等情况

在路线测设过程中采用了 GPS-RTK 高精度仪器，内业设计采用计算机辅助设计，设计图纸均由计算机辅助完成。

#### 五、线路起终点及工程概况

##### 1、线路起终点

本项目道路铺设均按照原有旧路路线走向进行设计，不进行改线处理。

##### 2、工程概况

虎林市林草局 2024 年超级产粮大县和产油大县奖励资金项目（月牙湖养护站农田路维修）修建砂石路 12.800 公里，修建圆管涵 4 座。

主要建设内容如下表：

序号	所属林场	路名	长度 (m)	宽度 (m)	涵洞 (座)	备注
1	月牙湖养护站	1 号道	929	3.5		
2	月牙湖养护站	2 号道	787	3.5		
3	月牙湖养护站	3 号道	608	3.5		
4	月牙湖养护站	4 号道	827	3.5		
5	月牙湖养护站	5 号道	2479	3.5	1	
6	月牙湖养护站	6 号道	414	3.5		
7	月牙湖养护站	7 号道	410	3.5		
8	月牙湖养护站	8 号道	901	3.5	1	
9	月牙湖养护站	9 号道	431	3.5		
10	月牙湖养护站	10 号道	511	3.5		
11	月牙湖养护站	11 号道 1	236	3.5	1	
12	月牙湖养护站	11 号道 2	126	3.5	1	
13	月牙湖养护站	12 号道	513	3.5		
14	月牙湖养护站	13 号道	208	3.5		
15	月牙湖养护站	14 号道	74	3.5		
16	月牙湖养护站	加 1 号道	218	3.5		
17	月牙湖养护站	加 2 号道	348	3.5		
18	月牙湖养护站	加 3 号道	346	3.5		
19	月牙湖养护站	加 4 号道	127	3.5		
20	月牙湖养护站	加 5 号道	655	3.5		
21	月牙湖养护站	加 6 号道	52	3.5		
22	月牙湖养护站	加 7 号道	154	3.5		
23	月牙湖养护站	加 8 号道	48	3.5		
24	月牙湖养护站	加 9 号道	105	3.5		
25	月牙湖养护站	加 10 号道	56	3.5		
26	月牙湖养护站	加 1—生产路	153	3.5		
27	月牙湖养护站	加 2—生产路	471	3.5		
28	月牙湖养护站	加 3—生产路	21	3.5		
29	月牙湖养护站	加 4—生产路	159	3.5		
30	月牙湖养护站	加 5—生产路	358	3.5		
31	月牙湖养护站	加 6—生产路	75	3.5		

序号	所属林场	路名	长度 (m)	宽度 (m)	涵洞 (座)	备注
合计			12800		4	

## 六、路基横断面布置

本项目设计长度为 12800m。路面宽度为 3.5m，路拱采用单向横坡，坡度为 2.0%。本项目采用全等形断面。

路基的设计洪水频率为 1/15。填方路基边坡率为 1:1.5。

## 七、路基压实标准与压实度

根据《林区公路路基设计规范》(LYJ114-1992) 要求，本项目路基压实标准采用重型击实标准。

填料应用部位	路槽底面以下深度 (cm)	填料最小 CBR 值	压实度 (%)
填方	0~80	5	>93
	80 以下	3	>90
零填及挖方路基	0~30	5	>93

注：表列数值系以重型击实试验法求得的最大干密度的压实度为准。

## 八、路基、路面排水工程设计

路面排水在非超高路段主要由路拱横坡与路线纵坡在其表面自然排出道路两侧边沟。路基填筑材料优先利用路基挖方，其次采用就近取土。

## 九、路面设计

### 1、设计原则：

由于本项目为林场道路，依据原有旧路情况、使用要求以及自然条件，并遵循因地制宜、合理选材、方便施工的原则，进行路面结构的组合设计。

### 2、设计依据：

《林区公路工程技术标准》(LYJ 5104-1998)

《林区公路路面设计规范》(LYJ 131-1992)

《林区公路设计规范》(LY/T 5005-2014)

### 3、路面结构组合设计

行车道结构组合如下：

30cm 山皮石

路面具体结构型式及路段见《路面结构图》及《路面工程数量表》。

## 十、桥涵设计

本项目新建圆管涵 4 座。涵底结构为铺砂砾垫层，成品钢筋混凝土 II 级涵管，涵底回填砂砾，涵两侧和涵顶回填普通土，路面结构与道路结构一致，涵底流水面必须保证与原有排水方向及坡度的一致性。

## 十一、平面交叉设计

施工图阶段共设置平面交叉 29 处。施工图设计中交叉口设计按加铺转角设计，转角半径 5m。各平交道口的交角、视距及被交叉道纵坡等指标均满足规范要求。

## 十二、施工方法及注意事项

### (一) 路基工程

本项目为对旧路进行刮平碾压，填筑路基土，然后填筑山皮石，对其挖掘、运输、摊平、压实适于全部机械化施工。

### (二) 路面工程

根据测量位置和标高，初步拟定松铺厚度为 40cm，实际松铺厚度可根据试压段和实际施工情况进行调节，山皮石压实厚度 30cm。摊铺的山皮石级配分布应均匀一致，无明显颗粒分离现象，严禁用四齿耙拉平料堆，造成粗细料局部集中。

#### 1、摊平经下列三个过程：

(1) 粗平：中线位置的用平地机进行粗平，配备 5 人挑除超粒径的骨料，平地机至少粗平两次。

(2) 复平：平地机按测量放线进行复平，并找出路拱横坡度，每侧配备 5 人配合平地机整平，对平地机无法碾压的表面或死角，要人工进行找铺，作到

表面无外露骨料，平地机至少平整 3 次为妥。并伴随着压路机碾压。

(3) 精平：在复平完成后进行精平，精平主要由人工带线刮平，刮平后以细料填隙找平坑槽，最后再用平地机平整一次。并伴随着压路机碾压。

2、山皮石碾压精平后即开始碾压，碾压分为三步进行，即初压，复压和终压。

(1) 初压：初压采用 15T 振动压路机静压方法碾压两遍，碾压速度不超过 4km/h，在圆弧段，半径较大处，可采用从底向高处碾压，即从辅道边向中心线碾压。纵向进退进行，横向接头对振动压路机一般重叠 0.4—0.5m，初压两遍后表面浮石被压平。初压后检查平整度、路拱，必要时予以适当修整。压路机启动、停止必须减速缓慢进行。

(2) 复压：复压紧接在初压后进行，复压采用 15t 振动压路机静压三遍，压路机先慢后快，复压时压路机碾压速度不超过 5km/h，碾压三遍过后表面轮迹减轻。

(3) 终压：终压紧接在复压后进行，终压采用 18T 光轮压路机进行碾压，碾压遍数为三遍，光轮压路机一般重叠后轮宽的 1/2，前后相邻两区段（碾压区段之前的平整预压区段与其后的检验区段）宜纵向重叠 1.0—1.5m。应达到无漏压、无死角，确保碾压均匀。终压碾压过后表面无轮迹，坚实平整。

碾压前对填筑层的分层厚度和大致平整程度应进行检查，确认层厚和平整程度符合要求方能进行碾压。压实度检测合格后，可转入下道工序，不合格的应进行补压后再做检查，一直达到合格为止。压路机行走先两边后中间，曲线段先内侧后外侧，相邻两行碾压轮迹至少重叠 40cm，保证不漏压。

### 3、施工注意事项

(1) 在填料山皮石碾压过程中，要保证全幅全面碾压到位，不得漏压，确保压实无盲区，山皮石无明显的外露骨料，表面平整坚实。

(2) 山皮石的骨料颗粒尺寸，应严格控制，对超过碾压层 2/3 的骨料禁止使

用。

(3) 碾压机械型号应满足压实度的要求，保证碾压质量。

(4) 碾压前应对山皮石填料进行严格检查，应使骨料分布均匀，骨料间的空隙应用细料填充。

(5) 填料的含水量应符合最佳含水量范围的要求，才能达到最佳的碾压效果。

### (三) 圆管涵施工方法及注意事项

确定涵管位置和规格：根据设计图纸确定涵管的位置和规格，以及涵管的长度和直径。

准备工作：清理涵管周围的土壤和杂物，确保施工区域干净、整洁。

开挖沟槽：根据设计图纸，在涵管两侧开挖与涵管直径相适应的沟槽，沟槽的深度应该超过涵管底部的深度，并且沟槽的宽度应该略大于涵管直径。

安装基础：在沟槽底部铺设一层混凝土基础，以确保涵管的稳定和支撑。

安装涵管：将涵管放置在沟槽中，确保涵管的中心线与设计要求相符合，然后将涵管与基础固定。

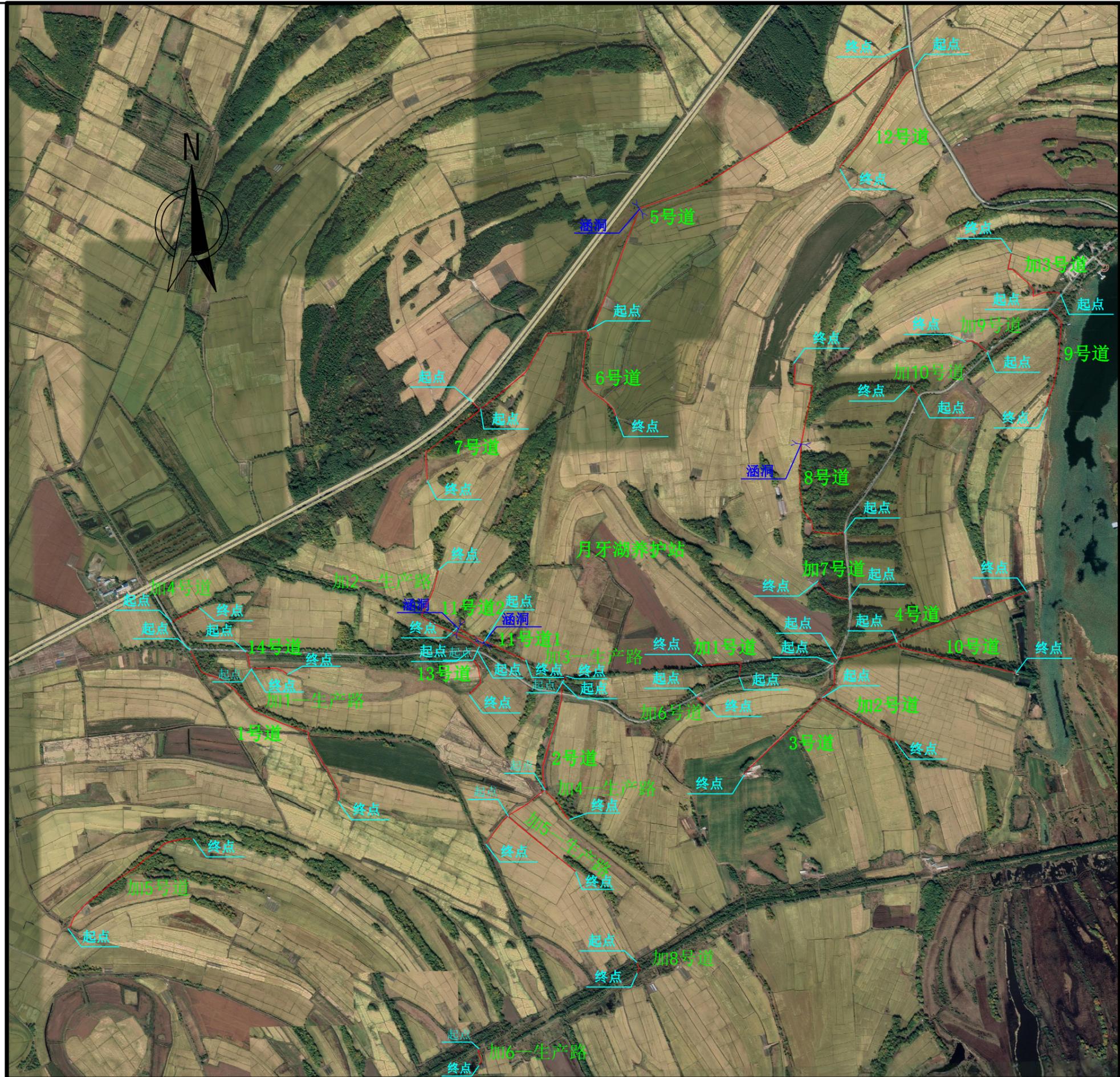
连接涵管：将涵管与进、出水口相连接，并进行密封处理，以确保涵管的密闭性。

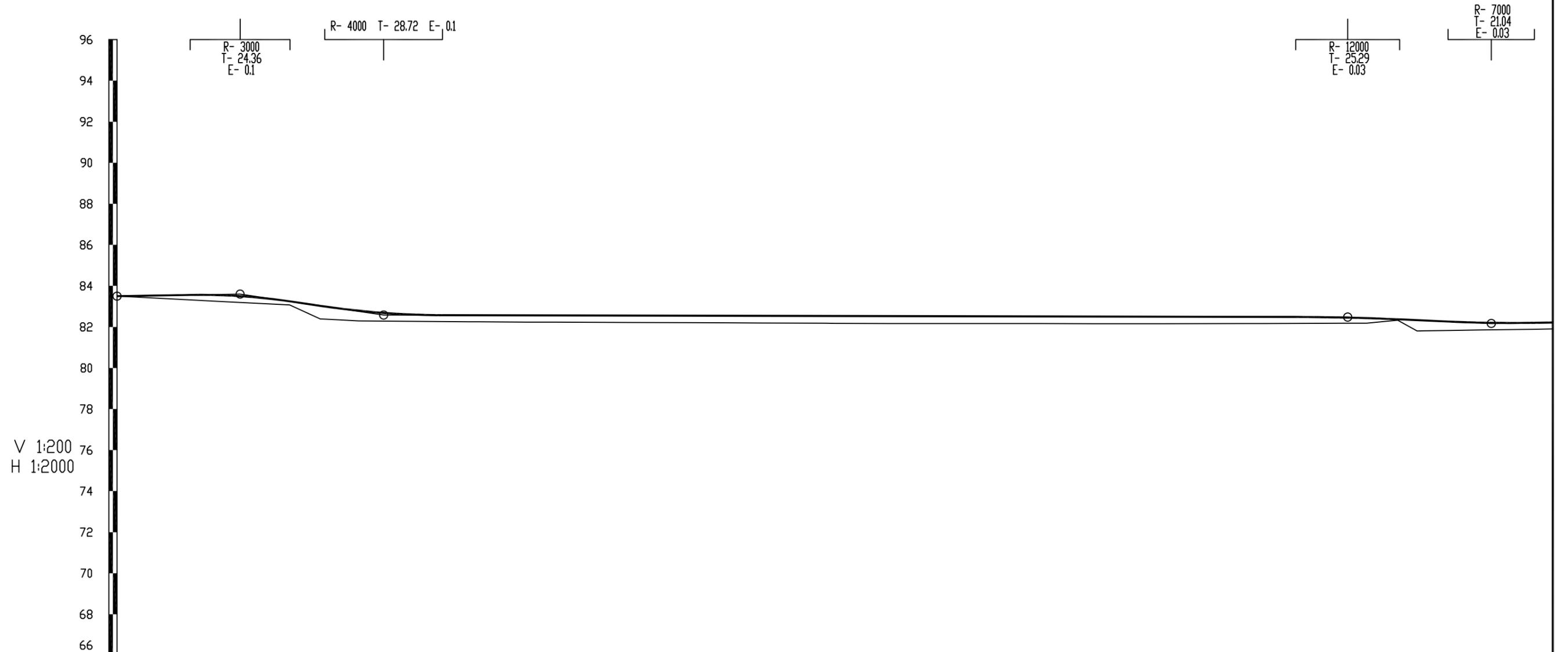
固定涵管：使用支架或其他固定材料将涵管固定在沟槽中，保证涵管的稳定性。

填充沟槽：将沟槽中的土壤逐步填充到涵管周围，同时进行压实，直至沟槽填满。

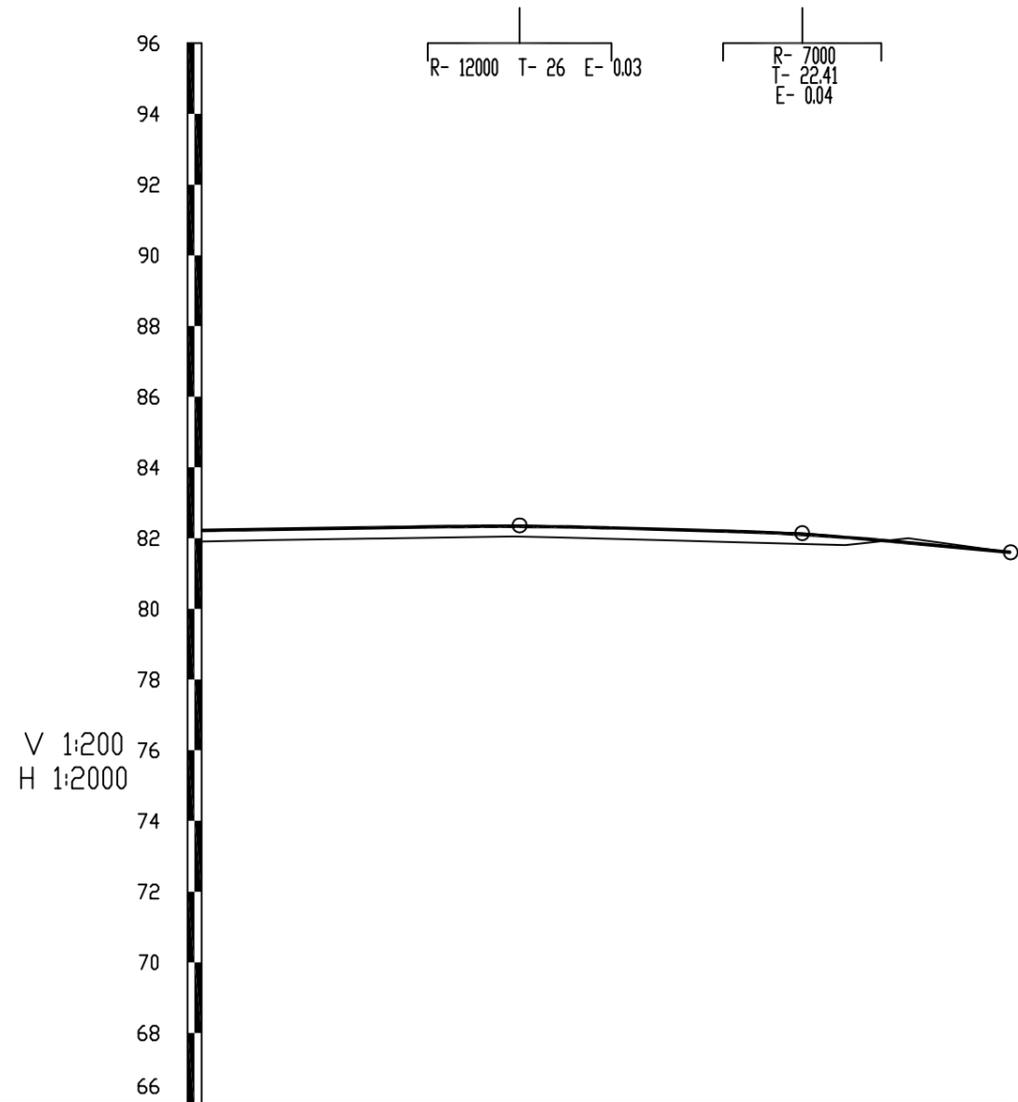
整平表面：在沟槽填满土壤后，对涵管上方的土壤进行整平，并进行压实。

竣工验收：完成施工后，进行竣工验收，并进行相关记录和档案管理。

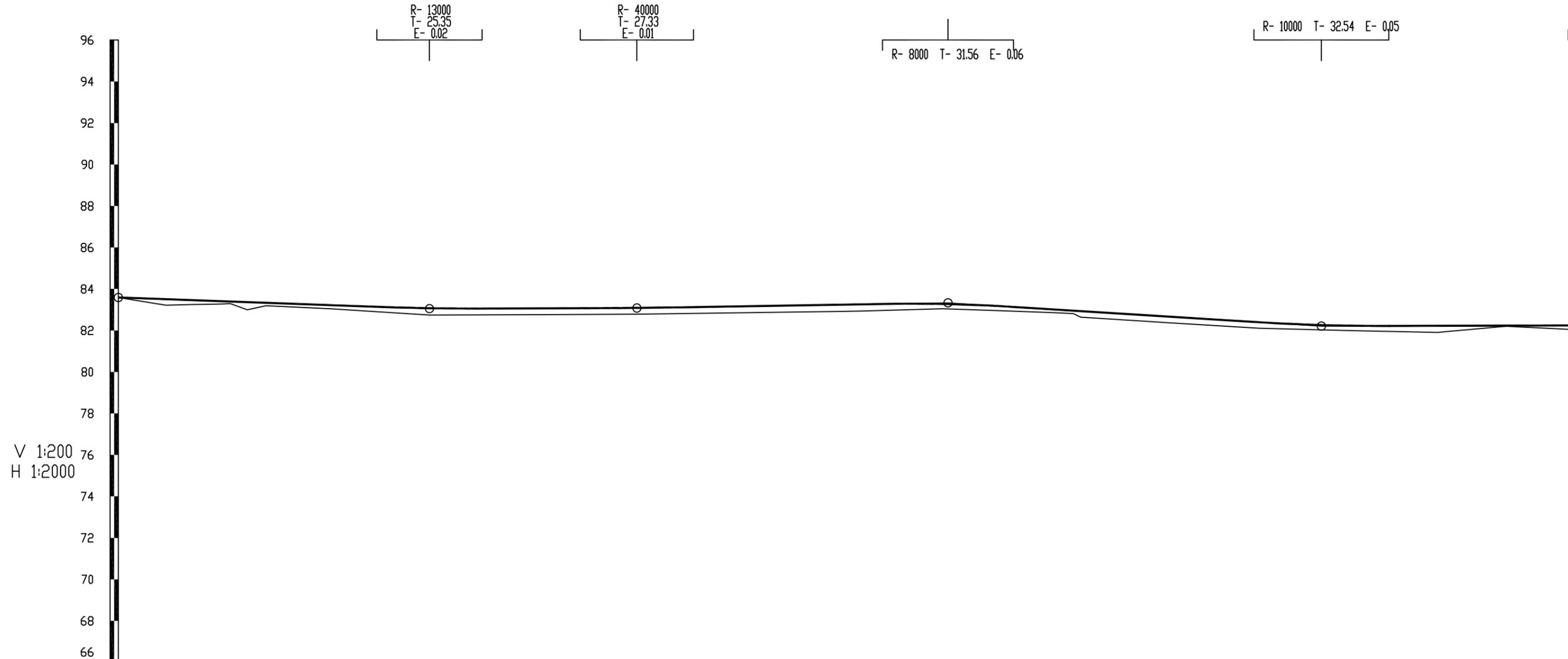




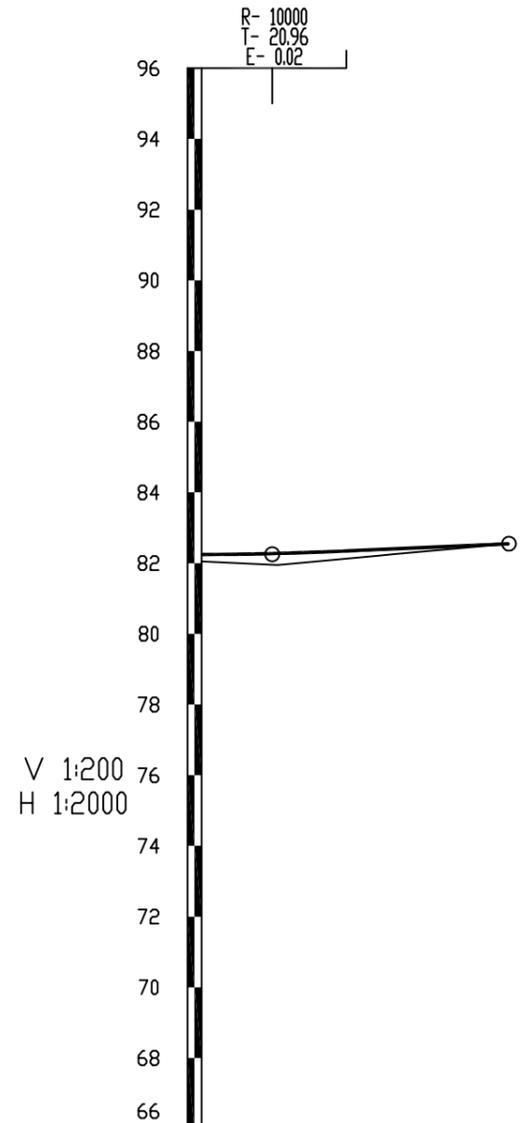
地质概况	原有旧路																																							
坡度(%)坡长(m)	0.00	0.17	60.00	0.31	0.60	83.60	70.00	-1.46	0.50	0.56	0.64	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.35	0.35	0.34	0.34	0.35	0.34	0.34	0.32	0.32	0.27	0.25	0.04	0.53	0.43	0.36	0.36	30.00(12.00)	0.31	
填挖高度(m)	0.00	0.28	0.31	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
设计高程(m)	83.50	83.56	83.55	83.25	83.02	82.90	82.79	82.59	82.57	82.56	82.55	82.55	82.54	82.54	82.53	82.53	82.53	82.52	82.52	82.51	82.51	82.51	82.50	82.50	82.49	82.49	82.45	82.43	82.37	82.33	82.26	82.21	82.21	82.21	82.21	82.21	82.21	82.21	82.21	
地面高程(m)	83.50	83.28	83.24	83.07	82.99	82.94	82.79	82.27	82.25	82.24	82.23	82.22	82.21	82.20	82.19	82.18	82.18	82.17	82.17	82.17	82.17	82.16	82.16	82.16	82.17	82.17	82.18	82.18	82.33	81.80	81.83	81.85	81.89	81.89	81.91	81.91	81.91	81.91	81.91	
里程桩号	K0+000	+042.079	+050	+084.158	+099.131	+108.476	+117.735	+150	+171.512	-2	+213.635	+250	+282.300	-3	+313.614	+344.948	+350	+376.283	-4	+409.508	+442.700	+450	+475.906	-5	+509.113	+550	+559.164	+609.216	+624.390	+633.823	+650	+664.389	+692.388	K0+700	K0+700	K0+700	K0+700			



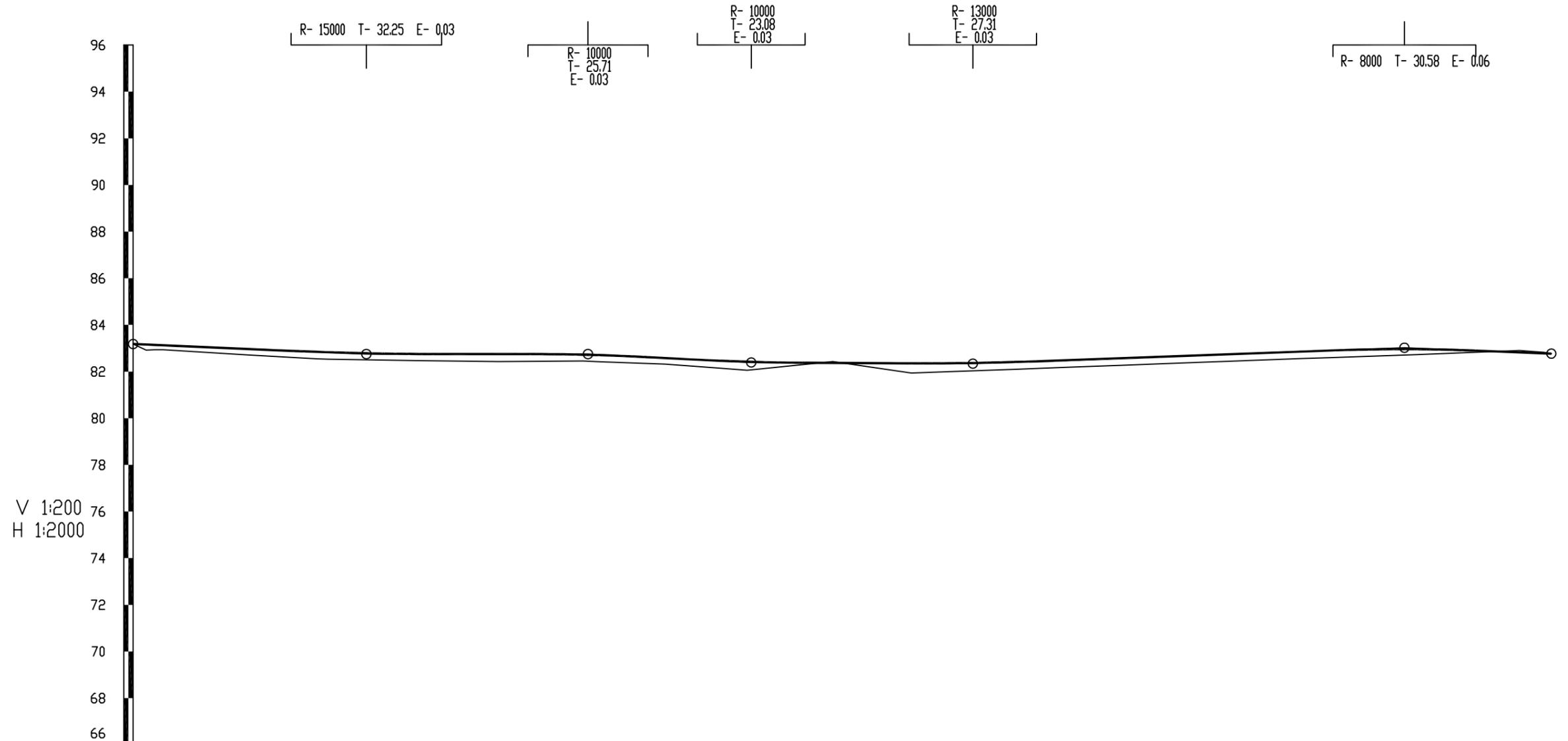
地质概况	原有旧路										
坡度(%)坡长(m)	0.16		+790		-0.27		+870		-0.92		
填挖高度(m)	0.31	0.30	0.30	0.28	0.30	0.31	0.31	0.22	0.10	-0.05	
设计高程(m)	82.22	82.25	82.29	82.33	82.32	82.24	82.19	82.02	81.97	81.91	
地面高程(m)	81.91	81.95	81.99	82.05	82.02	81.93	81.89	81.80	81.87	81.84	
里程桩号	K0+700	+720.365	+748.357	+788.363	-8	+835.256	+850	+882.152	+888.618	+894.599	-9



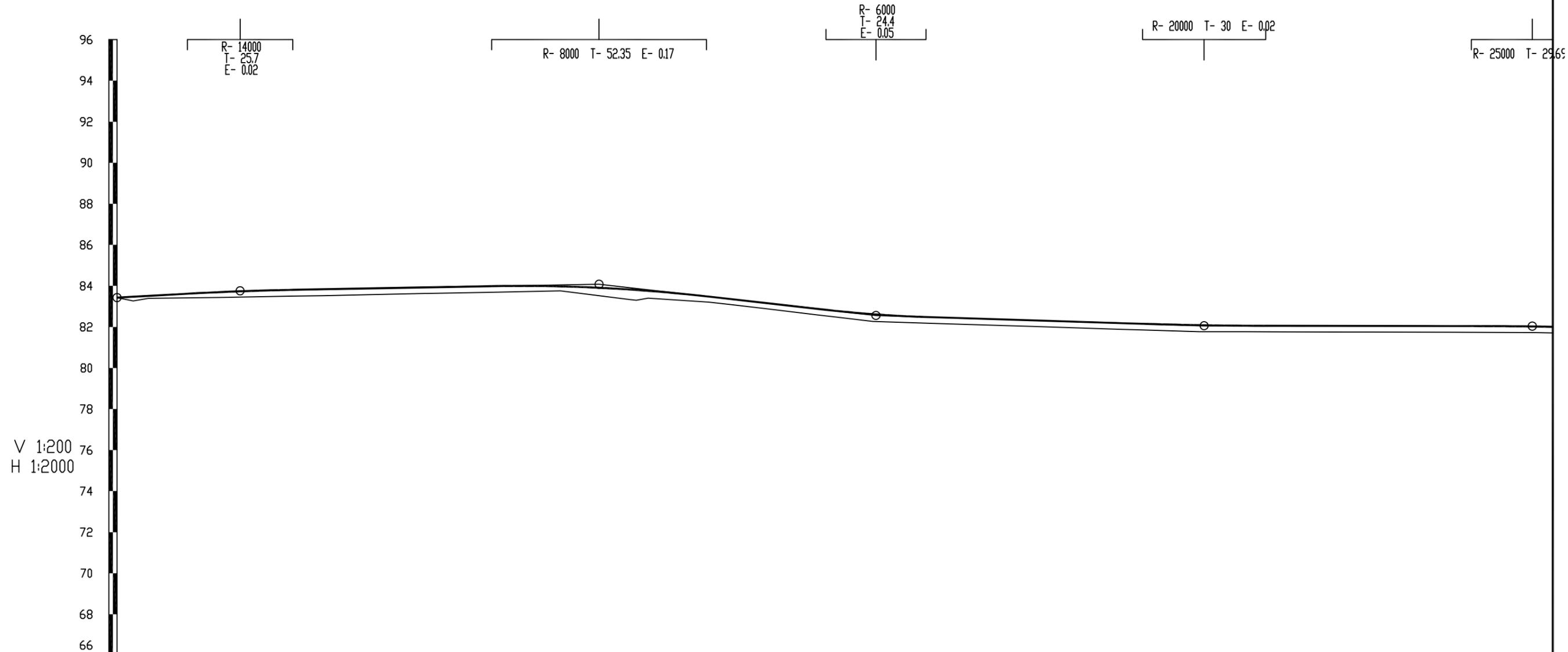
地质概况	原有旧路																														
坡度(%)坡长(m)	83.59	-0.36				83.05	0.03		83.08	0.17			83.33	-0.62				82.21	0.03		82.21										
填挖高度(m)	0.00	0.29	0.21	0.15	0.11	0.37	0.14	0.17	0.33	0.31	100.00	0.30	0.31	0.31	0.32	0.33	0.22	0.16	0.14	180.00	0.30	0.30	0.29	0.23	0.24	0.23	0.28	0.20	0.06	0.17	
设计高程(m)	83.59	83.51	83.46	83.42	83.40	83.37	83.33	83.23	83.07	83.07	83.07	83.09	83.10	83.16	83.17	83.25	83.26	83.27	83.17	83.02	82.95	82.71	82.67	82.40	82.23	82.22	82.23	82.23	82.23		
地面高程(m)	83.59	83.22	83.25	83.27	83.29	83.00	83.19	83.06	82.74	82.76	82.79	82.79	82.85	82.86	82.92	82.93	82.95	82.95	82.95	82.86	82.81	82.41	82.37	82.11	82.00	81.98	81.99	81.95	82.03	82.17	
里程桩号	K0+000	+022.969	+035.788	+046.980	+054.068	+062.138	+071.127	-1	+150	-2	+250	+257.242	-3	+305.834	+350	+358.591	-4	+397.557	+424.873	+450	+460.412	-5	+506.417	+550	+592.439	-6	+636.057	+641.332	+650	+665.823	+695.365



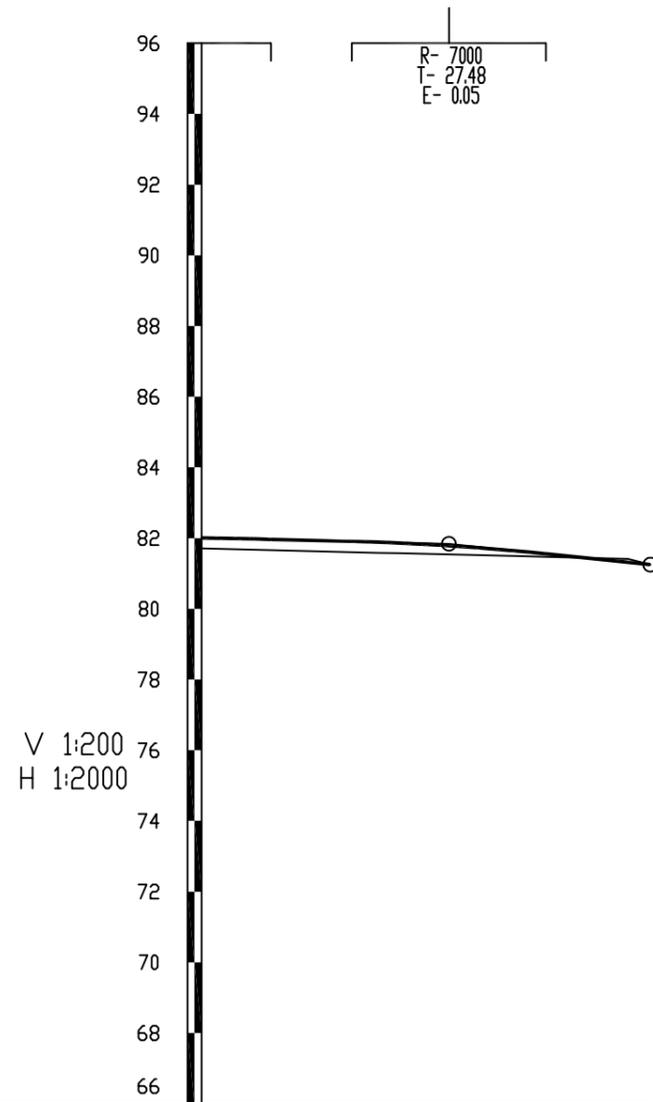
地质概况	原有旧路			
坡度(%)坡长(m)	0.03	20.00(720)	0.45	67.00
填挖高度(m)	0.20	0.33	0.17	0.00
设计高程(m)	82.24	82.28	82.38	82.55
地面高程(m)	82.05	81.95	82.21	82.55
里程桩号	K0+700	+721.479	+750	K0+787



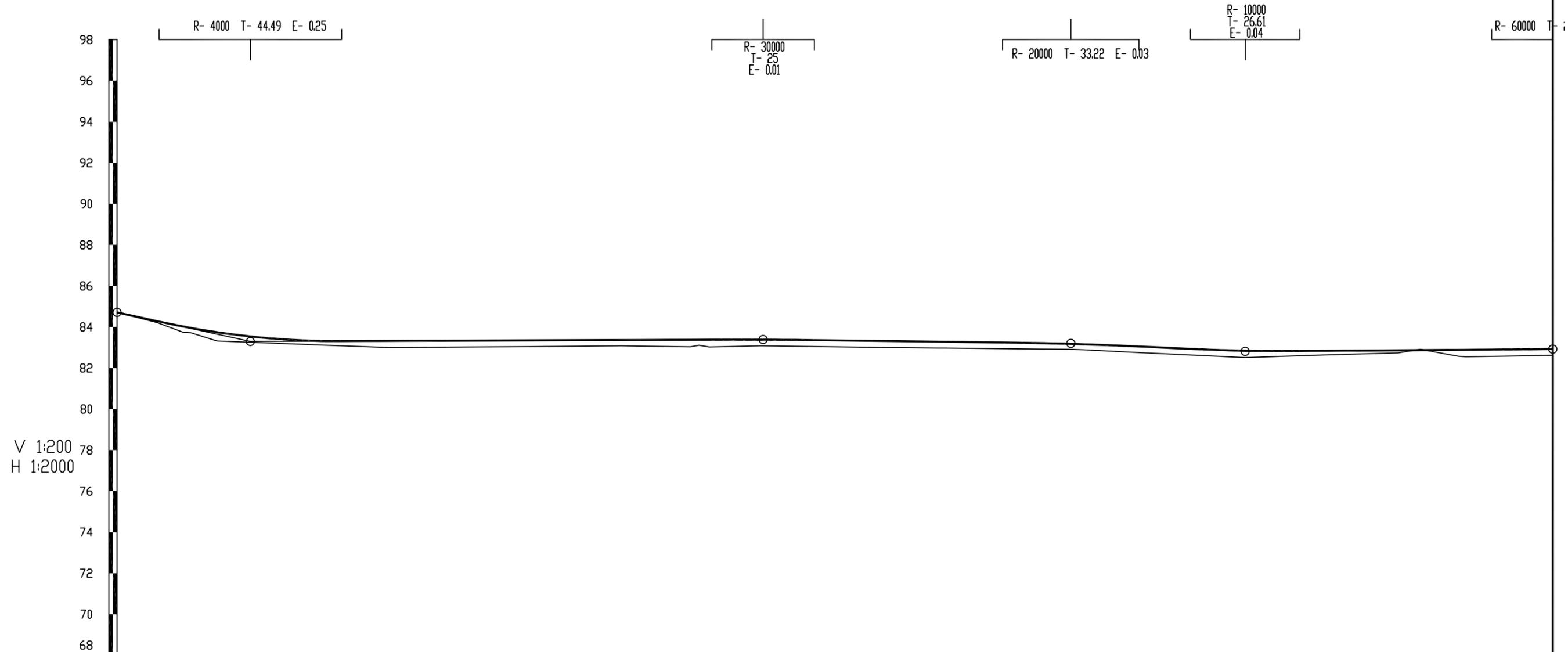
地质概况	原有旧路																													
坡度(%)坡长(m)	83.18	100.00	-0.43	+100	82.75	0.00	+195	82.75	-0.51	+265	82.39	-0.05	+360	82.34	0.37	185.00	+545	83.02	-0.40	82.77										
填挖高度(m)	0.24	0.18	0.25	0.30	0.30	0.28	0.28	0.31	0.32	0.27	0.28	0.26	0.31	0.36	-0.06	0.41	0.36	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.23	0.19	-0.08	-0.06	0.00
设计高程(m)	83.16	83.12	82.98	82.85	82.83	82.78	82.75	82.75	82.75	82.72	82.70	82.58	82.47	82.42	82.37	82.35	82.36	82.41	82.49	82.57	82.67	82.74	82.85	82.90	82.96	82.95	82.82	82.80	82.77	
地面高程(m)	82.98	82.94	82.73	82.55	82.53	82.50	82.47	82.44	82.43	82.45	82.42	82.32	82.16	82.06	82.43	81.94	82.00	82.10	82.18	82.27	82.37	82.44	82.55	82.60	82.73	82.76	82.90	82.86	82.77	
里程桩号	K0+000	+012.845	+045.742	+078.639	+083.942	-1	+120.463	+150	+156.608	+192.953	-2	+228.105	+250	+263.245	-3	+333.594	+350	+378.594	-4	+423.583	+450	+468.599	-5	+513.581	+550	+558.602	+594.362	-6	K0+608	



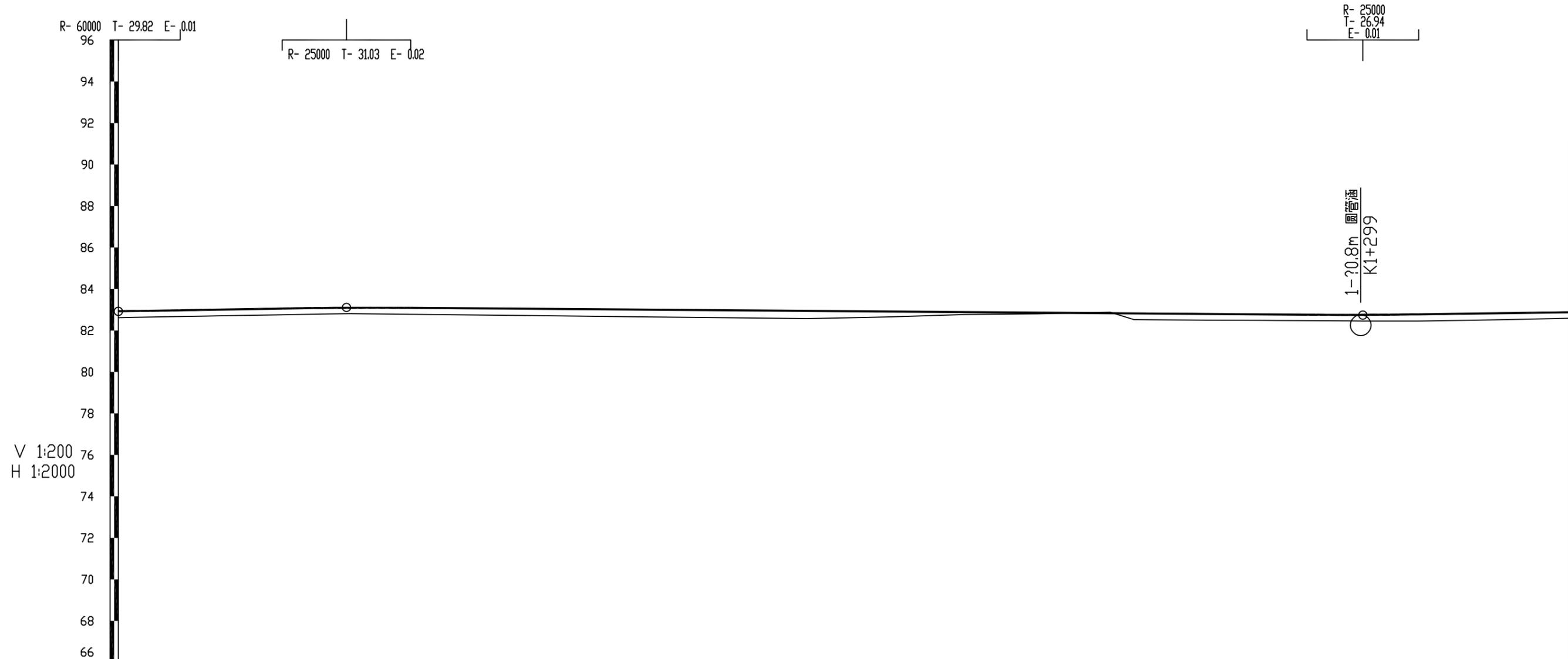
地质概况	原有旧路																				
坡度(%)坡长(m)	83.43	0.55	60.00	+0.60	83.76	0.18	175.00	+2.35	84.08	-1.13	135.00	+3.70	82.56	-0.31	160.00	+5.30	82.06	-0.01	160.00	+6.90	82.04
填挖高度(m)	0.00	0.12	0.26	0.31	0.31	0.31	0.30	0.30	0.27	0.22	0.48	0.36	0.27	0.28	0.30	0.30	0.35	0.30	0.30	0.30	0.29
设计高程(m)	83.43	83.51	83.70	83.81	83.83	83.87	83.92	83.99	84.00	83.98	83.82	83.76	83.48	83.35	83.18	82.88	82.79	82.62	82.47	82.44	82.31
地面高程(m)	83.43	83.39	83.44	83.50	83.53	83.56	83.63	83.69	83.73	83.76	83.34	83.40	83.21	83.08	82.90	82.58	82.49	82.27	82.17	82.14	82.01
里程桩号	K0+000	+015.338	+050	+086.563	+118.967	+150	+183.733	+216.149	+250	+258.898	+288.588	+315.200	+341.829	+350	+368.458	+408.256	+450	+487.853	+527.654	+550	+568.610
	K0+000	+015.338	+050	+086.563	+118.967	+150	+183.733	+216.149	+250	+258.898	+288.588	+315.200	+341.829	+350	+368.458	+408.256	+450	+487.853	+527.654	+550	+568.610



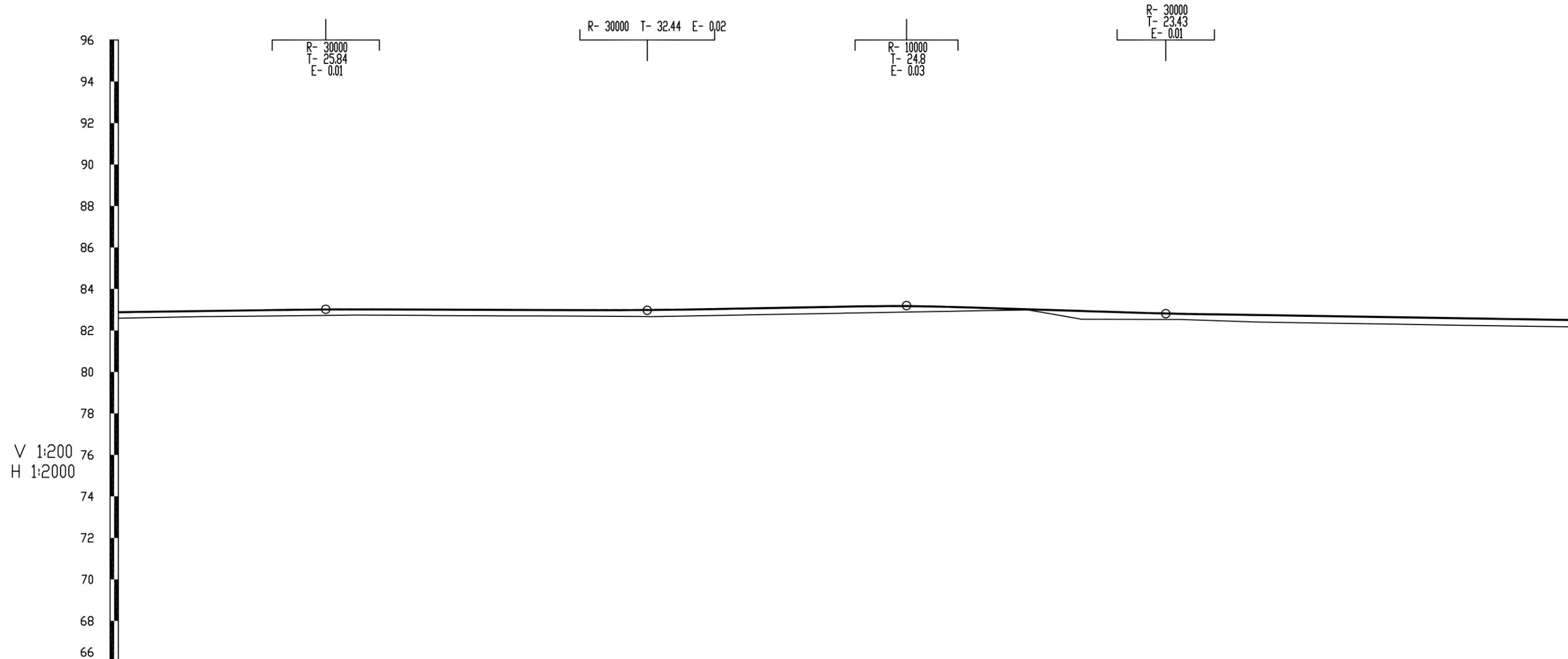
地质概况	原有旧路									
坡度(%)坡长(m)	-0.25 70.00(80.00)		+7.70 81.84		-1.04 57.00		-0.09 81.25			0.00
填挖高度(m)	0.30	0.31	0.30	0.29	0.13	0.06	-0.09	0.00	0.00	0.00
设计高程(m)	82.01	81.96	81.89	81.86	81.62	81.53	81.32	81.25	81.25	81.25
地面高程(m)	81.71	81.65	81.59	81.57	81.49	81.47	81.41	81.25	81.25	81.25
里程桩号	K0+700	+723.696	+750	+756.019	+790.998	-8	+820.706	K0+827		



地质概况	原有旧路																																	
坡度(%)坡长(m)	84.71	-2.18	+0.65	83.29	0.04	250.00	+3.15	83.39	-0.13	150.00	+4.65	83.20	-0.46	+5.50	82.81	0.07	150.00	82.92																
填挖高度(m)	0.00	0.07	0.28	0.43	0.19	0.20	0.33	0.32	0.31	0.30	0.30	0.28	0.35	0.35	0.33	0.30	0.31	0.32	0.31	0.30	0.29	0.26	0.27	0.29	0.30	0.34	0.21	0.18	0.13	-0.04	0.24	0.34	0.33	0.31
设计高程(m)	84.71	84.29	84.02	83.75	83.34	83.32	83.32	83.33	83.34	83.35	83.36	83.38	83.38	83.38	83.38	83.35	83.35	83.32	83.28	83.24	83.21	83.18	83.15	83.04	83.00	82.85	82.84	82.85	82.86	82.87	82.88	82.89	82.90	82.93
地面高程(m)	84.71	84.21	83.74	83.32	83.15	83.12	82.99	83.00	83.02	83.04	83.08	83.03	83.03	83.05	83.08	83.04	83.03	83.00	82.97	82.94	82.93	82.91	82.89	82.75	82.70	82.51	82.63	82.67	82.74	82.91	82.64	82.55	82.57	82.62
里程桩号	K0+000	+019.414	+032.400	+048.617	+091.758	+134.305	+150	+171.615	+208.936	+246.349	+279.498	+288.732	+313.763	+343.756	+350	+373.763	+433.770	+450	+463.689	+471.553	+508.884	+550	+588.188	+624.479	+635.425	+650	+657.197	+671.637	K0+700					

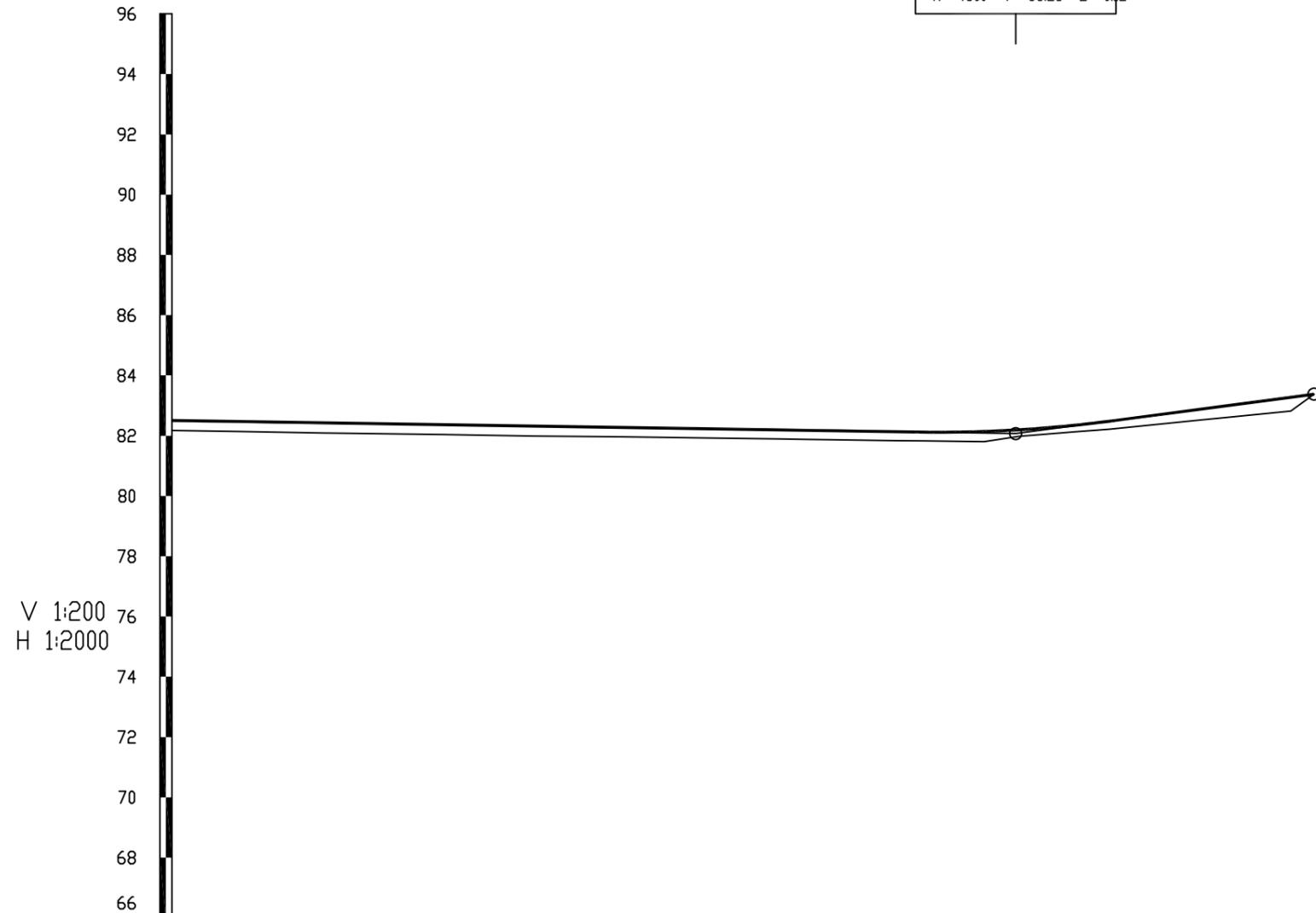


地质概况	原有旧路																															
坡度(%)坡长(m)	82.92	0.17		110.00		+810		83.11		-0.08										+300		0.14		82.74	100.00(200.00)							
填挖高度(m)	0.31	0.30	0.30	0.30	0.29	0.28	0.31	0.32	0.33	0.34	0.35	0.35	0.36	0.37	0.32	0.25	0.15	0.11	0.06	0.04	-0.05	0.30	0.30	0.30	0.29	0.29	0.29	0.30	0.33	0.32	0.32	0.29
设计高程(m)	82.98	82.99	83.01	83.05	83.08	83.09	83.08	83.07	83.04	83.03	83.00	82.98	82.97	82.94	82.93	82.91	82.89	82.88	82.86	82.85	82.83	82.82	82.82	82.80	82.78	82.77	82.75	82.75	82.78	82.81	82.84	82.88
地面高程(m)	82.63	82.69	82.70	82.75	82.79	82.81	82.77	82.75	82.71	82.69	82.66	82.63	82.61	82.57	82.61	82.66	82.74	82.77	82.80	82.82	82.88	82.52	82.51	82.50	82.49	82.48	82.46	82.46	82.45	82.49	82.52	82.59
里程桩号	K0+700	+741.643	+750	+776.644	+811.644	+850	+866.756	+921.863	+950	+976.972	K1	+032.082	+050	+073.230	+108.241	+143.242	+150	+178.243	+189.655	+224.123	+250	+258.553	+293.081	+327.543	+350	+369.082	K1+400					



地质概况	原有旧路																														
坡度(%)坡长(m)	0.14 100.00(200.00)		+500 83.02		-0.03 155.00				+655 82.97		0.18 125.00		+780 83.20		-0.31 125.00			+905 82.81		-0.16 195.00(475.00)											
填挖高度(m)	0.29	0.26	0.27	0.29	0.28	0.27	0.28	0.29	0.29	0.29	0.31	0.32	0.31	0.30	0.24	0.21	0.14	0.03	0.19	0.40	0.36	0.30	0.27	0.33	0.34	0.34	0.34	0.34	0.34	0.34	
设计高程(m)	82.88	82.93	82.95	82.99	83.01	83.01	83.00	82.99	82.99	82.98	82.98	82.99	83.05	83.14	83.17	83.15	83.14	83.09	83.02	82.98	82.94	82.90	82.83	82.80	82.74	82.69	82.66	82.64	82.58	82.53	
地面高程(m)	82.59	82.67	82.68	82.70	82.72	82.74	82.72	82.70	82.70	82.69	82.67	82.67	82.75	82.83	82.87	82.91	82.92	82.95	82.99	82.79	82.54	82.54	82.53	82.53	82.41	82.35	82.32	82.30	82.24	82.19	82.17
里程桩号	K1+400	+439.264	+450	+477.252	+500	+515.278	+550	+587.062	+600	+622.064	+650	+657.066	+700	+747.815	+770.507	+793.184	+800	+815.888	+838.592	+850	+864.490	+877.039	+900	+912.034	+947.038	+981.996	+1000	+1017.034	+1050	+1087.035	K2+100

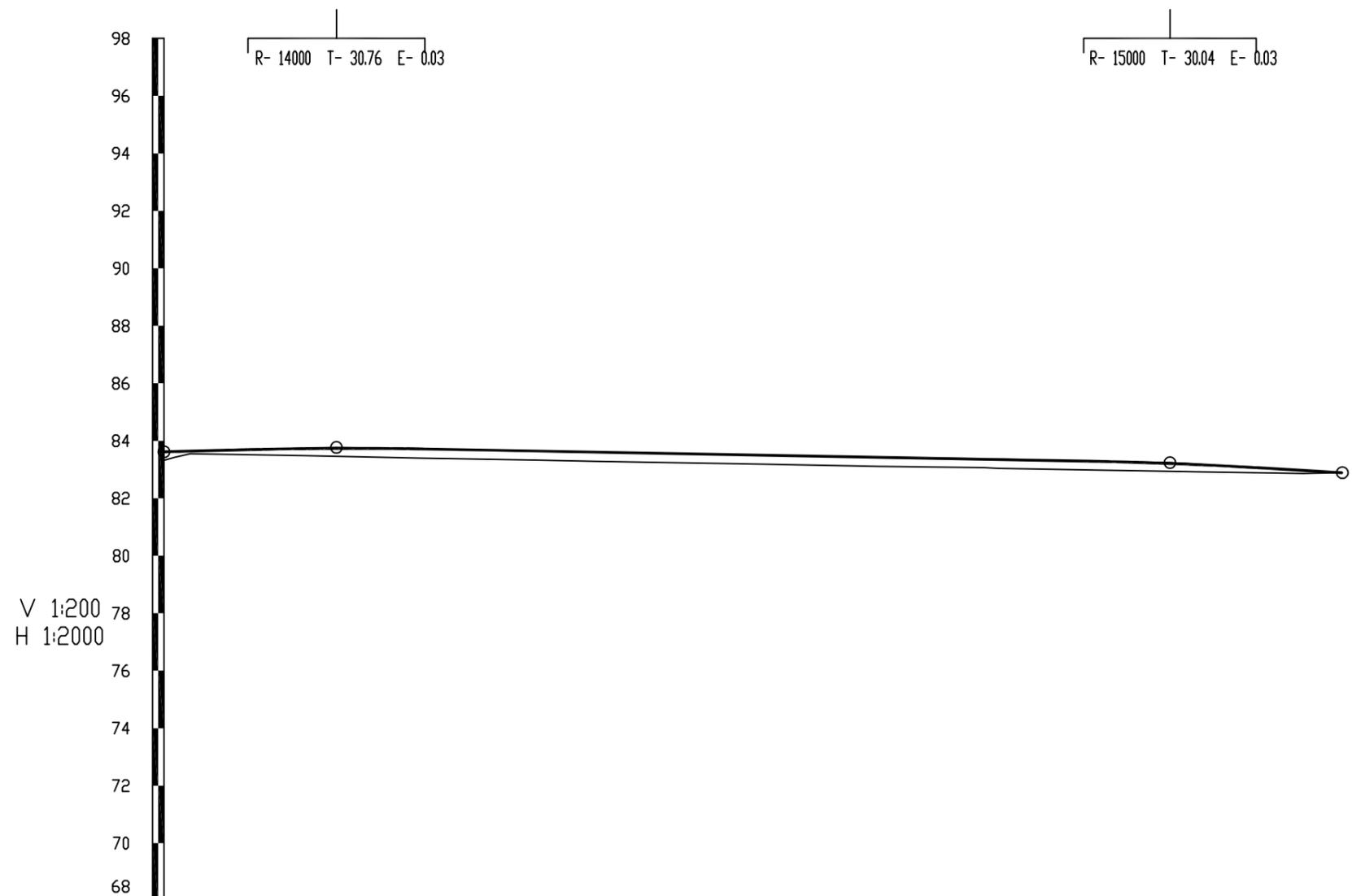
R- 4500 T- 33.28 E- 0.12



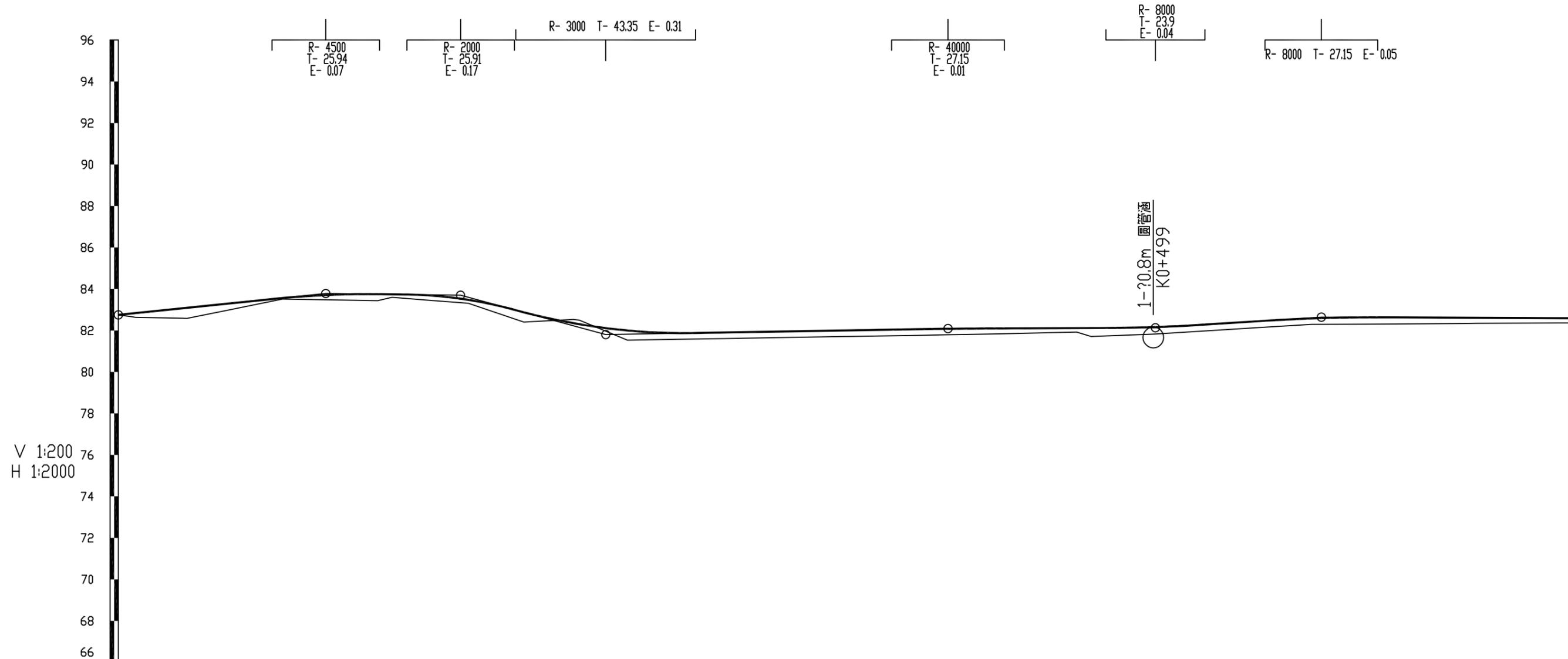
地质概况	原有旧路																				
坡度(%)坡长(m)	-0.16 280.00(475.00) +380 82.07 1.32																				
填挖高度(m)	0.34	0.33	0.34	0.34	0.33	0.33	0.33	0.31	0.31	0.30	0.30	0.29	0.29	0.34	0.22	0.22	0.26	0.36	0.39	0.46	0.00
设计高程(m)	82.51	82.47	82.43	82.42	82.37	82.35	82.32	82.27	82.23	82.19	82.18	82.13	82.12	82.14	82.20	82.35	82.48	82.88	83.00	83.28	83.38
地面高程(m)	82.17	82.14	82.09	82.08	82.04	82.02	81.99	81.96	81.92	81.89	81.88	81.84	81.83	81.80	81.98	82.13	82.22	82.52	82.61	82.82	83.38
里程桩号	K2+100	+122.045	+150	+157.044	+190.229	-2	+220.230	+250	+280.240	-3	+310.231	+339.510	+350	+369.521	+381.098	-4	+411.267	+441.323	+450	+471.329	K2+479



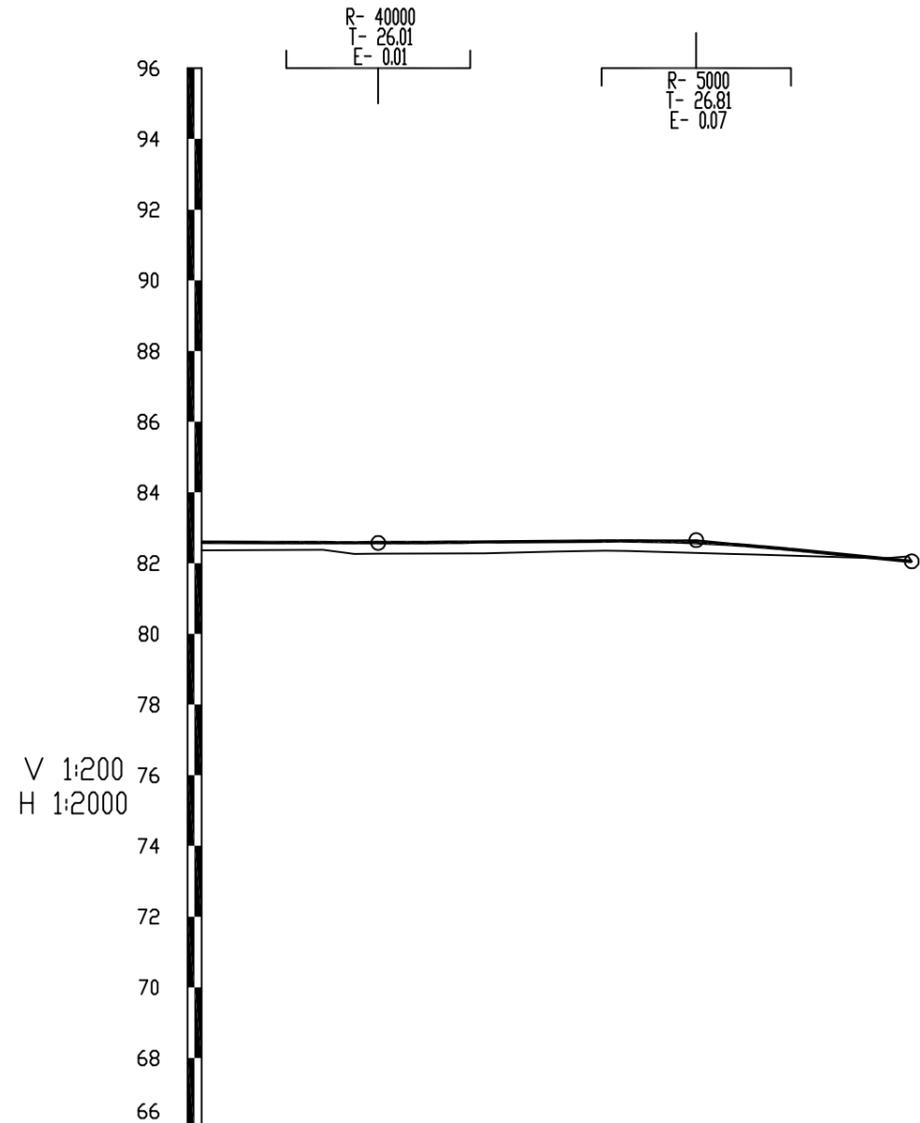
地质概况	原有旧路																						
坡度(%)坡长(m)	82.81	-0.02		+0.60	82.80	0.15				+2.50	83.08	-0.77		+3.25	82.50	0.06		82.55					
填挖高度(m)	0.30	60.00	0.31	0.35	0.33	0.31	0.31	0.31	0.31	0.31	0.31	190.00	0.31	0.26	75.00	0.31	0.31	0.36	0.22	0.12	0.15	0.00	
设计高程(m)	82.81	82.81	82.81	82.81	82.80	82.84	82.86	82.90	82.93	82.96	83.01	83.03	82.79	82.69	82.56	82.52	82.53	82.54	82.55	82.55	82.55	82.55	82.55
地面高程(m)	82.51	82.50	82.45	82.48	82.53	82.55	82.59	82.62	82.65	82.70	82.77	82.48	82.39	82.20	82.29	82.42	82.40	82.40	82.55	82.55	82.55	82.55	82.55
里程桩号	K0+000	+018.819	+024.605	+047.550	+088.784	+128.088	+150	+167.079			+248.628	+287.598	+324.834	+350	+384.229	K0+414							



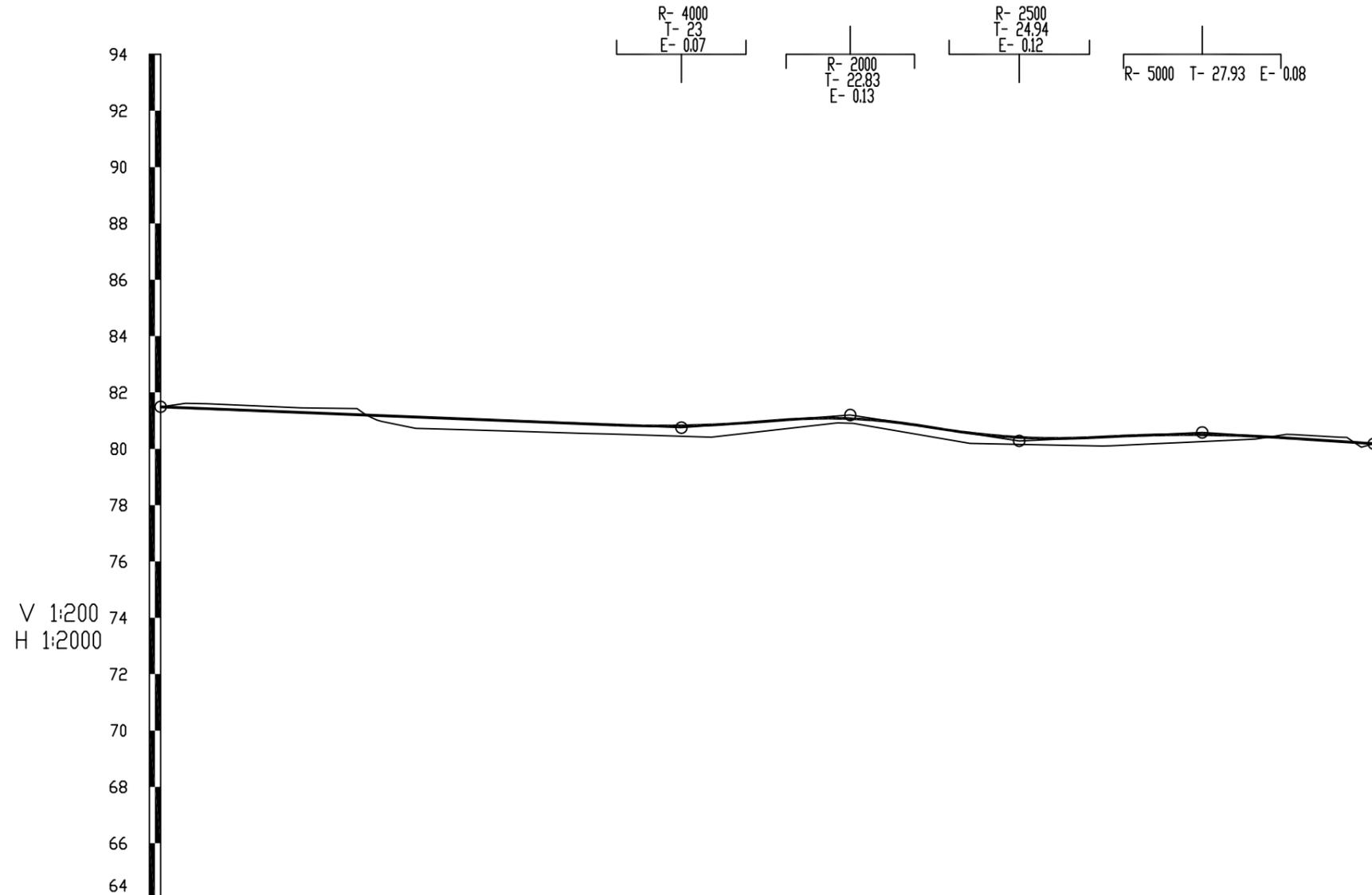
地质概况	原有旧路															
坡度(%)坡长(m)	83.62	0.26	60.00	+0.60	83.77	-0.18					290.00	+0.35	83.24	60.00	-0.58	82.89
填挖高度(m)	0.09	0.25	0.32	0.31	0.31	0.32	0.32	0.32	0.32	0.31	0.29	0.31	0.31	0.27	0.25	0.18
设计高程(m)	83.64	83.73	83.72	83.70	83.64	83.61	83.57	83.51	83.50	83.42	83.36	83.33	83.29	83.21	83.17	82.95
地面高程(m)	83.55	83.48	83.40	83.38	83.33	83.29	83.25	83.20	83.18	83.11	83.07	83.02	82.98	82.94	82.92	82.89
里程桩号	K0+000	+050	+089.471	-1	+129.488	+150	+169.474	-2	+209.477	+249.485	+285.404	-3	+323.989	+350	+358.989	-4
	K0+000															K0+410



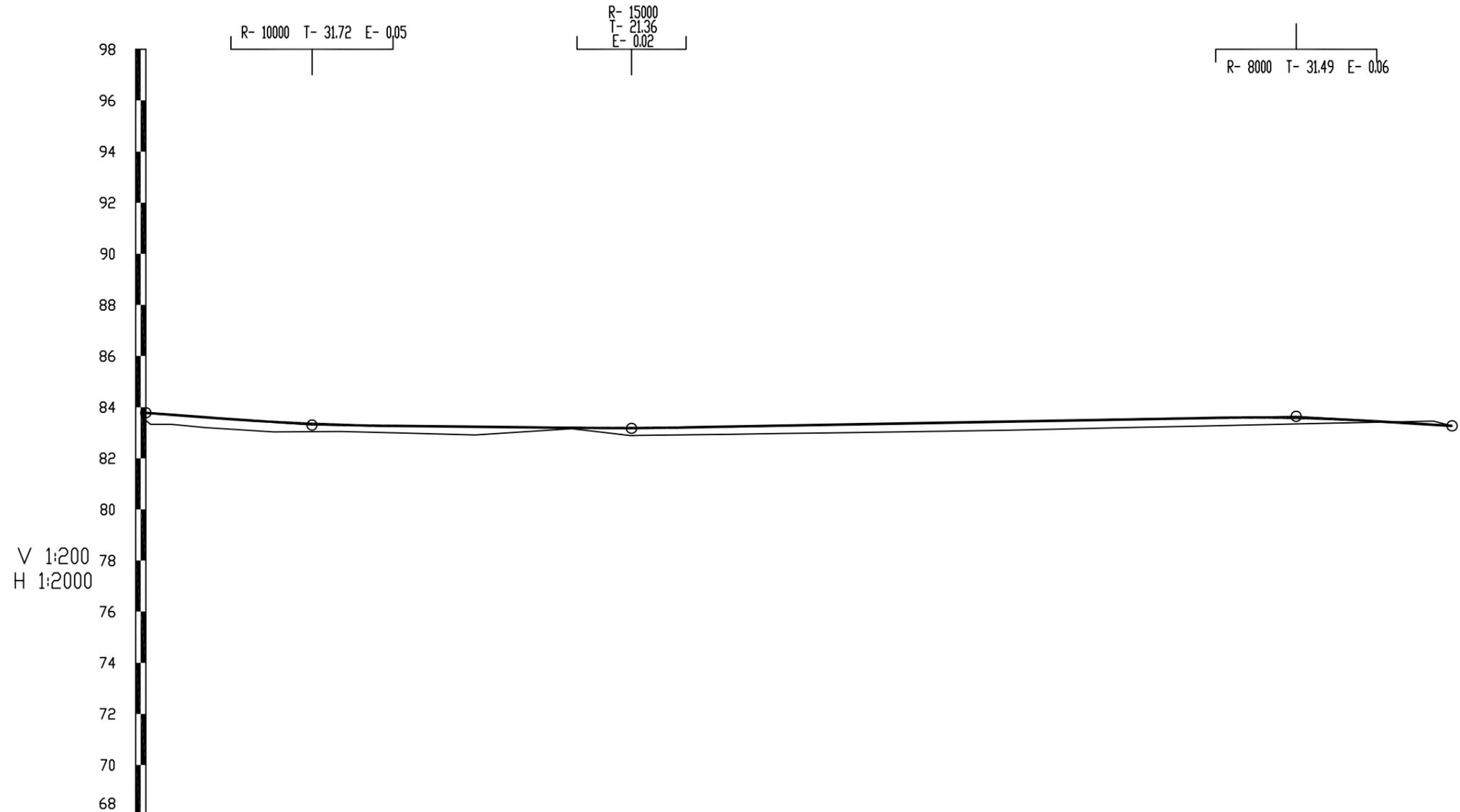
地质概况	原有旧路																																							
坡度(%)坡长(m)	82.75	1.03		100.00		+100	83.78	-0.12		65.00		+165	83.70	-2.71		+235	81.80	0.18		165.00		+400	82.09	0.04		100.00		+500	82.13	0.64		80.00		+580	82.64	-0.04		120.00(170.00)		
填挖高度(m)	0.06	0.48	0.34	0.05	0.23	0.31	0.15	0.23	0.19	0.48	0.34	-0.18	0.47	0.30	0.29	0.29	0.29	0.30	0.30	0.29	0.26	0.22	0.19	0.41	0.34	0.30	0.31	0.29	0.33	0.32	0.28	0.23	0.23							
设计高程(m)	82.85	83.07	83.27	83.56	83.71	83.75	83.74	83.69	83.52	82.88	82.76	82.35	82.00	81.87	81.90	81.91	81.94	82.00	82.07	82.08	82.10	82.11	82.11	82.12	82.17	82.36	82.45	82.58	82.63	82.63	82.61	82.59	82.58							
地面高程(m)	82.86	82.59	82.92	83.51	83.48	83.44	83.60	83.46	83.33	82.49	82.43	82.53	81.53	81.57	81.61	81.62	81.65	81.71	81.77	81.79	81.84	81.89	81.92	81.71	81.83	82.06	82.14	82.29	82.30	82.31	82.34	82.36	82.36							
里程桩号	K0+006.721	+031.068	+050	+079.065	1	+125.091	+131.953	+150	+165.620	+195.478	+219.276	+245.468	+268.703	+291.878	+315.052	+350	+388.553	+425.286	+450	+462.019	+469.008	5	+536.679	+550	+575.278	6	+615.026	+650	+694.535	K0+700										



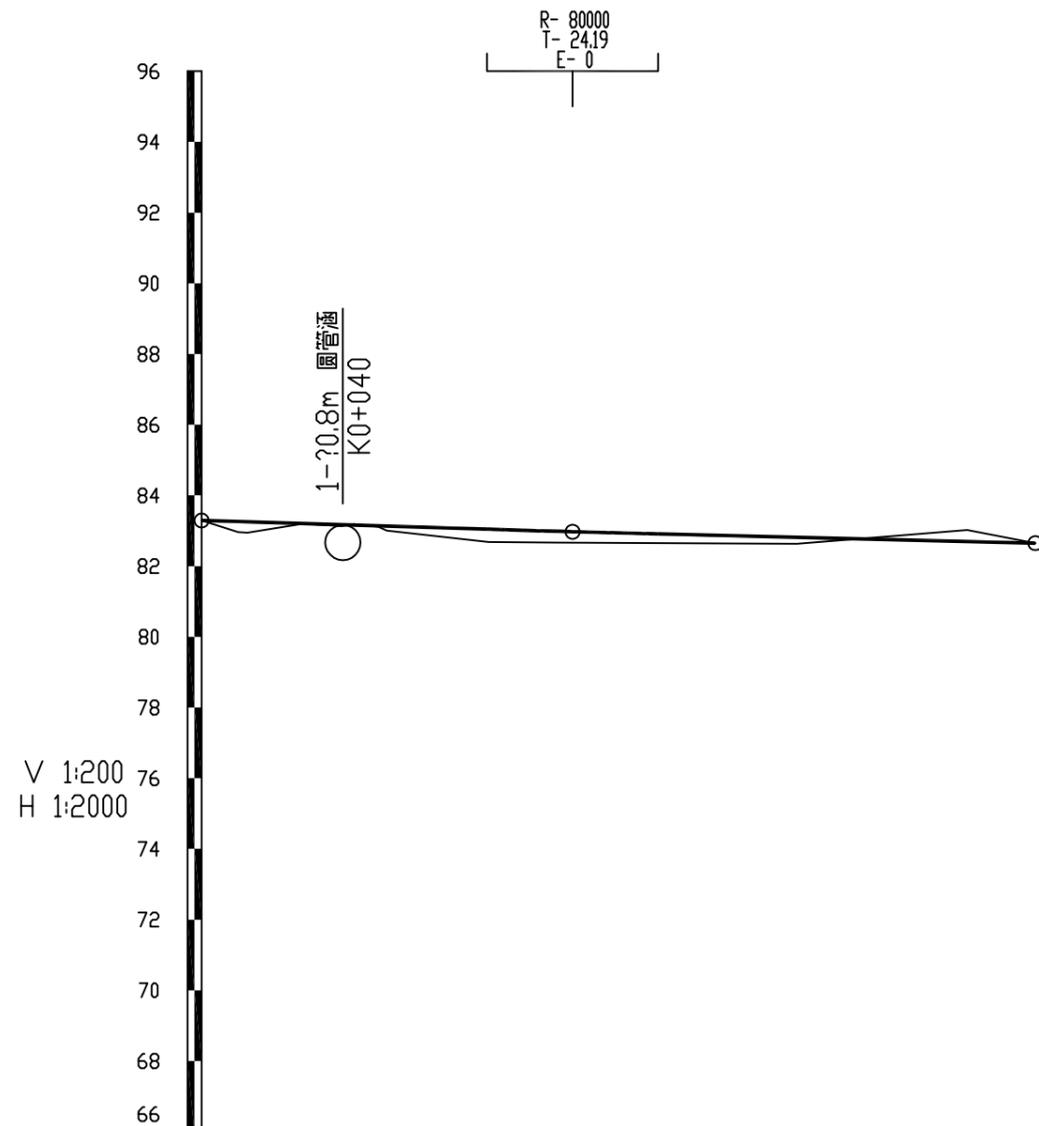
地质概况	原有旧路									
坡度(%)坡长(m)	-0.04		0.09		+8.40		-0.98			
填挖高度(m)	0.23	0.20	0.32	0.31	0.32	0.29	0.27	0.28	0.26	0.23
设计高程(m)	82.59	82.58	82.58	82.58	82.60	82.61	82.63	82.63	82.52	82.47
地面高程(m)	82.36	82.38	82.26	82.26	82.28	82.33	82.36	82.35	82.26	82.24
里程桩号	K0+700	+734.288	+743.298	+750	+779.854	-8	+814.159	+820.520	+850	+856.788
										+893.026
										K0+901



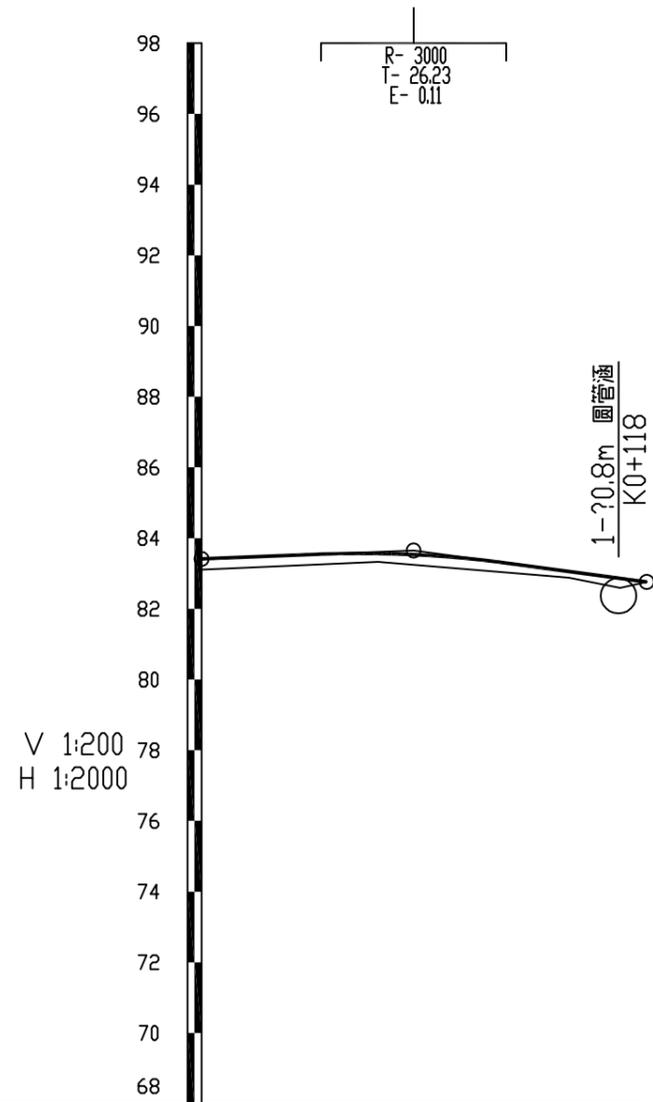
地质概况	原有旧路																						
坡度(%)坡长(m)	81.49	-0.40			185.00	+185	80.75	0.75	60.00	+245	81.20	60.00	-1.53	+305	80.28	0.46	65.00	+370	80.58	61.00	-0.66	80.18	
填挖高度(m)	-0.08	-0.18	-0.16	-0.22	0.16	0.40	0.39	0.37	0.34	0.33	0.44	0.41	0.16	0.17	0.37	0.27	0.32	0.32	0.28	0.11	-0.13	-0.15	0.15
设计高程(m)	81.49	81.42	81.29	81.21	81.18	81.13	81.09	80.99	80.89	80.85	80.85	80.87	81.08	81.07	80.56	80.44	80.42	80.48	80.50	80.45	80.38	80.26	80.21
地面高程(m)	81.62	81.60	81.45	81.43	81.02	80.73	80.70	80.62	80.55	80.52	80.41	80.46	80.92	80.90	80.19	80.17	80.10	80.16	80.22	80.34	80.51	80.42	80.06
里程桩号	K0+000	+008.933	+016.871	+050	+069.749	+076.796	+090.616	+125.819	+150	+160.538	+195.587	+240.437	+246.083	+287.428	+334.541	+350	+361.762	+388.918	+418.583	+426.492	K0+431		



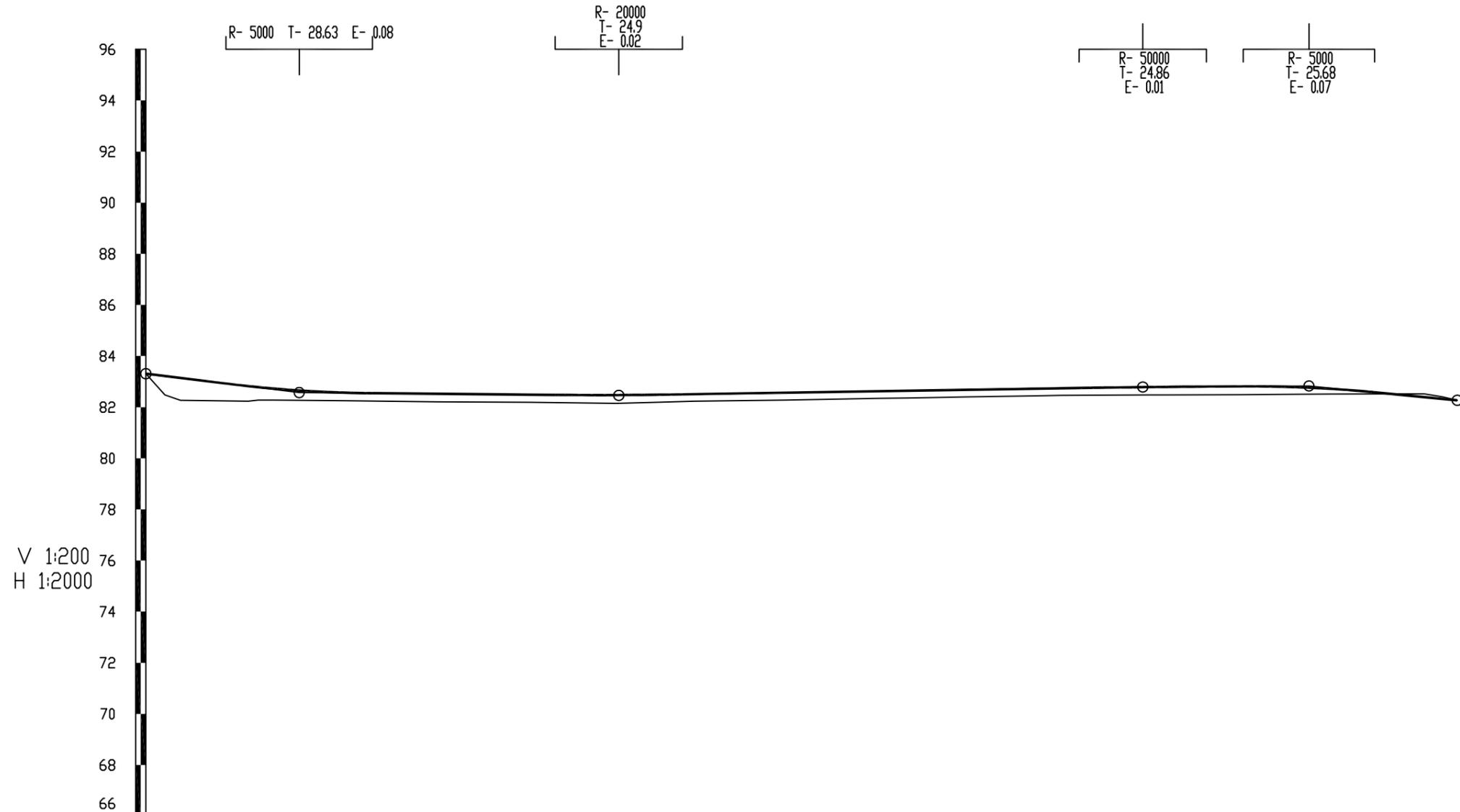
地质概况	原有旧路																									
坡度(%)坡长(m)	83.78	-0.74	+0.65	83.30	-0.10	+1.90	83.17	0.18	+4.50	83.64	-0.61	83.27														
填挖高度(m)	0.38	65.00	0.39	0.26	0.28	125.00	0.32	0.16	0.03	0.30	0.29	0.30	0.31	0.32	0.33	260.00	0.34	0.33	0.32	0.31	0.31	0.23	61.00	0.17	-0.11	0.00
设计高程(m)	83.78	83.71	83.65	83.61	83.42	83.31	83.26	83.23	83.21	83.19	83.19	83.24	83.28	83.31	83.37	83.44	83.46	83.51	83.55	83.59	83.58	83.54	83.34	83.37	83.34	83.27
地面高程(m)	83.48	83.33	83.26	83.20	83.03	83.05	82.99	82.91	83.05	83.16	82.89	82.90	82.94	82.97	82.99	83.04	83.10	83.13	83.19	83.24	83.28	83.34	83.37	83.45	83.27	83.27
里程桩号	K0+000	+009.970	+017.167	+023.266	+050	+076.055	-1	+128.827	+150	+166.818	+189.770	-2	+228.893	+250	+265.308	-3	+338.158	+350	+379.217	-4	+420.560	+450	+461.733	-5	K0+511	



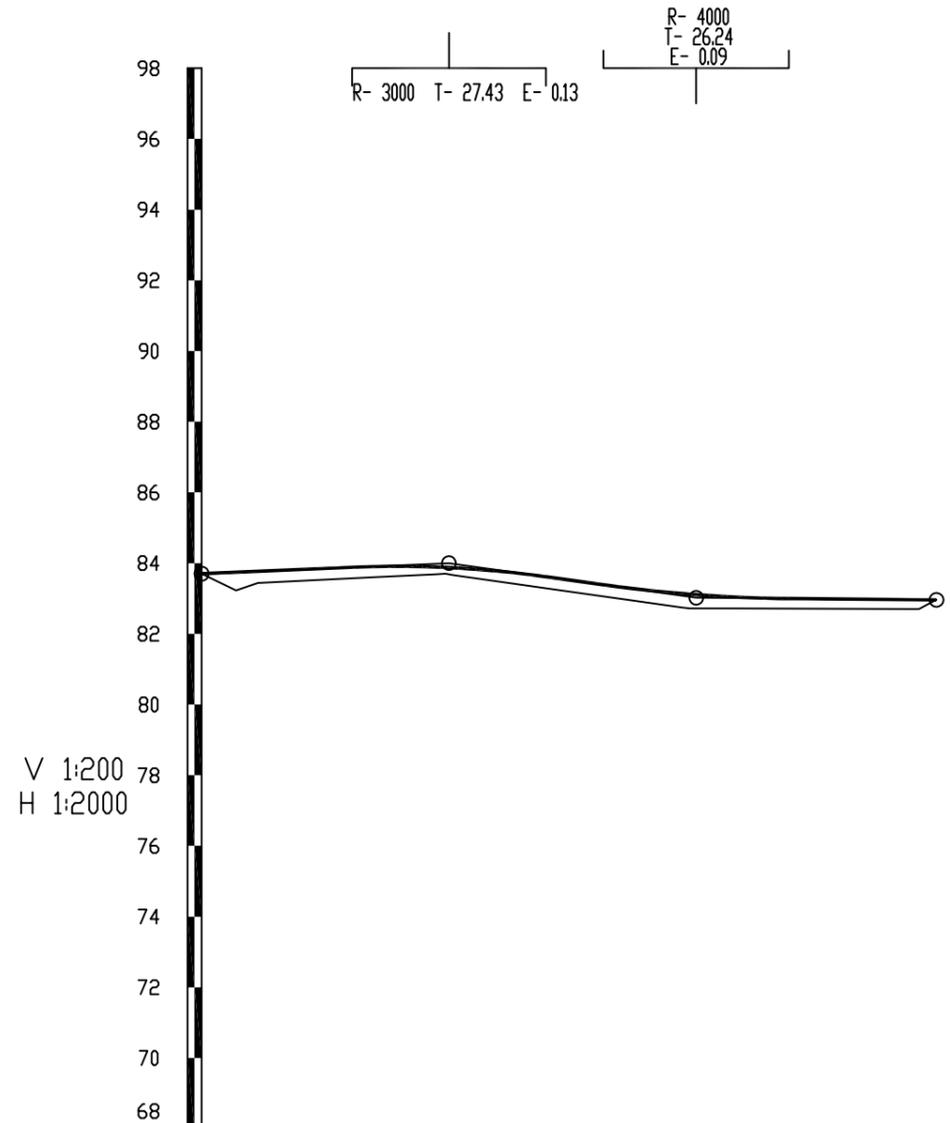
地质概况	原有旧路											
坡度(%)坡长(m)	83.29	-0.30				+105	82.97	-0.24				82.65
填挖高度(m)	0.90	0.30	0.00	0.04	0.02	0.36	0.32	0.22	0.18	-0.15	-0.32	0.00
设计高程(m)	83.29	83.26	83.20	83.17	83.14	83.04	82.99	82.86	82.81	82.74	82.70	82.65
地面高程(m)	83.29	82.96	83.20	83.13	83.12	82.68	82.67	82.64	82.63	82.89	83.02	82.65
里程桩号	K0+000	+00.309	+028.711	+039.608	+050	+081.214	-1	+150	+168.497	-2	+216.694	K0+236



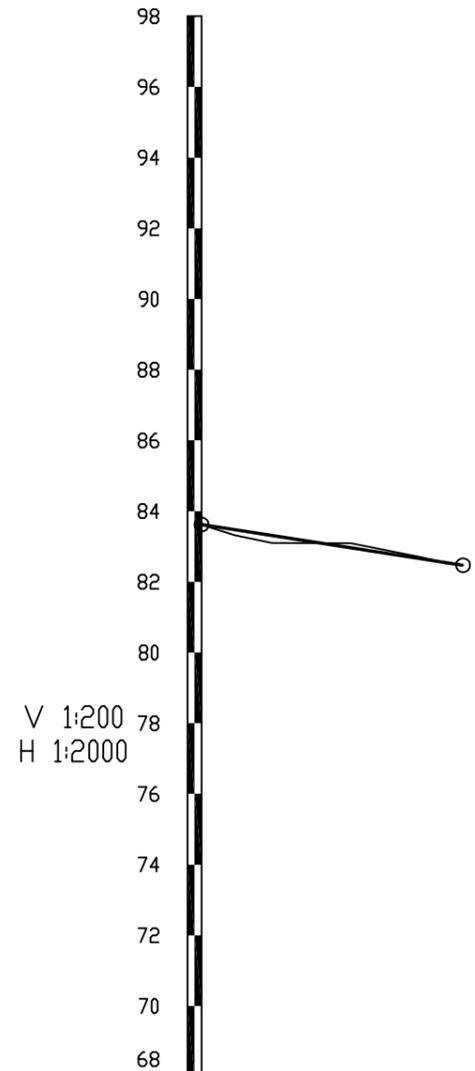
地质概况	原有旧路				
坡度(%)坡长(m)	83.41	0.40	+0.60 83.65	-1.35	82.76
填挖高度(m)	0.30	0.24	66.00	0.20	0.27
设计高程(m)	83.41	83.57	83.11	82.86	82.76
地面高程(m)	83.11	83.32	82.91	82.59	82.76
里程桩号	K0+000	+050	-1	+118.453	K0+126



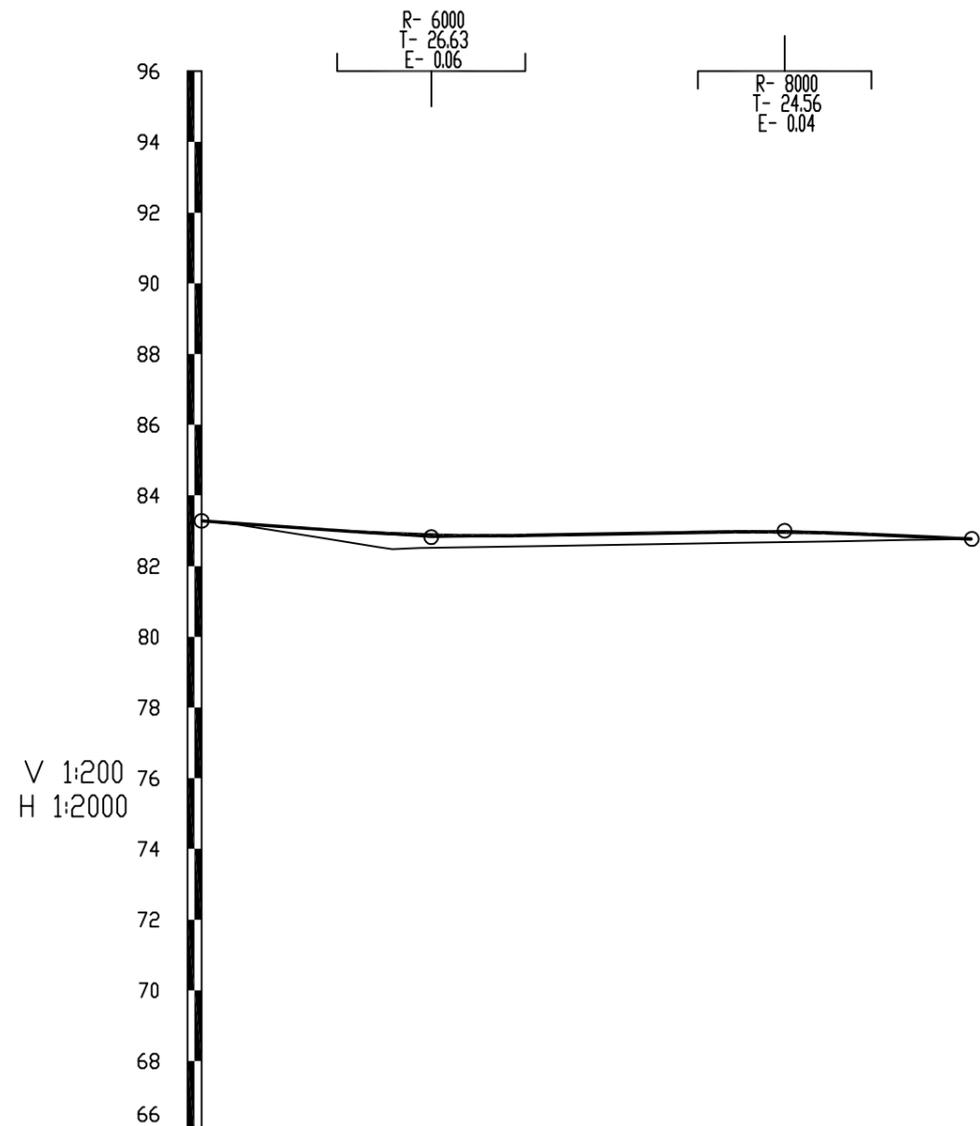
地质概况	原有旧路																									
坡度(%)坡长(m)	83.31 60.00	-1.23	+0.60 82.57	-0.09	125.00	+1.85 82.46	0.16	205.00	+3.90 82.79	0.06	65.00	+4.55 82.83	-0.97	58.00	82.27											
填挖高度(m)	0.74 0.87	0.59	0.45	0.31	0.31	0.31	0.30	0.33	0.29	0.28	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.31	0.31	0.32	0.28	0.21	-0.13	-0.07	0.00
设计高程(m)	83.28 83.14	82.82	82.73	82.56	82.53	82.52	82.49	82.48	82.49	82.51	82.56	82.62	82.65	82.68	82.73	82.74	82.79	82.79	82.81	82.78	82.72	82.40	82.40	82.33	82.27	
地面高程(m)	83.48 82.27	82.23	82.28	82.25	82.23	82.21	82.19	82.15	82.19	82.23	82.28	82.34	82.36	82.40	82.45	82.46	82.48	82.48	82.49	82.50	82.51	82.53	82.40	82.49	82.27	
里程桩号	K0+000 +013.541	+040.093	+050	+079.023	1	+114.066	+150	+184.034	2	+214.727	+250	+286.407	3	+322.255	+350	+358.083	+393.096	4	+428.090	+450	+463.079	5	+507.303	K0+513		



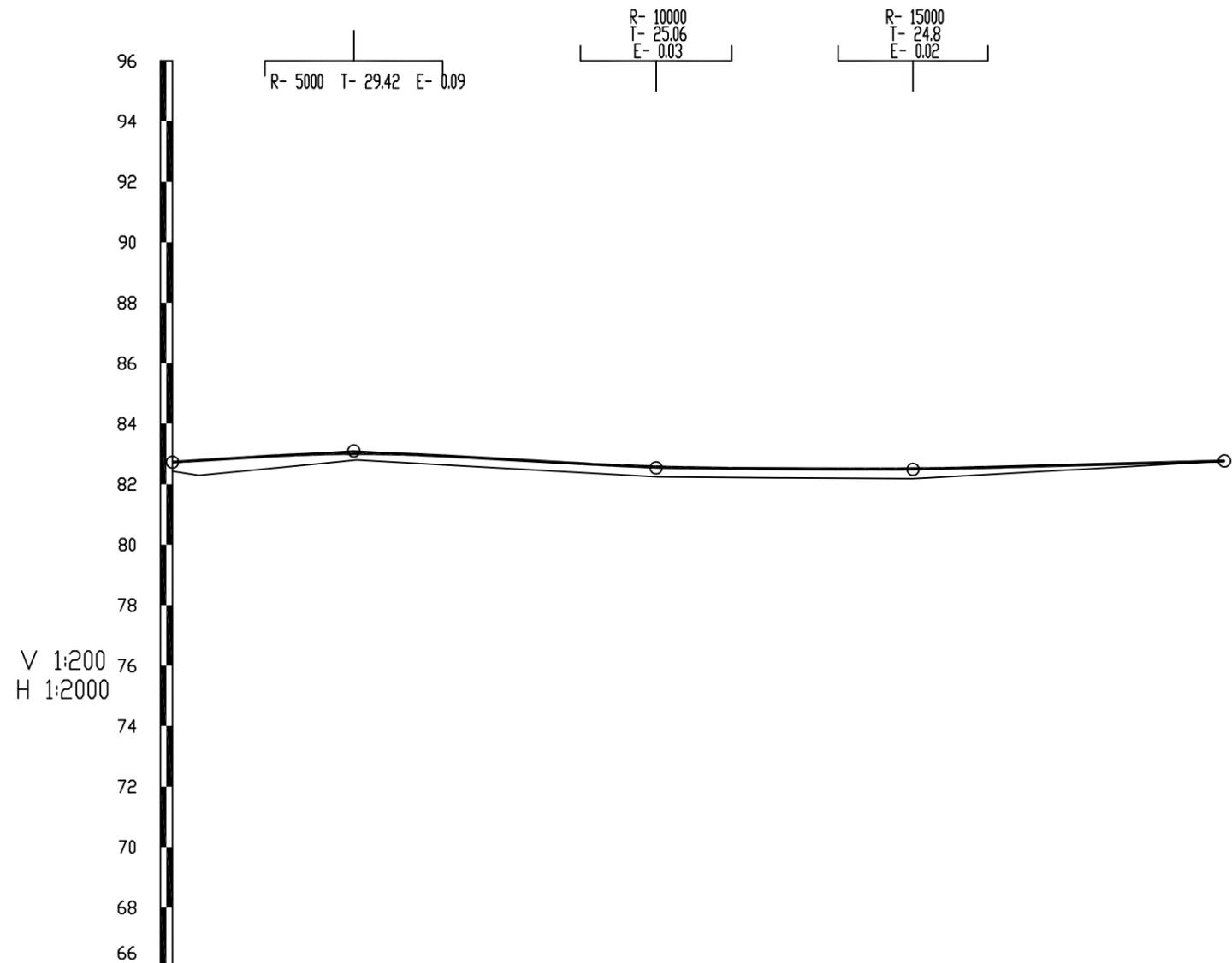
地质概况	原有旧路										
坡度(%)坡长(m)	83.70	0.43	70.00	+0.70	84.00	-1.40	+1.40	83.02	68.00	-0.09	82.96
填挖高度(m)	0.00	0.31	0.30	0.21	0.32	0.39	0.33	0.27	0.00	0.00	
设计高程(m)	83.70	83.74	83.91	83.89	83.58	83.14	83.04	82.97	82.96	82.96	
地面高程(m)	83.70	83.23	83.61	83.69	83.26	82.74	82.72	82.70	82.96	82.96	
里程桩号	K0+000	+09.745	+050	+066.306	-1	+136.034	+150	-2	K0+208		



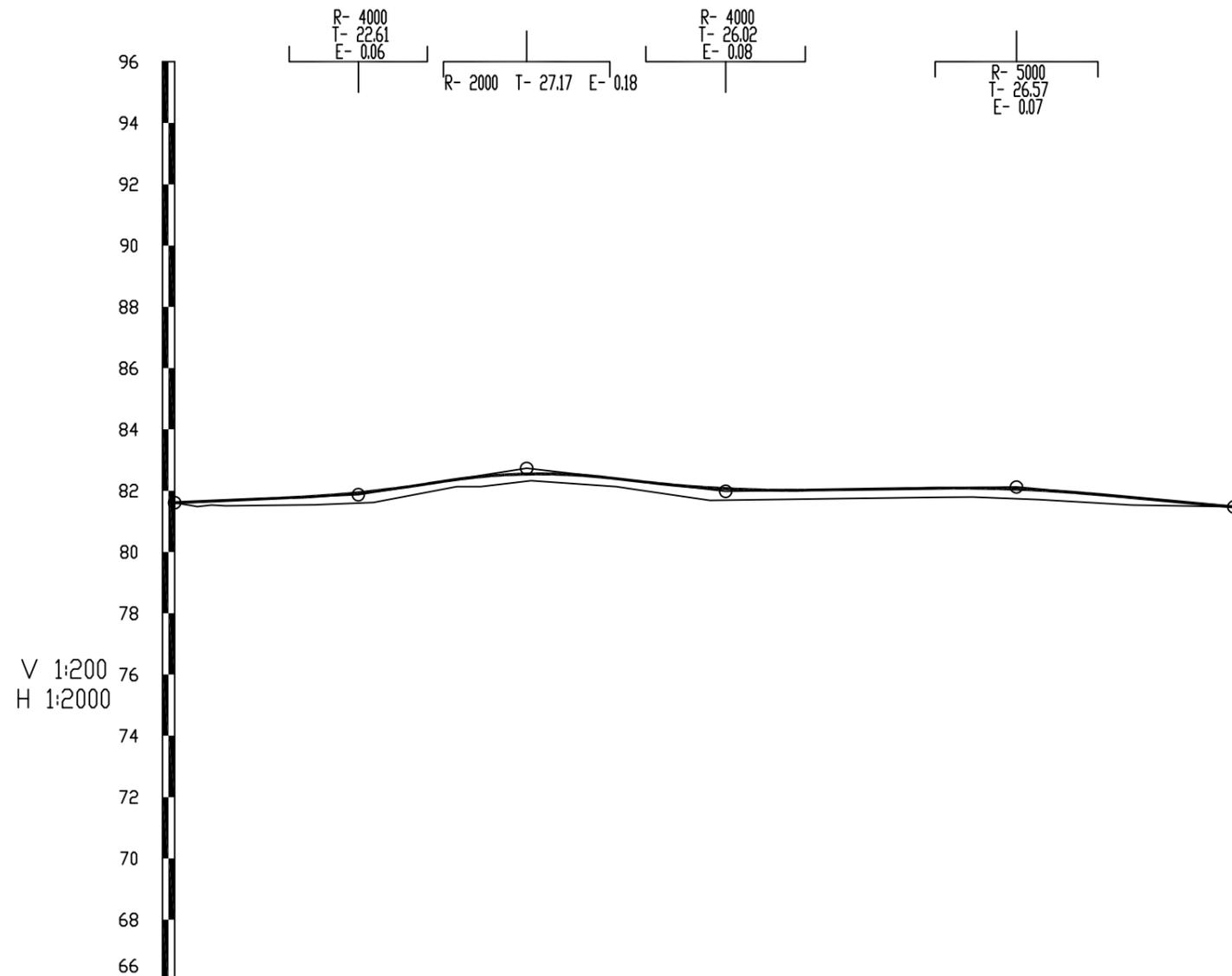
地质概况	原有旧路			
坡度(%)坡长(m)	83.62	74.00	-1.56	82.47
填挖高度(m)	0.06	0.21	-0.13	-0.04
设计高程(m)	83.68	83.31	82.96	82.65
地面高程(m)	83.62	83.10	83.09	82.69
里程桩号	K0+000	+019.941	+042.280	+062.364



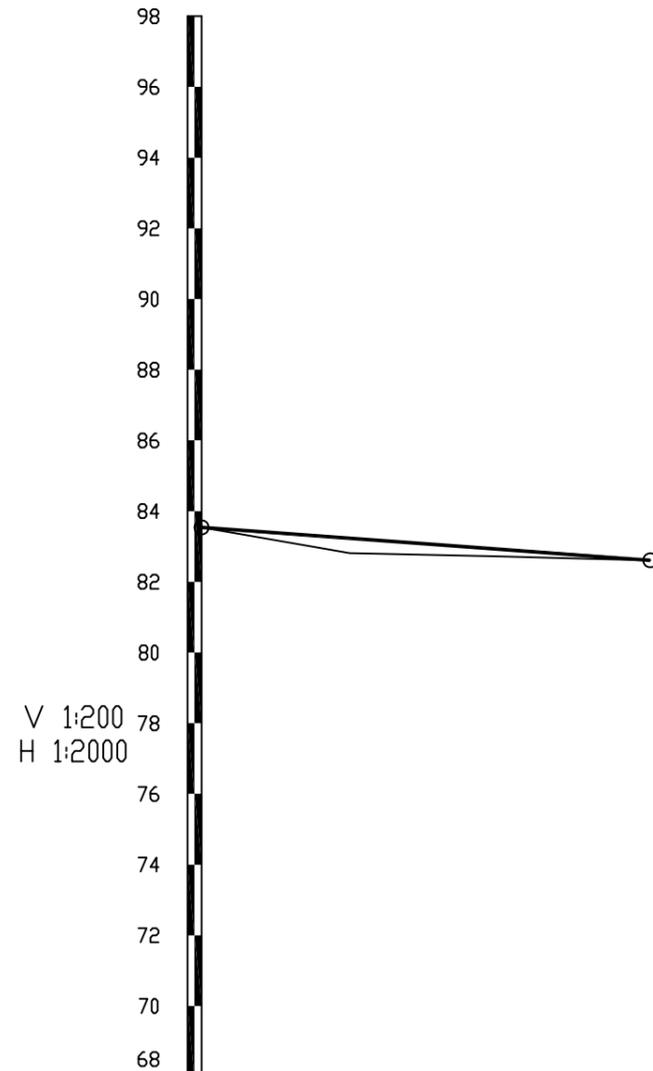
地质概况	原有旧路										
坡度(%)坡长(m)	83.28	-0.71	+0.65	82.82	0.18	+1.65	83.00	-0.43	82.77		
填挖高度(m)	0.00	0.23	0.40	0.38	0.31	0.31	0.23	0.11	0.00		
设计高程(m)	83.28	83.21	83.04	82.94	82.89	82.88	82.95	82.97	82.93	82.85	82.77
地面高程(m)	83.28	83.17	82.81	82.54	82.51	82.57	82.64	82.66	82.70	82.74	82.77
里程桩号	K0+000	+010.282	+033.276	+050	+061.634	-1	+139.990	+150	+179.164	-2	K0+218



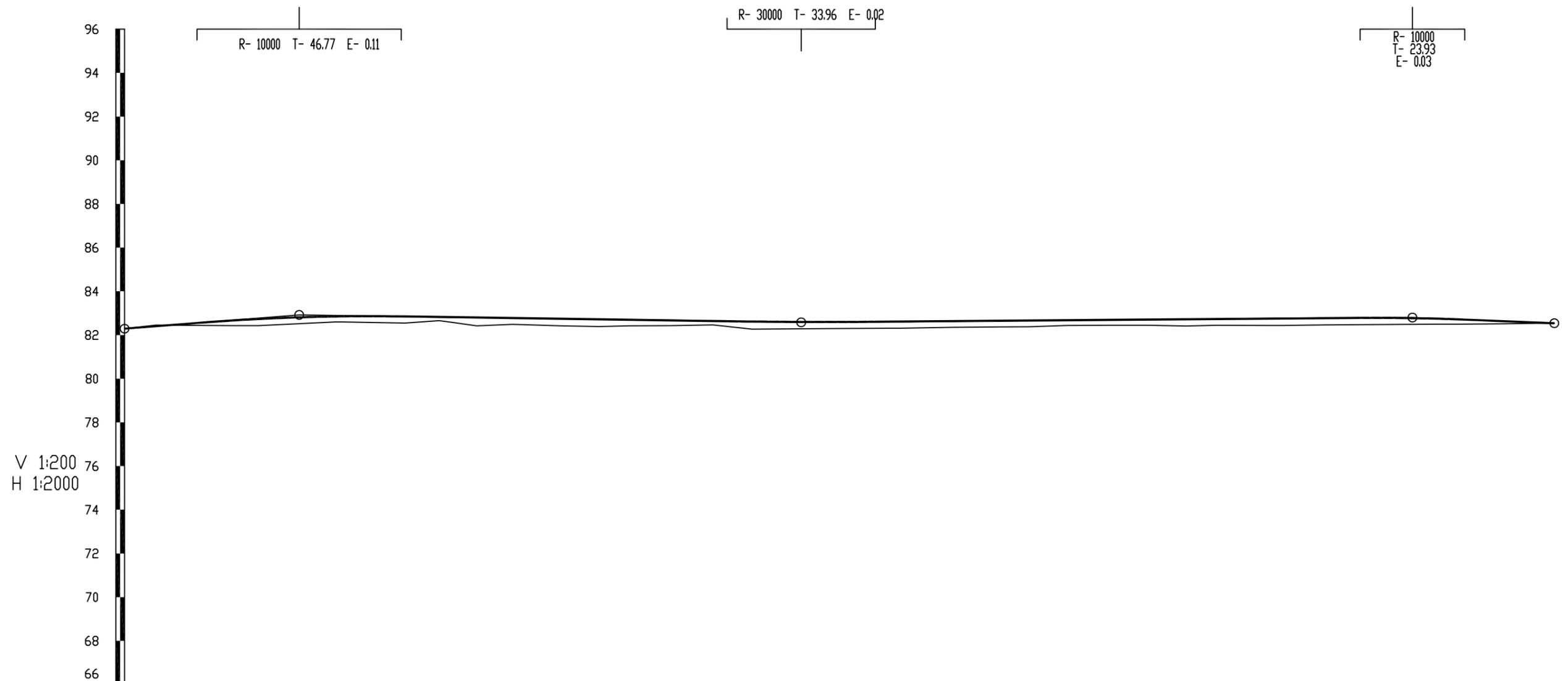
地质概况	原有旧路												
坡度(%)坡长(m)	82.73	0.62										82.77	
填挖高度(m)	0.49	0.31	0.21	0.30	0.30	0.31	0.33	0.30	0.33	0.15	0.15	0.00	
设计高程(m)	82.78	83.00	83.01	82.88	82.82	82.61	82.57	82.52	82.51	82.52	82.63	82.77	
地面高程(m)	82.49	82.69	82.80	82.58	82.52	82.30	82.24	82.21	82.18	82.21	82.49	82.77	
里程桩号	K0+000	+050	+060.861	-1	+110.627	+150	+160.413	-2	+244.684	+250	+296.165	-3	K0+348



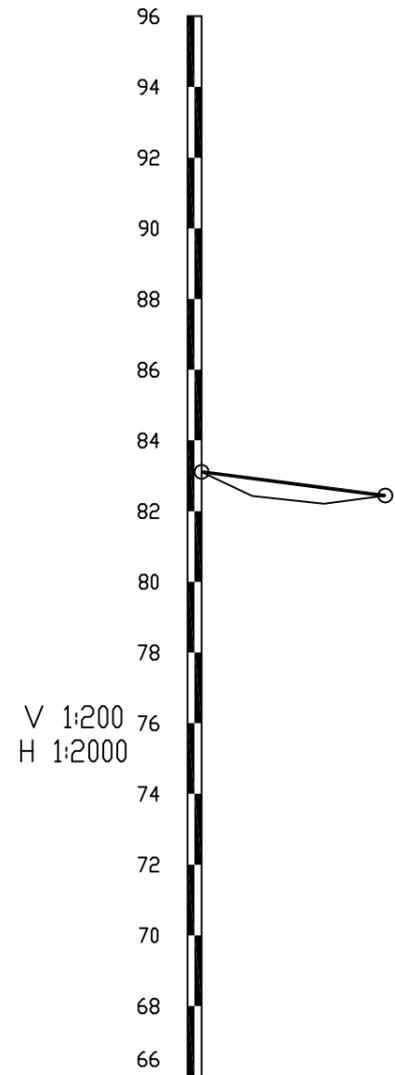
地质概况	原有旧路																	
坡度(%)坡长(m)	81.61	0.43	60.00	+0.60	81.87	1.56	55.00	+1.15	82.73	-1.15	+1.80	81.98	0.15	95.00	+2.75	82.12	-0.92	81.47
填挖高度(m)	0.09	0.17	0.28	0.37	0.24	0.33	0.22	0.26	0.28	0.41	0.30	0.30	0.30	0.29	0.31	0.29	0.24	0.09
设计高程(m)	81.64	81.68	81.82	81.99	82.37	82.46	82.55	82.39	82.33	82.09	82.01	82.04	82.08	82.08	82.02	81.89	81.77	81.59
地面高程(m)	81.48	81.51	81.54	81.62	82.13	82.13	82.33	82.13	82.05	81.68	81.72	81.74	81.78	81.80	81.71	81.60	81.53	81.49
里程桩号	K0+000	+007.465	+016.667	+045.992	+064.922	+092.101	+116.442	+144.265	+150	+174.841	-2	+217.776	+250	+260.699	+282.317	-3	+312.714	K0+346



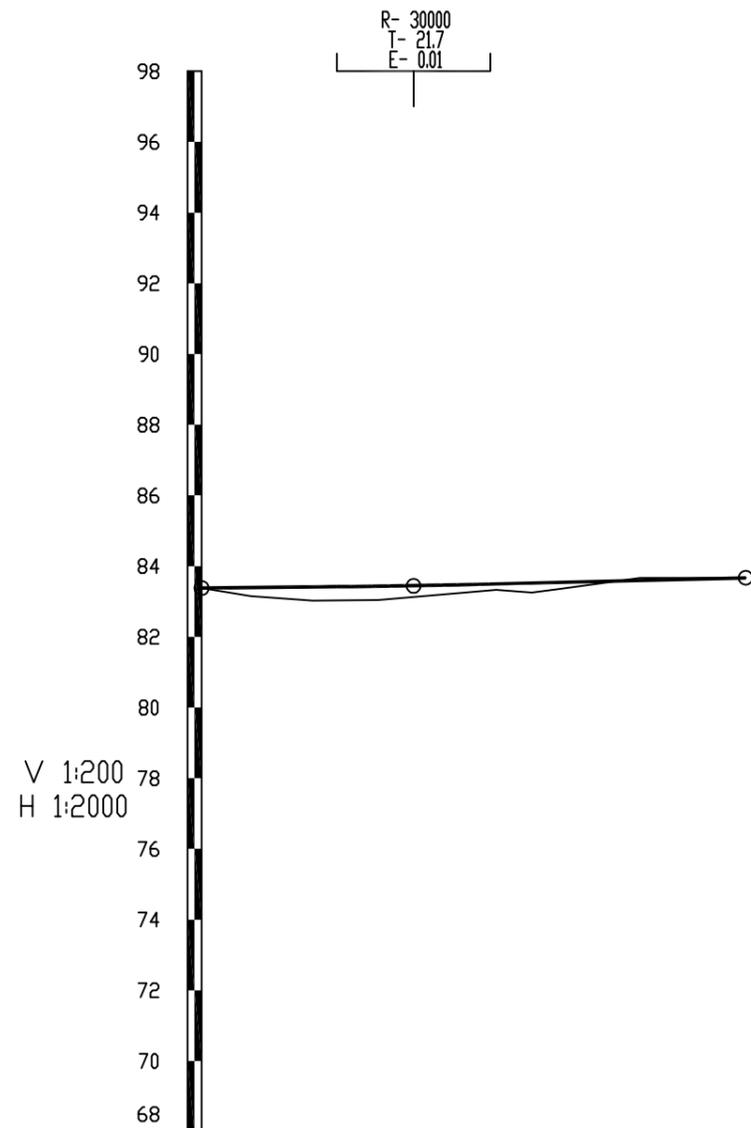
地质概况	原有旧路				
坡度(%)坡长(m)	83.54	-0.73			82.61
		127.00			
填挖高度(m)	0.00	0.42	0.38	0.20	0.13
设计高程(m)	83.54	83.23	83.17	82.92	82.81
地面高程(m)	83.54	82.81	82.79	82.72	82.68
里程桩号	K0+000	+041.881	+050	+084.673	-1



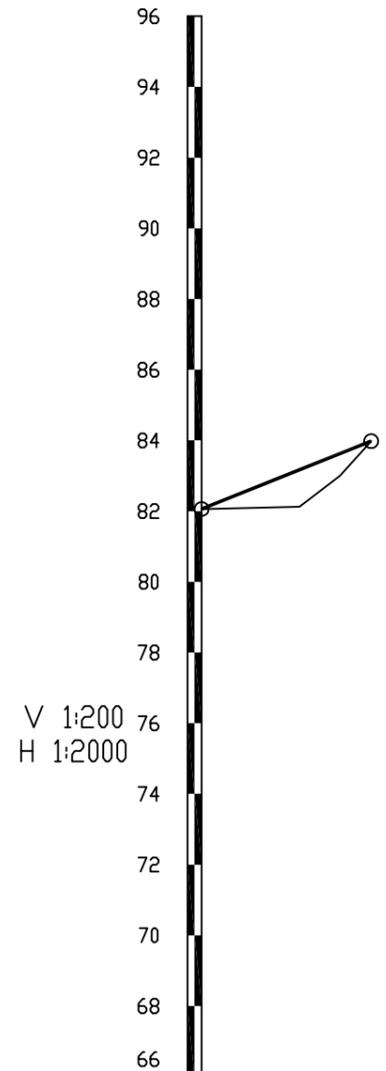
地质概况	原有旧路																																			
坡度(%)坡长(m)	82.29	0.79	80.00	+0.80	82.92	-0.15	230.00	+3.10	82.58	0.08	280.00	+5.90	82.80	-0.40	82.54																					
填挖高度(m)	0.00	-0.05	0.24	0.30	0.25	0.30	0.17	0.24	0.38	0.29	0.32	0.33	0.28	0.24	0.18	0.35	0.33	0.31	0.30	0.31	0.28	0.28	0.28	0.23	0.25	0.26	0.31	0.28	0.31	0.31	0.26	0.22	0.12	0.03	0.00	
设计高程(m)	82.29	82.40	82.67	82.73	82.85	82.85	82.83	82.82	82.80	82.78	82.74	82.72	82.70	82.67	82.64	82.62	82.60	82.60	82.61	82.62	82.63	82.65	82.66	82.68	82.69	82.71	82.72	82.73	82.75	82.75	82.77	82.75	82.72	82.64	82.56	82.54
地面高程(m)	82.29	82.46	82.43	82.43	82.59	82.55	82.66	82.58	82.42	82.49	82.42	82.39	82.42	82.43	82.46	82.27	82.28	82.29	82.31	82.31	82.35	82.37	82.38	82.44	82.44	82.45	82.41	82.45	82.44	82.44	82.46	82.49	82.50	82.52	82.54	82.54
里程桩号	K0+000	+014.366	+050	+061.242	+096.476	+128.401	+144.139	+150	+161.325	+177.833	-2	+217.440	+231.204	+250	+269.561	+287.376	-3	+322.444	+350	+355.578	+379.801	-4	+414.845	+431.946	+450	+469.609	+486.078	-5	+523.697	+530.734	+550	+610.833	+630.668	K0+655		



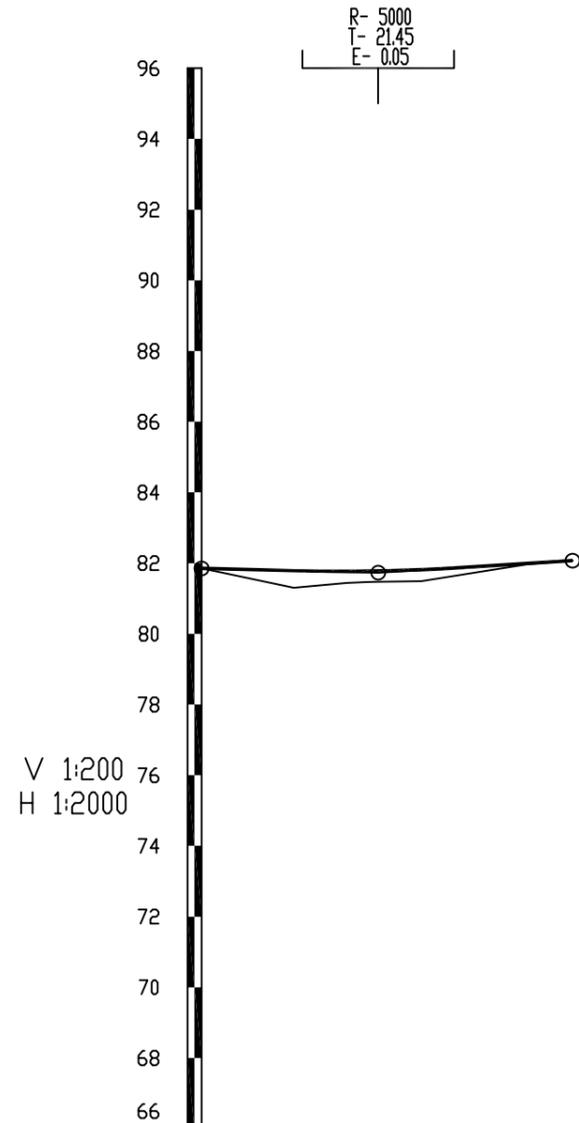
地质概况	原有旧路			
坡度(%)坡长(m)	83.11	52.00	-1.29	82.44
填挖高度(m)	0.00	0.50	0.45	0.00
设计高程(m)	83.11	82.93	82.66	82.44
地面高程(m)	83.11	82.43	82.21	82.44
里程桩号	K0+000	+014.339	+034.654	+050



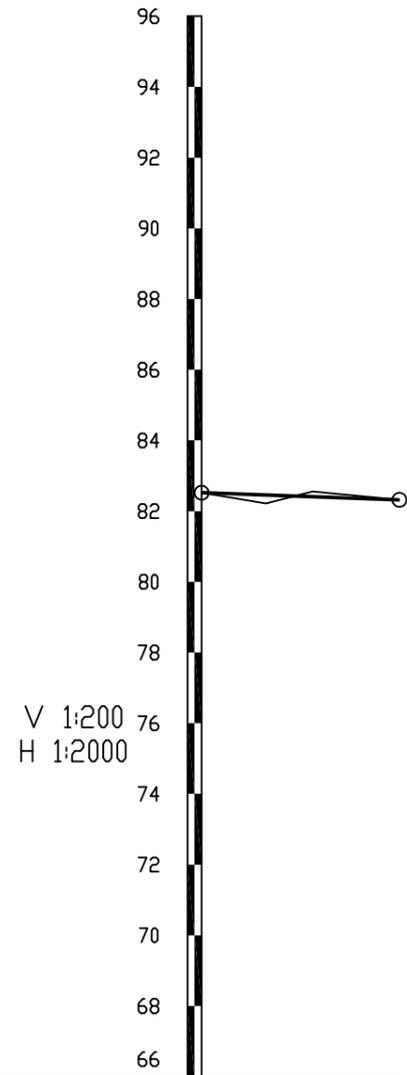
地质概况	原有旧路												
坡度(%)坡长(m)	83.38	0.10			+0.60	83.44	0.24				83.67		
填挖高度(m)	0.00	0.24	0.39	0.39	0.17	0.27	0.20	0.05	-0.07	-0.05	-0.02	-0.01	0.00
设计高程(m)	83.38	83.39	83.41	83.43	83.50	83.52	83.54	83.57	83.60	83.62	83.64	83.66	83.67
地面高程(m)	83.38	83.15	83.02	83.04	83.33	83.25	83.34	83.52	83.67	83.67	83.67	83.67	83.67
里程桩号	K0+000	+013.965	+031.424	+050	+083.407	+093.458	+113.015	+124.167	+133.021	+143.491	+150	K0+154	



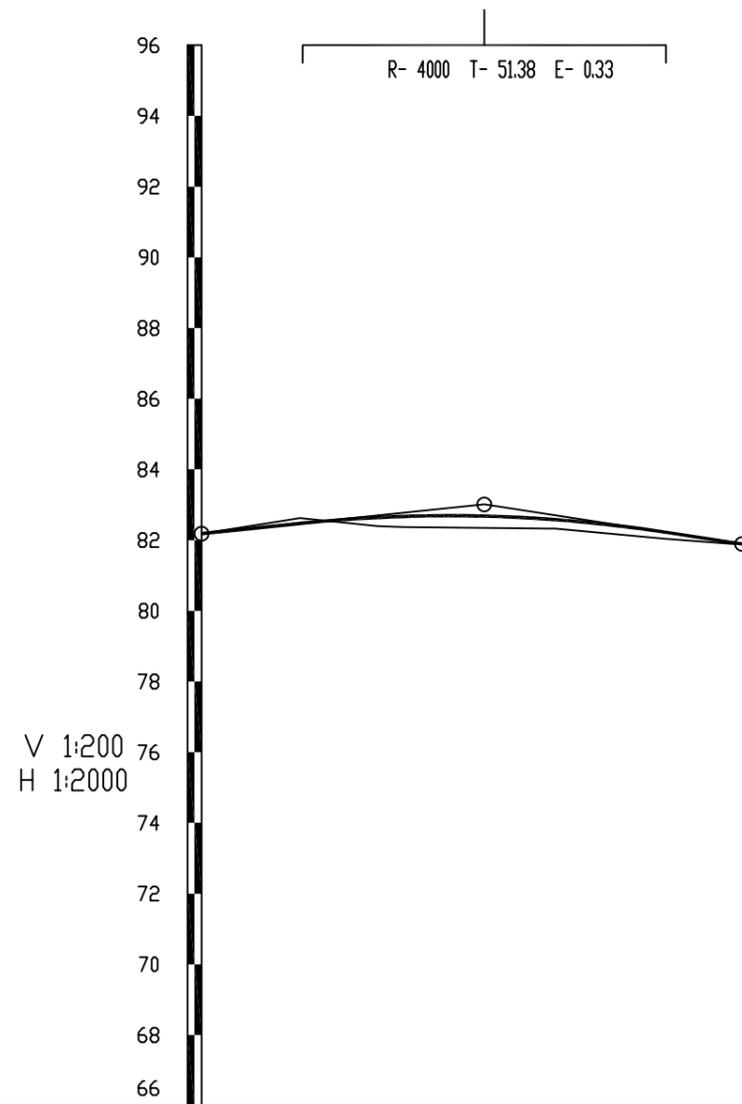
地质概况	原有旧路					
坡度(%)坡长(m)	0.00	82.06	4.00	82.13	48.00	83.98
填挖高度(m)	0.00	1.04	0.63	0.00	0.00	0.00
设计高程(m)	82.06	83.17	83.63	83.98	83.98	83.98
地面高程(m)	82.06	82.13	83.00	83.98	83.98	83.98
里程桩号	K0+000	+027.674	+039.127			



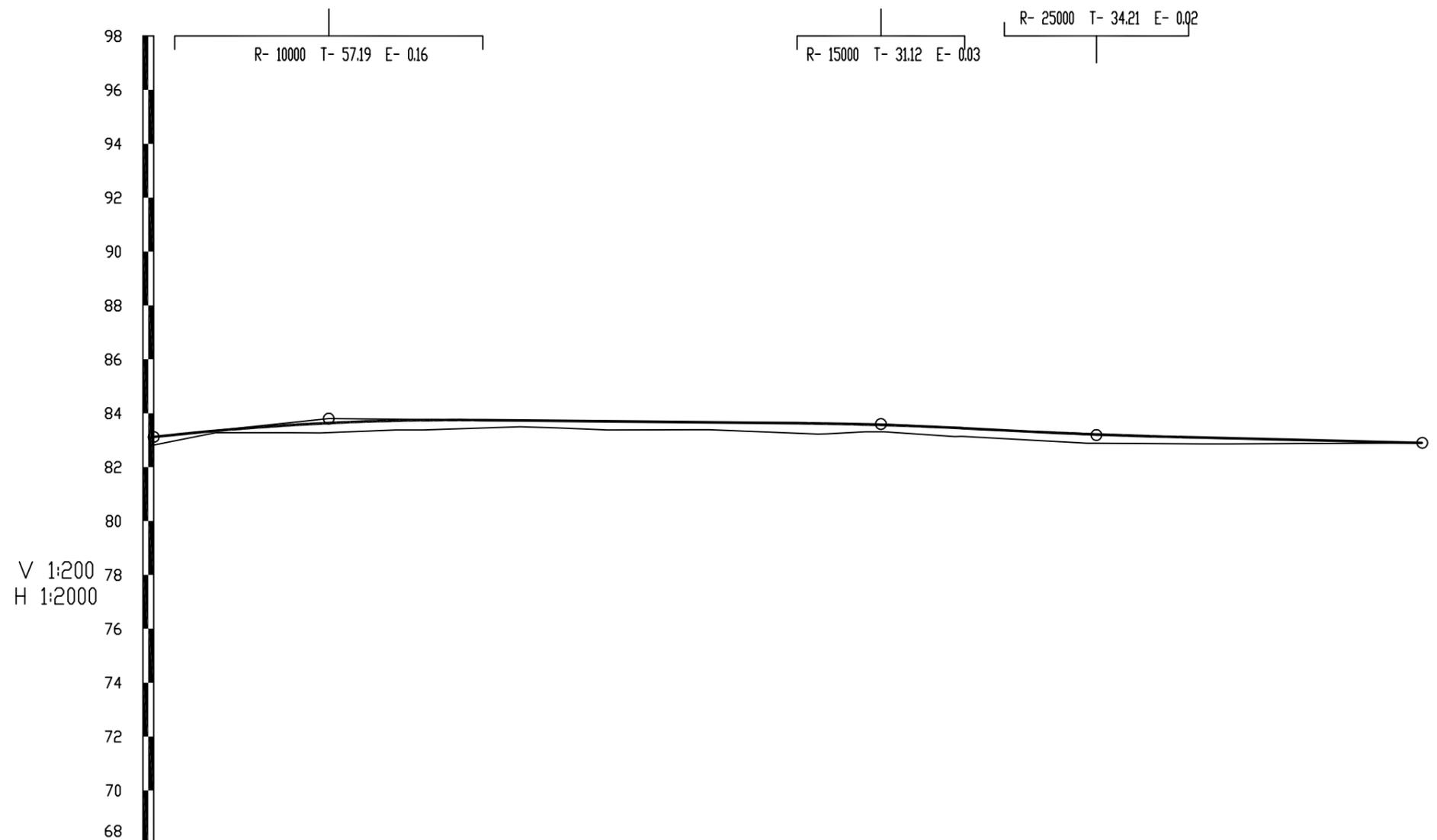
地质概况	原有旧路					
坡度(%)坡长(m)	81.85	-0.24	+0.50	81.73	0.62	82.07
填挖高度(m)	0.00	0.49	0.33	0.32	0.03	0.00
设计高程(m)	81.85	81.79	81.77	81.81	81.99	82.04
地面高程(m)	81.85	81.30	81.43	81.49	81.96	82.03
里程桩号	K0+000	+026.075	+041.016	+046.577	+062.121	+091.998
						K0+105



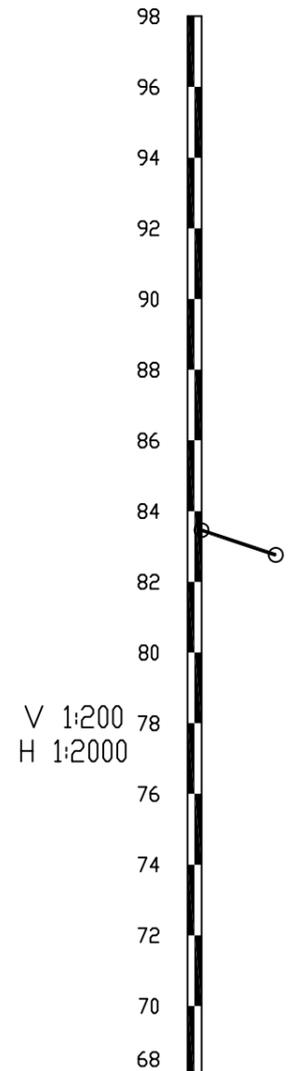
地质概况	原有旧路			
坡度(%)坡长(m)	82.52	-0.36		82.32
	0.00	56.00		0.00
填挖高度(m)	0.00	0.23	-0.15	-0.04
设计高程(m)	82.52	82.45	82.41	82.34
地面高程(m)	82.52	82.22	82.56	82.38
里程桩号	K0+000	+018.204	+031.395	+050



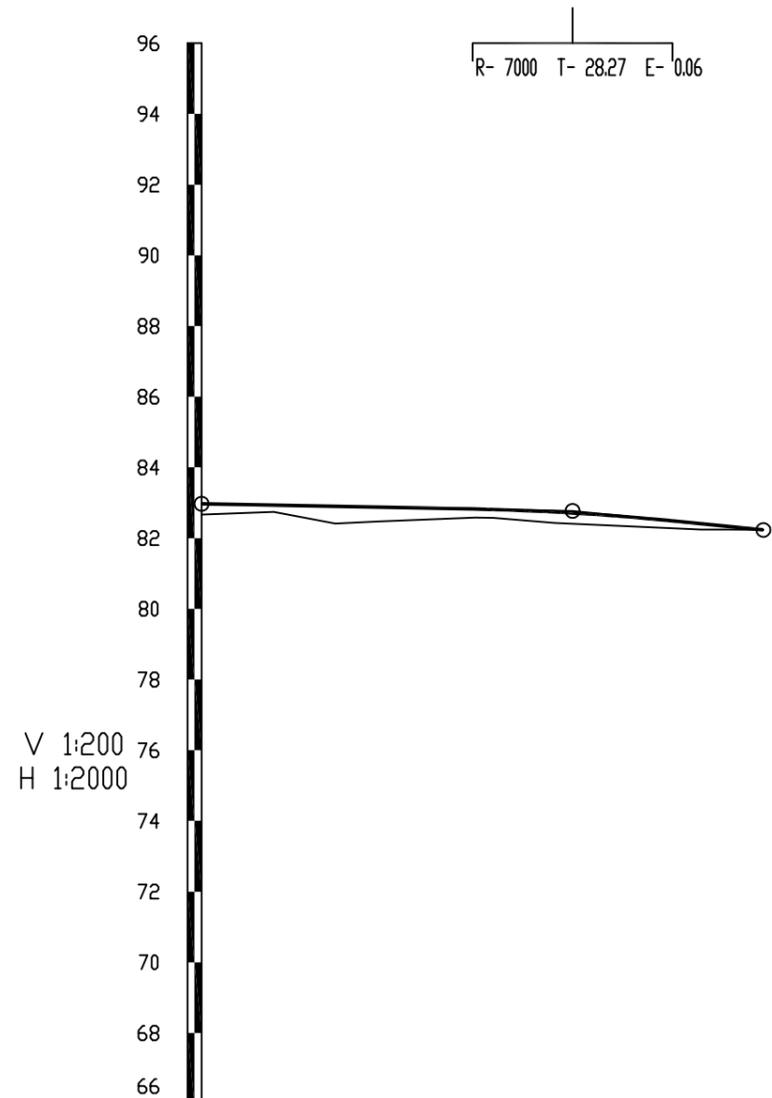
地质概况	原有旧路									
坡度(%)坡长(m)	82.18	1.04		+0.80		83.01	-1.53		81.89	81.89
填挖高度(m)	0.00	-0.15	0.25	0.30		0.25	0.19	0.19	0.00	0.00
设计高程(m)	82.18	82.47	82.64	82.67		82.68	82.23	82.23	81.89	81.89
地面高程(m)	82.18	82.62	82.39	82.37		82.33	82.04	82.04	81.89	81.89
里程桩号	K0+000	+027.839	+050	+056.998		+097.606	+130.966		K0+153	K0+153



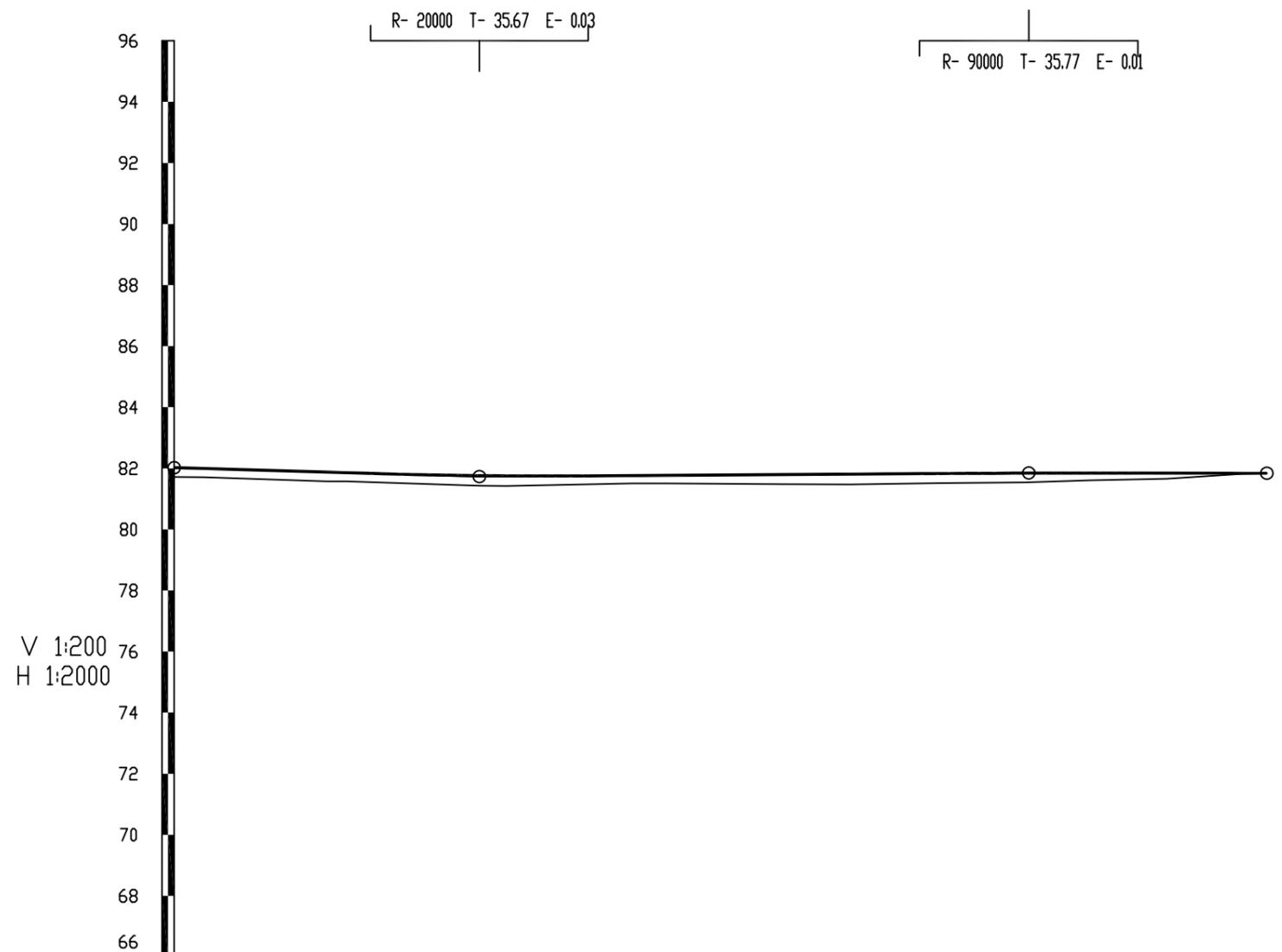
地质概况	原有旧路																					
坡度(%)坡长(m)	83.12	1.05	65.00	+0.65	83.80	-0.10	205.00	0.28	0.27	0.39	+2.70	83.60	-0.51	+3.50	83.19	-0.24	82.90					
填挖高度(m)	0.30	0.07	0.27	0.35	0.34	0.36	0.23	0.26	0.32	0.28	0.27	0.25	0.33	0.34	0.24	0.21	0.12	0.06	0.00			
设计高程(m)	83.12	83.35	83.55	83.62	83.72	83.74	83.73	83.72	83.70	83.67	83.66	83.62	83.58	83.56	83.45	83.23	83.10	83.07	83.00	82.95	82.90	
地面高程(m)	82.82	83.28	83.28	83.27	83.38	83.38	83.50	83.45	83.38	83.39	83.39	83.23	83.31	83.31	83.14	82.89	82.86	82.86	82.88	82.89	82.90	
里程桩号	K0+000	+023.025	+050	+061.793	+089.907	-1	+136.043	+150	+168.539	-2	+206.475	+246.584	+264.151	+271.164	-3	+297.502	+346.542	+389.336	-4	+430.115	+450	K0+471



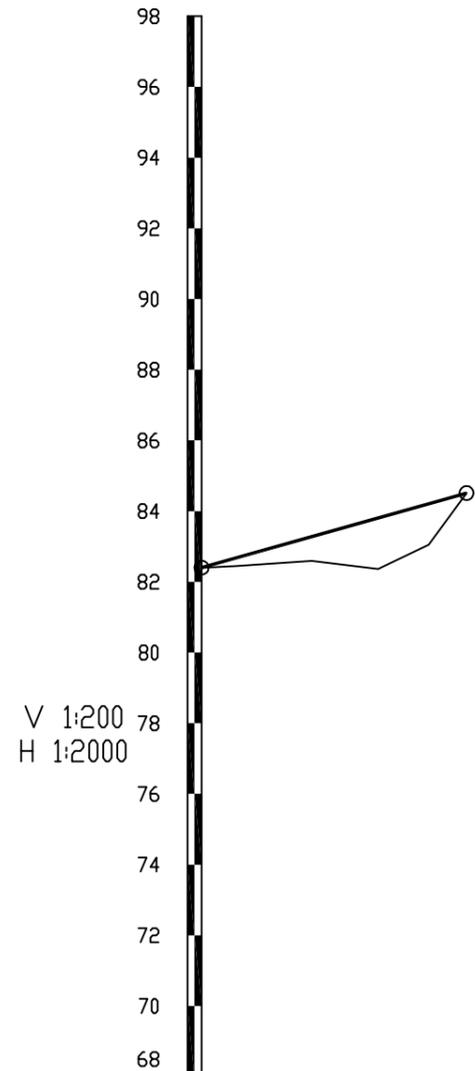
地质概况	
坡度(%)坡长(m)	21.08 / 83.46 / 82.76 / 33
填挖高度(m)	0.00 / 0.00
设计高程(m)	83.46 / 82.76
地面高程(m)	83.46 / 82.76
里程桩号	K0+000 / +021



地质概况	原有旧路										
坡度(%)坡长(m)	82.97	-0.19				105.00	82.77	54.00	-1.00		82.23
填挖高度(m)	0.30	0.19	0.49	0.40	0.24	0.24	0.31	0.17	0.08	0.00	
设计高程(m)	82.97	82.93	82.90	82.87	82.82	82.81	82.74	82.41	82.32	82.23	
地面高程(m)	82.67	82.74	82.41	82.48	82.58	82.57	82.43	82.24	82.24	82.23	
里程桩号	K0+000	+020.404	+037.878	+050	+077.505	+082.658	-1	+141.351	+150	K0+159	

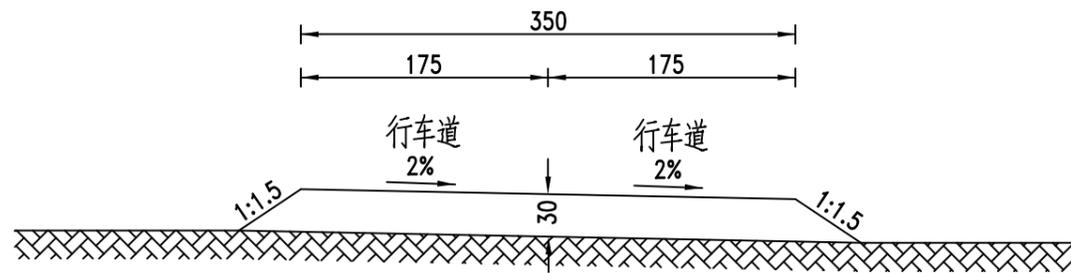


地质概况	原有旧路															
坡度(%)坡长(m)	82.02	-0.29		+100	81.73	0.07				+280	81.85	-0.01		81.84		
填挖高度(m)	0.28	100.00	0.30	0.29	0.33	0.33	0.26	0.26	0.31	0.34	0.32	0.30	0.24	0.18	0.02	0.00
设计高程(m)	81.99	81.88	81.86	81.76	81.75	81.76	81.77	81.80	81.81	81.83	81.84	81.85	81.84	81.84	81.84	81.84
地面高程(m)	81.71	81.58	81.57	81.43	81.42	81.50	81.51	81.48	81.47	81.51	81.54	81.61	81.66	81.82	81.84	81.84
里程桩号	K0+000	+050	+056.369	-1	+08.896	+150	+161.402	-2	+221.573	+250	+278.898	-3	+325.137	+350	K0+358	



地质概况	原有旧路				
坡度(%)坡长(m)	82.40	2.81			
填挖高度(m)	0.23	0.69	1.44	1.16	0.00
设计高程(m)	82.49	83.28	83.81	84.21	84.51
地面高程(m)	82.49	82.59	82.36	83.05	84.51
里程桩号	K0+000.078	+031.136	+050	+064.254	

标准横断面图

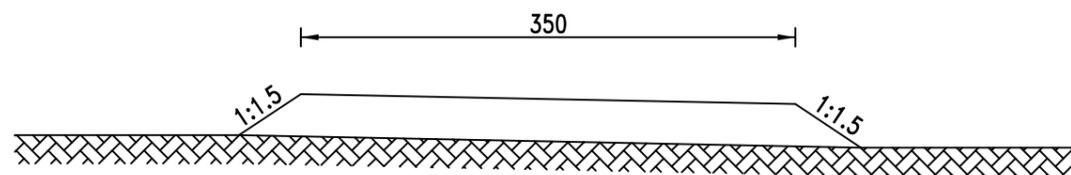


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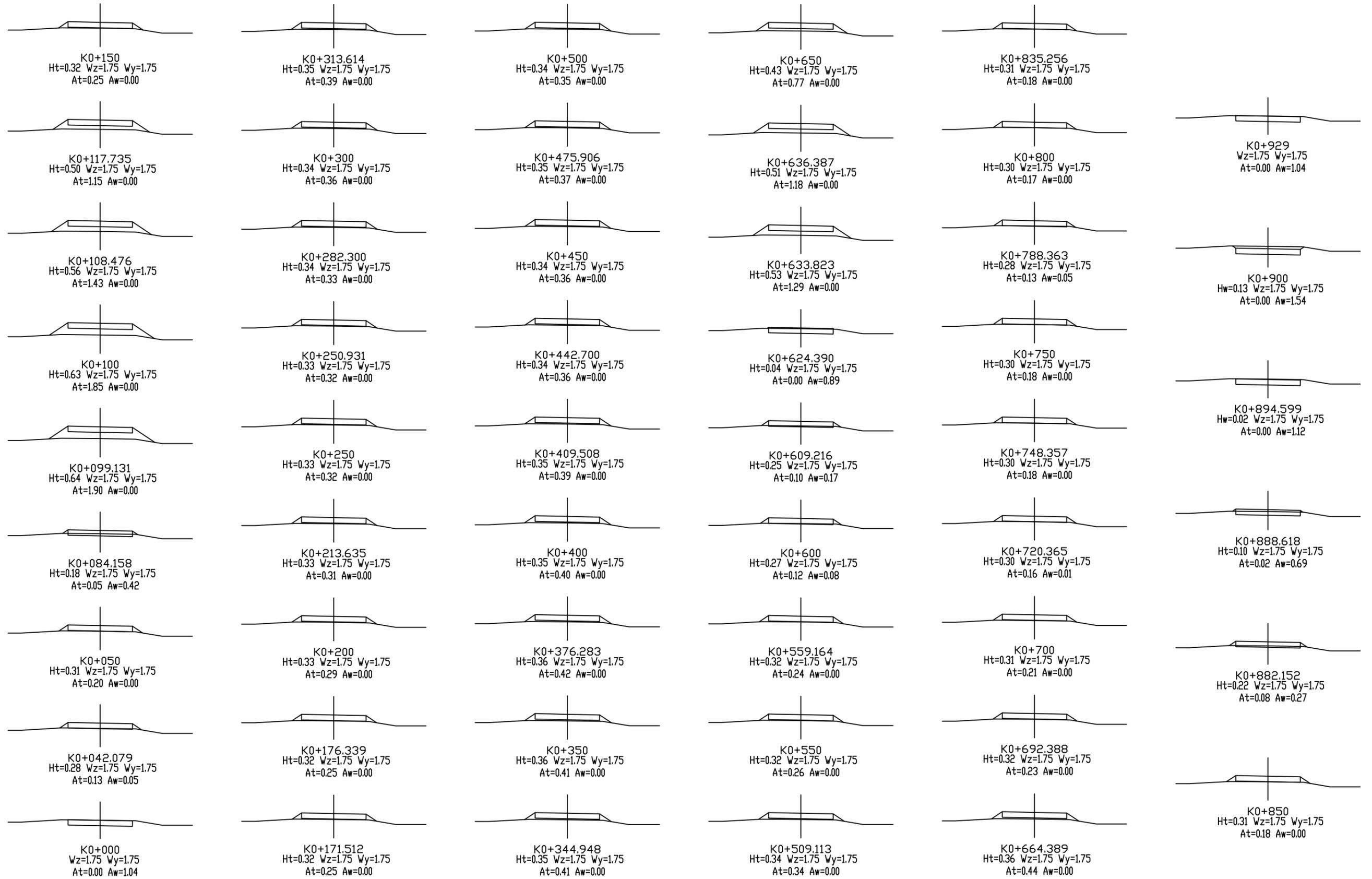
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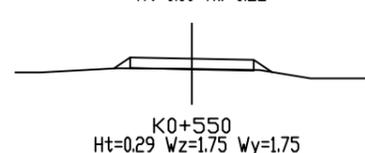
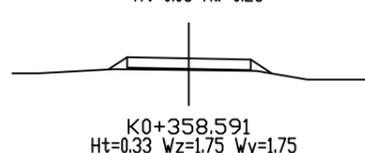
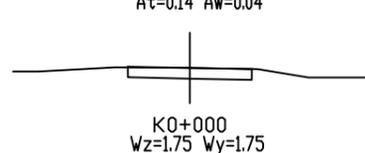
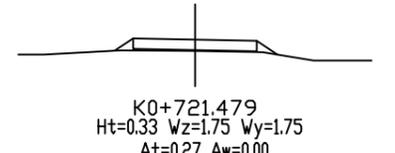
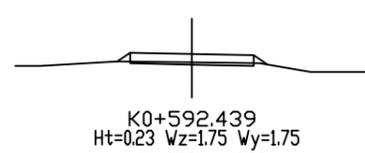
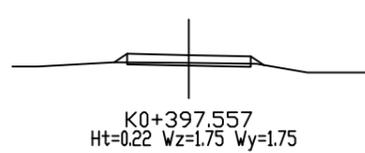
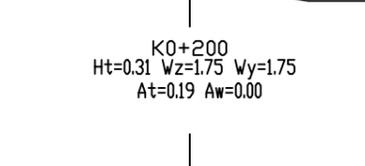
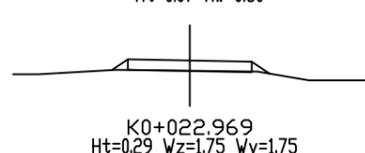
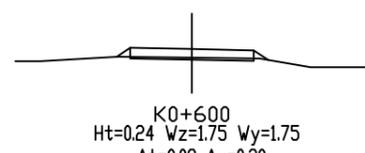
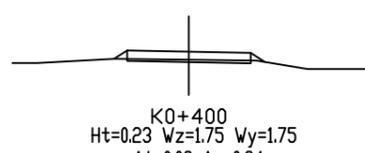
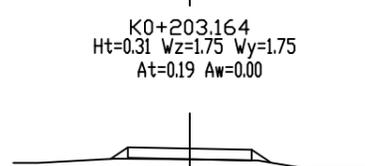
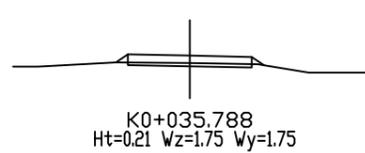
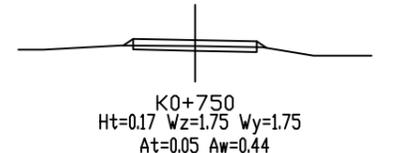
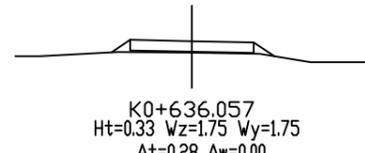
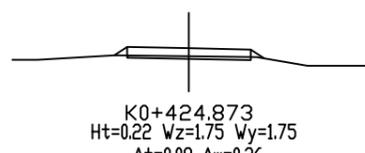
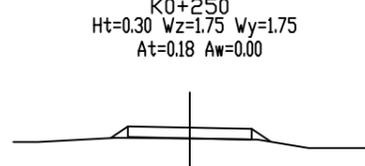
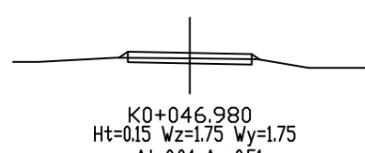
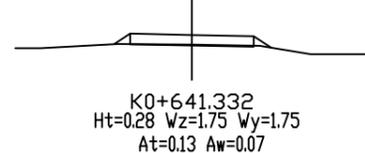
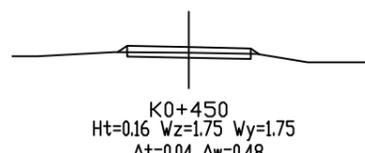
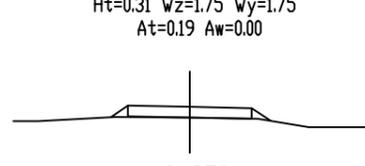
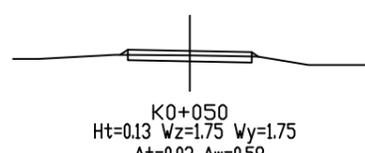
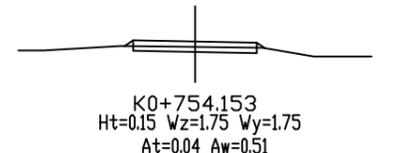
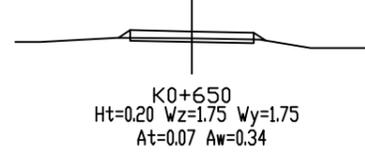
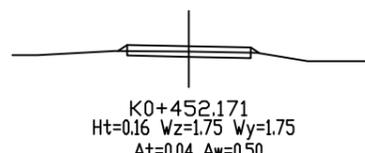
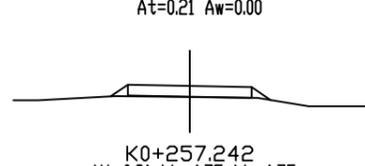
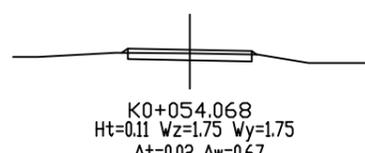
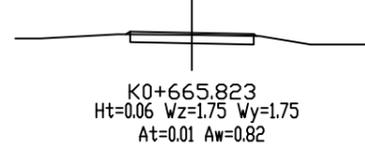
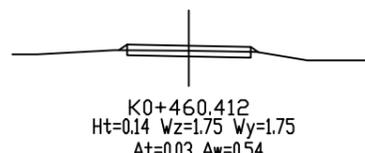
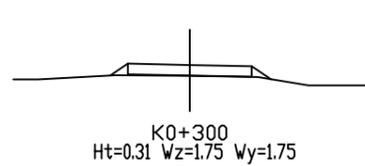
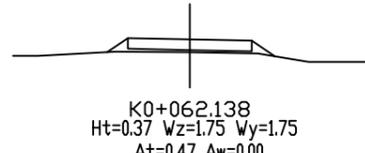
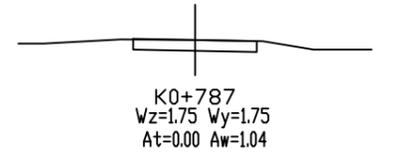
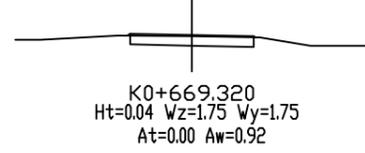
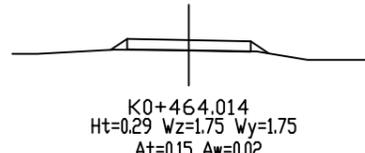
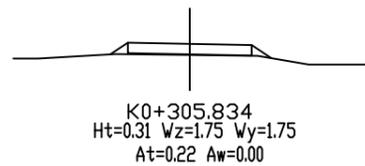
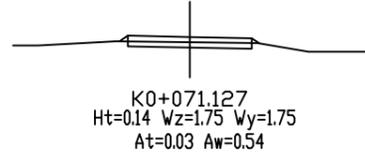
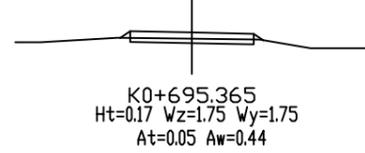
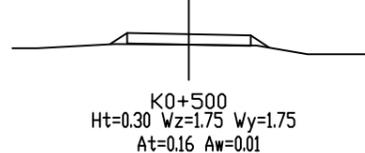
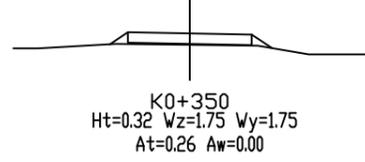
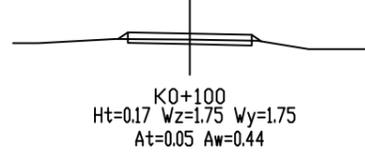
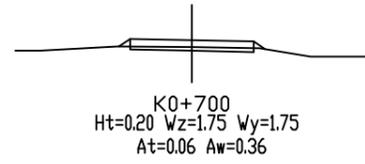
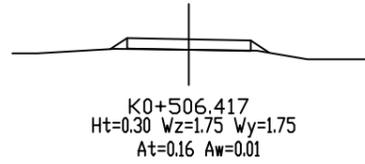
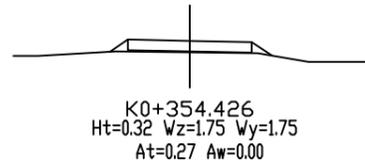
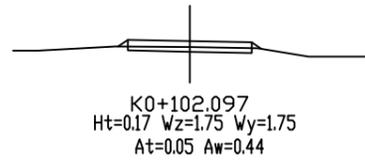
2、对路槽底面以下深度应满足：填方路段0~0.8m压实度>93%，0.8m以下压实度>90%。零填及挖方路段0~0.3m压实度>93%。

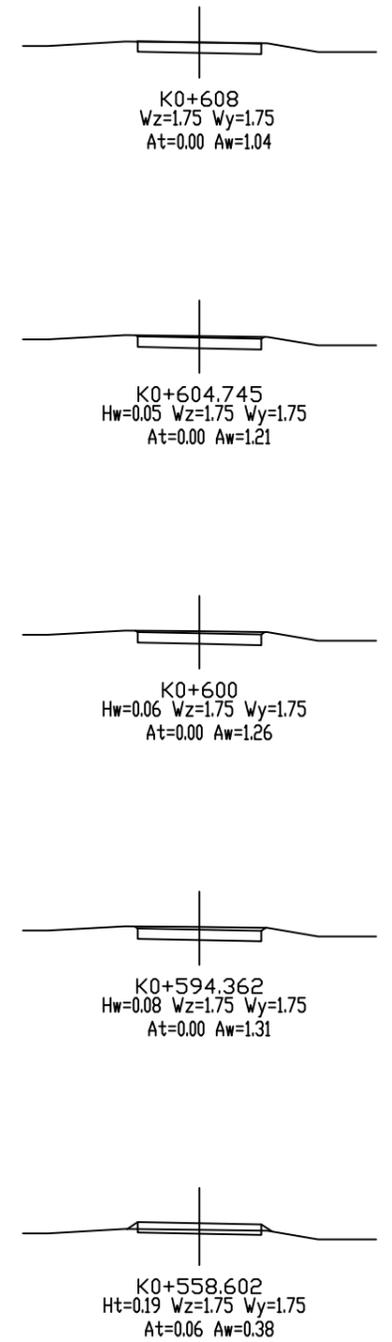
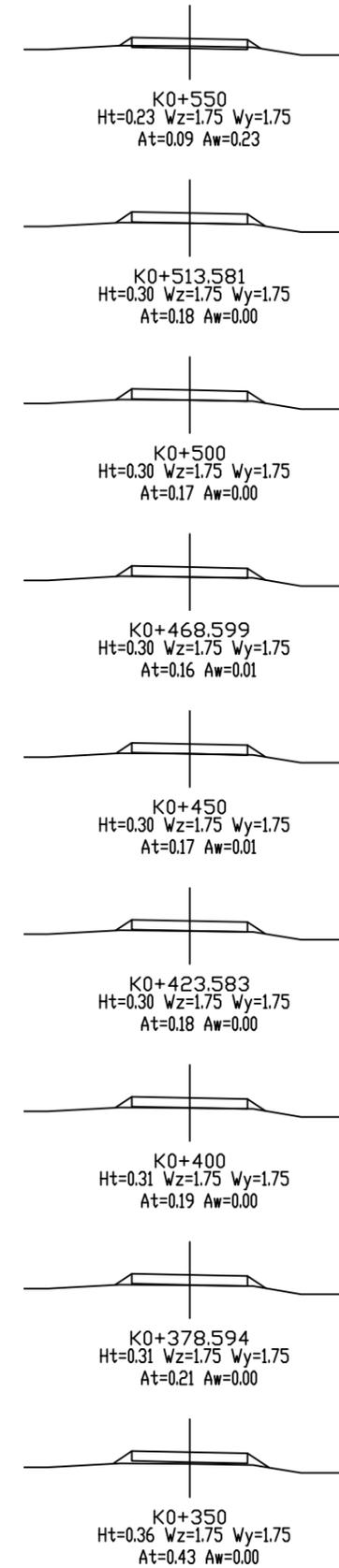
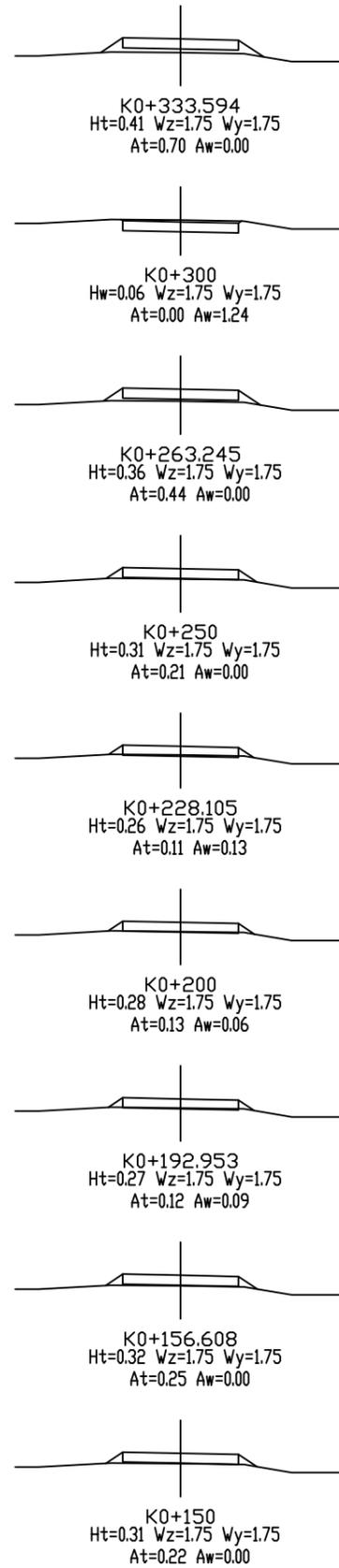
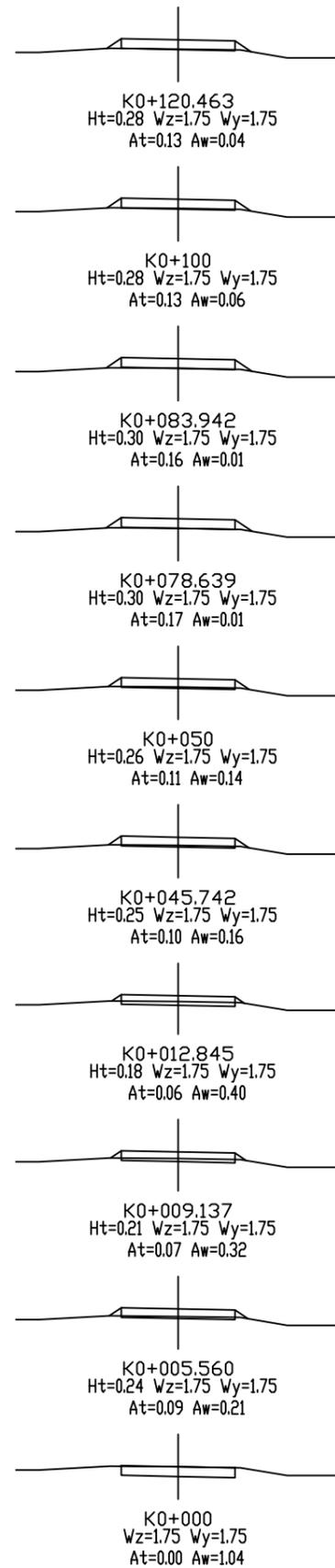
一般路基设计图

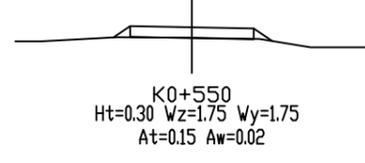
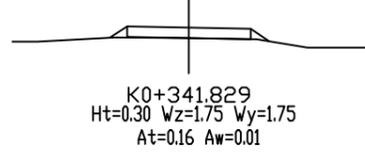
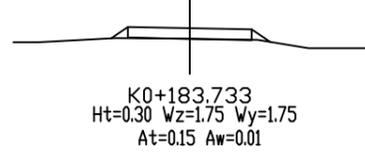
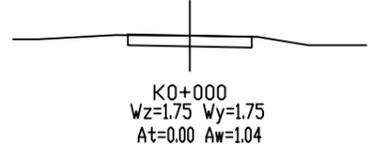
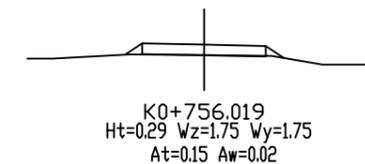
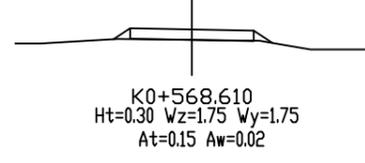
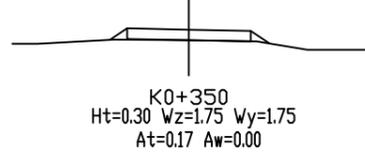
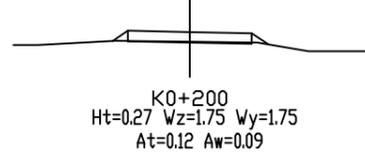
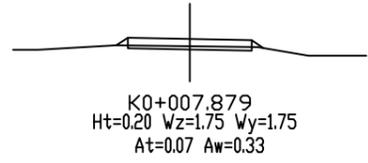
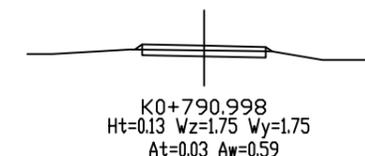
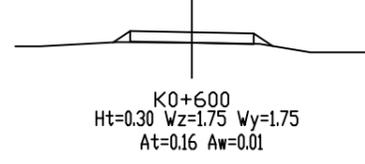
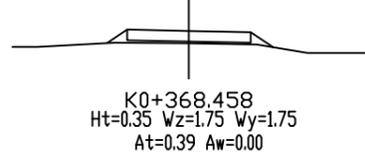
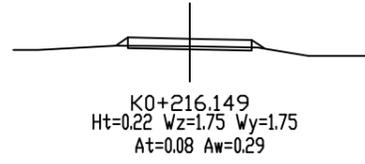
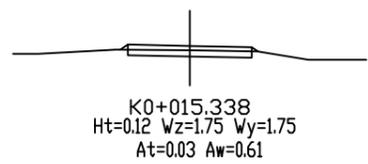
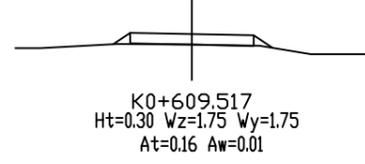
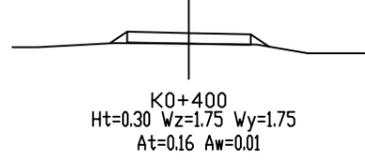
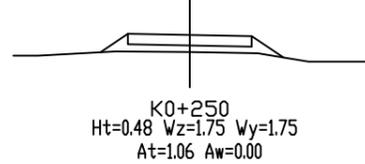
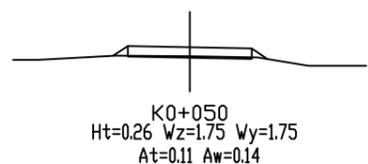
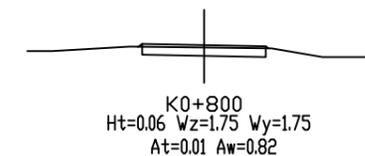
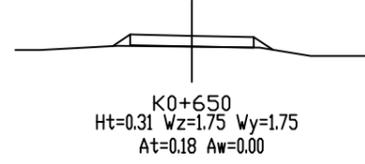
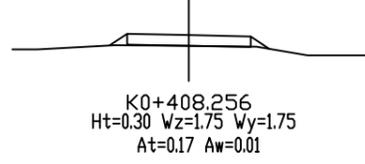
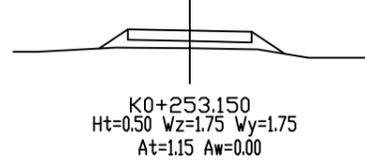
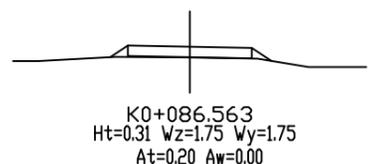
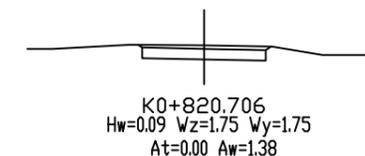
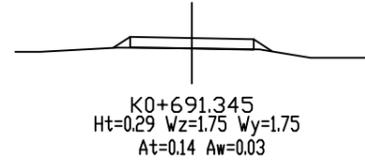
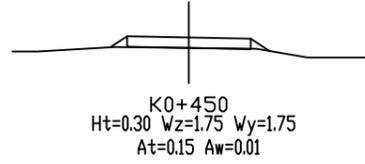
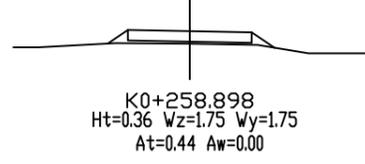
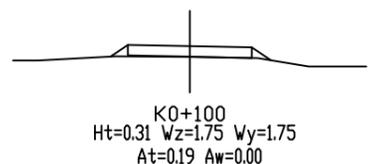
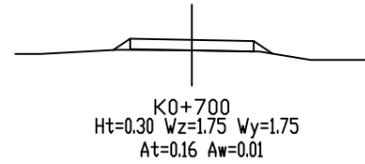
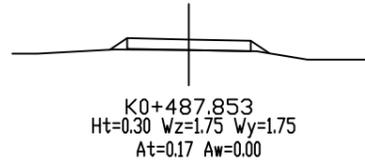
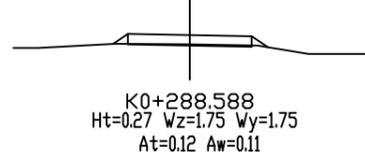
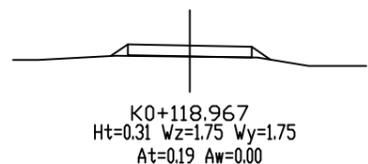
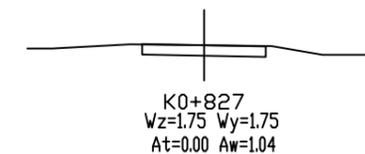
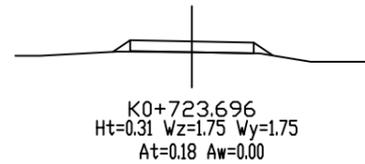
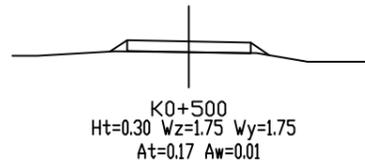
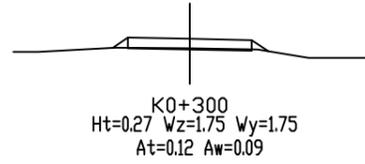
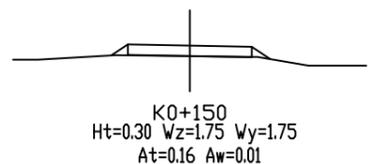
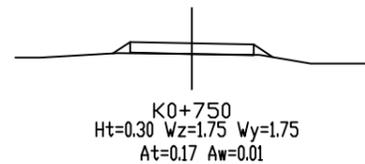
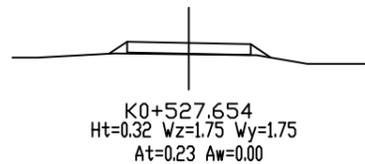
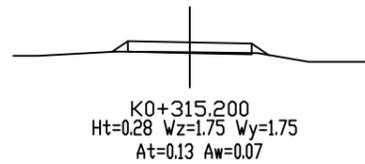
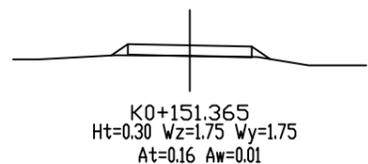


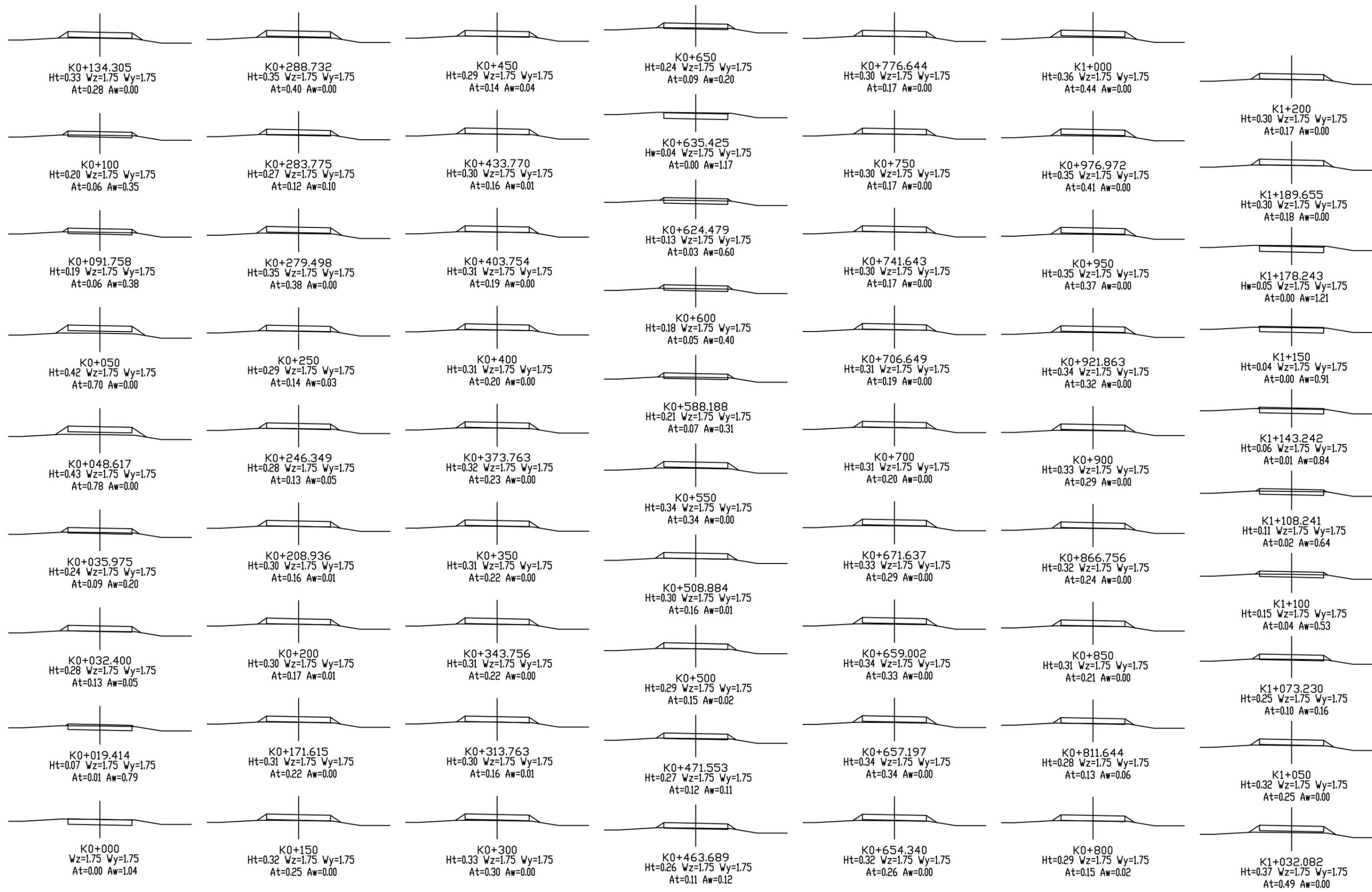
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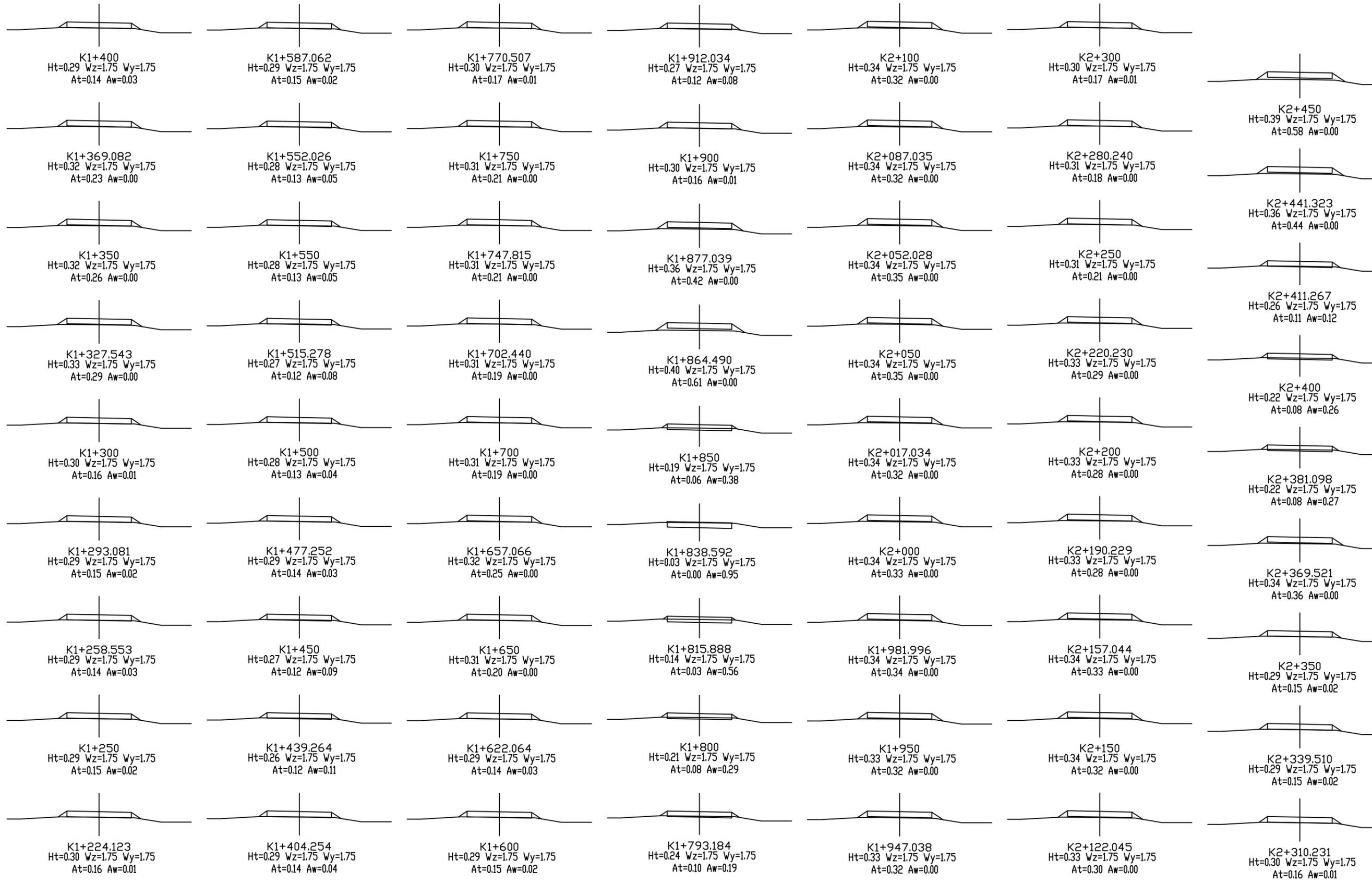


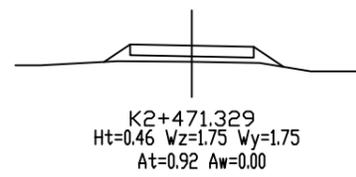
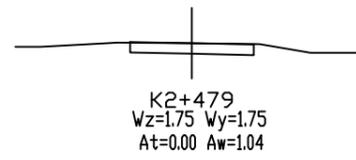


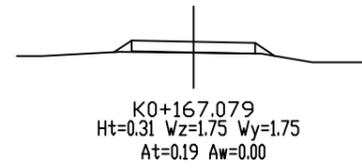
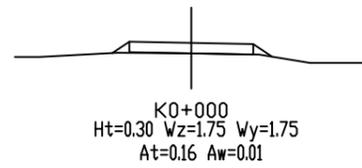
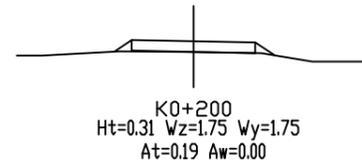
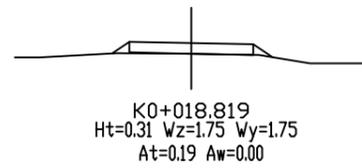
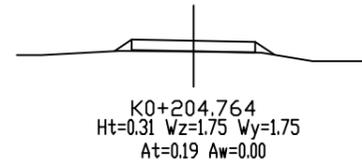
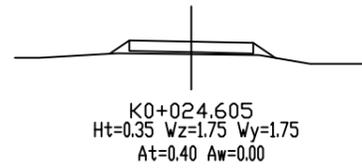
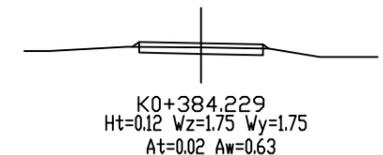
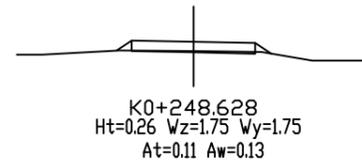
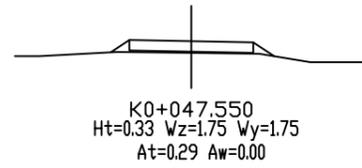
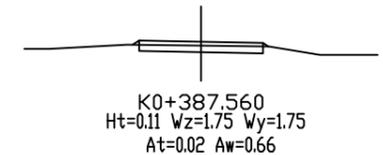
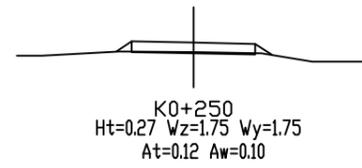
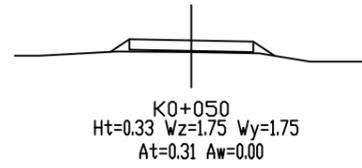
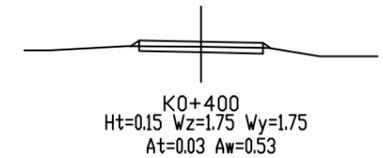
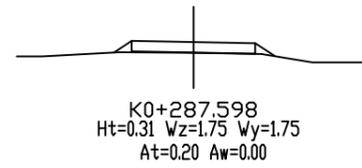
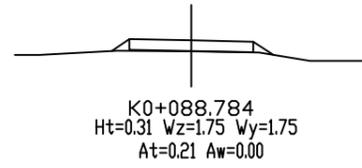
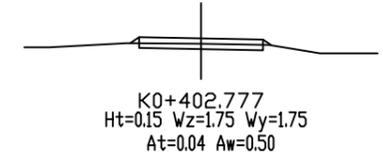
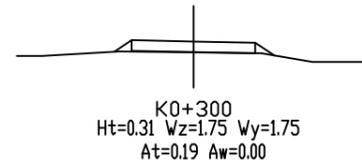
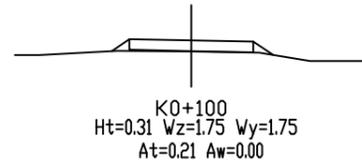
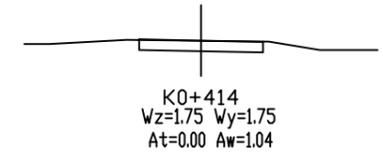
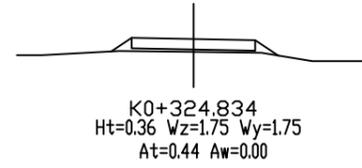
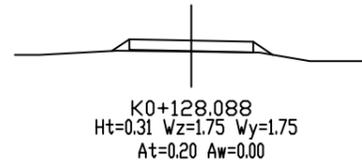
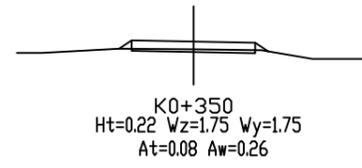
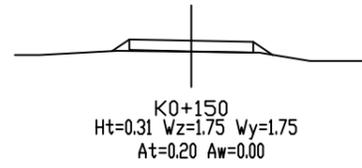


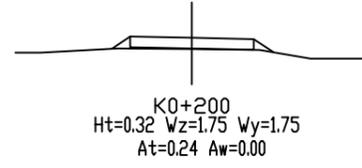
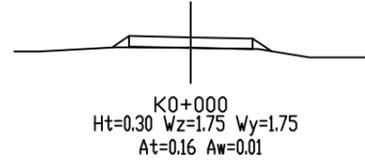
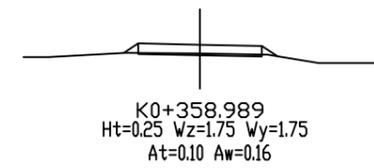
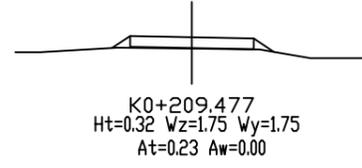
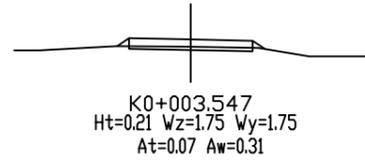
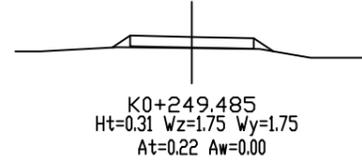
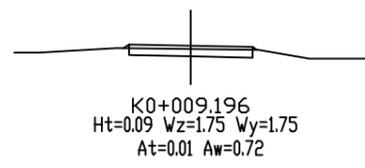
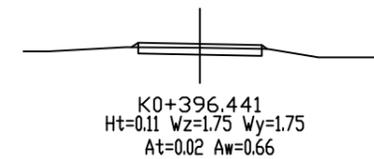
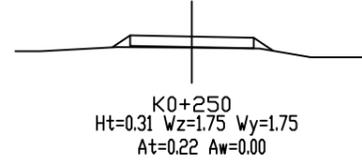
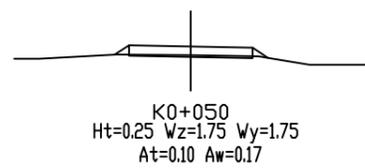
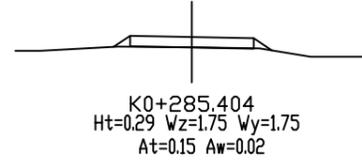
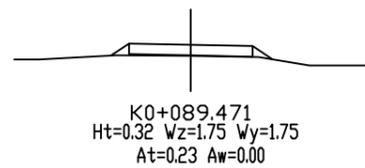
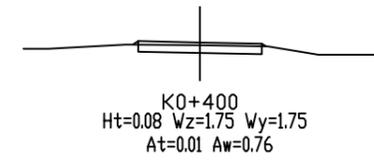
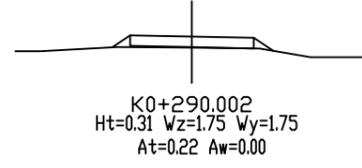
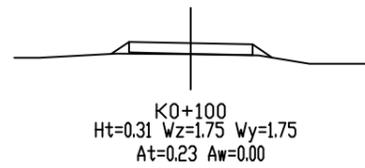
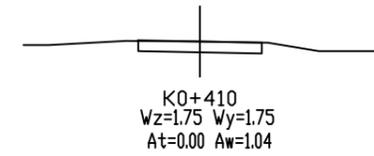
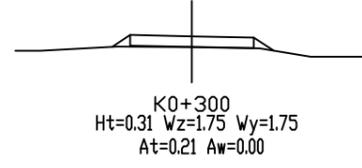
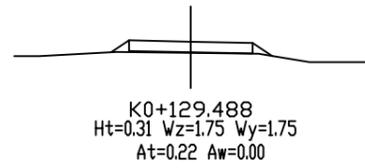
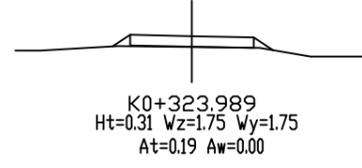
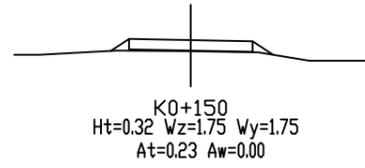
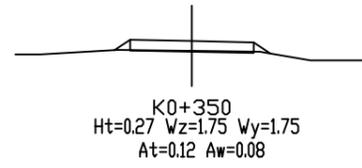
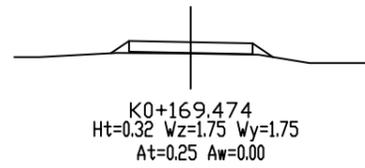


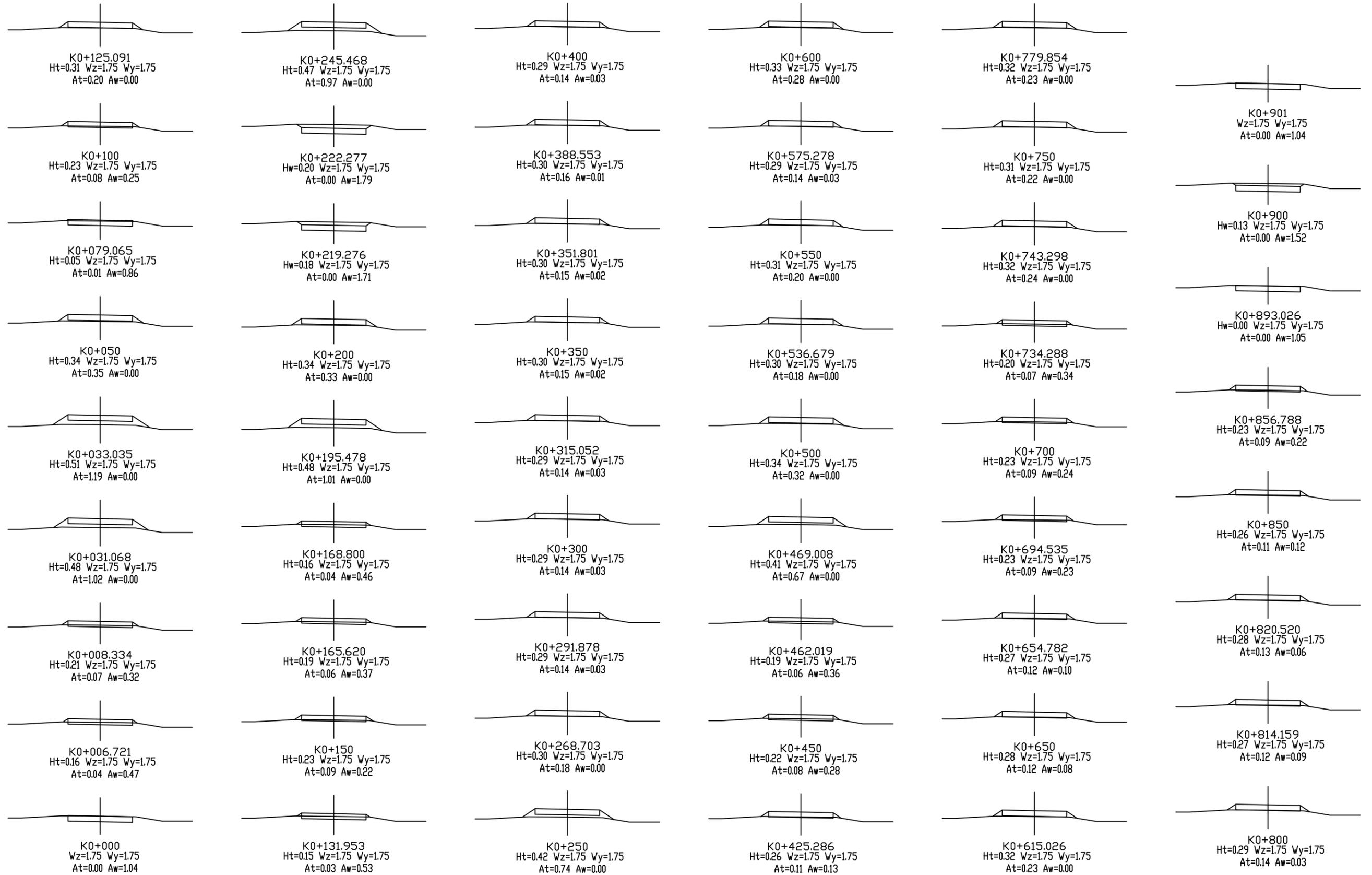


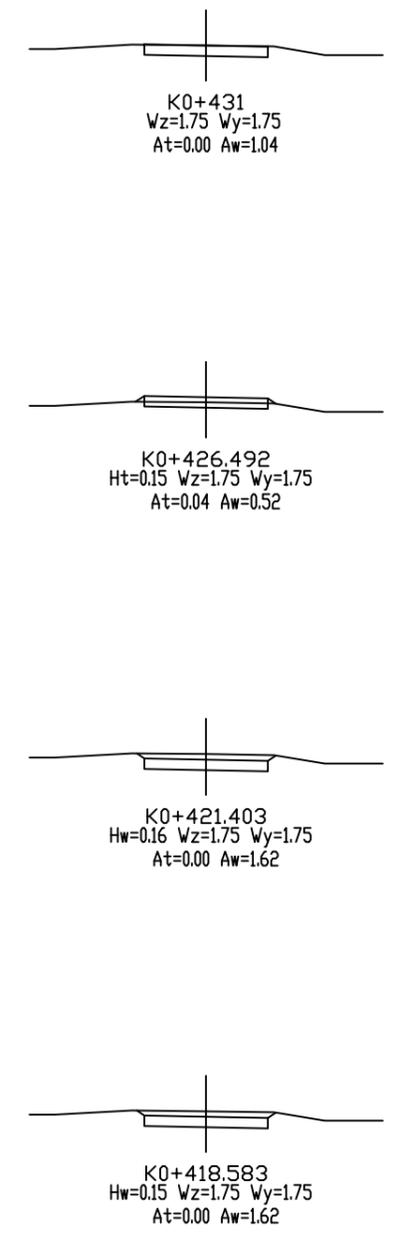
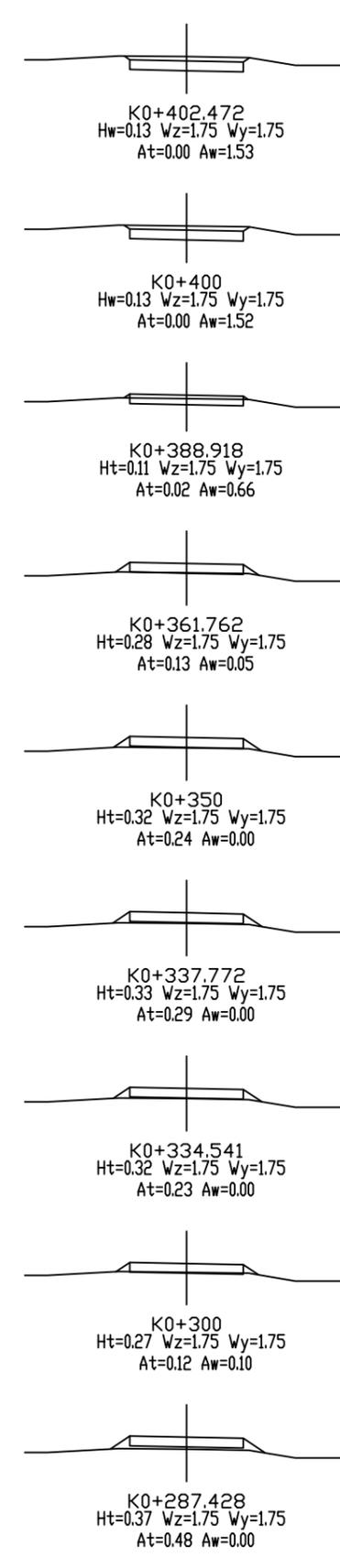
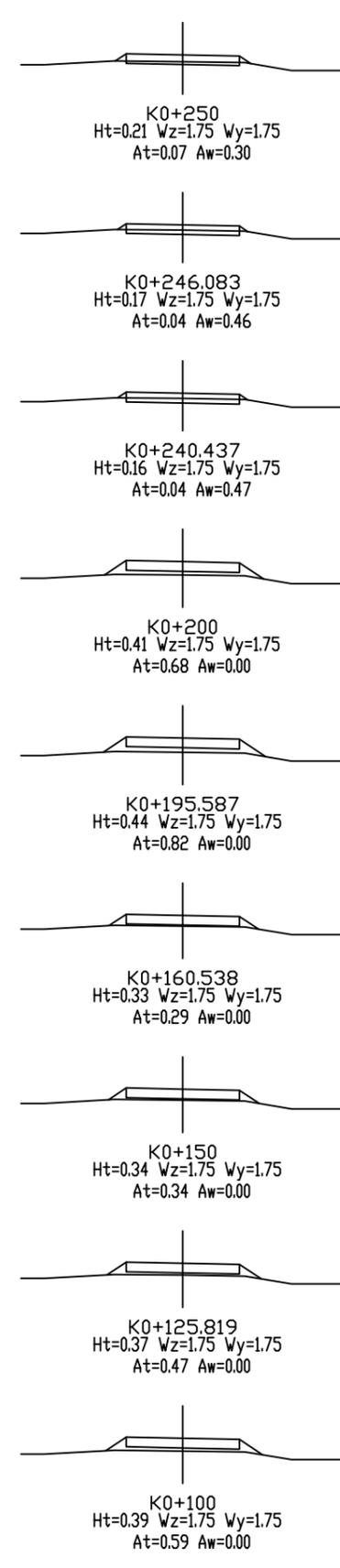
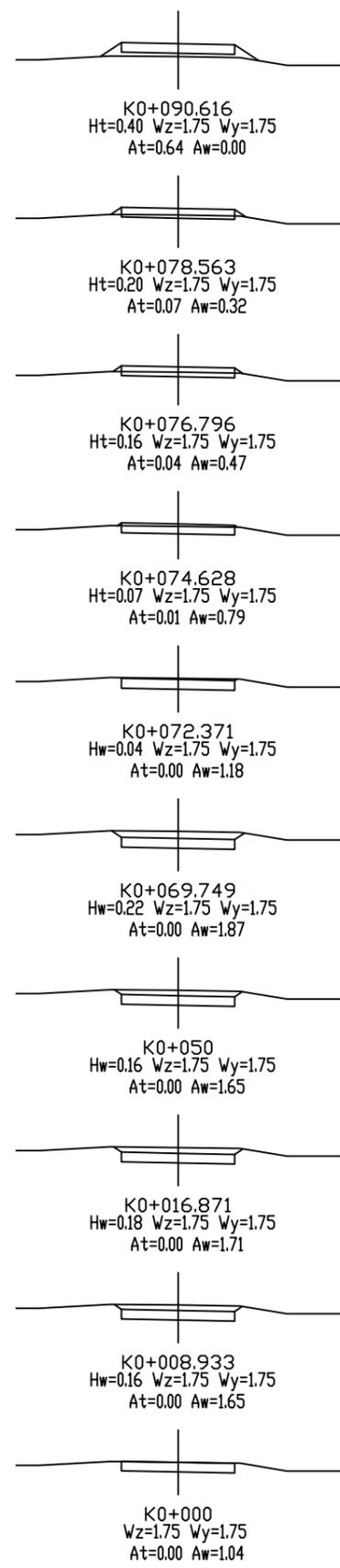


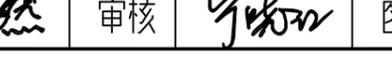
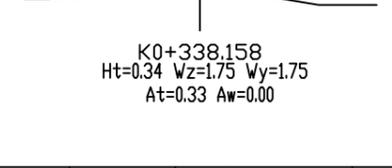
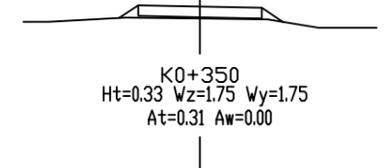
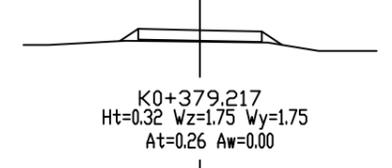
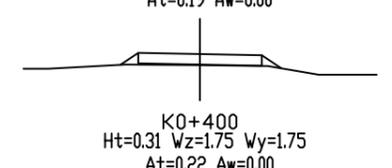
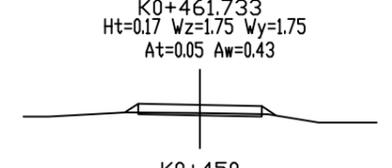
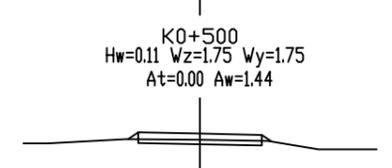
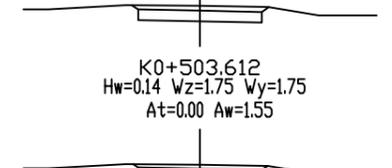
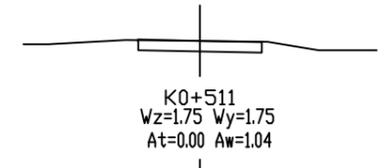
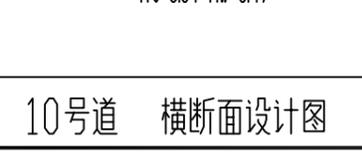
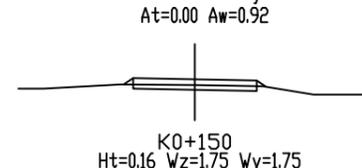
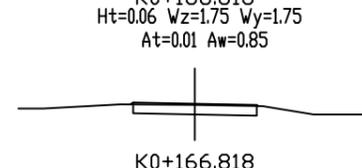
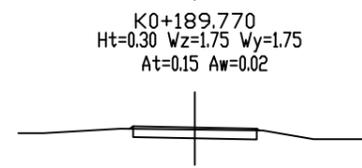
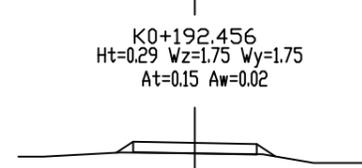
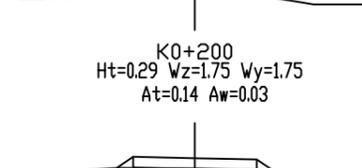
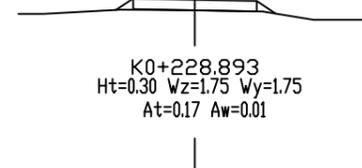
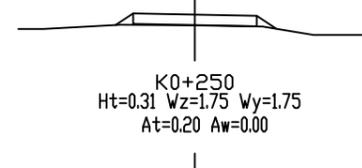
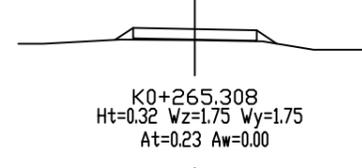
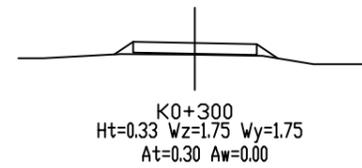
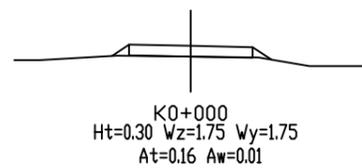
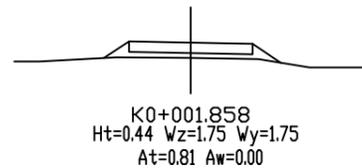
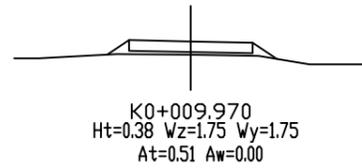
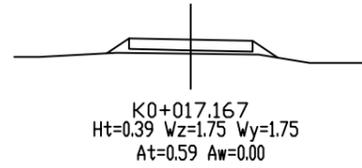
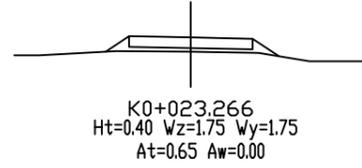
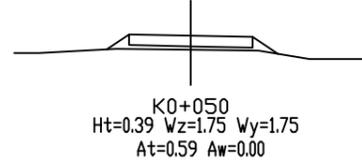
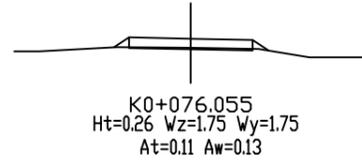
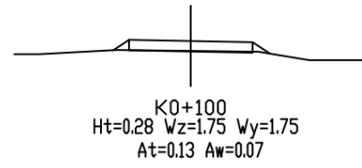
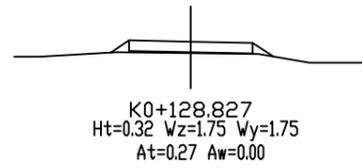


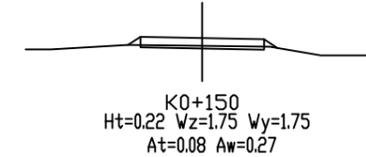
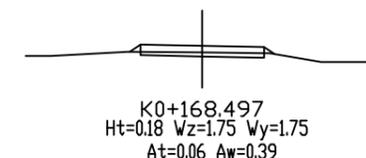
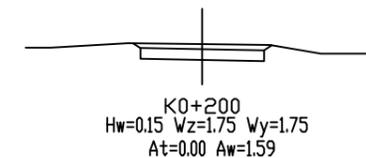
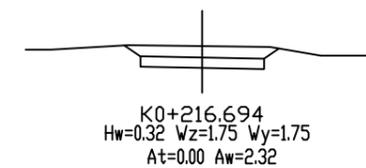
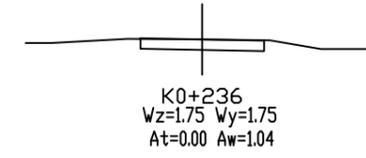
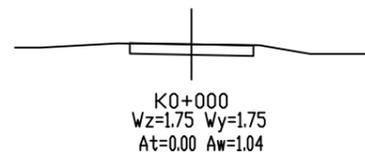
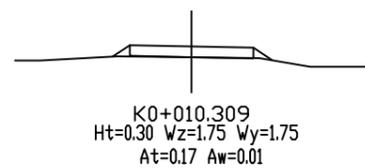
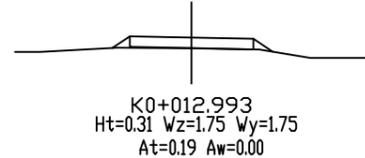
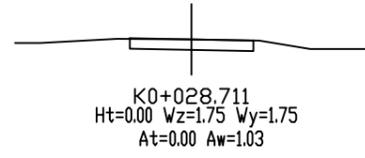
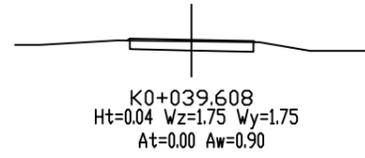
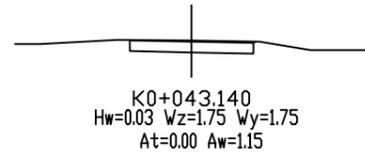
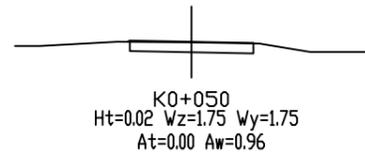
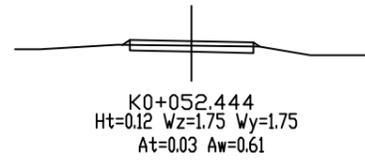
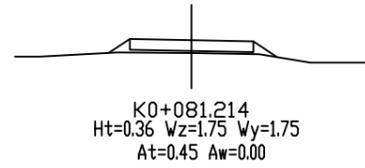
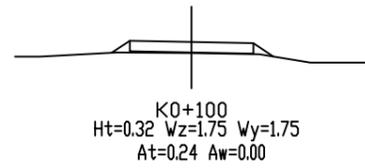


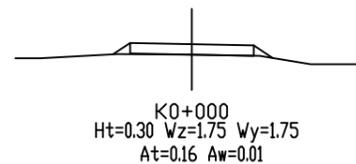
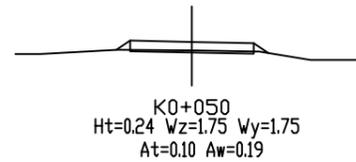
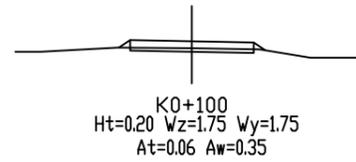
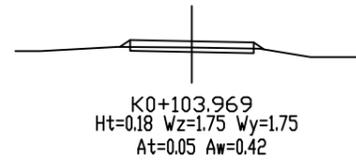
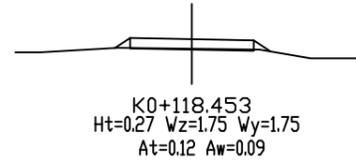
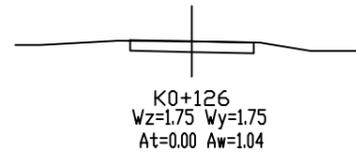


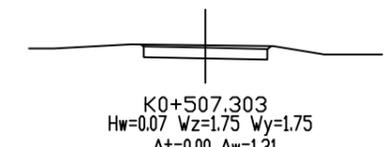
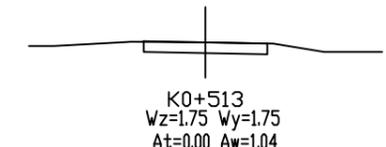
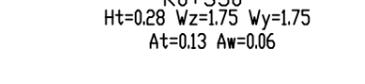
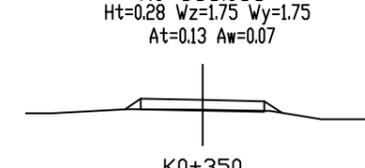
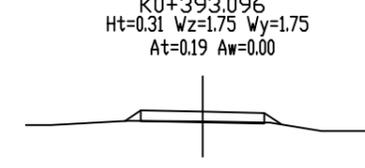
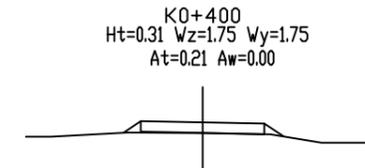
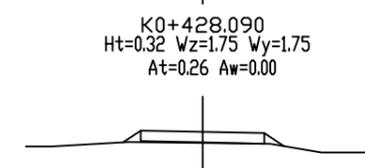
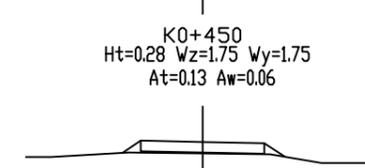
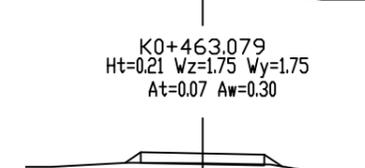
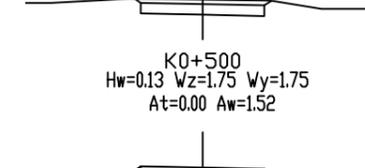
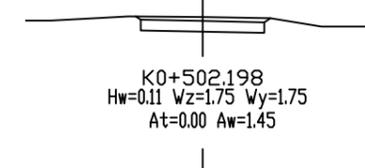
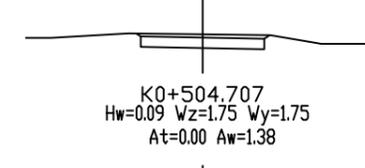
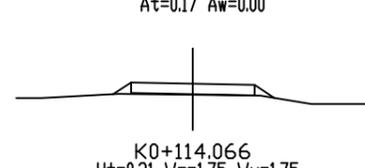
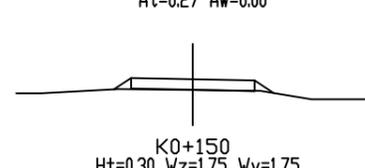
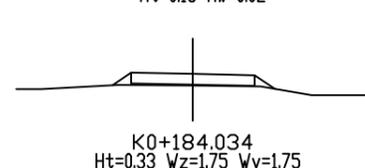
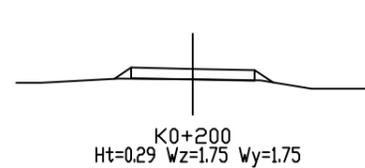
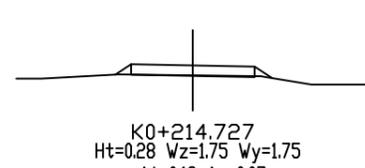
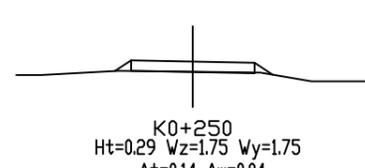
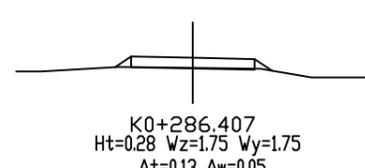
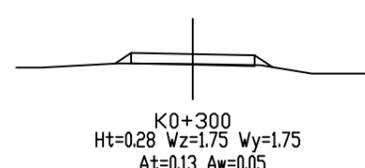
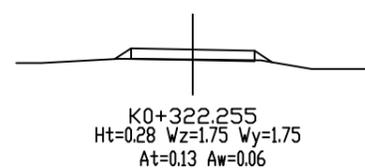
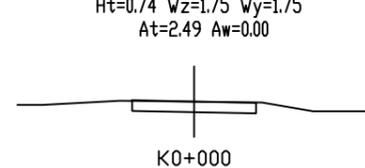
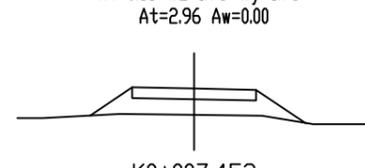
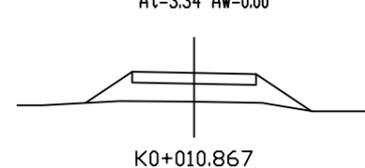
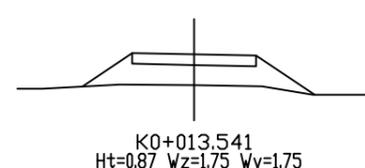
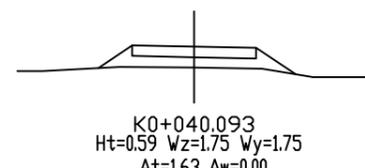
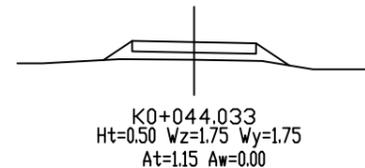
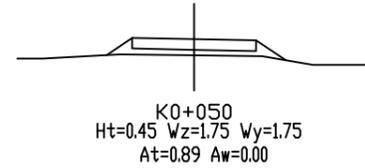
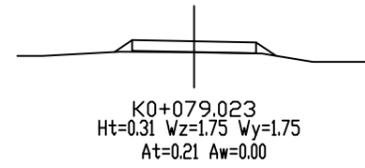
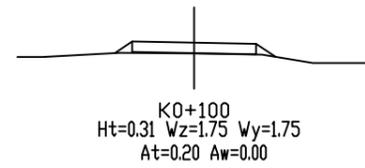


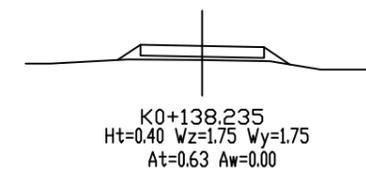
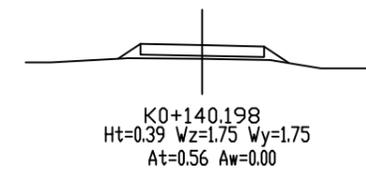
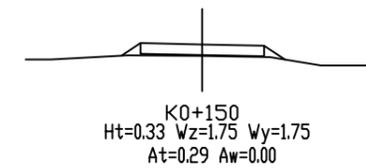
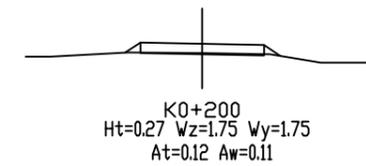
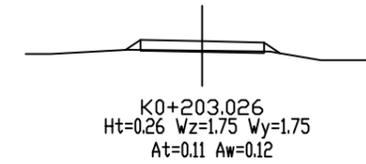
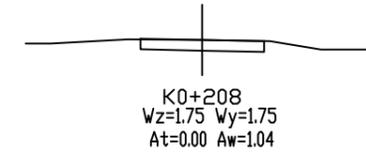
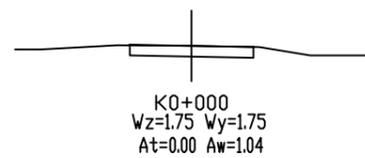
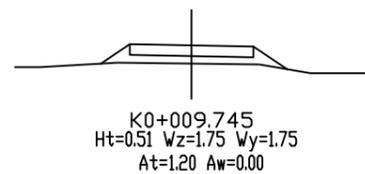
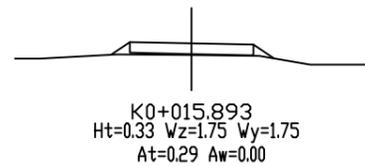
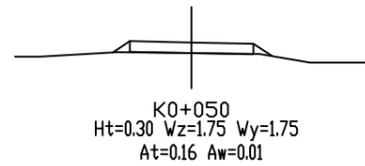
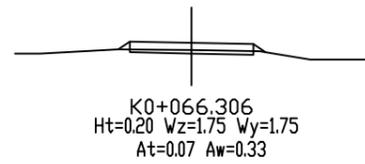
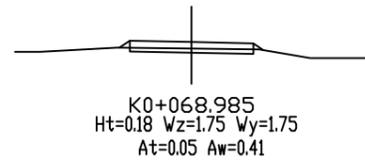
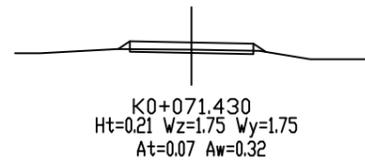
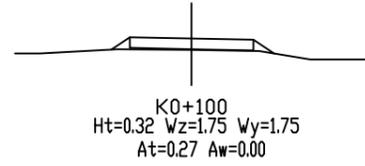
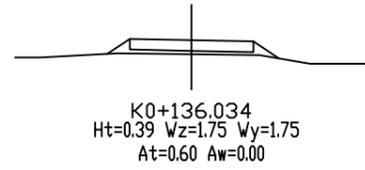


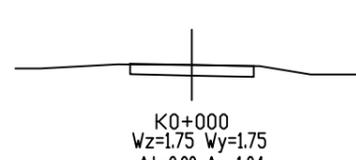
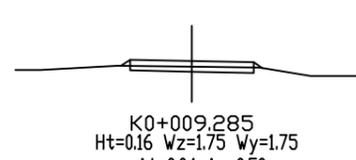
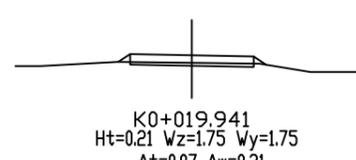
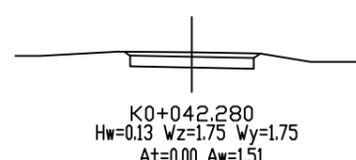
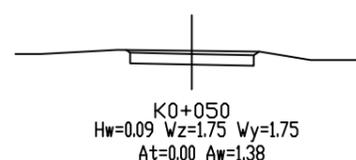
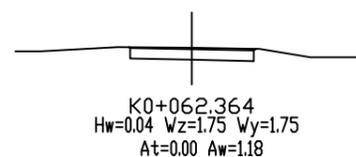
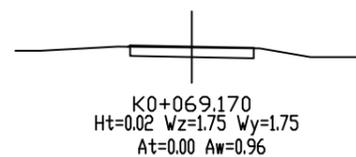
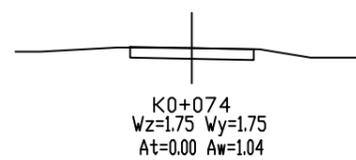


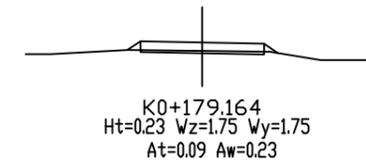
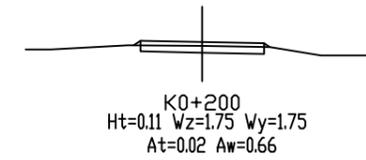
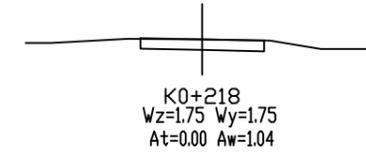
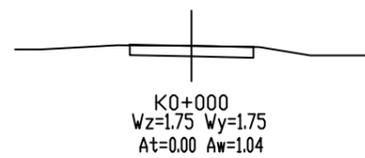
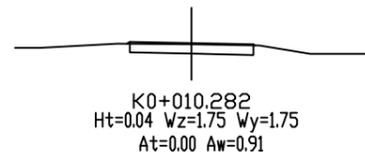
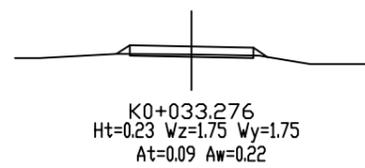
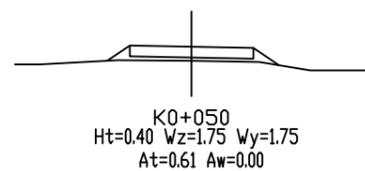
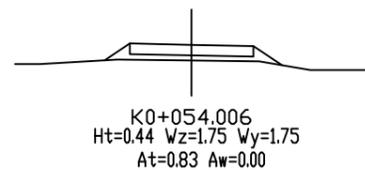
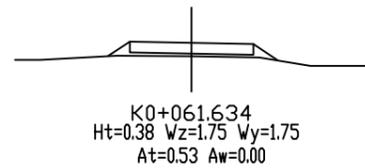
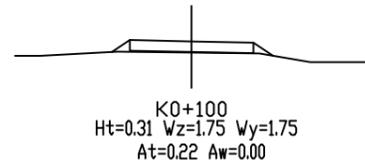
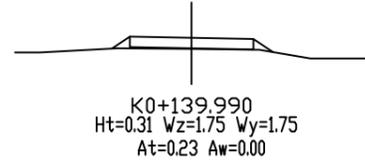
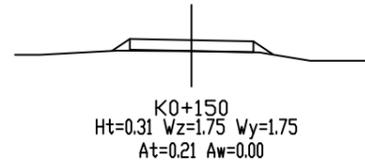


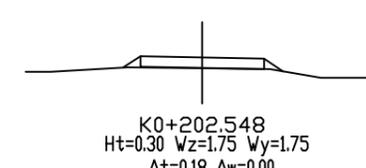
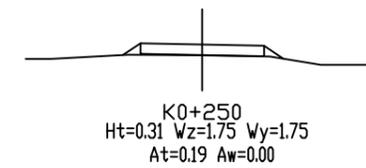
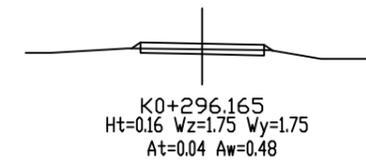
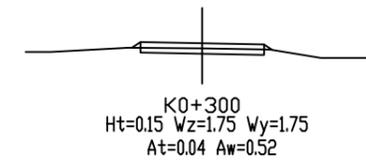
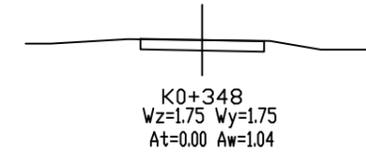
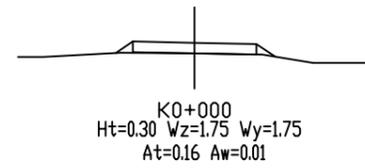
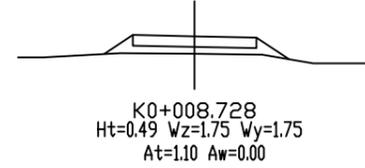
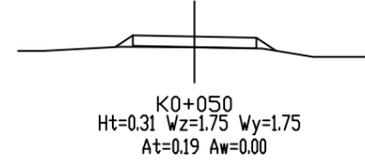
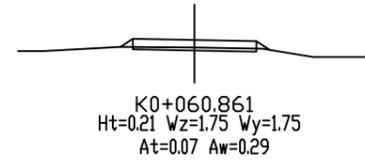
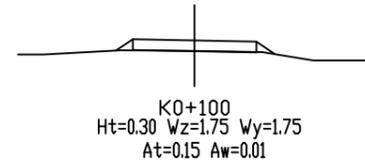
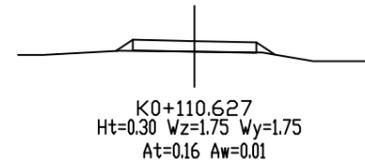
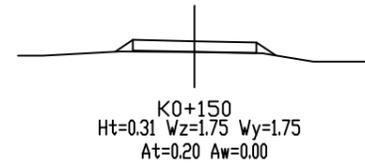
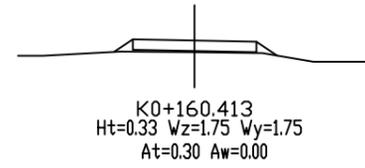
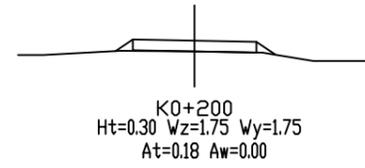


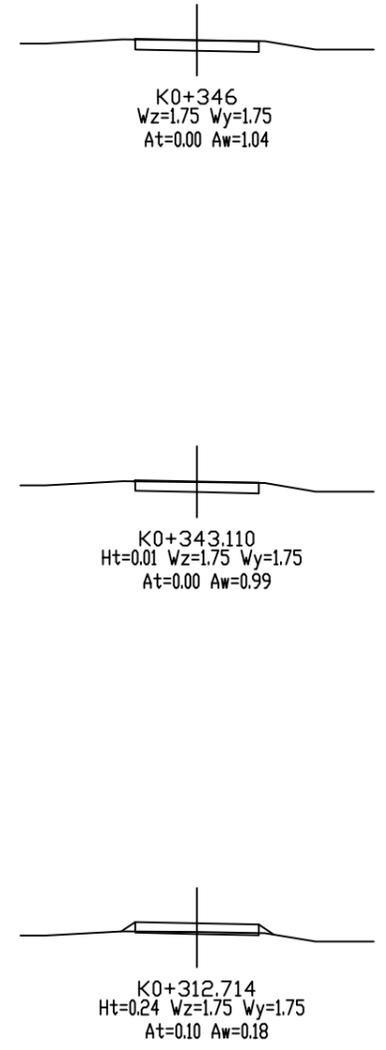
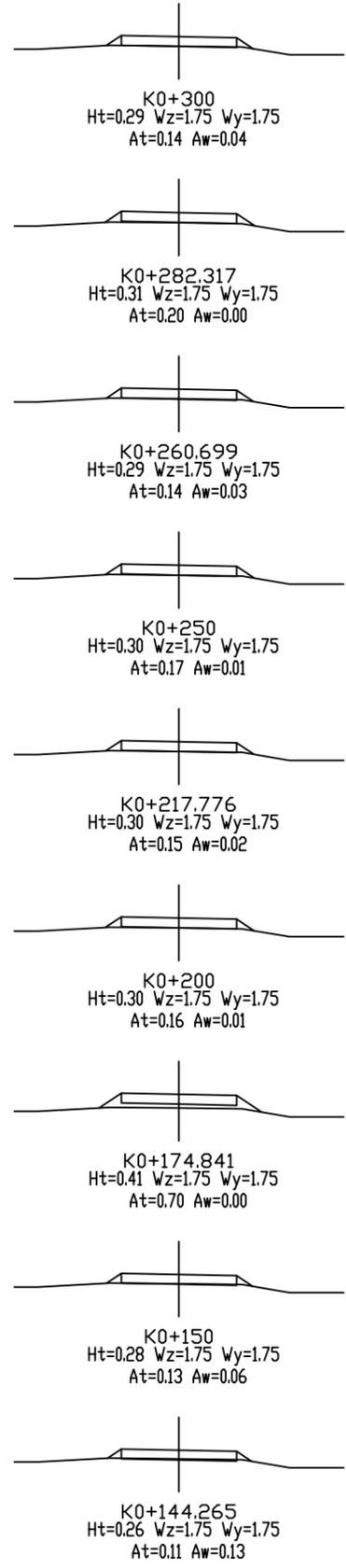
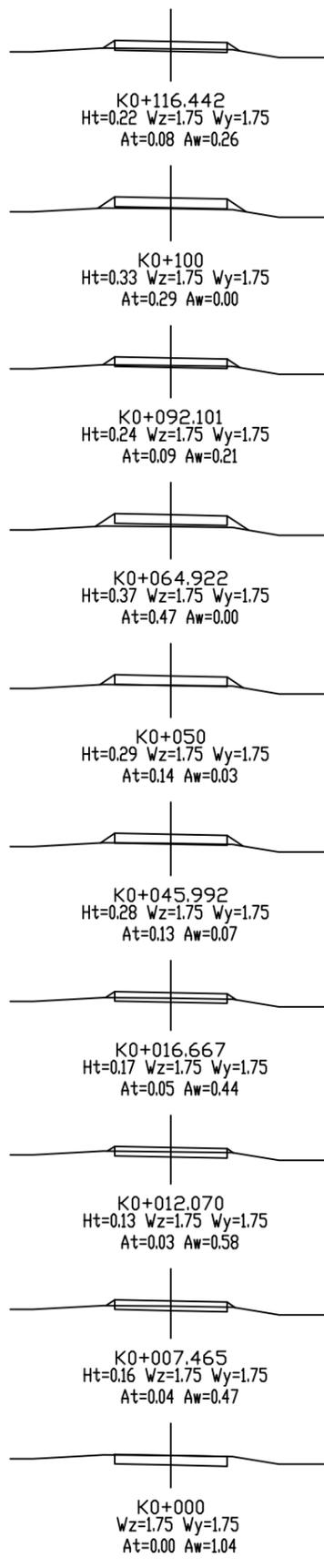


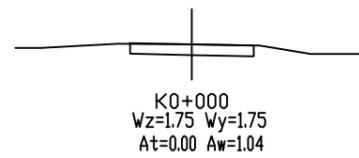
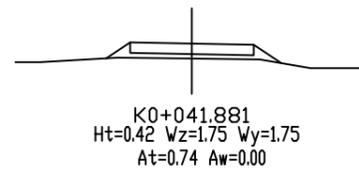
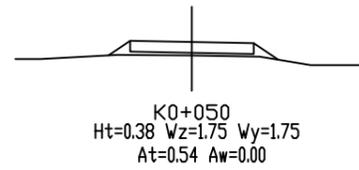
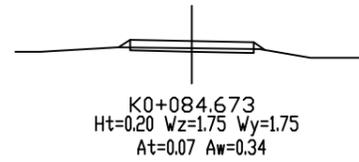
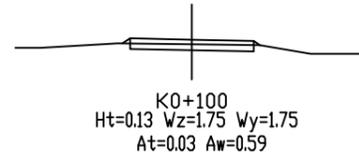
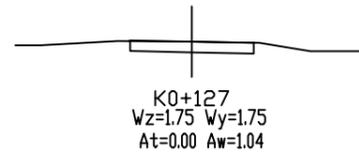


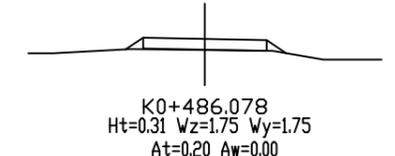
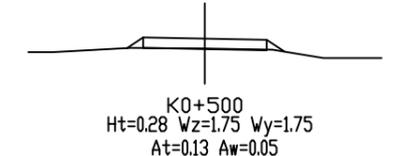
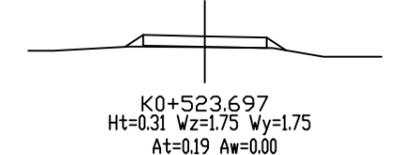
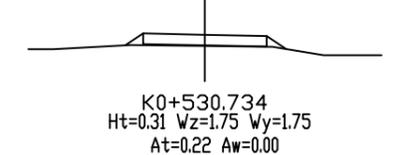
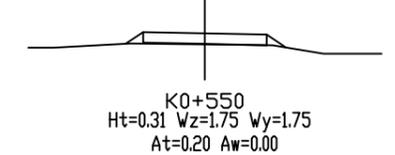
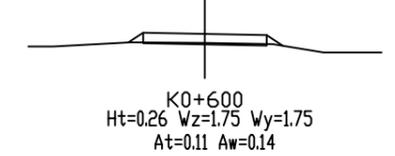
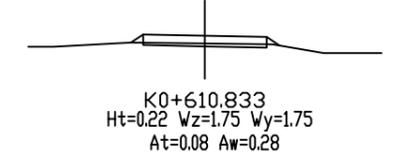
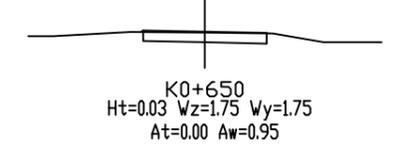
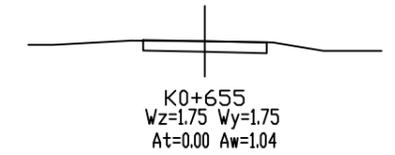
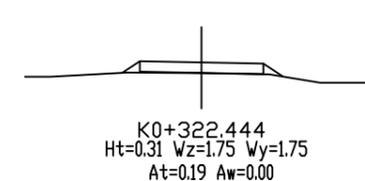
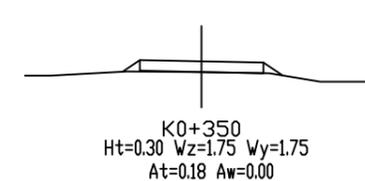
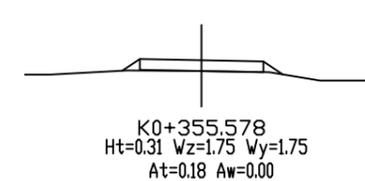
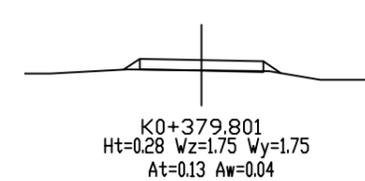
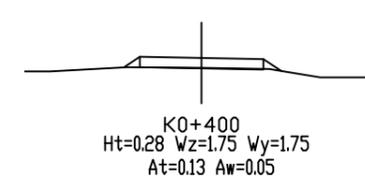
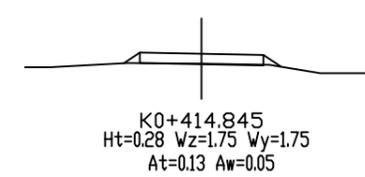
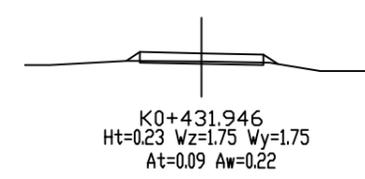
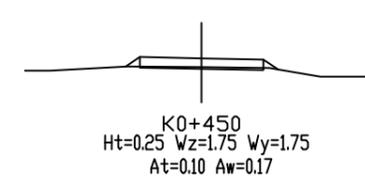
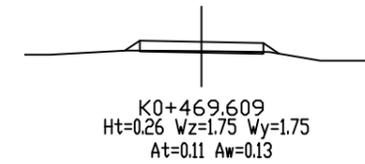
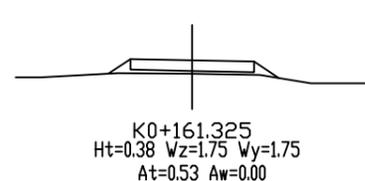
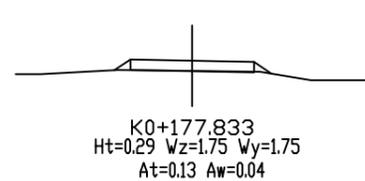
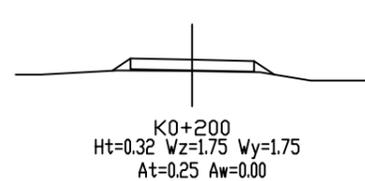
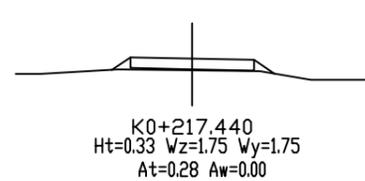
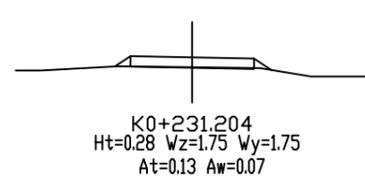
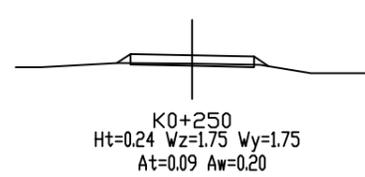
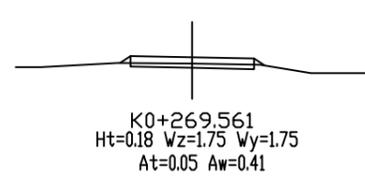
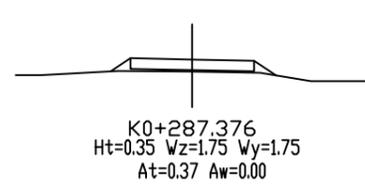
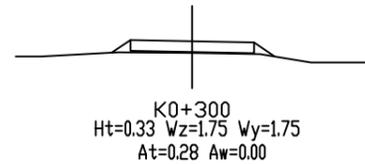
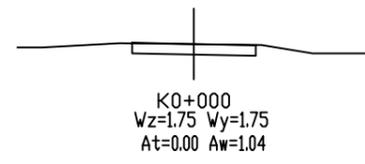
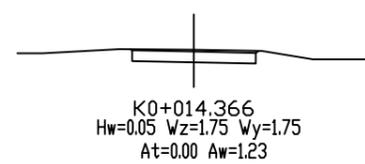
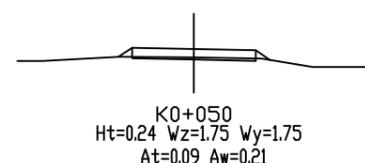
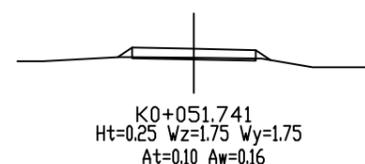
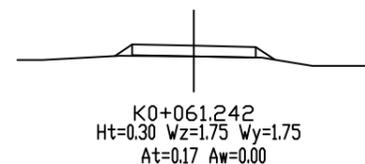
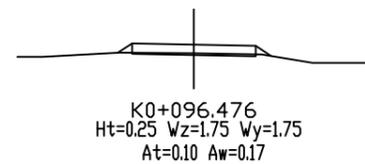
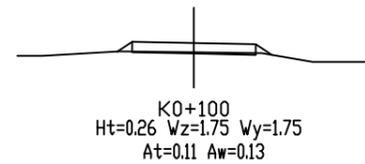
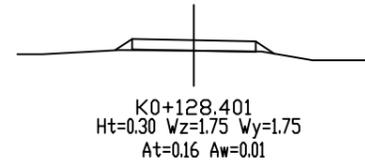
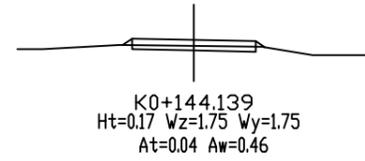
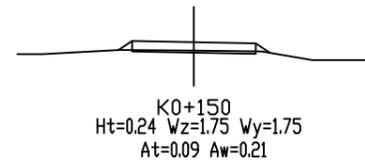


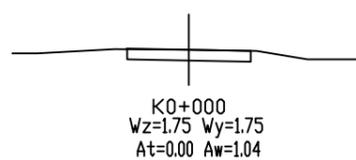
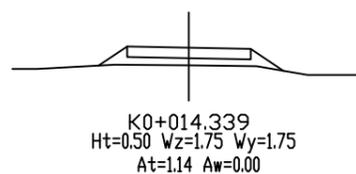
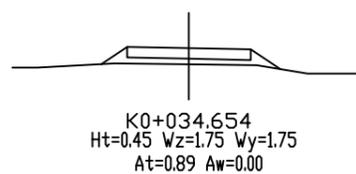
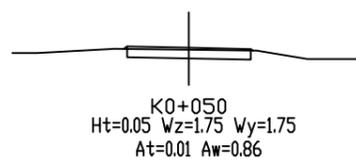
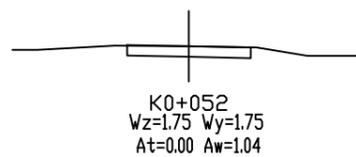


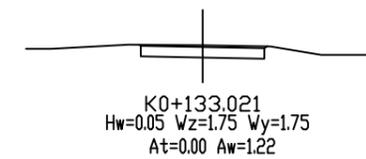
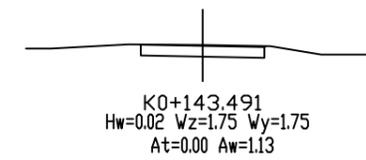
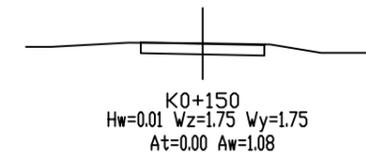
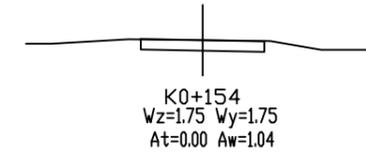
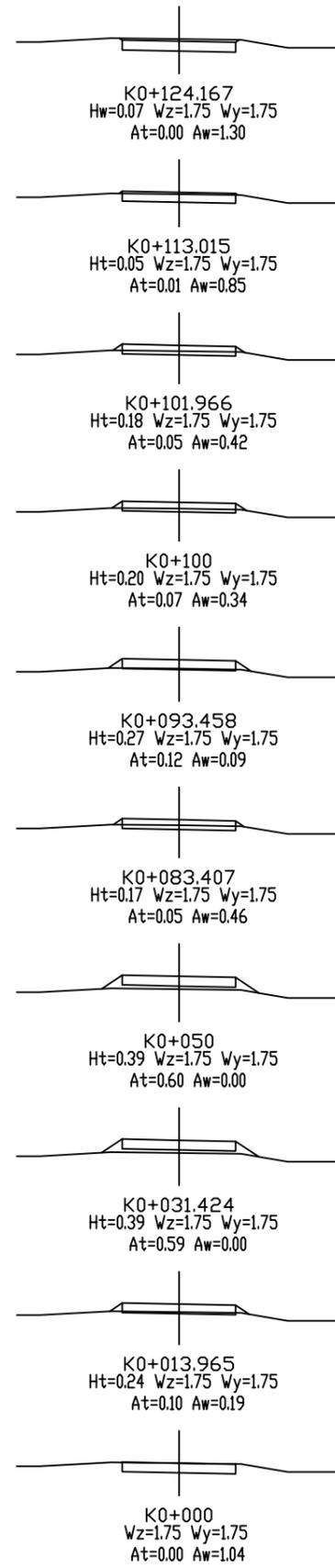


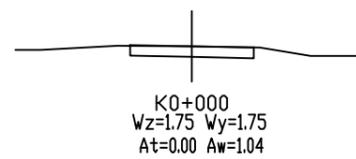
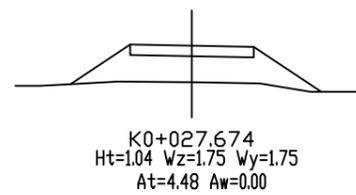
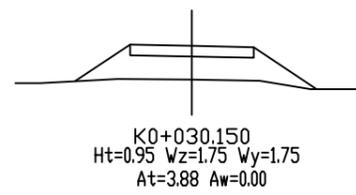
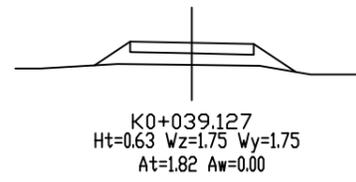
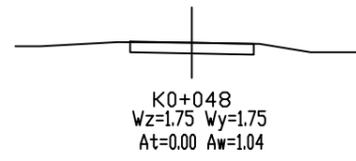


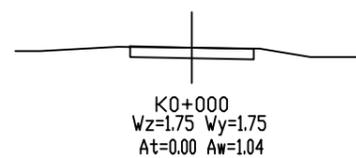
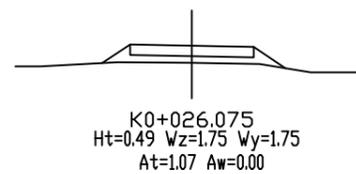
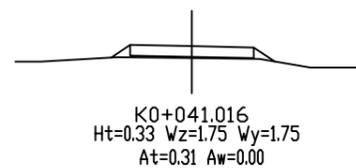
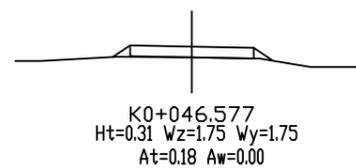
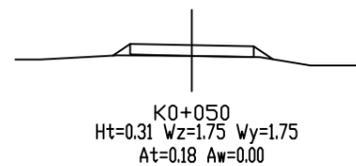
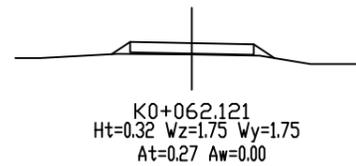
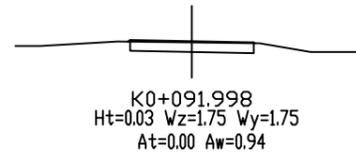
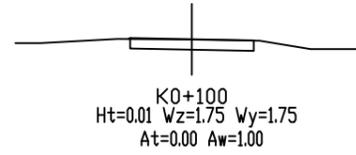
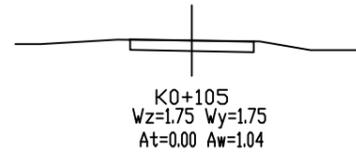


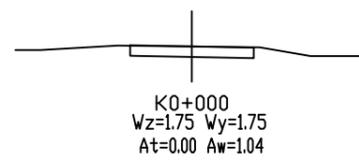
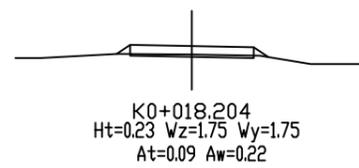
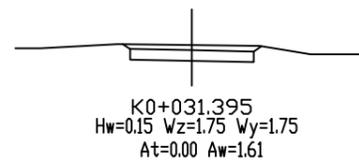
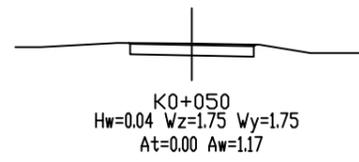
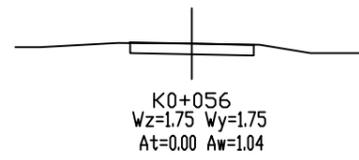


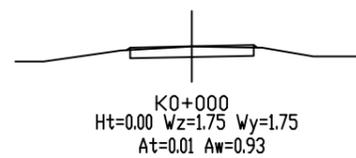
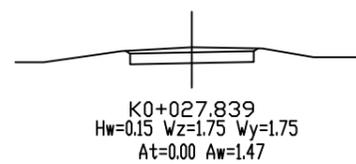
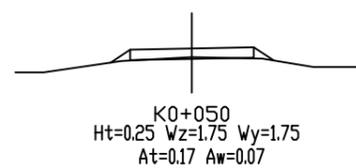
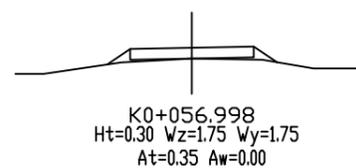
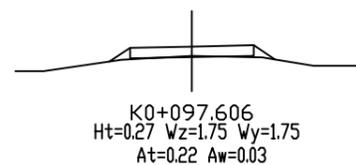
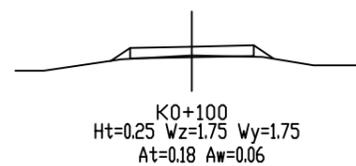
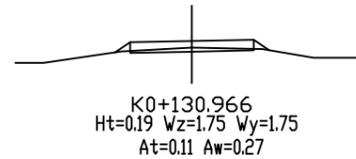
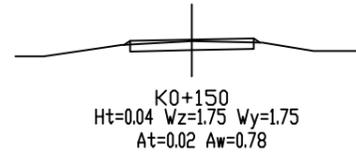
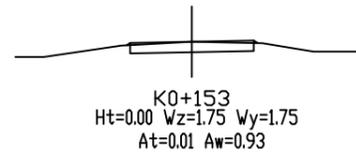


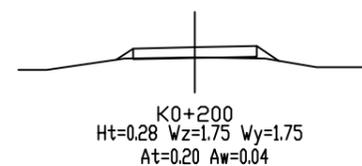
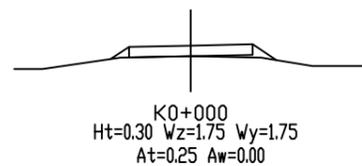
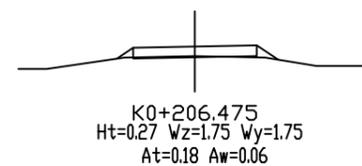
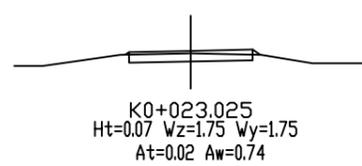
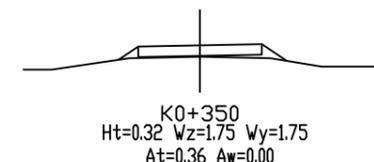
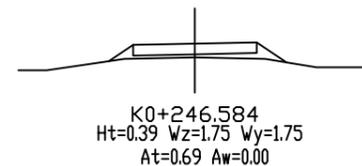
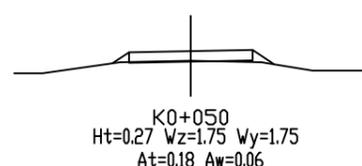
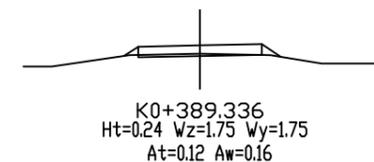
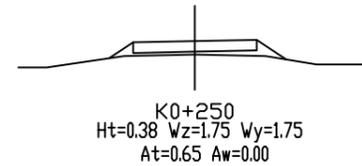
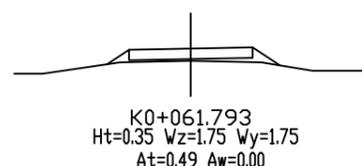
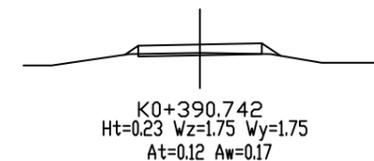
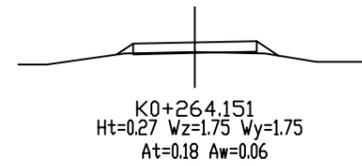
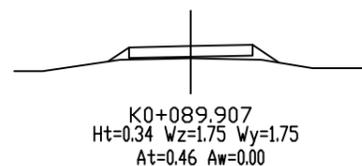
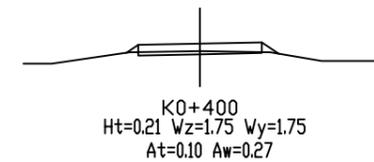
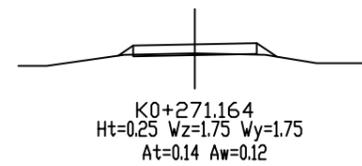
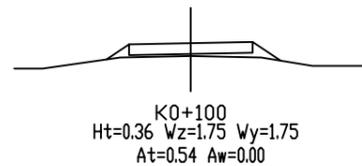
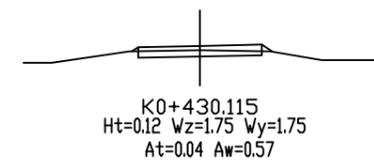
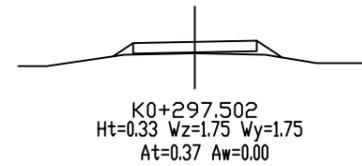
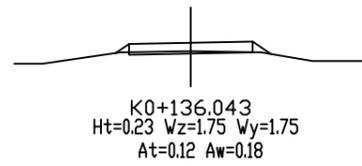
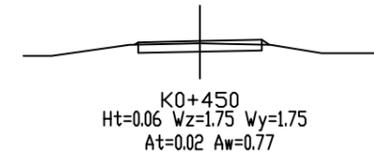
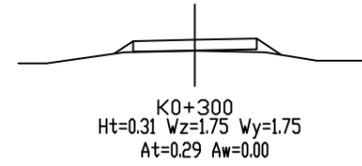
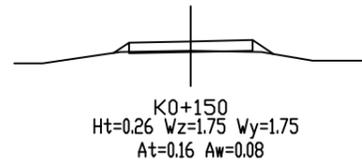
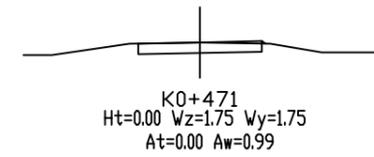
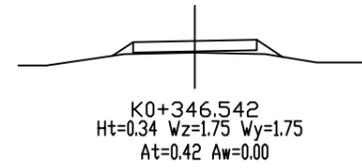
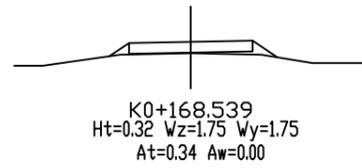


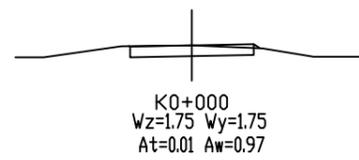
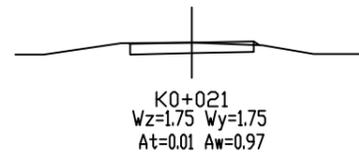


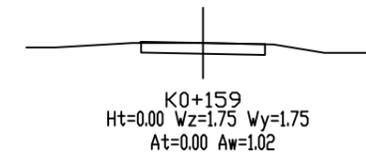
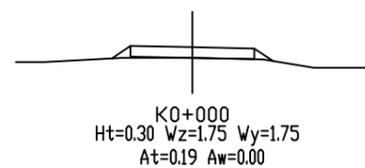
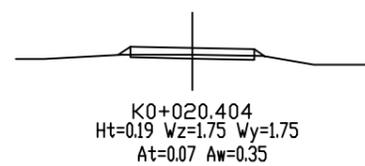
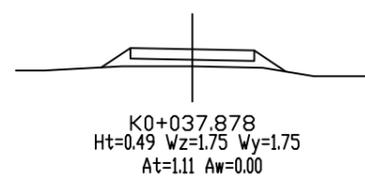
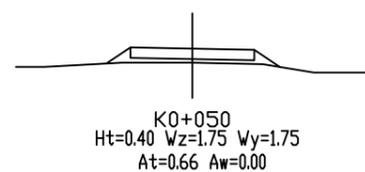
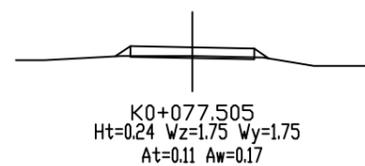
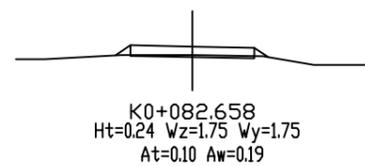
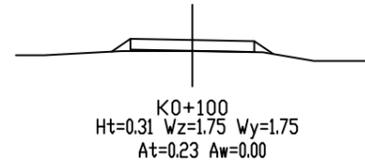
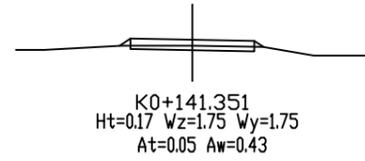
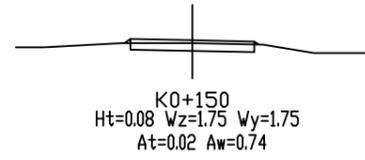


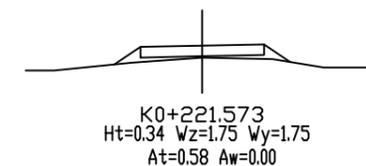
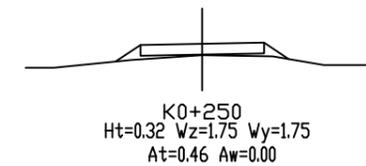
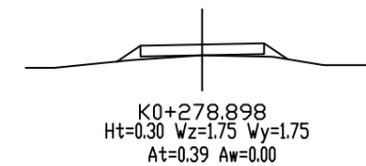
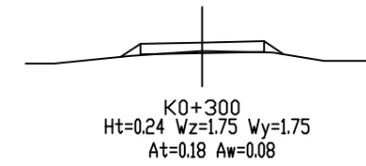
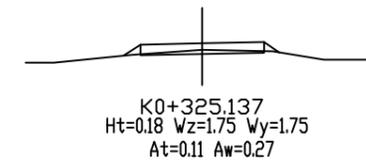
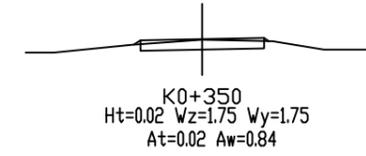
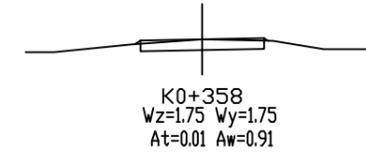
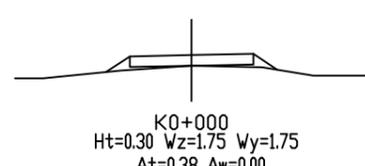
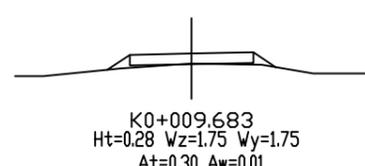
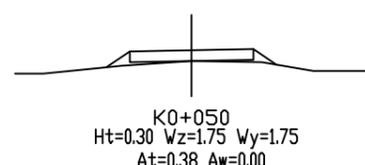
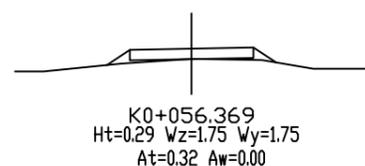
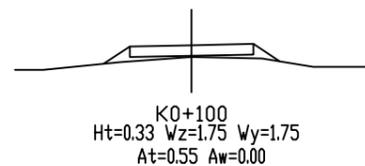
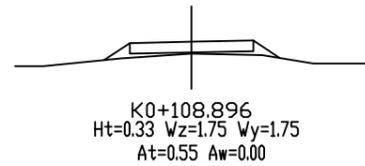
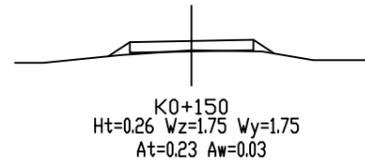
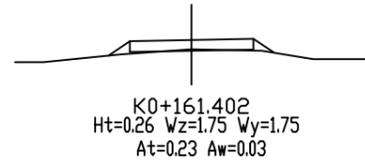
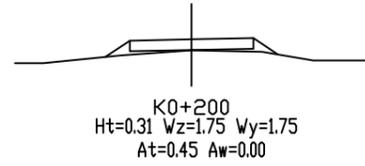


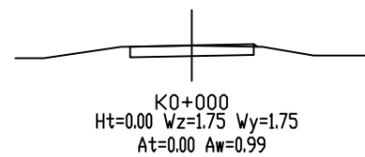
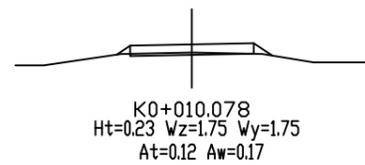
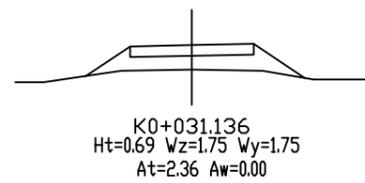
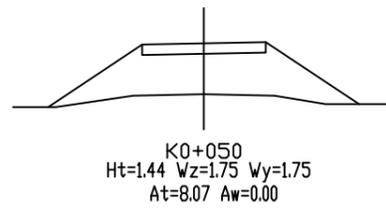
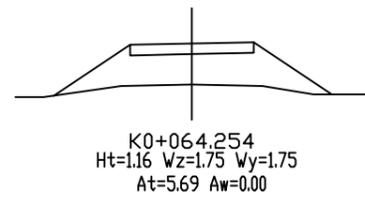
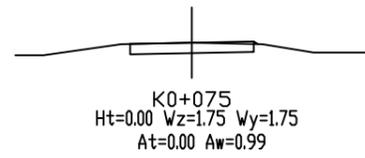












# 路基土石方数量汇总表

虎林市林草局2024年超级产粮大县和产油大县奖励资金项目（月牙湖养护站农田路维修）

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序号	起讫桩号	长度 (m)	挖方 (m3)				填方 (m3)								弃方 (m³)		计价方数量 (m³)			备注	
			总数量	土石方			总数量	本桩利用方			远运利用方及运距(m)			借方及运距(m)		土方	运距(m)	土方	石方		总数量
				II	III	IV		土方	土方	土方运距	土方	土方运距	石方	石方运距	土方						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
1	K0+000--K0+929.000	929	107	107			295	107			188						295		295	1号道	
2	K0+000--K0+787.000	787	165	165			113	113							52		165		165	2号道	
3	K0+000--K0+608.000	608	124	124			108	108							16		124		124	3号道	
4	K0+000--K0+827.000	827	89	89			151	89			62						151		151	4号道	
5	K0+000--K2+479.000	2479	249	249			527	249			278						527		527	5号道	
6	K0+000--K0+414.000	414	43	43			79	43			36						79		79	6号道	
7	K0+000--K0+410.000	410	54	54			69	54			15						69		69	7号道	
8	K0+000--K0+901.000	901	175	175			190	175			15						190		190	8号道	
9	K0+000--K0+431.000	431	212	212			104	104							108		212		212	9号道	
10	K0+000--K0+511.000	511	91	91			115	91			24						115		115	10号道	
11	K0+000--K0+236.000	236	155	155			26	26							129		155		155	11号道1	
12	K0+000--K0+126.000	126	28	28			12	12							16		28		28	11号道2	
13	K0+000--K0+513.000	513	67	67			187	67			120						187		187	12号道	
14	K0+000--K0+208.000	208	20	20			58	20			38						58		58	13号道	
15	K0+000--K0+074.000	74	71	71			2	2							69		71		71	14号道	
16	K0+000--K0+218.000	218	53	53			46	46							7		53		53	加1号道	
17	K0+000--K0+348.000	348	59	59			77	59			18						77		77	加2号道	
18	K0+000--K0+346.000	346	55	55			64	55			9						64		64	加3号道	
19	K0+000--K0+127.000	127	57	57			32	32							25		57		57	加4号道	
20	K0+000--K0+655.000	655	117	117			96	96							21		117		117	加5号道	
21	K0+000--K0+052.000	52	16	16			36	16			20						36		36	加6号道	
22	K0+000--K0+154.000	154	77	77			30	30							47		77		77	加7号道	
23	K0+000--K0+048.000	48	19	19			106	19			87						106		106	加8号道	
24	K0+000--K0+105.000	105	40	40			33	33							7		40		40	加9号道	
25	K0+000--K0+056.000	56	56	56			1	1							55		56		56	加10号道	
26	K0+000--K0+153.000	153	69	69			21	21							48		69		69	加1—生产路	
27	K0+000--K0+471.000	471	80	80			122	80			42						122		122	加2—生产路	
28	K0+000--K0+021.000	21	20	20											20		20		20	加3—生产路	
29	K0+000--K0+159.000	159	33	33			44	33			11						44		44	加4—生产路	
30	K0+000--K0+358.000	358	28	28			124	28			96						124		124	加5—生产路	
31	K0+000--K0+075.000	75	13	13			254	13			241						254		254	加6—生产路	
	合计:	12800	2442	2442			3122	1822			1300				620		3742		3742		

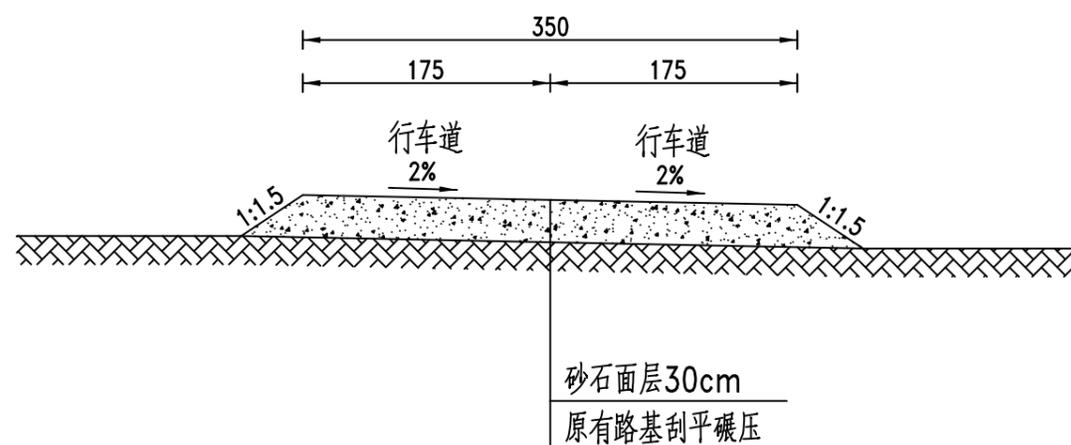
# 路面工程数量表

虎林市林草局2024年超级产粮大县和产油大县奖励资金项目（月牙湖养护站农田路维修）

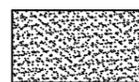
第 1 页 共 1 页 DL-09

起讫桩号	路 面						路 肩			工 程 数 量					备 注
	铺筑长度 (m)	顶面 宽度 (m)	结 构 类 型	厚 度(cm)			结 构 类 型	平均 宽度 (m)	厚度 (cm)	路 面		培 路 肩		路床碾压面积 (m <sup>2</sup> )	
				基 层	面 层	磨 耗 层				面 积 (m <sup>2</sup> )	体 积 (m <sup>3</sup> )	厚 度 (cm)	平 均 面 积 (m <sup>2</sup> )		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
K0+000~K0+929.00	929	3.5	山皮石路面		30					3669.55	1100.87			4087.60	1号道
K0+000~K0+787.00	787	3.5	山皮石路面		30					3108.65	932.60			3462.80	2号道
K0+000~K0+608.00	608	3.5	山皮石路面		30					2401.60	720.48			2675.20	3号道
K0+000~K0+827.00	827	3.5	山皮石路面		30					3266.65	980.00			3638.80	4号道
K0+000~K2+479.00	2479	3.5	山皮石路面		30					9792.05	2937.62			10907.60	5号道
K0+000~K0+414.00	414	3.5	山皮石路面		30					1635.30	490.59			1821.60	6号道
K0+000~K0+410.00	410	3.5	山皮石路面		30					1619.50	485.85			1804.00	7号道
K0+000~K0+901.00	901	3.5	山皮石路面		30					3558.95	1067.69			3964.40	8号道
K0+000~K0+431.00	431	3.5	山皮石路面		30					1702.45	510.74			1896.40	9号道
K0+000~K0+511.00	511	3.5	山皮石路面		30					2018.45	605.54			2248.40	10号道
K0+000~K0+236.00	236	3.5	山皮石路面		30					932.20	279.66			1038.40	11号道1
K0+000~K0+126.00	126	3.5	山皮石路面		30					497.70	149.31			554.40	11号道2
K0+000~K0+513.00	513	3.5	山皮石路面		30					2026.35	607.91			2257.20	12号道
K0+000~K0+208.00	208	3.5	山皮石路面		30					821.60	246.48			915.20	13号道
K0+000~K0+074.00	74	3.5	山皮石路面		30					292.30	87.69			325.60	14号道
K0+000~K0+218.00	218	3.5	山皮石路面		30					861.10	258.33			959.20	加1号道
K0+000~K0+348.00	348	3.5	山皮石路面		30					1374.60	412.38			1531.20	加2号道
K0+000~K0+346.00	346	3.5	山皮石路面		30					1366.70	410.01			1522.40	加3号道
K0+000~K0+127.00	127	3.5	山皮石路面		30					501.65	150.50			558.80	加4号道
K0+000~K0+655.00	655	3.5	山皮石路面		30					2587.25	776.18			2882.00	加5号道
K0+000~K0+052.00	52	3.5	山皮石路面		30					205.40	61.62			228.80	加6号道
K0+000~K0+154.00	154	3.5	山皮石路面		30					608.30	182.49			677.60	加7号道
K0+000~K0+048.00	48	3.5	山皮石路面		30					189.60	56.88			211.20	加8号道
K0+000~K0+105.00	105	3.5	山皮石路面		30					414.75	124.43			462.00	加9号道
K0+000~K0+056.00	56	3.5	山皮石路面		30					221.20	66.36			246.40	加10号道
K0+000~K0+153.00	153	3.5	山皮石路面		30					604.35	181.31			673.20	加1—生产路
K0+000~K0+471.00	471	3.5	山皮石路面		30					1860.45	558.14			2072.40	加2—生产路
K0+000~K0+021.00	21	3.5	山皮石路面		30					82.95	24.89			92.40	加3—生产路
K0+000~K0+159.00	159	3.5	山皮石路面		30					628.05	188.42			699.60	加4—生产路
K0+000~K0+358.00	358	3.5	山皮石路面		30					1414.10	424.23			1575.20	加5—生产路
K0+000~K0+075.00	75	3.5	山皮石路面		30					296.25	88.88			330.00	加6—生产路
合 计:	12800		山皮石路面		30					50560.00	15168.00				
			路床碾压面积											56320.00	

路面结构图



图例



砂石

注：  
1、本图尺寸均以cm计。

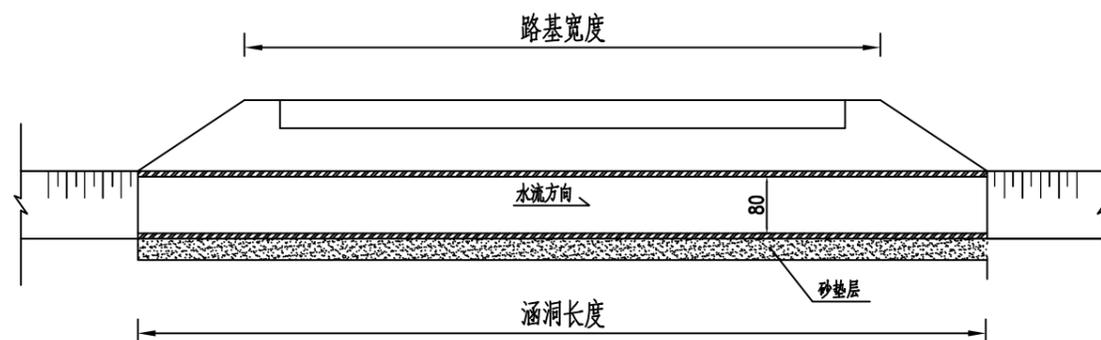
# 圆 管 涵 工 程 数 量 表

虎林市林草局2024年超级产粮大县和产油大县奖励资金项目（月牙湖养护站农田路维修）

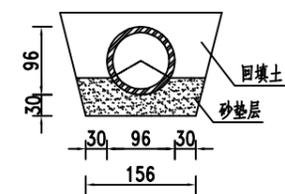
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序 号	所在路线名称	桩号	交角  (度)	孔数—跨径  (孔—m)	涵 长  (m)	结构类型	洞口型式		工 程 量										备 注
									管 节				管 基		端 墙		挖基  土方  (m³)	回填  土方  (m³)	
							进口	出口	Φ0.5涵管  (m)	Φ0.6涵管  (m)	Φ0.8涵管  (m)	Φ1.5涵管  (m)	C15 混凝土  (m³)	砂砾 垫层  (m³)	墙身  C20混凝土 (m³)	基础  C20混凝土 (m³)			
1	5号道	K1+299	90	1-Φ0.80	6	简易圆管涵					6			4.62			16.9	7.9	
2	8号道	K0+499	90	1-Φ0.80	6	简易圆管涵					6			4.62			16.9	7.9	
3	11号道1	K0+040	90	1-Φ0.80	6	简易圆管涵					6			4.62			16.9	7.9	
4	11号道2	K0+118	90	1-Φ0.80	6	简易圆管涵					6			4.62			16.9	7.9	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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21																			
22																			
23																			
24																			
25																			
26																			
	合计:				24						24			18.48			67.44	31.44	弃方运距1km

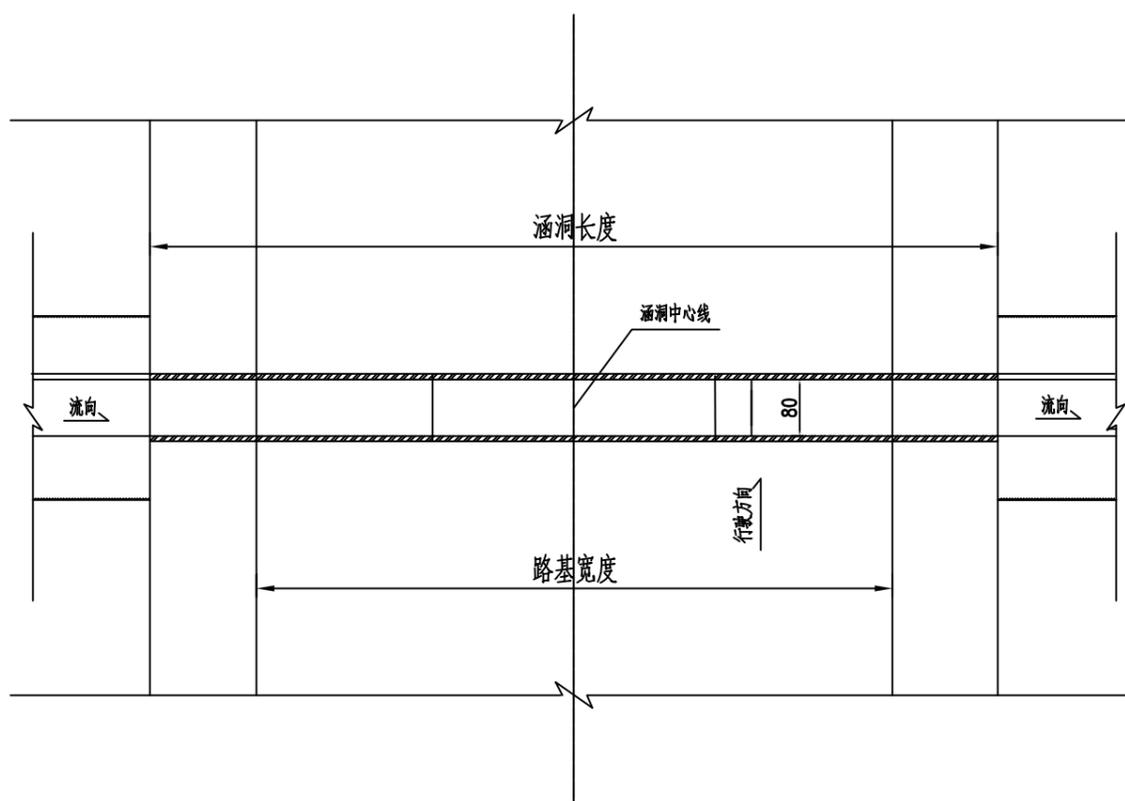
简易φ80圆涵纵断面图



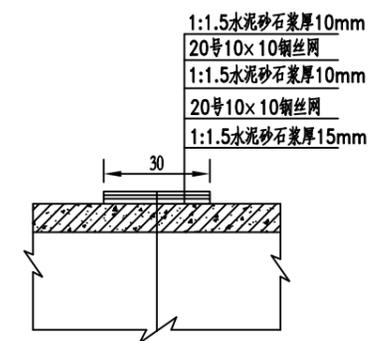
洞口立面图



简易φ80圆涵平面图



管接头大样图



- 注：
- 1、本图中结构尺寸以cm计。
  - 2、圆涵为简易圆涵。
  - 3、圆涵纵坡坡降为 $i=1/300$ 。

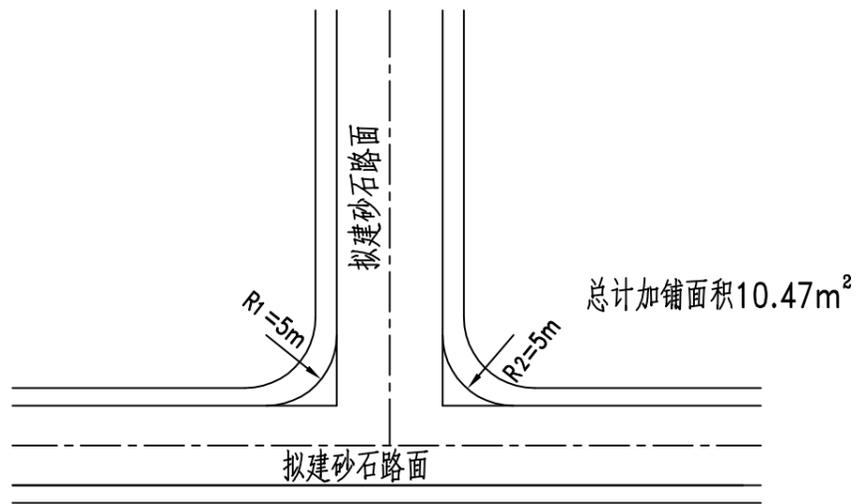
# 平面交叉工程数量表

虎林市林草局2024年超级产粮大县和产油大县奖励资金项目（月牙湖养护站农田路维修）

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序号	中心桩号	交叉形式	交叉形状	交角 (度)	长度 (m)	被交叉路 宽度 (m)	纵坡 (%)		R <sub>1</sub> (m)	R <sub>2</sub> (m)	R <sub>3</sub> (m)	R <sub>4</sub> (m)	30cm山皮石		备注
							左	右					面积	体积	
													(m <sup>2</sup> )	(m <sup>3</sup> )	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	1号道起点与已建道路相交处
2	K0+046	平面交叉形式一	T型交叉						5	5			10.74	3.22	2号道与已建道路相交处
3	K0+054	平面交叉形式一	T型交叉						5	5			10.74	3.22	2号道与已建道路相交处
4	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	3号道起点与已建道路相交处
5	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	4号道起点与已建道路相交处
6	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	5号道起点与已建道路相交处
7	K2+479	平面交叉形式一	T型交叉						5	5			10.74	3.22	5号道终点与已建道路相交处
8	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	6号道起点与5号道相交处
9	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	7号道起点与5号道相交处
10	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	8号道起点与已建道路相交处
11	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	9号道起点与已建道路相交处
12	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	10号道起点与4号道相交处
13	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	11号道1起点与已建道路相交处
14	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	11号道2起点与11号道1相交处
15	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	12号道起点与已建道路相交处
16	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	13号道起点与已建道路相交处
17	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	14号道起点与已建道路相交处
18	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加1号道起点与已建道路相交处
19	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加2号道起点与3号道相交处
20	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加3号道起点与已建道路相交处
21	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加4号道起点与已建道路相交处
22	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加5号道起点与已建道路相交处
23	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加6号道起点与已建道路相交处
24	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加7号道起点与已建道路相交处
25	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加9号道起点与已建道路相交处
26	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加10号道起点与已建道路相交处
27	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加2—生产路起点与已建道路相交处
28	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加4—生产路起点与已建道路相交处
29	K0+000	平面交叉形式一	T型交叉						5	5			10.74	3.22	加5—生产路起点与已建道路相交处
	合计												311.46	93.44	

平面交叉形式一



注:

- 1、本图尺寸除标注外均以cm为单位。
- 2、加铺部分结构层见平面交叉工程数量表。