

west virginia department of environmental protection

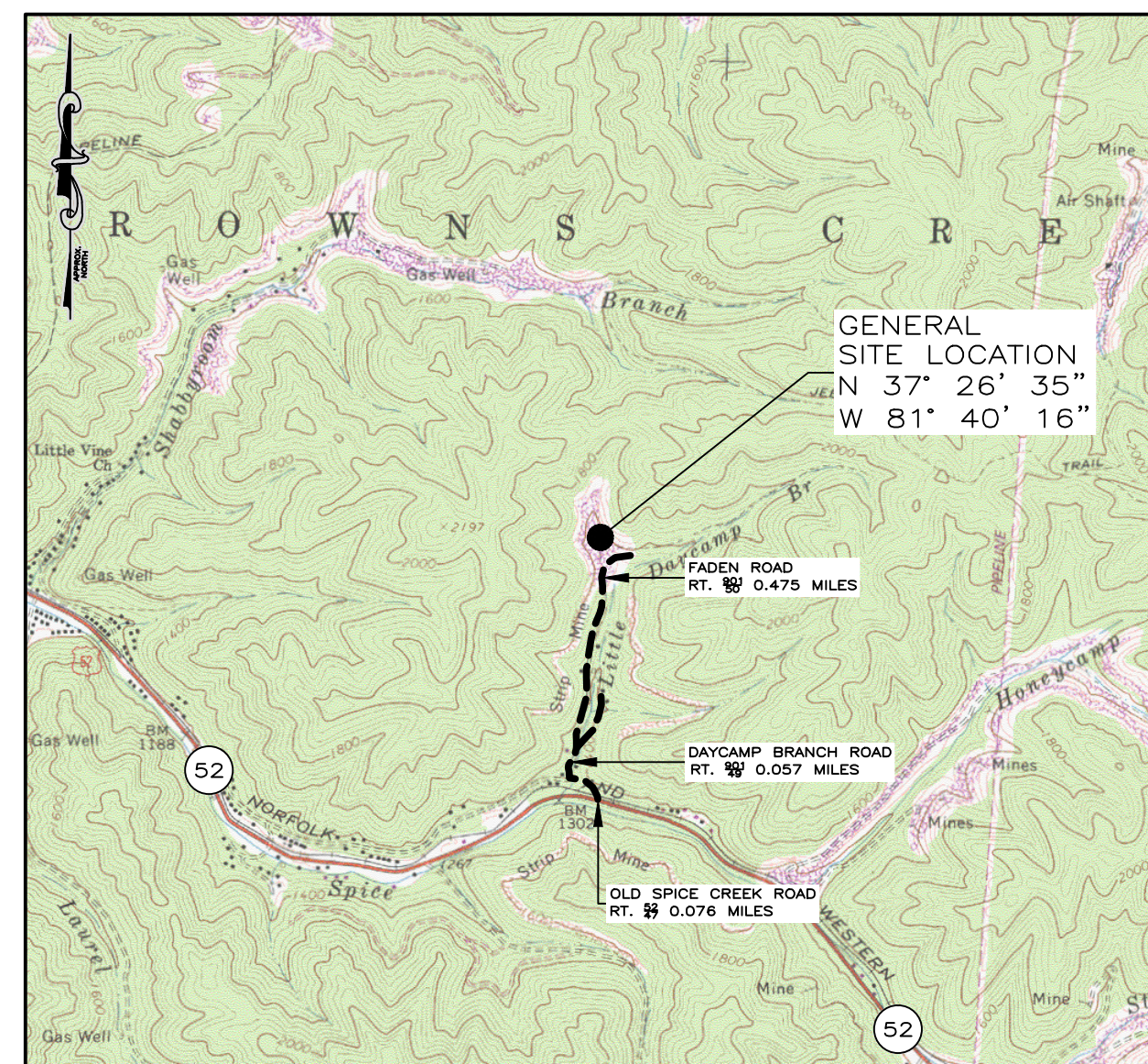
EARL RAY TOMBLIN, GOVERNOR RANDY C. HUFFMAN, CABINET SECRETARY

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

LITTLE DAY CAMP BRANCH REFUSE

MCDOWELL COUNTY, WEST VIRGINIA

VICINITY MAP



USGS 7.5' QUAD (DAVY)

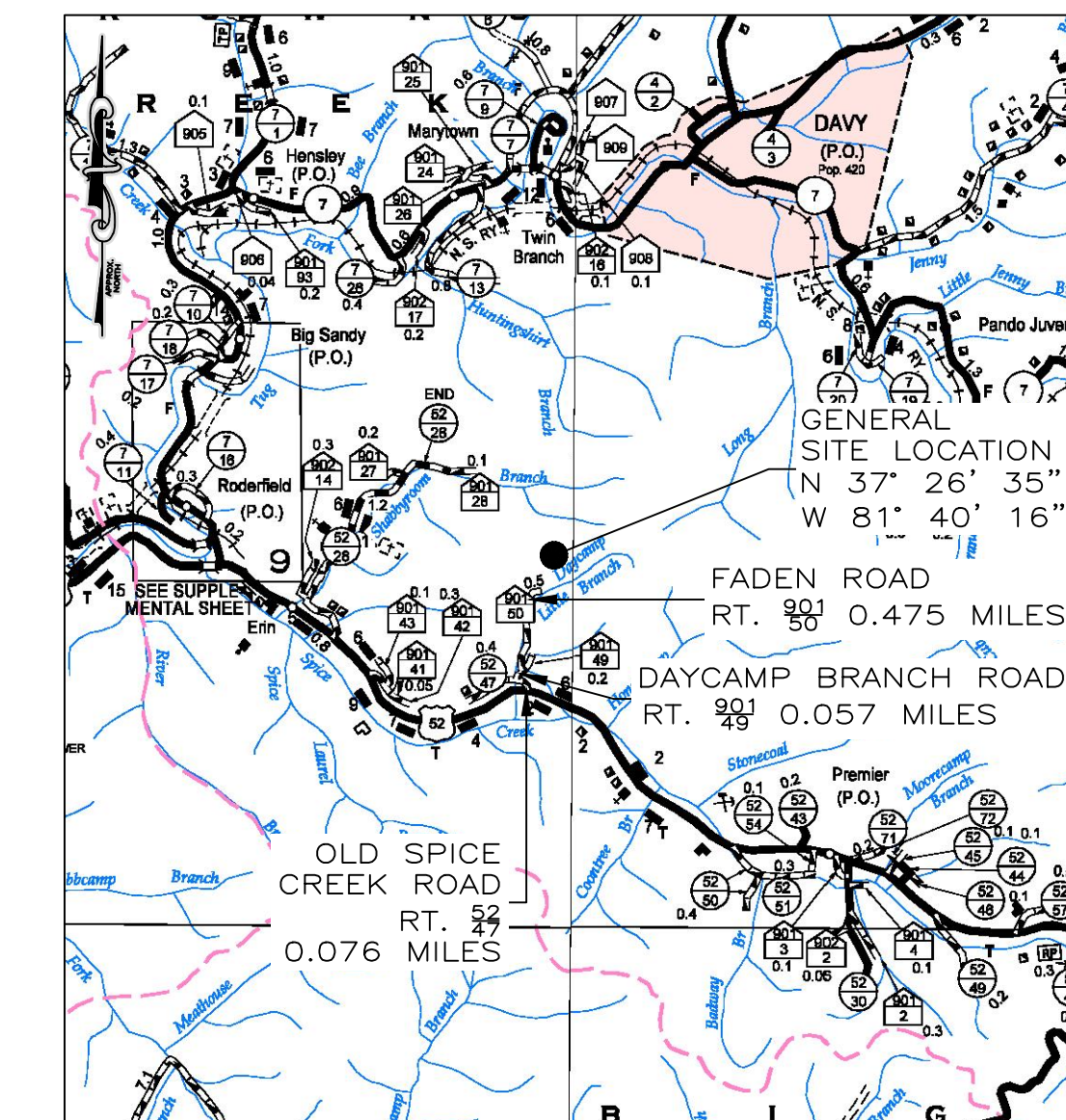
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
0	SITE LOCATION PLAN
1	EXISTING SITE CONDITIONS WITH BASELINE LAYOUT
2	PROPOSED SITE PLAN
3	TEMPORARY E & S CONTROL MEASURES - PHASE 1
4	TEMPORARY E & S CONTROL MEASURES - PHASE 2
5	TEMPORARY E & S CONTROL MEASURES - PHASE 3
6	PROPOSED SITE PLAN WITH TAX MAP OVERLAY
P-1	BASELINE A-A & B-B & PORTAL P-1 PROFILES
P-2	DRAINAGE CHANNEL DC-1 & DC-2 PROFILES
P-3	DRAINAGE CHANNEL DC-3, DC-4, DC-5 & DC-6 PROFILES
S-1	BASELINE A-A - STA. 0+00 - STA. 1+50 SECTIONS
S-2	BASELINE A-A - STA. 2+00 - STA. 3+00 SECTIONS
S-3	BASELINE A-A - STA. 3+50 - STA. 4+50 SECTIONS
S-4	BASELINE A-A - STA. 5+00 - STA. 6+00 SECTIONS
S-5	BASELINE A-A - STA. 6+50 - STA. 7+50 SECTIONS
S-6	BASELINE A-A - STA. 8+00 - STA. 10+50 SECTIONS
S-7	BASELINE B-B - STA. 0+00 - STA. 2+50 SECTIONS
S-8	BASELINE B-B - STA. 3+00 - STA. 5+50 SECTIONS
S-9	BASELINE B-B - STA. 6+00 - STA. 7+00 SECTIONS
D-1	SINGLE BAT GATE MINE SEAL DETAIL - ELIMINATED
D-2	MISCELLANEOUS DETAILS
D-3	MISCELLANEOUS DETAILS
E-1	TEMPORARY E&S CONTROL DETAILS
E-2	TEMPORARY E&S CONTROL DETAILS

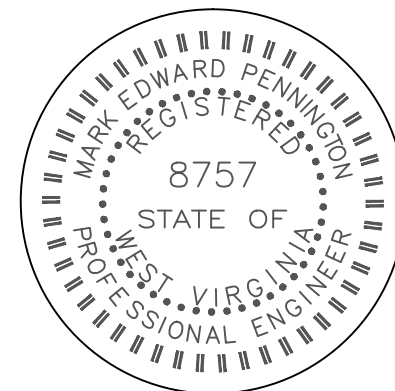
BID SCHEDULE

ITEM NO.	DESCRIPTION	QUANTITY
1.0	Mobilization & Demobilization (Limited to 10% of Total Bid)	1 LS
2.0	Construction Layout Stakes (Limited to 3% of Total Bid)	1 LS
3.0	Quality Control (Limited to 2% of Total Bid)	1 LS
4.1	Site Preparation (Limited to 10% of Total Bid)	1 LS
5.1	Stabilized Construction Entrance	1 EA
5.2	Silt Fence	1060 LF
5.3	Wattles	16 LF
5.4	Rock Check with Sump	1 EA
5.5	Temporary Ditch	1145 LF
5.6	Temporary 15" Diameter HDPE CPP	80 LF
5.7	Dewatering Bag	1 EA
6.0	Revegetation (per plan view acre)	6.6 AC
7.1	2H:1V Rip Rap "Vee" Channel	1716 LF
7.2	2H:1V Rip Rap "Trapezoidal" Channel	347 LF
7.3	2H:1V Grouted Rip Rap "Trapezoidal" Channel	218 LF
7.4	Rip Rap Trapezoidal Channel Road Crossing	1 EA
7.5	Rip Rap Armoring	90 TN
7.6	Concrete Weir	1 LS
8.1	Unclassified Excavation	51560 CY
8.2	12" Soil Cover (per plan view acre)	1.2 AC
8.3	3" Soil Cover (per plan view acre)	3.9 AC
10.1	Under-drain	200 LF
10.2	12" Diameter SDR 35 Solid PVC Conveyance Pipe	50 LF

LOCATION MAP



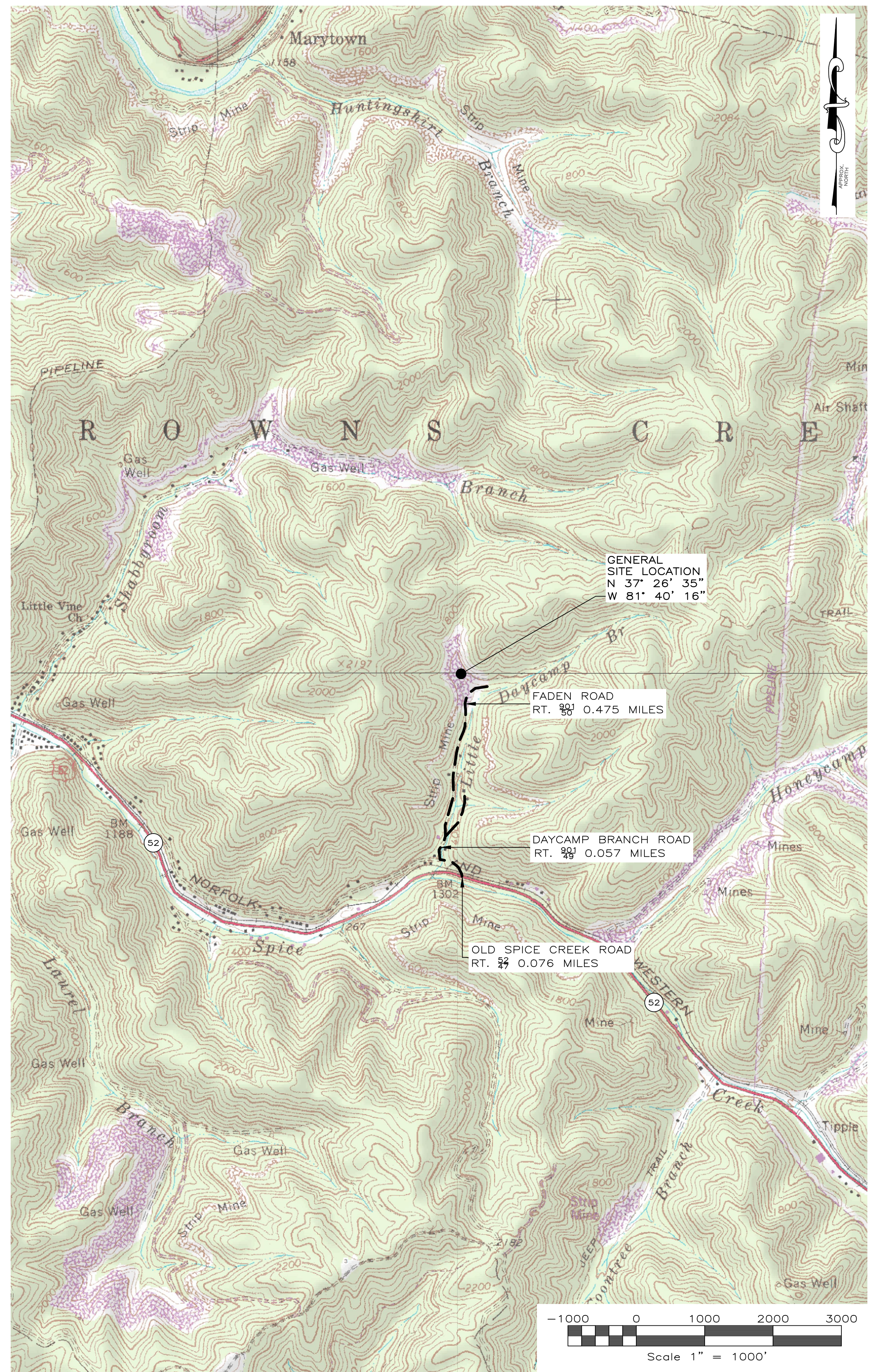
COUNTY HIGHWAY MAP, 1" = 1 MI.



Mark E. Pennington
 MARK E. PENNINGTON RPE NO. 8757

01-27-14
 DATE

DRAINAGE CHANNEL	MATERIAL TYPE	SHAPE	DEPTH	LENGTH (LF)
DC-1	RIP RAP	"VEE" CHANNEL	2'	600
DC-2	RIP RAP	"VEE" CHANNEL	2'	588
DC-3	RIP RAP	TRAPEZOIDAL CHANNEL	2'	347
DC-4	RIP RAP	"VEE" CHANNEL	2'	310
DC-5	GROUTED RIP RAP	TRAPEZOIDAL CHANNEL	3'	218
DC-6	RIP RAP	"VEE" CHANNEL	2'	218



SITE LOCATION PLAN

SCALE: 1" = 1000'

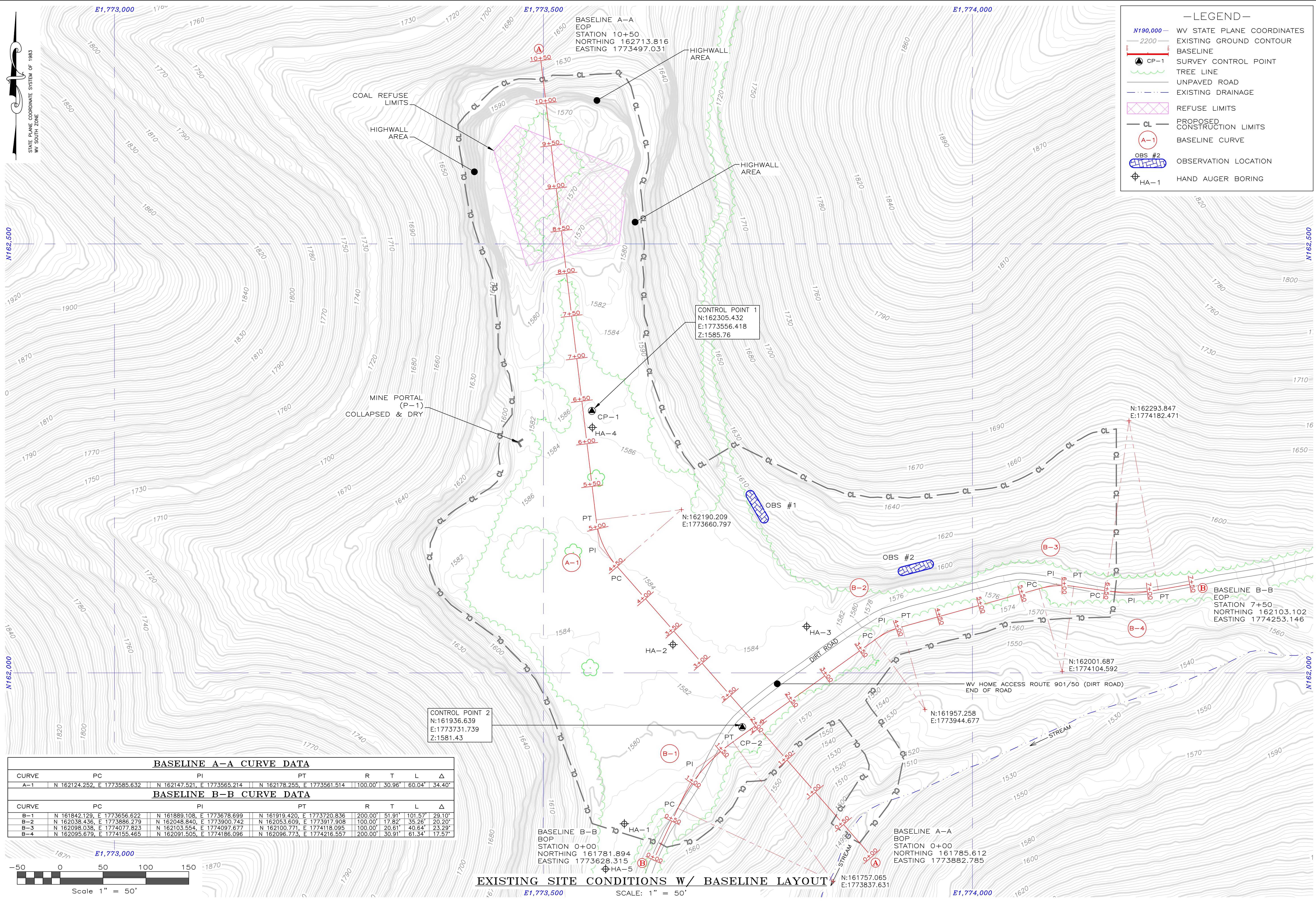
REVISIONS	
DATE	DESCRIPTION
02/03/14	HNC GENERAL NOTES & PORTAL INVENTORY ELIMINATED

SCALE: AS SHOWN	AML & R
DRAWN BY: CDA	WDEP
CHECKED BY: MEP	

PROPOSED SITE LOCATION PLAN	
LITTLE DAYCAMP BRANCH REFUSE	
MCDOWELL COUNTY, WEST VIRGINIA	

CIVIL TECH ENGINEERING, INC.
HURRICANE, WEST VIRGINIA

DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	0



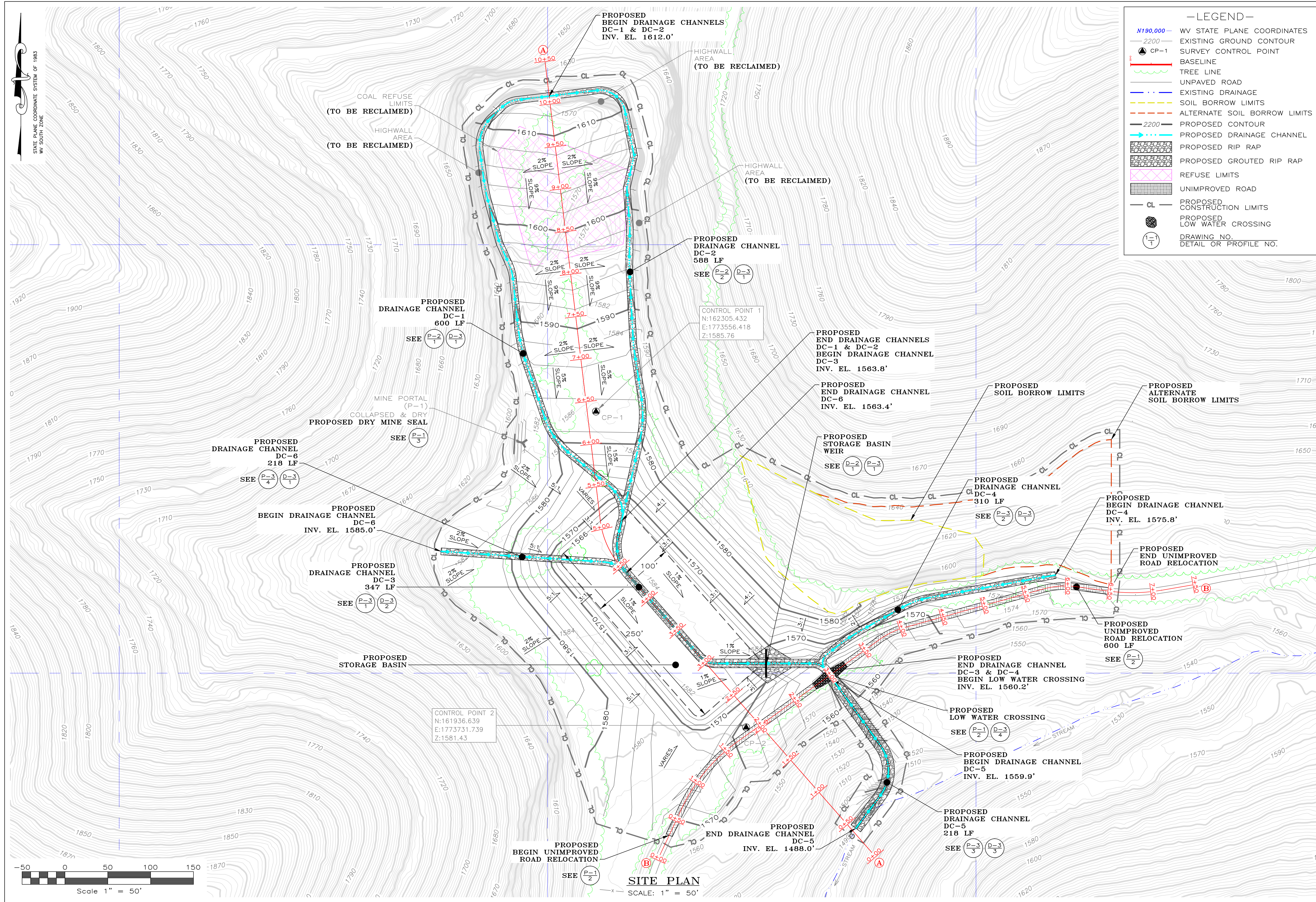
—LEGEND—

- N190,000 WVA STATE PLANE COORDINATES
- 2200 EXISTING GROUND CONTOUR
- SOLID LINE BASELINE
- CP-1 SURVEY CONTROL POINT
- TREE LINE
- UNPAVED ROAD
- EXISTING DRAINAGE
- REFUSE LIMITS
- CL PROPOSED CONSTRUCTION LIMITS
- A-1 BASELINE CURVE
- OBS #2 OBSERVATION LOCATION
- HA-1 HAND AUGER BORING

BASELINE A-A CURVE DATA							
CURVE	PC	PI	PT	R	T	L	Δ
A-1	N 162124.252, E 1773585.632	N 162147.521, E 1773565.214	N 162178.255, E 1773561.514	100.00'	30.96'	60.04'	34.40'

BASELINE B-B CURVE DATA							
CURVE	PC	PI	PT	R	T	L	Δ
B-1	N 161842.129, E 1773656.622	N 161889.108, E 1773678.699	N 161919.420, E 1773720.836	200.00'	51.91'	101.57'	29.10'
B-2	N 162038.436, E 1773896.279	N 162048.840, E 1773900.742	N 162053.609, E 1773917.908	100.00'	17.82'	35.28'	20.20'
B-3	N 162096.036, E 1774077.823	N 162103.554, E 1774097.677	N 162100.771, E 177418.095	100.00'	20.61'	40.64'	23.29'
B-4	N 162095.679, E 1774155.465	N 162091.505, E 1774186.096	N 162096.773, E 1774216.557	200.00'	30.91'	61.34'	17.57'

REVISIONS PORTAL REFERENCES ELIMINATED.	SCALE: AS SHOWN
	DRAWN BY: CCA CHECKED BY: MFP
AML & R WVDEP	
EXISTING SITE CONDITIONS WITH BASELINE LAYOUT LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA	
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA	
DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	1



—LEGEND—

- N190,000 WV STATE PLANE COORDINATES
- 2200 EXISTING GROUND CONTOUR
- CP-1 SURVEY CONTROL POINT
- BASLINE
- TREE LINE
- UNPAVED ROAD
- EXISTING DRAINAGE
- SOIL BORROW LIMITS
- ALTERNATE SOIL BORROW LIMITS
- 2200 PROPOSED CONTOUR
- PROPOSED DRAINAGE CHANNEL
- PROPOSED RIP RAP
- PROPOSED GROUDED RIP RAP
- REFUSE LIMITS
- UNIMPROVED ROAD
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED LOW WATER CROSSING
- DRAWING NO. / DETAIL OR PROFILE NO.

REVISONS

SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: WEP

AML & R
 WDEP

SITE PLAN
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

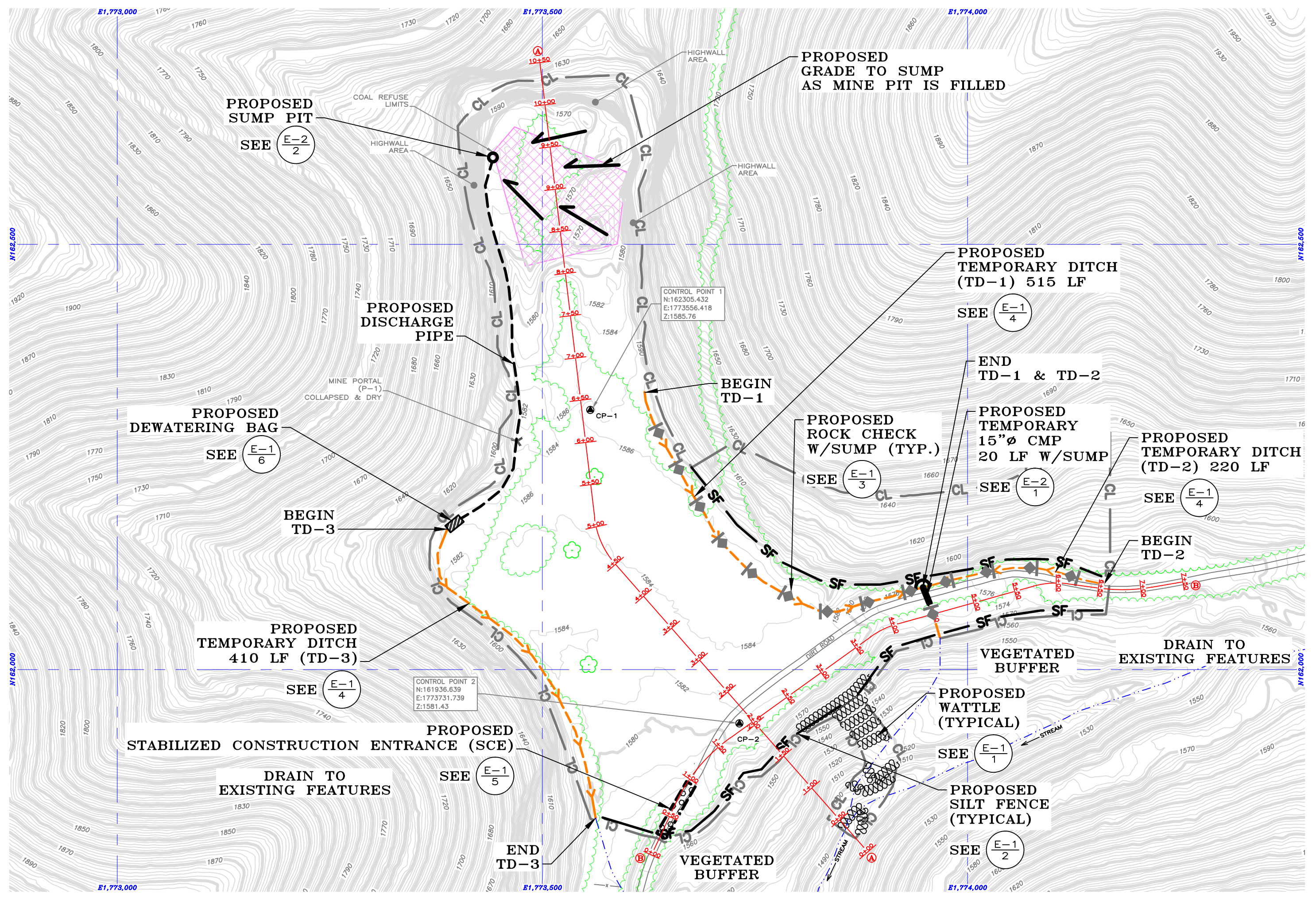
DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	2

SURVEY PERFORMED BY MEAD & HUNT ON 03/25/2013.

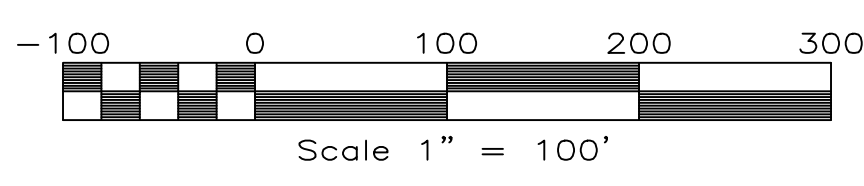
—LEGEND—

	N190,000	WV STATE PLANE COORDINATES
	1730	EXISTING GROUND CONTOUR
	1730	PROPOSED GROUND CONTOUR
	856.1	SPOT ELEVATION
		BASELINE
	CP-1	SURVEY CONTROL POINT
		TREE LINE
		UTILITY POLE
		UNPAVED ROAD
		TRAIL
		EXISTING DRAINAGE
		GAS LINE
		OVERHEAD ELECTRIC
		REFUSE LIMITS
	CL	PROPOSED CONSTRUCTION LIMITS
		PROPOSED STABILIZED CONSTRUCTION ENTRANCE (SCE)
		PROPOSED RIP RAP
		PROPOSED PERMANENT DRAINAGE CHANNEL
		PROPOSED TEMPORARY DITCH
		PROPOSED ROCK CHECK WITH SUMP
	SF	PROPOSED SILT FENCE
		PROPOSED TEMPORARY 15"Ø CPP WITH INLET CHECK DAM
		PROPOSED TEMPORARY 15"Ø CPP
		PROPOSED WATTLE
		PROPOSED LOW WATER CROSSING
	1-T	DRAWING NO. / DETAIL OR PROFILE NO.

STATE PLANE COORDINATE SYSTEM OF 1983
WV SOUTH ZONE



TEMPORARY E & S PLAN
(PHASE 1)
SCALE: 1" = 100'



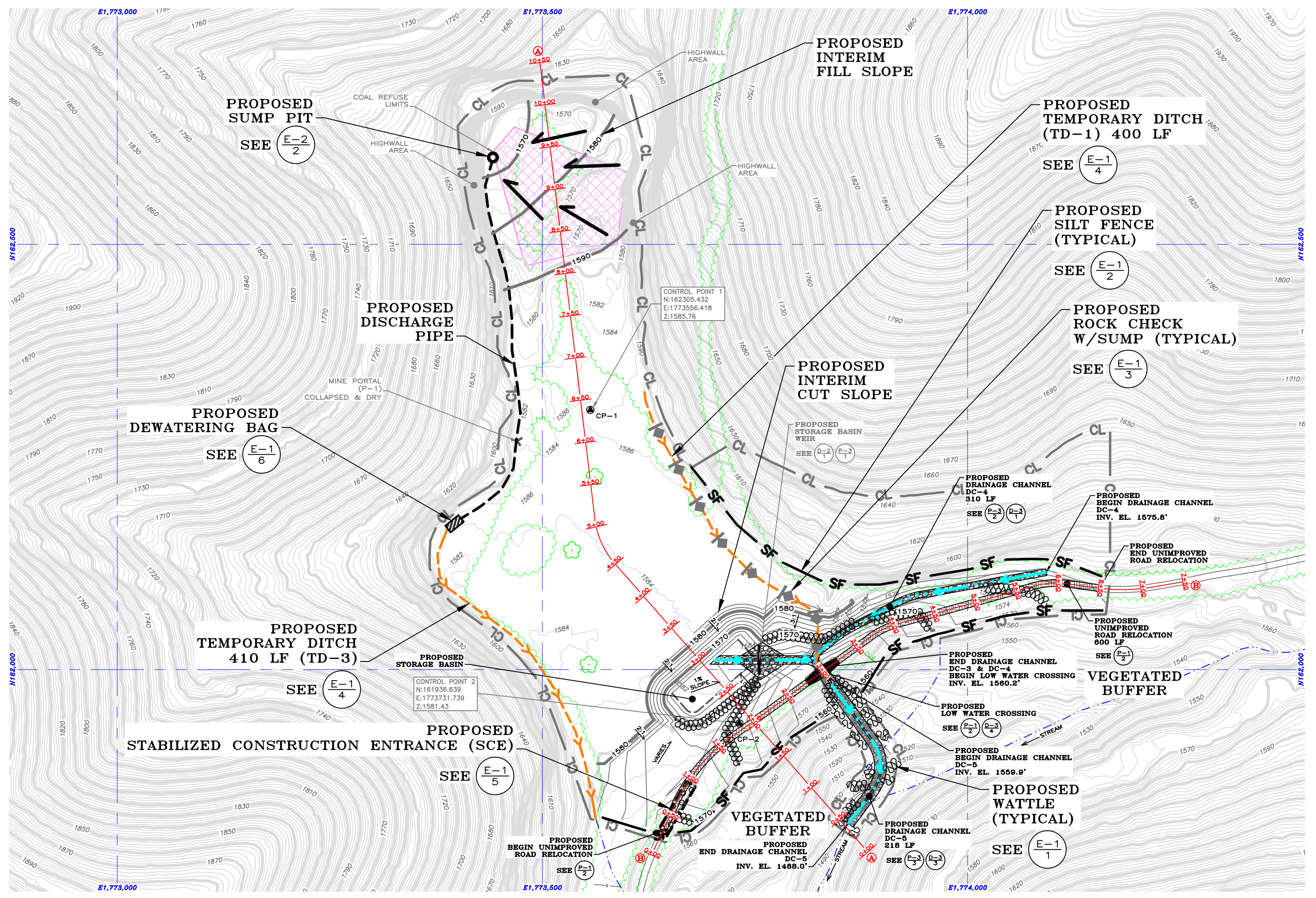
- CONSTRUCTION SEQUENCE**
- GENERAL REQUIREMENTS (ALL PHASES)**
1. Install Stabilized Construction Entrance before beginning work.
 2. Install temporary perimeter measures including silt fence and rock check dams before stripping or clearing the construction site in accordance with the phased sequence described below.
 3. Maintain vegetative buffers adjacent to all parts of the site.
 4. Construct project in accordance with the specific sequence for each phase of the work provided below. Work will generally be performed downstream to upstream and each component of the project will be completed and revegetated as work progresses.
 5. Reclaim and revegetate all areas as work is completed.
 6. Maintain temporary measures until the site is revegetated.
 7. Remove temporary measures (except wattles) and reclaim the affected area after the site is re-vegetated in accordance with the approved SWPPP.
- PHASE 1 SEQUENCE**
1. Install the SCE, wattles, and silt fence.
 2. Construct Temporary Ditches TD-1, TD-2, and TD-3 with rock ditch checks and sumps.
 3. Install the temporary 15 inch HDPE CPP with inlet protection.
 4. Construct a sump in the mine pit and grade the site and new fill to drain to the sump. Pump surface water from the mine pit through a dewatering bag(s) before discharge to TD-3.
 5. Clear and Grub the site.
 6. Strip and stockpile topsoil from the construction area. Install silt fence around the stockpile(s).

REVISIONS	PORTAL REFERENCES ELIMINATED.
	2.03.2014 CDA
SCALE: AS SHOWN	DRAWN BY: CDA
AML & R	CHECKED BY: MEF
PROPOSED TEMPORARY EROSION & SEDIMENT CONTROL LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA	
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA	
DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	3

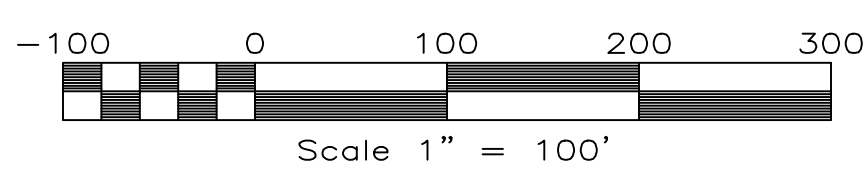
—LEGEND—

	N190,000	WV STATE PLANE COORDINATES
	1730	EXISTING GROUND CONTOUR
	1730	PROPOSED GROUND CONTOUR
	856.1	SPOT ELEVATION
		BASELINE
	CP-1	SURVEY CONTROL POINT
		TREE LINE
		UTILITY POLE
		UNPAVED ROAD
		TRAIL
		EXISTING DRAINAGE
		GAS LINE
		OVERHEAD ELECTRIC
		REFUSE LIMITS
	CL	PROPOSED CONSTRUCTION LIMITS
		PROPOSED STABILIZED CONSTRUCTION ENTRANCE (SCE)
		PROPOSED RIP RAP
		PROPOSED PERMANENT DRAINAGE CHANNEL
		PROPOSED TEMPORARY DITCH
		PROPOSED ROCK CHECK WITH SUMP
	SF	PROPOSED SILT FENCE
		PROPOSED TEMPORARY 15" CPP WITH INLET CHECK DAM
		PROPOSED TEMPORARY 15" CPP
		PROPOSED WATTLE
		PROPOSED LOW WATER CROSSING
	1-1	DRAWING NO. DETAIL OR PROFILE NO.

STATE PLANE COORDINATE SYSTEM OF 1983
WV SOUTH ZONE



TEMPORARY E & S PLAN
(PHASE 2)
SCALE: 1" = 100'

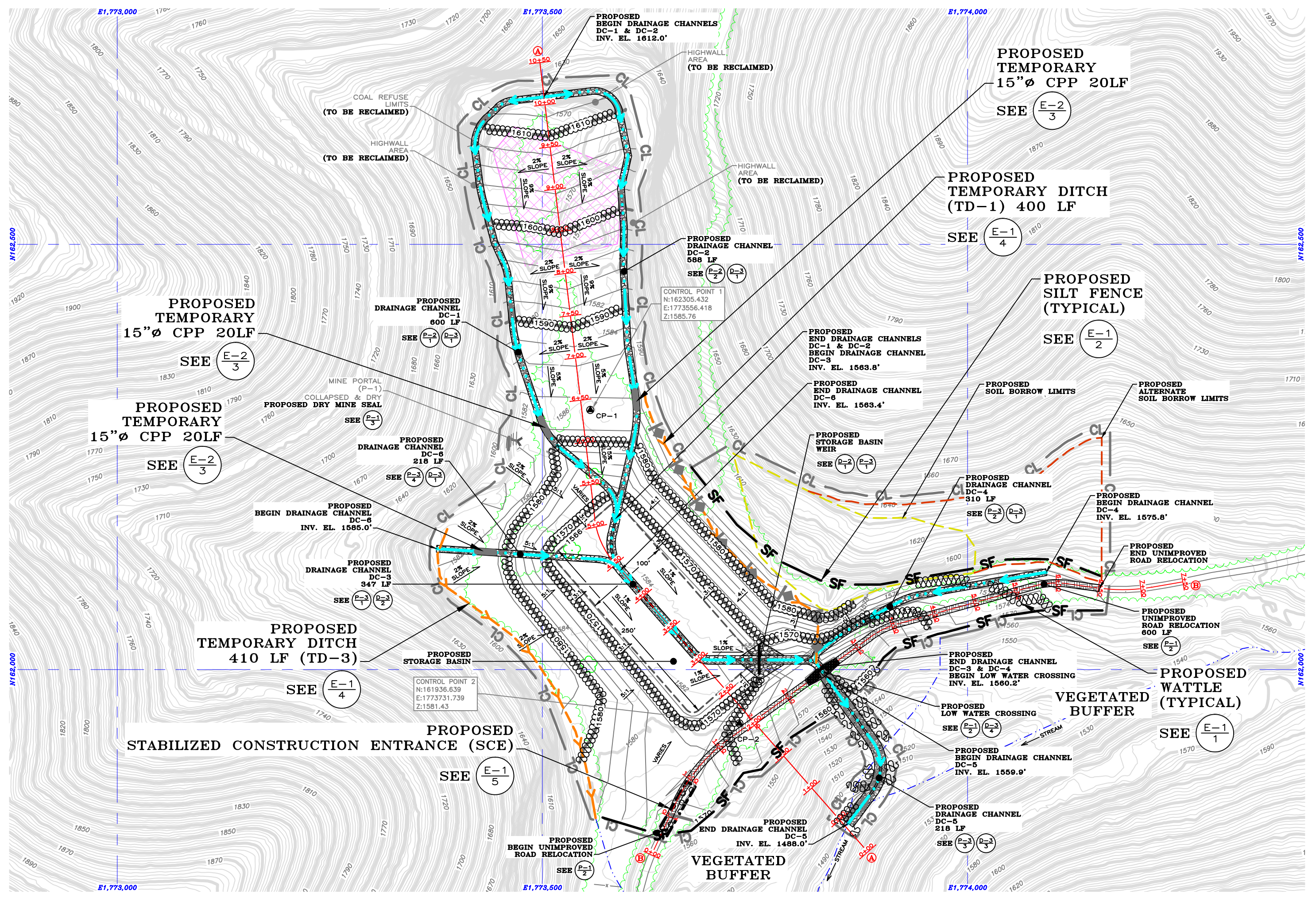


- CONSTRUCTION SEQUENCE**
- GENERAL REQUIREMENTS (ALL PHASES)**
1. Install Stabilized Construction Entrance before beginning work.
 2. Install temporary perimeter measures including silt fence and rock check dams before stripping or clearing the construction site in accordance with the phased sequence described below.
 3. Maintain vegetative buffers adjacent to all parts of the site.
 4. Construct project in accordance with the specific sequence for each phase of the work provided below. Work will generally be performed downstream to upstream and each component of the project will be completed and revegetated as work progresses.
 5. Reclaim and revegetate all areas as work is completed.
 6. Maintain temporary measures until the site is revegetated.
 7. Remove temporary measures (except wattles) and reclaim the affected area after the site is re-vegetated in accordance with the approved SWPPP.
- PHASE 2 SEQUENCE**
1. Construct Permanent Drainage Channel DC-5 working downstream to upstream and maintain adjacent wattles.
 2. Excavate the roadway baseline starting at Station 2+00 up and down station from this location.
 3. Maintain the mine pit fill slope to the sump until this area is filled to the bench grade.
 4. Construct the low water crossing and Permanent Drainage Channels DC-3, DC-4, and the Reinforced Concrete Weir with rip rap armoring working downstream to upstream.
 5. Install, adjust, and maintain silt fence, wattles, ditch checks, and temporary ditches.
 6. Remove/modify temporary ditches TD-1 and TD-2 as excavation proceeds.

REVISIONS	PORTAL REFERENCES ELIMINATED.
	2.03.2014 JCA
SCALE: AS SHOWN	DRAWN BY: JCA CHECKED BY: MEF
AML & R WDEP	
PROPOSED TEMPORARY EROSION & SEDIMENT CONTROL LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA	
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA	
DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	4

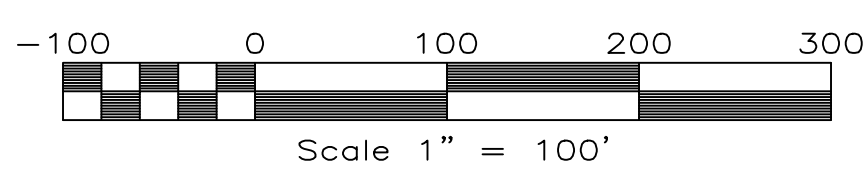
- LEGEND—
- N190,000 — WV STATE PLANE COORDINATES
 - 1730— EXISTING GROUND CONTOUR
 - 1730— PROPOSED GROUND CONTOUR
 - 856.1 X SPOT ELEVATION
 - BASELINE
 - CP-1 SURVEY CONTROL POINT
 - TREE LINE
 - UTILITY POLE
 - UNPAVED ROAD
 - TRAIL
 - EXISTING DRAINAGE
 - GAS LINE
 - OE — OVERHEAD ELECTRIC
 - REFUSE LIMITS
 - CL — PROPOSED CONSTRUCTION LIMITS
 - PROPOSED STABILIZED CONSTRUCTION ENTRANCE (SCE)
 - PROPOSED RIP RAP
 - PROPOSED PERMANENT DRAINAGE CHANNEL
 - PROPOSED TEMPORARY DITCH
 - PROPOSED ROCK CHECK WITH SUMP
 - SF — PROPOSED SILT FENCE
 - PROPOSED TEMPORARY 15"Ø CPP WITH INLET CHECK DAM
 - PROPOSED TEMPORARY 15"Ø CPP
 - PROPOSED WATTLE
 - PROPOSED LOW WATER CROSSING
 - DRAWING NO. / DETAIL OR PROFILE NO.

STATE PLANE COORDINATE SYSTEM OF 1983
WV SOUTH ZONE

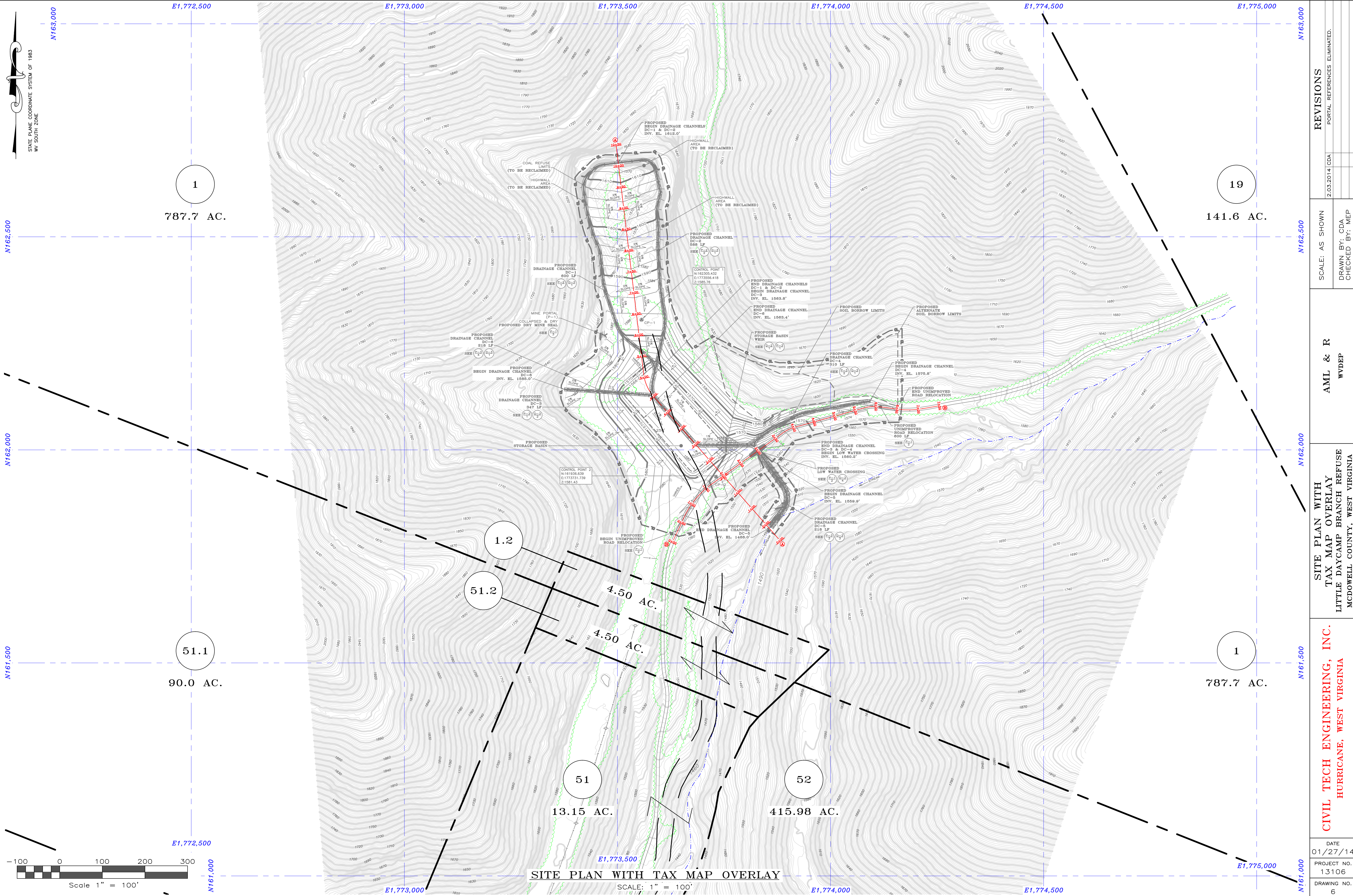


**TEMPORARY E & S PLAN
(PHASE 3)**
SCALE: 1" = 100'

- CONSTRUCTION SEQUENCE**
- GENERAL REQUIREMENTS (ALL PHASES)**
1. Install Stabilized Construction Entrance before beginning work.
 2. Install temporary perimeter measures including silt fence and rock check dams before stripping or clearing the construction site in accordance with the phased sequence described below.
 3. Maintain vegetative buffers adjacent to all parts of the site.
 4. Construct project in accordance with the specific sequence for each phase of the work provided below. Work will generally be performed downstream to upstream and each component of the project will be completed and revegetated as work progresses.
 5. Reclaim and revegetate all areas as work is completed.
 6. Maintain temporary measures until the site is revegetated.
 7. Remove temporary measures (except wattles) and reclaim the affected area after the site is re-vegetated in accordance with the approved SWPPP.
- PHASE 3 SEQUENCE**
1. Construct Permanent Drainage Channel DC-3 upstream of the weir.
 2. Adjust Temporary Ditch TD-1 to maintain drainage while the basin is being constructed.
 3. Install silt fence below the soil borrow area.
 4. Revegetate and install silt fence and wattles as the work is completed.
 5. Construct the highwall backfill slope and Permanent Drainage Channels DC-1, DC-2, and DC-6.
 6. Install temporary 15 inch HDPE CPP in temporary ditches DC-1, DC-2, and DC-6 without inlet protection.
 7. Revegetate/install wattles as the work is completed.



	REVISIONS		
	PORTAL REFERENCES ELIMINATED.		
SCALE: AS SHOWN	2.03.2014 CDA		
AML & R	WDEP		
PROPOSED TEMPORARY EROSION & SEDIMENT CONTROL LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA			
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA			
	DATE	01/27/14	
	PROJECT NO.	13106	
	DRAWING NO.	5	



STATE PLANE COORDINATE SYSTEM OF 1983
 WV SOUTH ZONE

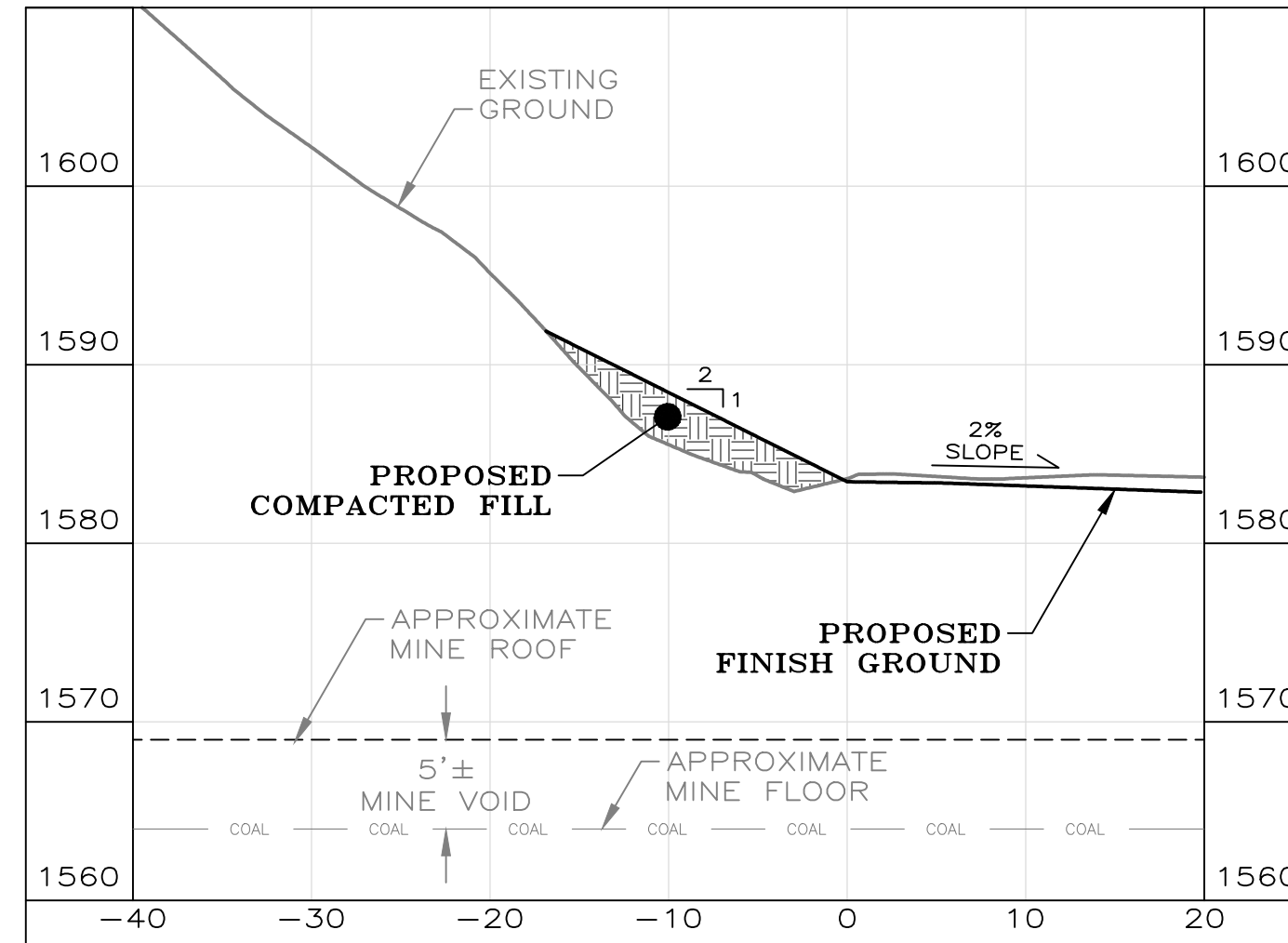
Scale 1" = 100'

SITE PLAN WITH TAX MAP OVERLAY
 SCALE: 1" = 100'

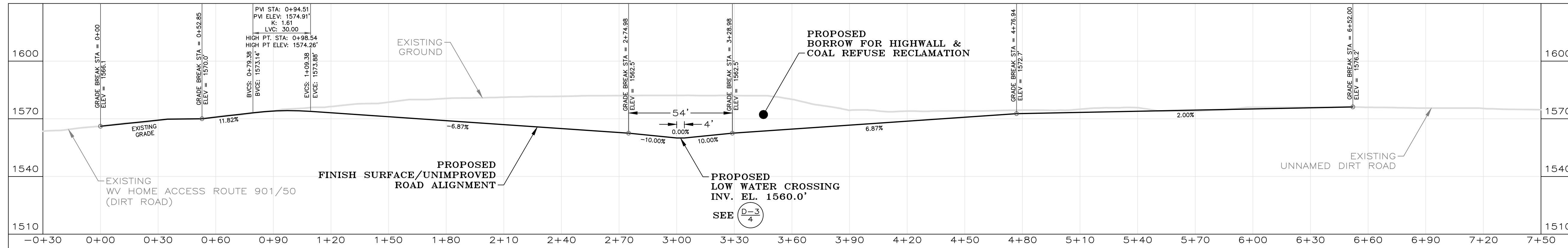
Parcel 1: 787.7 AC.
 Parcel 19: 141.6 AC.
 Parcel 51.1: 90.0 AC.
 Parcel 51: 13.15 AC.
 Parcel 51.2: 51.2 AC.
 Parcel 4.50 AC
 Parcel 4.50 AC
 Parcel 52: 415.98 AC.
 Parcel 1: 787.7 AC.

Annotations:
 PROPOSED DRAINAGE CHANNEL DC-1 600 LF
 PROPOSED STORAGE BASIN
 PROPOSED UNIMPROVED ROAD RELOCATION 600 LF
 PROPOSED LOW WATER CROSSING
 CONTROL POINT 1
 CONTROL POINT 2
 COAL REFUSE (TO BE RECLAIMED)
 HIGHWALL AREA (TO BE RECLAIMED)
 PROPOSED DRAINAGE CHANNEL DC-2
 PROPOSED DRAINAGE CHANNEL DC-3
 PROPOSED DRAINAGE CHANNEL DC-4
 PROPOSED DRAINAGE CHANNEL DC-5
 PROPOSED DRAINAGE CHANNEL DC-6
 PROPOSED DRAINAGE CHANNEL DC-7
 PROPOSED DRAINAGE CHANNEL DC-8
 PROPOSED DRAINAGE CHANNEL DC-9
 PROPOSED DRAINAGE CHANNEL DC-10
 PROPOSED DRAINAGE CHANNEL DC-11
 PROPOSED DRAINAGE CHANNEL DC-12
 PROPOSED DRAINAGE CHANNEL DC-13
 PROPOSED DRAINAGE CHANNEL DC-14
 PROPOSED DRAINAGE CHANNEL DC-15
 PROPOSED DRAINAGE CHANNEL DC-16
 PROPOSED DRAINAGE CHANNEL DC-17
 PROPOSED DRAINAGE CHANNEL DC-18
 PROPOSED DRAINAGE CHANNEL DC-19
 PROPOSED DRAINAGE CHANNEL DC-20
 PROPOSED DRAINAGE CHANNEL DC-21
 PROPOSED DRAINAGE CHANNEL DC-22
 PROPOSED DRAINAGE CHANNEL DC-23
 PROPOSED DRAINAGE CHANNEL DC-24
 PROPOSED DRAINAGE CHANNEL DC-25
 PROPOSED DRAINAGE CHANNEL DC-26
 PROPOSED DRAINAGE CHANNEL DC-27
 PROPOSED DRAINAGE CHANNEL DC-28
 PROPOSED DRAINAGE CHANNEL DC-29
 PROPOSED DRAINAGE CHANNEL DC-30
 PROPOSED DRAINAGE CHANNEL DC-31
 PROPOSED DRAINAGE CHANNEL DC-32
 PROPOSED DRAINAGE CHANNEL DC-33
 PROPOSED DRAINAGE CHANNEL DC-34
 PROPOSED DRAINAGE CHANNEL DC-35
 PROPOSED DRAINAGE CHANNEL DC-36
 PROPOSED DRAINAGE CHANNEL DC-37
 PROPOSED DRAINAGE CHANNEL DC-38
 PROPOSED DRAINAGE CHANNEL DC-39
 PROPOSED DRAINAGE CHANNEL DC-40
 PROPOSED DRAINAGE CHANNEL DC-41
 PROPOSED DRAINAGE CHANNEL DC-42
 PROPOSED DRAINAGE CHANNEL DC-43
 PROPOSED DRAINAGE CHANNEL DC-44
 PROPOSED DRAINAGE CHANNEL DC-45
 PROPOSED DRAINAGE CHANNEL DC-46
 PROPOSED DRAINAGE CHANNEL DC-47
 PROPOSED DRAINAGE CHANNEL DC-48
 PROPOSED DRAINAGE CHANNEL DC-49
 PROPOSED DRAINAGE CHANNEL DC-50
 PROPOSED DRAINAGE CHANNEL DC-51
 PROPOSED DRAINAGE CHANNEL DC-52
 PROPOSED DRAINAGE CHANNEL DC-53
 PROPOSED DRAINAGE CHANNEL DC-54
 PROPOSED DRAINAGE CHANNEL DC-55
 PROPOSED DRAINAGE CHANNEL DC-56
 PROPOSED DRAINAGE CHANNEL DC-57
 PROPOSED DRAINAGE CHANNEL DC-58
 PROPOSED DRAINAGE CHANNEL DC-59
 PROPOSED DRAINAGE CHANNEL DC-60
 PROPOSED DRAINAGE CHANNEL DC-61
 PROPOSED DRAINAGE CHANNEL DC-62
 PROPOSED DRAINAGE CHANNEL DC-63
 PROPOSED DRAINAGE CHANNEL DC-64
 PROPOSED DRAINAGE CHANNEL DC-65
 PROPOSED DRAINAGE CHANNEL DC-66
 PROPOSED DRAINAGE CHANNEL DC-67
 PROPOSED DRAINAGE CHANNEL DC-68
 PROPOSED DRAINAGE CHANNEL DC-69
 PROPOSED DRAINAGE CHANNEL DC-70
 PROPOSED DRAINAGE CHANNEL DC-71
 PROPOSED DRAINAGE CHANNEL DC-72
 PROPOSED DRAINAGE CHANNEL DC-73
 PROPOSED DRAINAGE CHANNEL DC-74
 PROPOSED DRAINAGE CHANNEL DC-75
 PROPOSED DRAINAGE CHANNEL DC-76
 PROPOSED DRAINAGE CHANNEL DC-77
 PROPOSED DRAINAGE CHANNEL DC-78
 PROPOSED DRAINAGE CHANNEL DC-79
 PROPOSED DRAINAGE CHANNEL DC-80
 PROPOSED DRAINAGE CHANNEL DC-81
 PROPOSED DRAINAGE CHANNEL DC-82
 PROPOSED DRAINAGE CHANNEL DC-83
 PROPOSED DRAINAGE CHANNEL DC-84
 PROPOSED DRAINAGE CHANNEL DC-85
 PROPOSED DRAINAGE CHANNEL DC-86
 PROPOSED DRAINAGE CHANNEL DC-87
 PROPOSED DRAINAGE CHANNEL DC-88
 PROPOSED DRAINAGE CHANNEL DC-89
 PROPOSED DRAINAGE CHANNEL DC-90
 PROPOSED DRAINAGE CHANNEL DC-91
 PROPOSED DRAINAGE CHANNEL DC-92
 PROPOSED DRAINAGE CHANNEL DC-93
 PROPOSED DRAINAGE CHANNEL DC-94
 PROPOSED DRAINAGE CHANNEL DC-95
 PROPOSED DRAINAGE CHANNEL DC-96
 PROPOSED DRAINAGE CHANNEL DC-97
 PROPOSED DRAINAGE CHANNEL DC-98
 PROPOSED DRAINAGE CHANNEL DC-99
 PROPOSED DRAINAGE CHANNEL DC-100

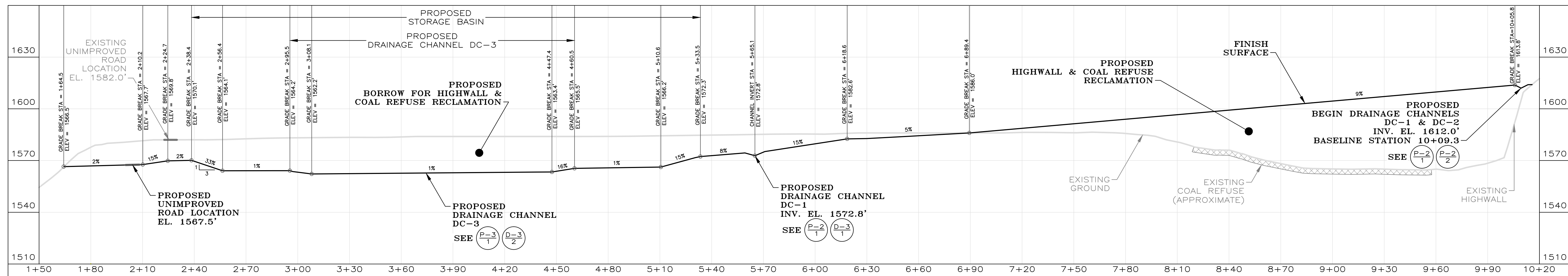
REVISIONS	SCALE: AS SHOWN	AML & R WDEP	SITE PLAN WITH TAX MAP OVERLAY LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA	DATE 01/27/14
PORTAL REFERENCES ELIMINATED.	2.03.2014 CDA			
	DRAWN BY: CCA			PROJECT NO. 13106
	CHECKED BY: MEP			DRAWING NO. 6



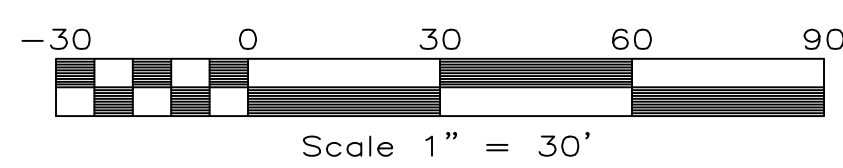
DETAIL (3)
PROPOSED PORTAL P-1 PROFILE
 SCALE: 1" = 10'



DETAIL (2)
PROPOSED BASELINE B-B PROFILE
 SCALE: 1" = 30'



DETAIL (1)
PROPOSED BASELINE A-A PROFILE
 SCALE: 1" = 30'



REVISIONS

DATE BY

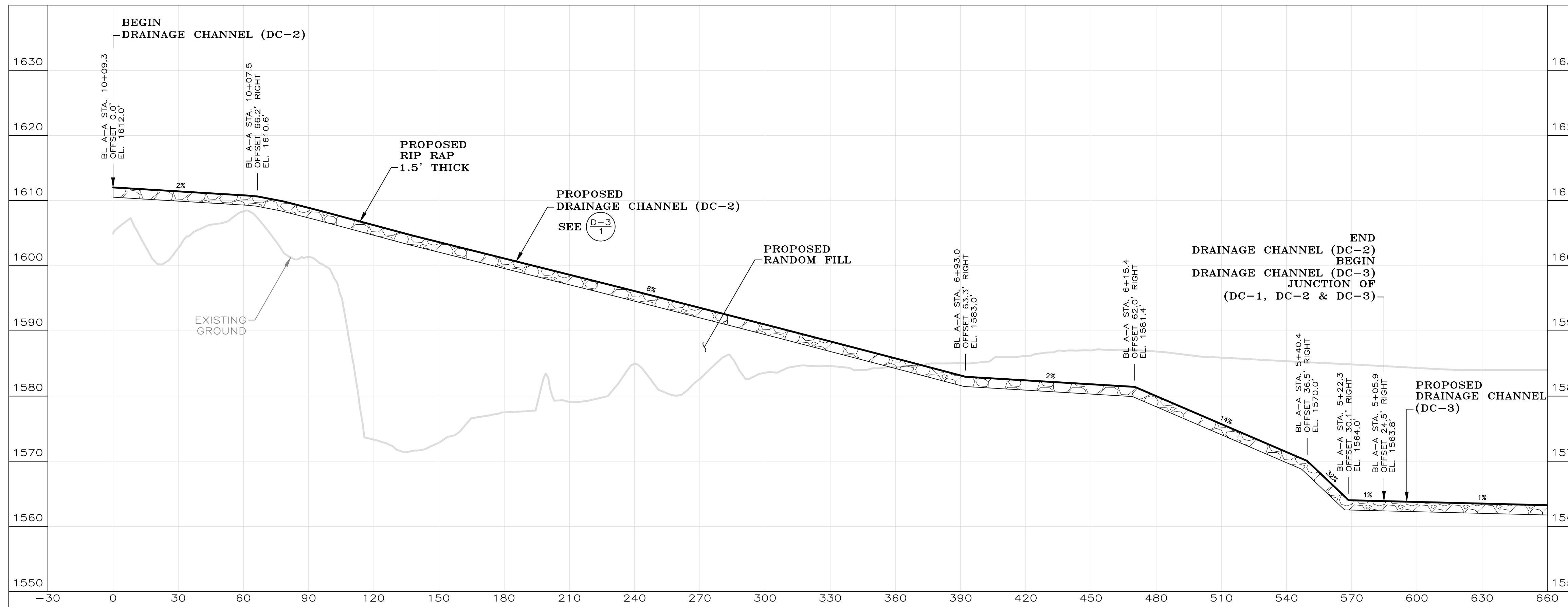
SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: MEP

AML & R
 WDEP

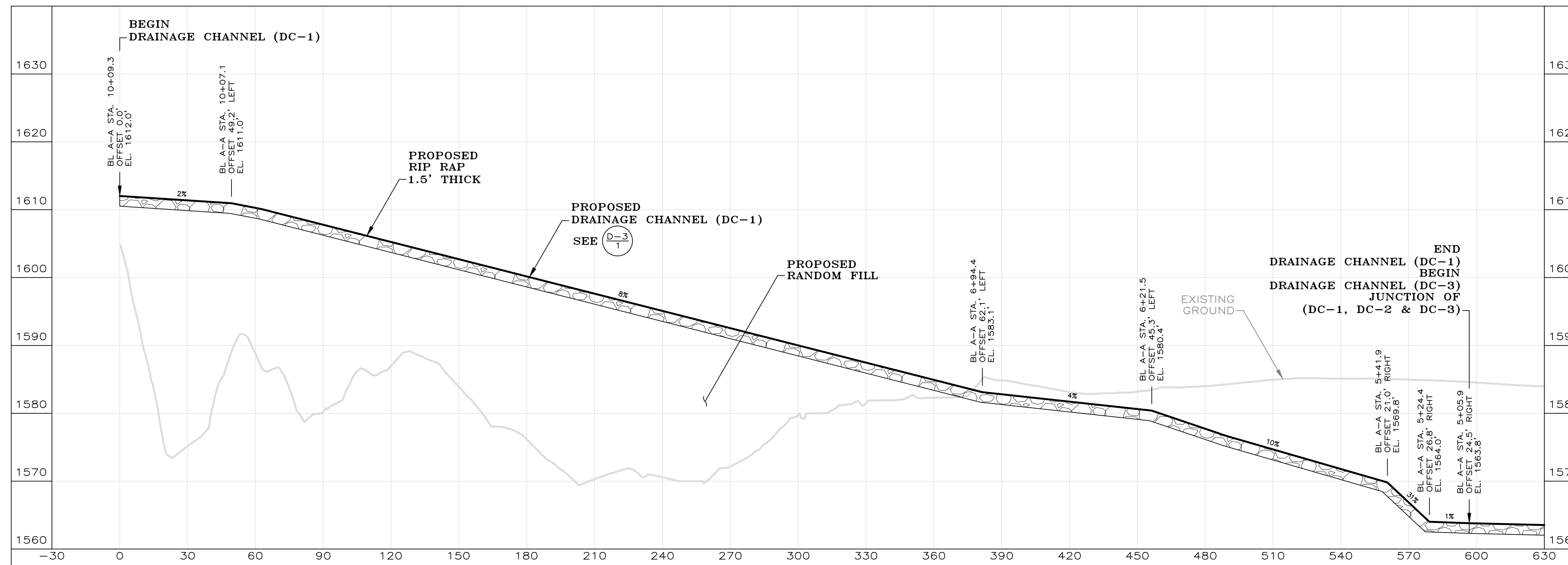
BASELINE A-A & B-B PROFILES
 & PORTAL 1 PROFILE
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

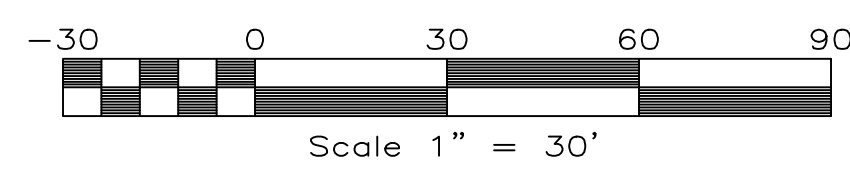
DATE
 01/27/14
 PROJECT NO.
 13106
 DRAWING NO.
 P-1



DETAIL (2)
PROPOSED DRAINAGE CHANNEL (DC-2) PROFILE
 SCALE: H: 1" = 30', V: 1" = 10'



DETAIL (1)
PROPOSED DRAINAGE CHANNEL (DC-1) PROFILE
 SCALE: H: 1" = 30', V: 1" = 10'



REVISIONS	
DATE	DESCRIPTION

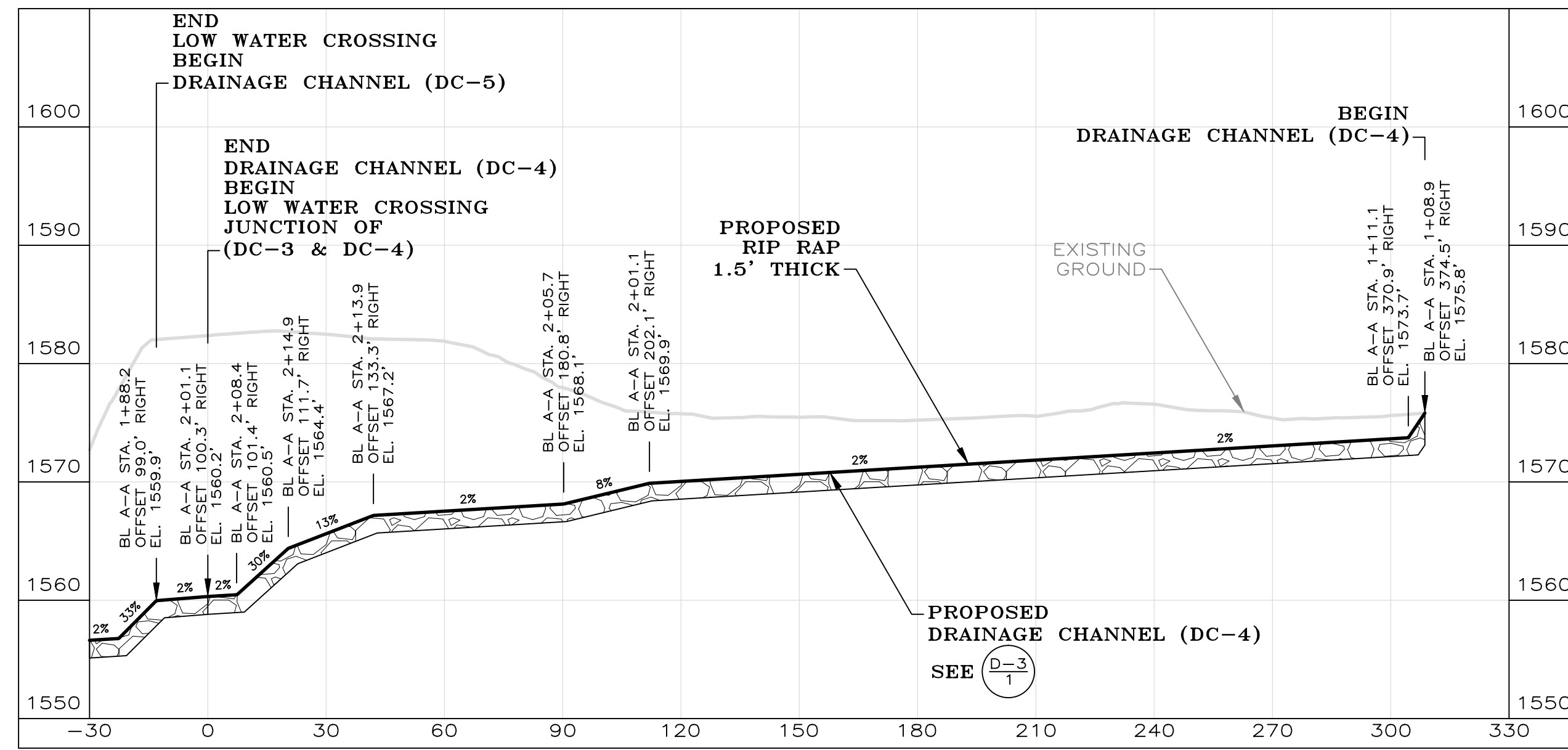
SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: MEP

AML & R
 WDEP

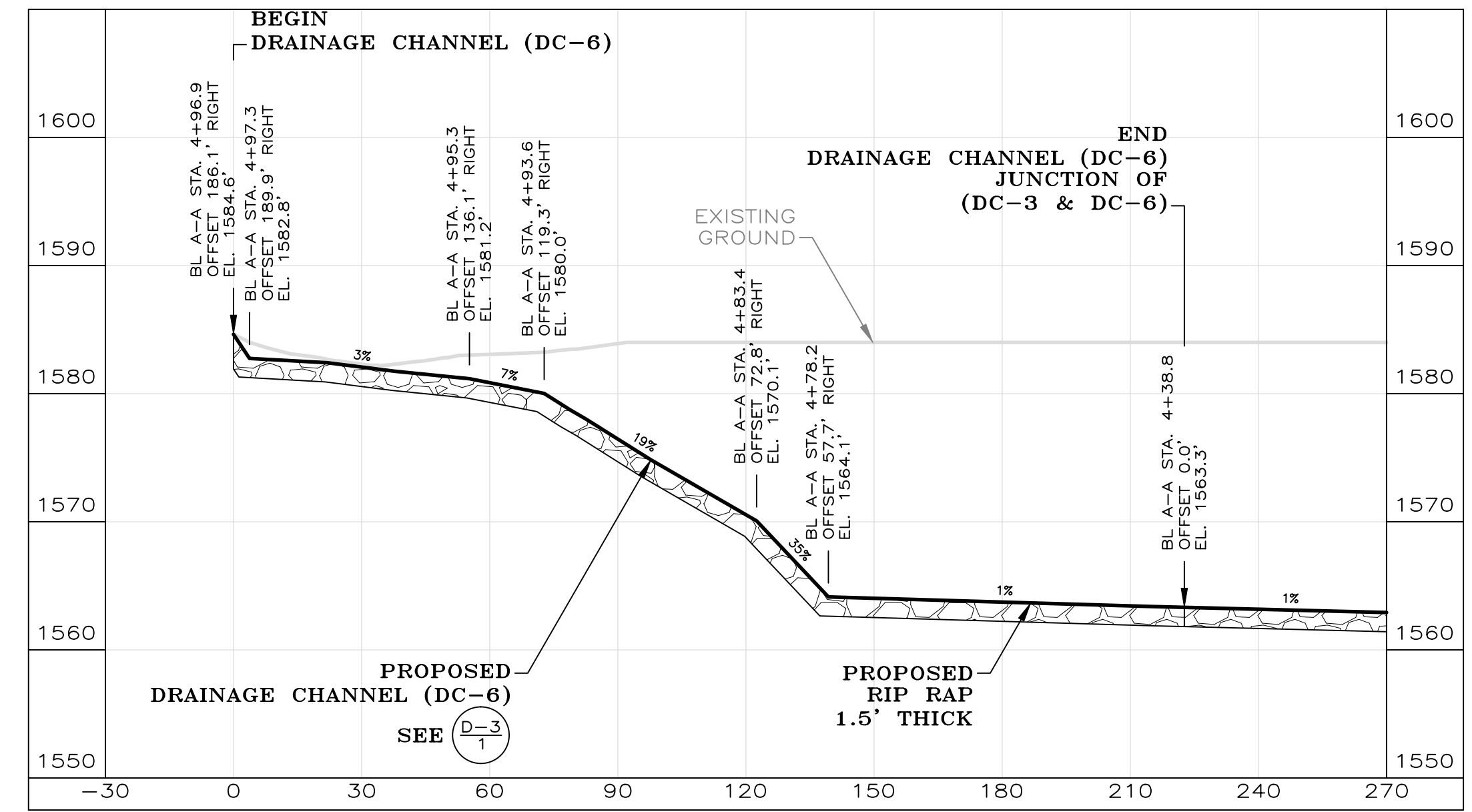
DRAINAGE CHANNEL PROFILES
 (DC-1 & DC-2)
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

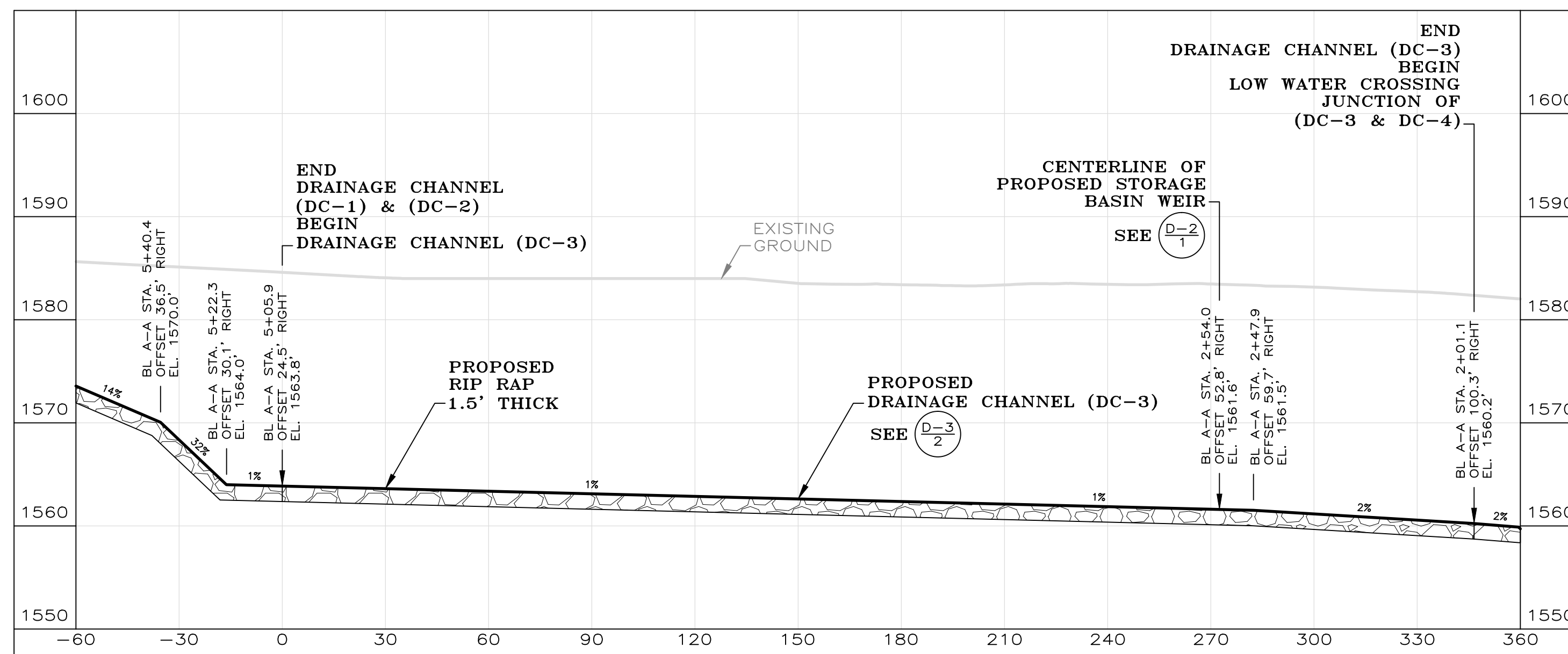
DATE
 01/27/14
 PROJECT NO.
 13106
 DRAWING NO.
 P-2



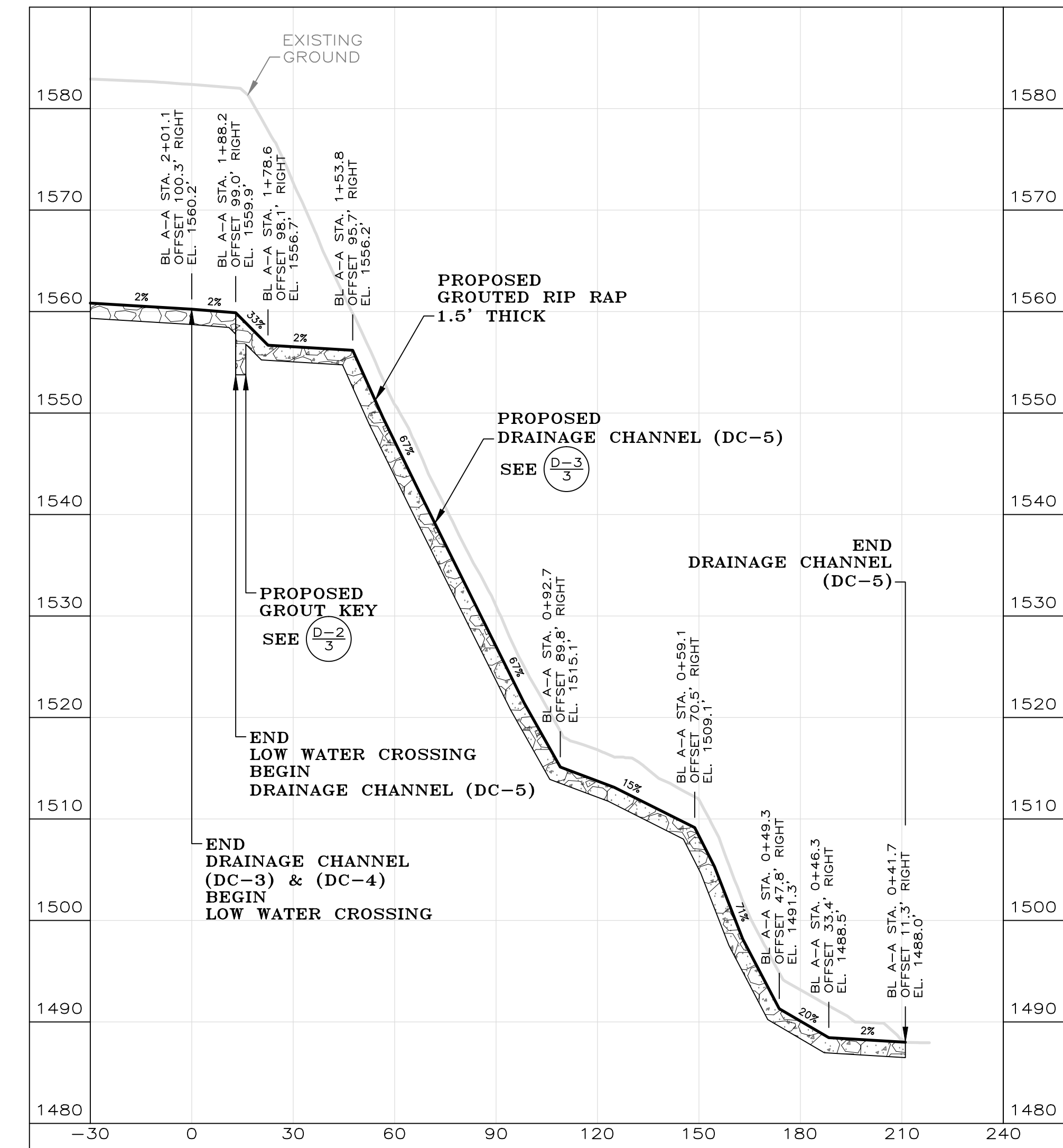
DETAIL (2)
 PROPOSED DRAINAGE CHANNEL (DC-4) PROFILE
 SCALE: H: 1" = 30', V: 1" = 10'



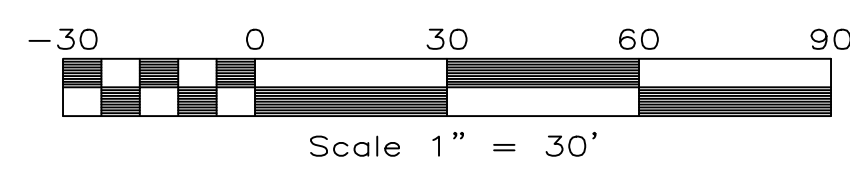
DETAIL (4)
 PROPOSED DRAINAGE CHANNEL (DC-6) PROFILE
 SCALE: H: 1" = 30', V: 1" = 10'



DETAIL (1)
 PROPOSED DRAINAGE CHANNEL (DC-3) PROFILE
 SCALE: H: 1" = 30', V: 1" = 10'



DETAIL (3)
 PROPOSED DRAINAGE CHANNEL (DC-5) PROFILE
 SCALE: H: 1" = 30', V: 1" = 10'



REVISIONS	
DATE	DESCRIPTION

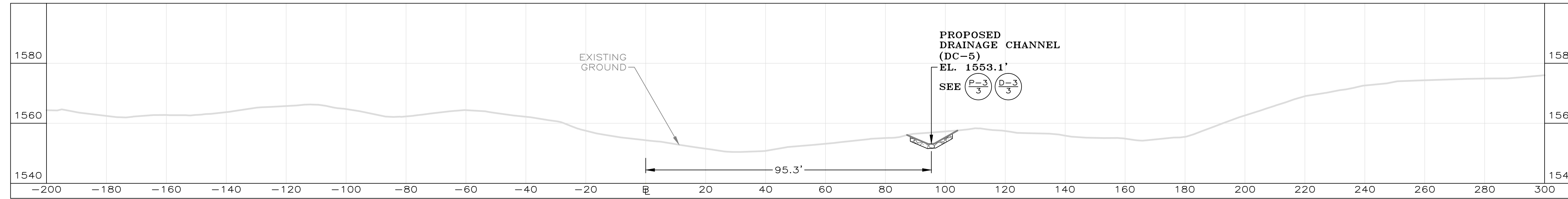
SCALE: AS SHOWN	DATE	BY
DRAWN BY: CCA		
CHECKED BY: MEP		

AML & R
WDEP

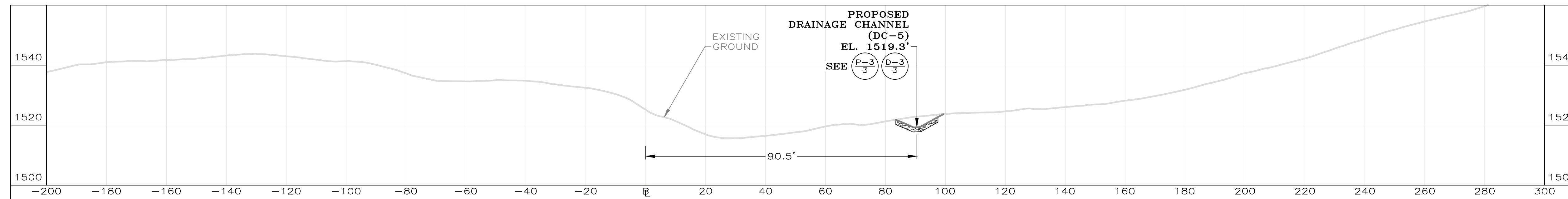
DRAINAGE CHANNEL PROFILES (DC-3, DC-4, DC-5 & DC-6)
LITTLE DAYCAMP BRANCH REFUSE
MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
HURRICANE, WEST VIRGINIA

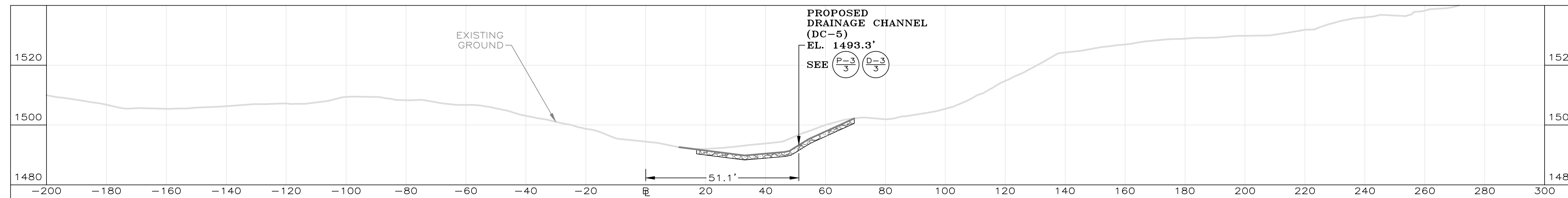
DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	P-3



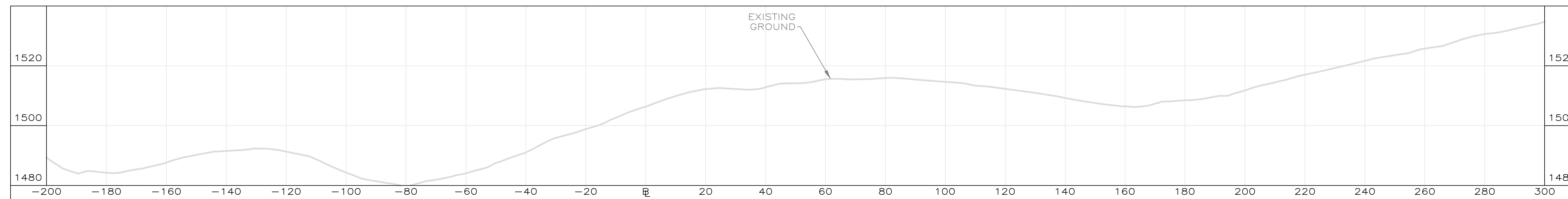
DETAIL (4)
BASELINE A-A STATION 1+50
SCALE: 1" = 20'



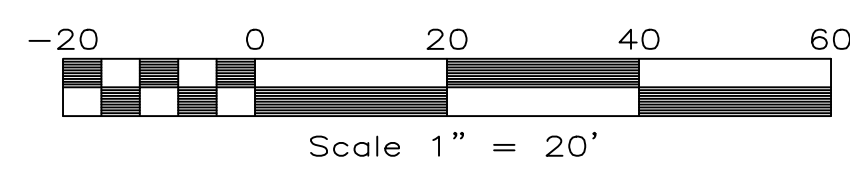
DETAIL (3)
BASELINE A-A STATION 1+00
SCALE: 1" = 20'



DETAIL (2)
BASELINE A-A STATION 0+50
SCALE: 1" = 20'



DETAIL (1)
BASELINE A-A STATION 0+00
SCALE: 1" = 20'



REVISIONS	
DATE	DESCRIPTION

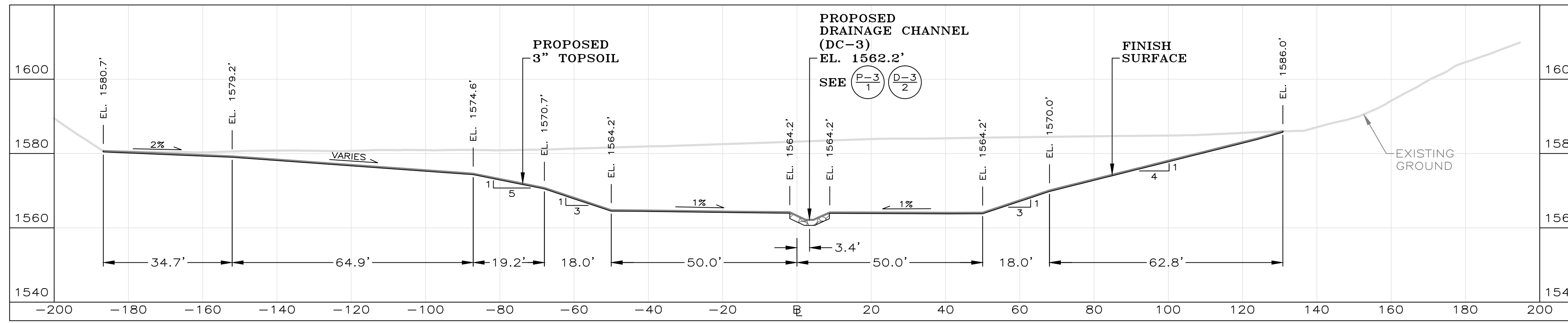
SCALE: AS SHOWN
DRAWN BY: CCA
CHECKED BY: MEP

AML & R
WDEP

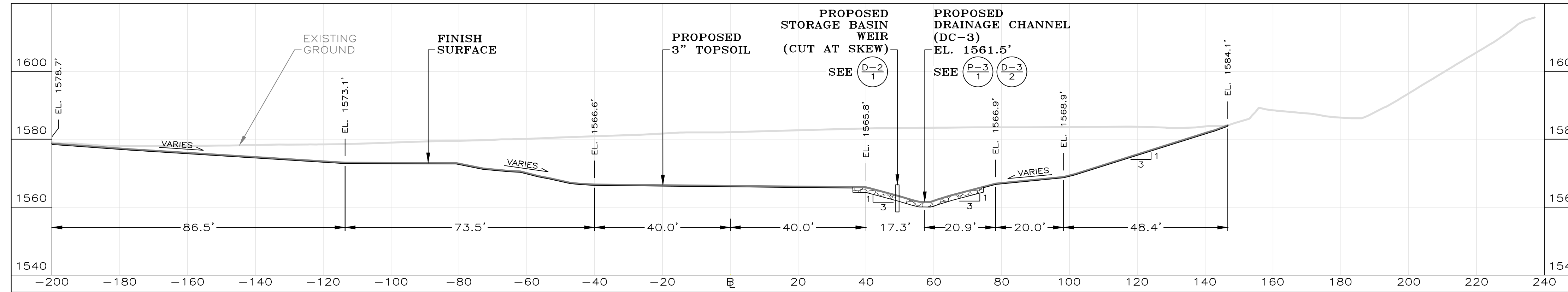
BASELINE A-A SECTIONS
STA. 0+00 - STA. 1+50
LITTLE DAYCAMP BRANCH REFUSE
MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
HURRICANE, WEST VIRGINIA

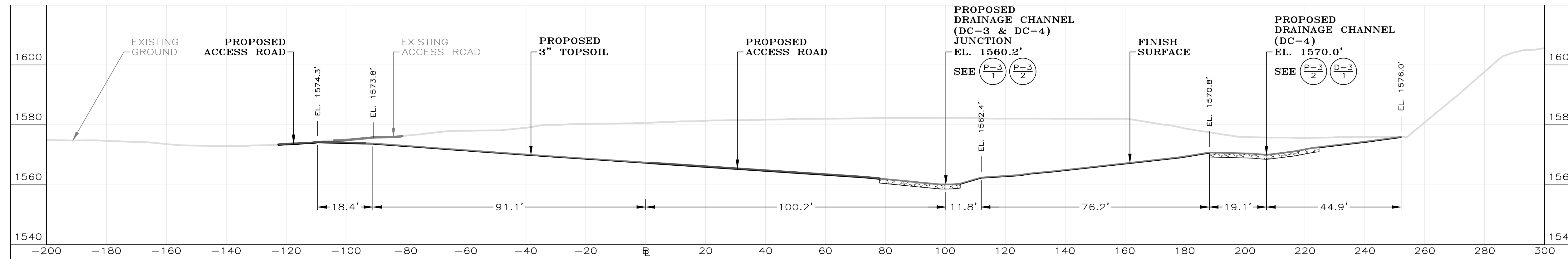
DATE
01/27/14
PROJECT NO.
13106
DRAWING NO.
S-1



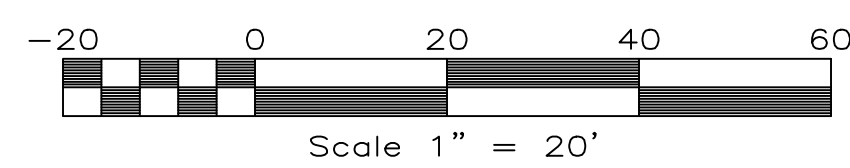
DETAIL (3)
BASELINE A-A STATION 3+00
SCALE: 1" = 20'



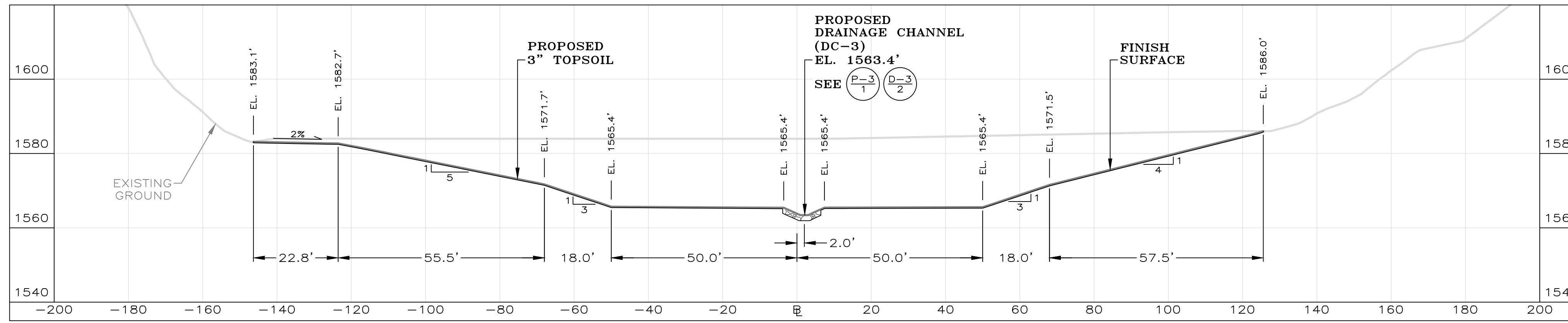
DETAIL (2)
BASELINE A-A STATION 2+50
SCALE: 1" = 20'



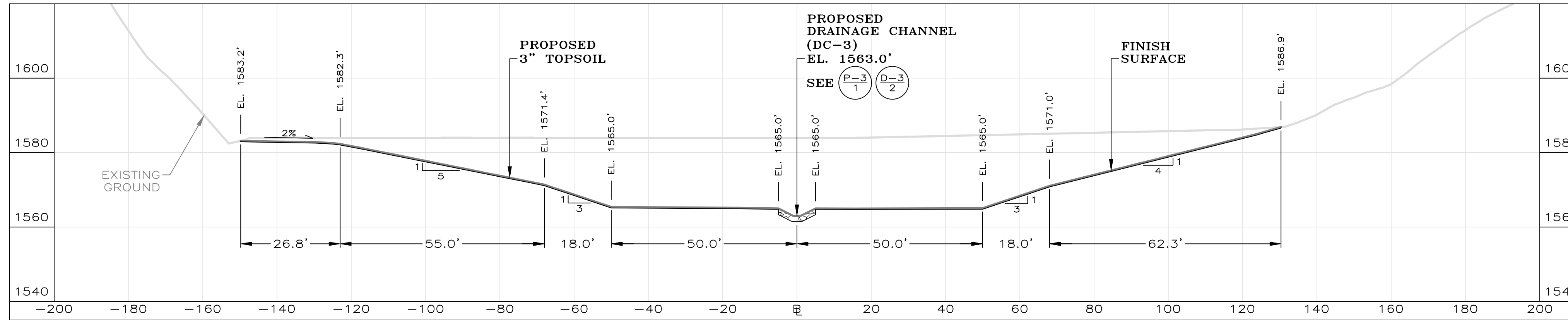
DETAIL (1)
BASELINE A-A STATION 2+00
SCALE: 1" = 20'



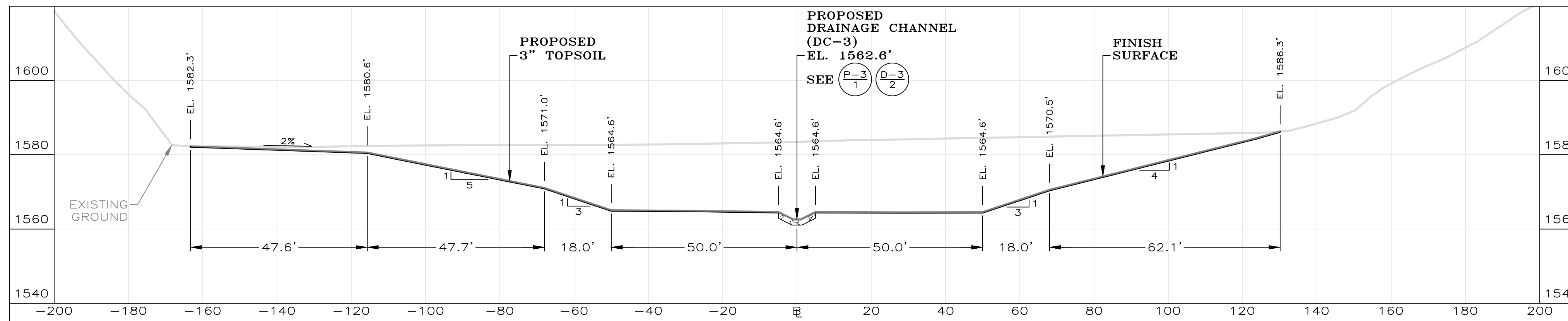
REVISIONS	DATE	BY	DESCRIPTION
SCALE: AS SHOWN	DRAWN BY: CCA		
	CHECKED BY: MEP		
AML & R			
WDEP			
BASELINE A-A SECTIONS STA. 2+00 - STA. 3+00 LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA			
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA			
DATE	01/27/14		
PROJECT NO.	13106		
DRAWING NO.	S-2		



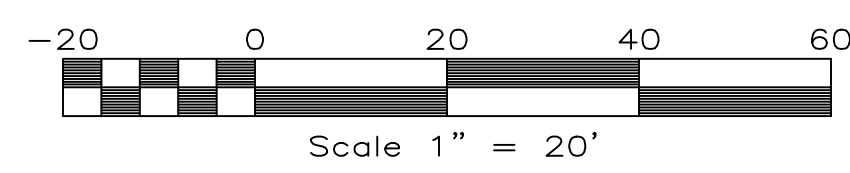
DETAIL (3)
BASELINE A-A STATION 4+50
SCALE: 1" = 20'



DETAIL (2)
BASELINE A-A STATION 4+00
SCALE: 1" = 20'



DETAIL (1)
BASELINE A-A STATION 3+50
SCALE: 1" = 20'



REVISIONS	
DATE	DESCRIPTION

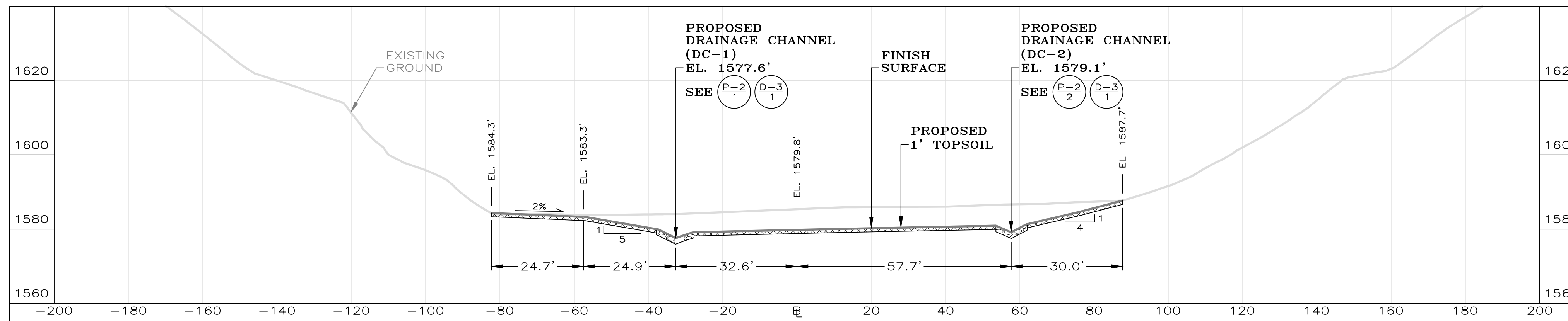
SCALE: AS SHOWN
DRAWN BY: CCA
CHECKED BY: MEP

AML & R
WDEP

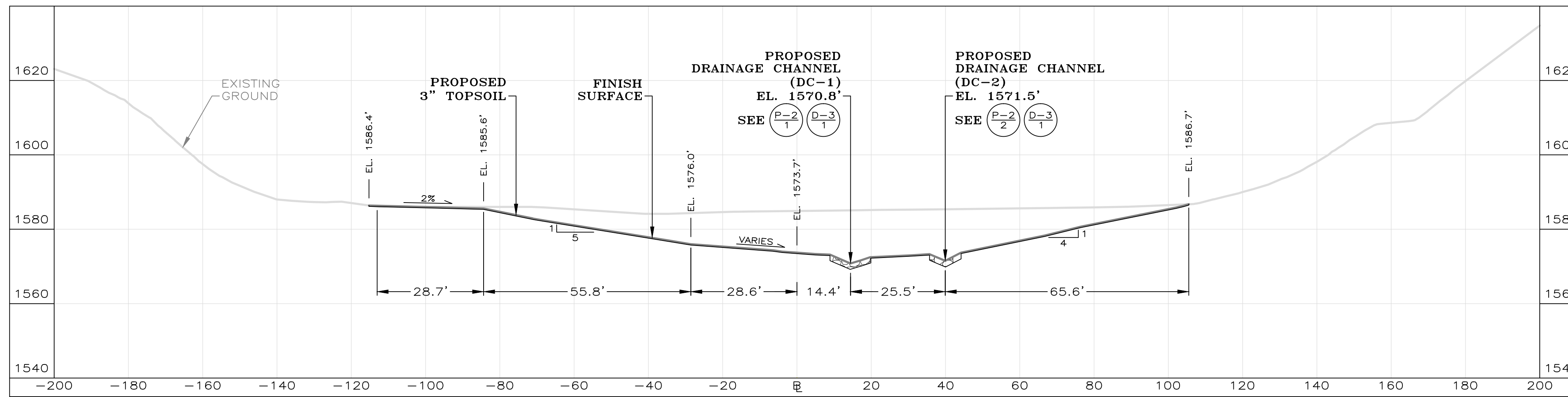
BASELINE A-A SECTIONS
STA. 3+50 - STA. 4+50
LITTLE DAYCAMP BRANCH REFUSE
MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
HURRICANE, WEST VIRGINIA

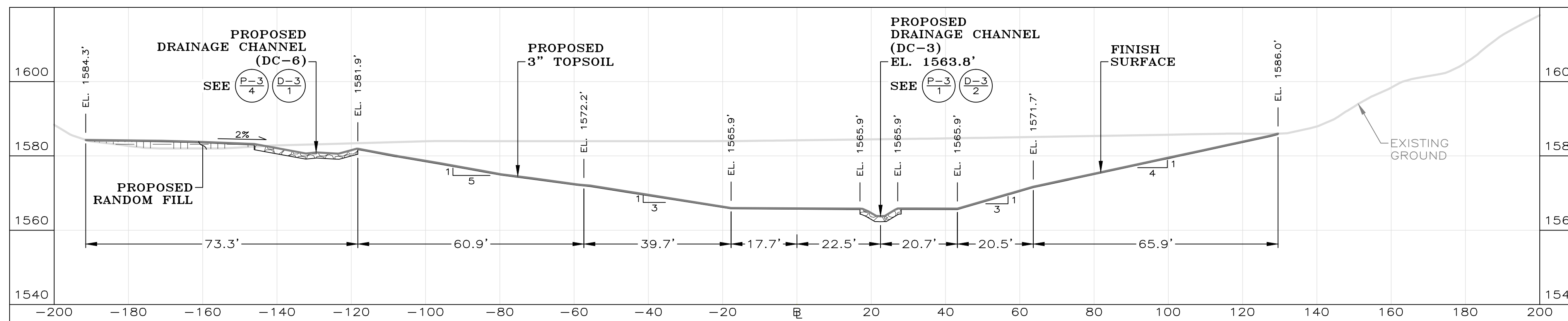
DATE
01/27/14
PROJECT NO.
13106
DRAWING NO.
S-3



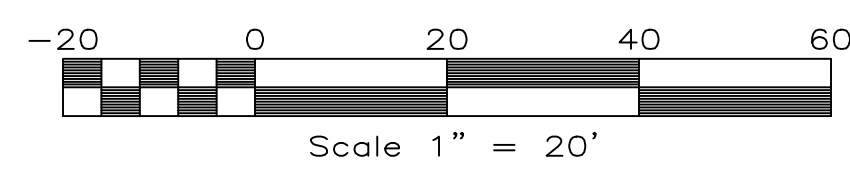
DETAIL (3)
BASELINE A-A STATION 6+00
 SCALE: 1" = 20'



DETAIL (2)
BASELINE A-A STATION 5+50
 SCALE: 1" = 20'



DETAIL (1)
BASELINE A-A STATION 5+00
 SCALE: 1" = 20'



REVISIONS

DATE	BY	DESCRIPTION

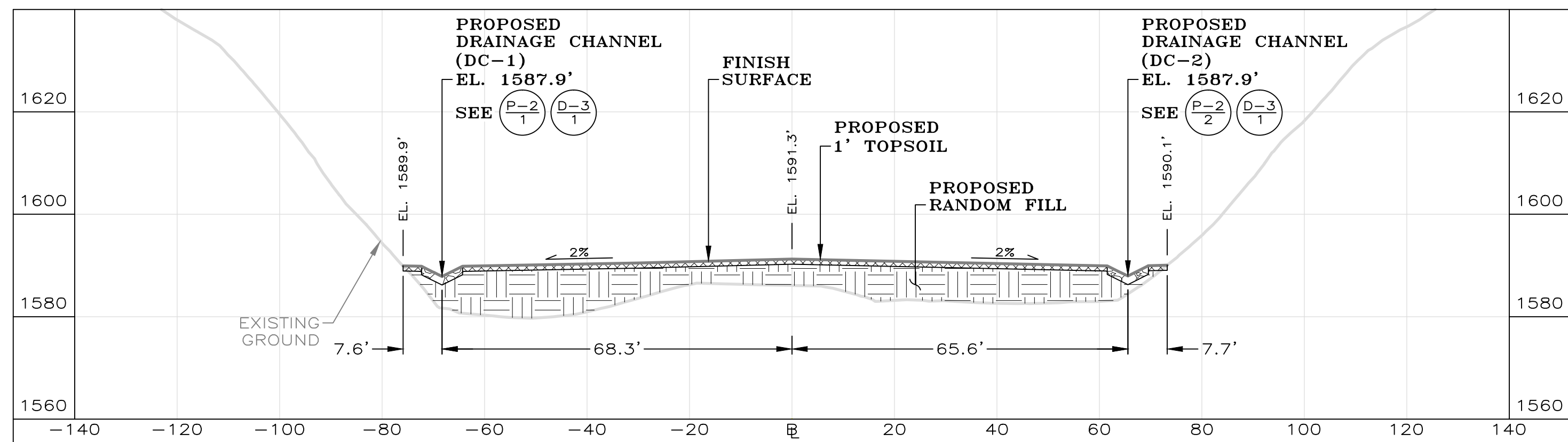
SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: MEP

AML & R
 WDEP

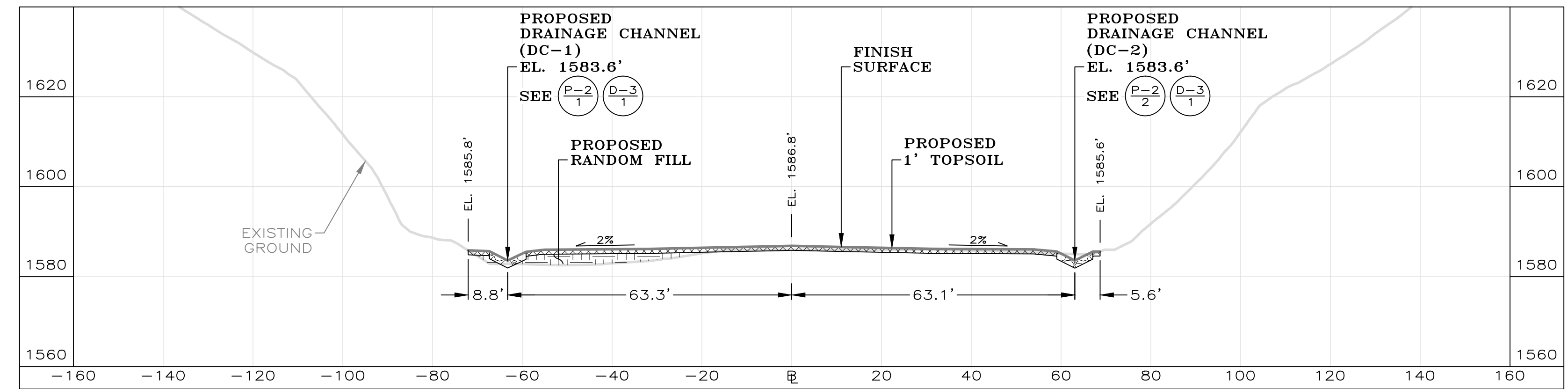
BASELINE A-A SECTIONS
 STA. 5+00 - STA. 6+00
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

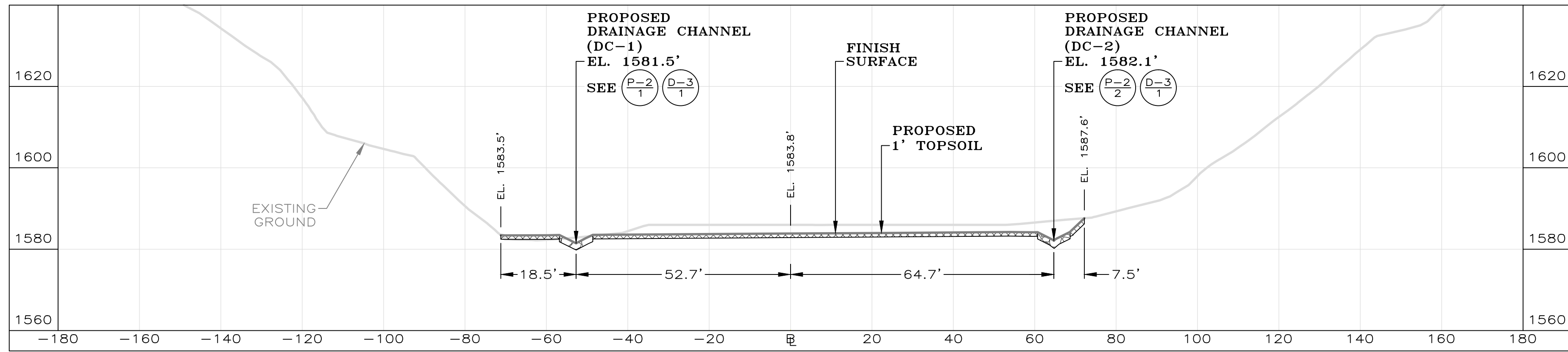
DATE
 01/27/14
 PROJECT NO.
 13106
 DRAWING NO.
 S-4



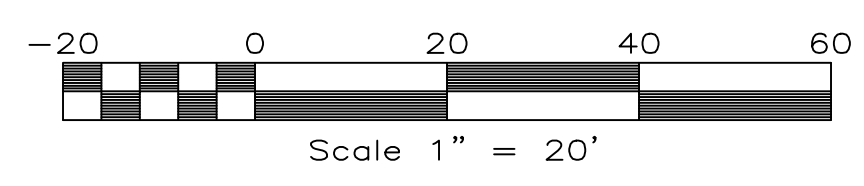
DETAIL (3)
BASELINE A-A STATION 7+50
 SCALE: 1" = 20'



DETAIL (2)
BASELINE A-A STATION 7+00
 SCALE: 1" = 20'



DETAIL (1)
BASELINE A-A STATION 6+50
 SCALE: 1" = 20'



REVISIONS	
DATE	DESCRIPTION

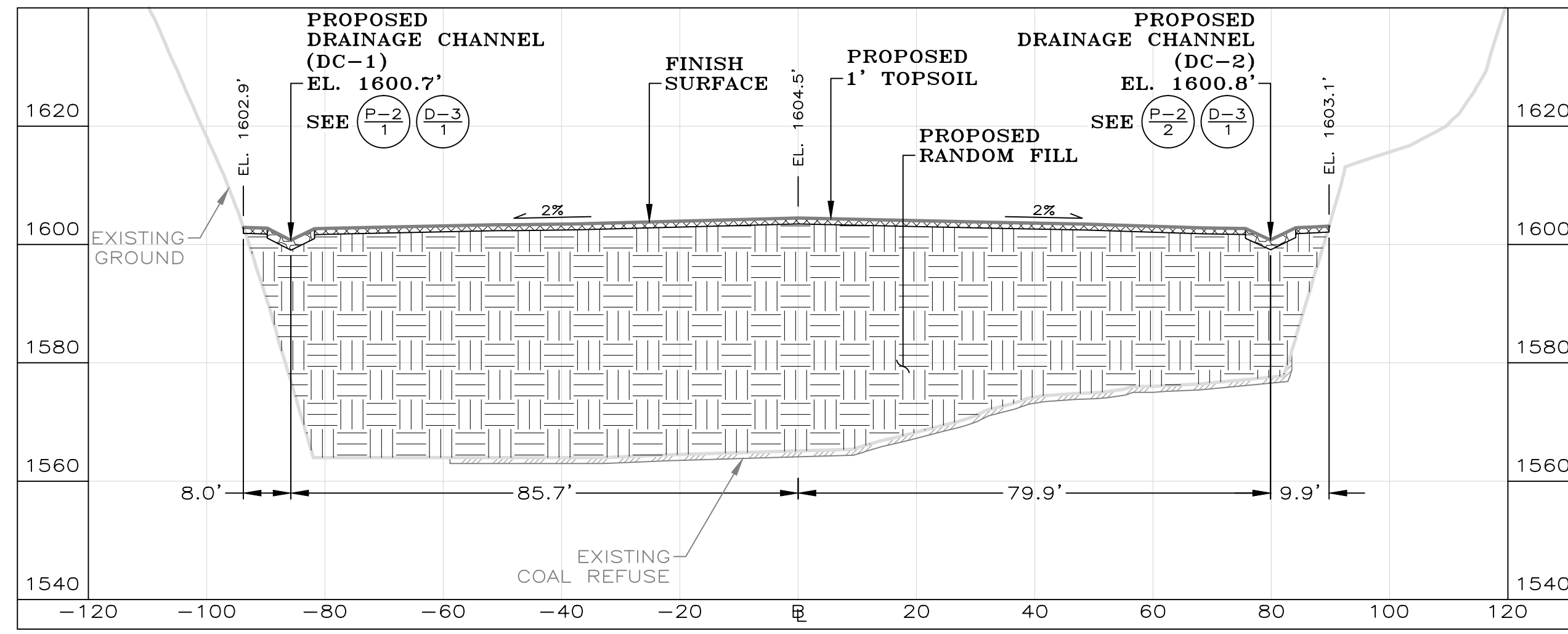
SCALE: AS SHOWN	BY: CCA
DRAWN BY: CCA	CHECKED BY: MEP

AML & R	WDEP
---------	------

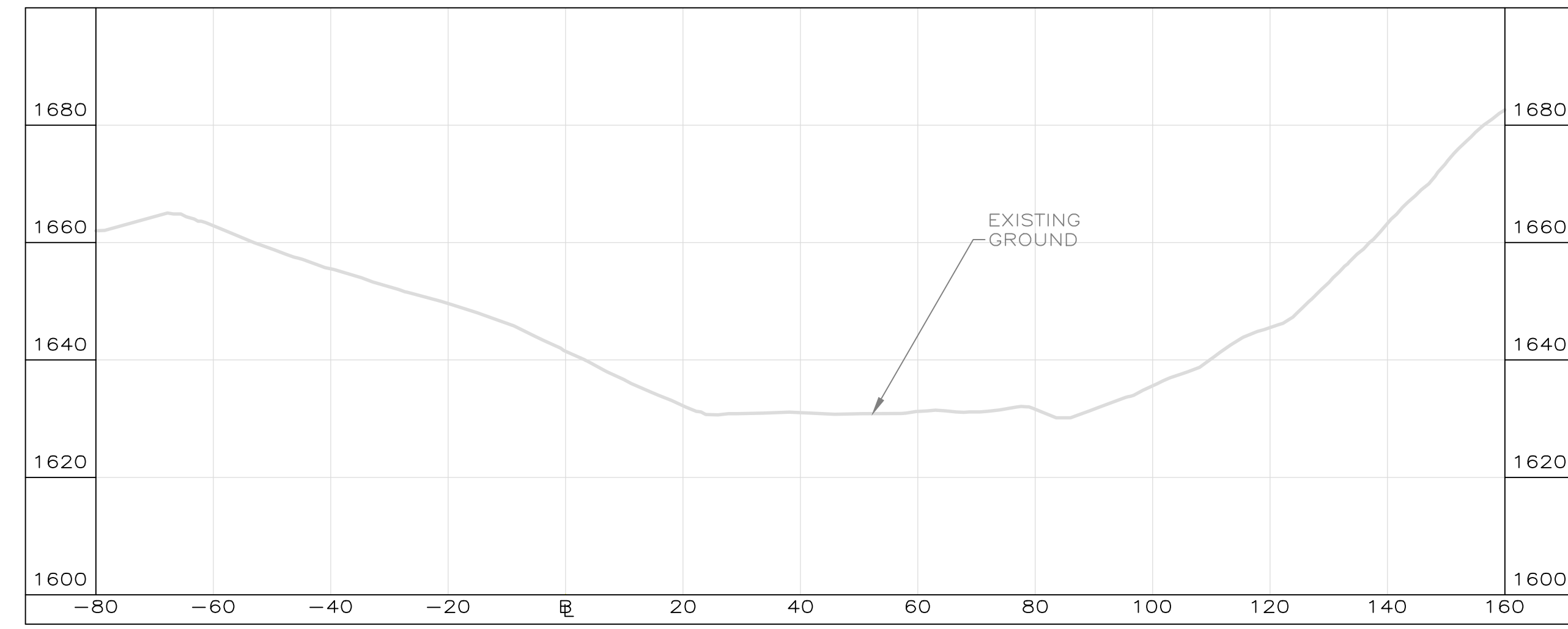
BASELINE A-A SECTIONS STA. 6+50 - STA. 7+50 LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA
--

CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA
--

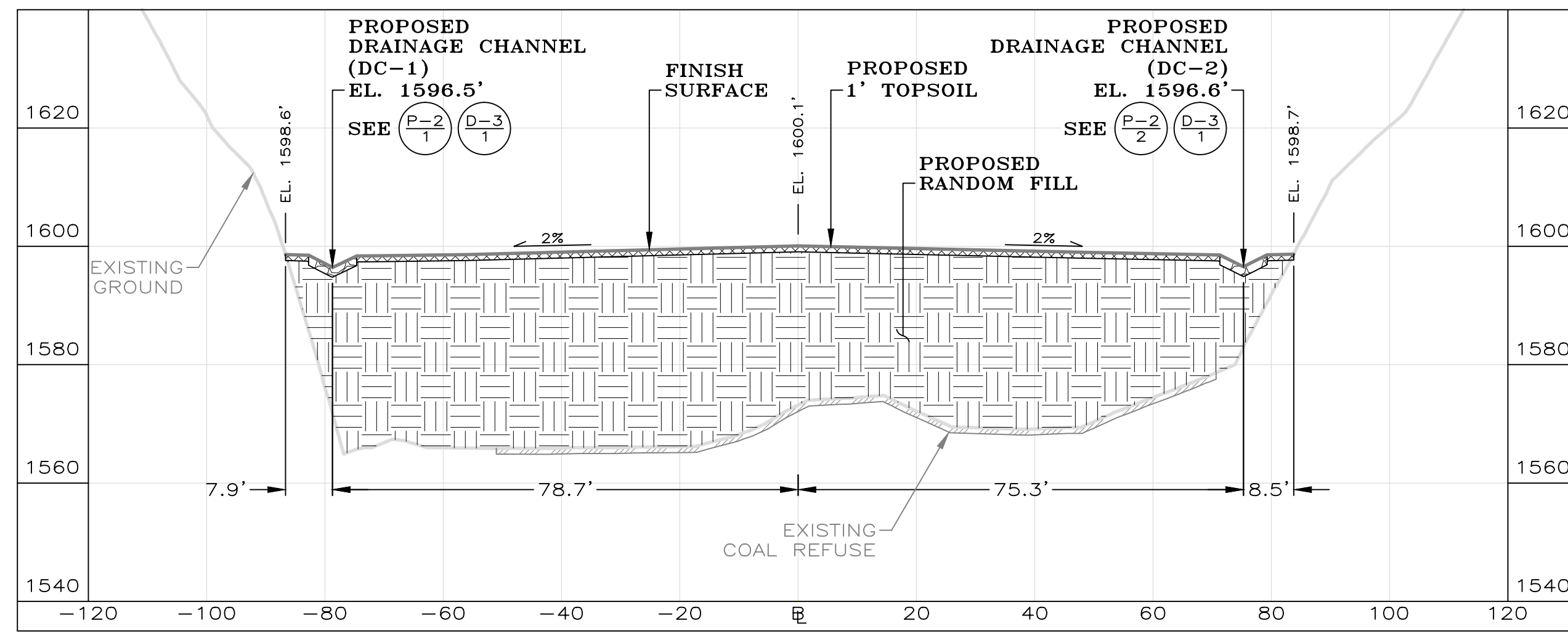
DATE 01/27/14
PROJECT NO. 13106
DRAWING NO. S-5



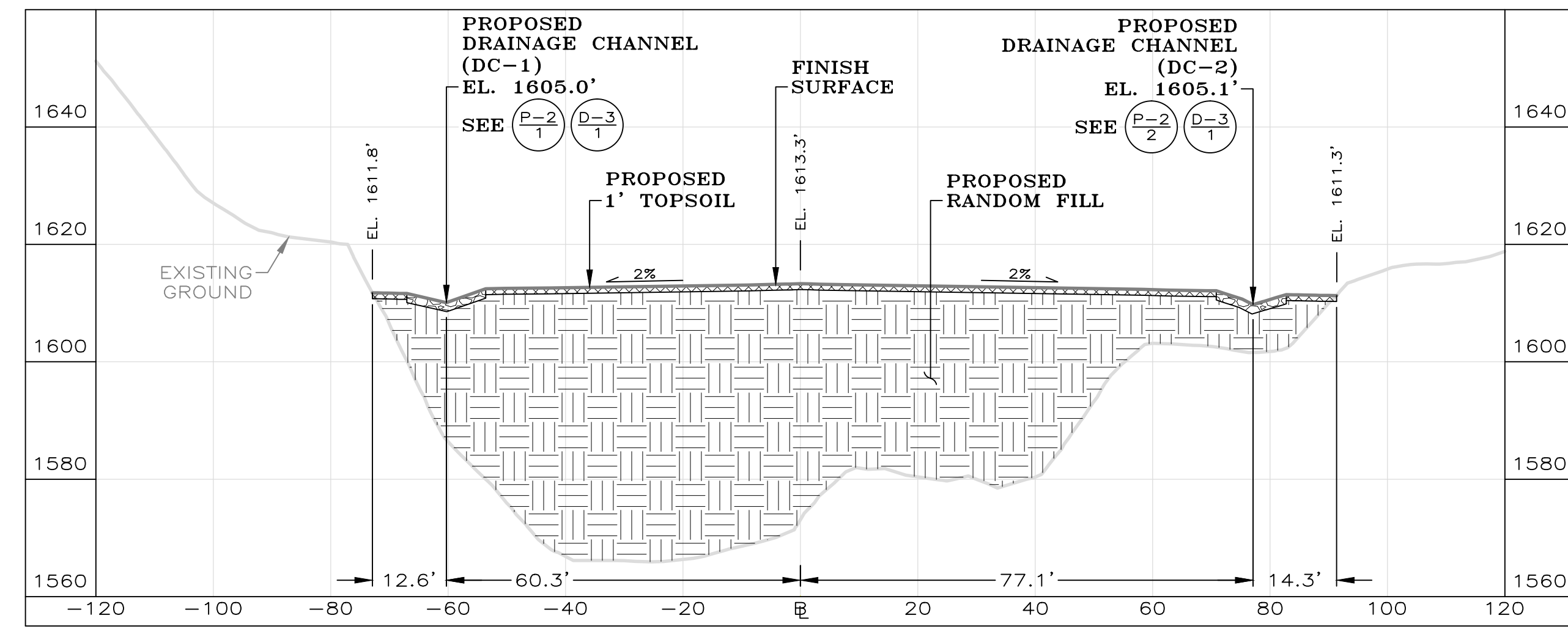
DETAIL (3)
BASELINE A-A STATION 9+00
 SCALE: 1" = 20'



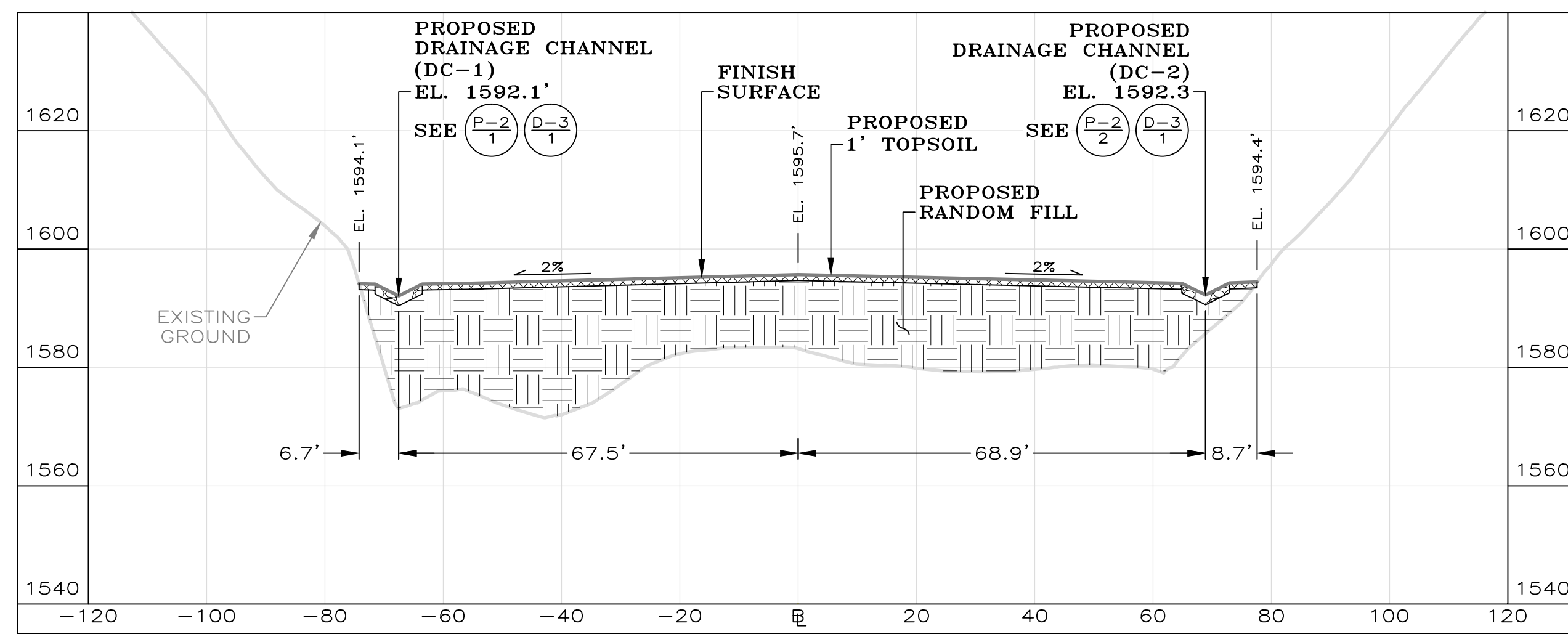
DETAIL (6)
BASELINE A-A STATION 10+50
 SCALE: 1" = 20'



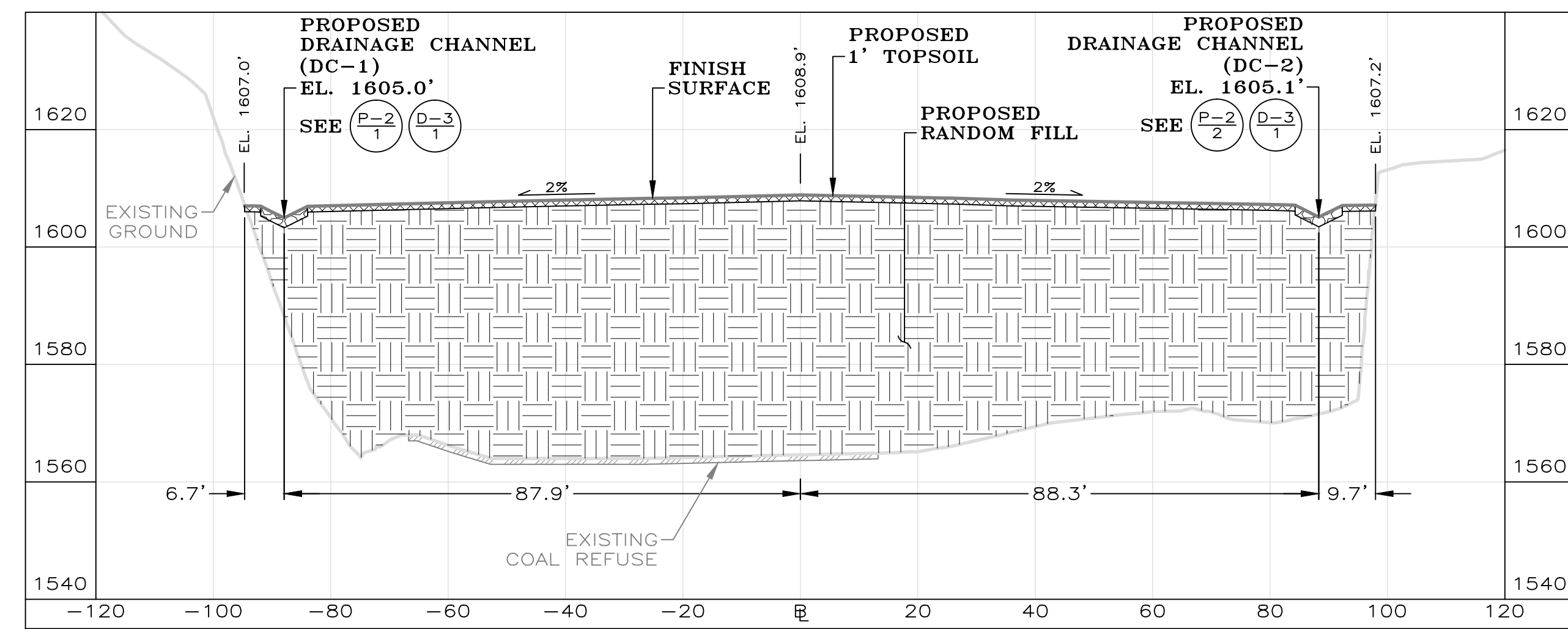
DETAIL (2)
BASELINE A-A STATION 8+50
 SCALE: 1" = 20'



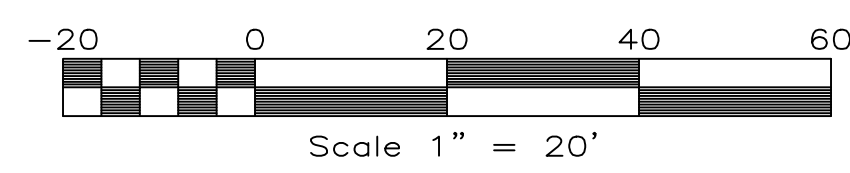
DETAIL (5)
BASELINE A-A STATION 10+00
 SCALE: 1" = 20'



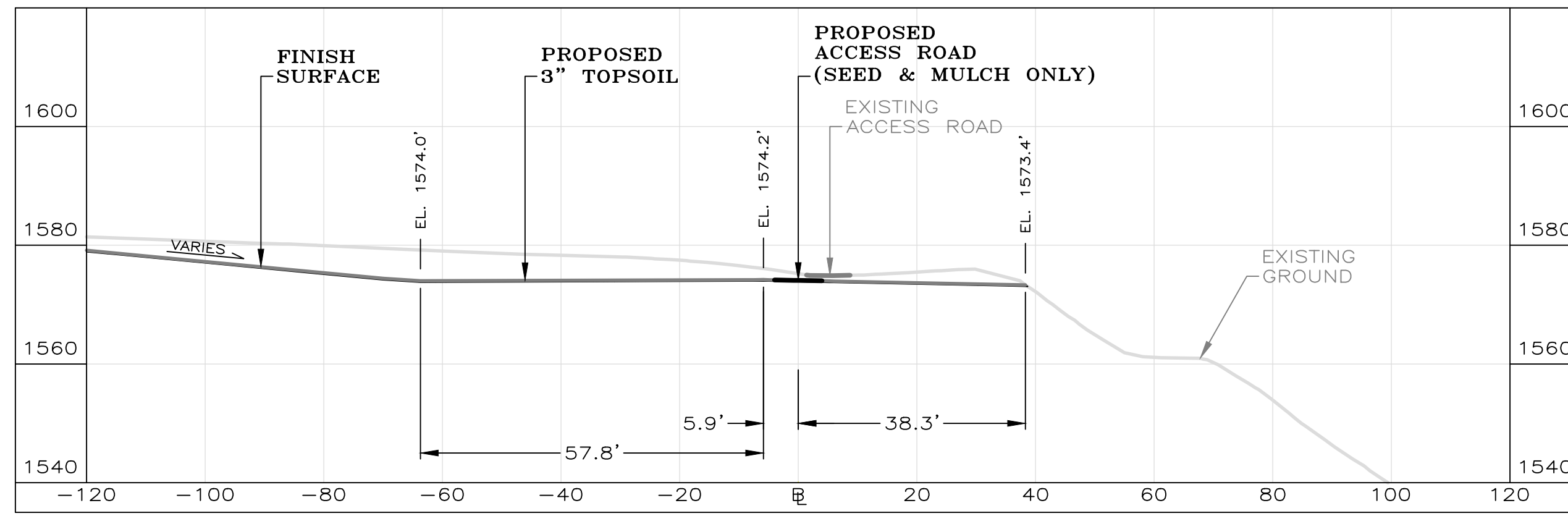
DETAIL (1)
BASELINE A-A STATION 8+00
 SCALE: 1" = 20'



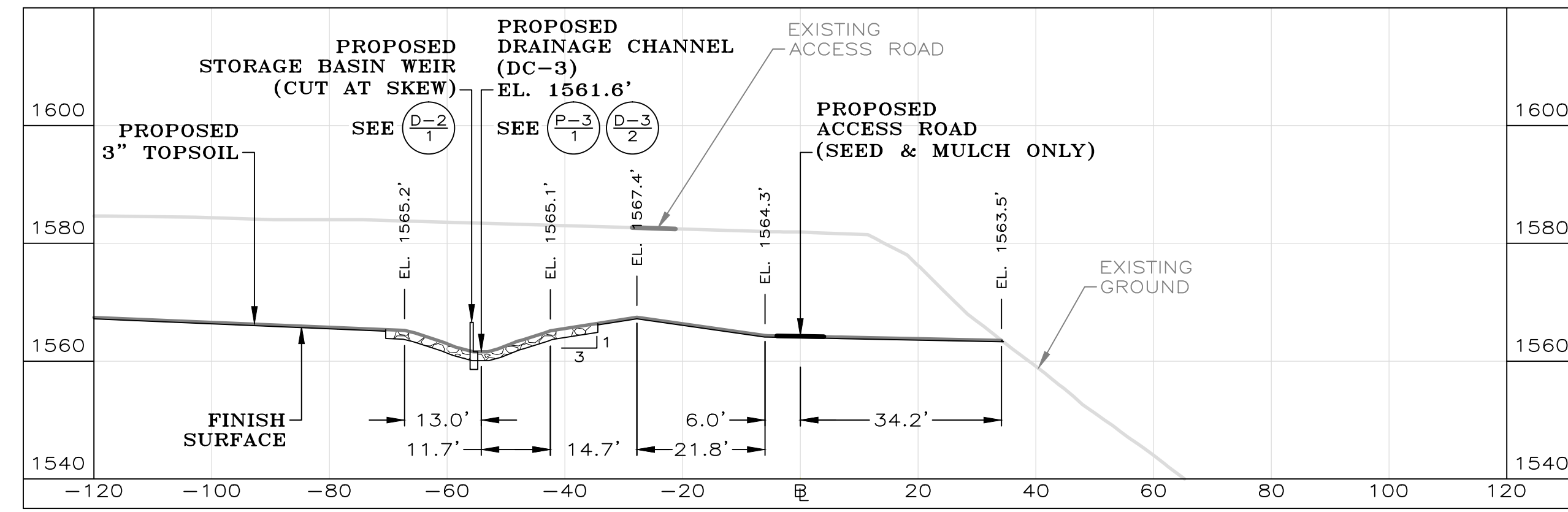
DETAIL (4)
BASELINE A-A STATION 9+50
 SCALE: 1" = 20'



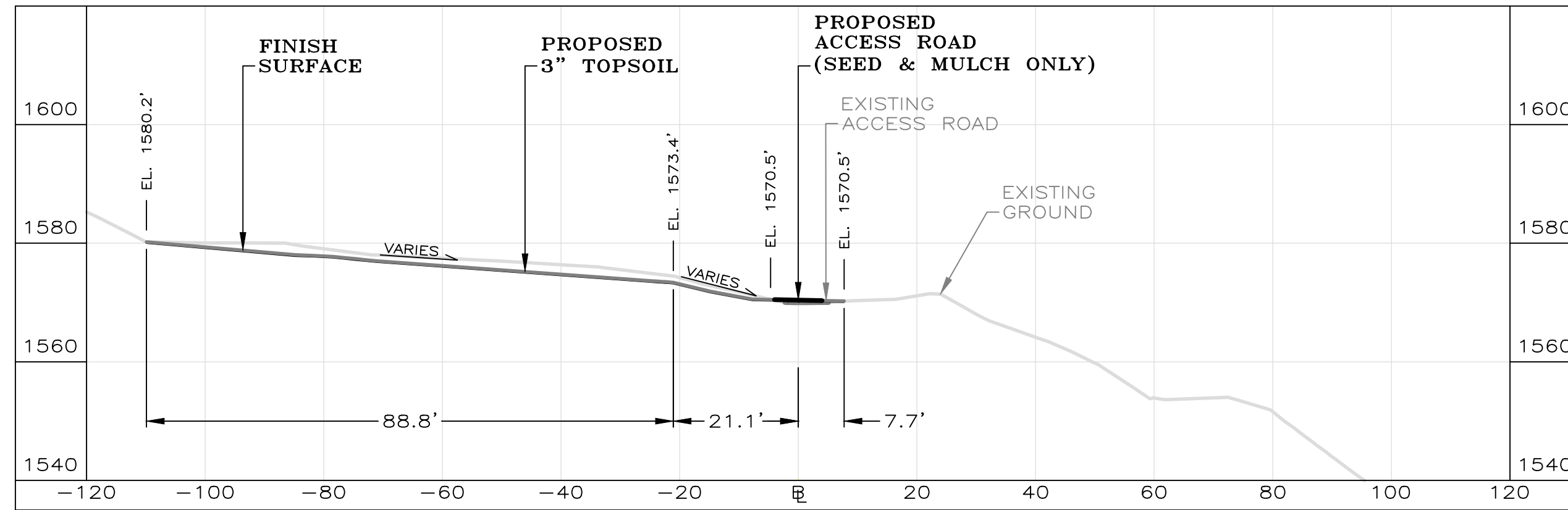
REVISIONS	DATE	DESCRIPTION
SCALE: AS SHOWN	DRAWN BY: CCA	CHECKED BY: MEP
AML & R WDEP		
BASELINE A-A SECTIONS STA. 8+00 - STA. 10+50 LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA		
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA		
DATE	01/27/14	
PROJECT NO.	13106	
DRAWING NO.	S-6	



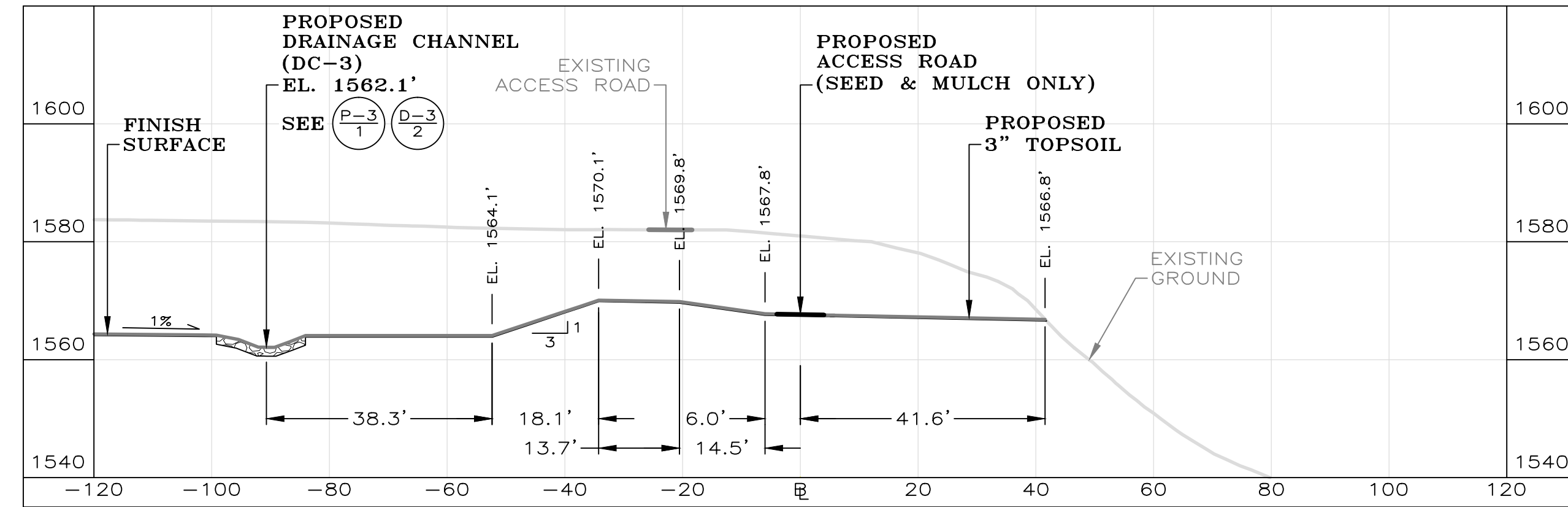
DETAIL (3)
BASELINE B-B STATION 1+00
 SCALE: 1" = 20'



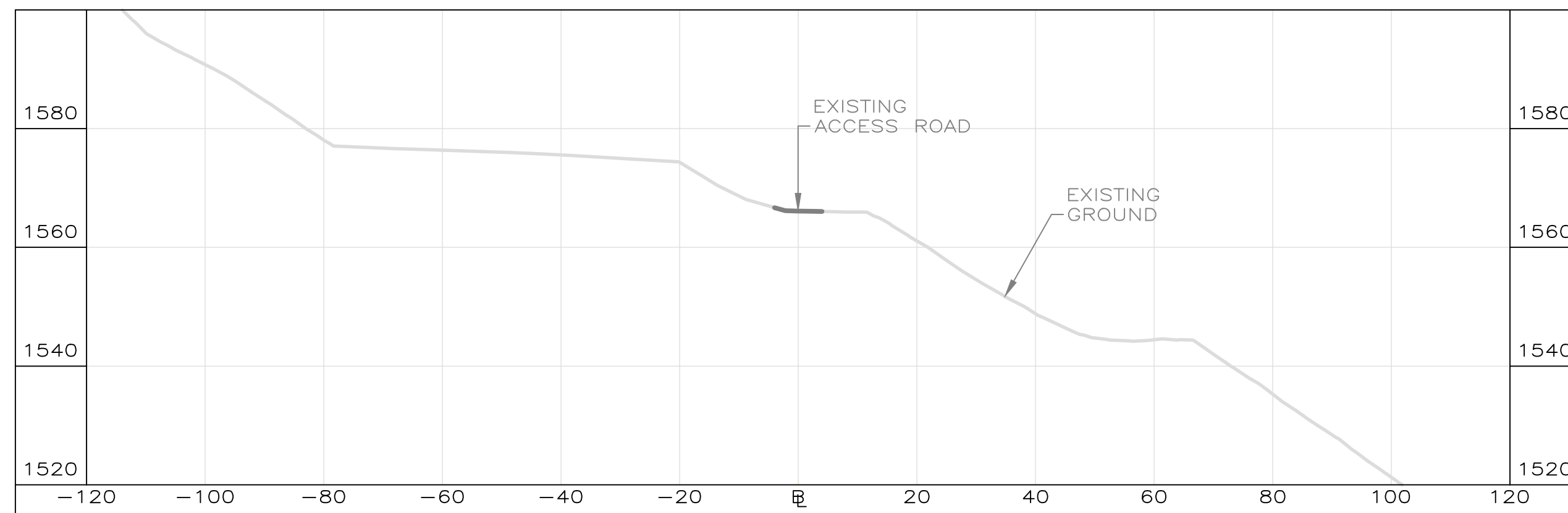
DETAIL (6)
BASELINE B-B STATION 2+50
 SCALE: 1" = 20'



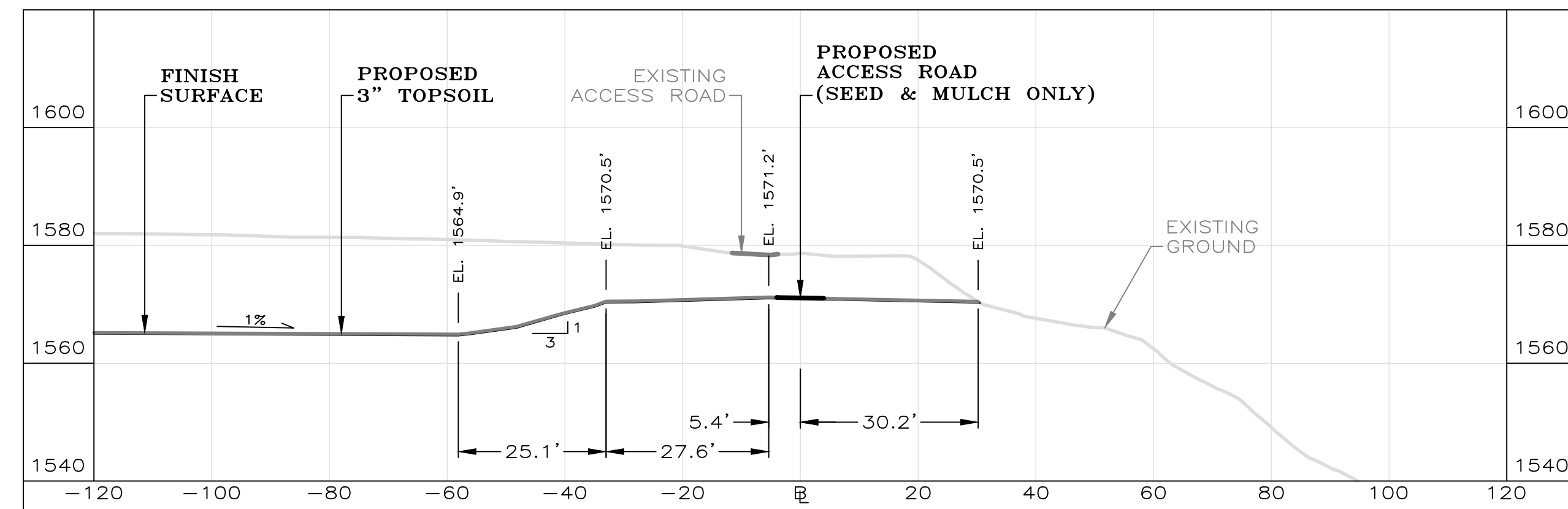
DETAIL (2)
BASELINE B-B STATION 0+50
 SCALE: 1" = 20'



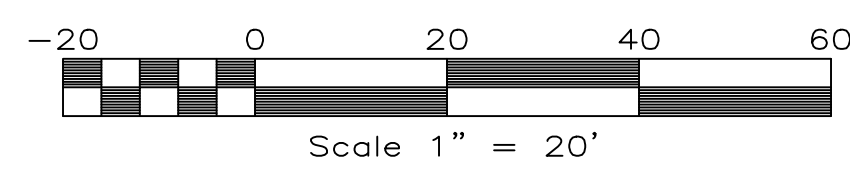
DETAIL (5)
BASELINE B-B STATION 2+00
 SCALE: 1" = 20'



DETAIL (1)
BASELINE B-B STATION 0+00
 SCALE: 1" = 20'



DETAIL (4)
BASELINE B-B STATION 1+50
 SCALE: 1" = 20'



REVISIONS	
DATE	DESCRIPTION

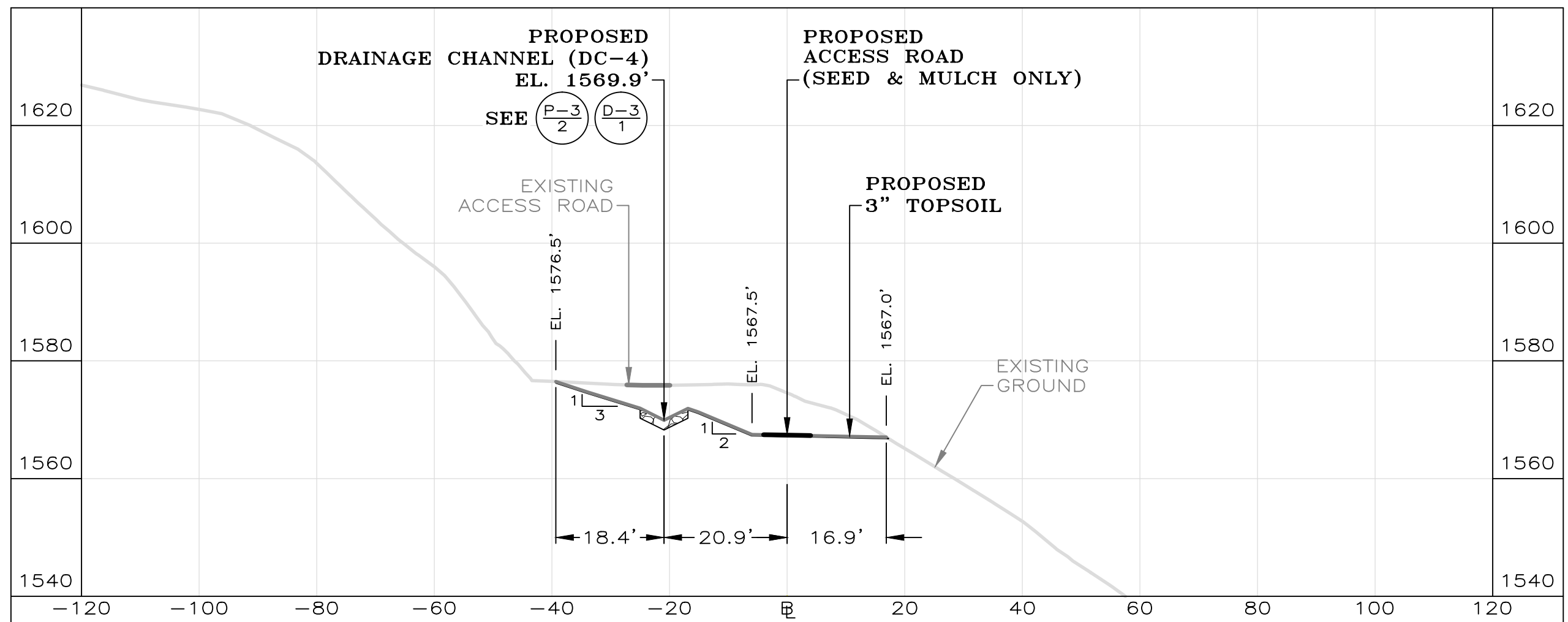
SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: MEP

AML & R
 WDEP

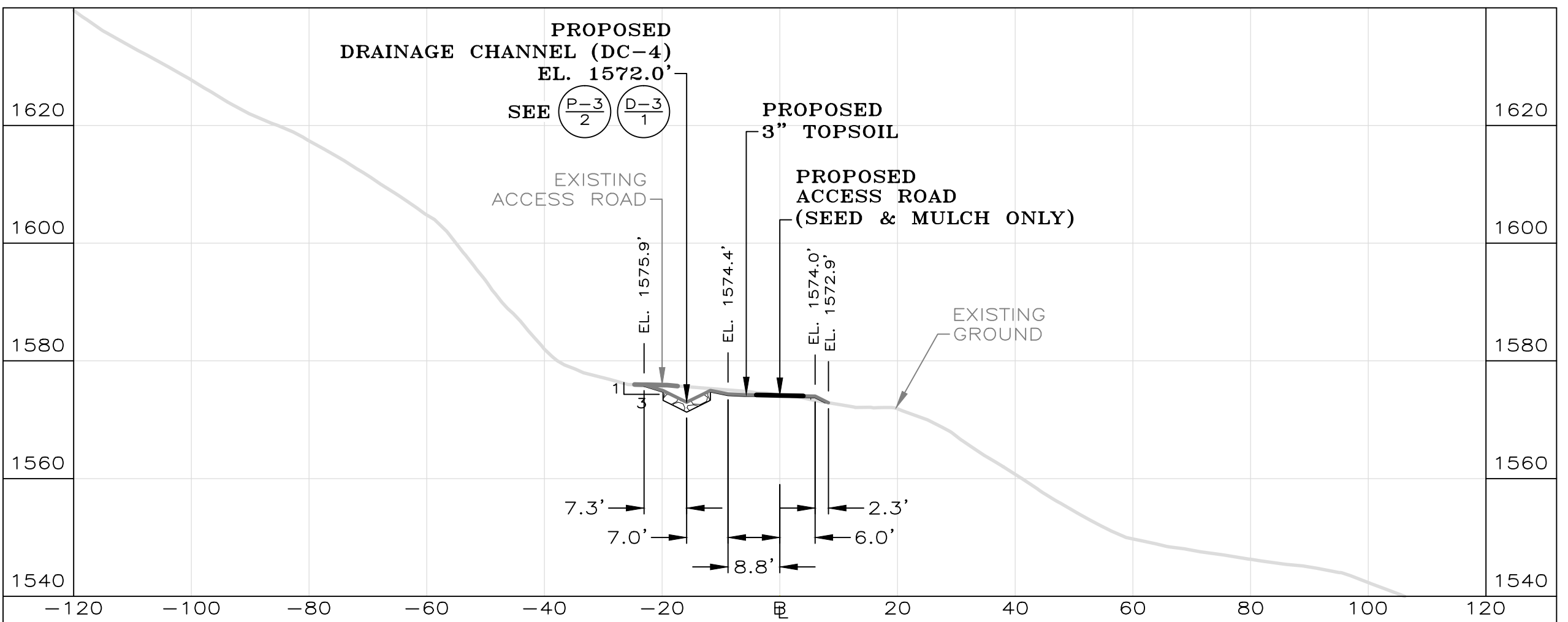
BASELINE B-B SECTIONS
 STA. 0+00 - STA. 2+50
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

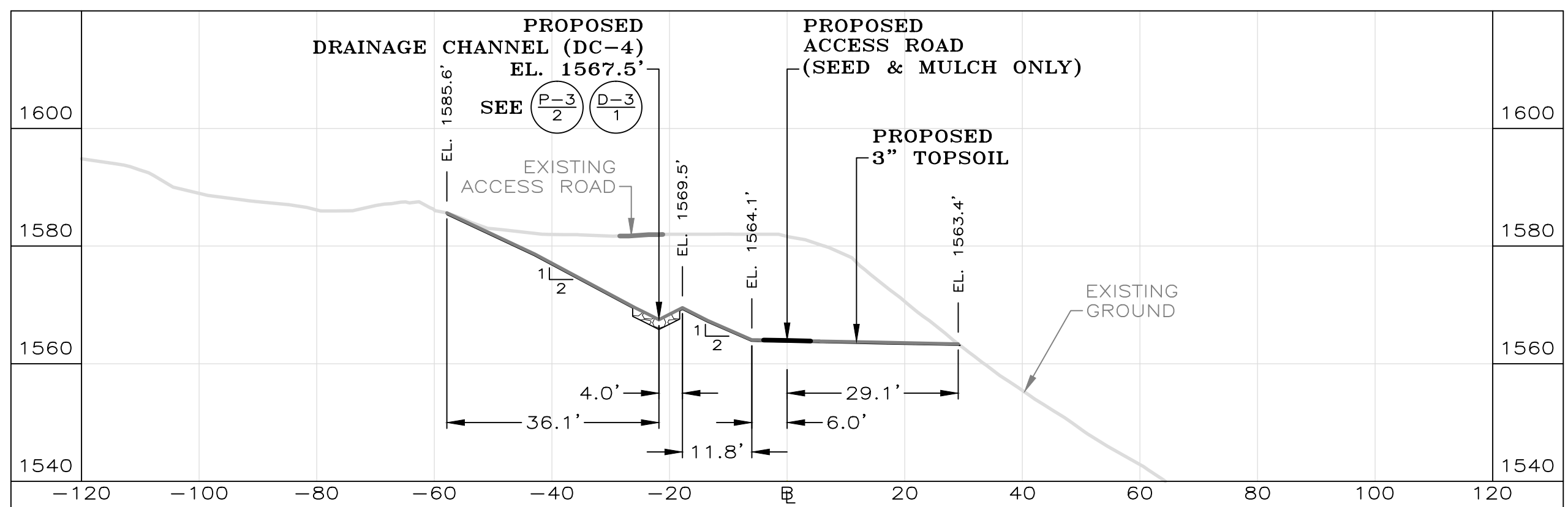
DATE
 01/27/14
 PROJECT NO.
 13106
 DRAWING NO.
 S-7



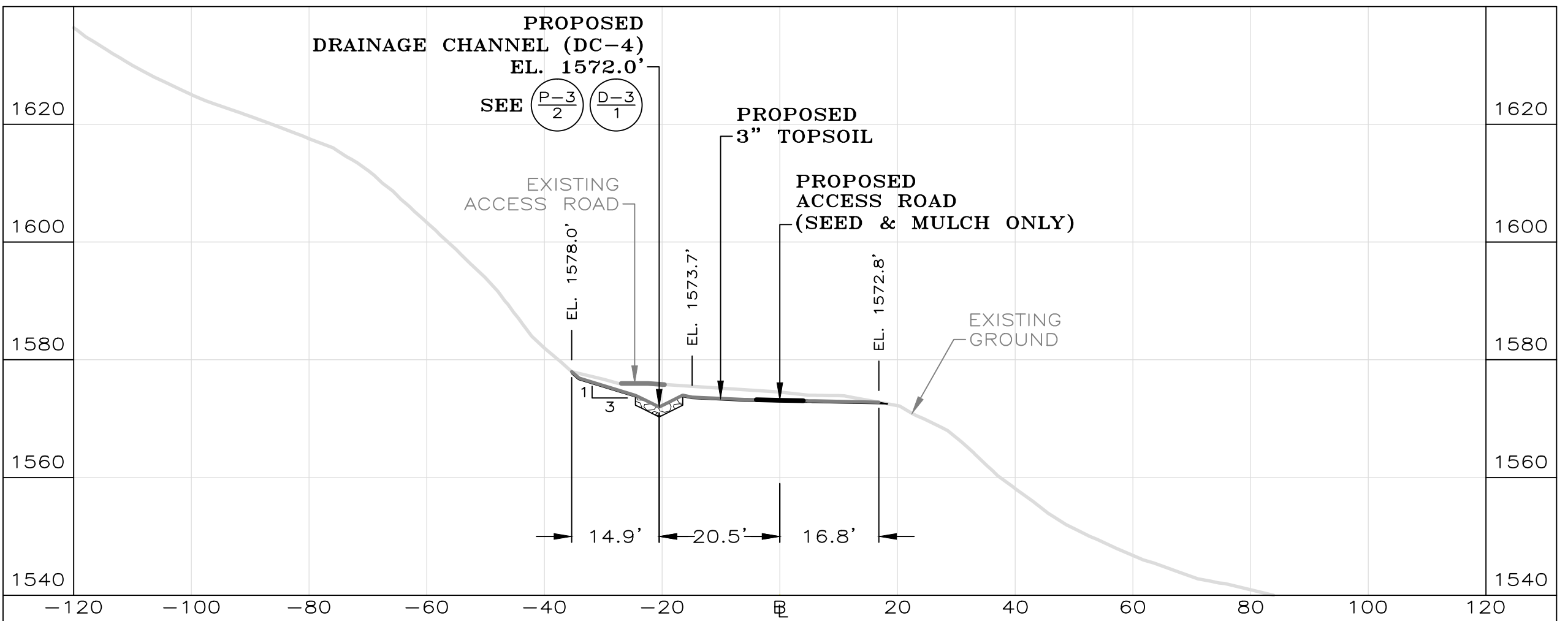
DETAIL (3)
BASELINE B-B STATION 4+00
 SCALE: 1" = 20'



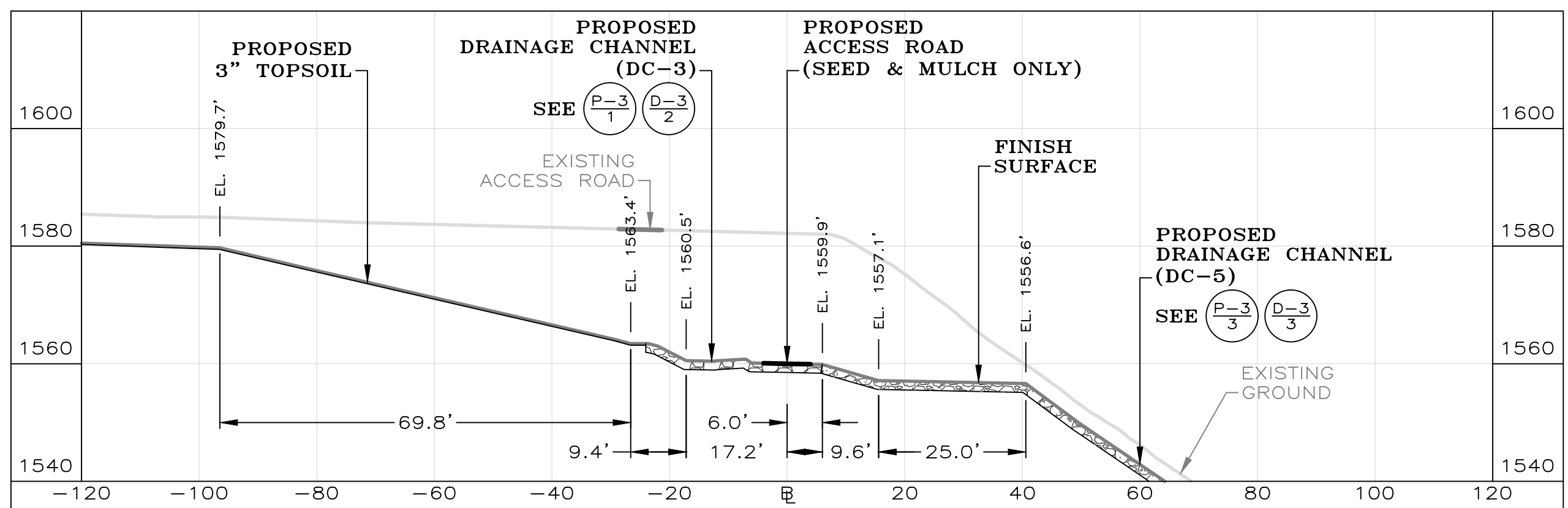
DETAIL (6)
BASELINE B-B STATION 5+50
 SCALE: 1" = 20'



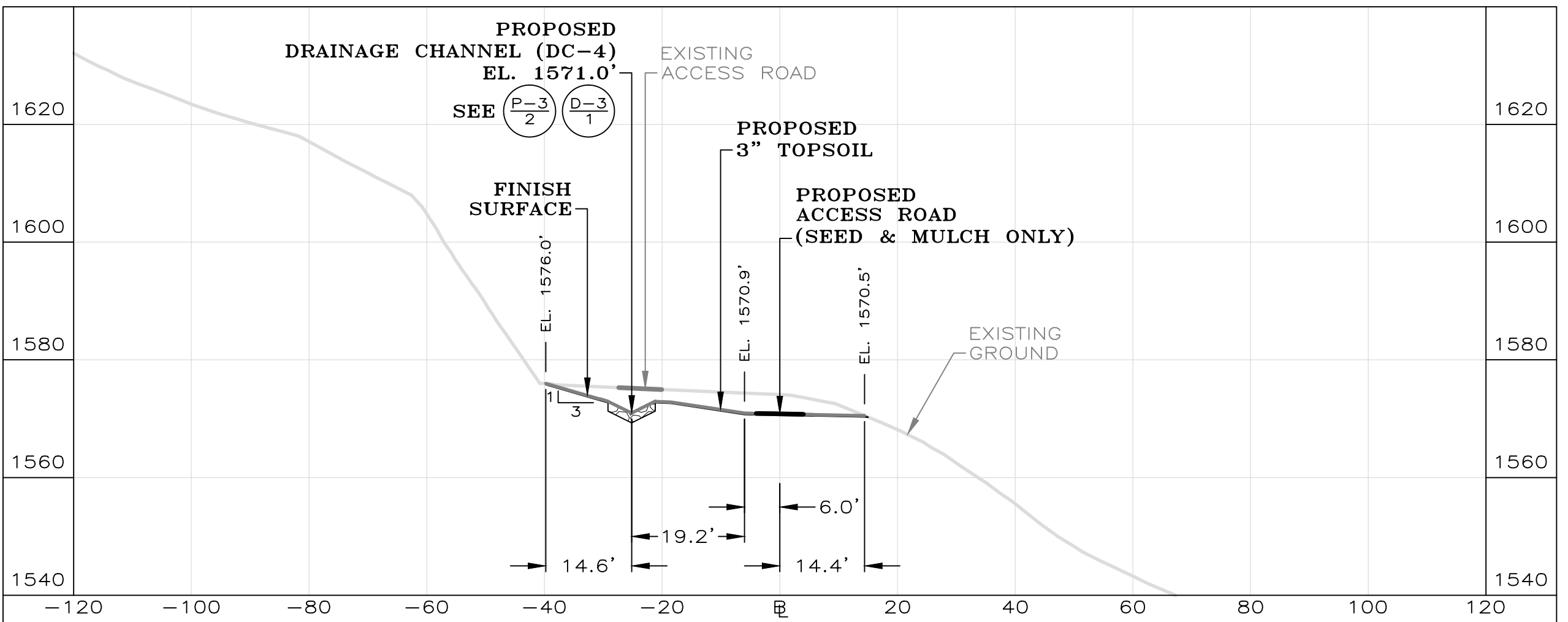
DETAIL (2)
BASELINE B-B STATION 3+50
 SCALE: 1" = 20'



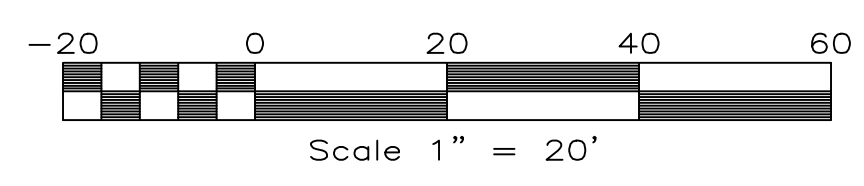
DETAIL (5)
BASELINE B-B STATION 5+00
 SCALE: 1" = 20'



DETAIL (1)
BASELINE B-B STATION 3+00
 SCALE: 1" = 20'



DETAIL (4)
BASELINE B-B STATION 4+50
 SCALE: 1" = 20'



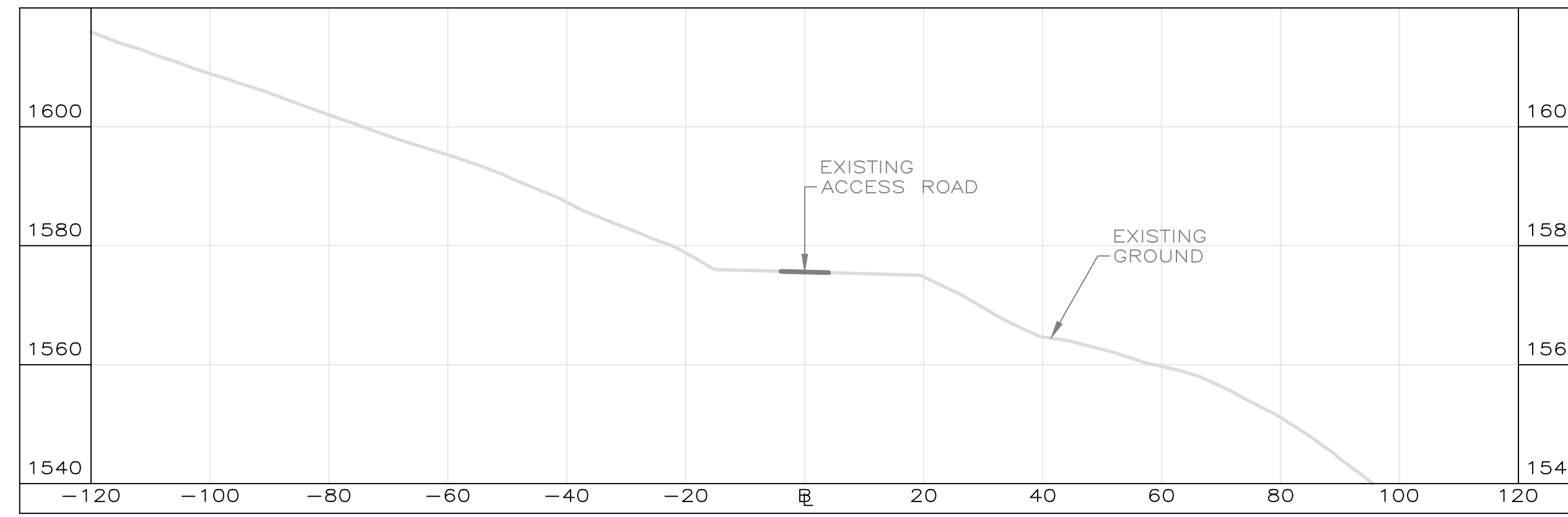
REVISIONS	
DATE	DESCRIPTION

SCALE: AS SHOWN	AML & R
DRAWN BY: CCA	WVDEP
CHECKED BY: MEP	

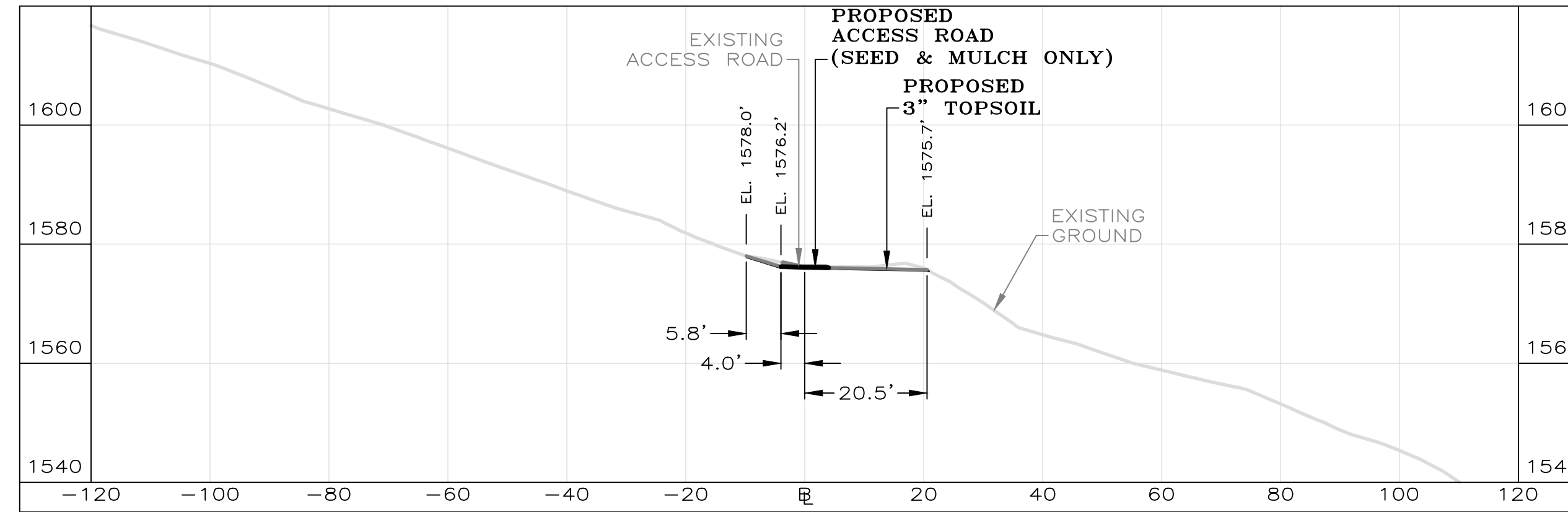
BASELINE B-B SECTIONS STA. 3+00 - STA. 5+50 LITTLE DAYCAMP BRANCH REFUSE MCDOWELL COUNTY, WEST VIRGINIA
--

CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA
--

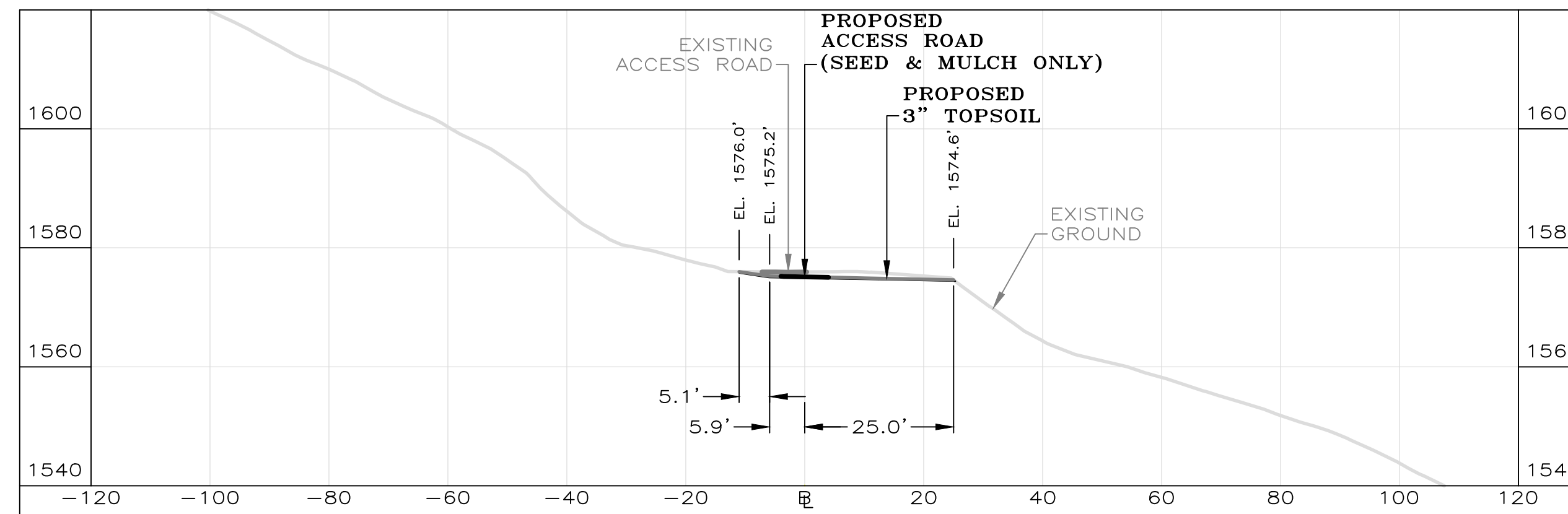
DATE 01/27/14
PROJECT NO. 13106
DRAWING NO. S-8



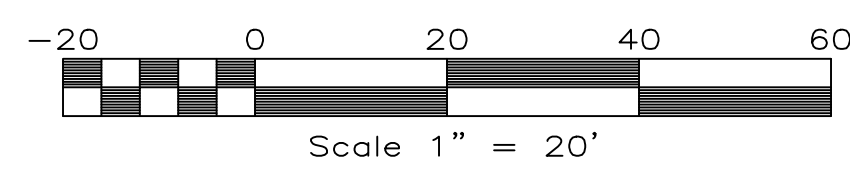
DETAIL (3)
BASELINE B-B STATION 7+00
 SCALE: 1" = 20'



DETAIL (2)
BASELINE B-B STATION 6+50
 SCALE: 1" = 20'



DETAIL (1)
BASELINE B-B STATION 6+00
 SCALE: 1" = 20'



REVISIONS	
DATE	DESCRIPTION

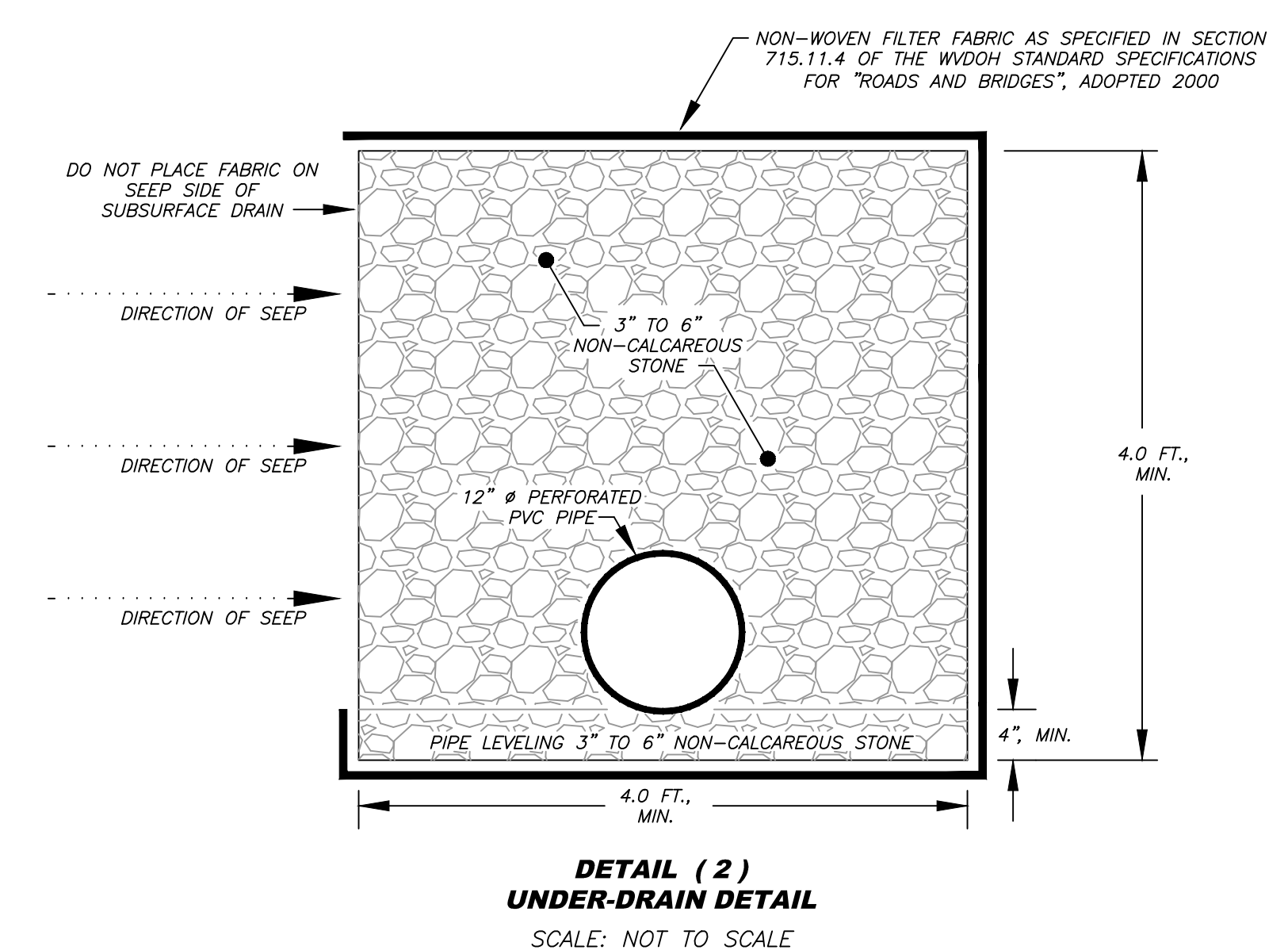
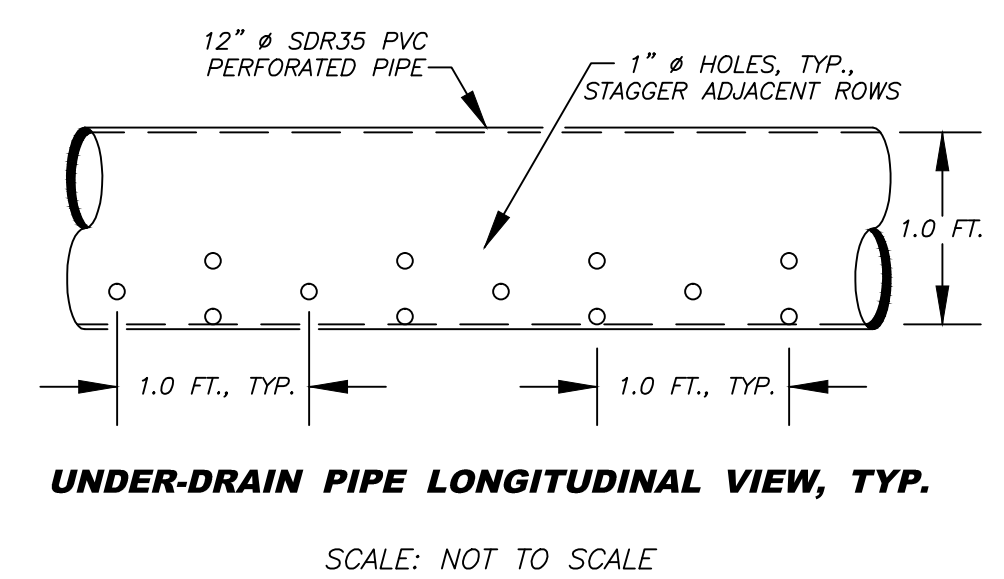
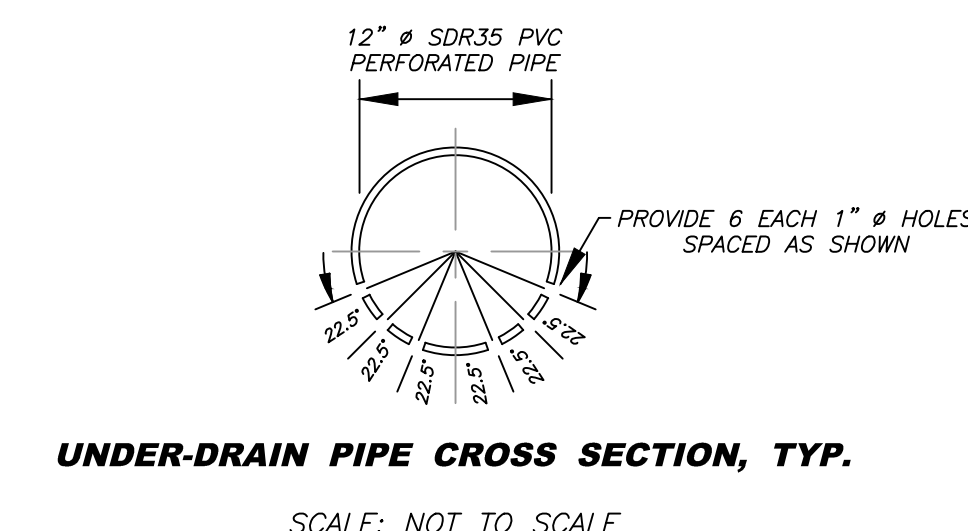
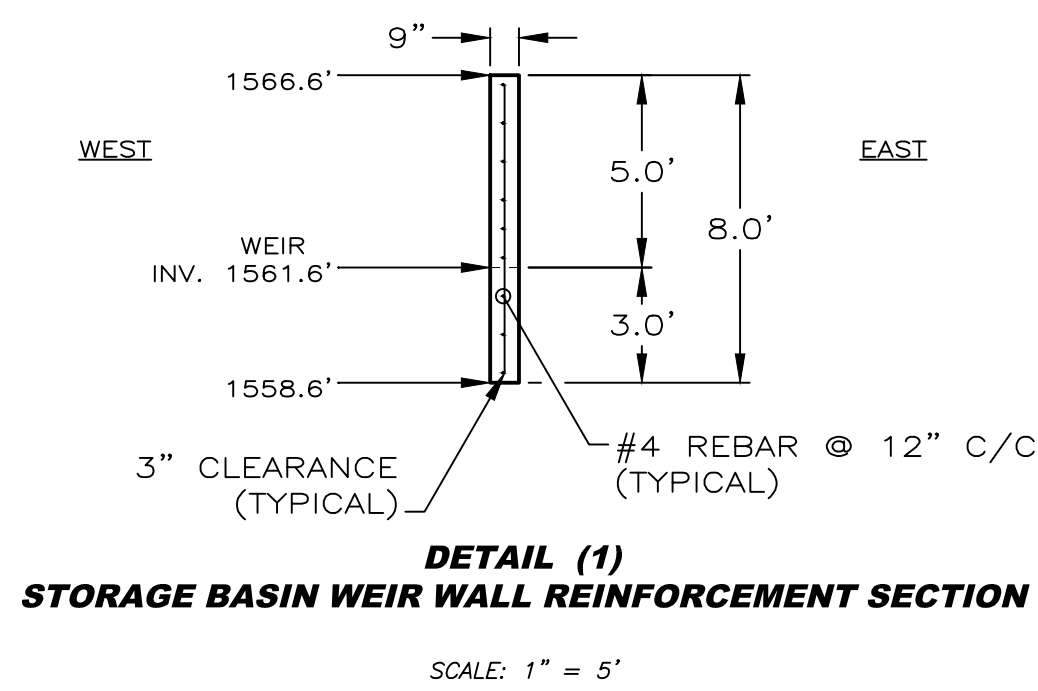
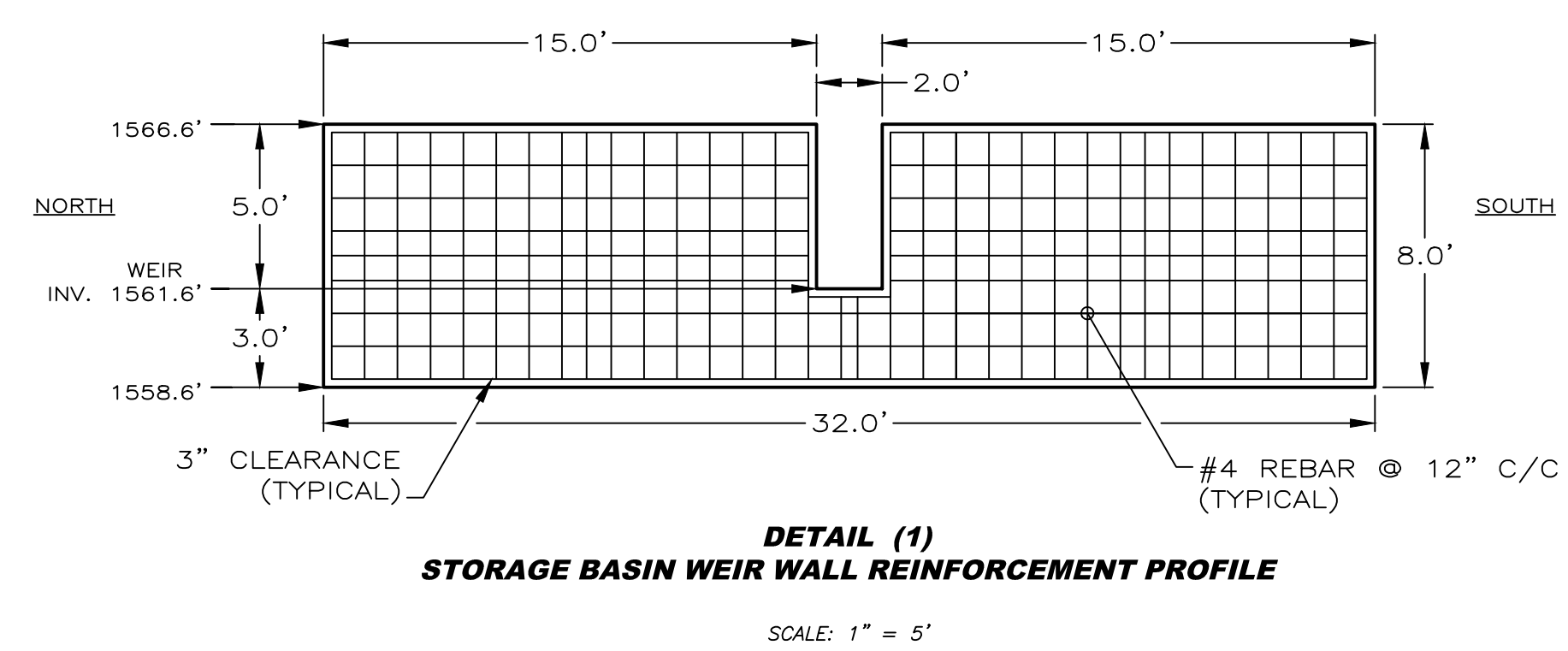
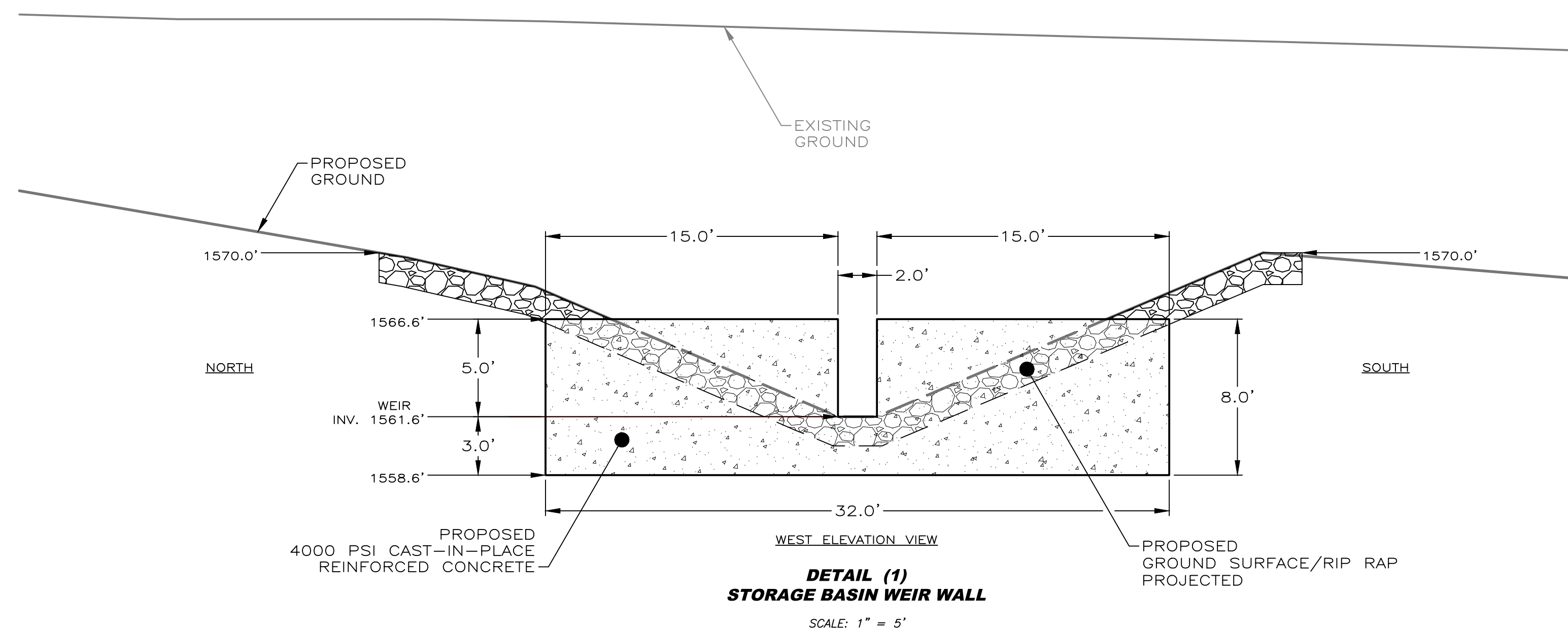
SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: MEP

AML & R
 WDEP

BASELINE B-B SECTIONS
 STA. 6+00 - STA. 7+00
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

DATE
 01/27/14
 PROJECT NO.
 13106
 DRAWING NO.
 S-9



NOTES:
 1. THE FILTER FABRIC SHALL BE OVERLAPPED 1.0 FOOT, MINIMUM, AT ALL JOINTS.

REVISIONS	
DATE	DESCRIPTION

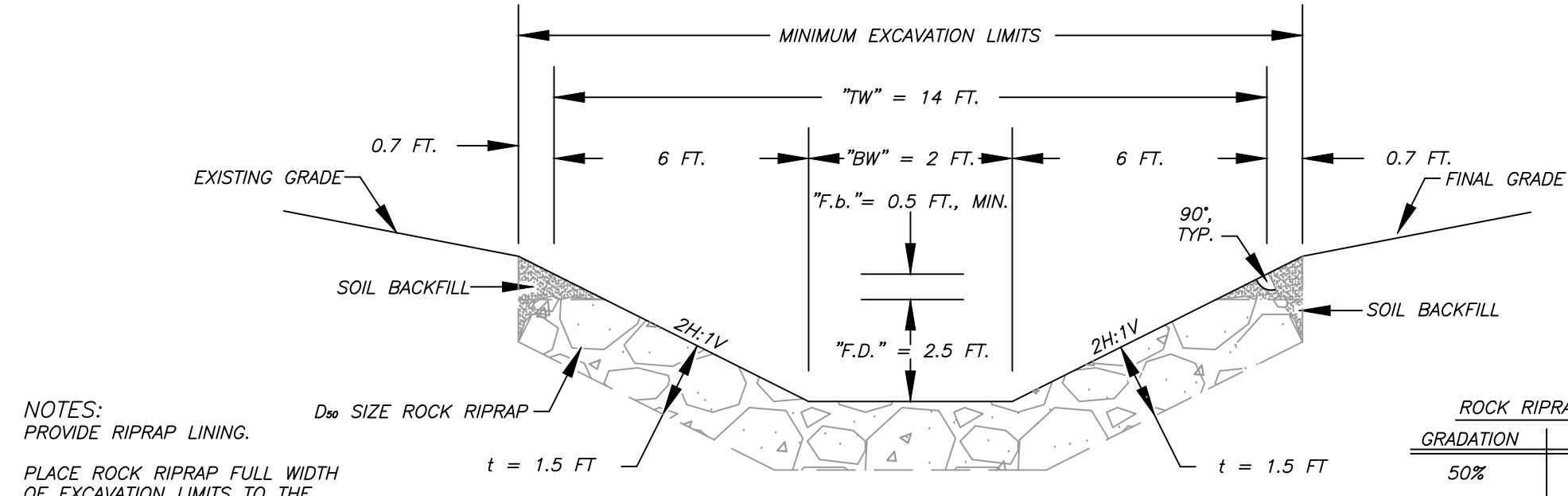
SCALE: AS SHOWN	
DRAWN BY: CCA	
CHECKED BY: WEP	

AML & R	
WDEP	

MISCELLANEOUS DETAILS	
LITTLE DAYCAMP BRANCH REFUSE	
MCDOWELL COUNTY, WEST VIRGINIA	

CIVIL TECH ENGINEERING, INC.	
HURRICANE, WEST VIRGINIA	

DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	D-2

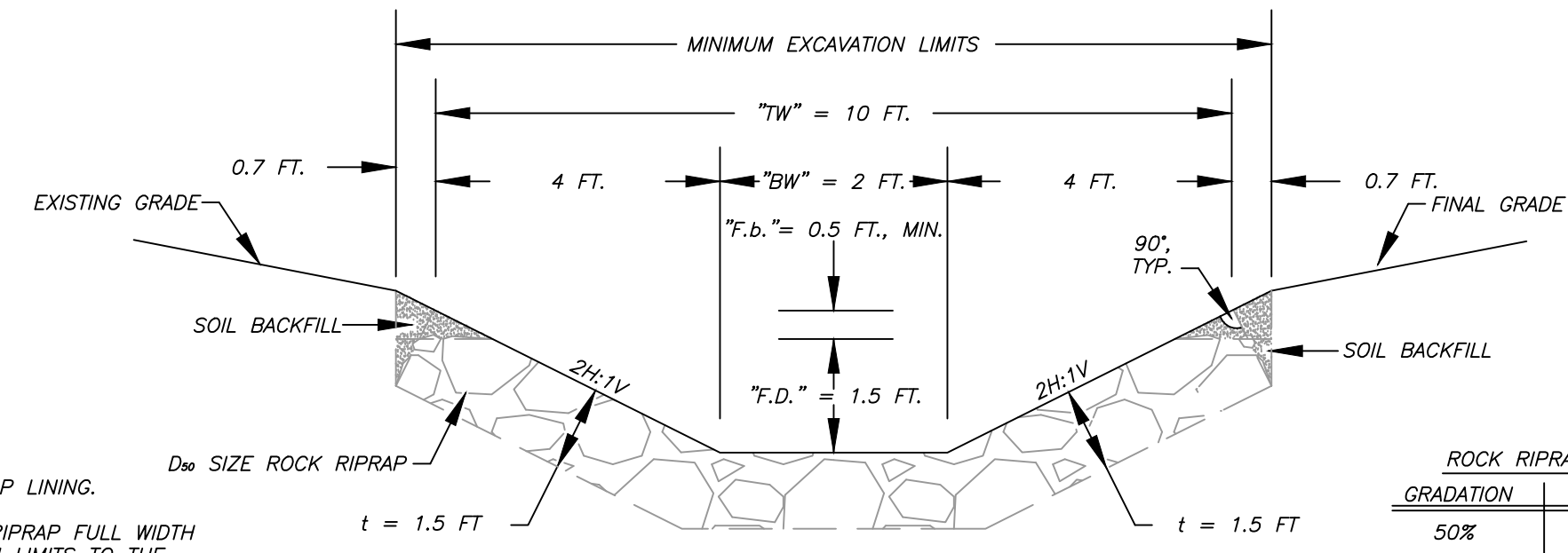


NOTES:
 PROVIDE RIPRAP LINING.
 PLACE ROCK RIPRAP FULL WIDTH OF EXCAVATION LIMITS TO THE DESIGNED FLOW DEPTH (FD).
 "TW" = TOP WIDTH
 "FB" = FREEBOARD DEPTH
 "F.D." = FLOW DEPTH
 "t" = THICKNESS

ROCK RIPRAP SIZING	
GRADATION	D ₉₀ =12"
50%	12" - 18"
35%	6" - 12"
15%	3" - 6"

SCALE: NTS

DITCH NO	LF
DC-5	218

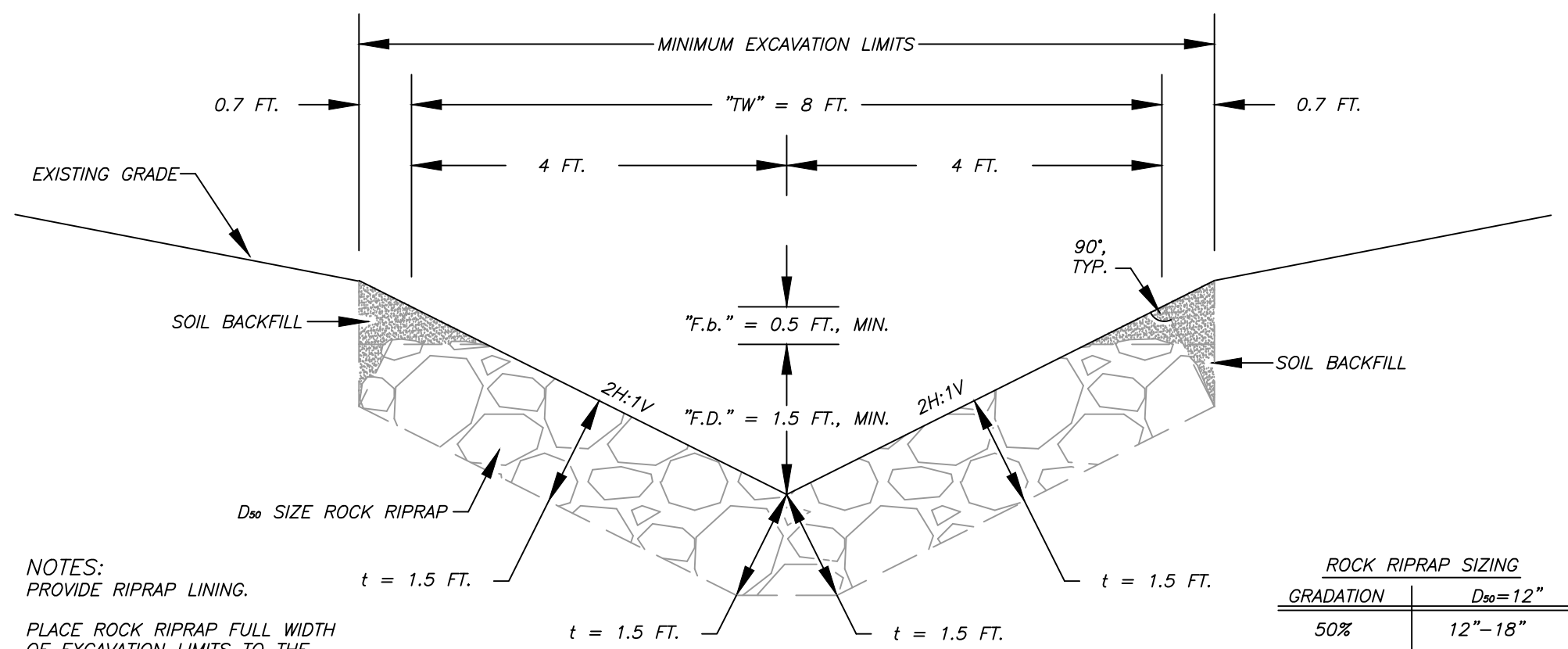


NOTES:
 PROVIDE RIPRAP LINING.
 PLACE ROCK RIPRAP FULL WIDTH OF EXCAVATION LIMITS TO THE DESIGNED FLOW DEPTH (FD).
 "TW" = TOP WIDTH
 "FB" = FREEBOARD DEPTH
 "F.D." = FLOW DEPTH
 "t" = THICKNESS

ROCK RIPRAP SIZING	
GRADATION	D ₉₀ =12"
50%	12" - 18"
35%	6" - 12"
15%	3" - 6"

SCALE: NTS

DITCH NO	LF
DC-3	347

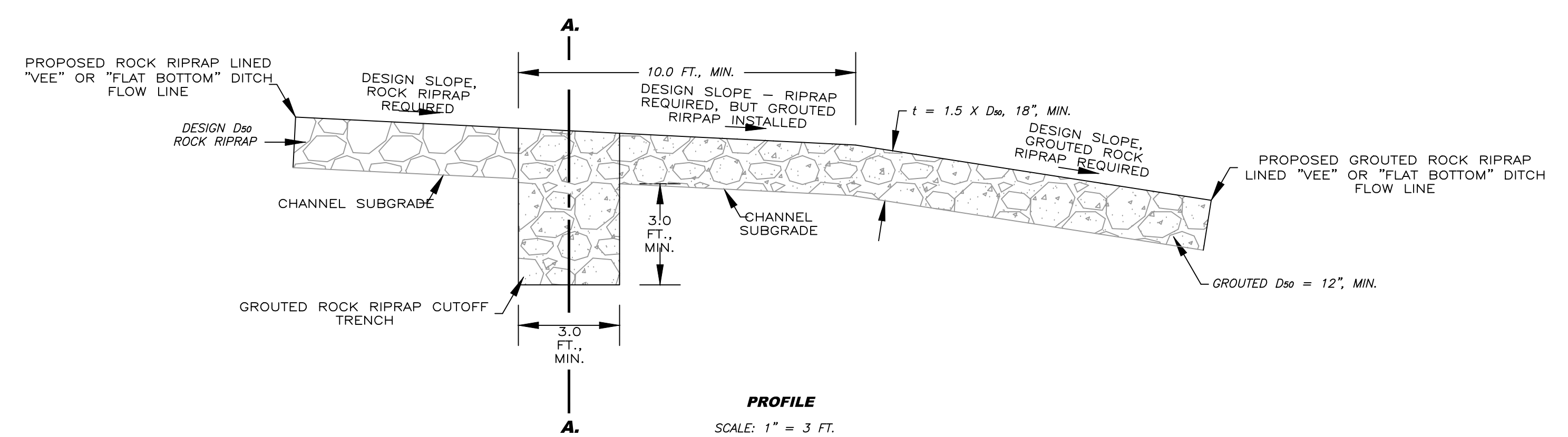


NOTES:
 PROVIDE RIPRAP LINING.
 PLACE ROCK RIPRAP FULL WIDTH OF EXCAVATION LIMITS TO THE DESIGNED FLOW DEPTH (FD).
 "TW" = TOP WIDTH
 "FB" = FREEBOARD DEPTH
 "F.D." = FLOW DEPTH
 "t" = THICKNESS

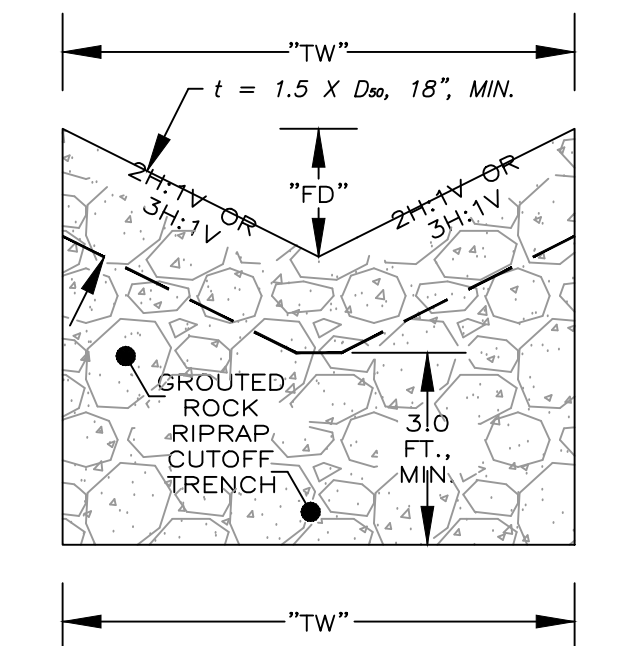
ROCK RIPRAP SIZING	
GRADATION	D ₉₀ =12"
50%	12" - 18"
35%	6" - 12"
15%	3" - 6"

SCALE: NTS

DITCH NO	LF
DC-1	600
DC-2	588
DC-4	310
DC-6	218



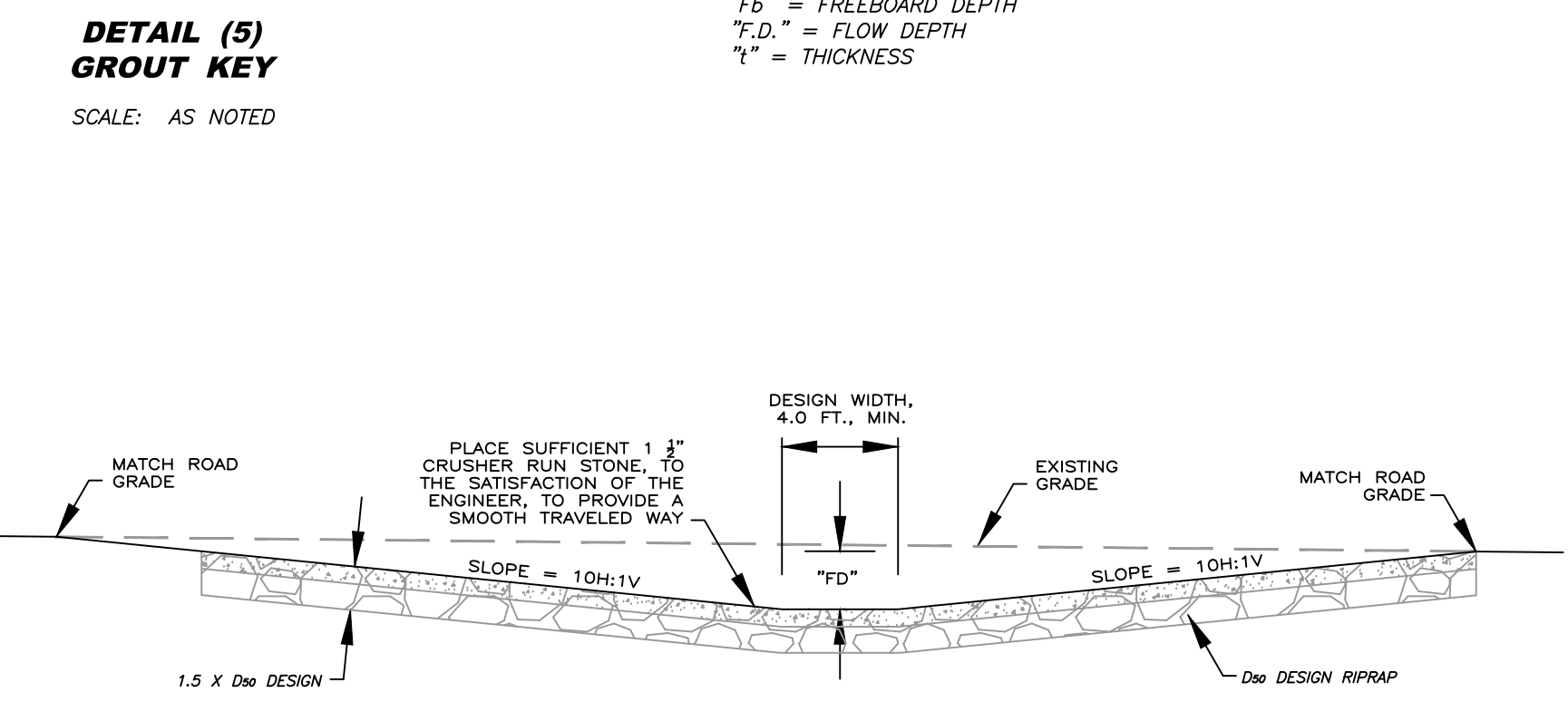
PROFILE
 SCALE: 1" = 3 FT.



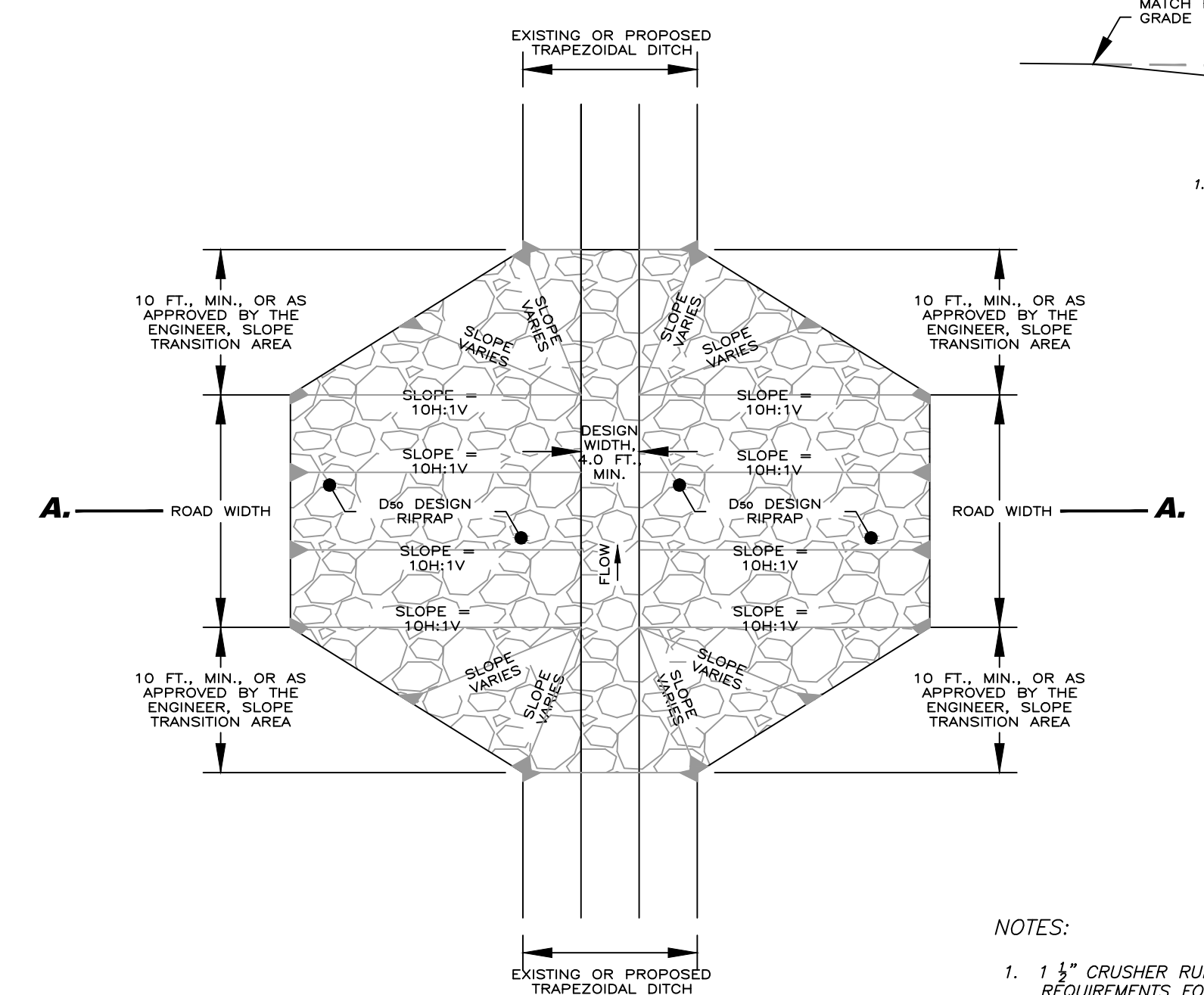
"VEE" DITCH CROSS SECTION A - A.
 SCALE: 1" = 3 FT.

GRADATION	ROCK RIPRAP SIZING			
	D ₉₀ =6"	D ₉₀ =12"	D ₉₀ =18"	D ₉₀ =24"
50%	6" - 9"	12" - 18"	18" - 27"	24" - 36"
35%	3" - 6"	6" - 12"	9" - 18"	12" - 24"
15%	< 3"	3" - 6"	4.5" - 9"	6" - 12"

- NOTES:
- EXTEND GROUT KEY LATERALLY THE FULL WIDTH OF THE CHANNEL AS SHOWN IN THE CROSS SECTION VIEW.
 - INSTALL GROUT KEY AT THE JUNCTION OF ROCK RIPRAP CHANNEL WITH GROUDED ROCK RIPRAP CHANNEL AS SHOWN IN THE PROFILE VIEW.
 - AFTER EXCAVATING THE GROUT KEY TO THE DIMENSIONS SHOWN, PLACE GROUT IN THE EXCAVATION TO THE CHANNEL SUB GRADE PRIOR TO PLACING THE RIPRAP.
 - "TW" = TOP WIDTH
 "FB" = FREEBOARD DEPTH
 "F.D." = FLOW DEPTH
 "t" = THICKNESS



CROSS SECTION A - A.
 SCALE: 1" = 6 FT.



PLAN VIEW
 SCALE: 1" = 10 FT.

GRADATION	ROCK RIPRAP SIZING			
	D ₉₀ =6"	D ₉₀ =12"	D ₉₀ =18"	D ₉₀ =24"
50%	6" - 9"	12" - 18"	18" - 27"	24" - 36"
35%	3" - 6"	6" - 12"	9" - 18"	12" - 24"
15%	< 3"	3" - 6"	4.5" - 9"	6" - 12"

- NOTES:
- 1 1/2" CRUSHER RUN STONE SHALL MEET THE GRADATION REQUIREMENTS FOR CLASS 1 AGGREGATE IN TABLE 704.6.24 OF THE WOODS SPECIFICATIONS FOR ROADS AND BRIDGES.
 - "TW" = TOP WIDTH
 "FB" = FREEBOARD DEPTH
 "F.D." = FLOW DEPTH
 "t" = THICKNESS

DETAIL (4)
 RIPRAP TRAPEZOIDAL CHANNEL ROAD CROSSING -
 LOW WATER CROSSING
 SCALE: AS NOTED

REVISIONS		DATE	DESCRIPTION
NO.	BY		

SCALE: AS SHOWN
 DRAWN BY: CCA
 CHECKED BY: WEP

AML & R
 WDEP

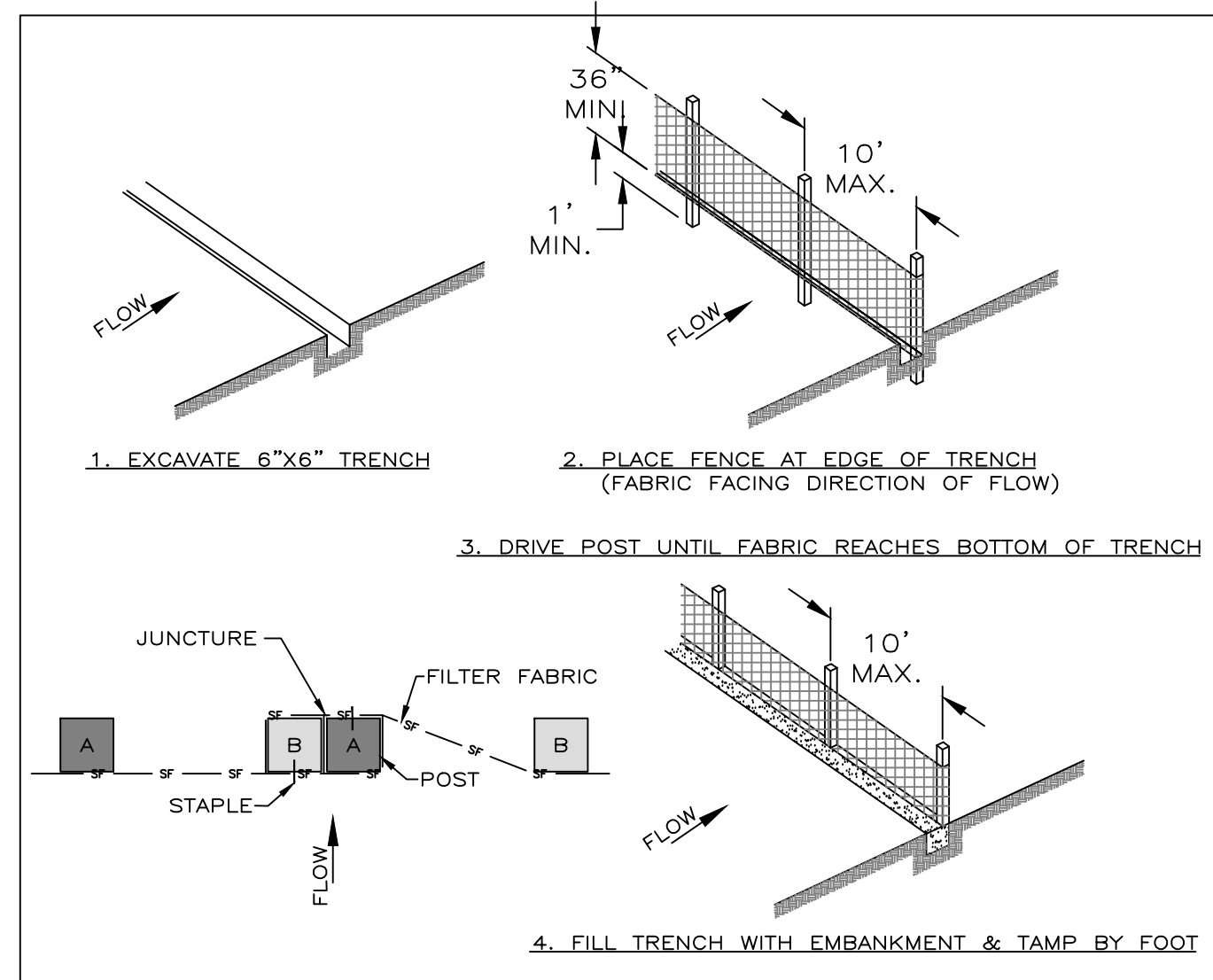
MISCELLANEOUS DETAILS
 LITTLE DAYCAMP BRANCH REFUSE
 MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA

DATE
 01/27/14

PROJECT NO.
 13106

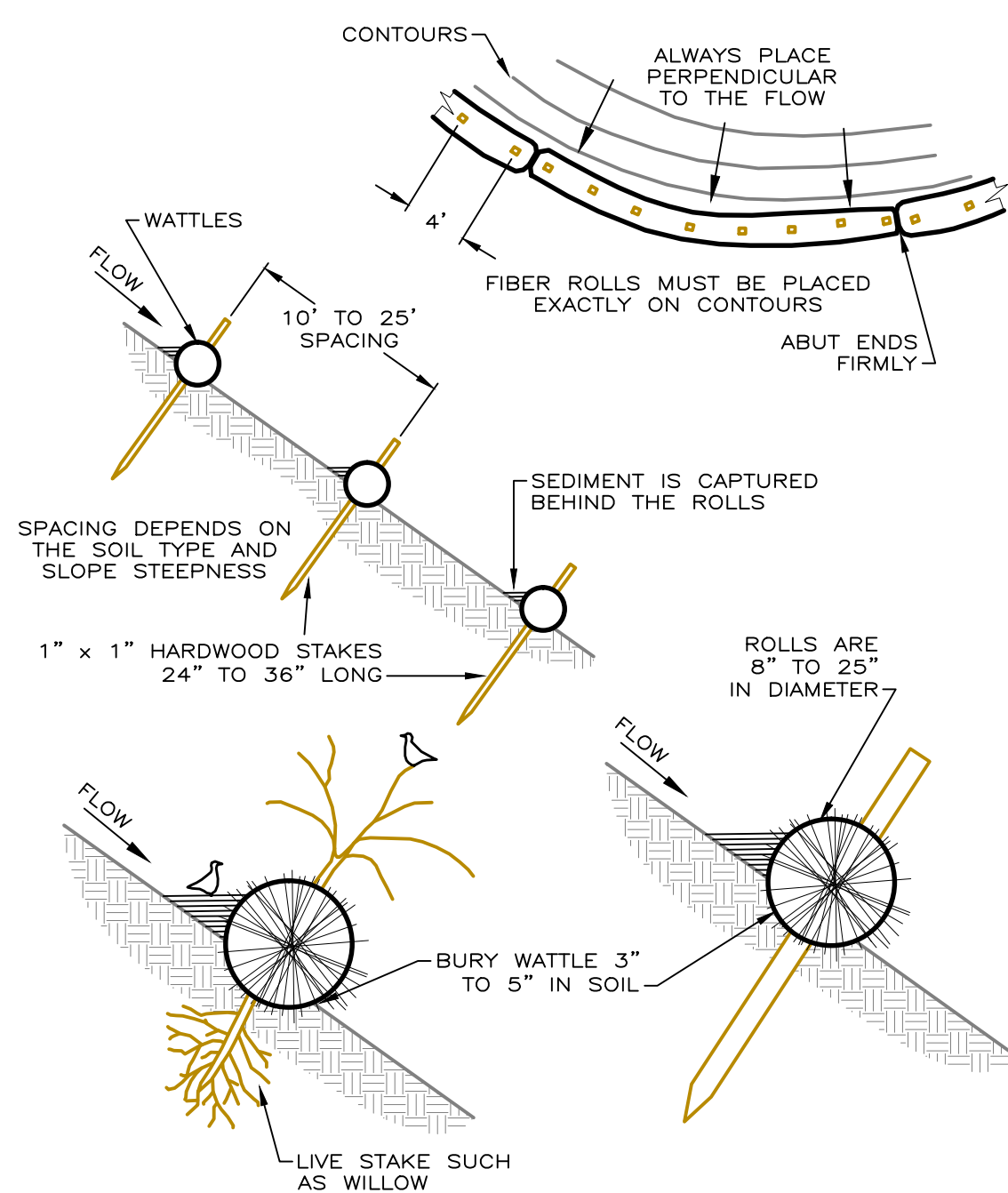
DRAWING NO.
 D-3



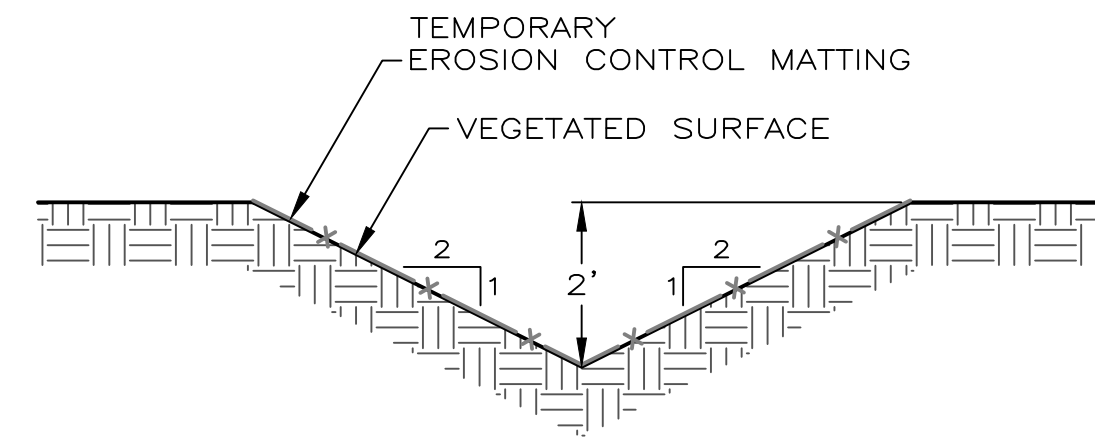
**DETAIL (2)
SILT FENCE INSTALLATION & DETAILS**

SCALE: NTS

- NOTES:
- 1) WHEN MORE THAN ONE ROLL OF SILT FENCE IS USED, THE JUNCTURE MUST BE PLACED SO THAT THE LAST POST OF THE FIRST RUN & THE FIRST POST OF THE SECOND RUN OVERLAP & ARE TIED TOGETHER.
 - 2) INSTALL SILT FENCE PARALLEL WITH GROUND CONTOUR.
 - 3) LIMIT DRAINAGE TO 0.25 AC/100 FT. OF SILT FENCE.
 - 4) DO NOT INSTALL SILT FENCE WHERE CONCENTRATED FLOW IS ANTICIPATED.

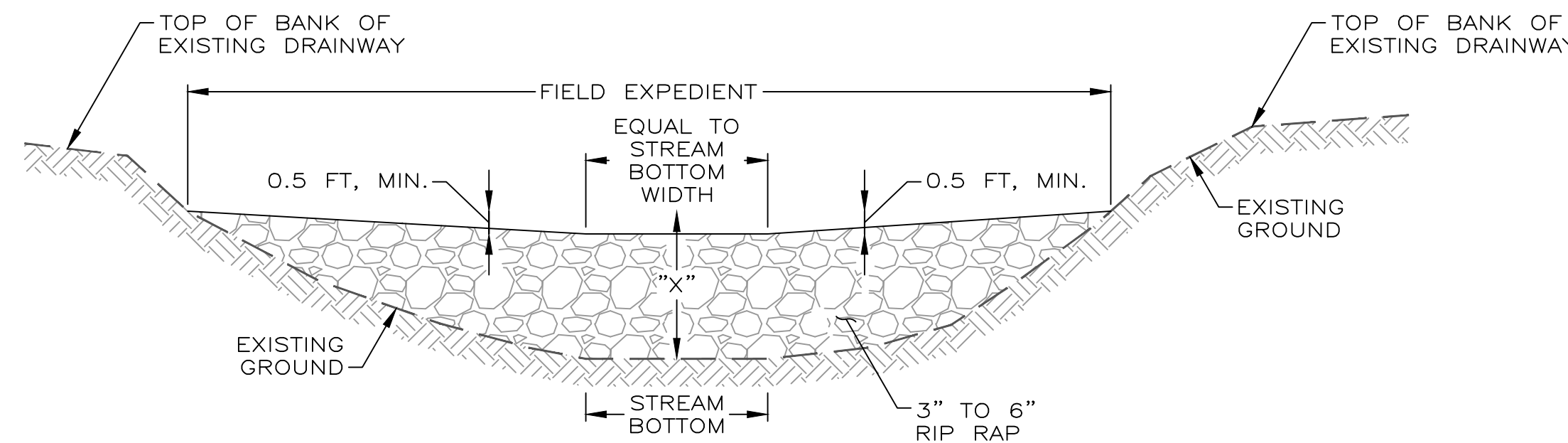
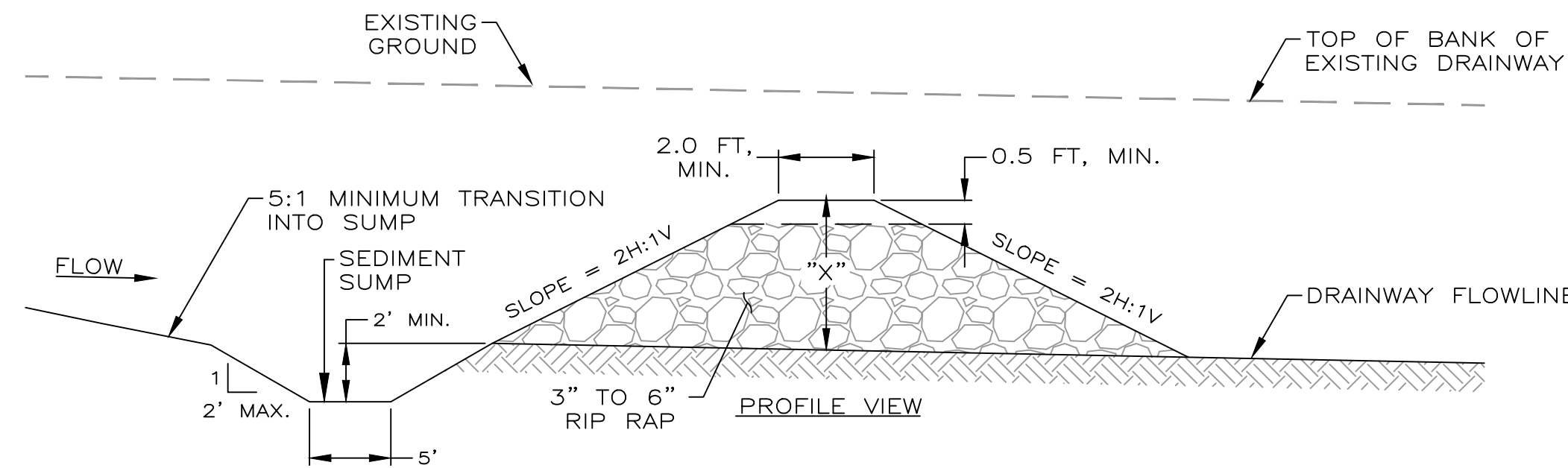
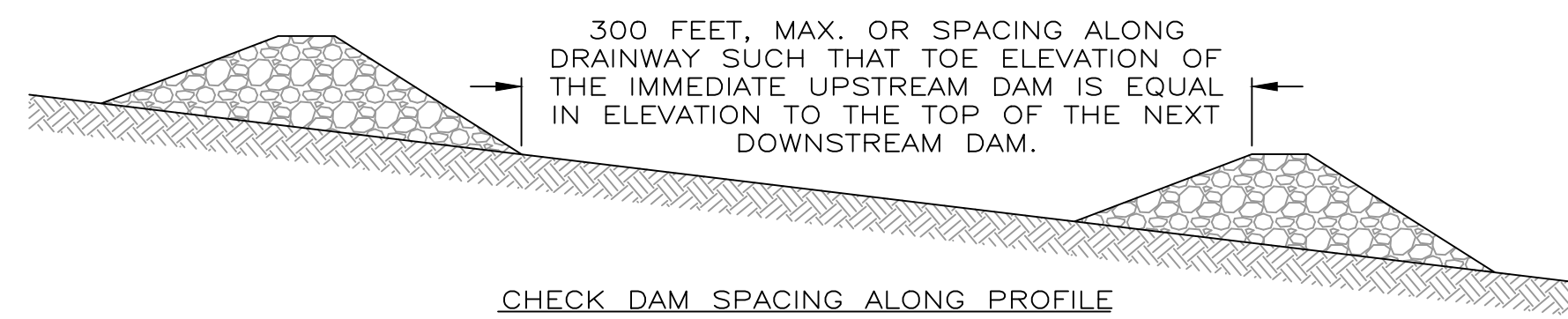


**DETAIL (1)
WATTLES**
SCALE: NOT TO SCALE



**DETAIL (4)
TEMPORARY DITCH**

SCALE: NTS
NOTE: MINIMUM SLOPE=1%
MAXIMUM SLOPE=5%

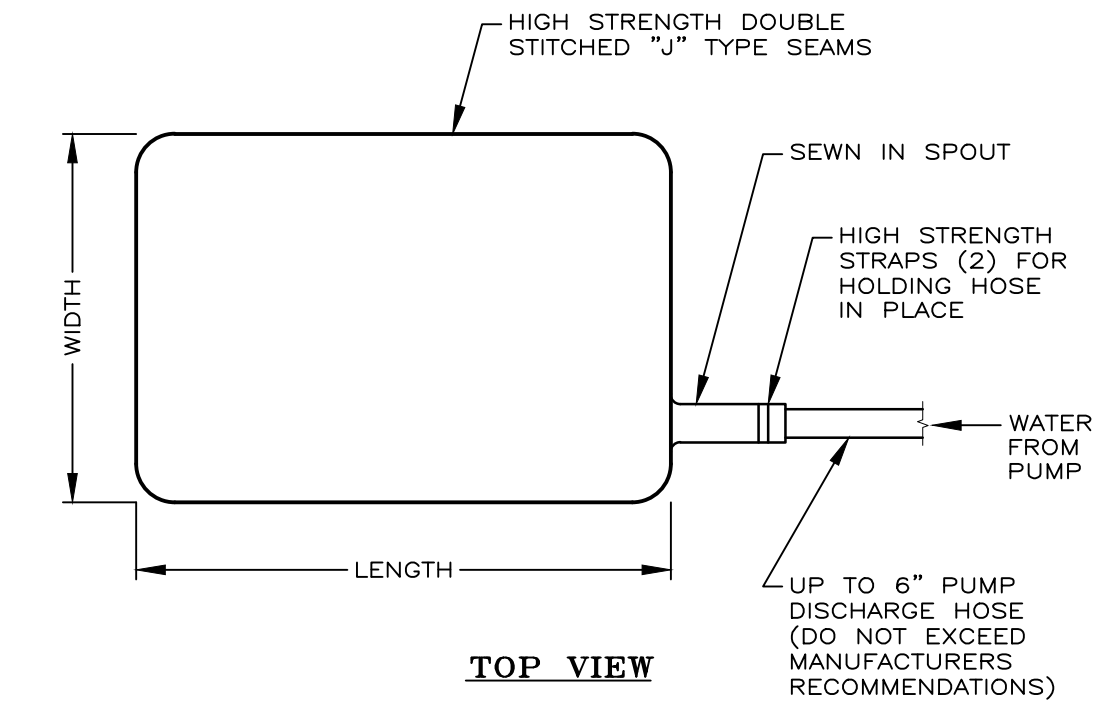


**DETAIL (3)
ROCK CHECK DAM WITH SUMP**

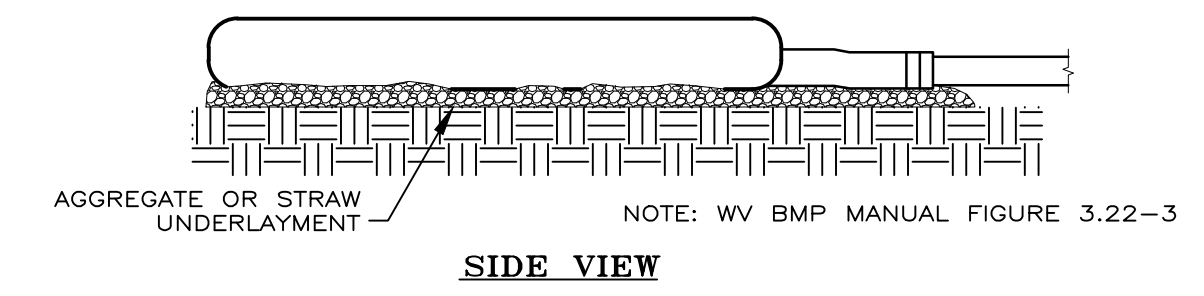
SCALE: 1" = 3 FEET

- NOTES:
1. "X" DIMENSION AS DETAILED BY THE SPECIFICATIONS, FOR SEDIMENT CONTROL THE MAXIMUM HEIGHT OF THE ROCK CHECK DAM IS 3 FEET. HOWEVER, ROCK CHECK DAMS CAN BE CONSTRUCTED IN SMALLER DITCHES. THE CENTER OF THE ROCK CHECK DAM SHALL BE 0'-6" LOWER THAN THE OUTER EDGES AS SHOWN.
 2. ROCK CHECK DAMS ARE NORMALLY INSTALLED IN EXISTING DRAINS AND THE TOP CROSS SECTION OF THE DAM SHOULD HAVE A LEVEL CENTER SECTION THE SAME WIDTH AS THE EXISTING CHANNEL BOTTOM AND 0'-6" LOWER THAN THE OUTER EDGES OF THE DAM. ROCK CHECK DAMS PLACED IN PROJECT CONSTRUCTED FLAT-BOTTOM DITCHES SHALL HAVE SIMILAR DIMENSIONS.
 3. THE CENTER OF ROCK CHECK DAMS CONSTRUCTED IN PROJECT CONSTRUCTED "VEE" SHAPED OR EXISTING "VEE" SHAPED DITCHES SHALL BE 0'-6" LOWER THAN AND SLOPED TO THE OUTER TOP EDGES OF THE DITCH SO HIGH FLOWS GO OVER THE TOP OF THE DAM AND NOT AROUND THE EDGES.
 4. ROCK CHECK DAMS SHALL BE REMOVED AFTER THE FIRST GROWING SEASON.

TEMPORARY EROSION & SEDIMENT CONTROL DETAILS
SCALE: NTS

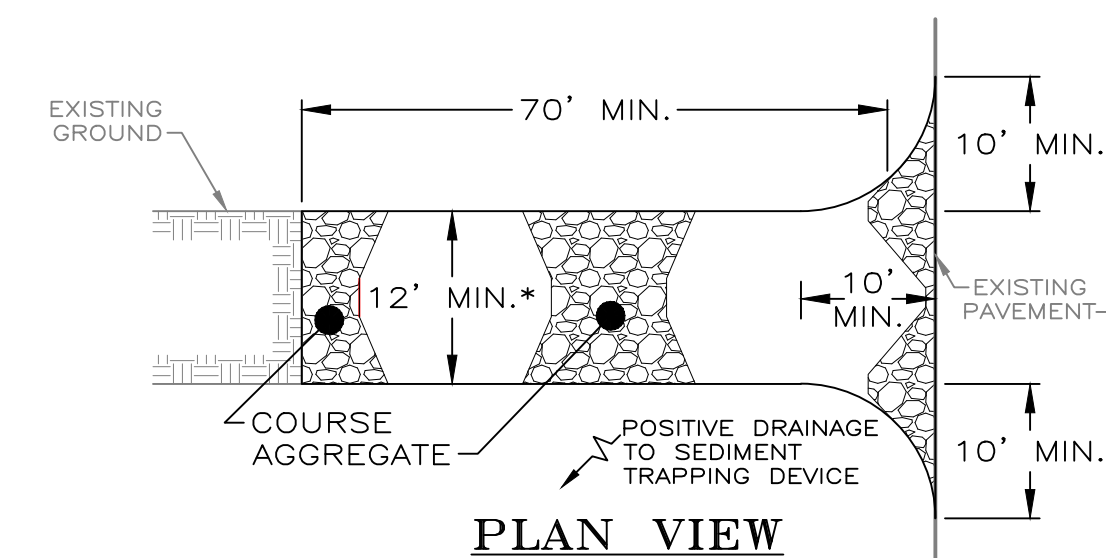
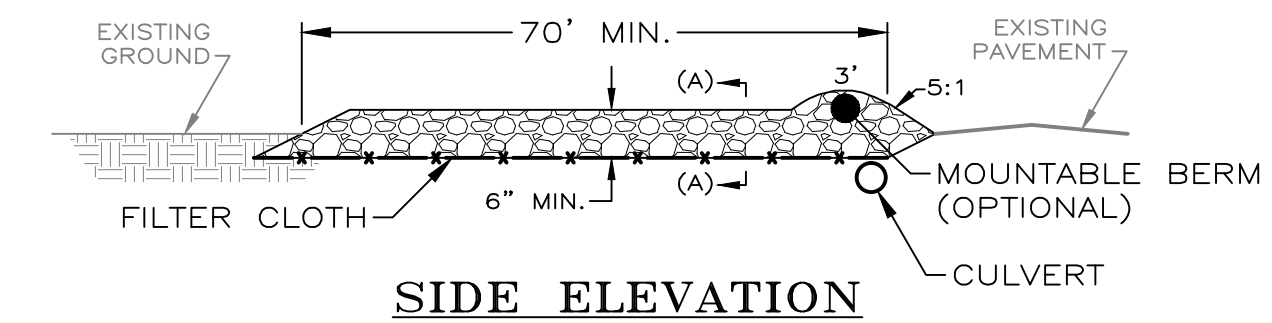


BAG SIZE: Pump discharge (g.p.m.) x 16 = cubic feet of storage required.

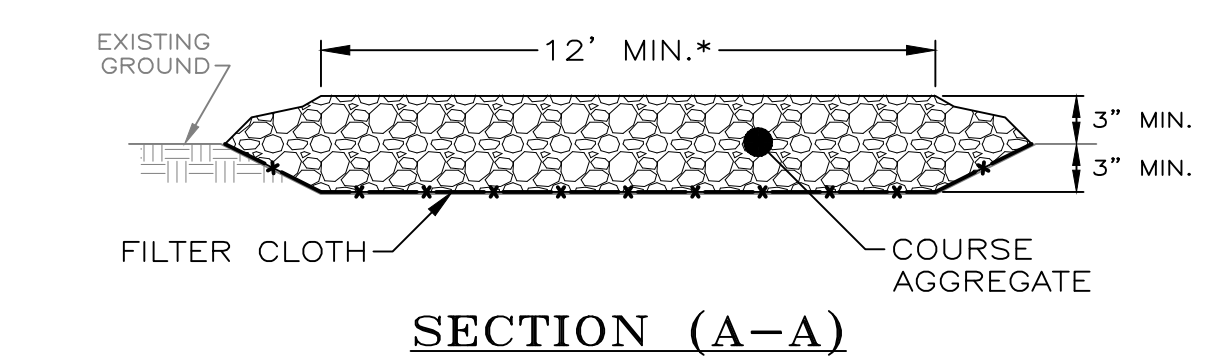


**DETAIL (6)
DEWATERING BAG**

SCALE: NTS



* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION



**DETAIL (5)
STABILIZED CONSTRUCTION ENTRANCE (SCE)**
SCALE: NOT TO SCALE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: AS SHOWN
DRAWN BY: CCA
CHECKED BY: MEP

AML & R
WDEP

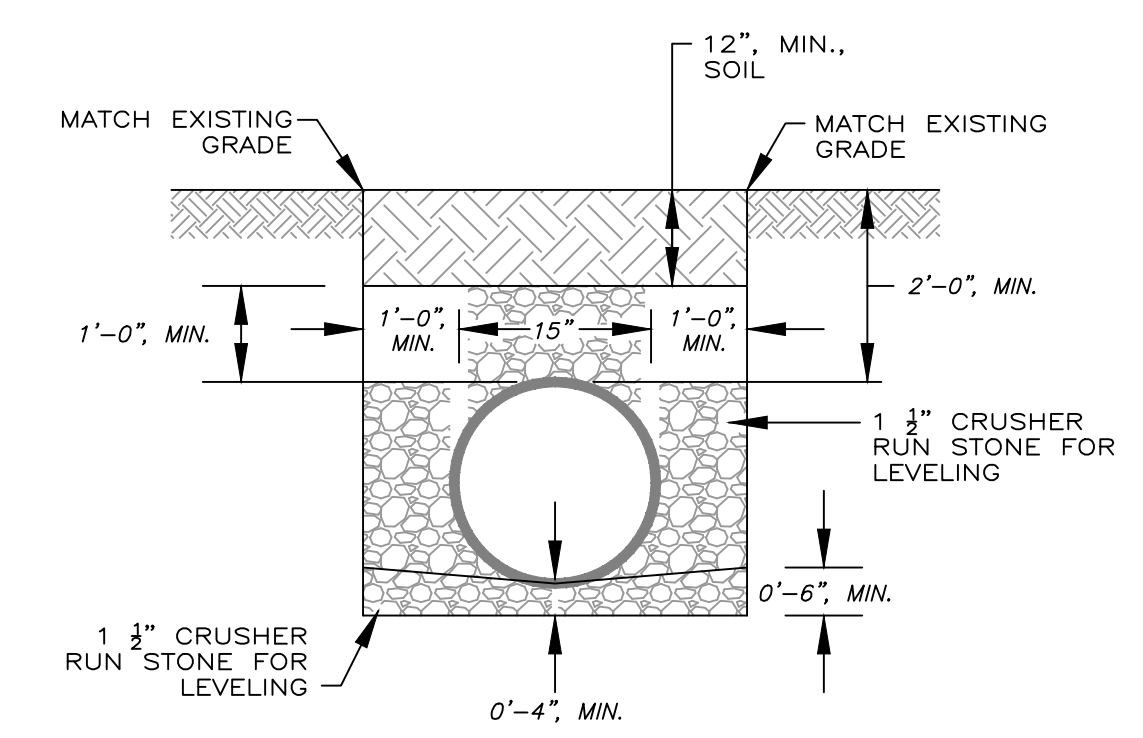
TEMPORARY EROSION & SEDIMENT CONTROL DETAILS
LITTLE DAYCAMP BRANCH REFUSE
MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
HURRICANE, WEST VIRGINIA

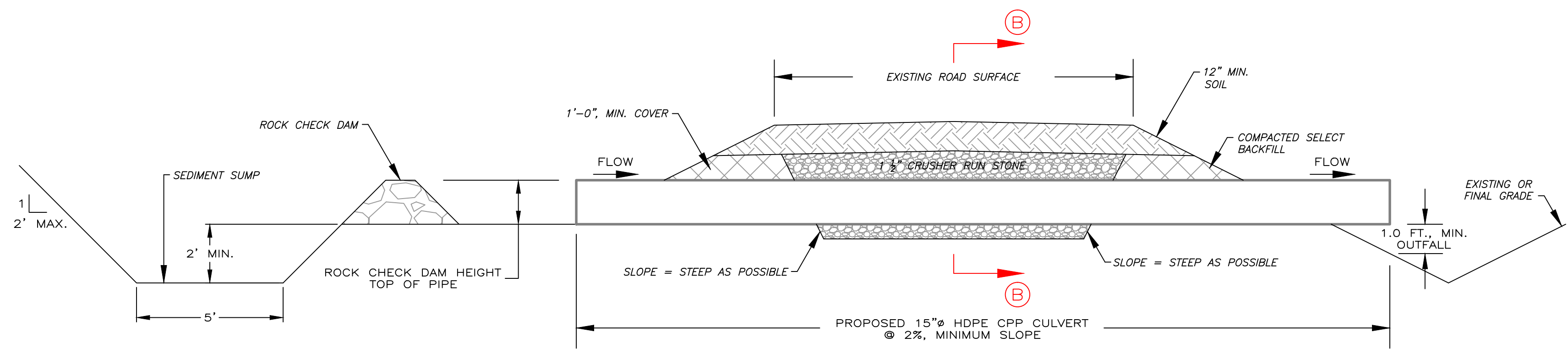
DATE
01/27/14
PROJECT NO.
13106
DRAWING NO.
E-1

MAINTENANCE AND SEEDING NOTES

- a) At a minimum, inspections of all erosion and sediment controls will be conducted every 7 days and within 24 hours of a rain event of 0.5 inches or greater rainfall in 24 hours.
- b) Except as noted below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have been temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has permanently ceased.
- c) Where the initiation of stabilization measures by the seventh day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as conditions allow.
- d) Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (e.g., the total time period that construction activity is temporarily halted is less than 14 days) then stabilization measures do not have to be initiated on that portion of the site by the seventh day after construction activities have temporarily ceased.
- e) Areas where the seed has failed to germinate adequately (uniform perennial vegetative cover with a density of 70%) within 30 days after seeding and mulching must be reseeded immediately, or as soon as weather conditions allow.

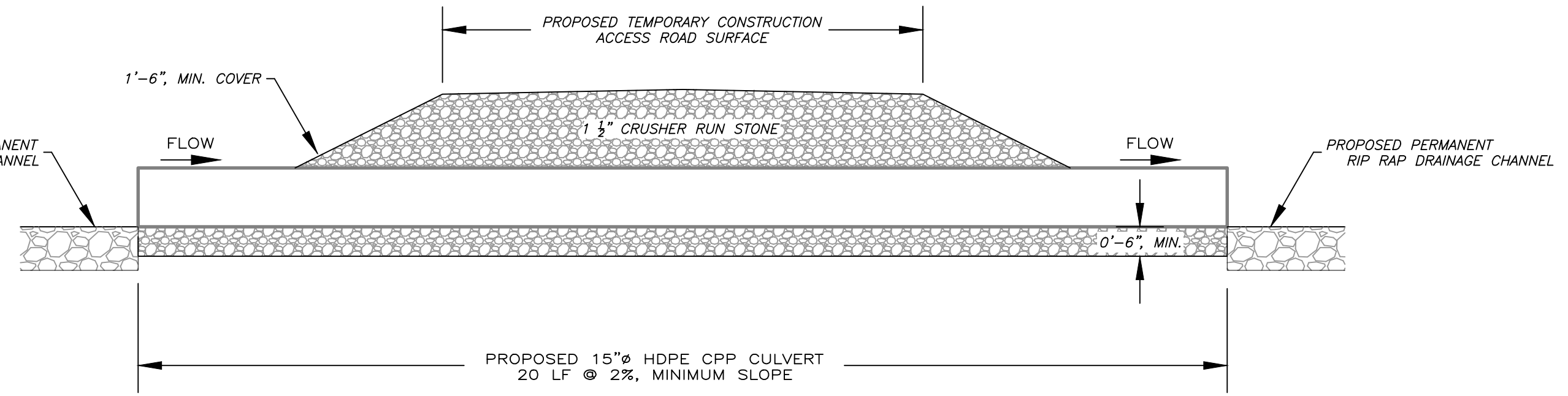


DETAIL (1) - SECTION B-B
TEMPORARY CULVERT BEDDING & BACKFILL



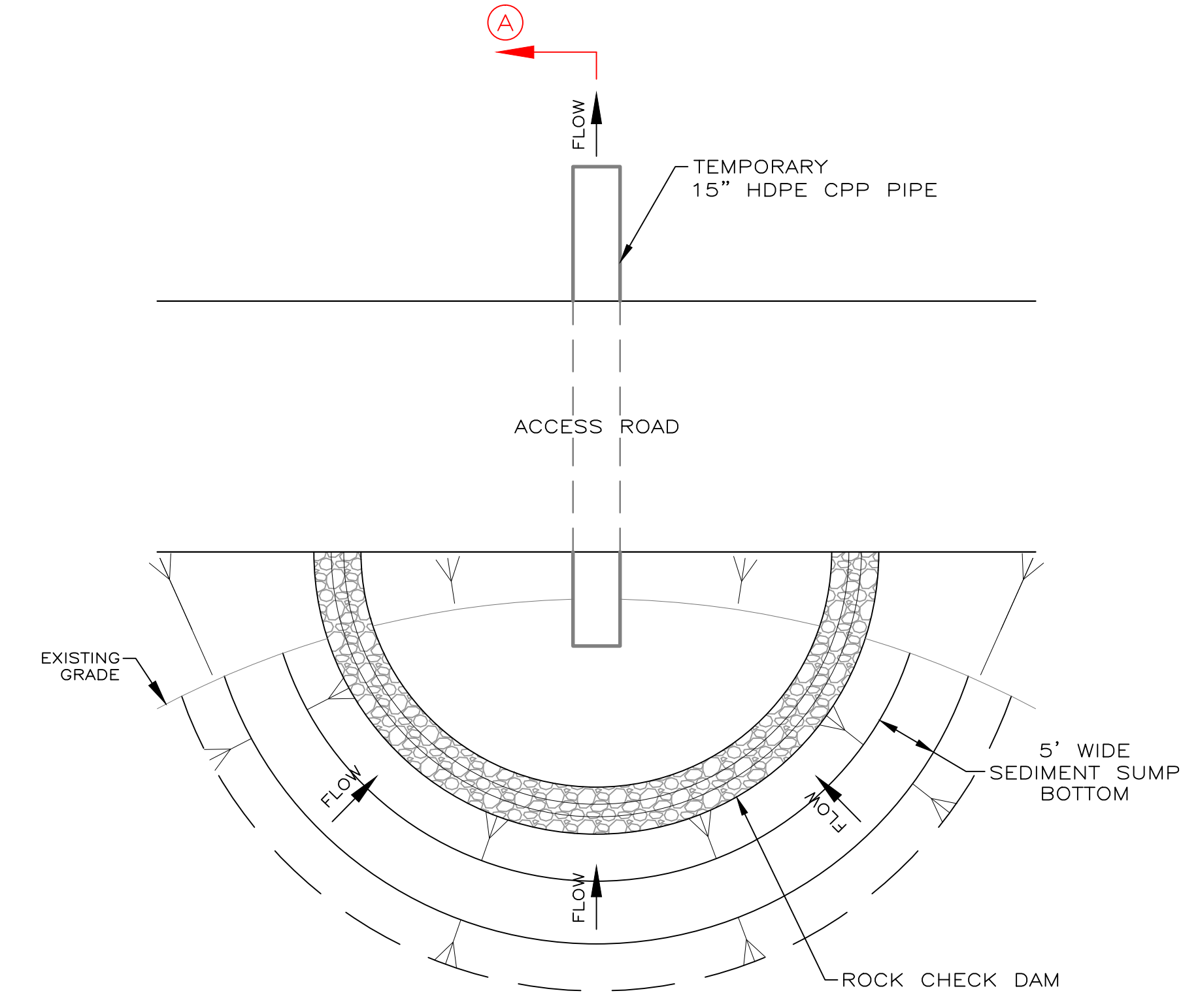
DETAIL (1) - PROFILE A-A
TEMPORARY CULVERT PROFILE

NOTES:
1. 1 1/2" CRUSHER RUN STONE SHALL MEET THE GRADATION REQUIREMENTS FOR CLASS 1 AGGREGATE IN TABLE 704.6.2A OF THE WVDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.



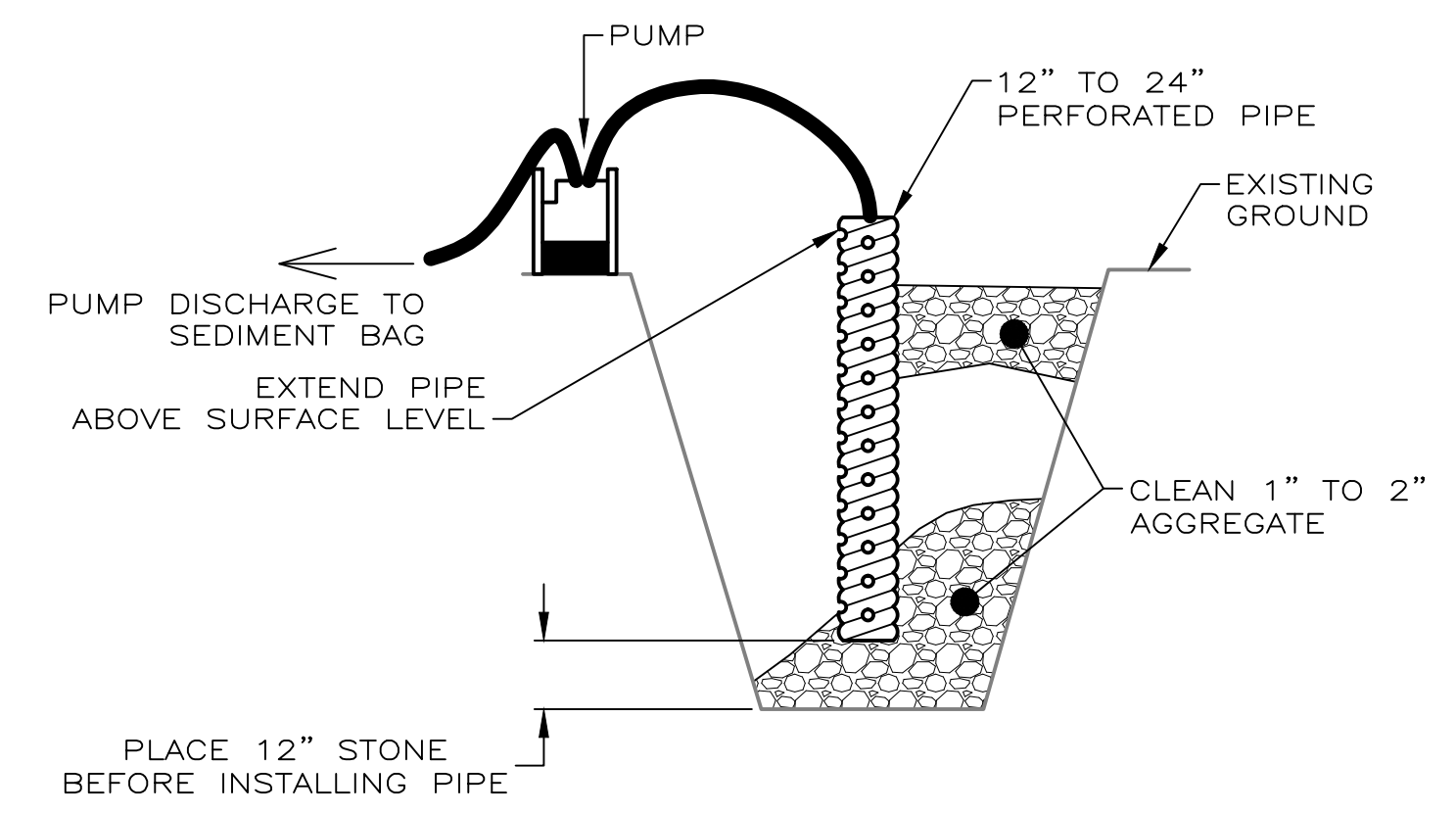
DETAIL (3) - PROPOSED
TEMPORARY CONSTRUCTION
ACCESS ROAD SURFACE

NOTES:
1. 1 1/2" CRUSHER RUN STONE SHALL MEET THE GRADATION REQUIREMENTS FOR CLASS 1 AGGREGATE IN TABLE 704.6.2A OF THE WVDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
2. TEMPORARY PIPE AND CRUSHER RUN STONE TO BE REMOVED AT PROJECT COMPLETION AND REPLACED WITH PERMANENT RIP RAP DRAINAGE CHANNEL.



DETAIL (1)
TEMPORARY PIPE INLET CHECK DAM WITH SEDIMENT SUMP

NOTES:
1. PROVIDE ROCK INLET CHECK DAM & SEDIMENT SUMP WHERE SHOWN ON PLANS.



DETAIL (2)
SUMP PIT

TEMPORARY EROSION & SEDIMENT CONTROL DETAILS
SCALE: NTS

REVISIONS	
DATE	DESCRIPTION

SCALE: AS SHOWN	DATE:
DRAWN BY: CCA	CHECKED BY: MEP

AML & R
WDEP

TEMPORARY EROSION & SEDIMENT CONTROL DETAILS
LITTLE DAYCAMP BRANCH REFUSE
MCDOWELL COUNTY, WEST VIRGINIA

CIVIL TECH ENGINEERING, INC.
HURRICANE, WEST VIRGINIA

DATE	01/27/14
PROJECT NO.	13106
DRAWING NO.	E-2