

Environmental  
Assessment  
Cole Hollow Road  
Realignment Project

Appendix – A

Project Plan Set

# TOWN OF BLENHEIM COLE HOLLOW ROAD REALIGNMENT

SCHOHARIE COUNTY NEW YORK

MARCH 2013

CONTRACT NO. 1 : GENERAL CONSTRUCTION

**Lamont  
Engineers**  
ENGINEERS - PLANNERS  
FACILITY OPERATIONS  
548 MAIN ST., COBLESKILL, NY 12043  
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COLE HOLLOW ROAD REALIGNMENT  
TOWN OF BLENHEIM  
SCHOHARIE COUNTY NEW YORK STATE

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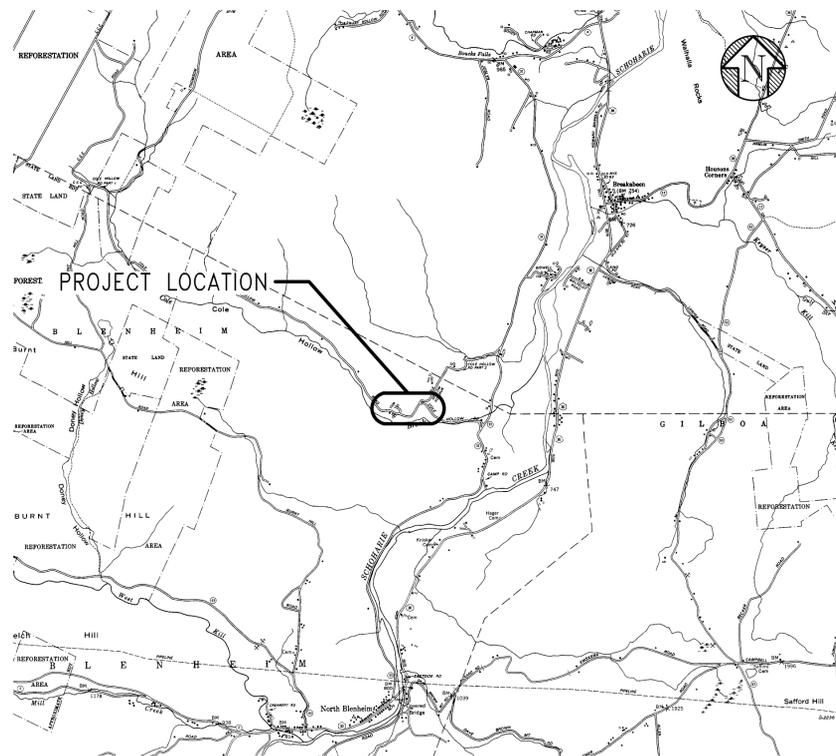
Issued Rev.	Date	Remarks
B	12/17/13	FOR FEMA APPROVAL
A	10/27/13	FOR LAND ACQUISITION

Project Number	2012053
Drawn By	TJS
Designed By	FV
Checked By	FV
Date	3/21/13
Scale	AS SHOWN
File Name	COVER

Sheet Title  
TITLE PAGE,  
LOCATION MAP  
& DRAWING INDEX

Sheet No.

C5



LOCATION MAP  
SCALE: 1" = 1,000'

SHEET NO.	DRAWING INDEX
C5	TITLE PAGE, LOCATION MAP AND DRAWING INDEX
C10	LAYOUT AND DEMOLITION PLAN
C11	GRADING AND EROSION AND SEDIMENT CONTROL PLAN
C20	PROFILE STA 0+00 TO STA 7+50
C21	PROFILE STA 7+50 TO STA 15+00
C22	CULVERT SECTION STA 12+75
C30	CROSS SECTIONS STA 0+00 TO STA 1+00
C31	CROSS SECTIONS STA 1+50 TO STA 2+50
C32	CROSS SECTIONS STA 3+00 TO STA 4+00
C33	CROSS SECTIONS STA 4+50 TO STA 5+50
C34	CROSS SECTIONS STA 6+00 TO STA 7+00
C35	CROSS SECTIONS STA 7+50 TO STA 8+50
C36	CROSS SECTIONS STA 9+00 TO STA 10+00
C37	CROSS SECTIONS STA 10+50 TO STA 11+50
C38	CROSS SECTIONS STA 12+00 TO STA 13+00
C39	CROSS SECTIONS STA 13+50 TO STA 14+50
C40	EROSION AND SEDIMENT CONTROL DETAILS
C41	SITE DETAILS

ISSUED: 10/31/13

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1	12/21/12	FOR PLAN APPROVAL
2	12/21/12	FOR LAND ACQUISITION

Project Number: 2012053  
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 Designed By: FV  
 Checked By: FV  
 Date: 11/21/12  
 Scale: 1"=40'  
 File Name: BM\_BLENHEIMROAD

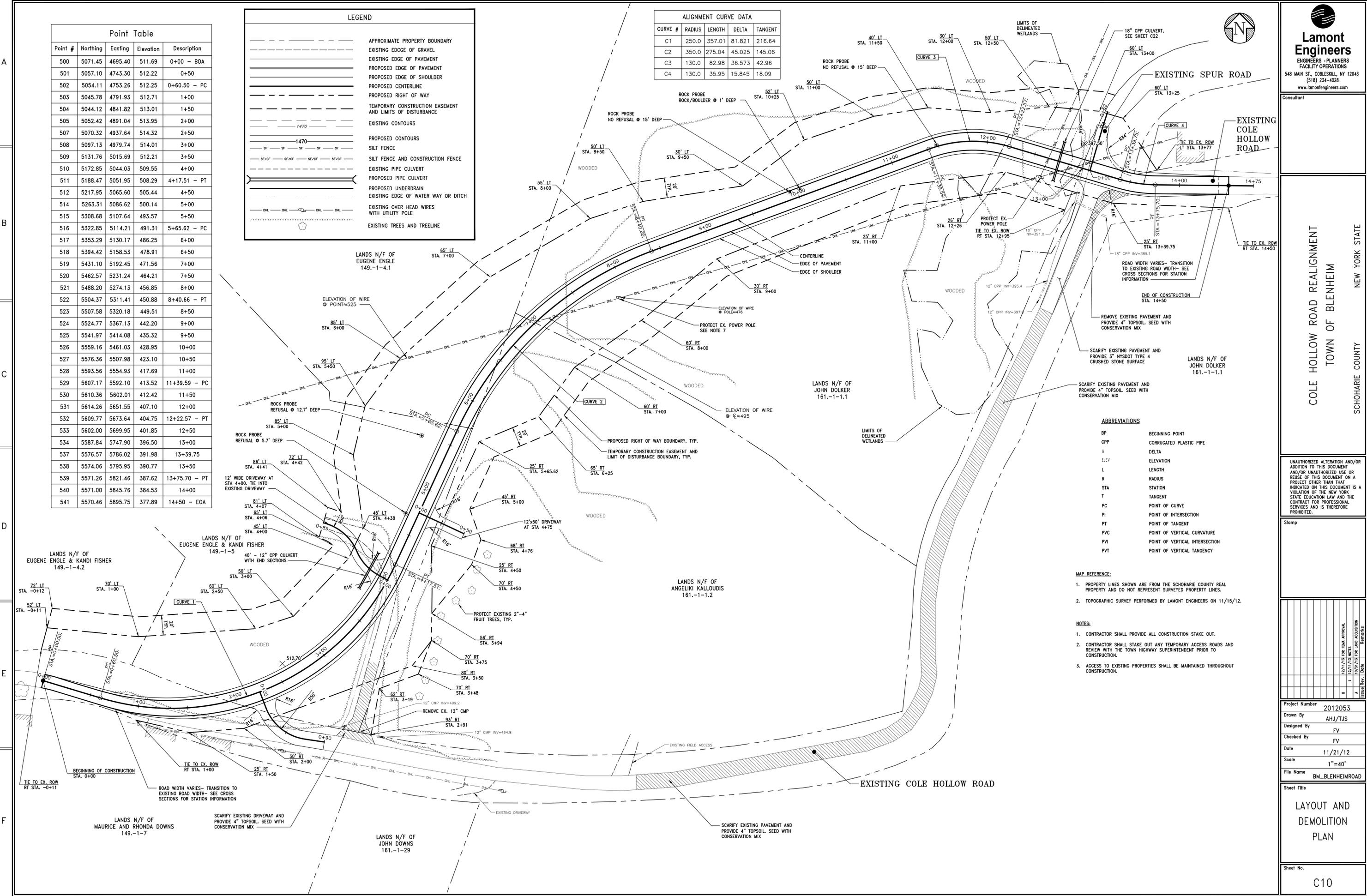
LAYOUT AND DEMOLITION PLAN

Sheet No. C10

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
C1	250.0	357.01	81.821	216.64
C2	350.0	275.04	45.025	145.06
C3	130.0	82.98	36.573	42.96
C4	130.0	35.95	15.845	18.09

	APPROXIMATE PROPERTY BOUNDARY
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EDGE OF SHOULDER
	PROPOSED CENTERLINE
	PROPOSED RIGHT OF WAY
	TEMPORARY CONSTRUCTION EASEMENT AND LIMITS OF DISTURBANCE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	SILT FENCE
	SILT FENCE AND CONSTRUCTION FENCE
	EXISTING PIPE CULVERT
	PROPOSED PIPE CULVERT
	PROPOSED UNDERDRAIN
	EXISTING EDGE OF WATER WAY OR DITCH
	EXISTING OVER HEAD WIRES WITH UTILITY POLE
	EXISTING TREES AND TREELINE

Point #	Northing	Easting	Elevation	Description
500	5071.45	4695.40	511.69	0+00 - BOA
501	5057.10	4743.30	512.22	0+50
502	5054.11	4753.26	512.25	0+60.50 - PC
503	5045.78	4791.93	512.71	1+00
504	5044.12	4841.82	513.01	1+50
505	5052.42	4891.04	513.95	2+00
507	5070.32	4937.64	514.32	2+50
508	5097.13	4979.74	514.01	3+00
509	5131.76	5015.69	512.21	3+50
510	5172.85	5044.03	509.55	4+00
511	5188.47	5051.95	508.29	4+17.51 - PT
512	5217.95	5065.60	505.44	4+50
514	5263.31	5086.62	500.14	5+00
515	5308.68	5107.64	493.57	5+50
516	5322.85	5114.21	491.31	5+65.62 - PC
517	5353.29	5130.17	486.25	6+00
518	5394.42	5158.53	478.91	6+50
519	5431.10	5192.45	471.56	7+00
520	5462.57	5231.24	464.21	7+50
521	5488.20	5274.13	456.85	8+00
522	5504.37	5311.41	450.88	8+40.66 - PT
523	5507.58	5320.18	449.51	8+50
524	5524.77	5367.13	442.20	9+00
525	5541.97	5414.08	435.32	9+50
526	5559.16	5461.03	428.95	10+00
527	5576.36	5507.98	423.10	10+50
528	5593.56	5554.93	417.69	11+00
529	5607.17	5592.10	413.52	11+39.59 - PC
530	5610.36	5602.01	412.42	11+50
531	5614.26	5651.55	407.10	12+00
532	5609.77	5673.64	404.75	12+22.57 - PT
533	5602.00	5699.95	401.85	12+50
534	5587.84	5747.90	396.50	13+00
537	5576.57	5786.02	391.98	13+39.75
538	5574.06	5795.95	390.77	13+50
539	5571.26	5821.46	387.62	13+75.70 - PT
540	5571.00	5845.76	384.53	14+00
541	5570.46	5895.75	377.89	14+50 - EOA


ABBREVIATIONS

BP	BEGINNING POINT
CPP	CORRUGATED PLASTIC PIPE
Δ	DELTA
ELEV	ELEVATION
L	LENGTH
R	RADIUS
STA	STATION
T	TANGENT
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY

- MAP REFERENCE:
- PROPERTY LINES SHOWN ARE FROM THE SCHOHARIE COUNTY REAL PROPERTY AND DO NOT REPRESENT SURVEYED PROPERTY LINES.
  - TOPOGRAPHIC SURVEY PERFORMED BY LAMONT ENGINEERS ON 11/15/12.

- NOTES:
- CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKE OUT.
  - CONTRACTOR SHALL STAKE OUT ANY TEMPORARY ACCESS ROADS AND REVIEW WITH THE TOWN HIGHWAY SUPERINTENDENT PRIOR TO CONSTRUCTION.
  - ACCESS TO EXISTING PROPERTIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

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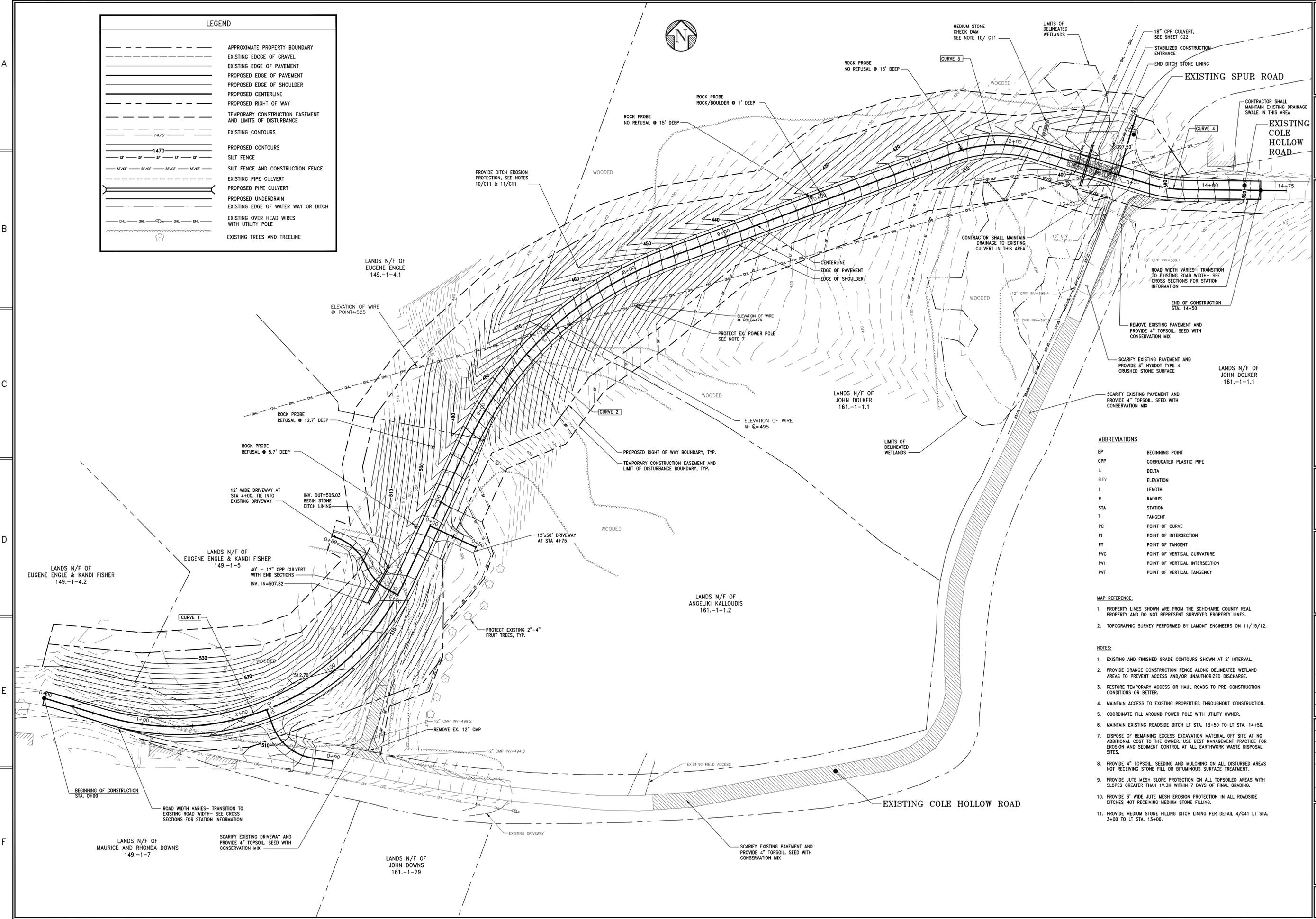
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Designed By	FV
Checked By	FV
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File Name	BM_BLENHEIMROAD

Sheet Title

**GRADING AND EROSION AND SEDIMENT CONTROL PLAN**

Sheet No.

C11



**LEGEND**

	APPROXIMATE PROPERTY BOUNDARY
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EDGE OF SHOULDER
	PROPOSED CENTERLINE
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  - TOPOGRAPHIC SURVEY PERFORMED BY LAMONT ENGINEERS ON 11/15/12.

- NOTES:**
- EXISTING AND FINISHED GRADE CONTOURS SHOWN AT 2' INTERVAL.
  - PROVIDE ORANGE CONSTRUCTION FENCE ALONG DELINEATED WETLAND AREAS TO PREVENT ACCESS AND/OR UNAUTHORIZED DISCHARGE.
  - RESTORE TEMPORARY ACCESS OR HAUL ROADS TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
  - MAINTAIN ACCESS TO EXISTING PROPERTIES THROUGHOUT CONSTRUCTION.
  - COORDINATE FILL AROUND POWER POLES WITH UTILITY OWNER.
  - MAINTAIN EXISTING ROADSIDE DITCH LT STA. 13+50 TO LT STA. 14+50.
  - DISPOSE OF REMAINING EXCESS EXCAVATION MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. USE BEST MANAGEMENT PRACTICE FOR EROSION AND SEDIMENT CONTROL AT ALL EARTHWORK WASTE DISPOSAL SITES.
  - PROVIDE 4" TOPSOIL, SEEDING AND MULCHING ON ALL DISTURBED AREAS NOT RECEIVING STONE FILL OR BITUMINOUS SURFACE TREATMENT.
  - PROVIDE JUTE MESH SLOPE PROTECTION ON ALL TOPSOILED AREAS WITH SLOPES GREATER THAN 1V:3H WITHIN 7 DAYS OF FINAL GRADING.
  - PROVIDE 3' WIDE JUTE MESH EROSION PROTECTION IN ALL ROADSIDE DITCHES NOT RECEIVING MEDIUM STONE FILLING.
  - PROVIDE MEDIUM STONE FILLING DITCH LINING PER DETAIL 4/C41 LT STA. 3+00 TO LT STA. 13+00.



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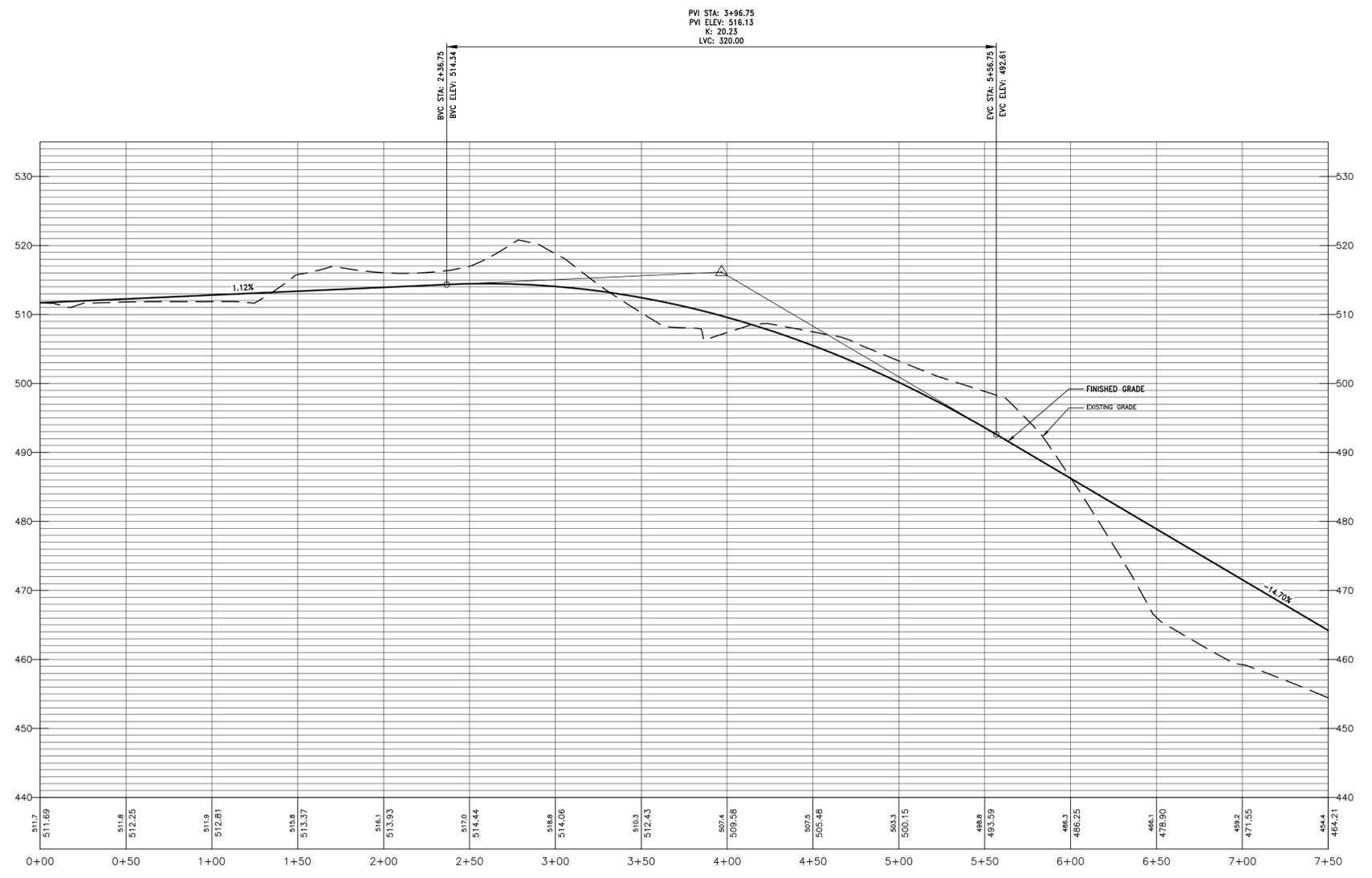
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A	10/21/13	FOR LAND ACQUISITION
B	12/11/13	FOR PDM APPROVAL

Project Number 2012053  
 Drawn By AHJ, TS  
 Designed By FV  
 Checked By FV  
 Date 11/21/12  
 Scale AS SHOWN  
 File Name BM\_BLENHEIMROAD

Sheet Title  
 PROFILE  
 STA 0+00 TO  
 STA 7+50

Sheet No.  
 C20



PROFILE VIEW: COLE HOLLOW RD REALIGNMENT STA 0+00 TO STA 7+50  
 SCALE: H: 1"=40' V: 1"=10'  
 DATUM: 440.00



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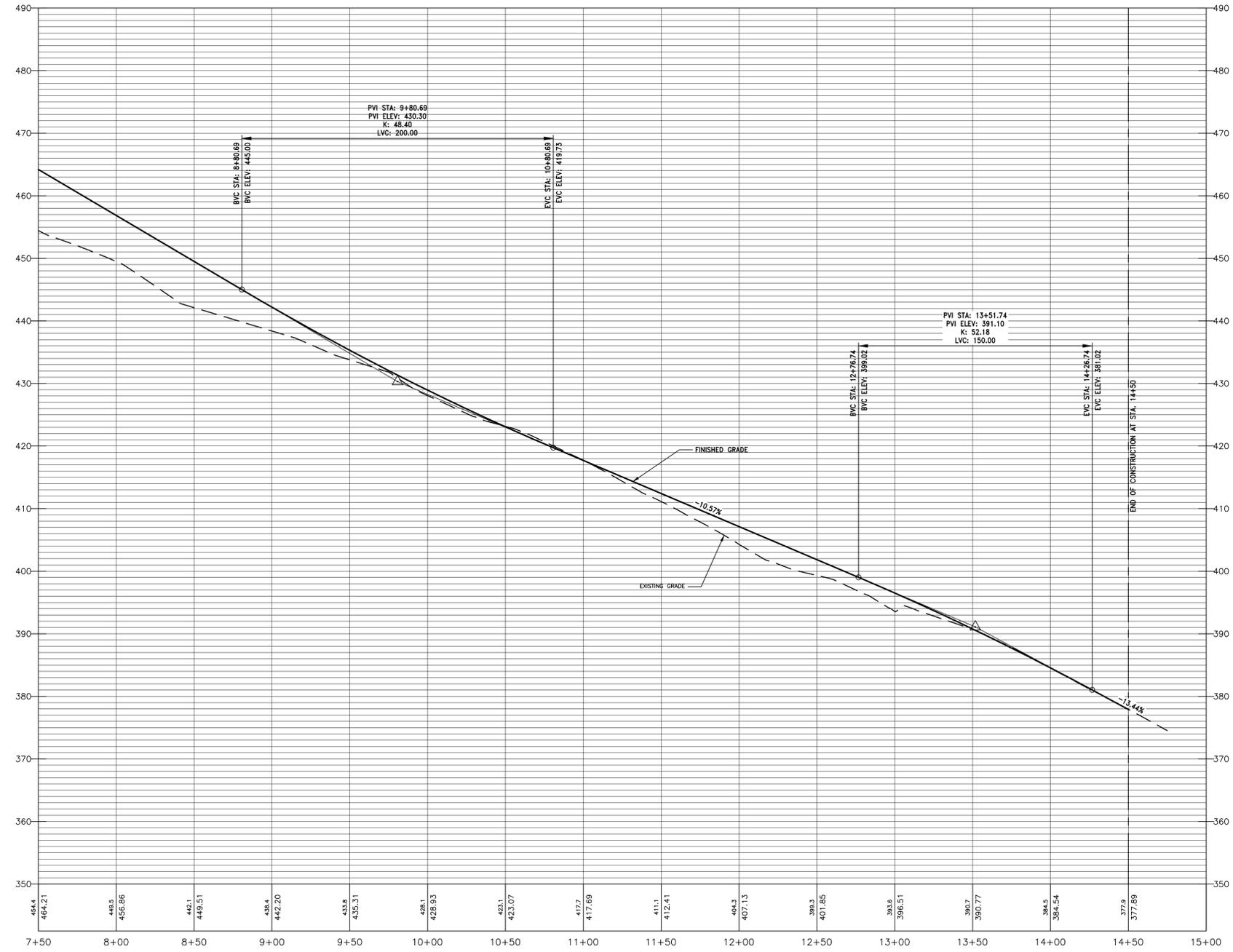
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Sheet Title  
**PROFILE  
 STA 7+50 TO  
 STA 15+00**

Sheet No.  
**C21**



PROFILE VIEW: COLE HOLLOW RD REALIGNMENT STA 7+50 TO STA 15+00  
 SCALE: H: 1"=40' V: 1"=10'  
 DATUM: 350.00



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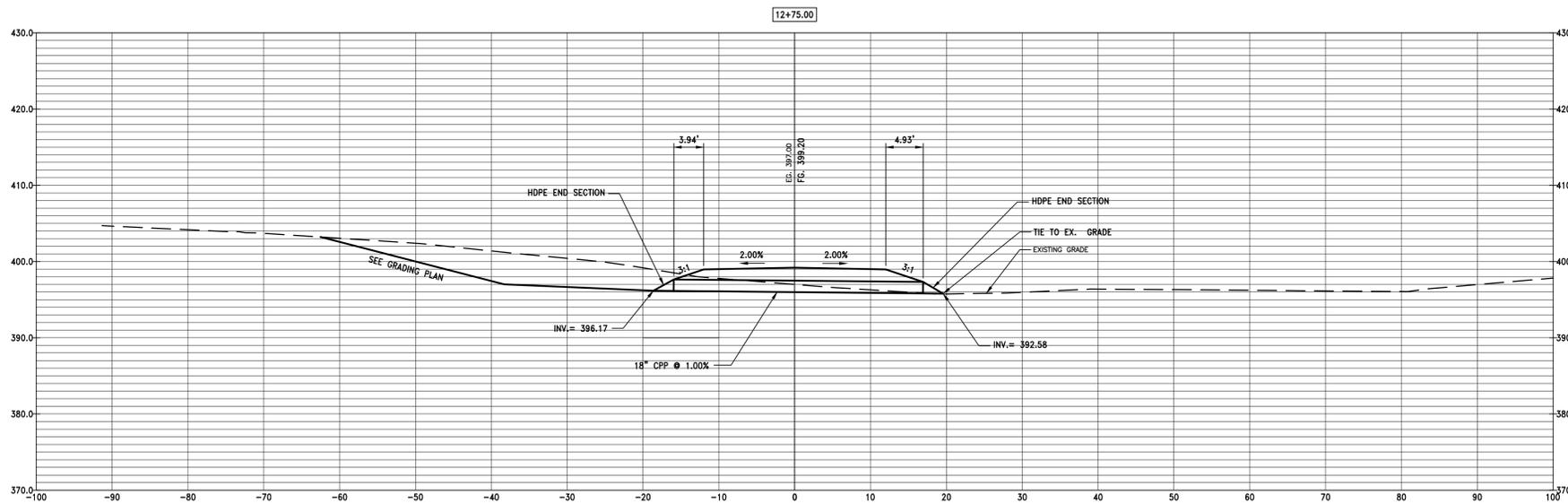
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Project Number 2012053  
 Drawn By TJS  
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 Scale 1"=10'  
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Sheet Title  
**CULVERT SECTION**  
 STA. 12+75

Sheet No.  
**C22**





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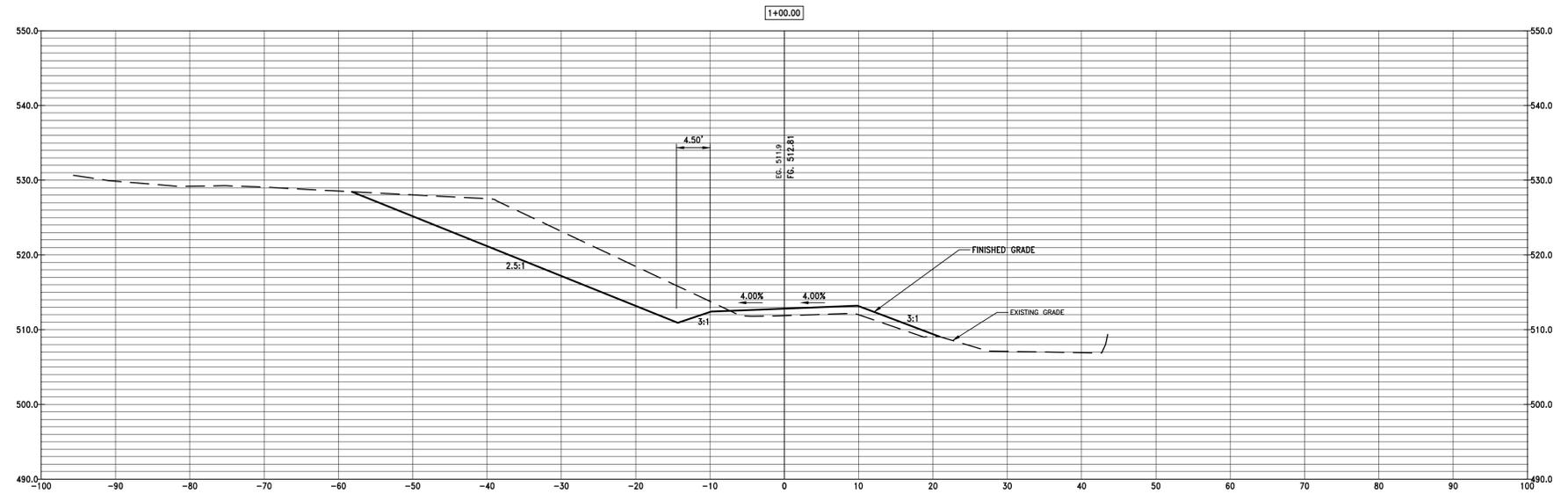
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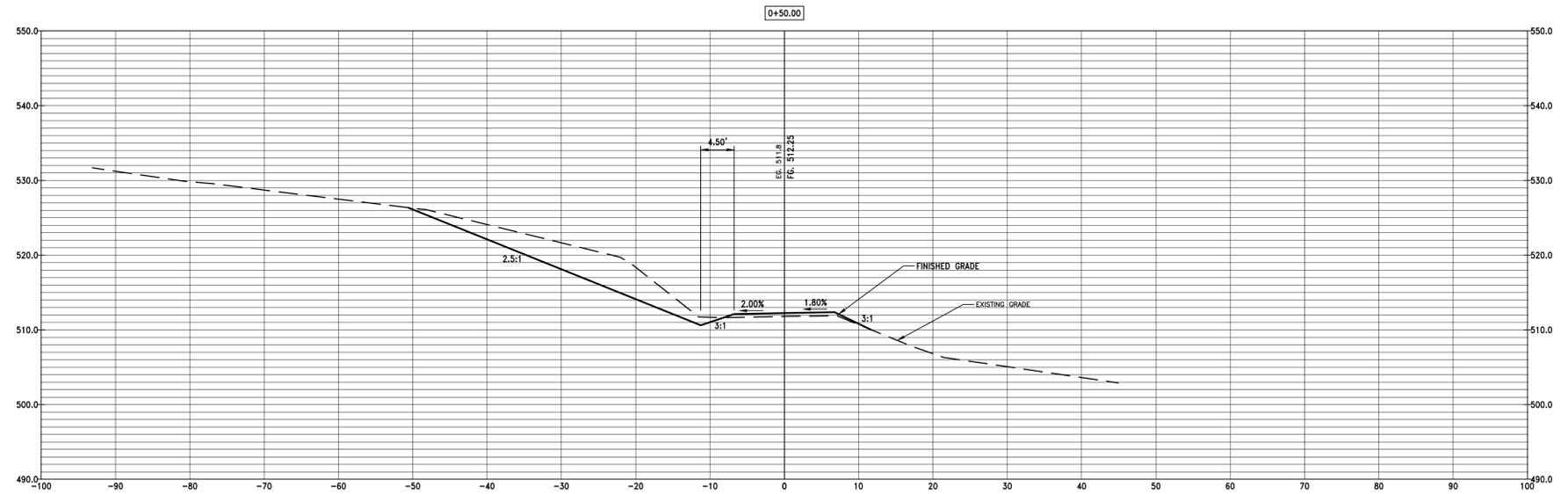
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File Name BM\_BLENHEIMROAD

Sheet Title  
CROSS SECTIONS  
STA. 0+00 TO  
STA. 1+00

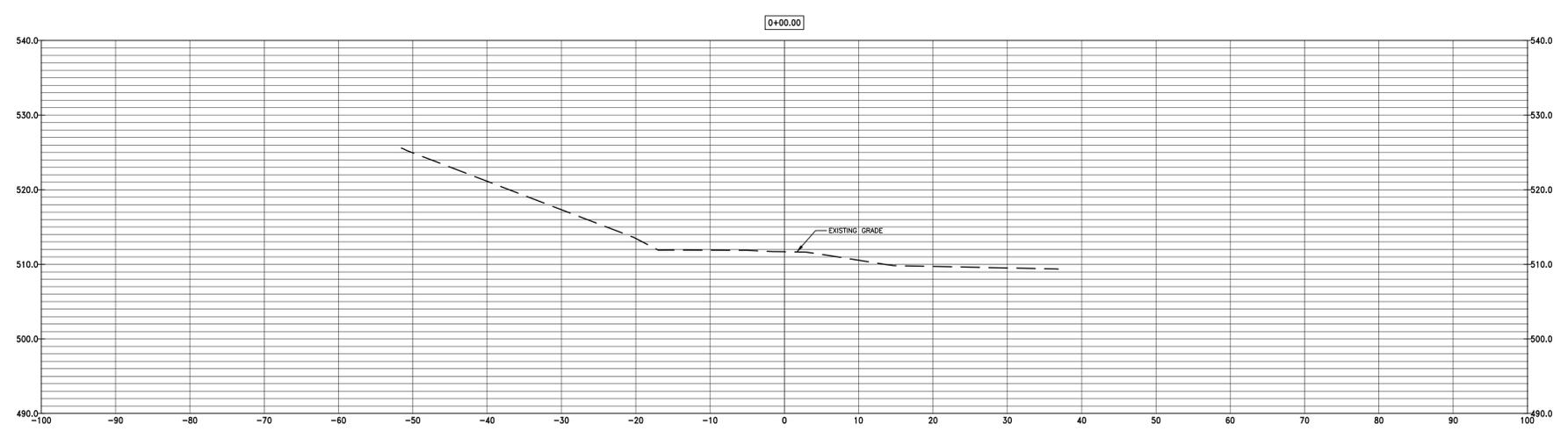
Sheet No.  
C30



STA 0+77.50 BEGIN FULL SUPERELEVATION  
STA 0+75 BEGIN RIGHT SHOULDER 25:1 TAPER  
STA 0+50 BEGIN RIGHT EOP 25:1 TAPER



STA 0+27.50 BEGIN RUNOFF  
STA 0+2.50 BEGIN RUNOUT  
STA 0+00 BEGIN LEFT EOP AND SHOULDER 25:1 TAPER



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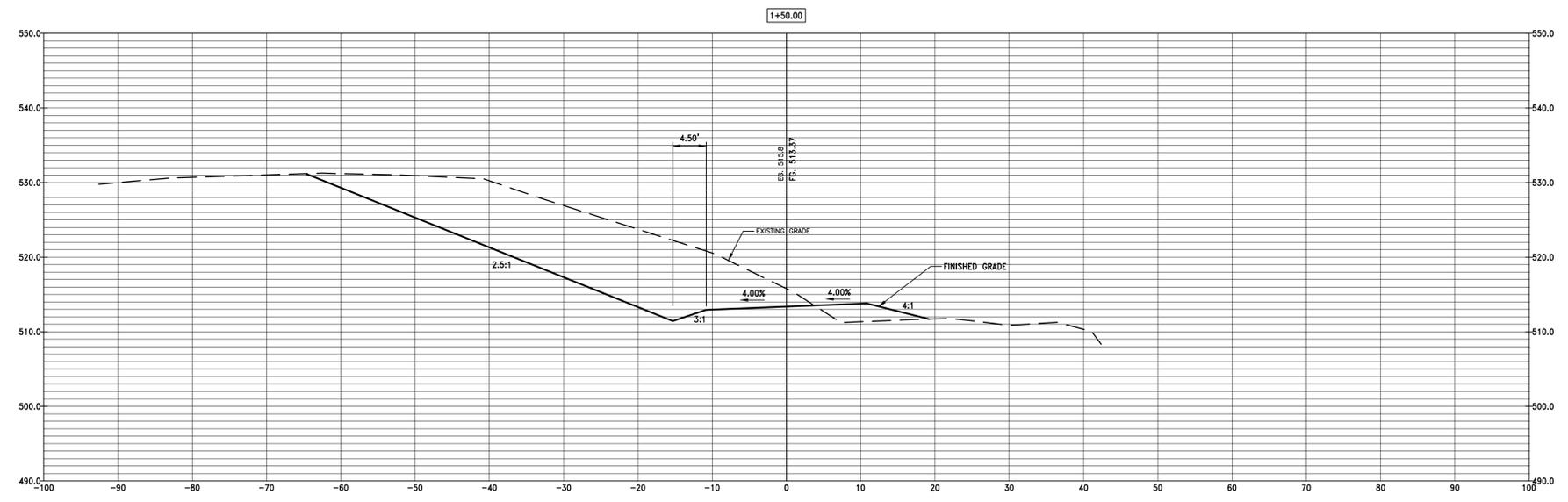
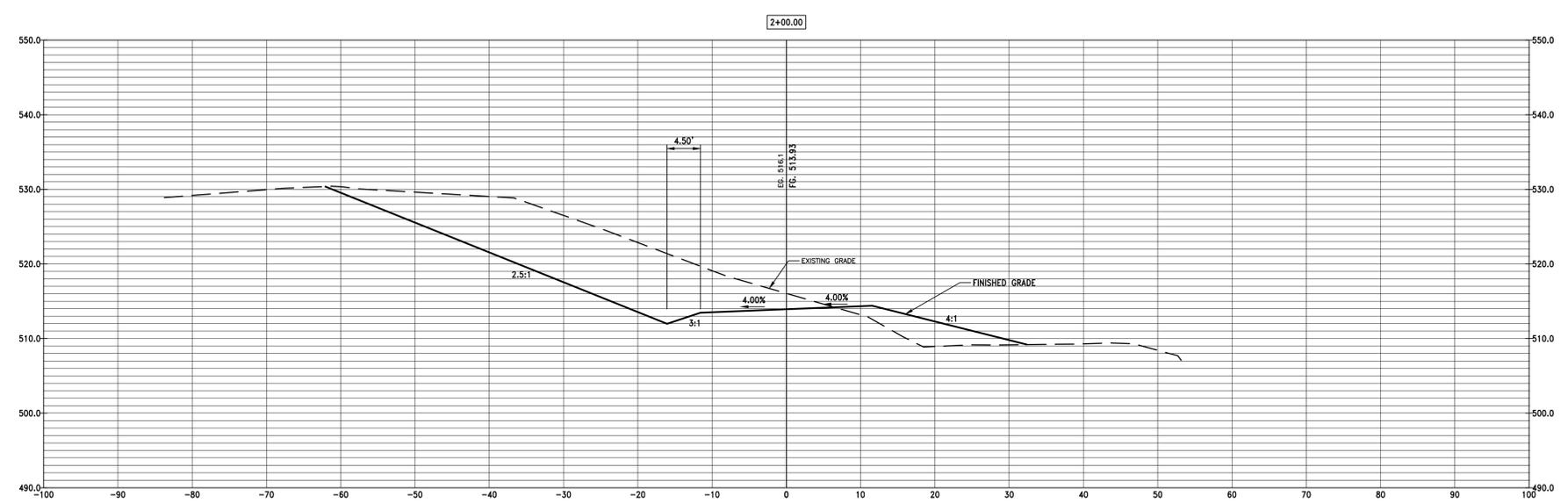
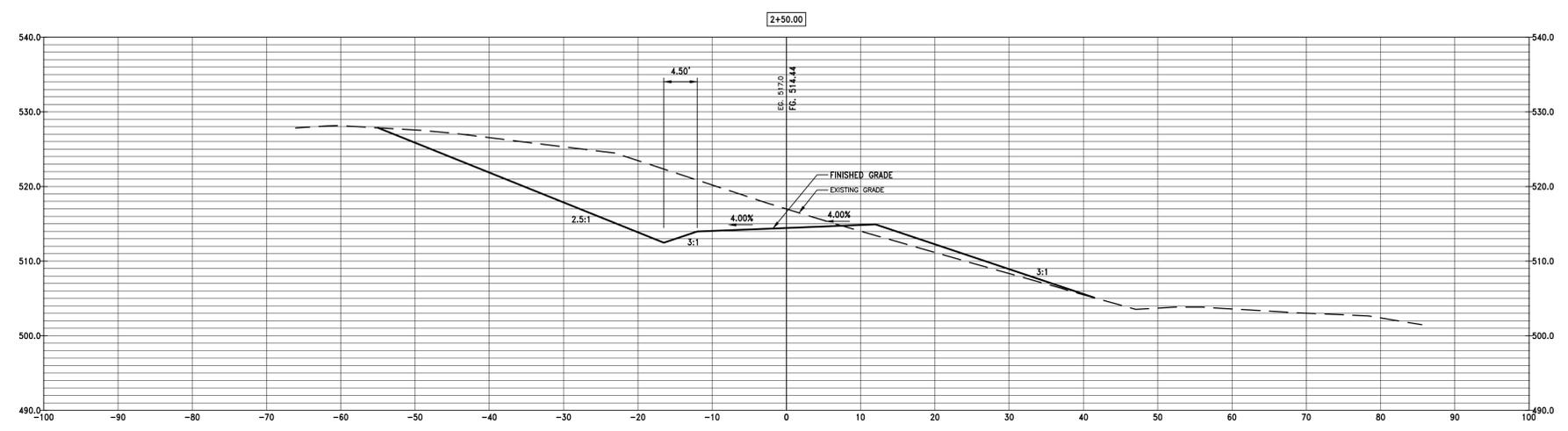
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Sheet Title  
 CROSS SECTIONS  
 STA. 1+50 TO  
 STA. 2+50

Sheet No.  
 C31



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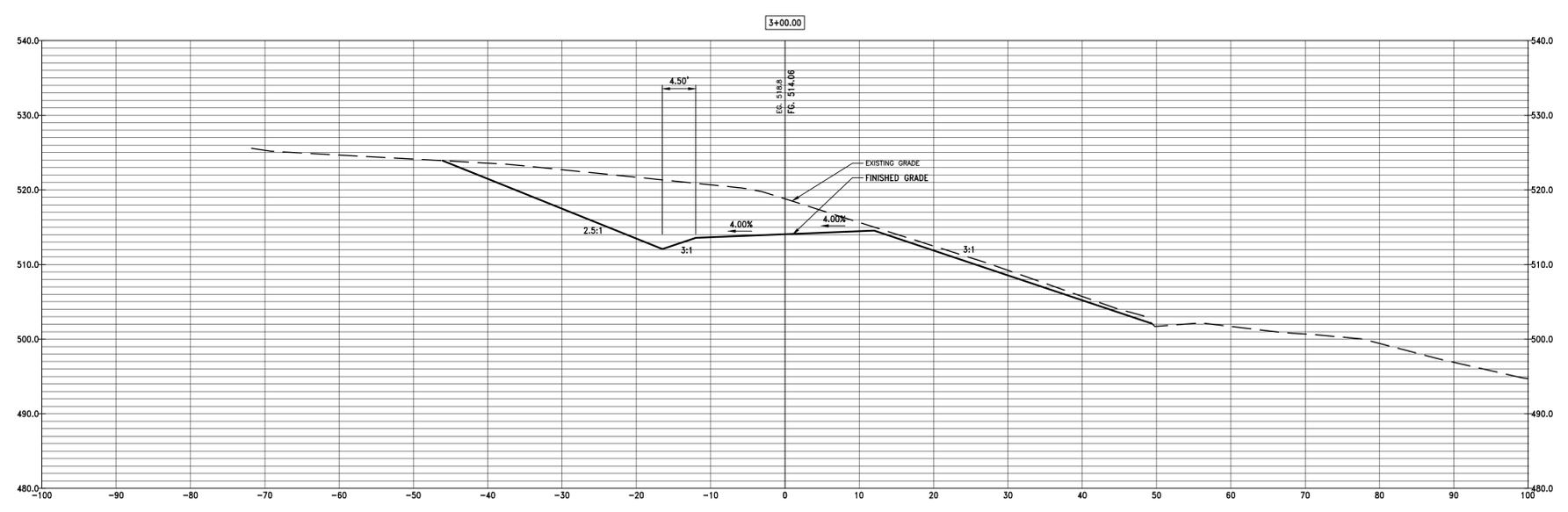
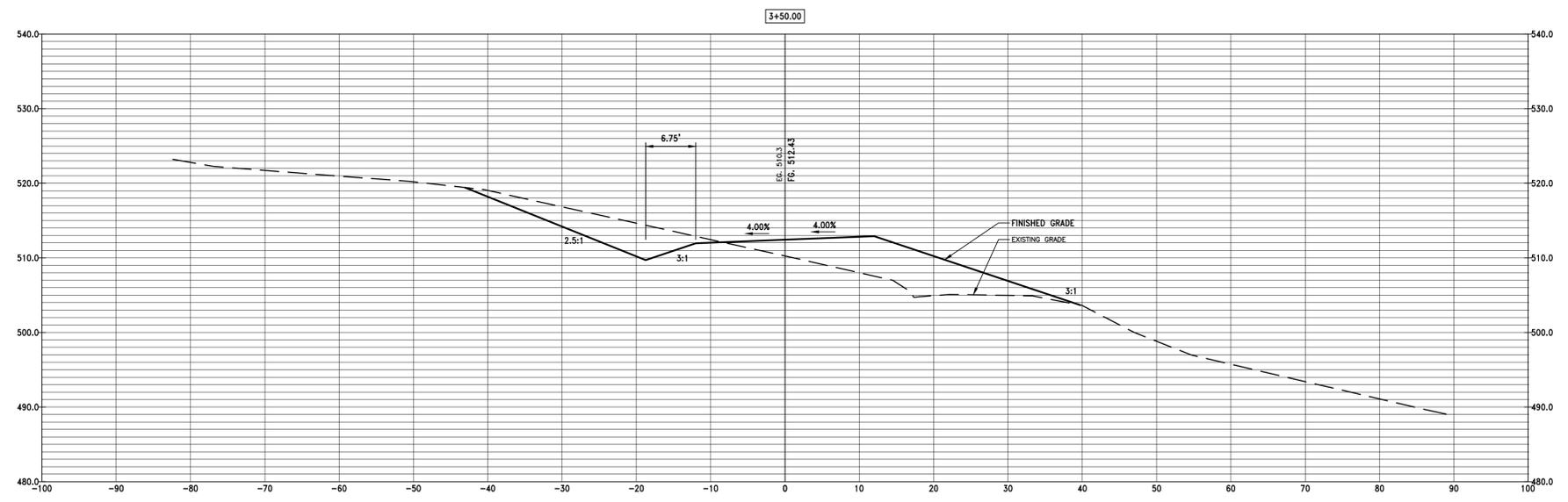
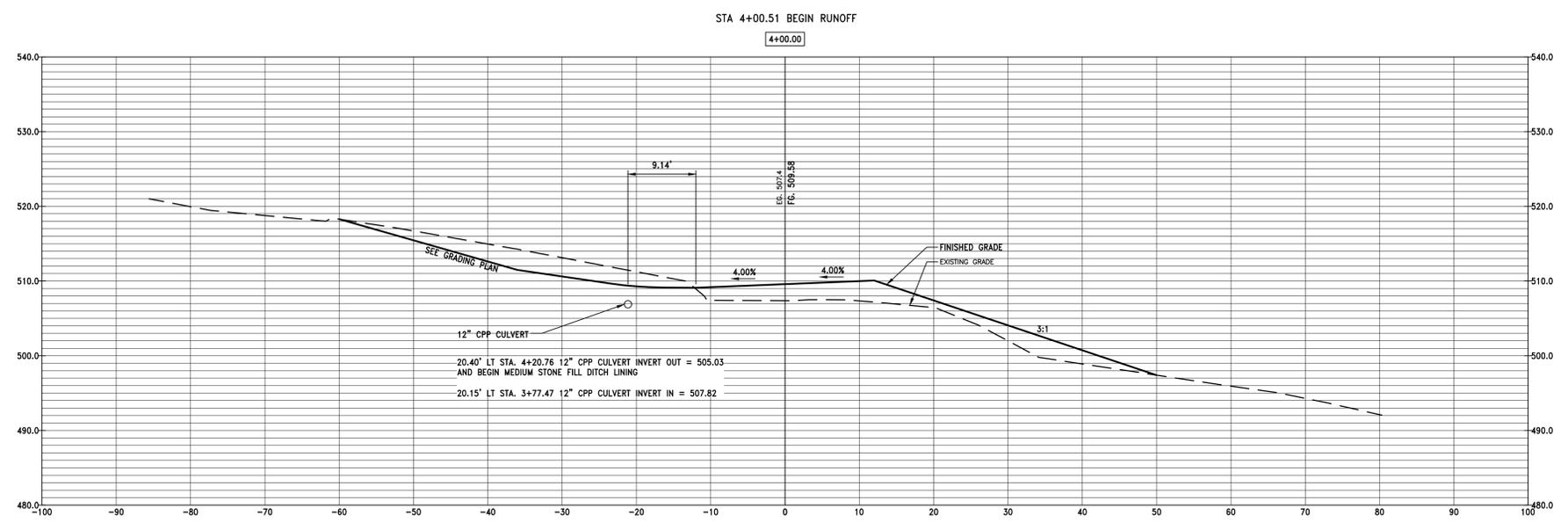
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Sheet Title  
**CROSS SECTIONS**  
 STA. 3+00 TO  
 STA. 4+00

Sheet No.  
**C32**



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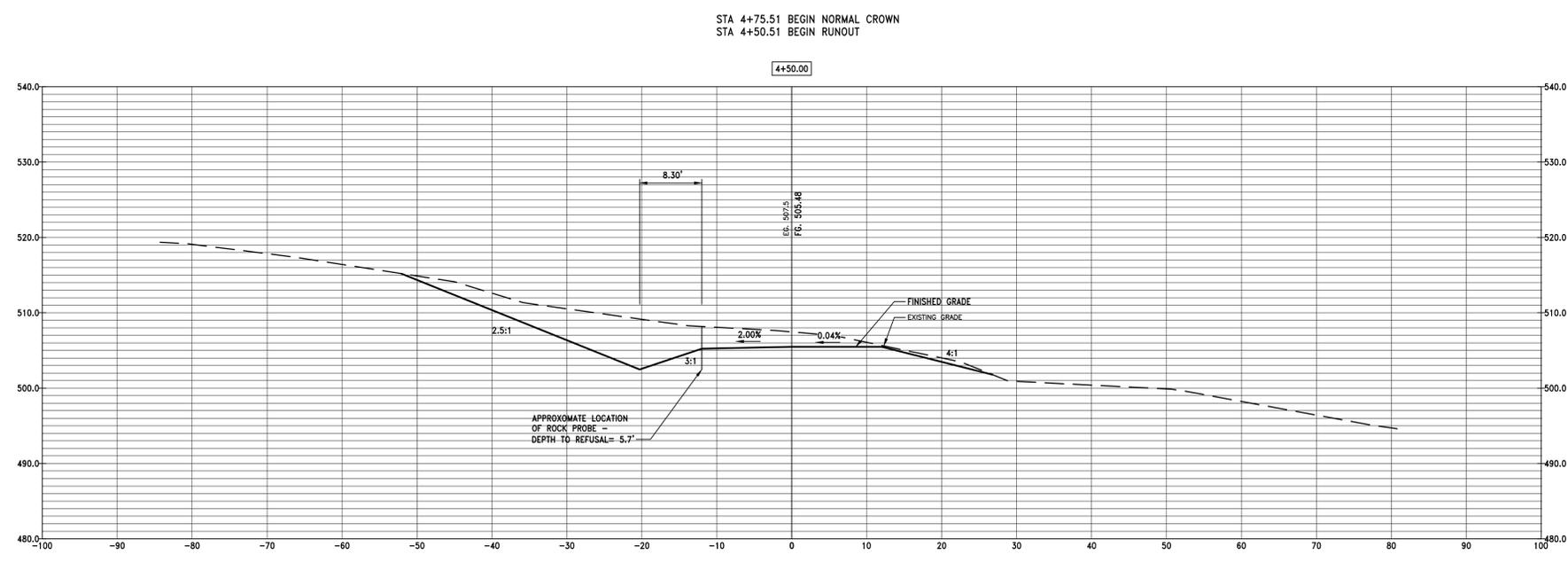
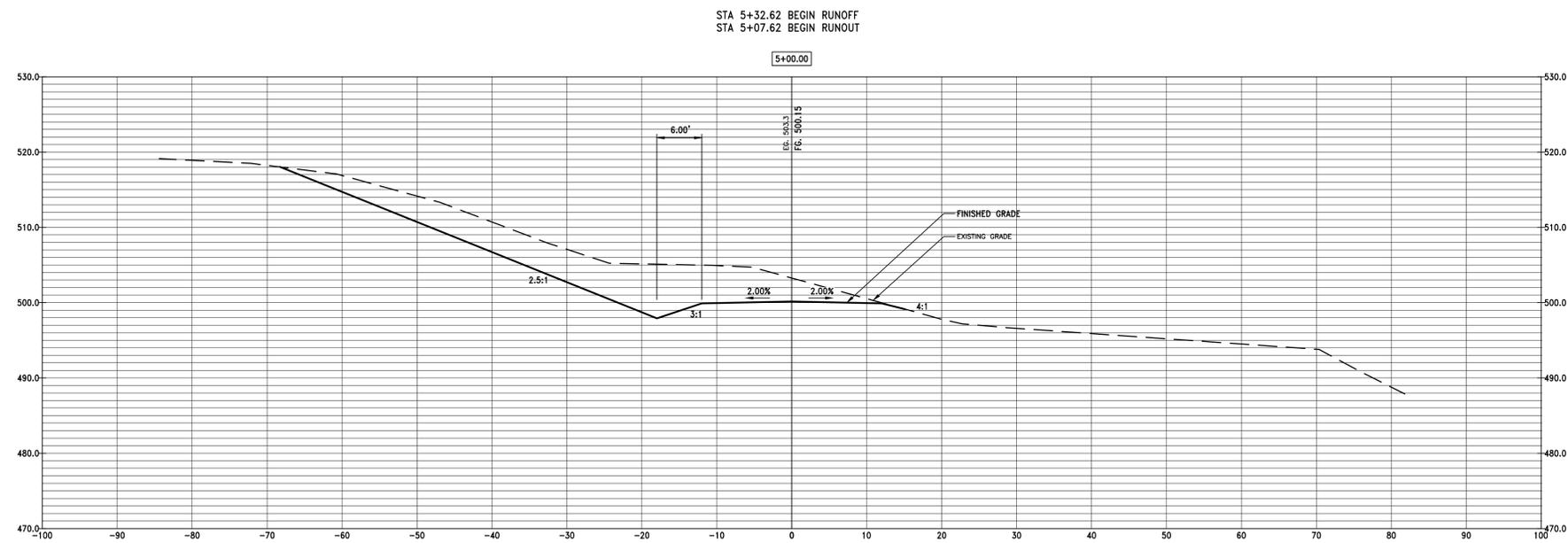
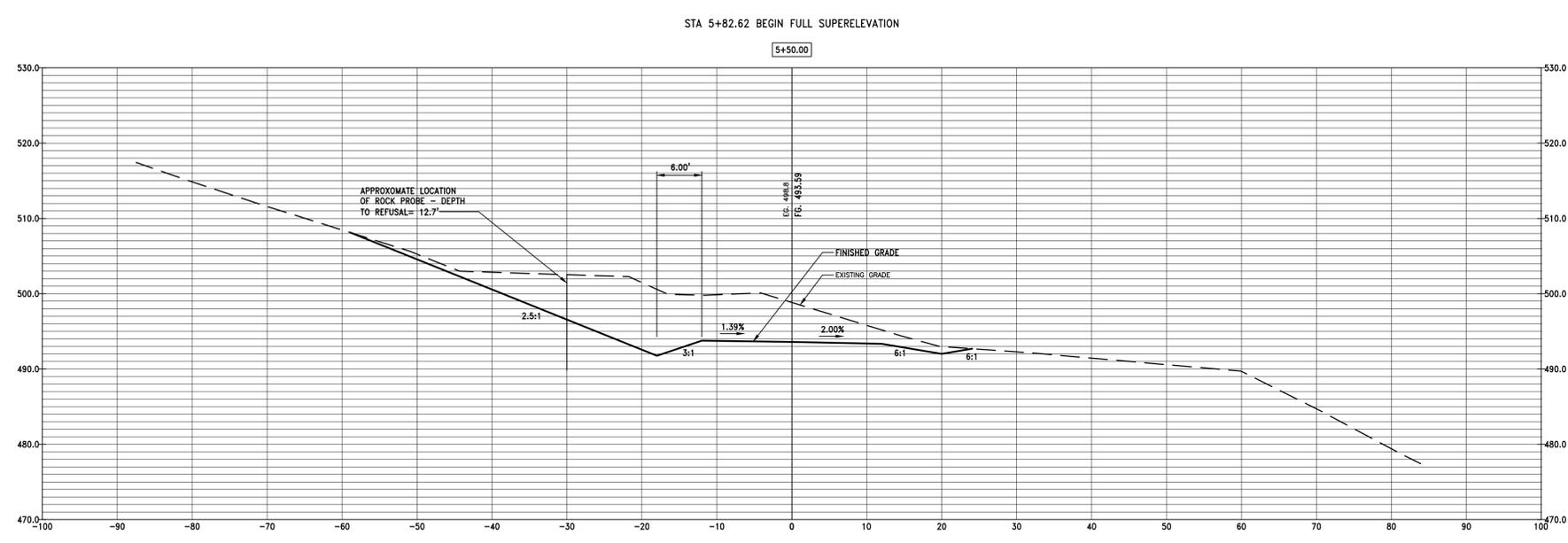
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Sheet Title  
**CROSS SECTIONS**  
 STA. 4+50 TO  
 STA. 5+50

Sheet No.  
**C33**



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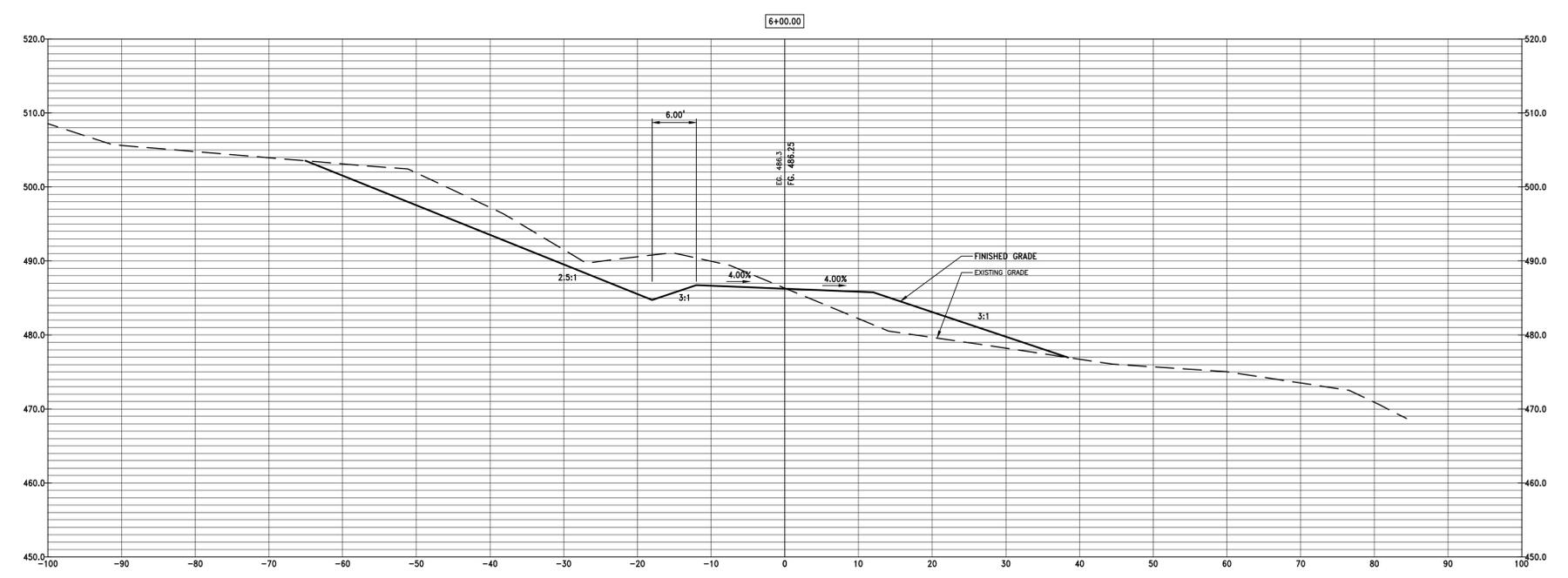
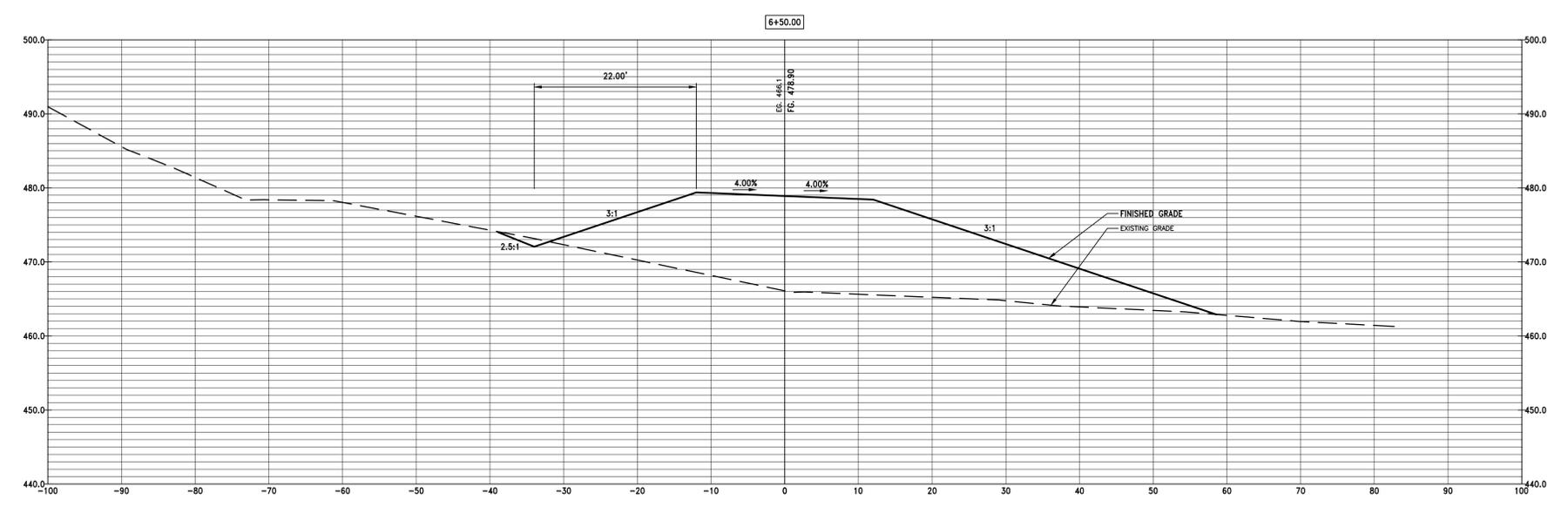
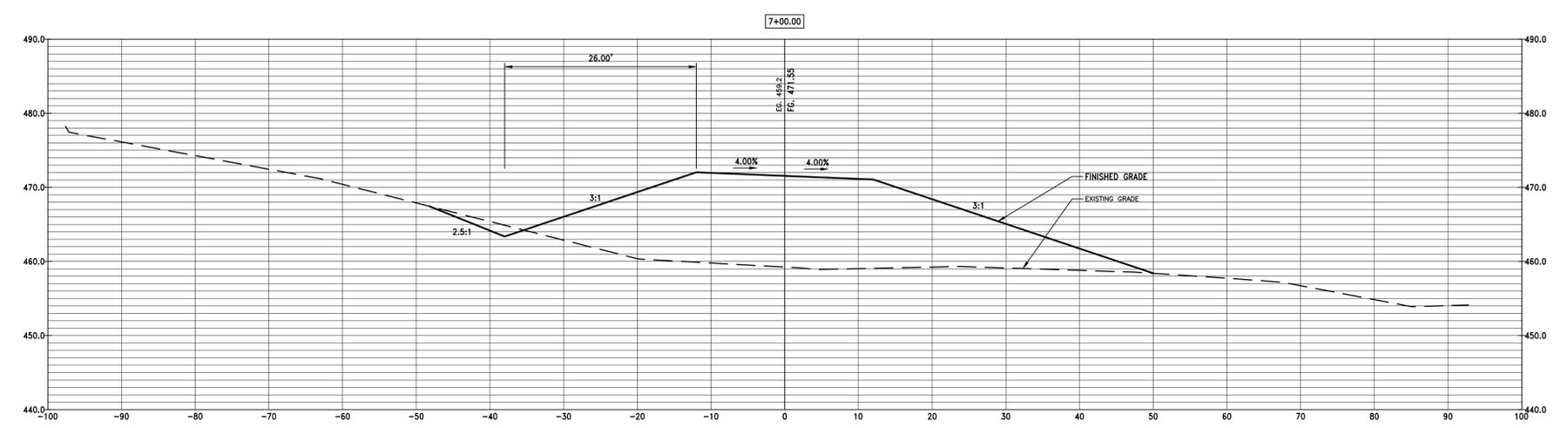
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Sheet Title  
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 STA. 6+00 TO  
 STA. 7+00

Sheet No.  
 C34



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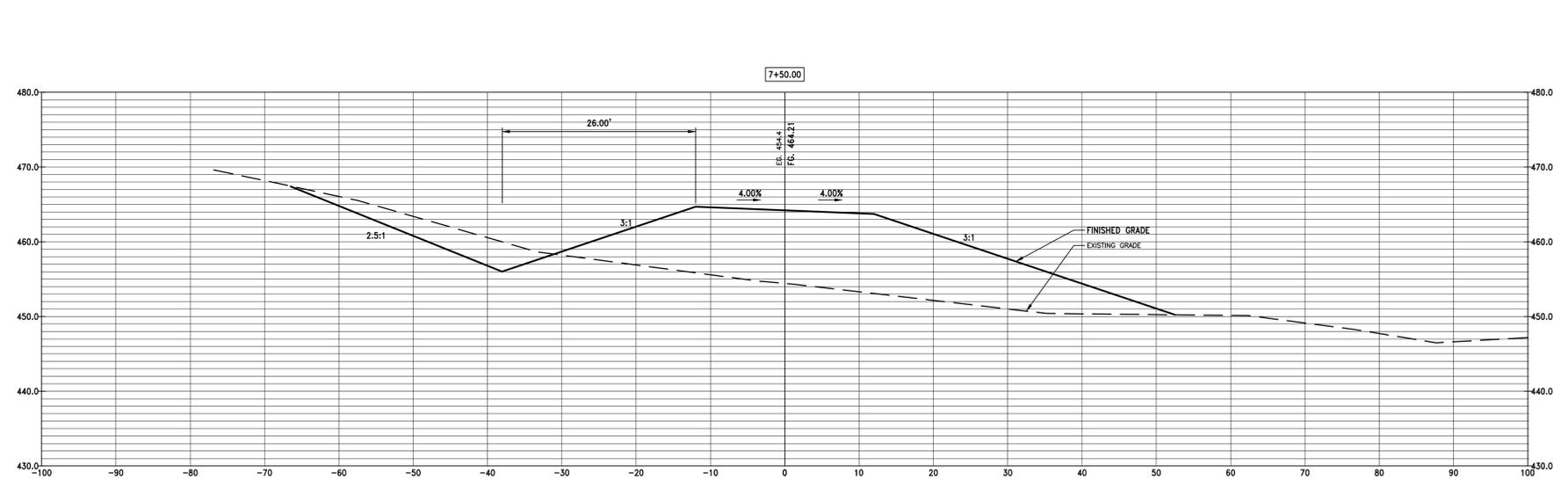
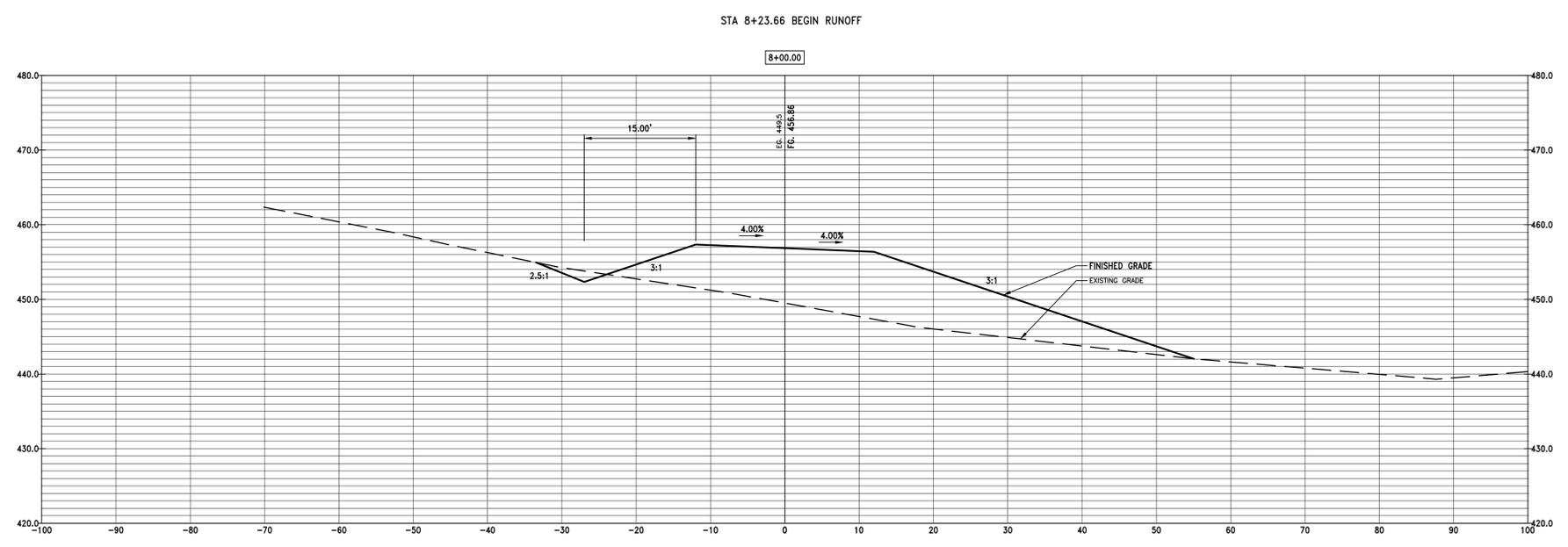
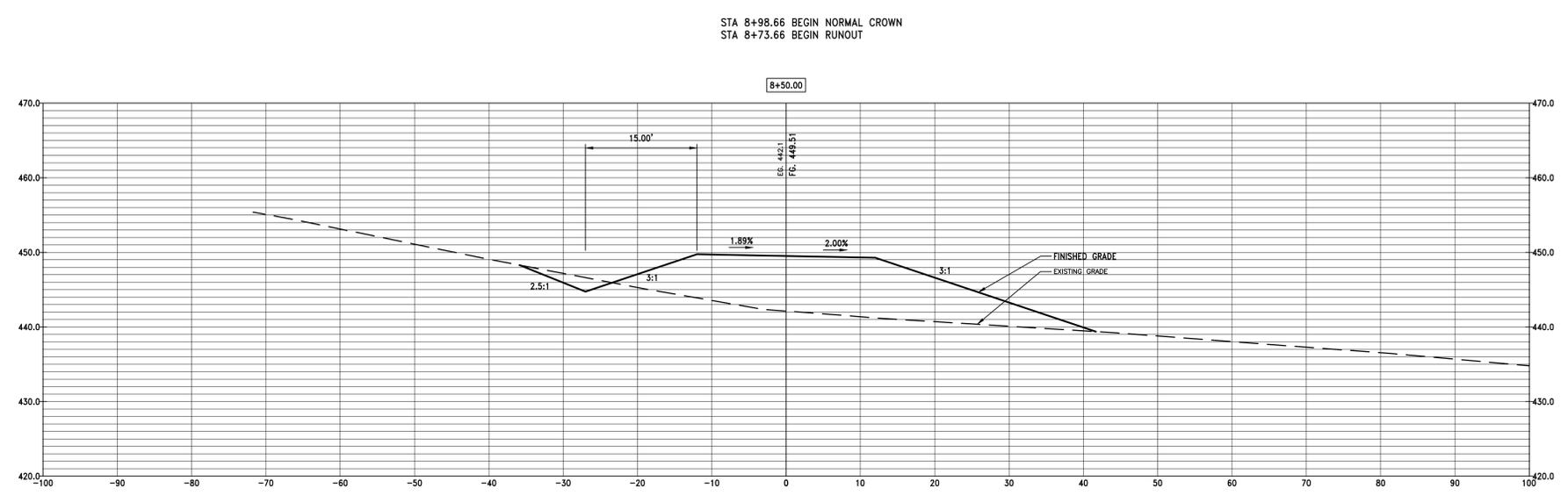
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CROSS SECTIONS  
 STA. 7+50 TO  
 STA. 8+50

Sheet No. C35



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COLE HOLLOW ROAD REALIGNMENT  
 TOWN OF BLENHEIM  
 SCHOHARIE COUNTY NEW YORK STATE

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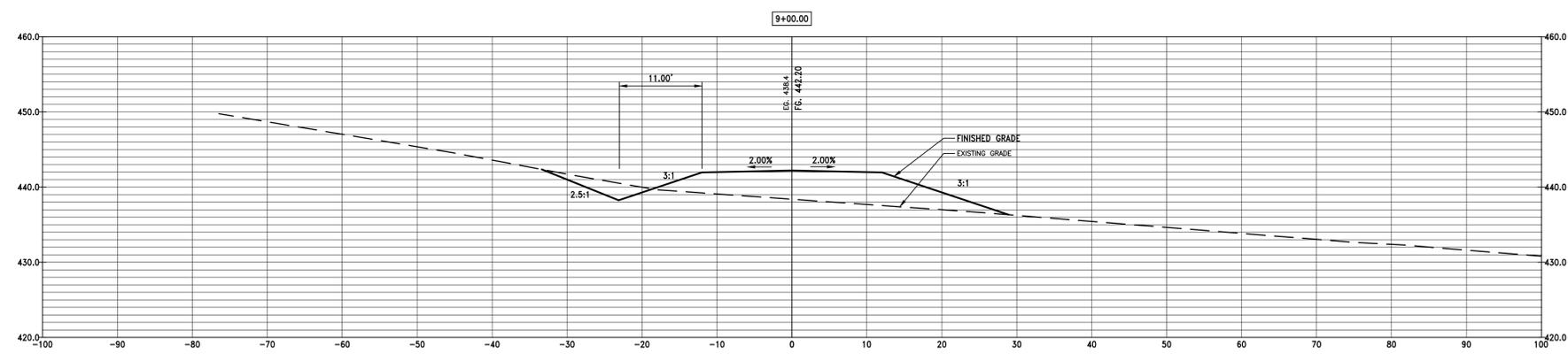
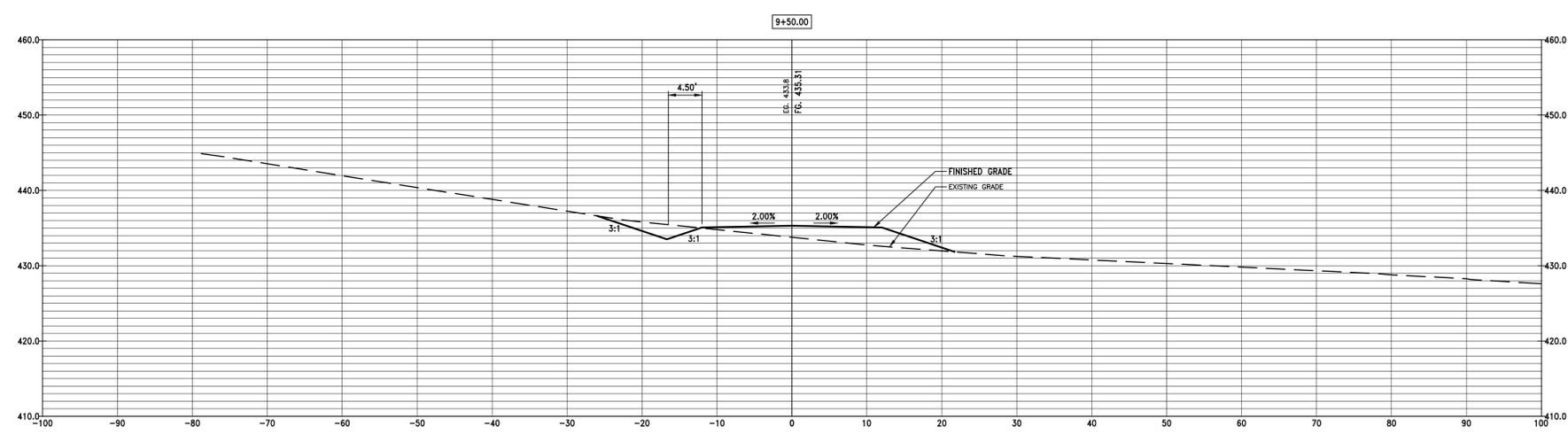
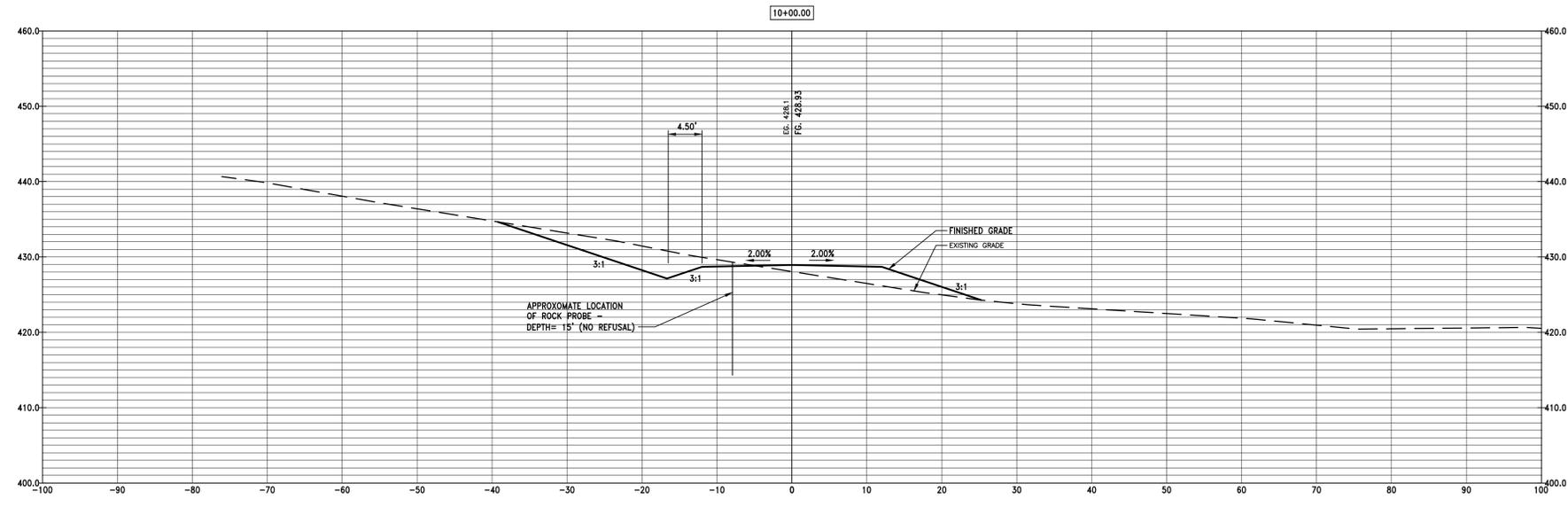
Stamp

Issue	Rev.	Date	Remarks
A	10/27/13	FOR LAMP ACQUISITION	
B	12/17/13	FOR EDMA APPROVAL	

Project Number 2012053  
 Drawn By TJS  
 Designed By FV  
 Checked By FV  
 Date 11/21/12  
 Scale 1"=10'  
 File Name BM\_BLENHEIMROAD

CROSS SECTIONS  
 STA. 9+00 TO  
 STA. 10+00

Sheet No. C36





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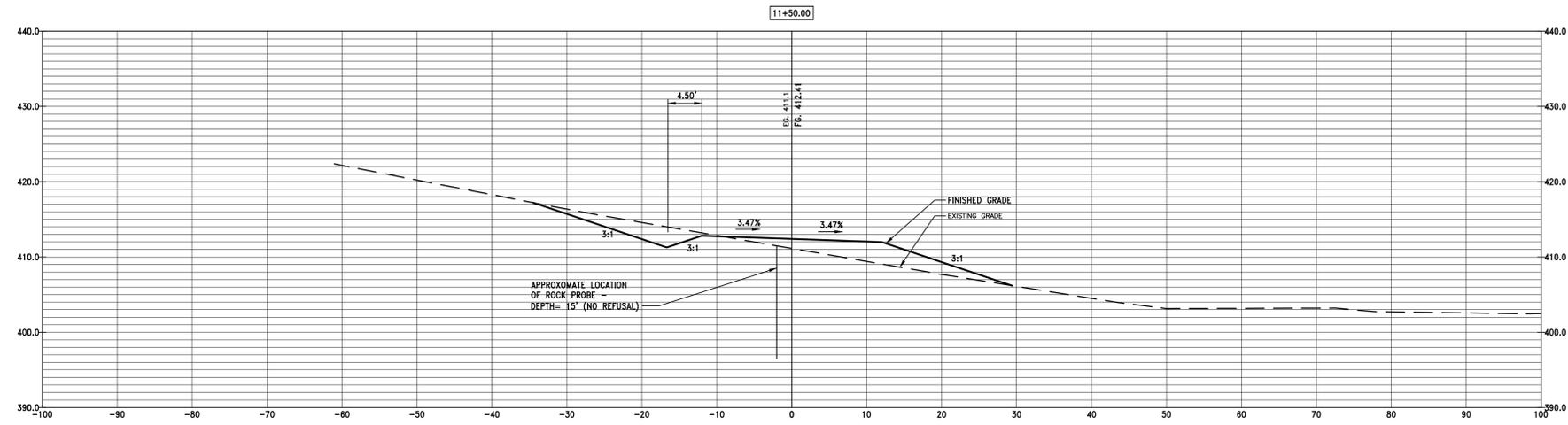
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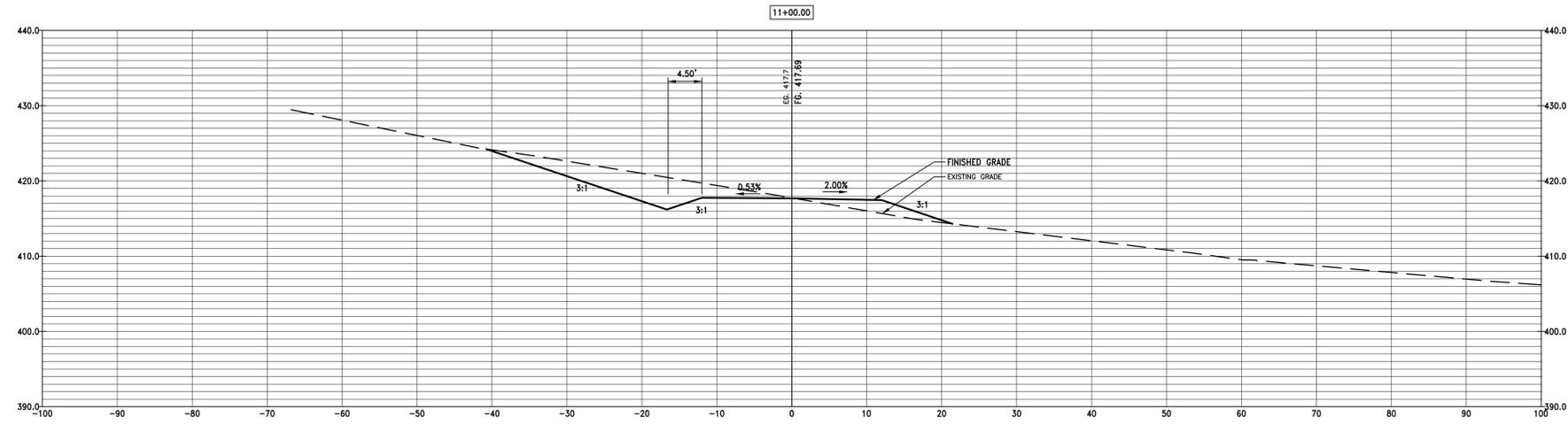
Sheet Title  
CROSS SECTIONS  
STA. 10+50 TO  
STA. 11+50

Sheet No.  
C37

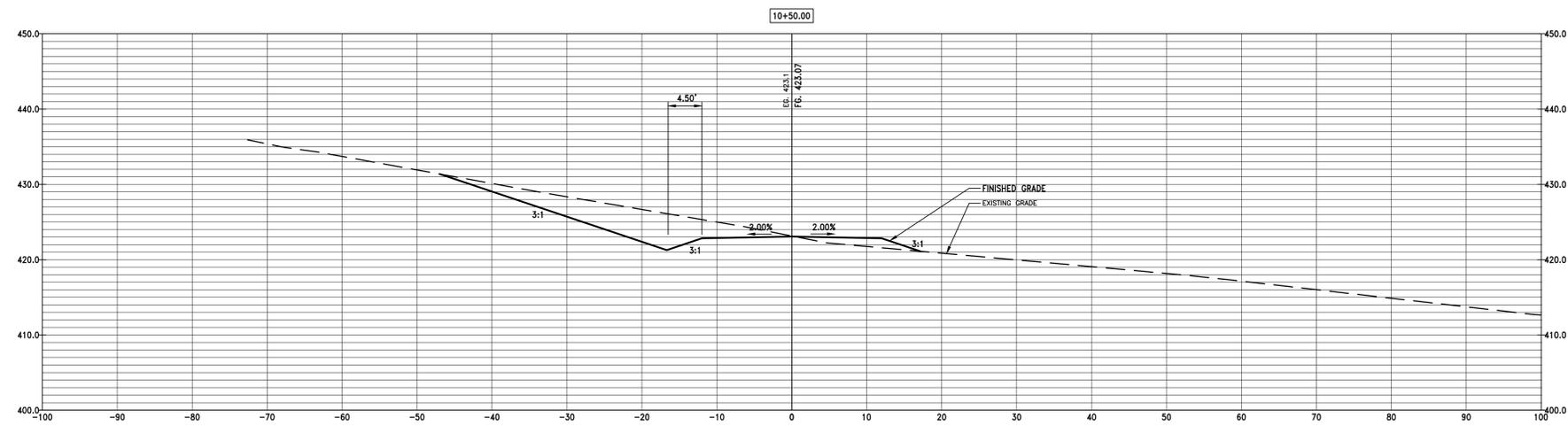
STA 11+56.59 BEGIN FULL SUPERELEVATION



STA 11+06.59 BEGIN RUNOFF



STA 10+81.59 BEGIN RUNOUT





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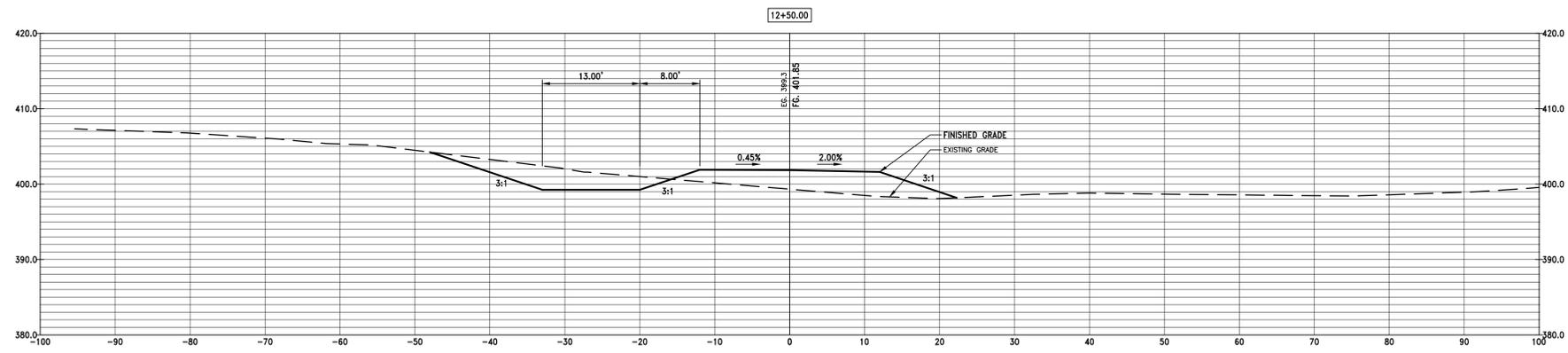
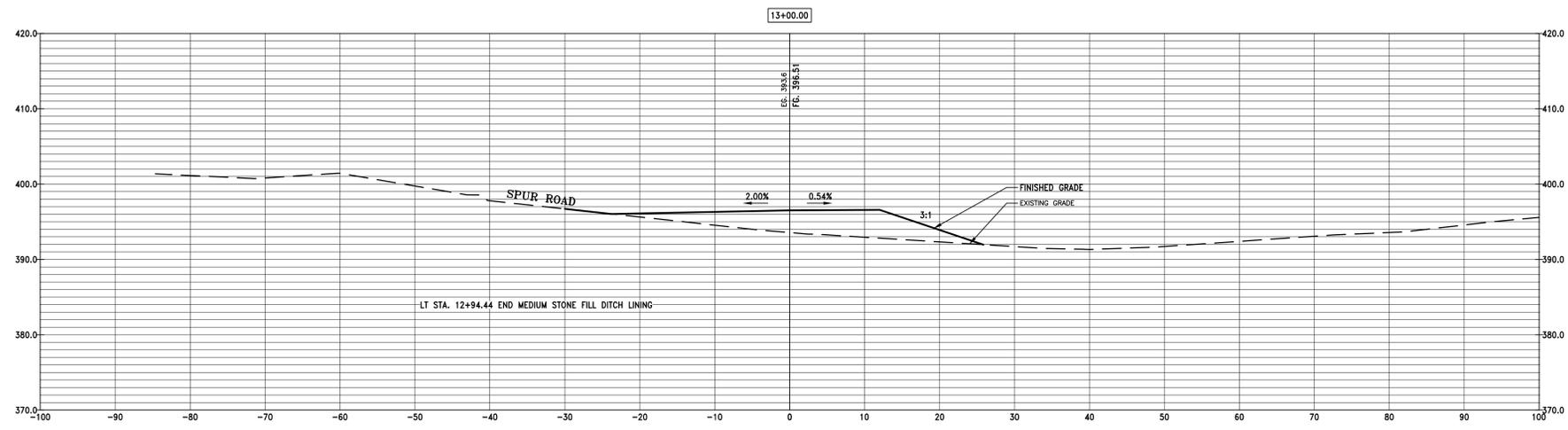
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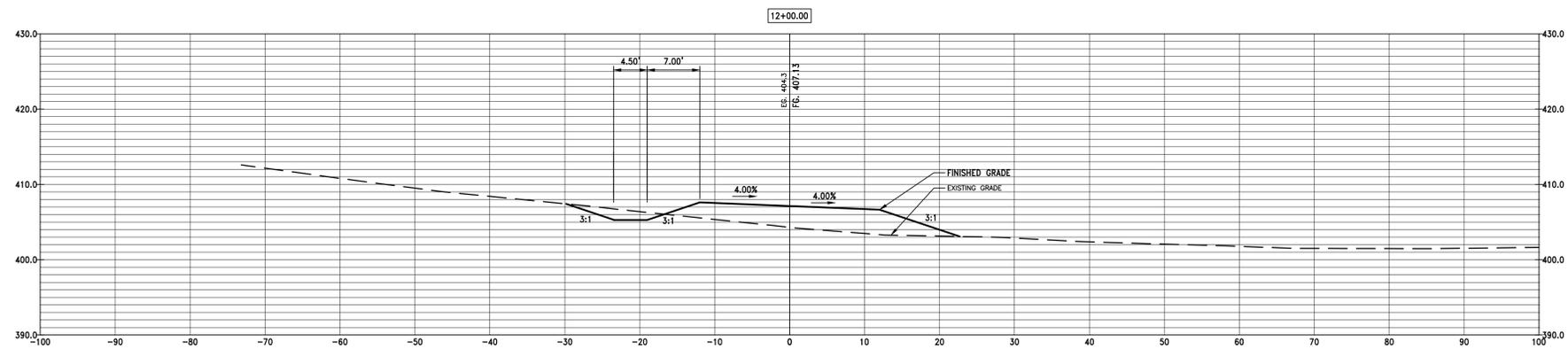
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File Name BM\_BLENHEIMROAD

Sheet Title  
CROSS SECTIONS  
STA. 12+00 TO  
STA. 13+00

Sheet No.  
C38



STA 12+05.57 BEGIN RUNOFF



1

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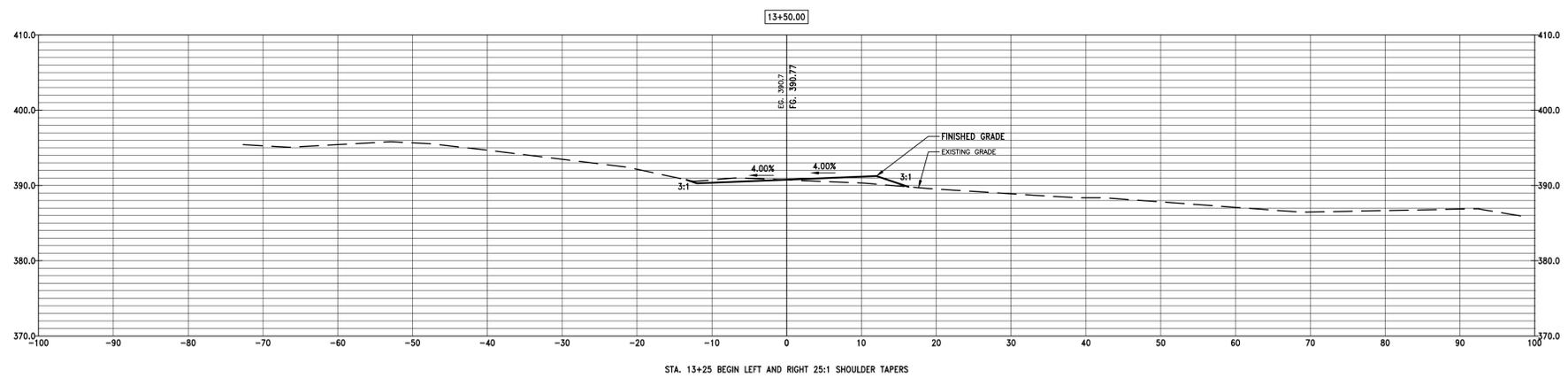
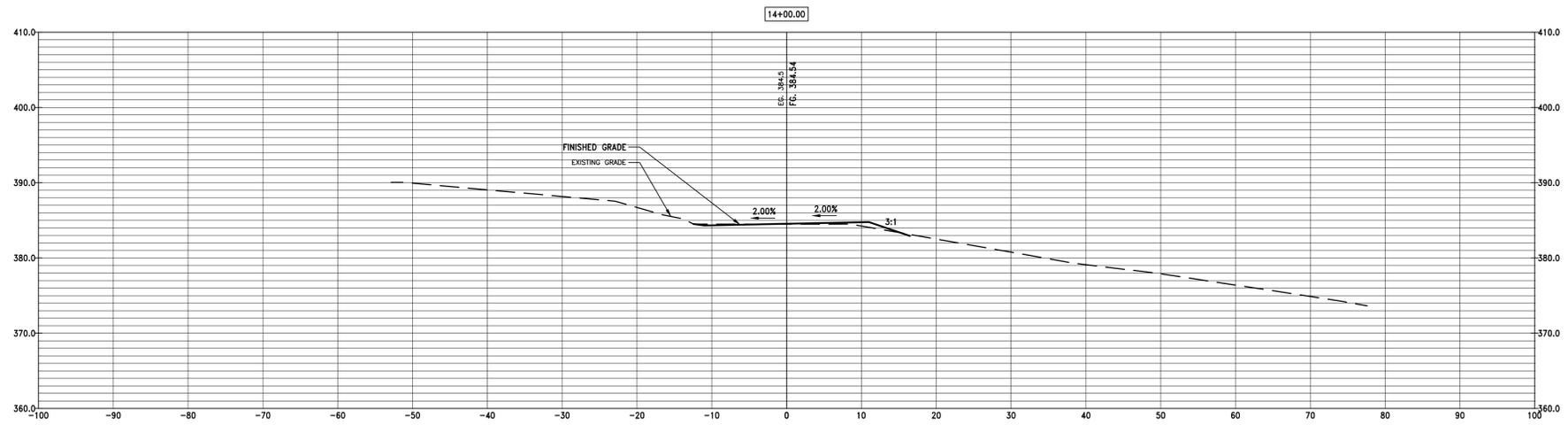
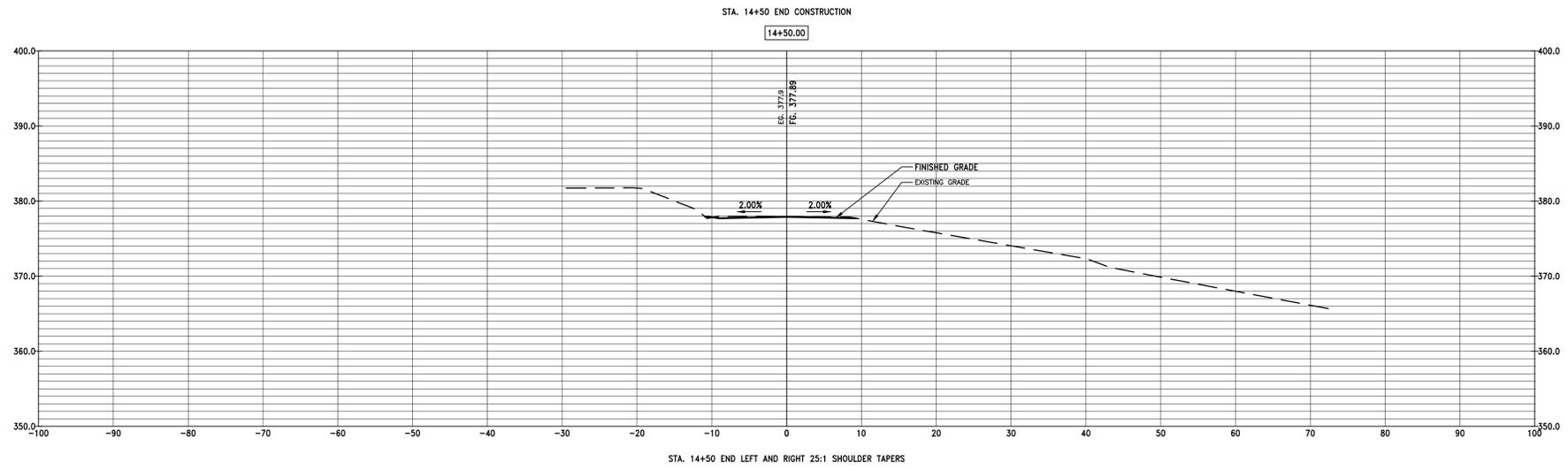
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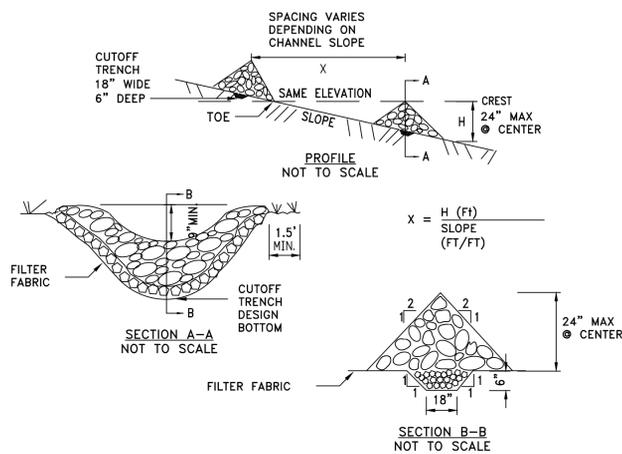
Sheet Title  
CROSS SECTIONS  
STA. 13+50 TO  
STA. 14+50

Sheet No.  
C39





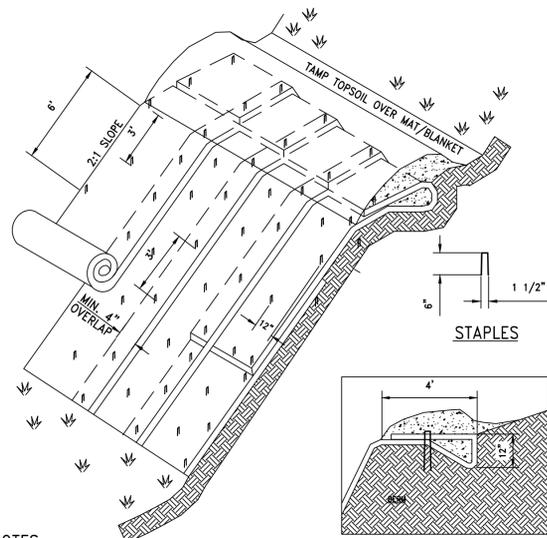
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**CONSTRUCTION SPECIFICATIONS**

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRIES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

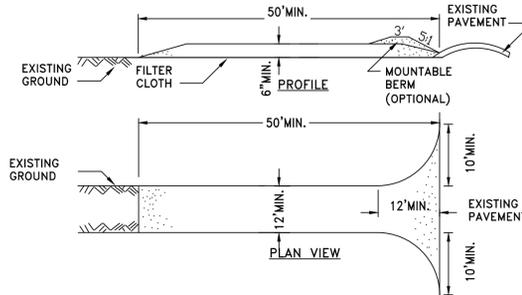
**2** DETAIL- CHECK DAM  
C40 SCALE: NTS



**NOTES**

- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/ BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
- MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.

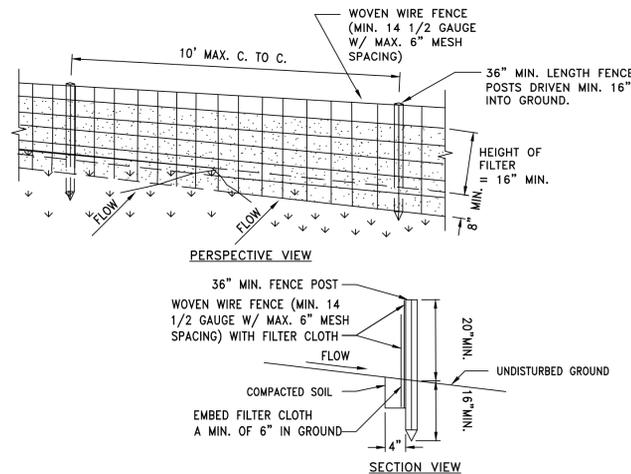
**4** DETAIL- JUTE MESH  
C40 SCALE: NTS



**CONSTRUCTION SPECIFICATIONS**

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**3** DETAIL- STABILIZED CONSTRUCTION ENTRANCE  
C40 SCALE: NTS



**CONSTRUCTION SPECIFICATIONS**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

**6** DETAIL- SILT FENCE  
C40 SCALE: NTS

**STORMWATER REQUIREMENTS:**

**CERTIFICATION:**

THIS STORMWATER POLLUTION PREVENTION PLAN REFLECTS ALL REQUIREMENTS AS DESCRIBED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" MANUAL PUBLISHED BY THE EMPIRE STATE SOIL AND WATER CONSERVATION SOCIETY, AND THE NYSDEC PUBLICATION ENTITLED "STORMWATER MANAGEMENT DESIGN MANUAL- AUGUST 2010".

ALL CONTRACTORS AND SUBCONTRACTORS RESPONSIBLE FOR SITEMARK ON THIS CONTRACT SHALL SIGN A COPY OF THE FOLLOWING STATEMENT BEFORE UNDERTAKING ANY CONSTRUCTION ACTIVITY ON THE PROJECT. A COPY OF THIS STATEMENT IS INCLUDED IN THE REPORT SECTION OF THE SWPPP.

"I HEREBY CERTIFY THAT I UNDERSTAND AND AGREE TO COMPLY WITH THE TERMS AND CONDITIONS OF THE SWPPP AND AGREE TO IMPLEMENT ANY CORRECTIVE ACTIONS IDENTIFIED BY THE QUALIFIED INSPECTOR DURING A SITE INSPECTION. I ALSO UNDERSTAND THAT THE OWNER OR OPERATOR MUST COMPLY WITH THE TERMS AND CONDITIONS OF THE NEW YORK STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS. FURTHERMORE, I UNDERSTAND THAT CERTIFYING FALSE, INCORRECT OR INACCURATE INFORMATION IS A VIOLATION OF THE REFERENCED PERMIT AND THE LAWS OF THE STATE OF NEW YORK AND COULD SUBJECT ME TO CRIMINAL, CIVIL AND/OR ADMINISTRATIVE PROCEEDINGS."

THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE; THE NAME AND TITLE OF THE "TRAINED INDIVIDUAL(S)" RESPONSIBLE FOR SWPPP IMPLEMENTATION; THE NAME, ADDRESS AND PHONE NO. OF THE CONTRACTING FIRM; THE ADDRESS OF THE SITE; AND THE DATE THE CERTIFICATION IS MADE.

**CONSTRUCTION EROSION & SEDIMENT CONTROLS:**

**TEMPORARY STABILIZATION:** TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH IMMEDIATELY AFTER THE TEMPORARY CESSATION OF CONSTRUCTION ACTIVITY IN THAT AREA. ALL AREAS MUST BE STABILIZED NO LATER THAN 14 DAYS AFTER WORK HAS CEASED. THE TEMPORARY SEED SHALL BE RYE APPLIED AT THE RATE OF 3 POUNDS PER ACRE. MULCH AND WATER SHALL BE APPLIED PER VEGETATION SPECIFICATION. SLOPES OVER 3(H):1(V) SHALL BE STABILIZED WITH JUTE MESH, UNTIL SUCH TIME AS VEGETATION HAS BEEN ESTABLISHED. AREAS TO BE PAVED SHALL BE TEMPORARILY STABILIZED WITH GEOTEXTILES AND STONE SUB-BASE MATERIAL, AS SHOWN ON THE PLANS, UNTIL PAVEMENT IS INSTALLED.

**PERMANENT STABILIZATION:** DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. PRIOR TO PERMANENT SEEDING, APPLY FERTILIZER AND LIME TO THE SOIL PER VEGETATION SPECIFICATION. PERMANENT SEED SHALL BE INSTALLED, MULCHED, AND MAINTAINED PER VEGETATION SPECIFICATIONS.

**SILT FENCING:** AT A MINIMUM, SILT FENCING SHALL BE INSTALLED AT LOCATIONS SHOWN AND AS DETAILED ON THE DRAWINGS. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL SILT FENCING, TO PROVIDE NECESSARY SEDIMENT CONTROL WHERE ACTIVITIES OF THE CONTRACTOR MAY RESULT IN OFF-SITE SEDIMENT DISCHARGE. SILT FENCE MUST BE INSTALLED ALONG THE PERIMETER OF THE TOE OF SLOPE AT ALL SOIL STOCK PILES.

**CONSTRUCTION FENCING:** SHALL BE INSTALLED AT LOCATIONS SHOWN AND AS DETAILED ON THE DRAWINGS. THE PURPOSE OF THE FENCING IS TO DELINEATE THE LIMITS OF DISTURBANCE AND TO PROTECT THE BUFFER ZONE VEGETATION.

**STABILIZED CONSTRUCTION ENTRANCE:** SHALL BE INSTALLED AT LOCATIONS SHOWN AND AS DETAILED ON THE DRAWINGS. THE PURPOSE OF THE ENTRANCE IS TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.

**MAINTENANCE SCHEDULE:**

CONSTRUCTION PHASE	SCHEDULED MAINTENANCE
ITEM	
-STABILIZED CONSTRUCTION ENTRANCE	-ADDITIONAL STONE AND MAINTENANCE AS NEEDED. ALL SEDIMENT TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED AT THE END OF EACH DAY.
-TEMPORARY SILT FENCES	-MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.
-TEMPORARY CONSTRUCTION FENCES	-MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN CONSTRUCTION FENCE.
-GENERAL SITE INSPECTION	-INSPECT THE CLEARING AND GRADING LIMITS ADJACENT TO THE ENVIRONMENTALLY SENSITIVE AREAS TO ENSURE THAT SEDIMENT IS NOT ENTERING THESE PROTECTED AREAS. ONCE A MONTH INSPECT THE PERIMETER OF THE SITE AND NOTE ANY AREAS IN NEED OF ADDITIONAL EROSION CONTROLS OR MAINTENANCE.

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Issue No.	Date	Remarks
1	02/20/13	REV. PER COMMENTS
2	02/20/13	REV. PER COMMENTS

Project Number 2012053

Drawn By TJS

Designed By FV

Checked By FV

Date 3/20/13

Scale AS SHOWN

File Name DETAILS

Sheet Title

EROSION AND  
SEDIMENT  
CONTROL DETAILS

Sheet No.

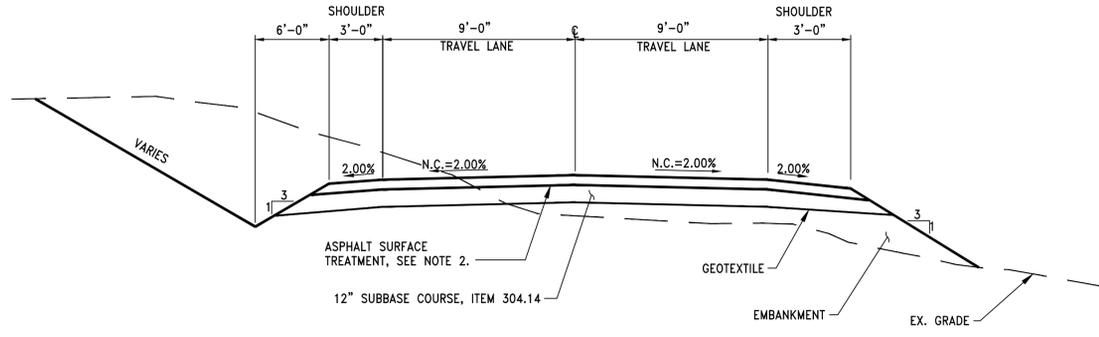
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Issue No.	Date	Remarks
1	12/17/13 FOR PLAN APPROVAL	
2	12/17/13 FOR CHANNEL PROTECTION	
3	10/25/13 FOR LAND ACQUISITION	

Project Number	2012053
Drawn By	TJS
Designed By	FV
Checked By	FV
Date	3/20/13
Scale	AS SHOWN
File Name	DETAILS

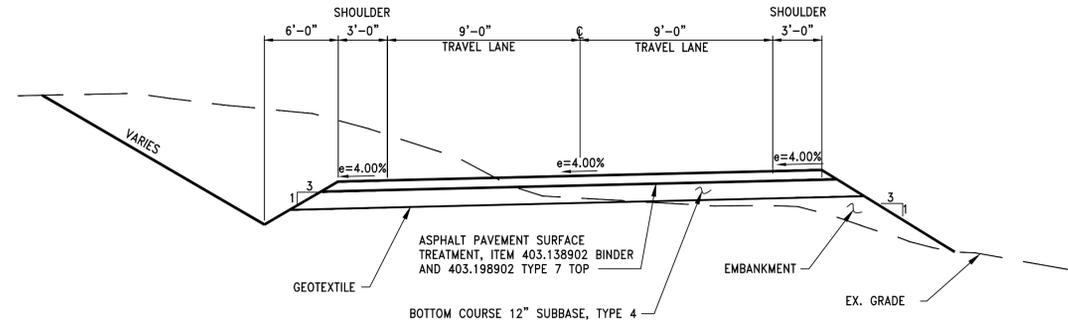
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Sheet No.  
**C41**



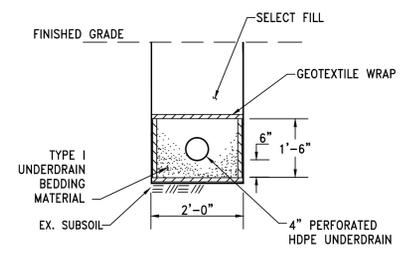
- NOTES:**
- HORIZONTAL DIMENSIONS MAY VARY FROM TYPICAL, SEE CROSS SECTIONS.
  - 3" BOTTOM COURSE TYPE 2 COLD MIX BITUMINOUS PAVEMENT (PAVEMENT AND SHOULDERS) ITEM 405.01 AND TWO TOP COURSE BITUMINOUS TREATMENT (PAVEMENT AND SHOULDERS) ITEM 410.07

**1 TYPICAL SECTION - NORMAL CROWN**  
 SCALE: NTS

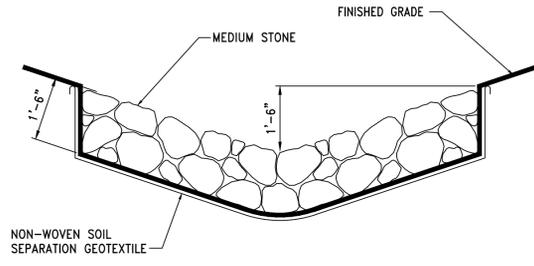


- NOTES:**
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  - 3" BOTTOM COURSE TYPE 2 COLD MIX BITUMINOUS PAVEMENT (PAVEMENT AND SHOULDERS) ITEM 405.01 AND TWO TOP COURSE BITUMINOUS TREATMENT (PAVEMENT AND SHOULDERS) ITEM 410.07

**2 TYPICAL SECTION - SUPERELEVATION**  
 SCALE: NTS

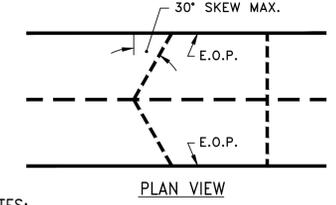
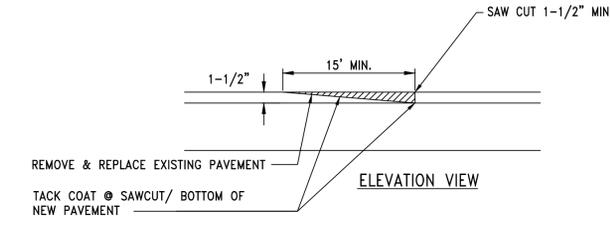


**3 UNDERDRAIN DETAIL**  
 SCALE: NOT TO SCALE



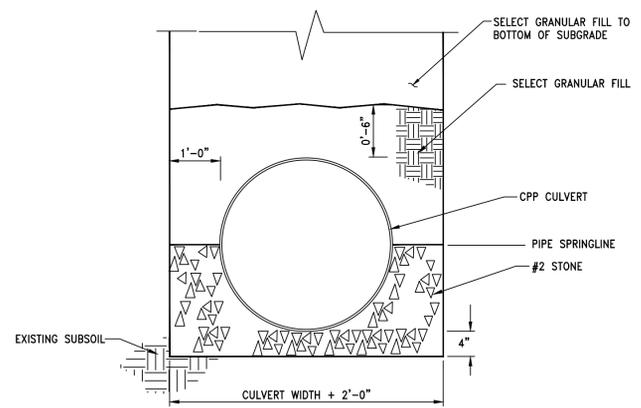
**NOTE:**  
 EXCAVATE DITCH TO ACCOMMODATE MEDIUM STONE FILLING DITCH PROTECTION.

**4 MEDIUM STONE FILLING CHANNEL PROTECTION DETAIL**  
 SCALE: NTS



- NOTES:**
- REBATE TO BE USED AT BEGINNING AND END OF PAVING LIMITS.
  - REBATE SHALL BE CONSTRUCTED AT A MAXIMUM OF 30° ± SKEW. SKEW MAY BE ADJUSTED A.O.B.E. TO FIT EXISTING PAVEMENT ORDER.

**5 PAVING REBATE DETAIL**  
 SCALE: N.T.S.



**6 CULVERT TRENCH DETAIL**  
 SCALE: NO SCALE