



**GENERIC INSTALLATION SEQUENCE:**

THIS INSTALLATION SEQUENCE ONLY SERVES AS A GENERIC GUIDE FOR THE MINIMUM EROSION AND SEDIMENT CONTROL (ESC) MEASURES FOR EVERY STAGE OF WORK. SITE CONDITION SUCH AS DISPERSIVE SOIL MAY WARRANT HIGHER ESC STANDARD (CONTACT SUPERINTENDENT OR THE ENGINEER PRIOR TO WORK).

CODE	ITEM	PLAN	INSTALLED	REMOVED
MARK OUT INITIAL LIMITS OF DISTURBANCE. IDENTIFY LOCATION OF DISPERSIVE SOIL IF ANY. IF DISPERSIVE SOIL IS ENCOUNTERED CONTACT THE SUPERINTENDENT PRIOR TO COMMENCING WORK.				
Entry/Exit	Construction entry/exit - vibration grid	DWG. DC1603-MHN-1A-ES04 & DC1603-MHN-1A-ES10	Day One	When Entry/Exit is no longer required
SF	Sediment Fence with Woven Fabric	DWG. DC1603-MHN-1A-ES04 TO DC1603-MHN-1A-ES08	Prior to clearing of upslope areas	When site office and Stockpile is removed and when upslope site is suitably stabilised
Site Office	Site Office		Day One	End of Work
Stockpile	Stockpile/Waste/Parts Washdown Area		Day One	End of Work
CD	Parabolic Catch Drain without bank - Type A	DWG. DC1603-MHN-1A-ES04 TO DC1603-MHN-1A-ES08	Day One	After site stabilisation
MB	Mulch Filter Berms	DWG. DC1603-MHN-1A-ES04 TO DC1603-MHN-1A-ES08	As soon as construction activities allows. Install as required	After site stabilisation or house construction on each individual lots commenced
OG, SA, FD	On Grade, Sag, and Fabric Drop Inlet Protection	DWG. DC1603-MHN-1A-ES07 & DC1603-MHN-1A-ES08	As soon as inlets and pipes are constructed	After site stabilisation
GFS	1.2m Grass Filter Strip	DWG. DC1603-MHN-1A-ES07 & DC1603-MHN-1A-ES08	As soon as construction activities allows	NA
LS	Level Spreader	DWG. DC1603-MHN-1A-ES04 & DC1603-MHN-1A-ES06	As soon as construction activities allows. Downslope land condition to be determined on site	When next stage begins and LS is no longer required
FR	Fibre Roll	DWG. DC1603-MHN-1A-ES04 TO DC1603-MHN-1A-ES08	As soon as open drains are constructed	After site stabilisation
RCD	Rock Check Dam	DWG. DC1603-MHN-1A-ES04 TO DC1603-MHN-1A-ES08	As soon as construction activities allows. Provide geotextile splash pad and ensure 150mm is provided between centre and outer check dam wing.	After drain stabilisation
RFD	Rock Filter Dam	DWG. DC1603-MHN-1A-ES04, DC1603-MHN-1A-ES05 & DC1603-MHN-1A-ES06	Following installation of boundary sediment controls and prior to land clearing	After adequate stabilisation of contributing upslope catchment
Dust	Dust Suppression		At sufficient interval to suppress dust generation	N/A
Revegetation	Revegetation by native species grassing in any disturbed areas		As soon as practicable	N/A

**MONTHLY AND ANNUAL RAINFALL EROSIIVITY (R-FACTOR) VALUES**

DARWIN	12.42S, 130.87E	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	MEAN	4496	3512	2826	808	160	15	5	47	80	472	948	2355	15724
	% OF ANNUAL	29	22	18	5	1	0	0	0	1	3	6	15	
	2 yr ARI (MEDIAN)	3572	2781	2124	514	0	0	0	0	0	322	906	1775	11994
	3 yr ARI (66.6th PERCENTILE)	5624	3573	2754	978	120	0	0	0	0	466	1207	2542	
	4 yr ARI (75th PERCENTILE)	5961	4538	3720	1182	151	0	0	0	28	753	1325	3318	
	5 yr ARI (80th PERCENTILE)	6242	4735	4440	1553	202	0	0	0	112	933	1488	3667	
	10 yr ARI (90th PERCENTILE)	8517	6370	5988	1728	417	0	0	237	317	1262	1624	4968	


- EXTREME
- HIGH
- MODERATE
- LOW
- VERY LOW

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	C dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	



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Drawn	Date	Client
OAR	June 20	DEFENCE HOUSING AUSTRALIA
Checked	Date	Project
DMB	June 20	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed	Date	
OAR	June 20	LEE POINT ROAD, MUIRHEAD
Verified	Date	
AGO	June 20	CITY OF DARWIN
Approved	Date	Title
<i>Carlo de Syl</i>	23.04.2021	EROSION AND SEDIMENT CONTROL SEQUENCE TABLE AND R-FACTORS

Datum	Date	Scale	Size
AHD	July 2020	AS SHOWN	A1
Drawing Number		Revision	
DC1603-MHN-1A-ES02		E	

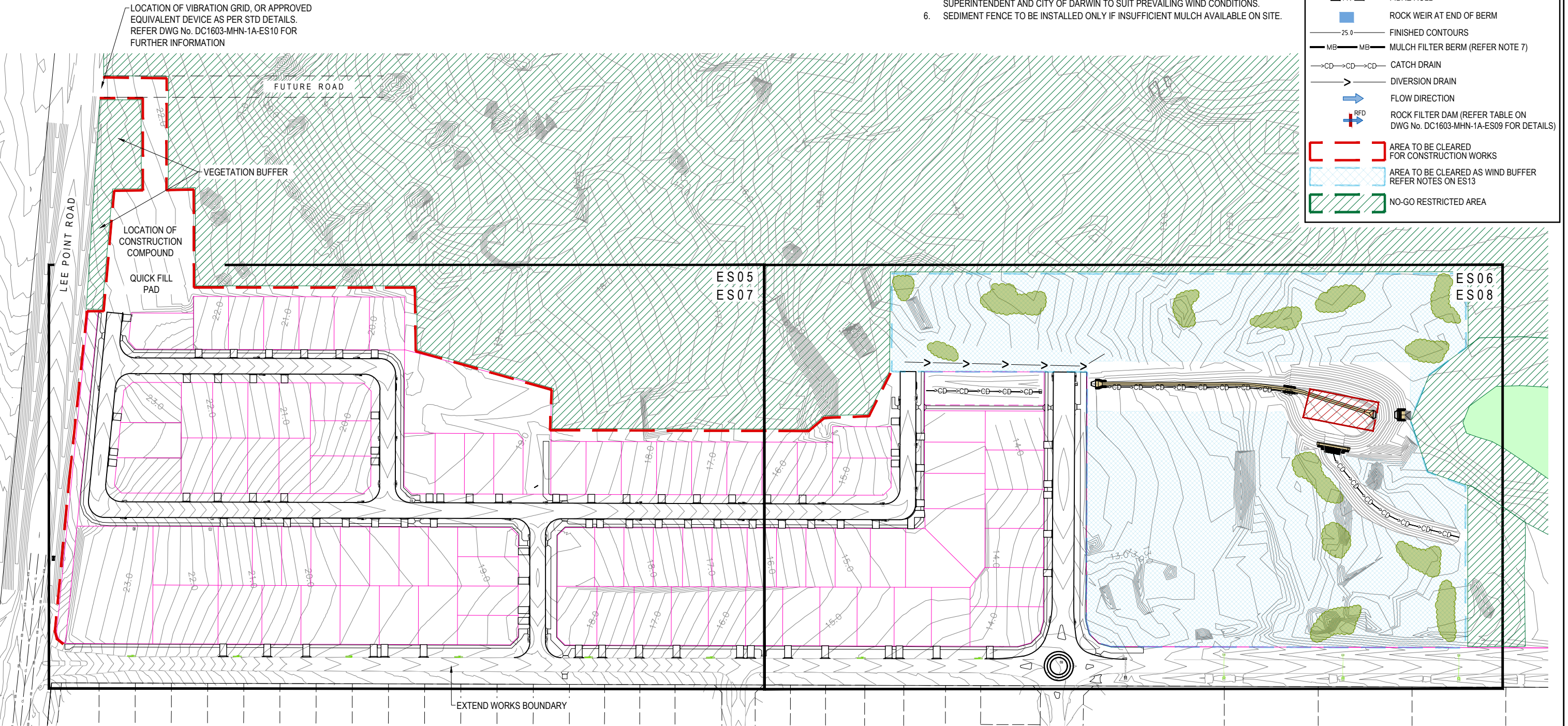
Status: **FOR CONSTRUCTION**

**NOTES**

1. REFER TO DWG No. DC1603-MHN-1A-ES01 TO ES02 FOR GENERAL NOTES.
2. REFER TO DWG No. DC1603-MHN-1A-ES03 FOR EROSION AND SEDIMENT CONTROL KEY PLAN.
3. REFER TO DWG No. DC1603-MHN-1A-ES04 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 1.  
 REFER TO DWG No. DC1603-MHN-1A-ES05 TO ES06 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 2.  
 REFER TO DWG No. DC1603-MHN-1A-ES07 TO ES08 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR POST CONSTRUCTION PHASE 3.
4. REFER TO DWG No. DC1603-MHN-1A-ES12 & ES13 FOR EROSION AND SEDIMENT CONTROL DETAILS NOTES.
5. DUST CONTROL FENCE TO BE ERECTED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT AND CITY OF DARWIN TO SUIT PREVAILING WIND CONDITIONS.
6. SEDIMENT FENCE TO BE INSTALLED ONLY IF INSUFFICIENT MULCH AVAILABLE ON SITE.

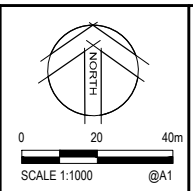
**LEGEND**

	SEDIMENT FENCE
	ON GRADE KERB INLET SEDIMENT TRAP
	SAG KERB INLET SEDIMENT TRAP
	FABRIC DROP INLET PROTECTION
	GULLY BAG INLET PROTECTION
	ROCK CHECK DAM
	FIBRE ROLL
	ROCK WEIR AT END OF BERM
	FINISHED CONTOURS
	MULCH FILTER BERM (REFER NOTE 7)
	CATCH DRAIN
	DIVERSION DRAIN
	FLOW DIRECTION
	ROCK FILTER DAM (REFER TABLE ON DWG No. DC1603-MHN-1A-ES09 FOR DETAILS)
	AREA TO BE CLEARED FOR CONSTRUCTION WORKS
	AREA TO BE CLEARED AS WIND BUFFER REFER NOTES ON ES13
	NO-GO RESTRICTED AREA



Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	C dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	

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Drawn	OAR	Date	June 20
Checked	DMB	Date	June 20
Designed	OAR	Date	June 20
Verified	AGO	Date	June 20
Approved	<i>Carlo de Sijl</i>	Date	23.04.2021

Client	DEFENCE HOUSING AUSTRALIA
Project	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
	LEE POINT ROAD, MUIRHEAD CITY OF DARWIN
Title	EROSION AND SEDIMENT CONTROL KEY PLAN

Status	<b>FOR CONSTRUCTION</b>				
Datum	AHD	Date	July 2020	Scale	AS SHOWN
Drawing Number	DC1603-MHN-1A-ES03			Size	A1
Revision					E

**NOTES**

1. THE CONTRACTOR IS TO IMPLEMENT PRE-CONSTRUCTION CONTROLS PRIOR TO COMMENCEMENT OF ANY EARTHWORKS ON SITE.
2. REFER TO DWG No. DC1603-MHN-1A-ES01 TO ES02 FOR GENERAL NOTES.
3. REFER TO DWG No. DC1603-MHN-1A-ES03 FOR EROSION AND SEDIMENT CONTROL KEY PLAN.
4. REFER TO DWG No. DC1603-MHN-1A-ES05 TO DC1603-MHN-1A-ES06 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 2. REFER TO DWG No. DC1603-MHN-1A-ES07 TO ES08 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 3.
5. REFER TO DWG No. DC1603-MHN-1A-ES09 TO ES11 FOR EROSION AND SEDIMENT CONTROL DETAILS.
6. REFER TO DWG No. DC1603-MHN-1A-ES12 & ES13 FOR EROSION AND SEDIMENT CONTROL DETAILS NOTES.
7. DUST CONTROL FENCE TO BE ERECTED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT AND CITY OF DARWIN TO SUIT PREVAILING WIND CONDITIONS.
8. SEDIMENT FENCE TO BE INSTALLED ONLY IF INSUFFICIENT MULCH AVAILABLE ON SITE.

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY APPROVALS FROM CITY OF DARWIN COUNCIL PRIOR TO CONSTRUCTION OF ANY SITE ACCESS IN THE LEE POINT ROAD ROAD RESERVE.

LOCATION OF CONSTRUCTION ENTRY / EXIT VIBRATION GRID, OR APPROVED EQUIVALENT DEVICE AS PER STD DETAILS. MAINTAIN FOR DURATION OF WORKS. REFER DWG No. DC1603-MHN-1A-ES10 FOR FURTHER INFORMATION.

EROSION AND SEDIMENT CONTROL DEVICES SHOWN FOR THE CONSTRUCTION COMPOUND AREA ARE TO BE MAINTAINED UNTIL COMPLETION OF WORKS.

RFD-1B AND RFD-1C LOCATIONS TO BE DETERMINED ON SITE IN CONJUNCTION WITH SUPERINTENDENT AND DEPWS.

CONSTRUCTION COMPOUND APPLY AND MAINTAIN A 50mm THICK LAYER OF 20mm ROCK MULCH TO ALL TRAFFICABLE AREAS.

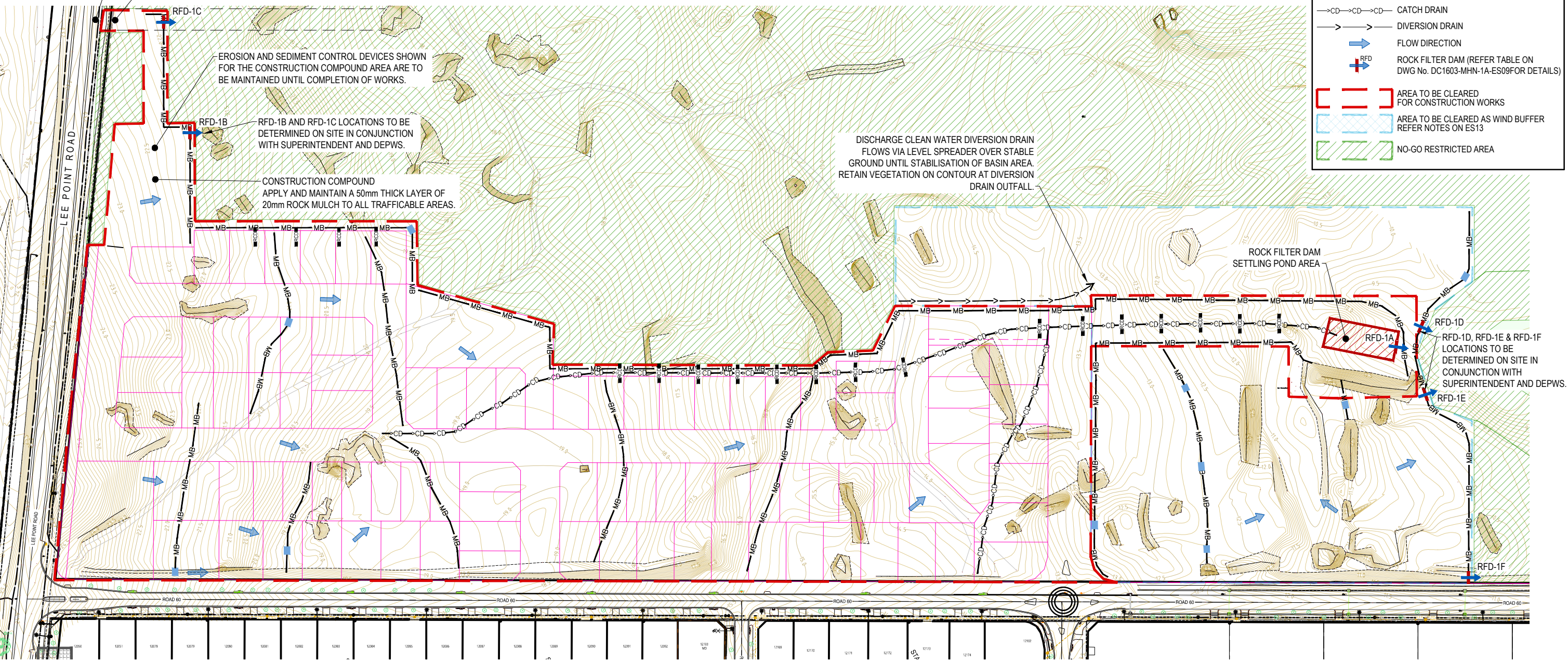
DISCHARGE CLEAN WATER DIVERSION DRAIN FLOWS VIA LEVEL SPREADER OVER STABLE GROUND UNTIL STABILISATION OF BASIN AREA. RETAIN VEGETATION ON CONTOUR AT DIVERSION DRAIN OUTFALL.

ROCK FILTER DAM SETTLING POND AREA

RFD-1D, RFD-1E & RFD-1F LOCATIONS TO BE DETERMINED ON SITE IN CONJUNCTION WITH SUPERINTENDENT AND DEPWS.

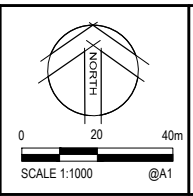
**LEGEND**

- OG SEDIMENT FENCE
- SA ON GRADE KERB INLET SEDIMENT TRAP
- FD SAG KERB INLET SEDIMENT TRAP
- GB FABRIC DROP INLET PROTECTION
- RCD ROCK CHECK DAM
- FR FIBRE ROLL
- Rock Weir at End of Berm
- 25.0 FINISHED CONTOURS
- MB-MB MULCH FILTER BERM (REFER NOTE 8)
- CD-Catch Drain
- > DIVERSION DRAIN
- Flow Direction
- RFD ROCK FILTER DAM (REFER TABLE ON DWG No. DC1603-MHN-1A-ES09 FOR DETAILS)
- Area to be Cleared for Construction Works
- Area to be Cleared as Wind Buffer Refer Notes on ES13
- No-go Restricted Area



Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C.dB	DMB	
D	15.03.21	FOR APPROVAL	C.dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	

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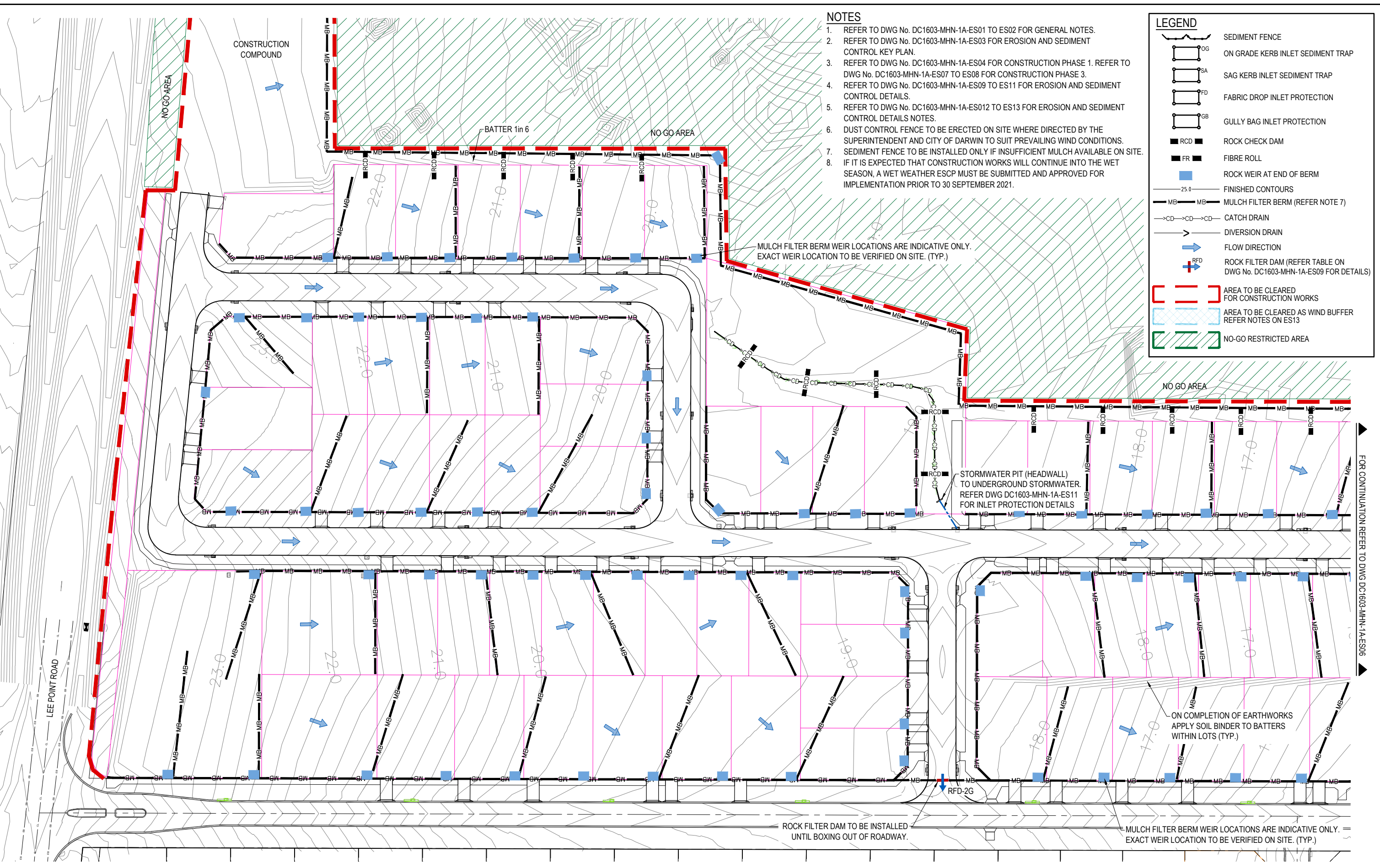
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Drawn	Date	Client
OAR	June 20	DEFENCE HOUSING AUSTRALIA
Checked	Date	Project
DMB	June 20	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed	Date	Location
OAR	June 20	LEE POINT ROAD, MUIRHEAD CITY OF DARWIN
Verified	Date	Title
AGO	June 20	EROSION AND SEDIMENT CONTROL PHASE 1 - PRE CONSTRUCTION LAYOUT PLAN
Approved	Date	
<i>Carlo di S. / CPESC 7619</i>	23.04.2021	

Datum	Date	Scale	Size
AHD	July 2020	AS SHOWN	A1
Drawing Number	Revision		
DC1603-MHN-1A-ES04	E		

**FOR CONSTRUCTION**



**NOTES**

1. REFER TO DWG No. DC1603-MNH-1A-ES01 TO ES02 FOR GENERAL NOTES.
2. REFER TO DWG No. DC1603-MNH-1A-ES03 FOR EROSION AND SEDIMENT CONTROL KEY PLAN.
3. REFER TO DWG No. DC1603-MNH-1A-ES04 FOR CONSTRUCTION PHASE 1. REFER TO DWG No. DC1603-MNH-1A-ES07 TO ES08 FOR CONSTRUCTION PHASE 3.
4. REFER TO DWG No. DC1603-MNH-1A-ES09 TO ES11 FOR EROSION AND SEDIMENT CONTROL DETAILS.
5. REFER TO DWG No. DC1603-MNH-1A-ES12 TO ES13 FOR EROSION AND SEDIMENT CONTROL DETAILS NOTES.
6. DUST CONTROL FENCE TO BE ERECTED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT AND CITY OF DARWIN TO SUIT PREVAILING WIND CONDITIONS.
7. SEDIMENT FENCE TO BE INSTALLED ONLY IF INSUFFICIENT MULCH AVAILABLE ON SITE.
8. IF IT IS EXPECTED THAT CONSTRUCTION WORKS WILL CONTINUE INTO THE WET SEASON, A WET WEATHER ESCP MUST BE SUBMITTED AND APPROVED FOR IMPLEMENTATION PRIOR TO 30 SEPTEMBER 2021.

**LEGEND**

- SEDIMENT FENCE
- ON GRADE KERB INLET SEDIMENT TRAP
- SAG KERB INLET SEDIMENT TRAP
- FABRIC DROP INLET PROTECTION
- GULLY BAG INLET PROTECTION
- ROCK CHECK DAM
- FIBRE ROLL
- ROCK WEIR AT END OF BERM
- FINISHED CONTOURS
- MULCH FILTER BERM (REFER NOTE 7)
- CATCH DRAIN
- DIVERSION DRAIN
- FLOW DIRECTION
- ROCK FILTER DAM (REFER TABLE ON DWG No. DC1603-MNH-1A-ES09 FOR DETAILS)
- AREA TO BE CLEARED FOR CONSTRUCTION WORKS
- AREA TO BE CLEARED AS WIND BUFFER REFER NOTES ON ES13
- NO-GO RESTRICTED AREA

MULCH FILTER BERM WEIR LOCATIONS ARE INDICATIVE ONLY. EXACT WEIR LOCATION TO BE VERIFIED ON SITE. (TYP.)

STORMWATER PIT (HEADWALL) TO UNDERGROUND STORMWATER. REFER DWG DC1603-MNH-1A-ES11 FOR INLET PROTECTION DETAILS

ROCK FILTER DAM TO BE INSTALLED UNTIL BOXING OUT OF ROADWAY.

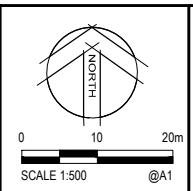
MULCH FILTER BERM WEIR LOCATIONS ARE INDICATIVE ONLY. EXACT WEIR LOCATION TO BE VERIFIED ON SITE. (TYP.)

ON COMPLETION OF EARTHWORKS APPLY SOIL BINDER TO BATTERS WITHIN LOTS (TYP.)

FOR CONTINUATION REFER TO DWG DC1603-MNH-1A-ES06

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	OAR	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	

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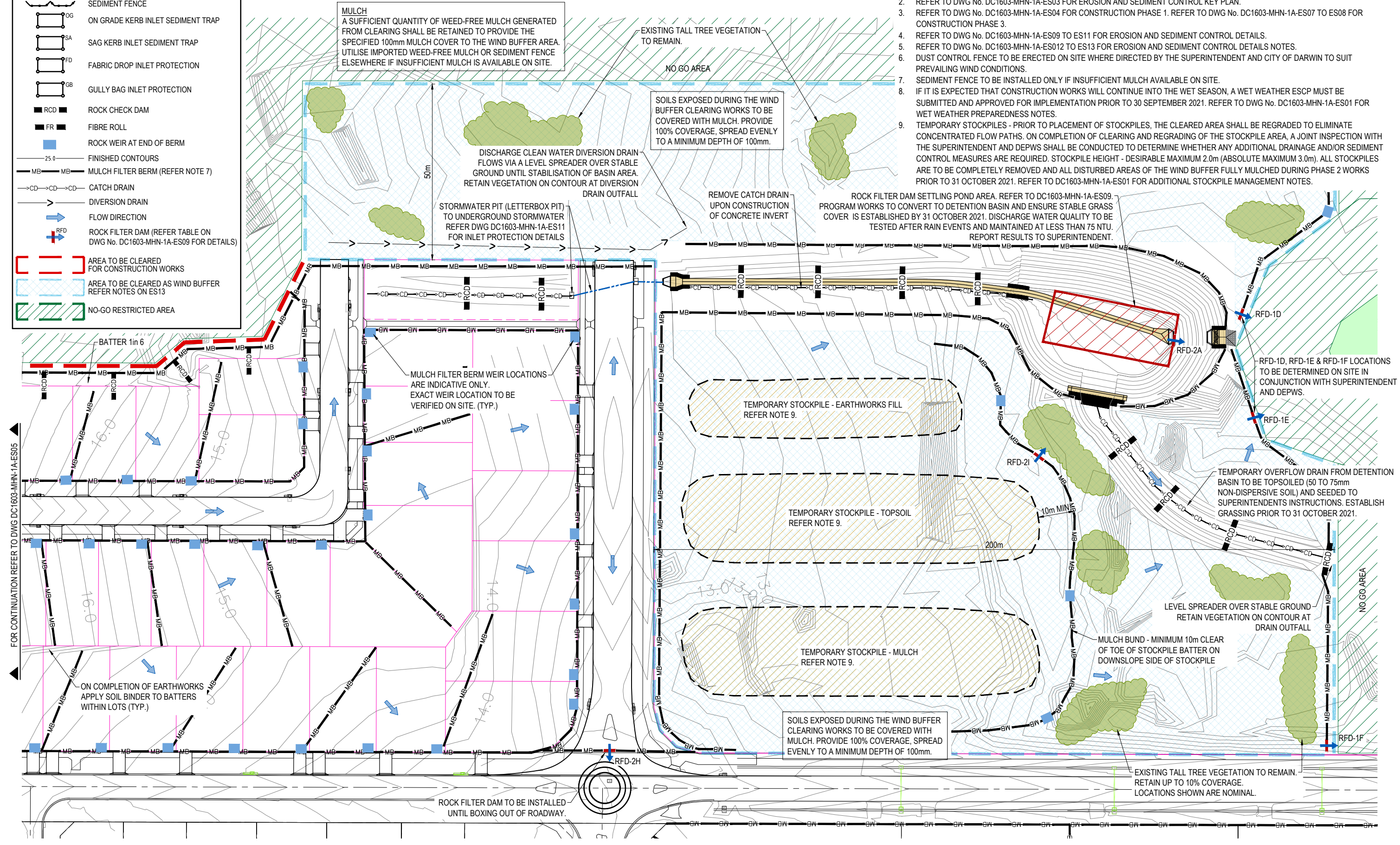
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Drawn	OAR	Date	June 20
Checked	DMB	Date	June 20
Designed	OAR	Date	June 20
Verified	AGO	Date	June 20
Approved	<i>Carlo de Sijl</i>	Date	23.04.2021

Client: DEFENCE HOUSING AUSTRALIA  
 Project: MUIRHEAD NORTH DEVELOPMENT - STAGE 1A  
 LEE POINT ROAD, MUIRHEAD  
 CITY OF DARWIN  
 Title: EROSION AND SEDIMENT CONTROL PLAN  
 CONSTRUCTION PHASE 2  
 SHEET 1 OF 2

Status: <b>FOR CONSTRUCTION</b>			
Datum	AHD	Date	July 2020
Scale	AS SHOWN	Size	A1
Drawing Number	DC1603-MNH-1A-ES05		Revision
			E

LEGEND	
	SEDIMENT FENCE
	ON GRADE KERB INLET SEDIMENT TRAP
	SAG KERB INLET SEDIMENT TRAP
	FABRIC DROP INLET PROTECTION
	GULLY BAG INLET PROTECTION
	ROCK CHECK DAM
	FIBRE ROLL
	ROCK WEIR AT END OF BERM
	FINISHED CONTOURS
	MULCH FILTER BERM (REFER NOTE 7)
	CATCH DRAIN
	DIVERSION DRAIN
	FLOW DIRECTION
	ROCK FILTER DAM (REFER TABLE ON DWG No. DC1603-MHN-1A-ES09 FOR DETAILS)
	AREA TO BE CLEARED FOR CONSTRUCTION WORKS
	AREA TO BE CLEARED AS WIND BUFFER REFER NOTES ON ES13
	NO-GO RESTRICTED AREA



- NOTES**
- REFER TO DWG No. DC1603-MHN-1A-ES01 TO ES02 FOR GENERAL NOTES.
  - REFER TO DWG No. DC1603-MHN-1A-ES03 FOR EROSION AND SEDIMENT CONTROL KEY PLAN.
  - REFER TO DWG No. DC1603-MHN-1A-ES04 FOR CONSTRUCTION PHASE 1. REFER TO DWG No. DC1603-MHN-1A-ES07 TO ES08 FOR CONSTRUCTION PHASE 3.
  - REFER TO DWG No. DC1603-MHN-1A-ES09 TO ES11 FOR EROSION AND SEDIMENT CONTROL DETAILS.
  - REFER TO DWG No. DC1603-MHN-1A-ES012 TO ES13 FOR EROSION AND SEDIMENT CONTROL DETAILS NOTES.
  - DUST CONTROL FENCE TO BE ERECTED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT AND CITY OF DARWIN TO SUIT PREVAILING WIND CONDITIONS.
  - SEDIMENT FENCE TO BE INSTALLED ONLY IF INSUFFICIENT MULCH AVAILABLE ON SITE.
  - IF IT IS EXPECTED THAT CONSTRUCTION WORKS WILL CONTINUE INTO THE WET SEASON, A WET WEATHER ESCP MUST BE SUBMITTED AND APPROVED FOR IMPLEMENTATION PRIOR TO 30 SEPTEMBER 2021. REFER TO DWG No. DC1603-MHN-1A-ES01 FOR WET WEATHER PREPAREDNESS NOTES.
  - TEMPORARY STOCKPILES - PRIOR TO PLACEMENT OF STOCKPILES, THE CLEARED AREA SHALL BE REGRADED TO ELIMINATE CONCENTRATED FLOW PATHS. ON COMPLETION OF CLEARING AND REGRADED OF THE STOCKPILE AREA, A JOINT INSPECTION WITH THE SUPERINTENDENT AND DEPWS SHALL BE CONDUCTED TO DETERMINE WHETHER ANY ADDITIONAL DRAINAGE AND/OR SEDIMENT CONTROL MEASURES ARE REQUIRED. STOCKPILE HEIGHT - DESIRABLE MAXIMUM 2.0m (ABSOLUTE MAXIMUM 3.0m). ALL STOCKPILES ARE TO BE COMPLETELY REMOVED AND ALL DISTURBED AREAS OF THE WIND BUFFER FULLY MULCHED DURING PHASE 2 WORKS PRIOR TO 31 OCTOBER 2021. REFER TO DC1603-MHN-1A-ES01 FOR ADDITIONAL STOCKPILE MANAGEMENT NOTES.

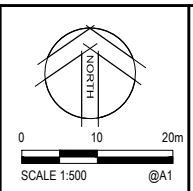
FOR CONTINUATION REFER TO DWG DC1603-MHN-1A-ES05

DATE PLOTTED: 23 April 2021 11:10 AM BY: OLIVER REISINGER

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	C dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
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Defence Housing Australia

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Drawn	OAR	Date	June 20
Checked	DMB	Date	June 20
Designed	OAR	Date	June 20
Verified	AGO	Date	June 20
Approved		Date	23.04.2021

Client **DEFENCE HOUSING AUSTRALIA**

Project **MUIRHEAD NORTH DEVELOPMENT - STAGE 1A**

Location **LEE POINT ROAD, MUIRHEAD CITY OF DARWIN**

Title **EROSION AND SEDIMENT CONTROL PLAN CONSTRUCTION PHASE 2 SHEET 2 OF 2**

Status	<b>FOR CONSTRUCTION</b>			
Datum	AHD	Date	July 2020	
Scale	AS SHOWN	Size	A1	
Drawing Number	DC1603-MHN-1A-ES06		Revision	E

FOLLOWING DECOMMISSIONING OF THE CONSTRUCTION COMPOUND, AREA TO BE TOPSOILED (50 TO 75mm NON-DISPERSIVE SOIL) AND SEEDED OR STABILISED TO SUPERINTENDENTS INSTRUCTIONS.

CONSTRUCTION COMPOUND

NO GO AREA

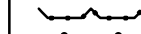

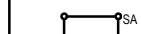


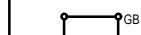
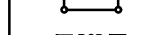




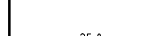
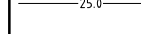
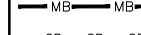
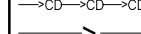

BATTER 1 in 6

NO GO AREA

**NOTES**

1. THE CONTRACTOR IS TO PROGRESSIVELY IMPLEMENT POST-CONSTRUCTION CONTROLS AS WORK ON THE LOTS IS COMPLETED.
2. REFER TO DWG No. DC1603-MHN-1A-ES01 TO ES02 FOR GENERAL NOTES.
3. REFER TO DWG No. DC1603-MHN-1A-ES03 FOR EROSION AND SEDIMENT CONTROL KEY PLAN.
4. REFER TO DWG No. DC1603-MHN-1A-ES04 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 1. REFER TO DWG No. DC1603-MHN-1A-ES05 TO ES06 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 2.
5. REFER TO DWG No. DC1603-MHN-1A-ES12 TO ES13 FOR EROSION AND SEDIMENT CONTROL DETAILS NOTES.
6. DUST CONTROL FENCE TO BE ERECTED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT AND CITY OF DARWIN TO SUIT PREVAILING WIND CONDITIONS.
7. SEDIMENT FENCE TO BE INSTALLED ONLY IF INSUFFICIENT MULCH AVAILABLE ON SITE.
8. DOWNSLOPE BOUNDARY SEDIMENT CONTROLS TO REMAIN IN PLACE AND FUNCTIONAL UNTIL ADEQUATE STABILISATION OF CONTRIBUTING UPSLOPE CATCHMENT.
9. WHERE APPROPRIATE BINDER OR STABILISER IS APPLIED TO ACHIEVE ADEQUATE COVER, THE AREA SHALL BE FLAGGED / FENCED OFF TO PREVENT VEHICULAR TRAFFIC.
10. ALL AREAS DISTURBED DURING THE STAGE 1A WORKS THAT REMAIN EXPOSED BEYOND 30 NOVEMBER ARE TO BE INSPECTED BY DEPWS REPRESENTATIVES TO CONFIRM THE LEVEL OF EROSION AND SEDIMENT CONTROL MEASURES / DEVICES TO BE IMPLEMENTED FOR THE WET SEASON.

**LEGEND**

-  SEDIMENT FENCE
-  ON GRADE KERB INLET SEDIMENT TRAP
-  SAG KERB INLET SEDIMENT TRAP
-  FABRIC DROP INLET PROTECTION
-  GULLY BAG INLET PROTECTION
-  ROCK CHECK DAM
-  FIBRE ROLL
-  ROCK WEIR AT END OF BERM
-  0.9m WIDE GRASS FILTER STRIP REFER TO LANDSCAPING DRAWINGS FOR VERGE AREAS BEYOND FILTER STRIP
-  25.0 FINISHED CONTOURS
-  MB MULCH FILTER BERM (REFER NOTE 7)
-  CD CATCH DRAIN
-  DD DIVERSION DRAIN
-  AREA TO BE CLEARED FOR CONSTRUCTION WORKS
-  AREA TO BE CLEARED AS WIND BUFFER REFER NOTES ON ES13
-  NO-GO RESTRICTED AREA

OPEN SPACE AREA TO BE VEGETATED / STABILISED TO APPROVED LANDSCAPE ARCHITECTS DRAWINGS.

INTERFACE AREAS / BATTERS (OUTSIDE OF LOT AREAS) TO BE TOPSOILED (50 TO 75mm NON-DISPERSIVE SOIL) AND SEEDED, MULCHED OR STABILISED TO SUPERINTENDENTS INSTRUCTIONS.

NO GO AREA

STORMWATER PIT (HEADWALL) TO UNDERGROUND STORMWATER. REFER DWG DC1603-MHN-1A-ES11 FOR INLET PROTECTION DETAILS

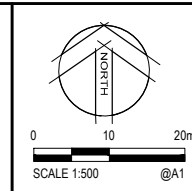
FOR CONTINUATION REFER TO DWG DC1603-MHN-1A-ES08

MULCH FILTER BERM WEIR LOCATIONS ARE INDICATIVE ONLY. EXACT WEIR LOCATION TO BE VERIFIED ON SITE. (TYP.)

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C.dB	DMB	
D	15.03.21	FOR APPROVAL	C.dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	



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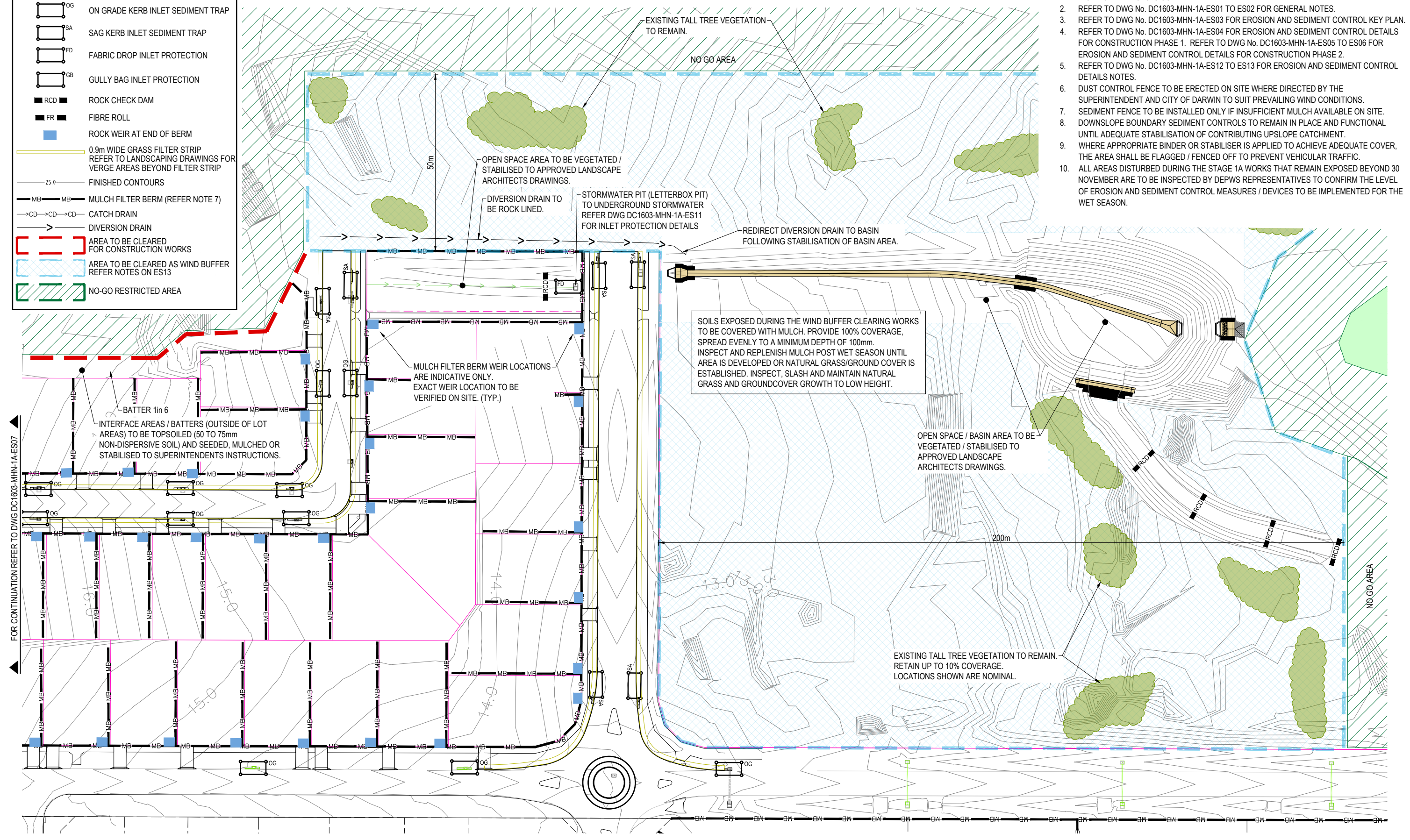
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OAR	June 20	DEFENCE HOUSING AUSTRALIA
Checked	Date	Project
DMB	June 20	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed	Date	Location
OAR	June 20	LEE POINT ROAD, MUIRHEAD CITY OF DARWIN
Verified	Date	Title
AGO	June 20	EROSION AND SEDIMENT CONTROL PLAN POST CONSTRUCTION PHASE 3 SHEET 1 OF 2
Approved	Date	
<i>Carlo de Sijl</i>	23.04.2021	

Date	Scale	Size
July 2020	AS SHOWN	A1
Drawing Number		
DC1603-MHN-1A-ES07		
Revision		
E		

Status: **FOR CONSTRUCTION**

**LEGEND**

	SEDIMENT FENCE
	ON GRADE KERB INLET SEDIMENT TRAP
	SAG KERB INLET SEDIMENT TRAP
	FABRIC DROP INLET PROTECTION
	GULLY BAG INLET PROTECTION
	ROCK CHECK DAM
	FIBRE ROLL
	ROCK WEIR AT END OF BERM
	0.9m WIDE GRASS FILTER STRIP REFER TO LANDSCAPING DRAWINGS FOR VERGE AREAS BEYOND FILTER STRIP
	25.0 FINISHED CONTOURS
	MB MULCH FILTER BERM (REFER NOTE 7)
	CD CATCH DRAIN
	DD DIVERSION DRAIN
	AREA TO BE CLEARED FOR CONSTRUCTION WORKS
	AREA TO BE CLEARED AS WIND BUFFER REFER NOTES ON ES13
	NO-GO RESTRICTED AREA

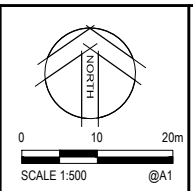


- NOTES**
- THE CONTRACTOR IS TO PROGRESSIVELY IMPLEMENT POST-CONSTRUCTION CONTROLS AS WORK ON THE LOTS IS COMPLETED.
  - REFER TO DWG No. DC1603-MHN-1A-ES01 TO ES02 FOR GENERAL NOTES.
  - REFER TO DWG No. DC1603-MHN-1A-ES03 FOR EROSION AND SEDIMENT CONTROL KEY PLAN.
  - REFER TO DWG No. DC1603-MHN-1A-ES04 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 1. REFER TO DWG No. DC1603-MHN-1A-ES05 TO ES06 FOR EROSION AND SEDIMENT CONTROL DETAILS FOR CONSTRUCTION PHASE 2.
  - REFER TO DWG No. DC1603-MHN-1A-ES12 TO ES13 FOR EROSION AND SEDIMENT CONTROL DETAILS NOTES.
  - DUST CONTROL FENCE TO BE ERECTED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT AND CITY OF DARWIN TO SUIT PREVAILING WIND CONDITIONS.
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  - ALL AREAS DISTURBED DURING THE STAGE 1A WORKS THAT REMAIN EXPOSED BEYOND 30 NOVEMBER ARE TO BE INSPECTED BY DEPWS REPRESENTATIVES TO CONFIRM THE LEVEL OF EROSION AND SEDIMENT CONTROL MEASURES / DEVICES TO BE IMPLEMENTED FOR THE WET SEASON.

XREFS: XR-TITLE: DESIGN CONTOURS ST6-7; CH 8052-1; NEW MUIRHEAD BASE 28-9-16; MHN 1A LOT LAYOUT; XR-MHN-STORMWATER; 12d out road and drain changes  
 CAD File: C:\PROJECTS\HBC\_2016\Projects\DC1603\_2CRU\Design\Drawings\MHN Design\DC1603-MHN-1A-ES08.dwg  
 FOR CONTINUATION REFER TO DWG DC1603-MHN-1A-ES07

Rev.	Date	Description	Des.	Verif.	Appd.
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D	15.03.21	FOR APPROVAL	C dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	

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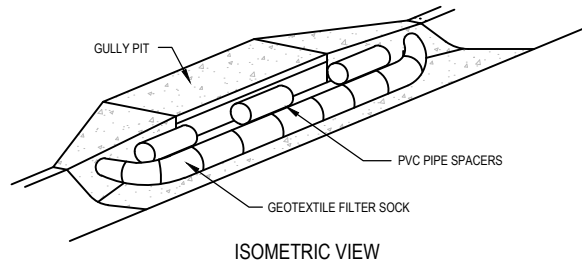
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OAR	June 20	DEFENCE HOUSING AUSTRALIA
Checked	Date	Project
DMB	June 20	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed	Date	Location
OAR	June 20	LEE POINT ROAD, MUIRHEAD CITY OF DARWIN
Verified	Date	Title
AGO	June 20	EROSION AND SEDIMENT CONTROL PLAN POST CONSTRUCTION PHASE 3 SHEET 2 OF 2
Approved	Date	
<i>Carlo de Sijl</i>	23.04.2021	

Datum	Date	Scale	Size
AHD	July 2020	AS SHOWN	A1
Drawing Number	Revision		
DC1603-MHN-1A-ES08	E		

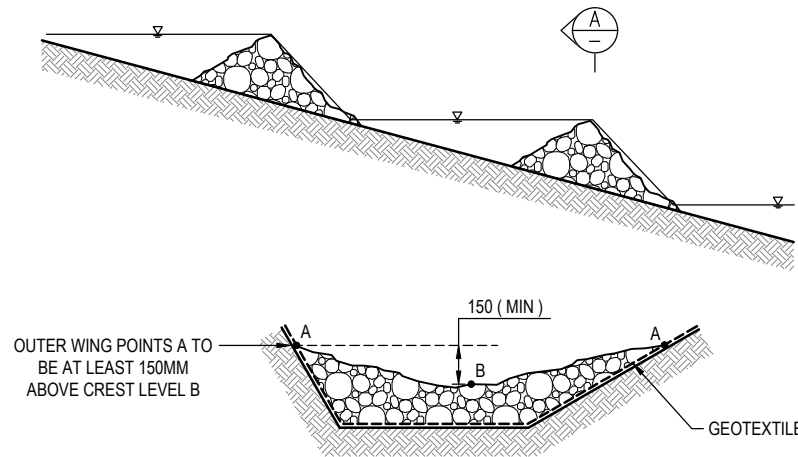
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Datum	Date	Scale	Size
AHD	July 2020	AS SHOWN	A1
Drawing Number	Revision		
DC1603-MHN-1A-ES08	E		





REFER DWG. NO. DC1603-MHN-1A-ES13 AND IECA BPESC STD. DWG. SD-SA-01 FOR FURTHER INFORMATION.

**SAG KERB INLET SEDIMENT TRAP**  
N.T.S.



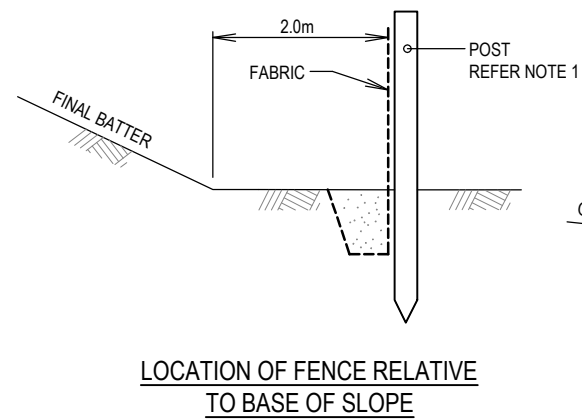
**SECTION A**  
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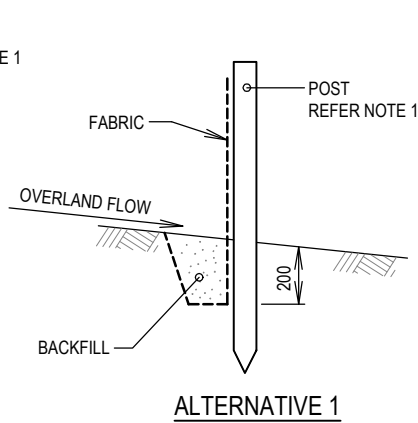
**ROCK CHECK DAM**  
N.T.S.

**DIMENSIONS - ROCK CHECK DAM**

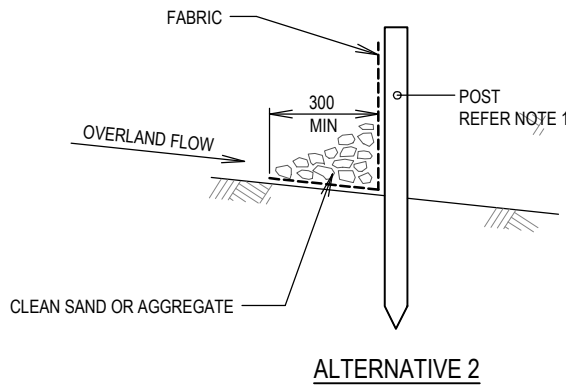
- MAXIMUM HEIGHT OF 0.5m UNLESS FORMALLY DESIGNED.
- MAXIMUM HEIGHT 1m IF FORMALLY DESIGNED.
- WEIR INVERT TO BE AT LEAST 150mm LOWER THAN OUTER EDGES.
- MAXIMUM BANK SLOPE OF 2(H): 1(V).
- ROCK 150mm-300mm NOMINAL DIAMETER, HARD, EROSION RESISTANT ROCK. SMALLER ROCK MAY BE USED IF SUITABLE LARGE ROCK IS NOT AVAILABLE



**LOCATION OF FENCE RELATIVE TO BASE OF SLOPE**



**ALTERNATIVE 1**



**ALTERNATIVE 2**

**ANCHORING BASE OF FABRIC**

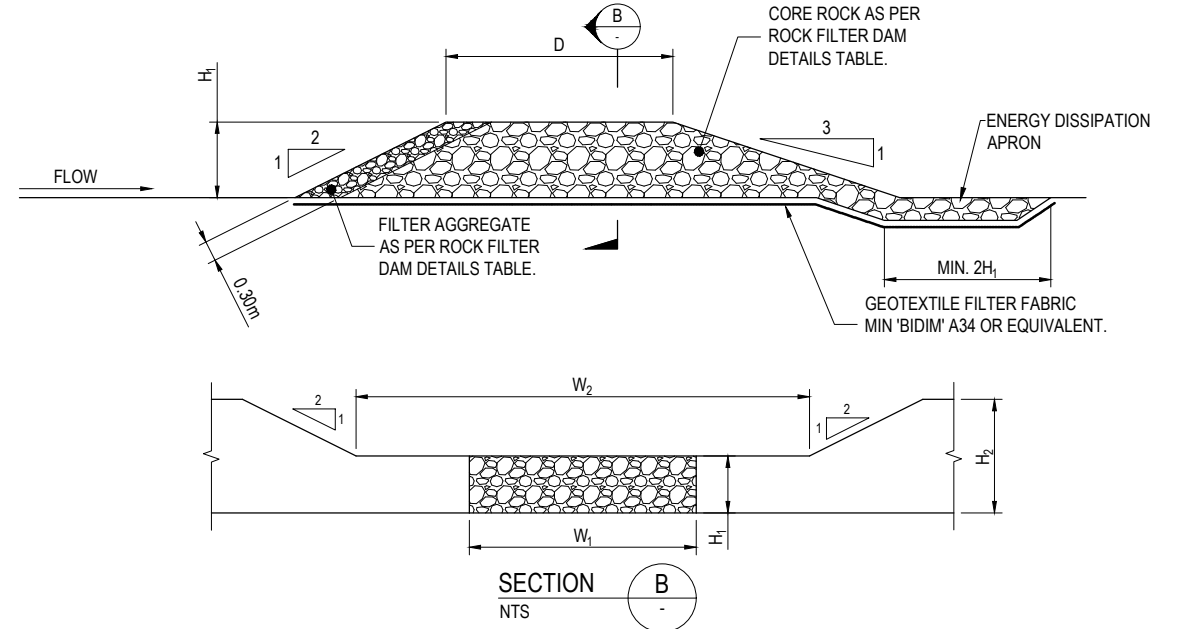
**NOTES**

1. POSTS ARE TO BE STAR PICKETS OR 50x50 MIN. TIMBER STAKES. STEEL DROPPERS ARE NOT TO BE USED.
2. REFER DWG. NO. DC1603-MHN-1A-ES12 AND IECA BPESC STD. DWG. SD-SF-01 AND SD-SF-02 FOR FURTHER INFORMATION.

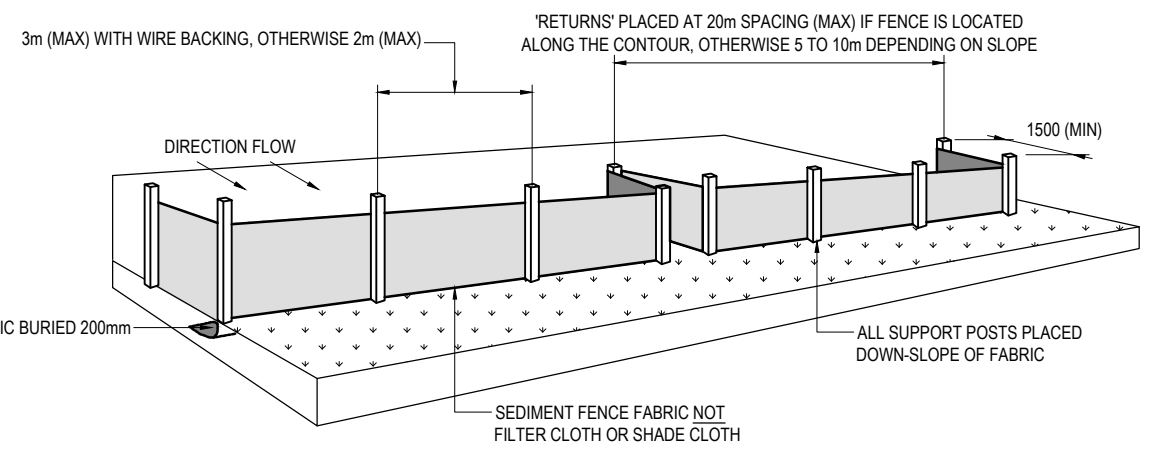
**ROCK FILTER DAM DETAILS TABLE**

DEVICE ID	CATCHMENT ID	MIN. SETTLING POND SURFACE AREA	SUGGESTED SETTLING POND LENGTH	SUGGESTED SETTLING POND WIDTH	DEVICE THICKNESS (IN DIRECTION OF FLOW) (D)	HEIGHT OF ROCK FILTER (WEIR) (H <sub>1</sub> )	FILTER AGGREGATE SIZE	MIN. THICKNESS OF FILTER AGGREGATE	MIN. CORE ROCK SIZE	WIDTH OF FILTER DAM (W <sub>1</sub> )	SPILLWAY LENGTH (W <sub>2</sub> )	SPILLWAY DEPTH	EMBANKMENT HEIGHT (H <sub>2</sub> )
RFD-1A	1A	550m <sup>2</sup>	15.0m	37.0m	MIN. 1.50m	0.50m	25mm	0.30m	225mm	15.0m	15.0m	0.35m	0.85m
RFD-1B	1B	27m <sup>2</sup>	10.0m	3.0m	MIN. 1.50m	0.30m	25mm	0.30m	225mm	3.5m	3.5m	0.20m	0.50m
RFD-1C	1C	18m <sup>2</sup>	10.0m	2.0m	MIN. 1.50m	0.30m	25mm	0.30m	225mm	3.5m	3.5m	0.20m	0.50m
RFD-1D	1D	102m <sup>2</sup>	5.0m	21.0m	MIN. 1.50m	0.50m	25mm	0.30m	225mm	5.0m	5.0m	0.30m	0.80m
RFD-1E	1E	119m <sup>2</sup>	5.0m	24.0m	MIN. 1.50m	0.50m	25mm	0.30m	225mm	5.0m	5.0m	0.30m	0.80m
RFD-1F	1F	34m <sup>2</sup>	5.0m	7.0m	MIN. 1.50m	0.30m	25mm	0.30m	225mm	5.0m	5.0m	0.20m	0.50m
RFD-2A	2A	404m <sup>2</sup>	15.0m	27.0m	MIN. 1.50m	0.50m	25mm	0.30m	225mm	15.0m	15.0m	0.30m	0.80m
RFD-2G	2G	68m <sup>2</sup>	5.0m	14.0m	MIN. 1.50m	0.30m	25mm	0.30m	225mm	5.0m	5.0m	0.25m	0.55m
RFD-2H	2H	90m <sup>2</sup>	5.0m	18.0m	MIN. 1.50m	0.30m	25mm	0.30m	225mm	5.0m	5.0m	0.25m	0.55m
RFD-2I	2I	115m <sup>2</sup>	10.0m	12.0m	MIN. 1.50m	0.30m	25mm	0.30m	225mm	10.0m	10.0m	0.20m	0.50m

- REFER TYPICAL ROCK FILTER DAM OUTLET WEIR DETAILS FOR LOCATION OF VARIABLES 'D' 'H<sub>1</sub>' 'H<sub>2</sub>' 'W<sub>1</sub>' AND 'W<sub>2</sub>' FROM THE ABOVE TABLE.
- OFF-LINE ROCK FILTER DAM DETAILS BASED ON 3 MONTH ARI PEAK FLOWS FILTERING THROUGH FILTER AGGREGATE, WITH SPILLWAY SIZED FOR 2 YEAR ARI PEAK FLOWS.
- SUITABILITY OF DEVICE AND DEVICE DETAILS TO BE CONFIRMED ON SITE.
- REFER IECA STD DWG SD-RFD-01 AND SD-RFD-02 FOR TYPICAL ROCK FILTER DAM DETAILS



**TYPICAL ROCK FILTER DAM OUTLET WEIR**  
N.T.S.



**INSTALLATION OF SEDIMENT FENCE**  
N.T.S.

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	C dB	DMB	
C	02.12.20	FOR APPROVAL	OAR	DMB	
B	13.11.20	FOR APPROVAL	OAR	DMB	
A	23.09.19	FOR REVIEW	OAR	DMB	

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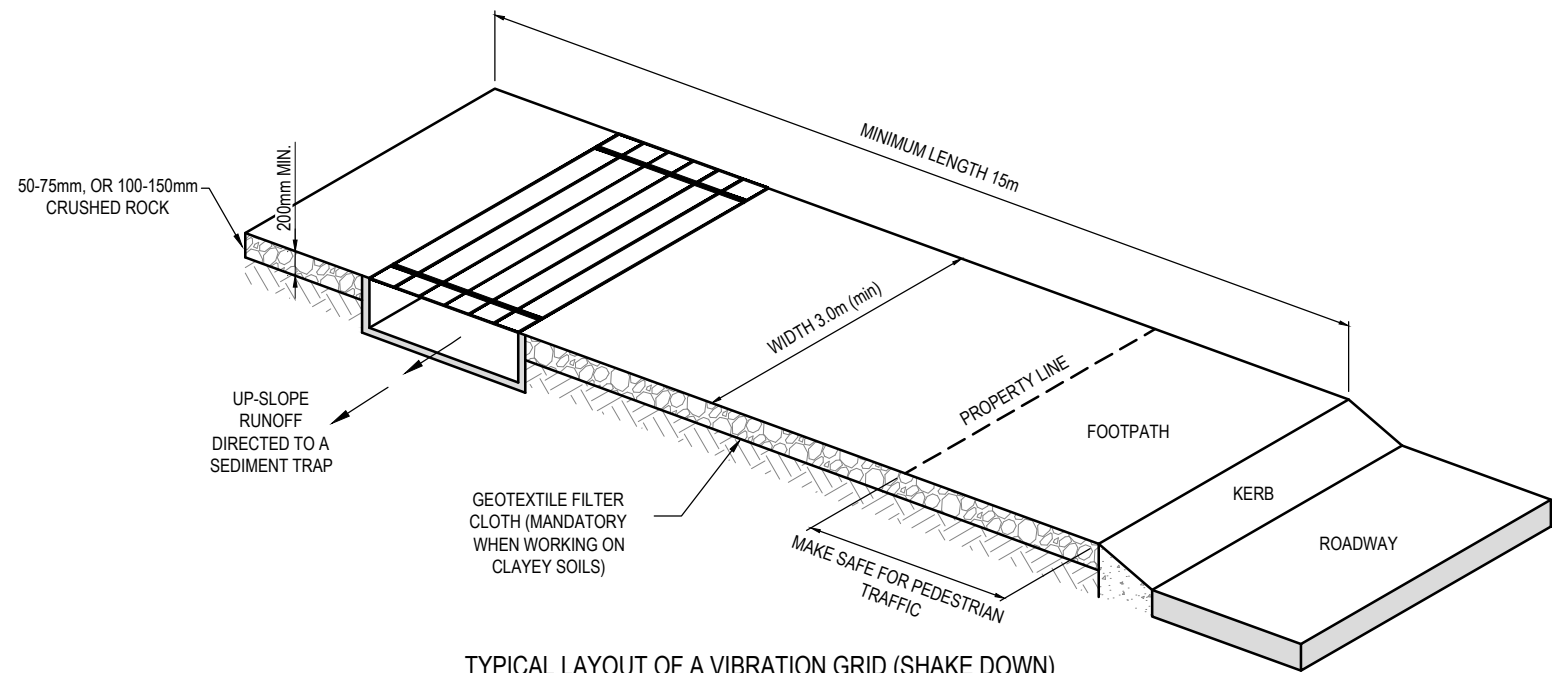
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Checked	DMB	Date	June 20
Designed	OAR	Date	June 20
Verified	AGO	Date	June 20
Approved	<i>Carlo de Sijl</i>	Date	23.04.2021

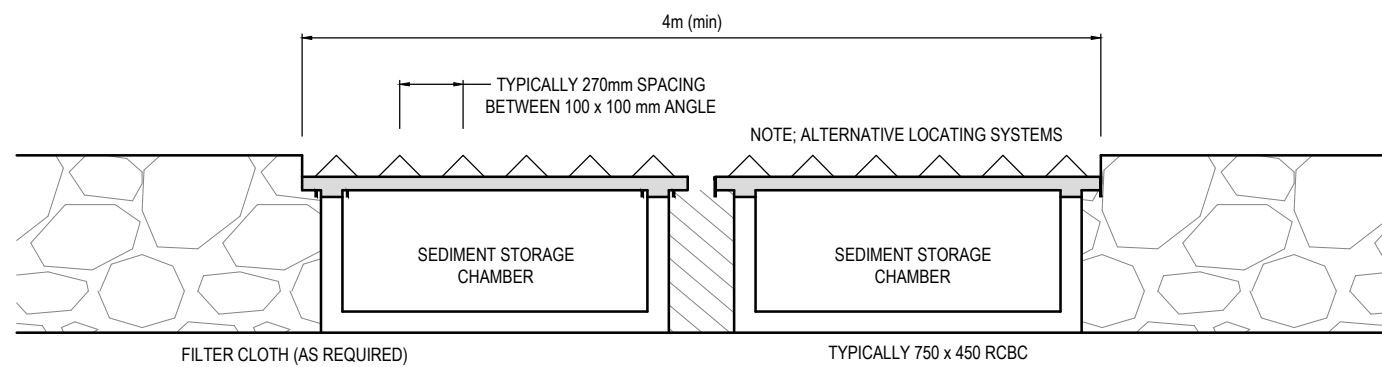
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Project: MUIRHEAD NORTH DEVELOPMENT - STAGE 1A  
Lee Point Road, Muirhead  
City of Darwin  
Title: EROSION AND SEDIMENT CONTROL DETAILS  
SHEET 1 OF 3

Status: <b>FOR CONSTRUCTION</b>				
Datum	AHD	Date	July 2020	
Scale	AS SHOWN	Size	A1	
Drawing Number	DC1603-MHN-1A-ES09		Revision	E

DATE PLOTTED: 23 April 2021 11:11 AM BY: OLIVER REISINGER

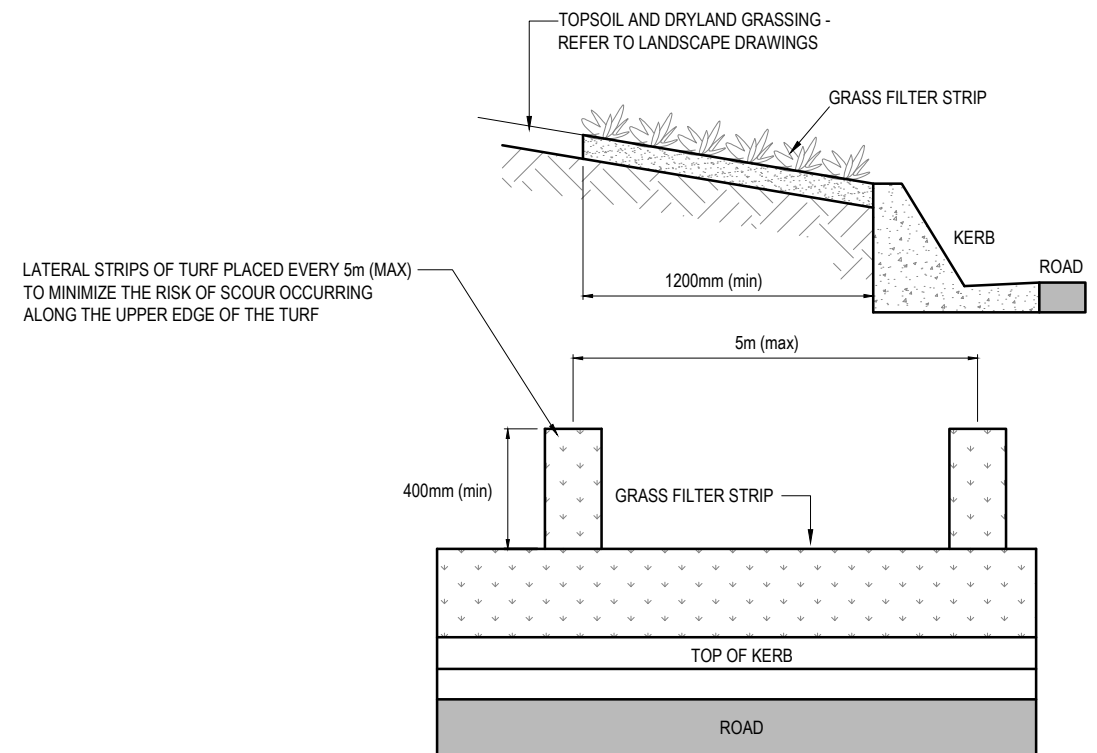


TYPICAL LAYOUT OF A VIBRATION GRID (SHAKE DOWN)  
N.T.S.



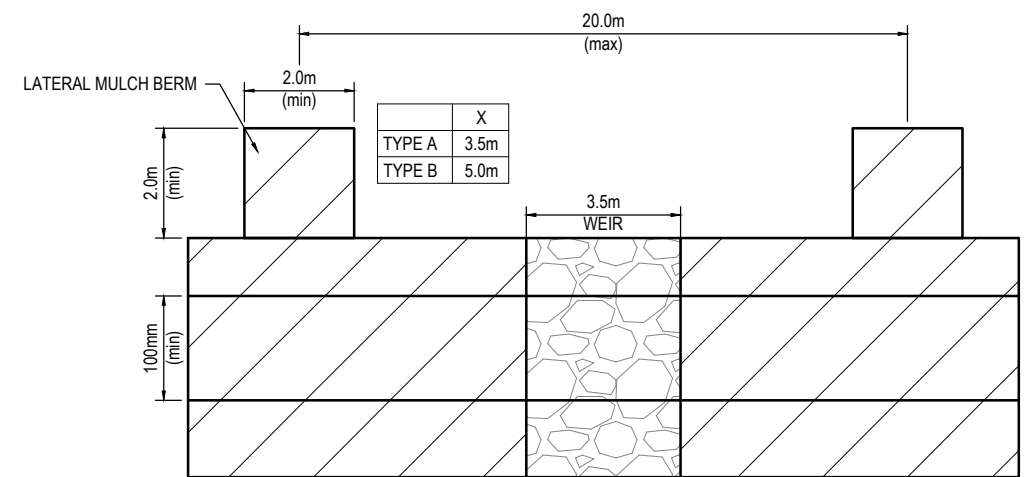
REFER DWG. NO. DC1603-MHN-1A-ES12 AND IECA BPESC STD. DWG. SD-EXIT-04 AND SD-EXIT-05 FOR FURTHER INFORMATION.

TYPICAL PROFILE OF VIBRATION PANELS  
N.T.S.

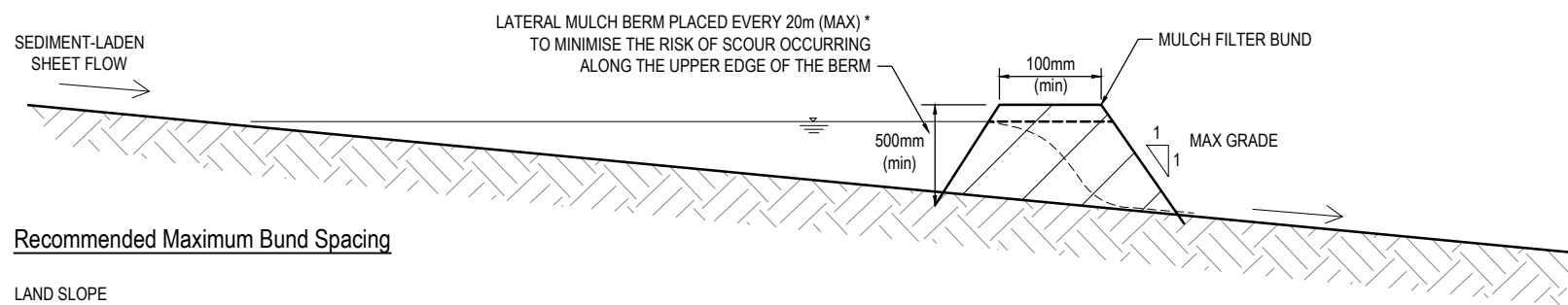


REFER DWG. NO. DC1603-MHN-1A-ES12 AND IECA BPESC STD. DWG. SD-GFS-01 AND SD-GFS-02 FOR FURTHER INFORMATION.

PLACEMENT OF GRASS FILTER STRIPS ALONG EDGE OF IMPERVIOUS SURFACE  
N.T.S.

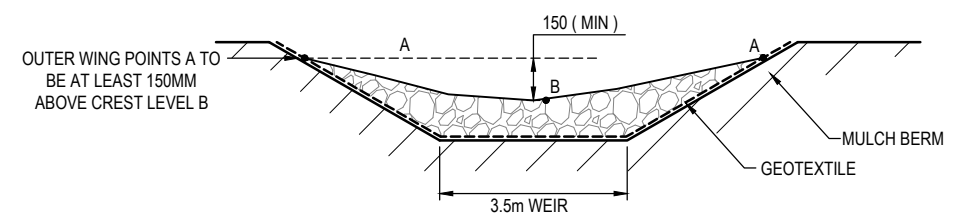


TYPICAL MULCH FILTER BERM PLAN DETAIL  
N.T.S.



REFER DWG. NO. DC1603-MHN-1A-ES12 AND IECA BPESC STD. DWG. SD-MB-01 FOR FURTHER INFORMATION.

TYPICAL MULCH FILTER BERM DETAIL  
N.T.S.



OUTER WING POINTS A TO BE AT LEAST 150MM ABOVE CREST LEVEL B

WEIR AT BERM SECTION  
N.T.S.

Recommended Maximum Bund Spacing

LAND SLOPE	Spacing
2%	30m
5%	25m
10%	15m
20%	8m

\* MULCH BUNDS TO BE INSTALLED WITH MINIMUM 20m RETURNS TO AVOID SCOUR BEHIND THE BUNDS. SITE SUPERINTENDENT AND DEPWS REPRESENTATIVE TO INSPECT PRIOR TO ACCEPTANCE.

XREFS: XR-TITLE  
CAD File: C:\PROJECTS\NBC\2016\Projects\DC1603-MHN Design\Drawings\MHN Design\DC1603-MHN-CH-0020.dwg

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	C dB	DMB	
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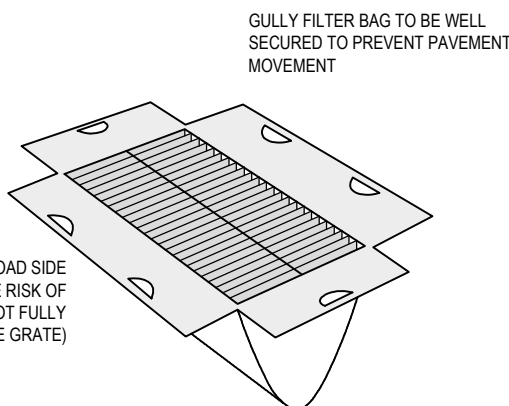
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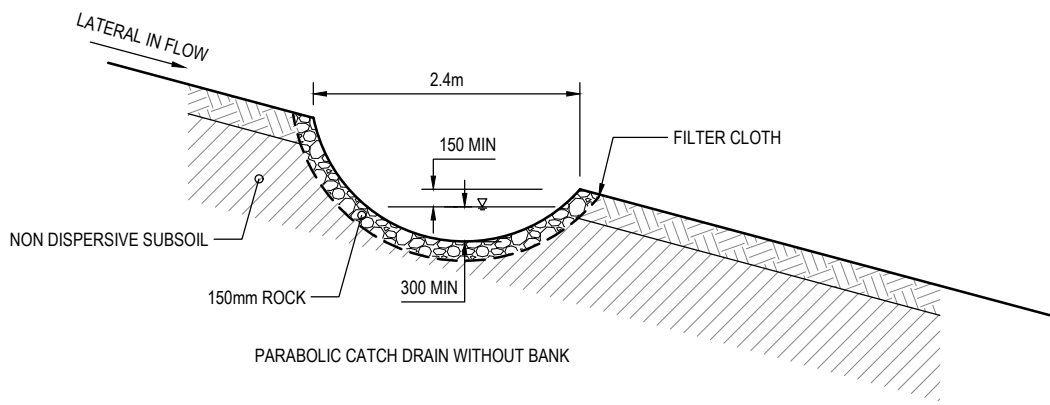
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OAR	June 20	DEFENCE HOUSING AUSTRALIA
Checked	Date	Project
DMB	June 20	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed	Date	
OAR	June 20	LEE POINT ROAD, MUIRHEAD CITY OF DARWIN
Verified	Date	
AGO	June 20	
Approved	Date	Title
<i>Carlo de Sijl</i>	23.04.2021	EROSION AND SEDIMENT CONTROL DETAILS SHEET 2 OF 3

Status			
<b>FOR CONSTRUCTION</b>			
Datum	Date	Scale	Size
AHD	July 2020	AS SHOWN	A1
Drawing Number			Revision
DC1603-MHN-1A-ES10			E

DATE PLOTTED: 23 April 2021 11:11 AM BY: OLIVER REISINGER

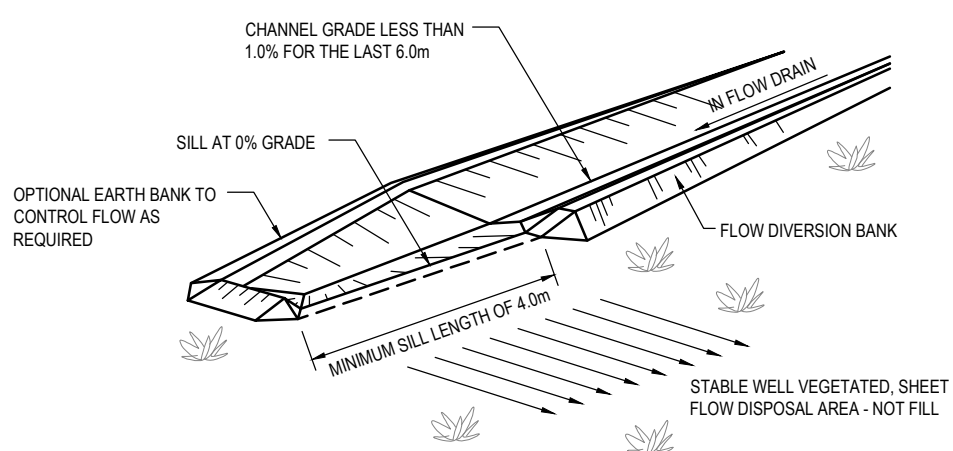


**GULLY FILTER BAG**  
N.T.S.



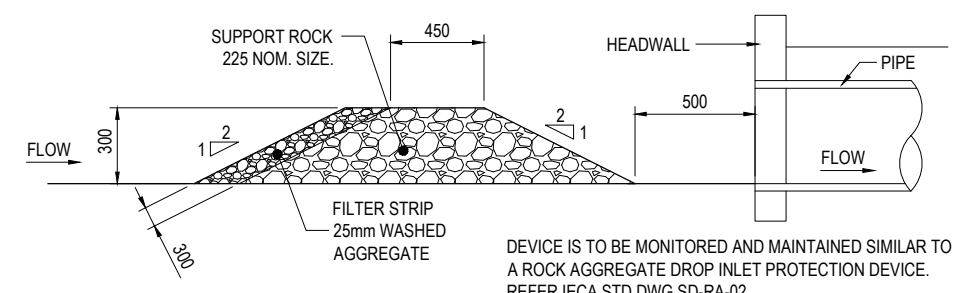
REFER DWG. NO. DC1603-MHN-1A-ES12 AND IECA BPESC STD. DWG. SD-CD-01 AND SD-CD-05 FOR FURTHER INFORMATION.

**CATCH DRAINS**  
N.T.S.

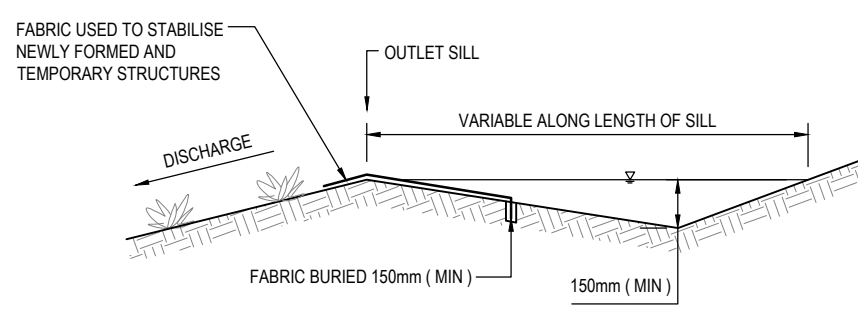


REFER DWG. NO. DC1603-MHN-1A-ES13 AND IECA BPESC STD. DWG. SD-LS-01 FOR FURTHER INFORMATION.

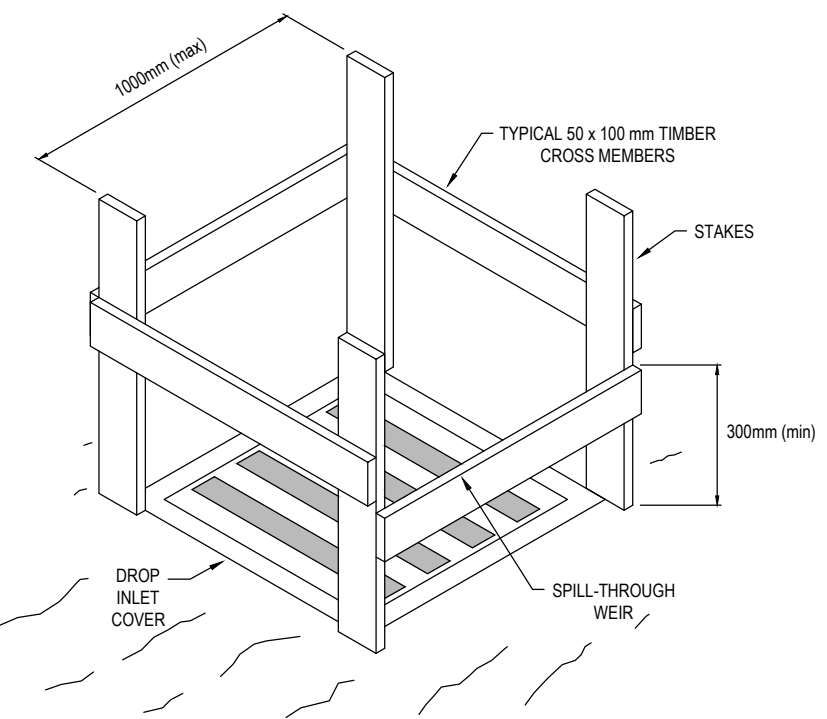
**TYPICAL LAYOUT OF THE LEVEL SPREADER**  
N.T.S.



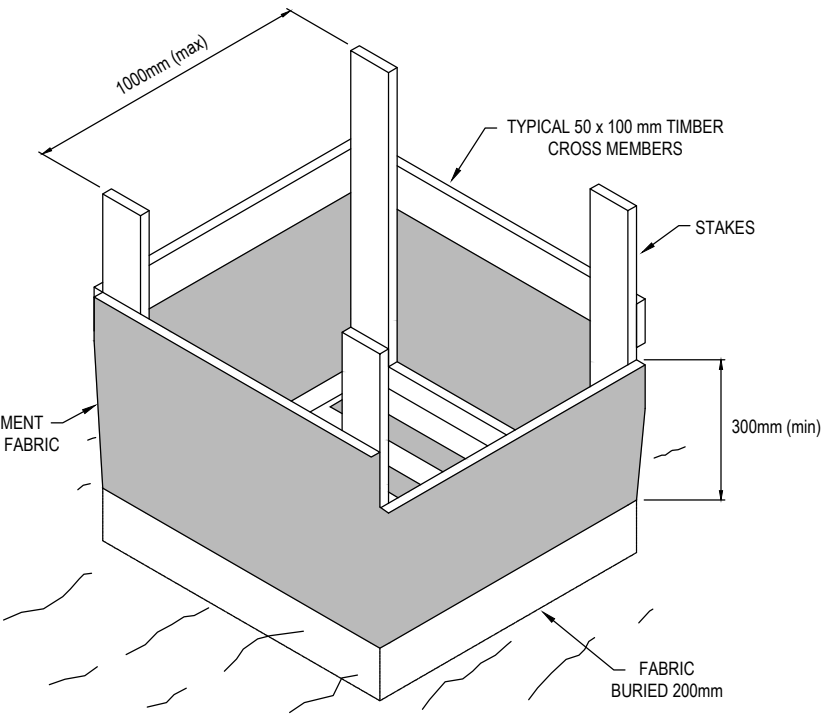
**INLET PROTECTION ROCK & AGGREGATE SYSTEM**  
N.T.S.



**TYPICAL PROFILE OF THE OUTLET WEIR**  
N.T.S.

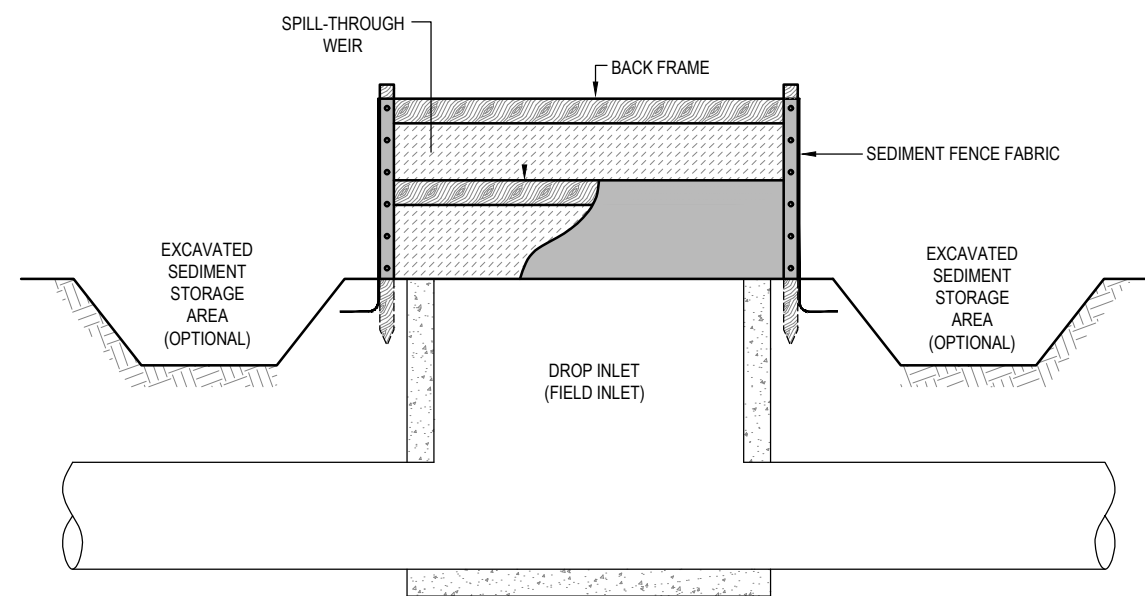


**DETAILS OF SUPPORT FRAME WITH SPILL-THROUGH WEIR**  
N.T.S.



**DETAILS OF SUPPORT FRAME WITH SPILL-THROUGH WEIR**  
N.T.S.

REFER DWG. NO. DC1603-MHN-1A-ES12 AND IECA BPESC STD. DWG. SD-FD-01 AND SD-FD-02 FOR FURTHER INFORMATION.



**FABRIC DROP INLET PROTECTION WITH OPTIONAL EXCAVATED SEDIMENT STORAGE AREA AND SETTLING POND**  
N.T.S.

XREFS: XR-TITLE  
CAD File: C:\PROJECTS\NBC\_2016\Projects\DC1603\2CRU Design\Technical Design\MHN Design\DC1603-MHN-CH-0020.dwg

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL	C dB	DMB	
D	15.03.21	FOR APPROVAL	C dB	DMB	
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Drawn	Date	Client
OAR	June 20	DEFENCE HOUSING AUSTRALIA
Checked	Date	Project
DMB	June 20	MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed	Date	Location
OAR	June 20	LEE POINT ROAD, MUIRHEAD CITY OF DARWIN
Verified	Date	Title
AGO	June 20	EROSION AND SEDIMENT CONTROL DETAILS
Approved	Date	Sheet
<i>Carlo de Sijl</i>	23.04.2021	SHEET 3 OF 3

Status			
<b>FOR CONSTRUCTION</b>			
Datum	Date	Scale	Size
AHD	July 2020	AS SHOWN	A1
Drawing Number			Revision
DC1603-MHN-1A-ES11			E



## CHECK DAM SEDIMENT TRAP

### MATERIALS

- \* ROCK: 150 TO 300MM EQUIVALENT DIAMETER, HARD, EROSION RESISTANT ROCK.
- \* SANDBAGS: GEOTEXTILE BAGS (WOVEN SYNTHETIC, OR NON-WOVEN BIODEGRADABLE) FILLED WITH CLEAN COARSE SAND, CLEAN AGGREGATE, OR COMPOST.

### INSTALLATION (ROCK CHECK DAM)

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- PRIOR TO PLACEMENT OF THE SEDIMENT TRAP, ENSURE THE DRAINAGE CHANNEL IS DEEP ENOUGH TO PREVENT WATER BEING UNSAFELY DIVERTED OUT OF THE DRAIN ONCE THE CHECK DAMS ARE INSTALLED.
- LOCATE EACH CHECK DAM SEDIMENT TRAP AS DIRECTED WITHIN THE APPROVED PLANS, OR OTHERWISE AT SUCH A SPACING TO ACHIEVE THE REQUIRED SEDIMENT TRAPPING OUTCOMES.
- IF THE CHECK DAMS ARE ALSO BEING USED TO CONTROL EROSION WITHIN THE DRAINAGE CHANNEL, THEN LOCATE EACH SUCCESSIVE CHECK DAM SUCH THAT THE CREST OF THE IMMEDIATE DOWNSTREAM DAM IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM CHECK DAM.
- CONSTRUCT EACH CHECK DAM TO THE DIMENSIONS AND PROFILE SHOWN WITHIN THE APPROVED PLAN.
- WHERE SPECIFIED, THE CHECK DAMS MUST BE CONSTRUCTED ON A SHEET OF GEOTEXTILE FABRIC USED AS A DOWNSTREAM SPLASH PAD.
- EACH CHECK DAM MUST BE EXTENDED UP THE CHANNEL BANK (WHERE PRACTICABLE) TO AN ELEVATION AT LEAST 150MM ABOVE THE CREST LEVEL OF THE DAM.

### MAINTENANCE

- INSPECT EACH CHECK DAM AND THE DRAINAGE CHANNEL AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING RAINFALL.
- CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN ANY OF THE CHECK DAMS, THEN CHECK THE SPACING OF THE DAMS AND WHERE NECESSARY INSTALL INTERMEDIATE CHECK DAMS OR A SUITABLE CHANNEL LINER.
- CHECK FOR DISPLACEMENT OF THE CHECK DAMS.
- CHECK FOR SOIL SCOUR AROUND THE ENDS OF EACH CHECK DAM. IF SUCH EROSION IS OCCURRING, CONSIDER EXTENDING THE WIDTH OF THE CHECK DAM TO AVOID SUCH PROBLEMS.
- IF SEVERE SOIL EROSION OCCURS EITHER UNDER OR AROUND THE CHECK DAMS, THEN SEEK EXPERT ADVICE ON AN ALTERNATIVE TREATMENT MEASURE.
- DE-SILT SEDIMENT TRAP IF THE SEDIMENT LEVEL EXCEEDS 1/3 THE CREST HEIGHT.
- DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

### REMOVAL

- WHEN CONSTRUCTION WORK WITHIN THE DRAINAGE AREA ABOVE THE CHECK DAMS HAS BEEN COMPLETED AND DISTURBED AREAS SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE DAMS MUST BE REMOVED, UNLESS THE SEDIMENT TRAPS ARE TO REMAIN AS A PERMANENT FEATURE.
- REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- REMOVE AND APPROPRIATELY DISPOSE OF ALL MATERIALS INCLUDING ANY GEOTEXTILE FABRIC.
- STABILISE THE DISTURBED CHANNEL WITH A LINING OF FABRIC AND ROCK, OR ESTABLISH VEGETATION AS APPROPRIATE.

## KERB INLET TRAP - SAG INLETS

### INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES.
- INSTALL SEDIMENT TRAP IN ACCORDANCE WITH STANDARD DRAWING SUPPLIED WITH THE APPROVED PLAN, OR AS DIRECTED BY THE SITE SUPERVISOR.
- ENSURE THE SEDIMENT TRAP IS CONSTRUCTED UP-SLOPE OF AN ON-GRADE KERB INLET. THE SEDIMENT TRAP MUST NOT SURROUND THE KERB INLET UNLESS SPECIFICALLY DIRECTED BY THE SITE SUPERVISOR.
- IF NECESSARY, INSTALL ADDITIONAL SEDIMENT TRAPS UP-SLOPE OF THE KERB INLET TO ADEQUATELY RETAIN THE EXPECTED QUANTITY OF SEDIMENT RUNOFF.
- TAKE ALL NECESSARY MEASURE TO MINIMISE THE SAFETY RISK CAUSED BY THE STRUCTURE.

### MAINTENANCE

- INSPECT ALL SEDIMENT TRAPS DAILY AND IMMEDIATELY AFTER RUNOFF-PRODUCING RAINFALL. MAKE REPAIRS AS NEEDED.
- REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- ENSURE SEDIMENT DOES NOT ENTER THE STORMWATER DRAIN DURING DE-SILTING OPERATIONS AND MAINTENANCE OF THE TRAP.
- SEDIMENT ON THE ROAD MUST BE REMOVED IMMEDIATELY IF IT REPRESENTS A SAFETY HAZARD.

### REMOVAL

- WHEN THE UP-SLOPE DRAINAGE AREA HAS BEEN STABILISED, REMOVE ALL MATERIALS INCLUDED DEPOSITED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

## KERB INLET TRAP - ON-GRADE

### INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES.
- INSTALL SEDIMENT TRAP IN ACCORDANCE WITH STANDARD DRAWING SUPPLIED WITH THE APPROVED PLAN, OR AS DIRECTED BY THE SITE SUPERVISOR.
- ENSURE THE SEDIMENT TRAP IS CONSTRUCTED UP-SLOPE OF AN ON-GRADE KERB INLET. THE SEDIMENT TRAP MUST NOT SURROUND THE KERB INLET UNLESS SPECIFICALLY DIRECTED BY THE SITE SUPERVISOR.
- IF NECESSARY, INSTALL ADDITIONAL SEDIMENT TRAPS UP-SLOPE OF THE KERB INLET TO ADEQUATELY RETAIN THE EXPECTED QUANTITY OF SEDIMENT RUNOFF.
- TAKE ALL NECESSARY MEASURE TO MINIMISE THE SAFETY RISK CAUSED BY THE STRUCTURE.

### MAINTENANCE

- INSPECT ALL SEDIMENT TRAPS DAILY AND IMMEDIATELY AFTER RUNOFF-PRODUCING RAINFALL. MAKE REPAIRS AS NEEDED.
- REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- ENSURE SEDIMENT DOES NOT ENTER THE STORMWATER DRAIN DURING DE-SILTING OPERATIONS AND MAINTENANCE OF THE TRAP.
- SEDIMENT ON THE ROAD MUST BE REMOVED IMMEDIATELY IF IT REPRESENTS A SAFETY HAZARD.

### REMOVAL

- WHEN THE UP-SLOPE DRAINAGE AREA HAS BEEN STABILISED, REMOVE ALL MATERIALS INCLUDED DEPOSITED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

## ROCK FILTER DAM

FOR INSTALLATION, MAINTENANCE AND REMOVAL NOTES REFER TO STANDARD DRAWING SD-RFD-02.

## LEVEL SPREADERS

### INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- WHEREVER PRACTICAL, LOCATE THE LEVEL SPREADER ON UNDISTURBED, STABLE SOIL.
- ENSURE FLOW DISCHARGING FROM THE LEVEL SPREADER WILL DISPERSE ACROSS A PROPERLY STABILISED SLOPE NOT EXCEEDING 10:1 (H:V) AND SUFFICIENTLY EVEN IN GRADE ACROSS THE SLOPE TO AVOID CONCENTRATING THE OUTFLOW.
- THE OUTLET SILL OF THE SPREADER SHOULD BE PROTECTED WITH EROSION CONTROL MATTING TO PREVENT EROSION DURING THE ESTABLISHMENT OF VEGETATION. THE MATTING SHOULD BE A MINIMUM OF 1200MM WIDE EXTENDING AT LEAST 300MM UPSTREAM OF THE EDGE OF THE OUTLET CREST AND BURIED AT LEAST 150MM IN A VERTICAL TRENCH. THE DOWNSTREAM EDGE SHOULD BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY-DUTY WIRE STAPLES AT LEAST 150MM LONG.
- ENSURE THAT THE OUTLET SILL (CREST) IS LEVEL FOR THE SPECIFIED LENGTH.
- IMMEDIATELY AFTER CONSTRUCTION, TURF, OR SEED AND MULCH WHERE APPROPRIATE, THE LEVEL SPREADER.

### MAINTENANCE

- INSPECT THE LEVEL SPREADER AFTER EVERY RAINFALL EVENT UNTIL VEGETATION IS ESTABLISHED.
- AFTER ESTABLISHMENT OF VEGETATION OVER THE LEVEL SPREADER, INSPECTIONS SHOULD BE MADE ON A REGULAR BASIS AND AFTER RUNOFF-PRODUCING RAINFALL.
- ENSURE THAT THERE IS NO SOIL EROSION AND THAT SEDIMENT DEPOSITION IS NOT CAUSING THE CONCENTRATION OF FLOW.
- ENSURE THAT THERE IS NO SOIL EROSION OR CHANNEL DAMAGE UPSTREAM OF THE LEVEL SPREADER, OR SOIL EROSION OR VEGETATION DAMAGE DOWNSTREAM OF THE LEVEL SPREADER.
- INVESTIGATE THE SOURCE OF ANY EXCESSIVE SEDIMENTATION.
- MAINTAIN GRASS IN A HEALTH CONDITION WITH NO LESS THAN 90% COVER UNLESS CURRENT WEATHER CONDITIONS REQUIRE OTHERWISE.
- GRASS HEIGHT SHOULD BE MAINTAINED AT A MINIMUM 50MM BLADE LENGTH WITHIN THE LEVEL SPREADER AND DOWNSTREAM DISCHARGE AREA, AND A MAXIMUM BLADE LENGTH NO GREATER THAN ADJACENT GRASSES.

### REMOVAL

- TEMPORARY LEVEL SPREADERS SHOULD BE DECOMMISSIONED ONLY AFTER AN ALTERNATIVE STABLE OUTLET IS OPERATIONAL, OR WHEN THE INFLOW CHANNEL IS DECOMMISSIONED.
- REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- REMOVE AND APPROPRIATELY DISPOSE OF ANY EXPOSED GEOTEXTILE.
- GRADE THE AREA AND SMOOTH IT OUT IN PREPARATION FOR STABILISATION.
- STABILISE THE AREA AS SPECIFIED ON THE APPROVED PLAN.

## WIND BUFFER CLEARING

### METHODOLOGY

- REFER TO APPROVED PLANS FOR EXTENT OF CLEARING.
- ALL SMALL TREES, SHRUBS AND LONG GRASS TO BE REMOVED.
- TALL TREES ARE TO BE REMOVED, WITH THE EXCEPTION OF UP TO 10% TREE COVERAGE AS SHOWN IN NOMINAL LOCATIONS ON DWG No. DC1603-MHN-1A-ES06 & ES08 OR AS DIRECTED BY SUPERINTENDENT AFTER CONSULTATION WITH DEPW5.
- EXISTING GROUND TO BE GRADED TO AVOID PONDING OF STORMWATER AND TOP SOILED WITH NATURAL MATERIAL CONTAINING NATURAL GRASSES.
- UNDISTURBED GRASSED AREAS ARE TO BE SLASHED.

### MAINTENANCE

- INSPECT AND REPLENISH MULCH POST WET SEASON UNTIL AREA IS DEVELOPED OR NATURAL GRASS/GROUND COVER IS ESTABLISHED.
- NATURAL GRASS AND GROUND COVER RE-GROWTH IS ENCOURAGED TO AID IN EROSION CONTROL. SLASH / MAINTAIN TO LOW HEIGHT.

### FUTURE USE

- WIND BUFFER AREA WILL BE REPLACED WITH RURAL RESIDENTIAL LOTS AND A STABILISED DETENTION BASIN DURING FUTURE STAGE WORKS.

NOTE:  
INFORMATION ON DEVICES SHOWN ON THIS DRAWING SOURCED  
FROM IECA(2008) BOOK 6 - STANDARD DRAWINGS.

Rev.	Date	Description	Des.	Verif.	Appd.
E	23.04.21	FOR APPROVAL		C dB	DMB
D	15.03.21	FOR APPROVAL		C dB	DMB
C	02.12.20	FOR APPROVAL		OAR	DMB
B	13.11.20	FOR APPROVAL		OAR	DMB
A	23.09.19	FOR REVIEW		OAR	DMB



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Drawn OAR	Date June 20	Client <b>DEFENCE HOUSING AUSTRALIA</b>
Checked DMB	Date June 20	Project MUIRHEAD NORTH DEVELOPMENT - STAGE 1A
Designed OAR	Date June 20	Status <b>FOR CONSTRUCTION</b>
Verified AGO	Date June 20	
Approved	Date	Datum AHD
		Date July 2020
		Scale AS SHOWN
		Size A1
		Drawing Number <b>DC1603-MHN-1A-ES13</b>
		Revision <b>E</b>