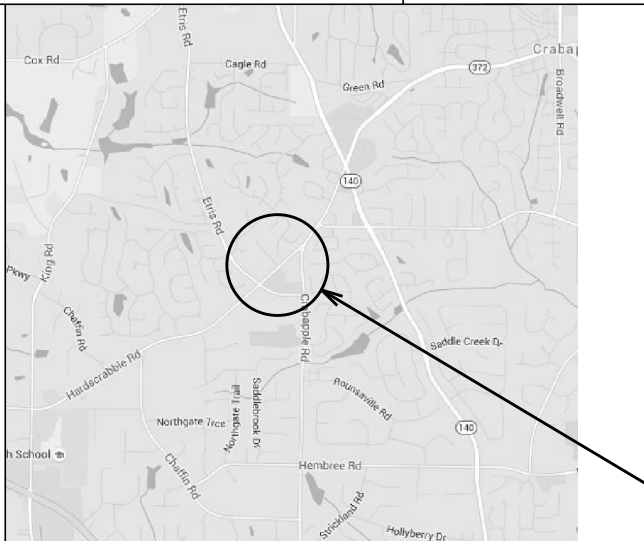


CITY OF ROSWELL TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED PHASE I - HARDCRABBLE ROAD SIDEWALK FROM ETRIS ROAD TO CRABAPPLE ROAD

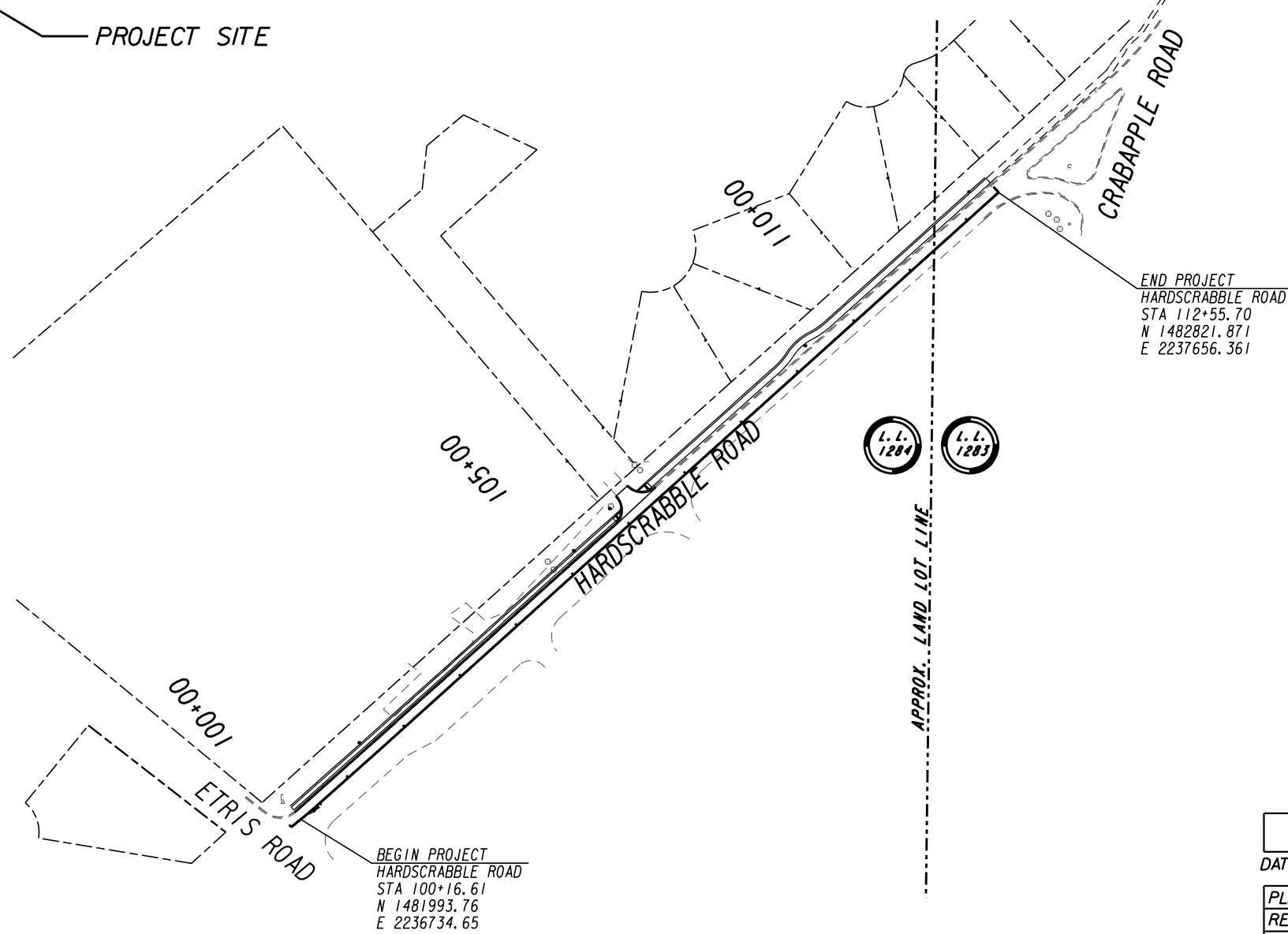


LOCATION SKETCH

PROJECT SITE

SPEED LIMIT: 40 MPH
SCHOOL ZONE SPEED LIMIT: 25 MPH

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



END PROJECT
HARDCRABBLE ROAD
STA 112+55.70
N 1482821.871
E 2237656.361

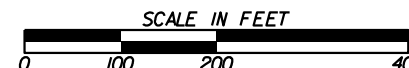
BEGIN PROJECT
HARDCRABBLE ROAD
STA 100+16.61
N 1481993.76
E 2236734.65


CITY OF ROSWELL
DEPARTMENT OF TRANSPORTATION
38 HILL STREET, SUITE 235
ROSWELL, GA 30075
770-594-6420

PREPARED BY: _____
DESIGN



LENGTH OF PROJECT	COUNTY No.
	Project No.
	MILES
NET LENGTH OF ROADWAY	0.24
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.24
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.24



THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

DATE	CHIEF ENGINEER
PLANS COMPLETED 10-5-2018	
REVISIONS	

DRAWING No.
01-0001

GENERAL NOTES

1. A NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT.
2. ALL CONSTRUCTION WILL BE ACCOMPLISHED UNDER TRAFFIC UNLESS SPECIFIED OTHERWISE.
3. ALL TRAFFIC CONTROL MUST FOLLOW MUTCD PART 6 "TEMPORARY TRAFFIC CONTROL."
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY RESULTING BROKEN WATER, SANITARY SEWER PIPE OR OTHER UTILITIES DURING CONSTRUCTION.
5. ALL EXISTING WATER, SANITARY SEWER PIPE AND OTHER UTILITIES SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL DISPOSE OF ALL GUARDRAIL, WOOD STRAIN POLES, AND SIGNS ONCE THEY HAVE BEEN REMOVED. BURIAL OF THESE ITEMS WILL NOT BE ALLOWED WITHIN THE PROJECT LIMITS.
7. PAYMENT FOR ALL REMOVALS SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE.
8. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND, I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED. DRIVES SHALL BE CONSTRUCTED USING:
 - ASPHALT - 1.5" ASPH CONC 9.5mm SUPERPAVE (165 LB/SY)
GRADED AGGREGATE BASE, 6"
 - CONCRETE - RESIDENTIAL DRIVEWAY CONCRETE, 6" THICK
COMMERCIAL DRIVEWAY CONCRETE, 8" THICK
9. WARNING SURFACES FOR RAMPS SHALL BE FEDERAL STANDARD 595 COLOR FS 20109 (DARK RED IN COLOR), CAST-IN-PLACE DETECTABLE WARNING TILE.
10. TOTAL DISTURBED AREA = 0.45 ACRES
TOTAL PROJECT AREA = 0.87 ACRES

STANDARD SIGNS GENERAL NOTES

1. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE SPECIFIC ITEM.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), LATEST EDITION, AND ANY APPLICABLE CITY OF ROSWELL STANDARDS.
3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. ALL SIGNS SHALL HAVE TYPE II RETROREFLECTIVE SHEETING EXCEPT SCHOOL RELATED SIGNS, WITH THEIR REQUIRED PLAQUES AND ADVISORY NAME BLADES, WHICH SHALL HAVE FLUORESCENT YELLOW/GREEN COLOR AND TYPE II SHEETING.
6. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
7. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
8. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE, SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE II (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
9. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
10. ALL SIGNS SHALL BE ON 5052-H38 FLAT ALUMINUM ALLOY (0.080 GAUGE THICKNESS) WITH ROUNDED CORNERS. ALL SIGNS SHALL MEET OR EXCEED ASTM D 4956 SPECIFICATIONS FOR RETROREFLECTIVITY. SIGN COLORS SHALL BE MATCHED VISUALLY AND BE WITHIN THE COLOR TOLERANCE LIMITS SHOWN ON THE APPROPRIATE HIGHWAY COLOR TOLERANCE CHARTS ISSUED BY THE FHWA UTILIZING THE INSTRUCTIONS THEREON.

UTILITY OWNER	SERVICE	CONTACT NUMBERS	SHEET NUMBERS
AT&T	COMMUNICATIONS	JOE ORDWAY (706) 701-6078	24-001 to 24-003
AGL RESOURCES	NATURAL GAS	ROBERT STACHLER rstachle@southernco.com	24-001 to 24-003
COBB EMC	ELECTRICITY	NATHAN SUTTON (678) 898-0455	24-001 to 24-003
COMCAST	COMMUNICATIONS	CHRISTOPHER BATES Christopher_Bates2@comcast.com	24-001 to 24-003
CHARTER COMMUNICATION	COMMUNICATIONS	JIMMY PRICE (404) 597-2712	24-001 to 24-003
FULTON COUNTY	WATER & SEWER	ABUL HOWLADER (404) 612-7537	24-001 to 24-003
GEORGIA POWER	ELECTRICITY	JOHN GAY (404)291-0622	24-001 to 24-003
ROSWELL D. O. T.	TRAFFIC SIGNALS	DERRICK CROWDER (678) 639-7546	24-001 to 24-003

STANDARD SIGNS GENERAL NOTES (CONT'D)

11. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS OF THE MUTCD, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL SIGNS/POSTS/PAVEMENT MARKINGS THAT ARE DUPLICATED OR CONTRARY TO THESE PLANS.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC CONTROL SIGNS THROUGHOUT CONSTRUCTION. THIS INCLUDES CLEANING AND REPLACEMENT OF EXISTING SIGNS SHOULD THESE SIGNS NEED CLEANING, REPAIR OR REPLACEMENT DURING CONSTRUCTION.
14. ALL SIGNS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.

UTILITIES GENERAL NOTES

1. A FIELD VERIFICATION OF HORIZONTAL AND VERTICAL ALIGNMENTS OF EXISTING WATER AND SEWER LINES SHALL BE PERFORMED BY THE CONTRACTOR BEFORE CONSTRUCTION.
2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

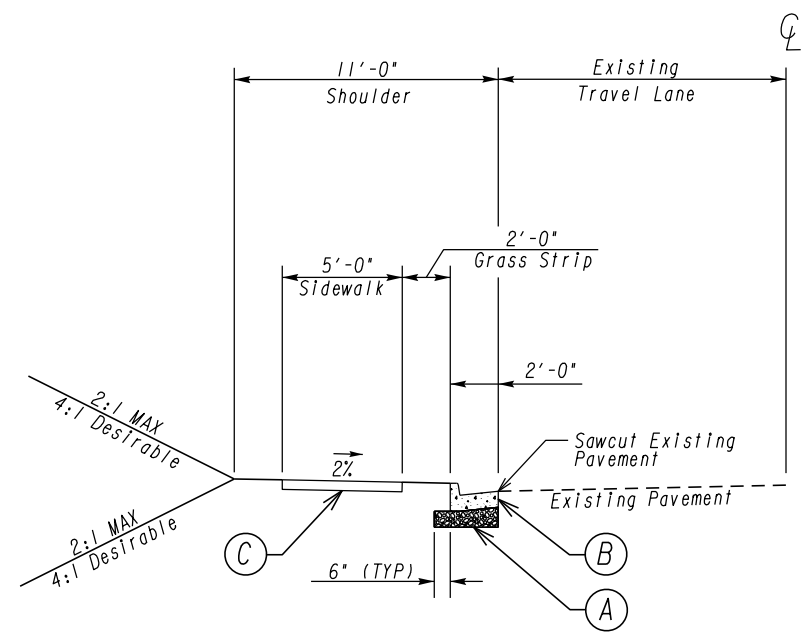


REVISION DATES

GENERAL NOTES

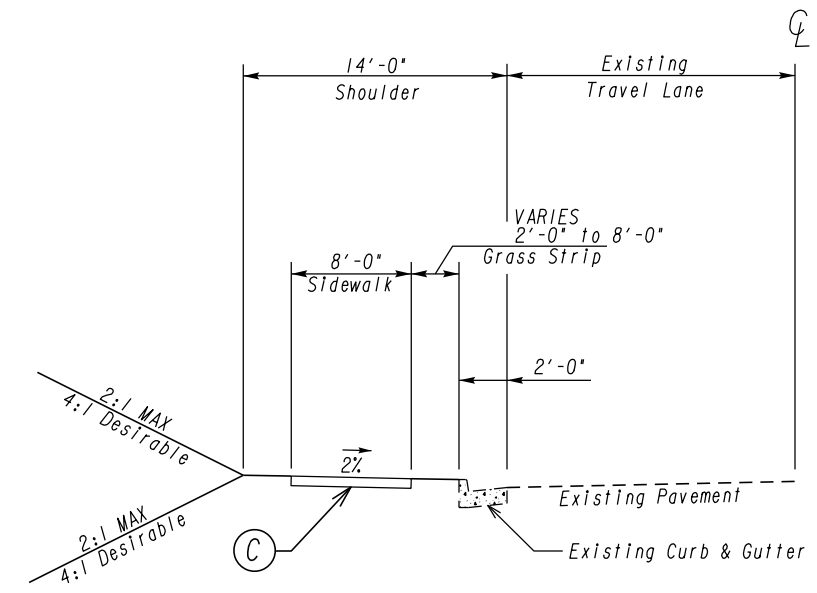
PHASE I-HARDSCRABBLE RD
AT ETRIS RD/CRABAPPLE RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	04-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION 1
STA 100+17.00 TO STA 106+22.00

- Ⓐ 6" GRADED AGGREGATE BASE
- Ⓑ 6"x24" CONC. CURB & GUTTER, GA. STD. 9032-B, TYPE 2
- Ⓒ CONCRETE SIDEWALK, 6"



TYPICAL SECTION 2
STA 106+22.00 TO STA 112+55.70



NOT TO SCALE

REVISION DATES		TYPICAL SECTIONS	
		PHASE I-HARDSCRABBLE RD	
		AT ETRIS RD/CRABAPPLE RD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

TRAFFIC CONTROL	
TOTAL	LUMP SUM

GRADING COMPLETE	
TOTAL	LUMP SUM

CONC SIDEWALK - 6 IN.	
TOTAL	918 SY

CONCRETE CURB & GUTTER 6" X 24" TP 2, STD. 9032-B	
TOTAL	688 LF

SAWED JOINTS IN EXIST PAVEMENT - ASPHALT	
TOTAL	688 LF

GRADED AGGREGATE BASE CRS	
TOTAL	65 TON

SURFACING QUANTITIES					
ITEMS	UNIT	ROADWAY	DRIVEWAYS	TEMPORARY PAVEMENT	TOTALS
RECYCLED ASPH CONC. 9.5MM SUPERPAVE. GP 2 ONLY. INCL BITUM MATL & H LIME	TON		9		9
BITUMINOUS TACK COAT	GAL		7		7
MILL ASPH CONC PVMT. 1 1/2 IN DEPTH	SY		97		97

RESET EXISTING SIGN & POLE	
TOTAL	5 EA

THERMOPLASTIC SOLID TRAFFIC STRIPE		
DESCRIPTION	UNIT	QUANTITY
5" SOLID WHITE	LF	598

STORMWATER		
DESCRIPTION	UNIT	QUANTITY
STORM DRAIN PIPE 18", H 1-10	LF	54
UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	LF	326
MULCH	CY	14.5
SOD	SY	79
CONC SPILLWAY, TP 4	EA	1
STN DUMPED RIP RAP, TP 3, 18 IN	SY	16
DRAIN INLET, 18 IN	EA	1
BIORETENTION AREA	EA	1

CONSTRUCT & REMOVE INLET SEDIMENT TRAP	
	1 EA

MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C	
	698 LF

MAINTENANCE OF INLET SEDIMENT TRAP	
	1 EA

TEMPORARY SILT FENCE TYPE C	
	1316 LF

SOD	
	268 SY

NOTE: LOCATION TO BE DETERMINED BY ENGINEER.

GRASSING			AGR LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	MULCH
ITEM	UNIT	QUANTITY	TON	TON	LB	TON
PERMANENT GRASSING	ACRE	1	3.5	0	50	3
TEMPORARY GRASSING	ACRE	0.5	1.5	1	0	1.5
TOTAL			5	1	50	4.5

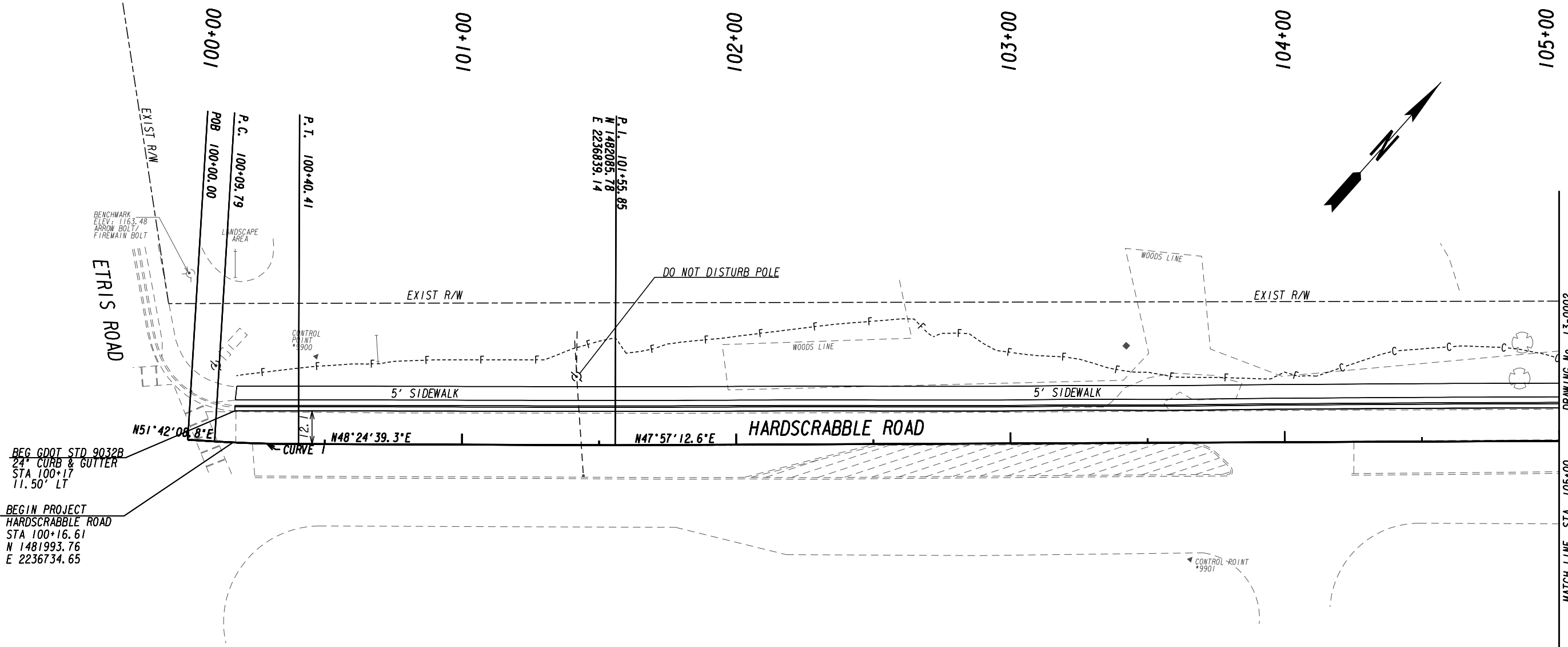
*APPROXIMATELY 1 ACRES OF GRASSING WILL BE REQUIRED (FOR ESTIMATING PURPOSES ONLY). ACRES COMPUTED FROM GRASSING DETAIL DIMENSIONS.

EROSION CONTROL MATS	
	93 SY

LANDSCAPING STONES	
	9 SY



REVISION DATES		SUMMARY QUANTITIES	
		PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	06-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



BEG GDOT STD 9032B
24" CURB & GUTTER
STA 100+17
11.50' LT

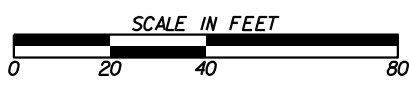
BEGIN PROJECT
HARDSCRABBLE ROAD
STA 100+16.61
N 1481993.76
E 2236734.65

Curve* 1
PI Sta* 100+25.10
N* 1481998.99
E* 2236741.34
DELTA* 03°17'29.5" (LT)
D* 10°44'58.84"
T* 15.31
L* 30.62
R* 533.00
E* 0.22

CONTROL DATA				
NO.	DESC.	NORTHING	EASTING	ELEVATION
BM	---	1482029.0900	2236681.5407	1163.50
9900	---	1482037.5771	2236736.3353	1160.60
9901	---	1482194.7681	2237023.1699	1154.18
9902	---	1482610.5401	2237453.6415	1142.73
9903	---	1482891.6180	2237788.2336	1136.18

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

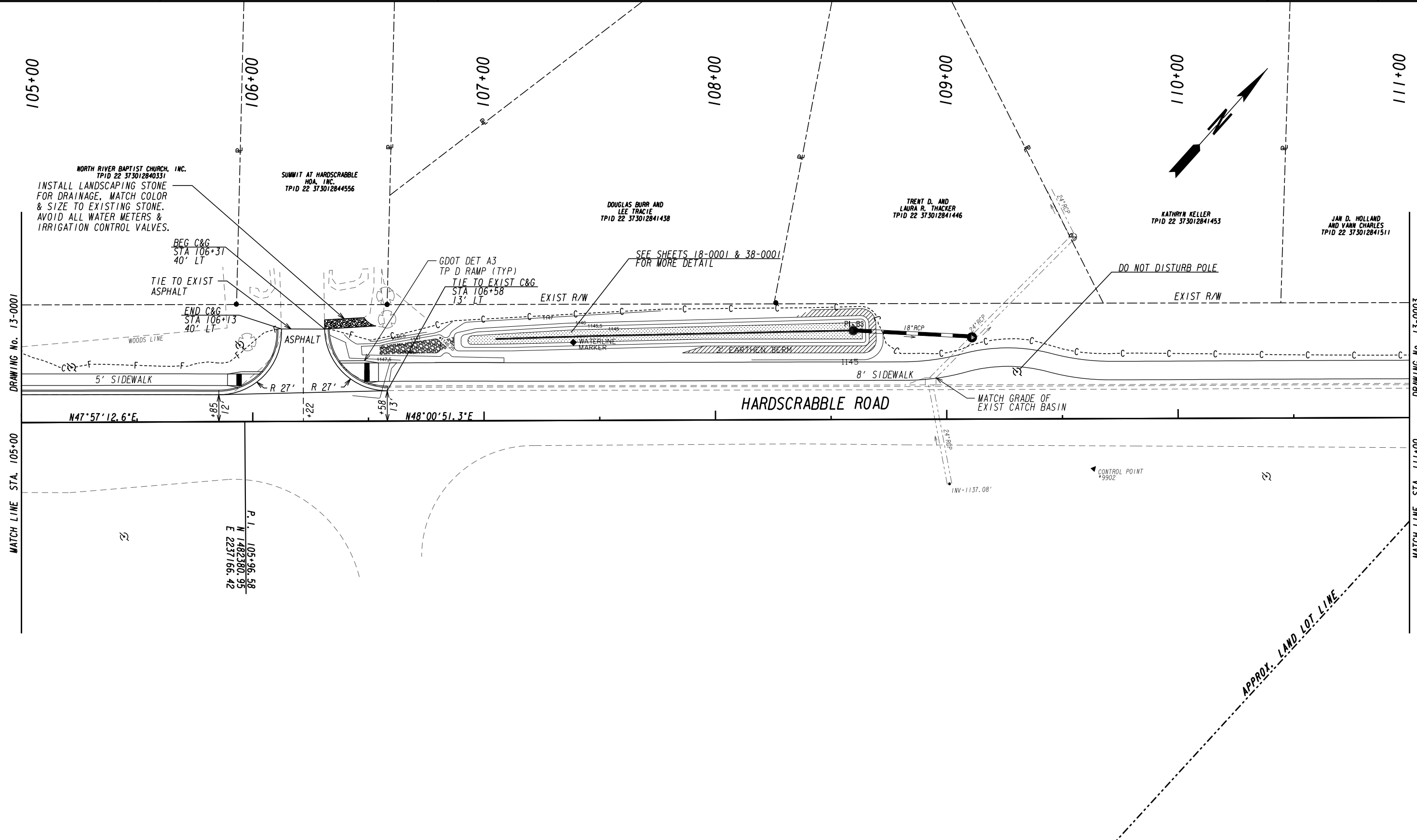
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END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS



REVISION DATES	

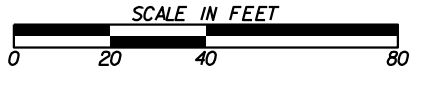
CONSTRUCTION PLAN
PHASE I-HARDSCRABBLE RD
AT ETRIS RD/CRABAPPLE RD

CHECKED:	DATE:	DRAWING No. 13-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

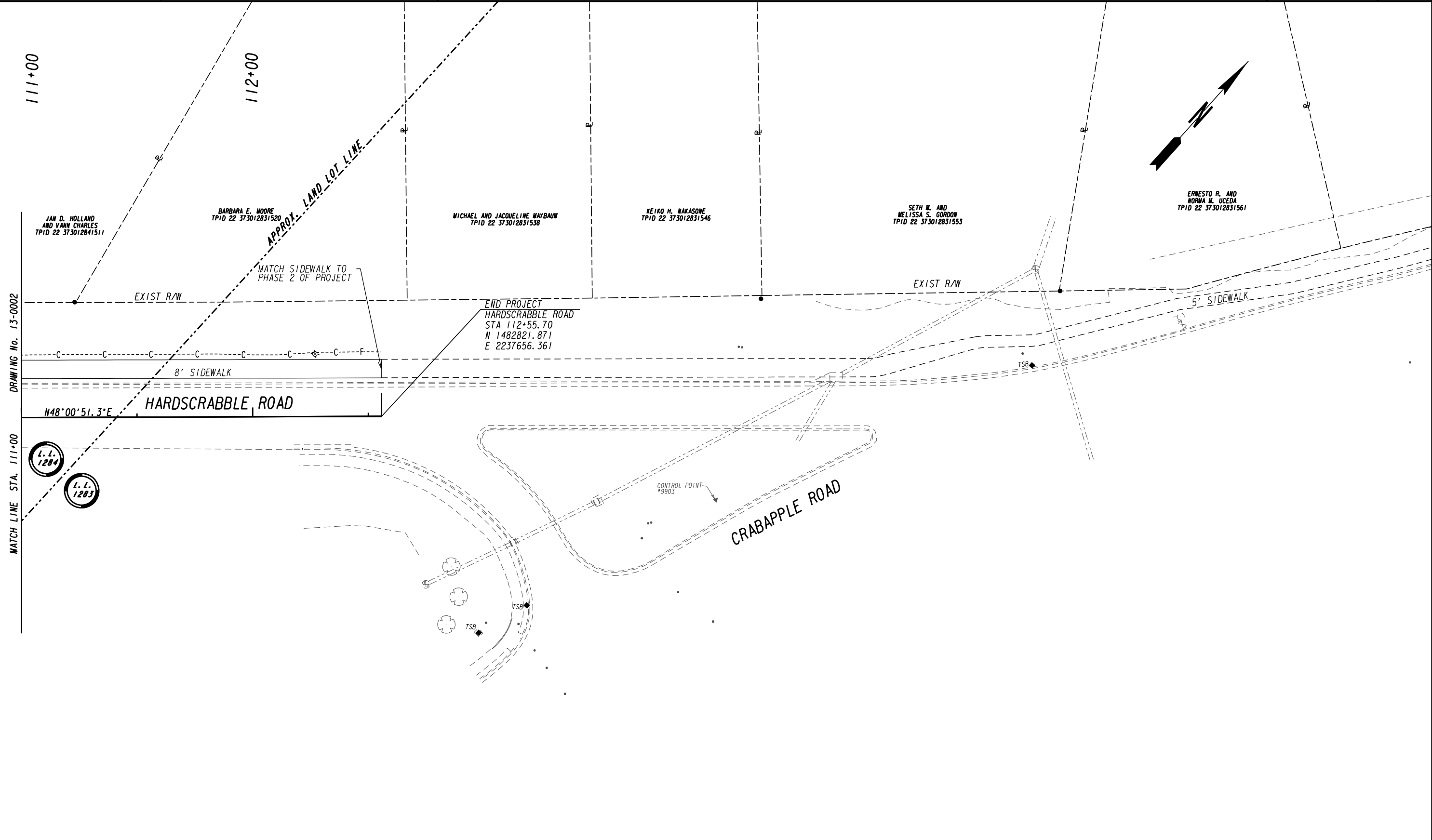
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LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---



REVISION DATES	

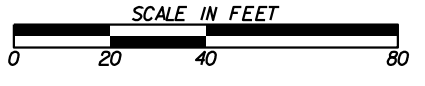
CONSTRUCTION PLAN
PHASE I-HARDSCRABBLE RD
AT ETRIS RD/CRABAPPLE RD

CHECKED:	DATE:	DRAWING No. 13-0002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



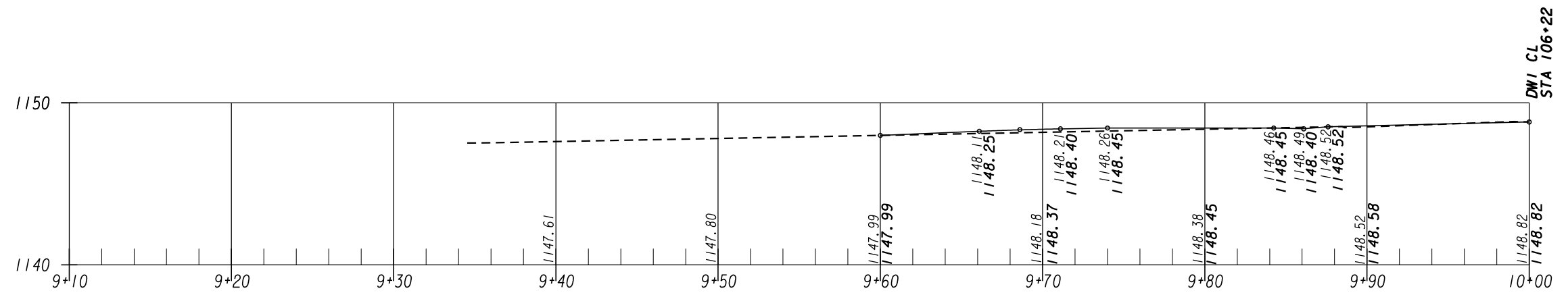
PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	

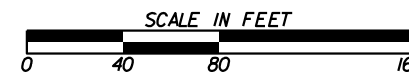


REVISION DATES	

CONSTRUCTION PLAN			
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD			
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BACKCHECKED:	DATE:	13-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



Summit at Hardscrabble driveway

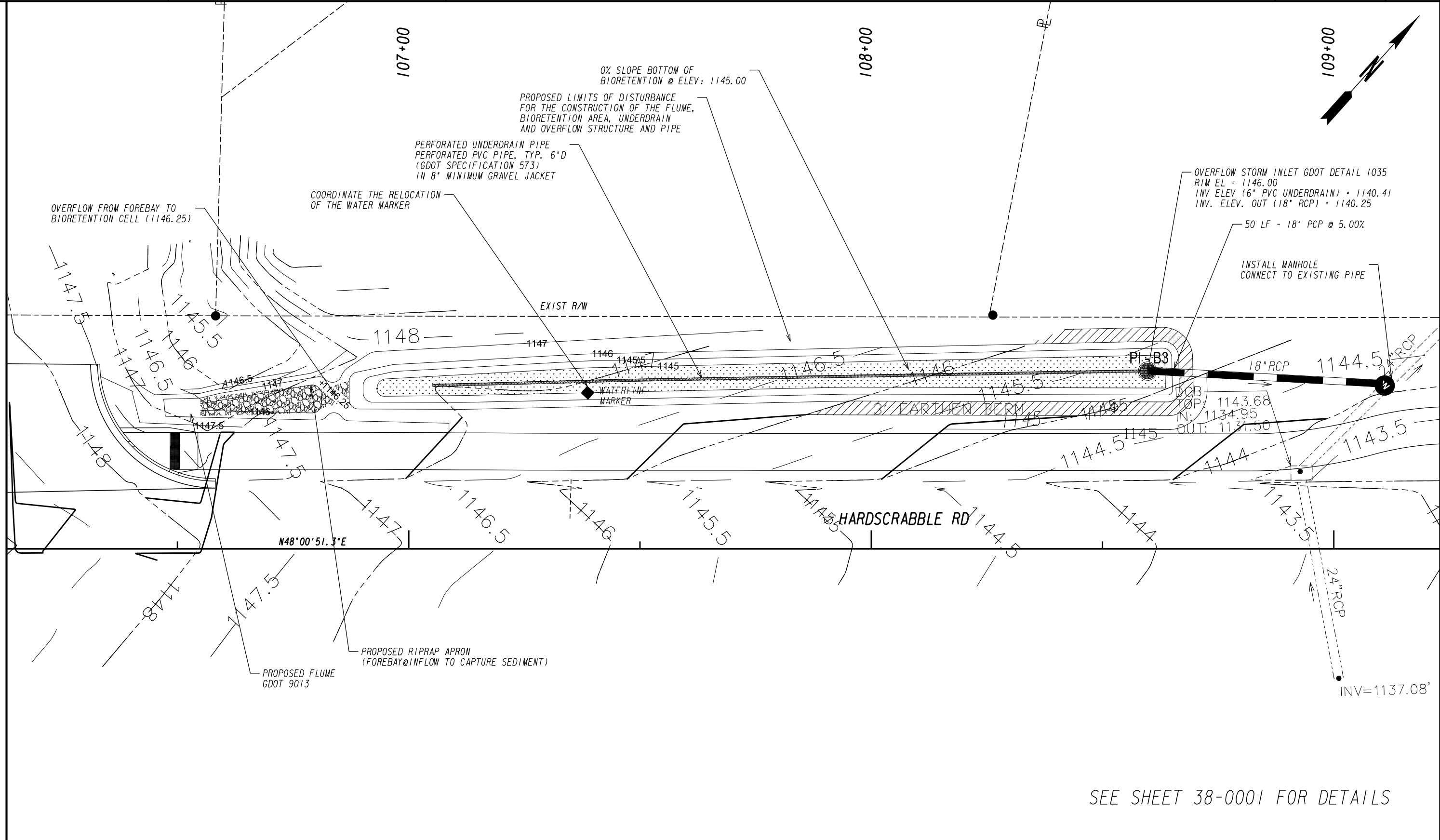


REVISION DATES

No.	DATE	DESCRIPTION

DRIVEWAY PROFILE
 PHASE I-HARDSCRABBLE RD
 AT ETRIS RD/CRABAPPLE RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	17-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

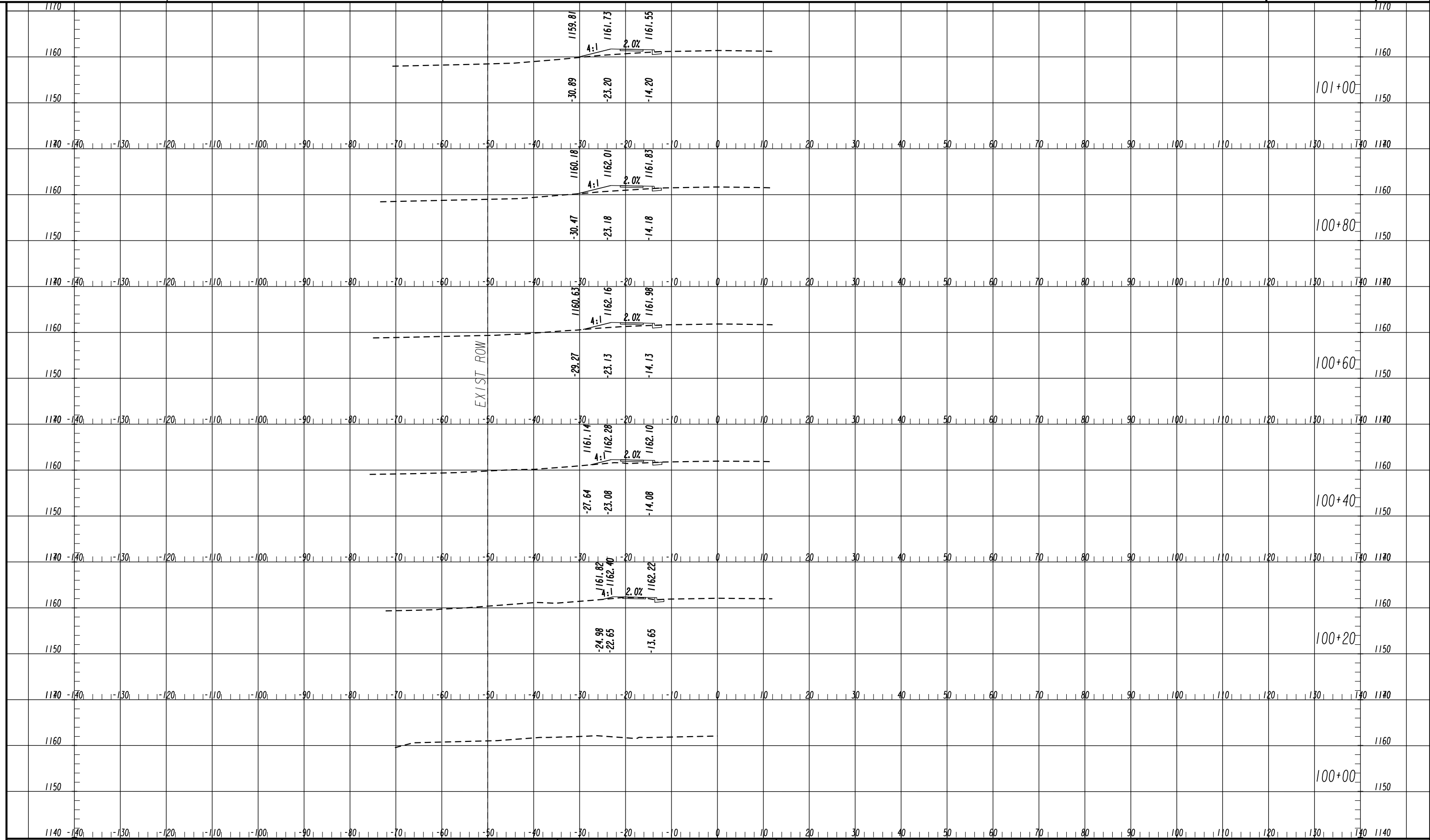


SEE SHEET 38-0001 FOR DETAILS



REVISION DATES

SPECIAL GRADING		DRAWING No.	
PHASE I-HARDSCRABBLE RD		18-0001	
AT ETRIS RD/CRABAPPLE RD			
CHECKED:	DATE:		
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		

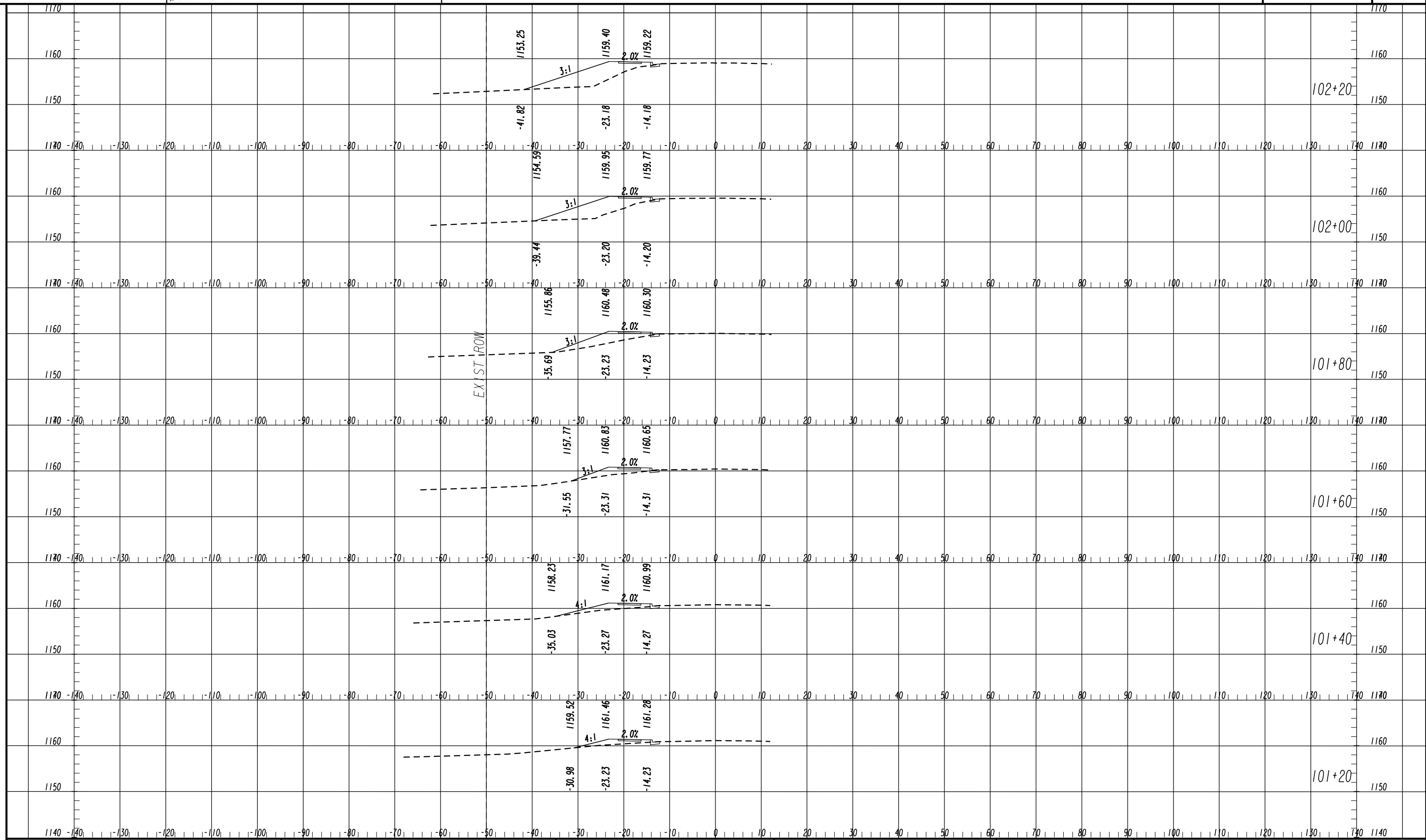


SCALE
 1 INCH = 10 FT VERTICAL
 1 INCH = 10 FT HORIZONTAL

REVISION DATES	

CROSS SECTIONS
 PHASE I-HARDSCRABBLE RD
 AT ETRIS RD/CRABAPPLE RD

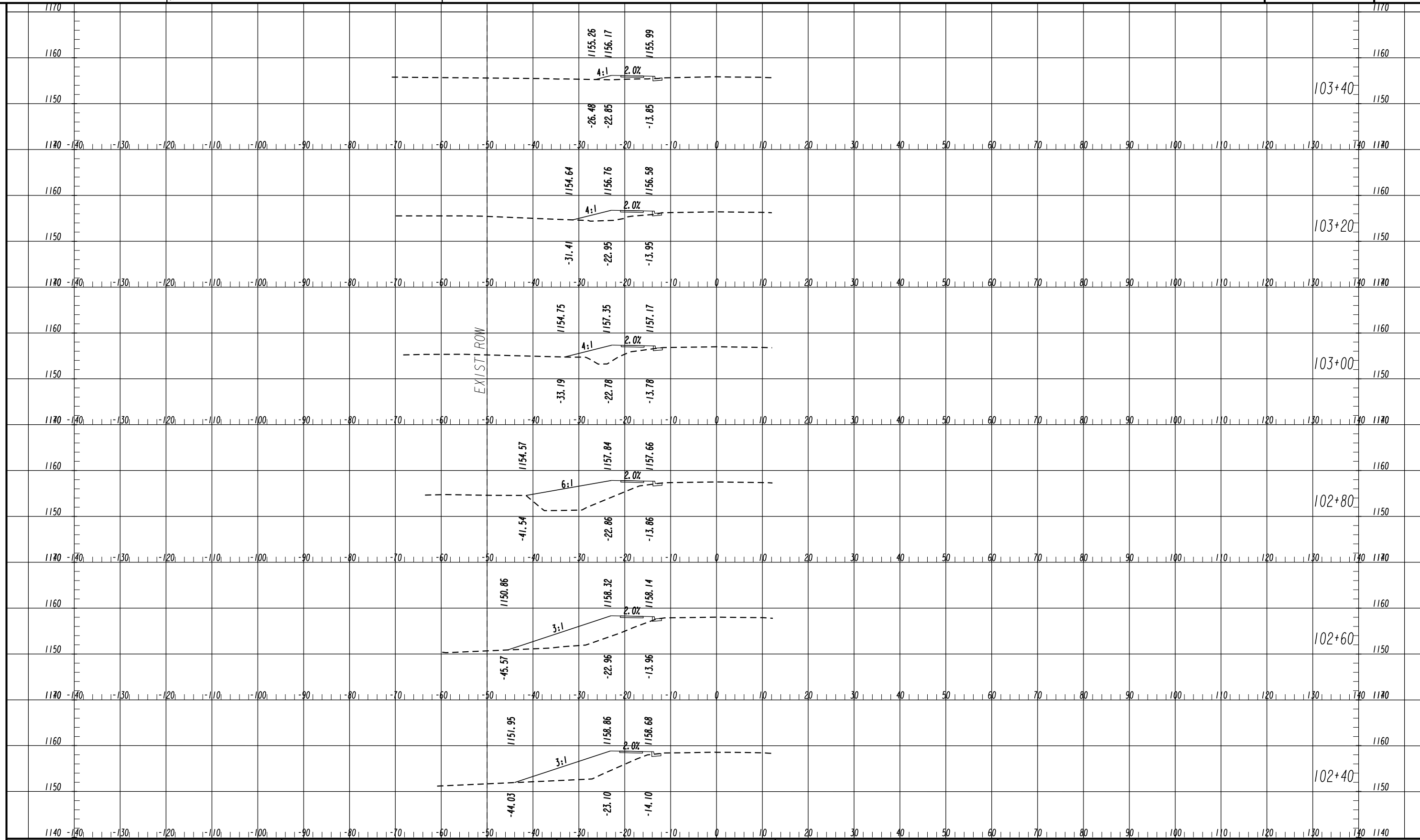
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SCALE
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1 INCH = 10 FT HORIZONTAL

REVISION DATES	

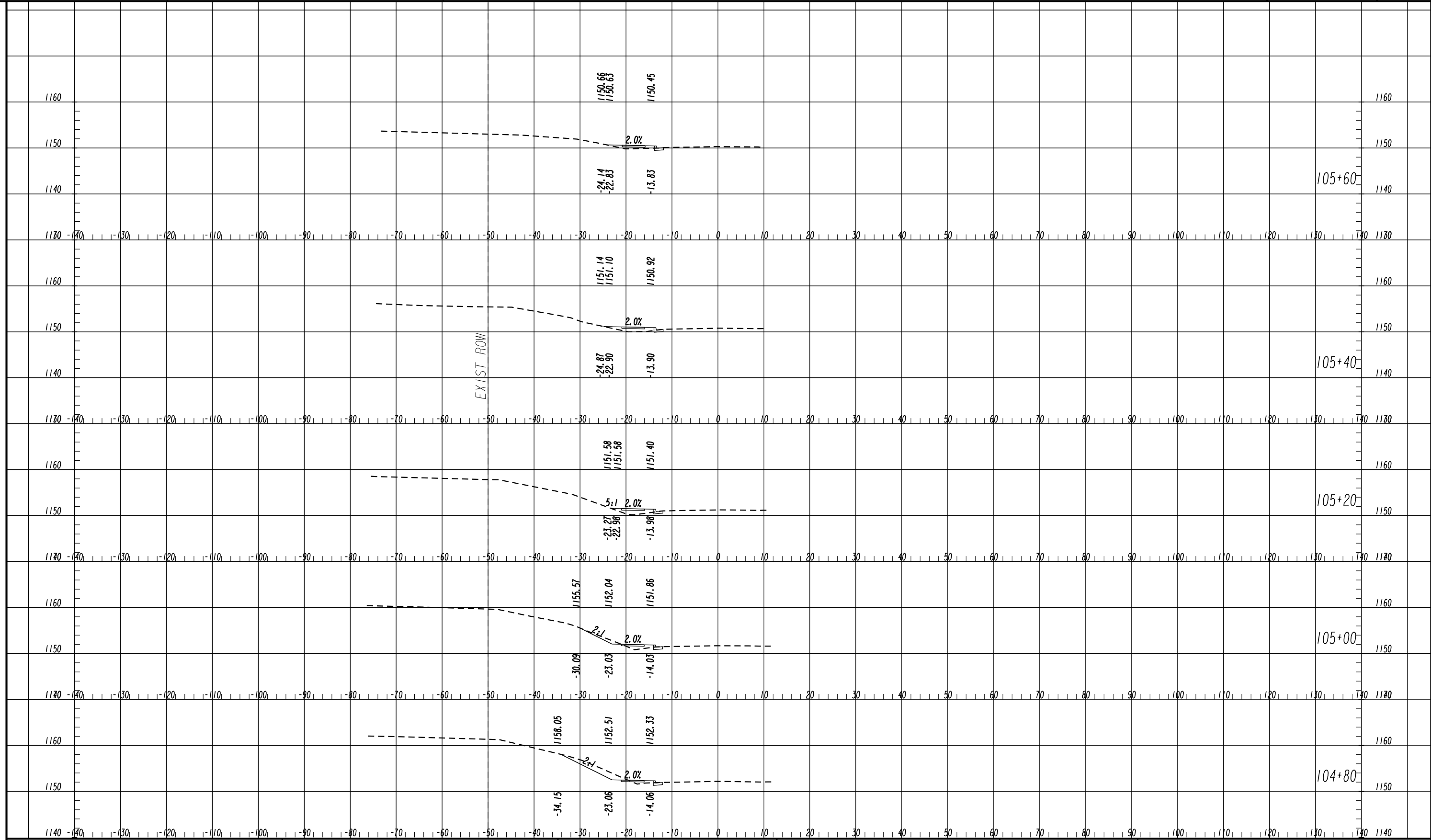
CROSS SECTIONS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE
 1 INCH = 10 FT VERTICAL
 1 INCH = 10 FT HORIZONTAL

REVISION DATES	

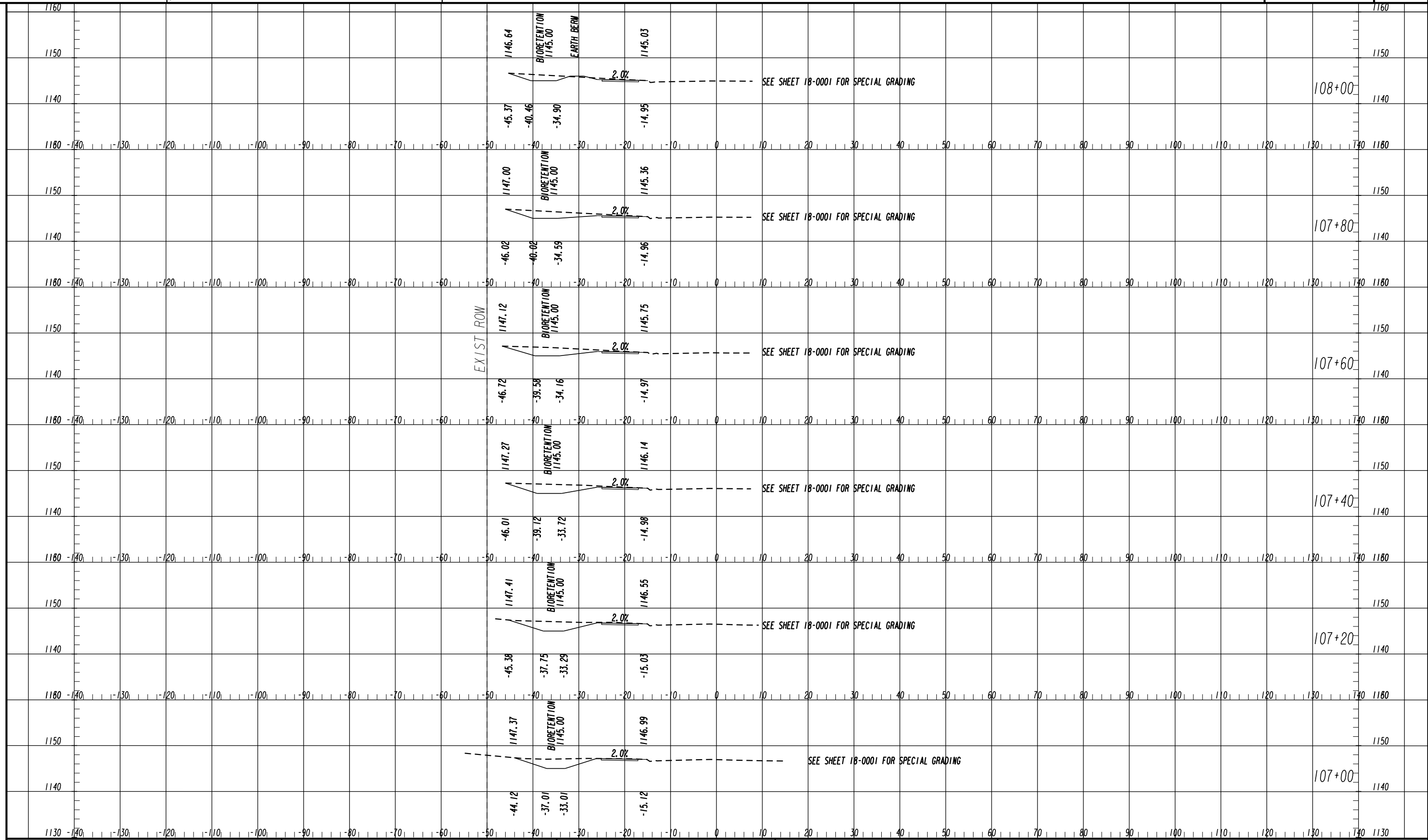
CROSS SECTIONS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
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BACKCHECKED:	DATE:	23-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE
 1 INCH = 10 FT VERTICAL
 1 INCH = 10 FT HORIZONTAL

REVISION DATES	

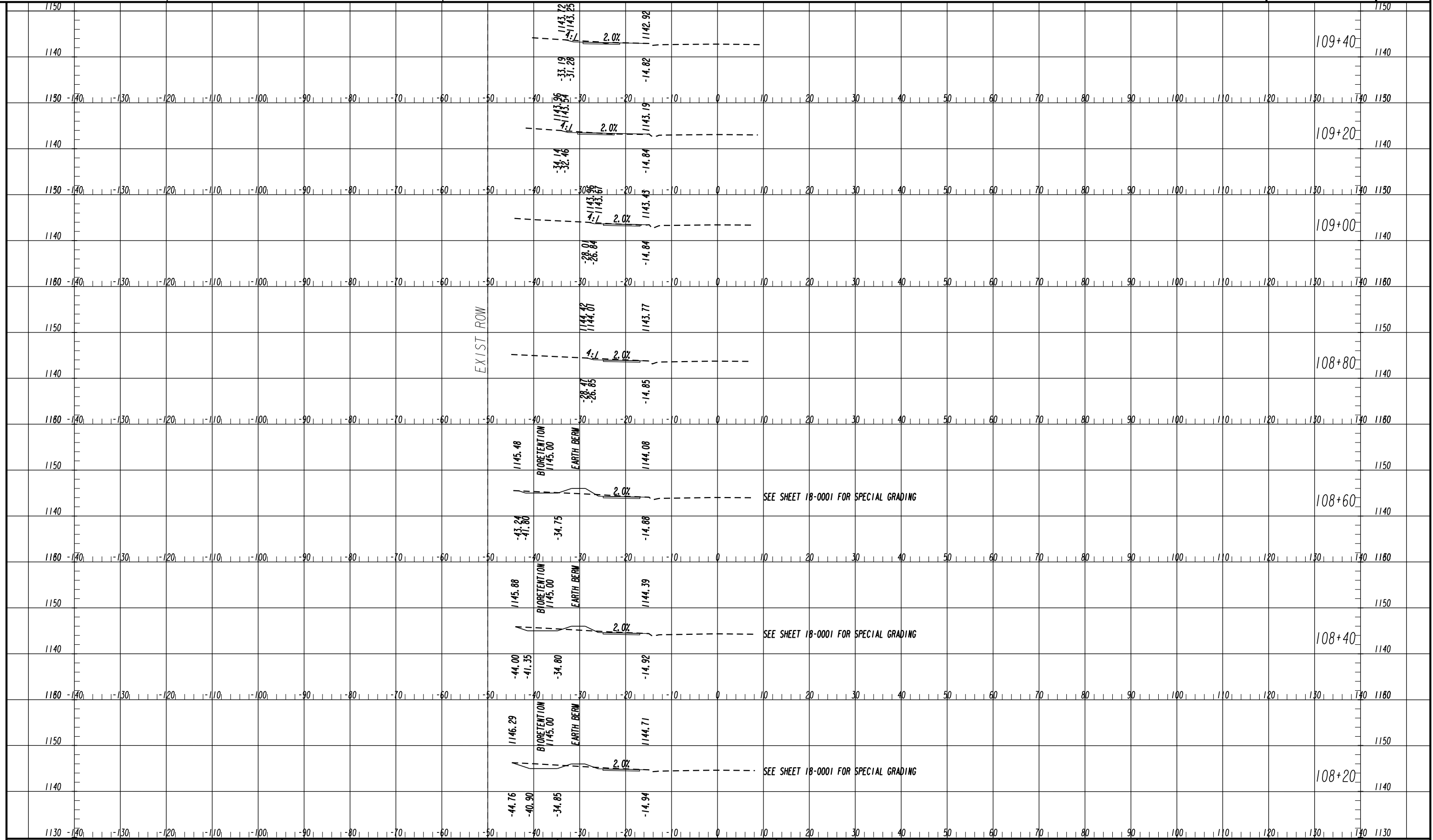
CROSS SECTIONS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
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BACKCHECKED:	DATE:	23-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE
 1 INCH = 10 FT VERTICAL
 1 INCH = 10 FT HORIZONTAL

REVISION DATES	

CROSS SECTIONS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



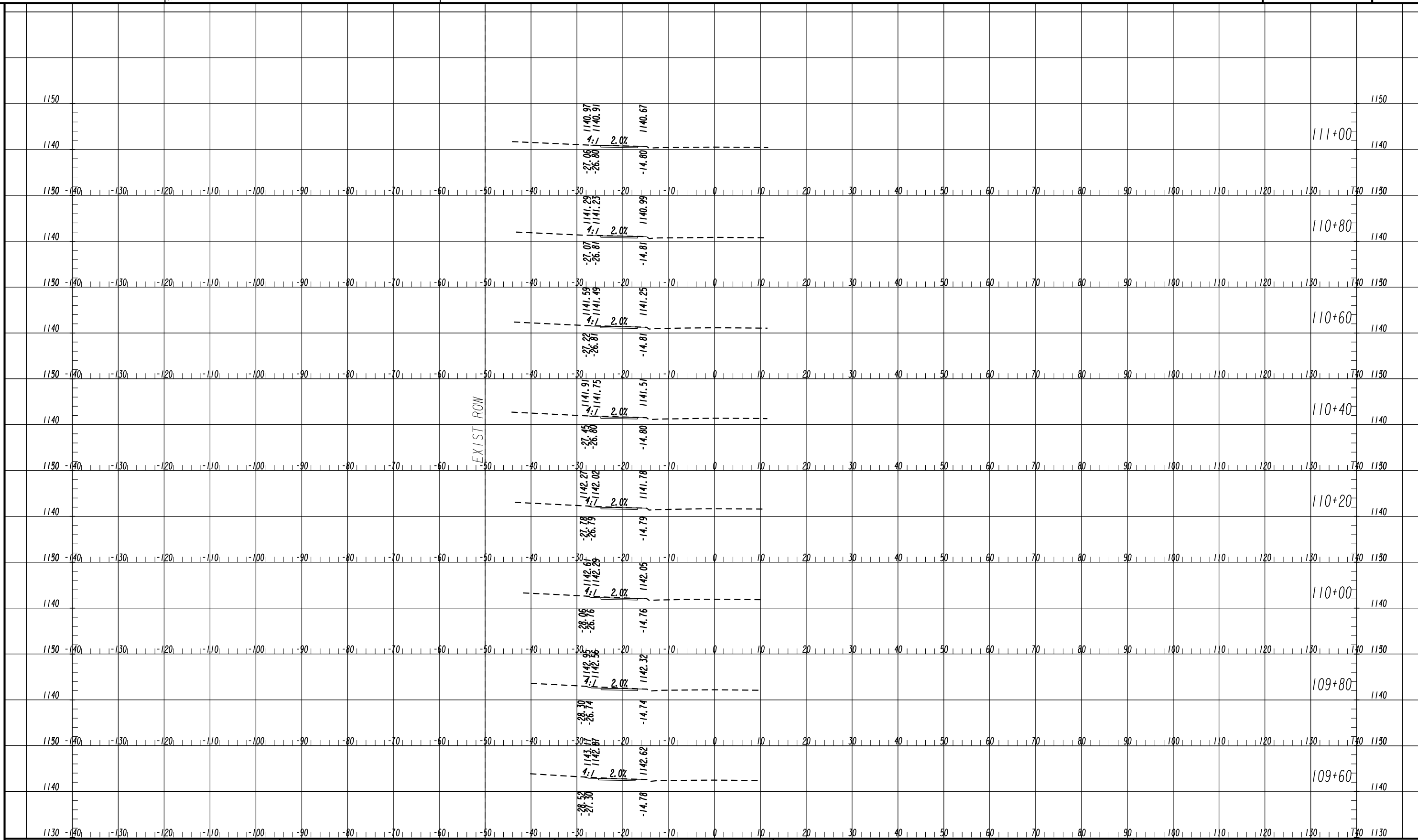
SCALE
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1 INCH = 10 FT HORIZONTAL

REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS
PHASE I-HARDSCRABBLE RD
AT ETRIS RD/CRABAPPLE RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



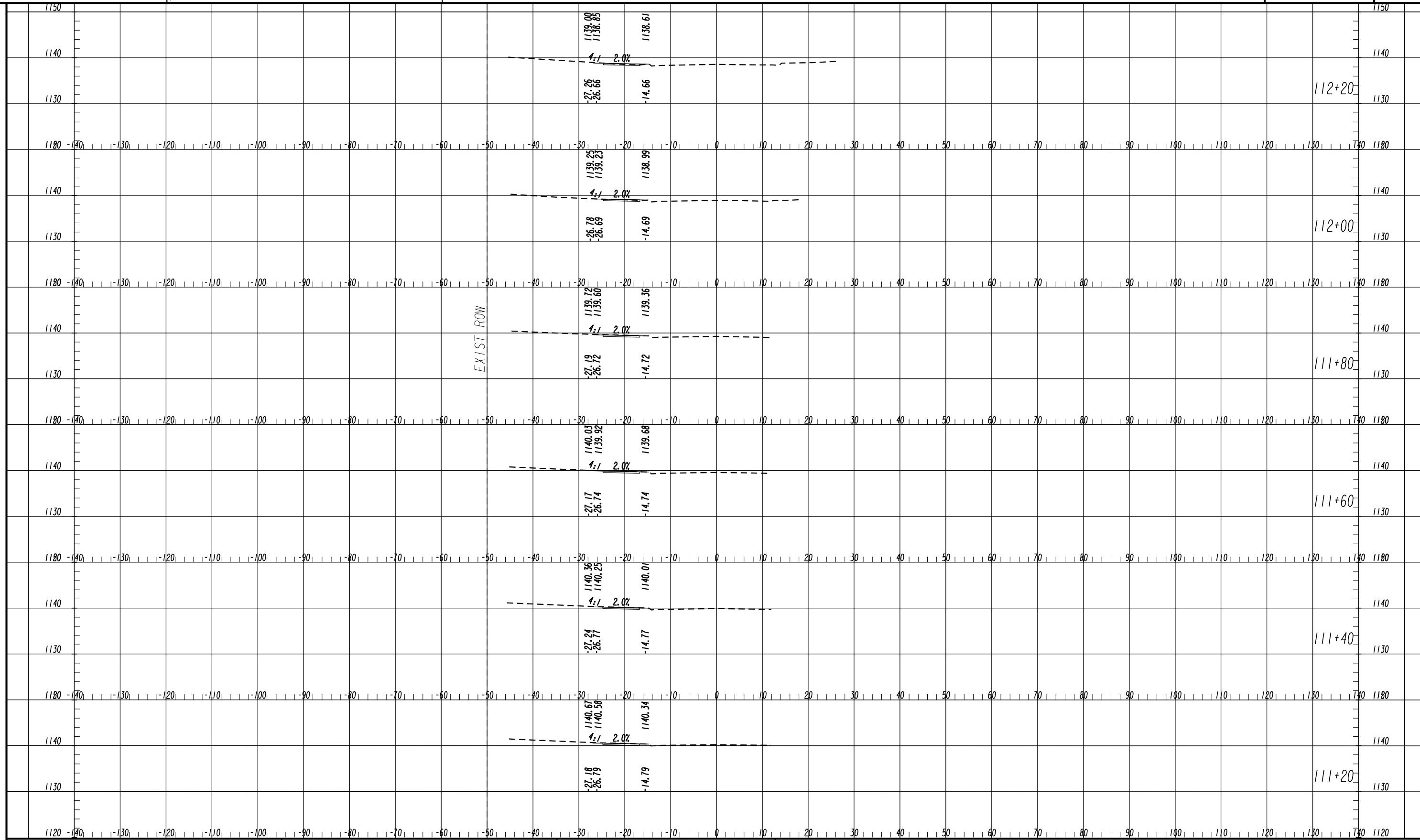
SCALE
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 1 INCH = 10 FT HORIZONTAL

REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS
 PHASE I-HARDSCRABBLE RD
 AT ETRIS RD/CRABAPPLE RD

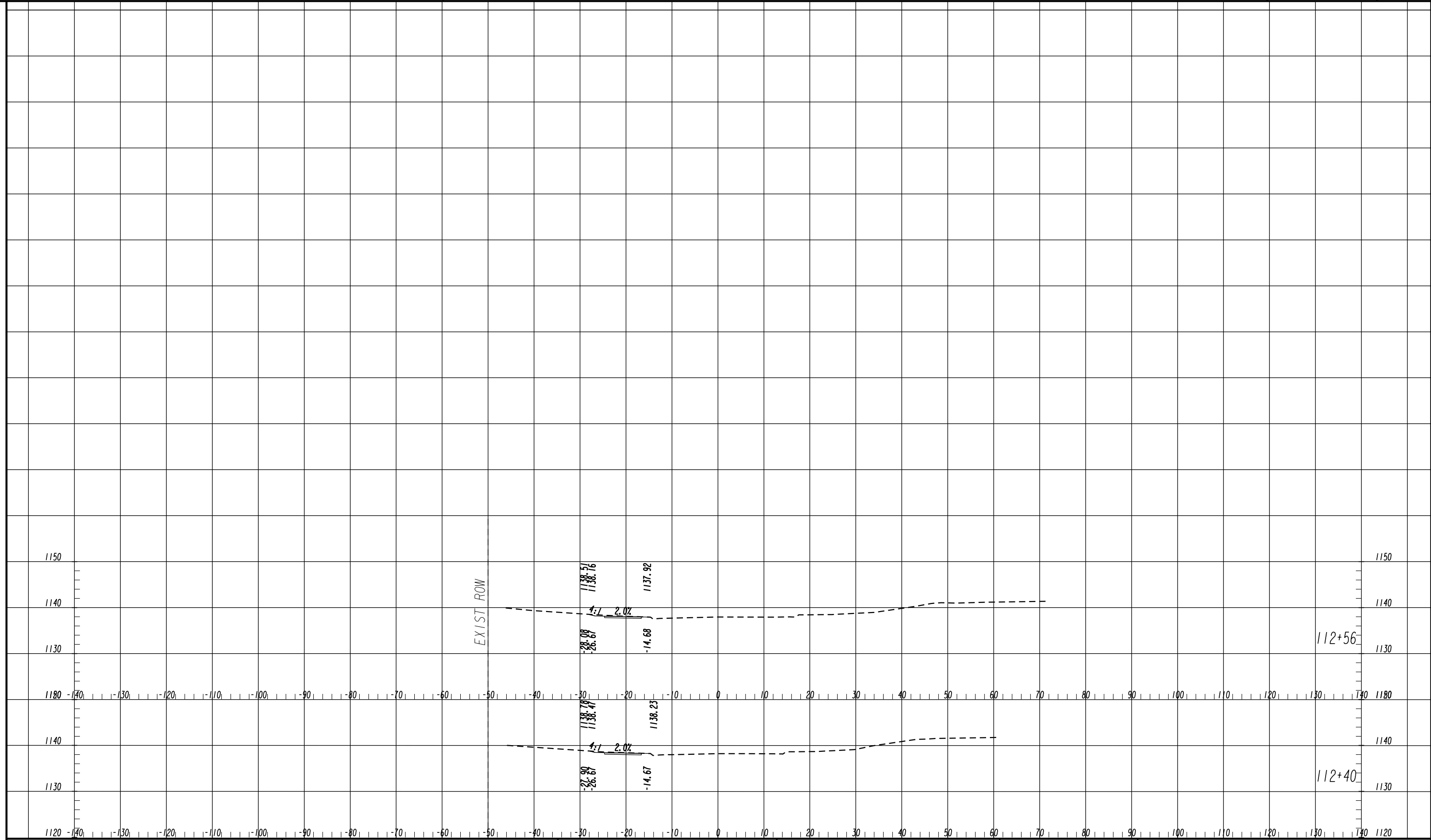
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BACKCHECKED:	DATE:	23-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE
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 1 INCH = 10 FT HORIZONTAL

REVISION DATES	

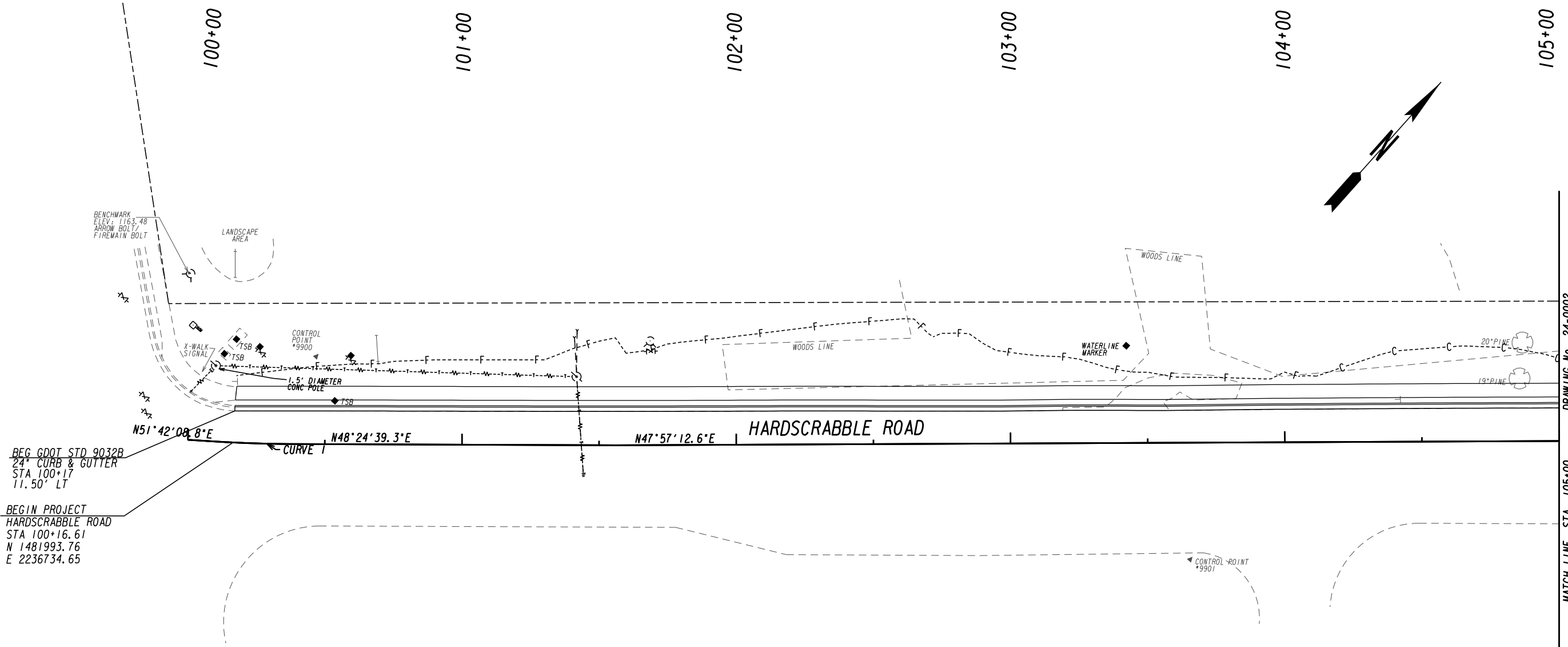
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BACKCHECKED:	DATE:	23-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE
1 INCH = 10 FT VERTICAL
1 INCH = 10 FT HORIZONTAL

REVISION DATES	

CROSS SECTIONS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



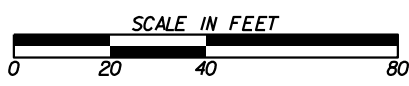
BEG GDOT STD 9032B
24' CURB & GUTTER
STA 100+17
11.50' LT

BEGIN PROJECT
HARDSCRABBLE ROAD
STA 100+16.61
N 1481993.76
E 2236734.65

DRAWING No. 24-0002
MATCH LINE STA. 105+00

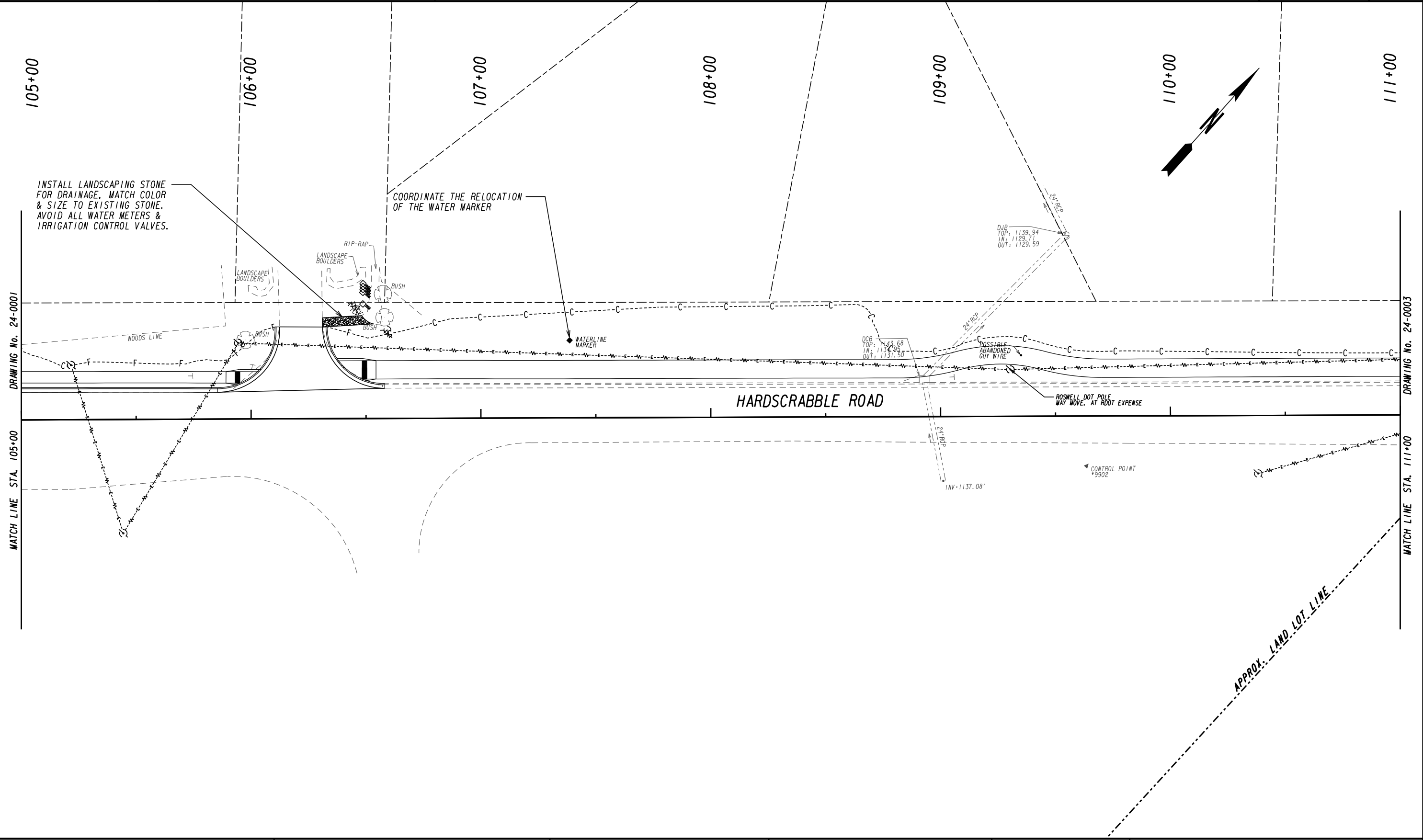
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS



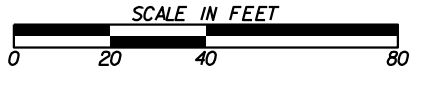
REVISION DATES	

UTILITY PLANS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



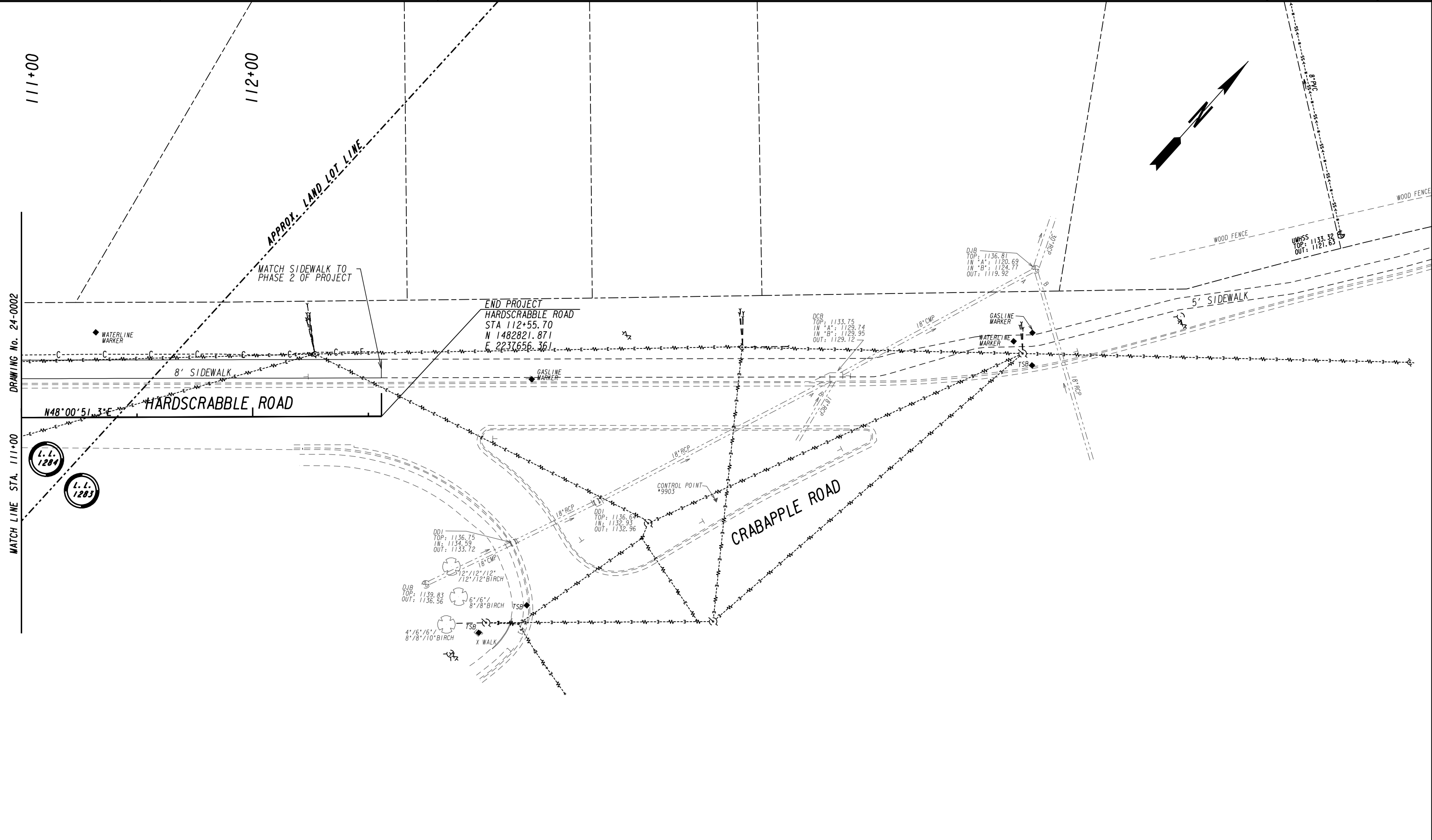
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---



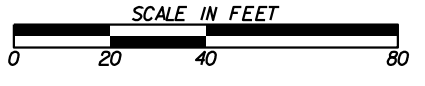
REVISION DATES	

UTILITY PLANS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---



REVISION DATES	

UTILITY PLANS			
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

100+00

101+00

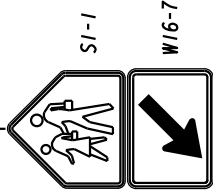
102+00

103+00

104+00

105+00

LANDSCAPE AREA
RESET SIGN AS REQ'D STA 100+17



PEDESTRIAN CROSSING

SCHOOL CROSSING AHEAD

HARDSCRABBLE ROAD

5" SOLID WHITE (TYP)

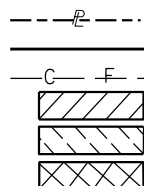
CURVE 1

BEGIN MARKING
HARDSCRABBLE ROAD
STA 100+16.61

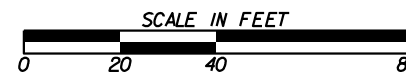
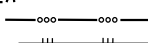
DRAWING No. 26-0002

MATCH LINE STA. 105+00

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

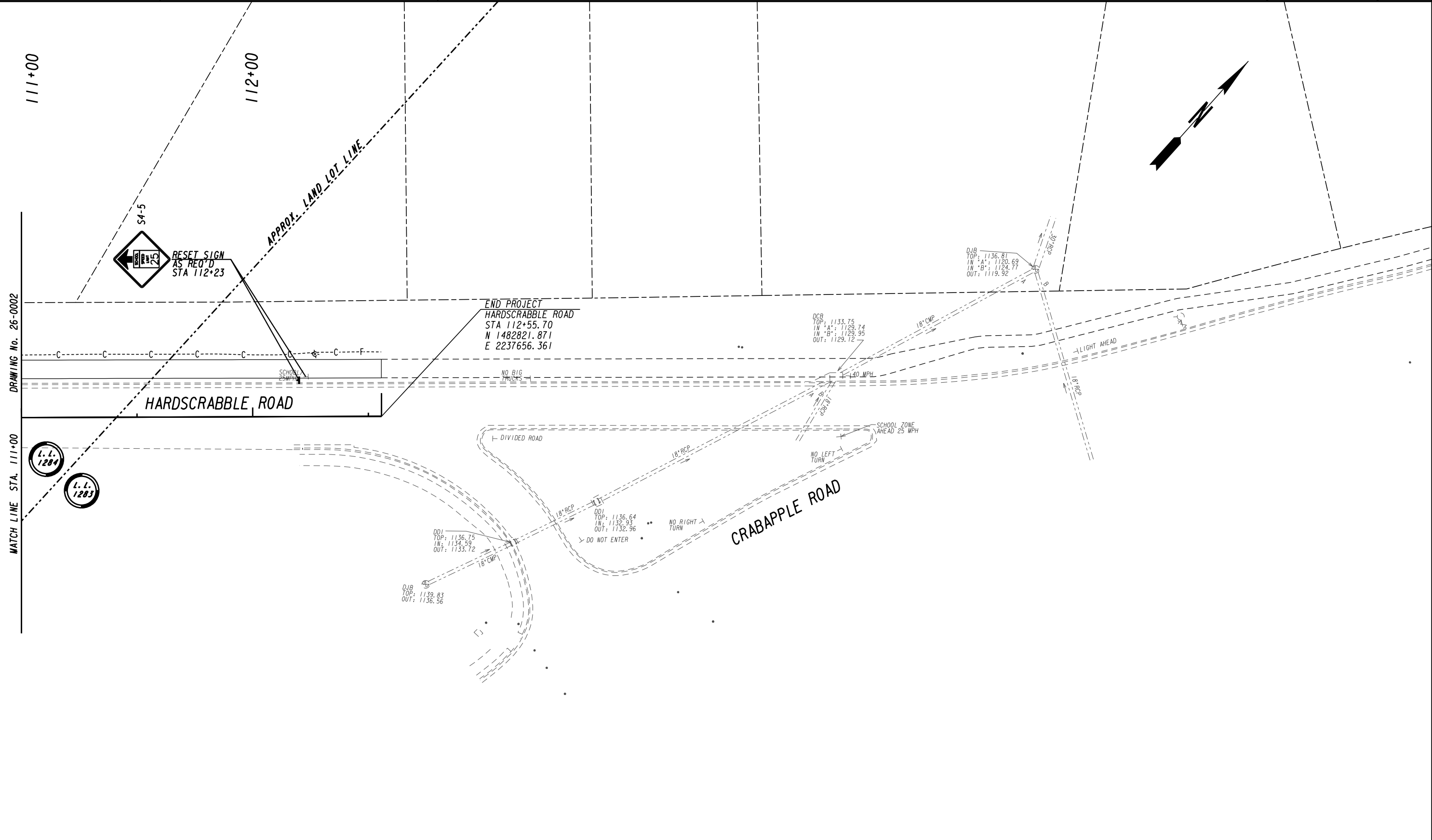


REVISION DATES

NO.	DATE	DESCRIPTION

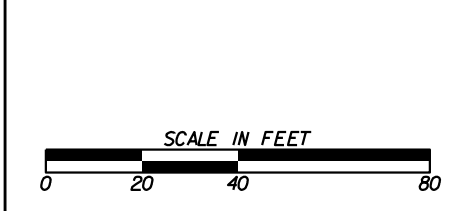
SIGNING AND MARKING PLANS
PHASE I-HARDSCRABBLE RD
AT ETRIS RD/CRABAPPLE RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---o---o---
REQ'D R/W & LIMIT OF ACCESS	--- --- ---

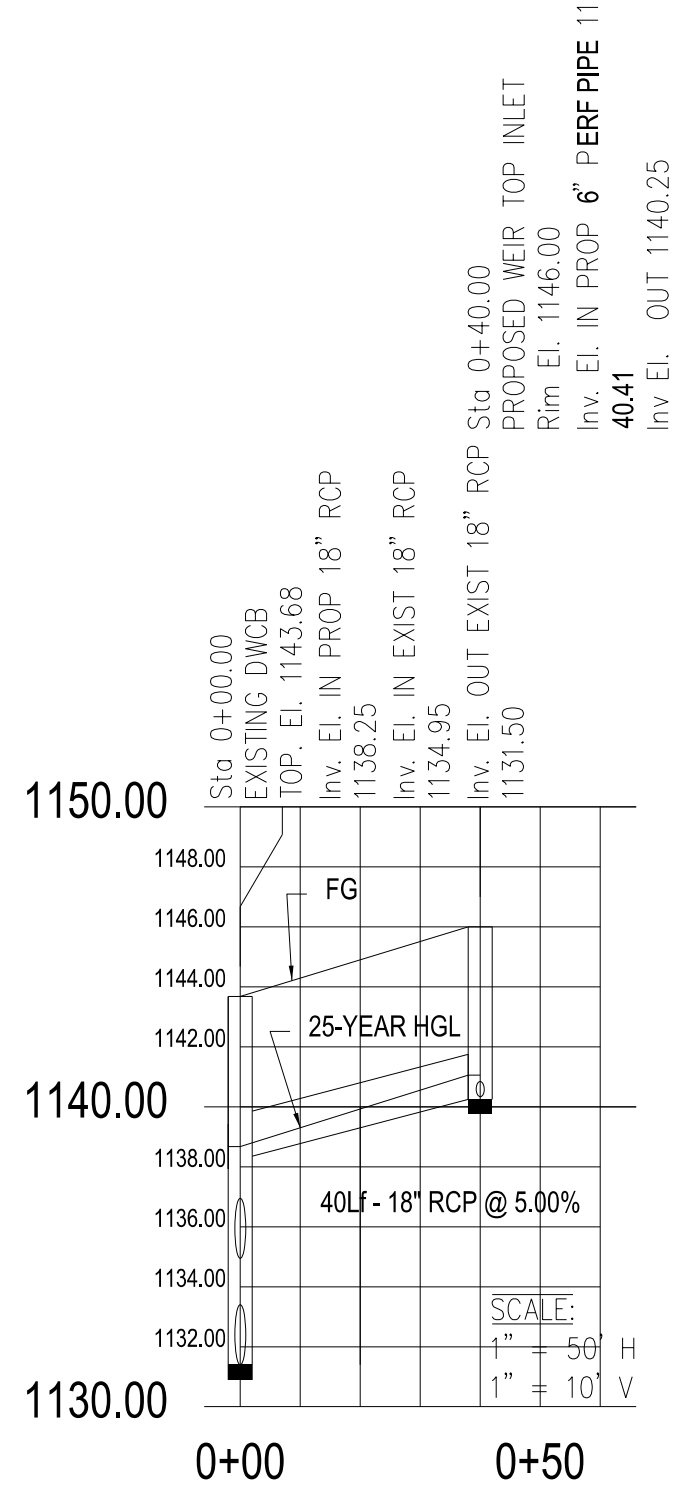
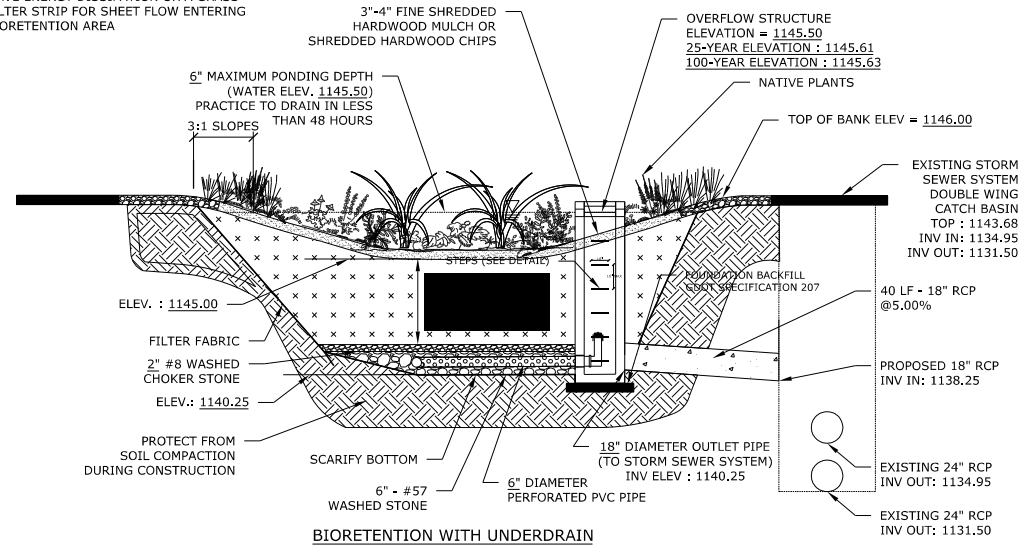


REVISION DATES	

SIGNING AND MARKING PLANS			
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

NOTES TO DESIGNERS:

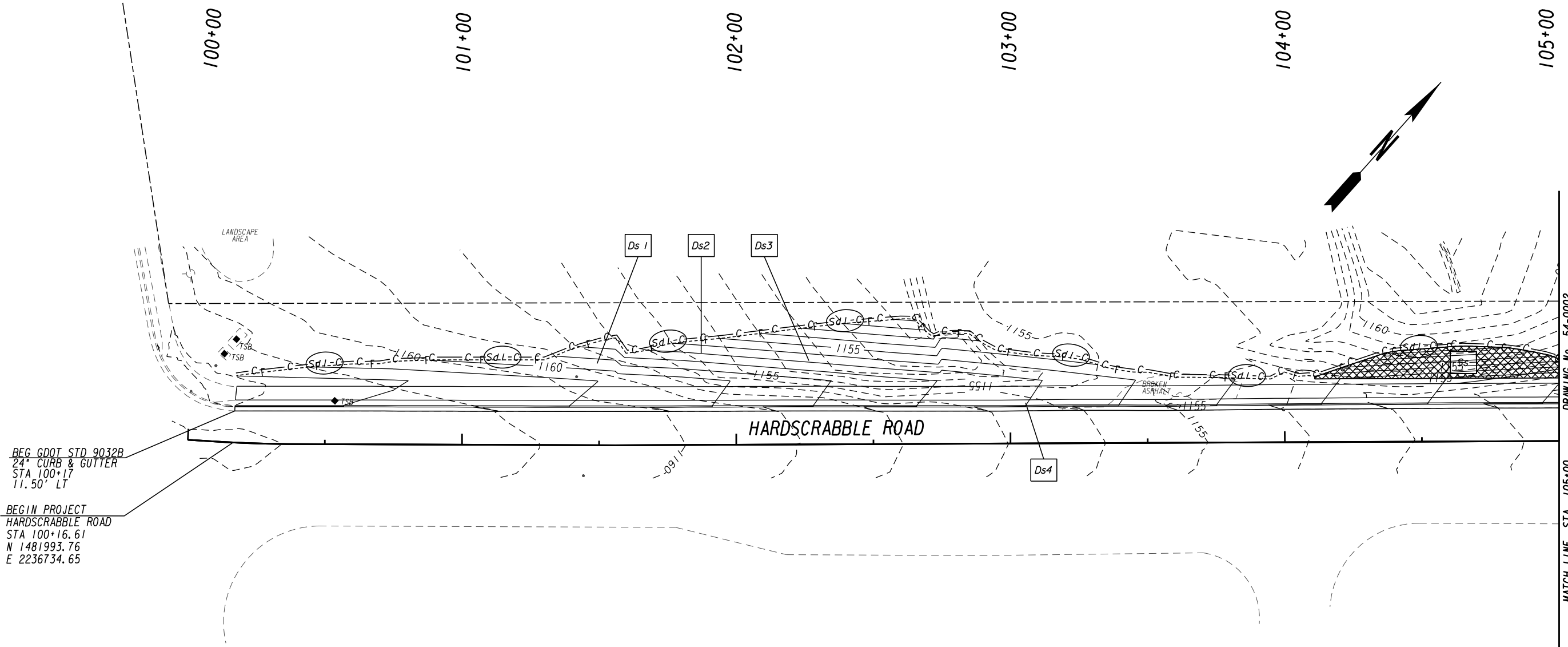
- 1. MAXIMUM 3:1 SIDE SLOPES
- 2. HAVE ENERGY DISSIPATION OR A GRASS FILTER STRIP FOR SHEET FLOW ENTERING BIOTENTATION AREA



Sta 0+40.00
PROPOSED WEIR TOP INLET
Rim El. 1146.00
Inv. El. IN PROP 6\"/>



REVISION DATES		SPECIAL CONSTRUCTION DETAIL	
		PHASE I-HARDSCRABBLE RD	
		AT ETRIS RD/CRABAPPLE RD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



BEG GDOT STD 9032B
24" CURB & GUTTER
STA 100+17
11.50' LT

BEGIN PROJECT
HARDSCRABBLE ROAD
STA 100+16.61
N 1481993.76
E 2236734.65

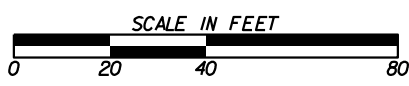
DRAWING No. 54-0002
MATCH LINE STA. 105+00

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

---P---
---C---F---
[Hatched Box]
[Hatched Box]
[Hatched Box]

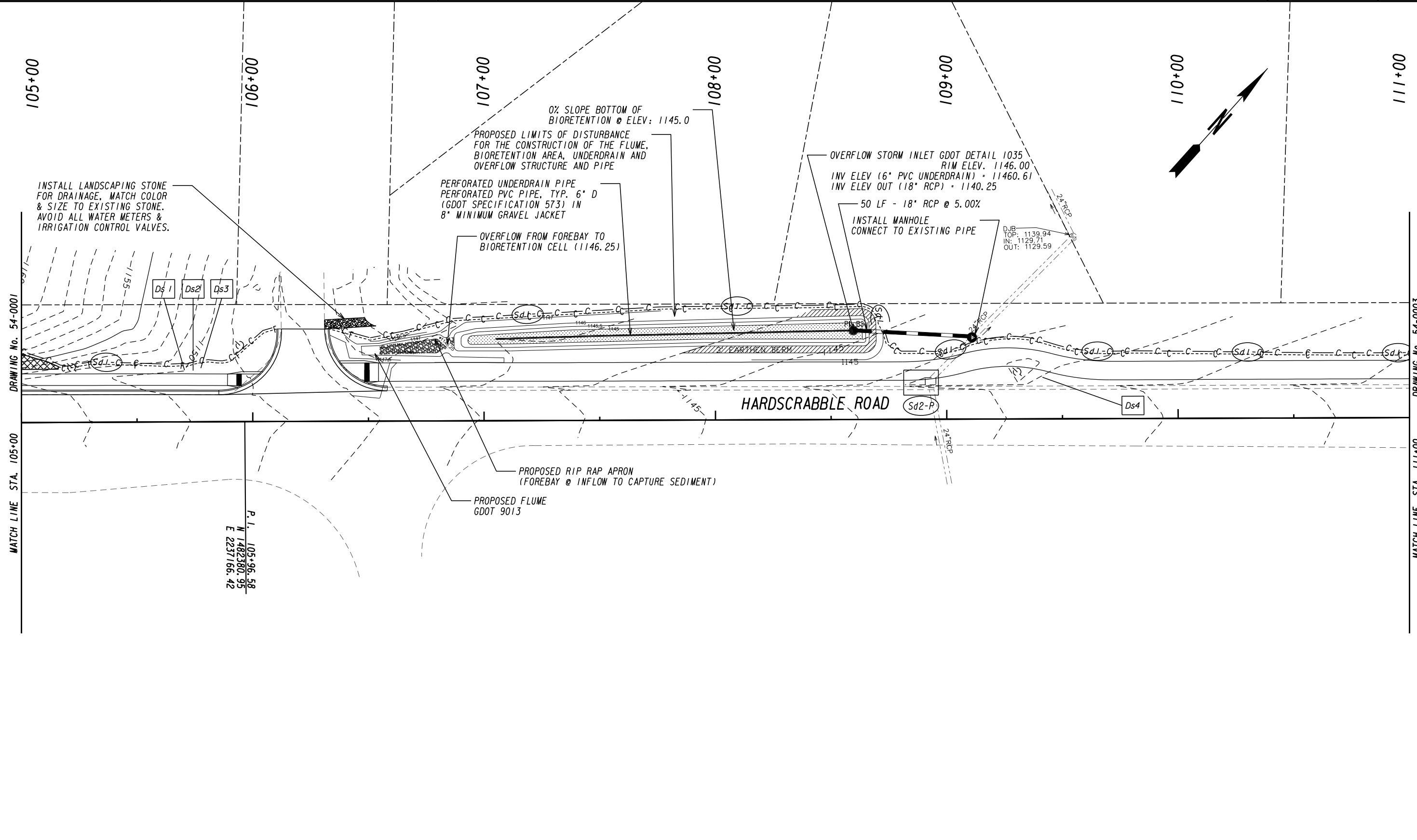
BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

---o---o---
---||---||---



REVISION DATES	

BMP LOCATION DETAILS			
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



INSTALL LANDSCAPING STONE FOR DRAINAGE. MATCH COLOR & SIZE TO EXISTING STONE. AVOID ALL WATER METERS & IRRIGATION CONTROL VALVES.

0% SLOPE BOTTOM OF BIORETENTION @ ELEV: 1145.0
PROPOSED LIMITS OF DISTURBANCE FOR THE CONSTRUCTION OF THE FLUME, BIORETENTION AREA, UNDERDRAIN AND OVERFLOW STRUCTURE AND PIPE

PERFORATED UNDERDRAIN PIPE PERFORATED PVC PIPE, TYP. 6" D (GDOT SPECIFICATION 573) IN 8" MINIMUM GRAVEL JACKET

OVERFLOW FROM FOREBAY TO BIORETENTION CELL (1146.25)

OVERFLOW STORM INLET GDOT DETAIL 1035 RIM ELEV. 1146.00
INV ELEV (6" PVC UNDERDRAIN) = 1146.61
INV ELEV OUT (18" RCP) = 1140.25

50 LF - 18" RCP @ 5.00%

INSTALL MANHOLE CONNECT TO EXISTING PIPE

DJB
TOP: 1139.94
IN: 1129.71
OUT: 1129.59

PROPOSED RIP RAP APRON (FOREBAY @ INFLOW TO CAPTURE SEDIMENT)

PROPOSED FLUME GDOT 9013

HARDSCRABBLE ROAD

DRAWING No. 54-0001

MATCH LINE STA. 105+00

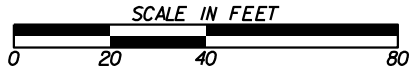
DRAWING No. 54-0003

MATCH LINE STA. 111+00

P.I.
N 105+96.58
E 2237166.42

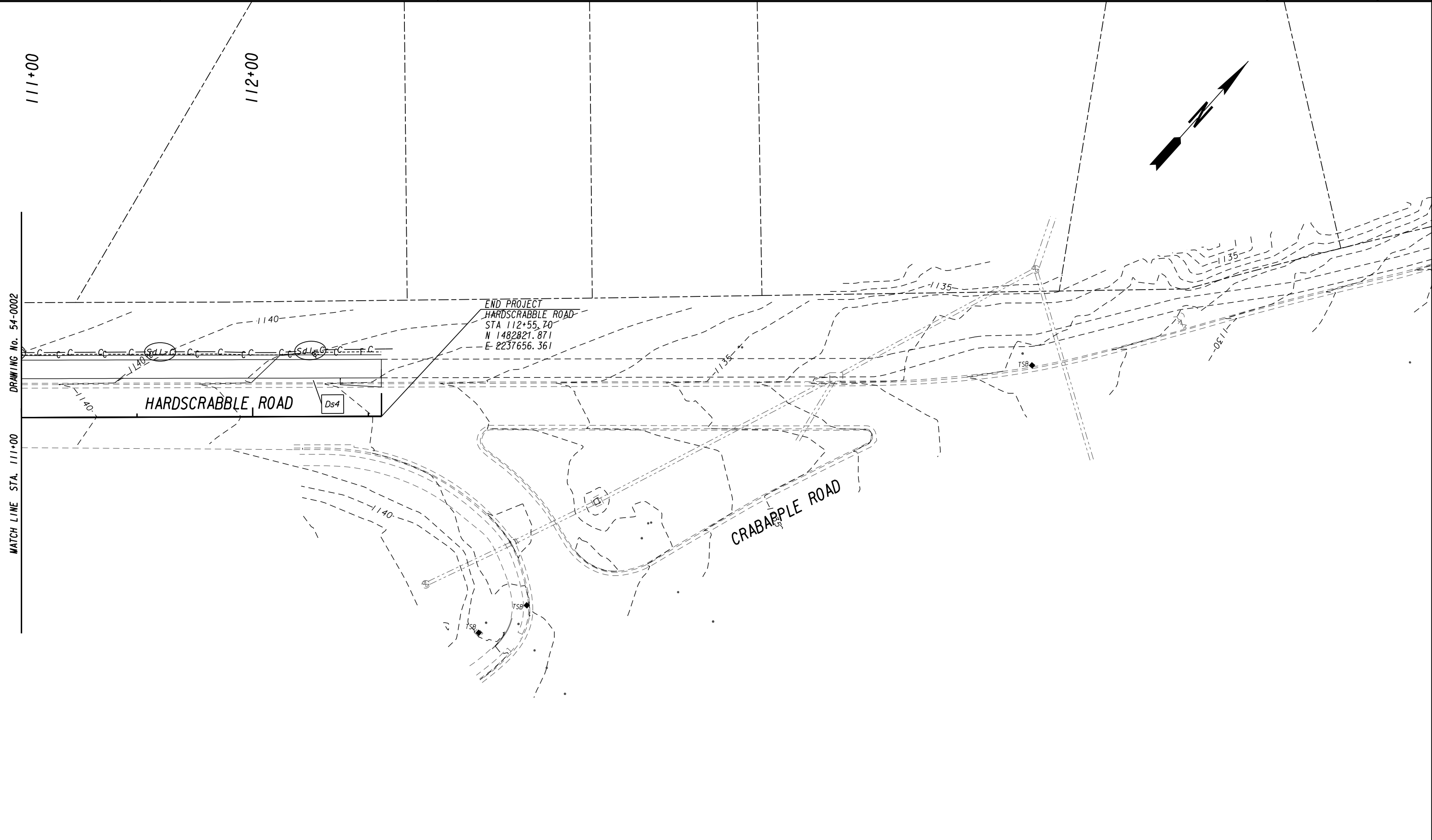
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---



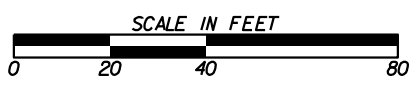
REVISION DATES	

BMP LOCATION DETAILS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---p--- BEGIN LIMIT OF ACCESS.....BLA
 --- END LIMIT OF ACCESS.....ELA
 ---C---F--- LIMIT OF ACCESS
 --- REQ'D R/W & LIMIT OF ACCESS



REVISION DATES	

BMP LOCATION DETAILS		
PHASE I-HARDSCRABBLE RD AT ETRIS RD/CRABAPPLE RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	