

PRECAST CONCRETE HEADWALL & FLAP VALVE, FINISHED LEVELS AROUND THE PROPOSED HEADWALL TO BE NEATLY GRADED AND TRIMMED TO TIE-IN EXISTING LEVELS. REFER TO COMPOUND MANHOLE SCHEDULE.

PROPOSED 100mm DIAMETER OUTLET PIPE TO ALLOW DISCHARGE BY GRAVITY FOR STORM EVENTS INCLUDING AND ABOVE 1 IN 30 YEAR (+10%CC). FLOW RATES ARE RESTRICTED TO GREENFIELD RUNOFF RATES OF 5.7L/S FOR 1 IN 30 YEAR (+10%CC) AND 10.6L/S FOR 1 IN 100 YEAR (+10%CC) EVENTS.

300mm FREEBOARD PROVIDED ABOVE THE 1 IN 100 YEAR (+10%CC) PEAK WATER LEVEL. EXCEEDANCE FLOWS WILL DISCHARGE INTO THE HIGHWAY DRAINAGE DITCH AND ULTIMATELY DRAIN INTO LANGFORD BROOK.

ATTENUATION BASIN REFER TO STANDARD DETAIL 133735_RW-EWR-XX-ALL-DR-DH-050003 FOR FLOW SHUT OFF DETAILS

PROPOSED ATTENUATION BASIN TO BE CONSTRUCTED WITH A DEPTH OF 1.5m BELOW GROUND LEVEL, WITH A BASE AREA OF 62.36m² TO PROVIDE A TOTAL STORAGE VOLUME OF 247m³ FOR ALL EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR (+10%CC). HAYBALES TO BE PROVIDED REFER TO DRAWING 133735_RW-EWR-XX-ALL-DR-DH-050003 AND SCHEDULE FOR SETTING OUT.

PROPOSED LOCATION OF PUMPING CHAMBER. SELECT TO PROVIDE A PACKAGED PUMPING STATION COMPRISING OF PUMPS IN A DUTY STANDBY ARRANGEMENT WHICH ARE ACTIVATED BY FLOAT SWITCHES. PUMPS SHALL BE CONNECTED TO A CONTROL PANEL ADJACENT TO THE PUMPING CHAMBER AND SHALL BE FITTED WITH A BEACON WARNING SYSTEM SHOULD FAILURE OF THE PUMPS OCCUR. THE CONTROL PANEL SHALL HAVE A PERMANENT POWER SUPPLY FROM THE COMPOUND SUBSTATION AND PROVISION FOR AUXILIARY GENERATOR INPUT IS REQUIRED IN THE EVENT FAILURE OF THE MAIN SITE POWER SUPPLY.

PUMPS SHALL BE LIMITED TO A MAXIMUM FLOW RATE OF 4.2L/S EQUIVALENT TO THE 1 IN 1 YEAR GREENFIELD RUNOFF RATE.

INDICATIVE POSITION OF CONTROL PANEL

INDICATIVE ALIGNMENT OF TWIN PUMPING MAINS (DESIGN BY SELECT. SEE NOTE 8)

POND IL 68.431m
POND COVER LEVEL 69.931m

PROPOSED PUMPED MAIN STILLING CHAMBER (TO BE INSTALLED BY SELECT)

PROPOSED FOUL WATER TANK TO BE SPECIFIED AND SUPPLIED BY SELECT. TANK TO BE PERIODICALLY EMPTIED BY TANKER IN ACCORDANCE WITH COMPOUND MANAGEMENT PLAN.

500 KVA SUB STATION

FINAL LOCATION OF SUBSTATION AND ASSOCIATED CABLING TO BE COORDINATED WITH PROPOSED DRAINAGE DESIGN

BURIED SERVICES (EWR2-HAZ-3556)

EXISTING HIGHWAY DRAINAGE DITCH

EXISTING TREE TO BE RETAINED. TREE PROTECTION FENCE TO BE INSTALLED AS PER BRITISH STANDARD REQUIREMENT

PROPOSED CAR PARK

PROPOSED SITE OFFICES & WELFARE FACILITIES

FUEL STORAGE

SITE STORES

FUEL STORAGE

SITE LAB

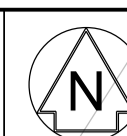
WHEEL WASH

EXISTING HIGHWAY DRAINAGE CULVERT NOT TO BE MODIFIED BY THE PROJECT

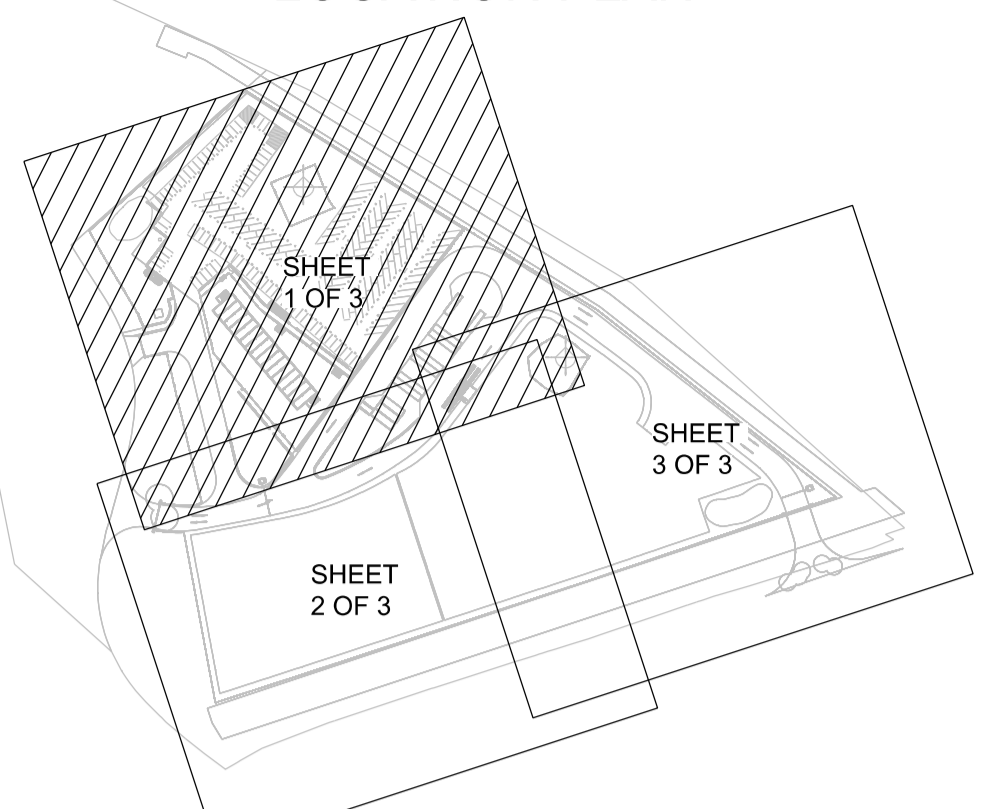
FOR DETAILS OF PIPE FITTINGS REFER TO DRAWING 133735_RW-EWR-XX-ALL-DR-DH-050002 AND SCHEDULE

REFER TO DITCH AND PIPE CONNECTION DETAIL ON DRAWING 133735_RW-EWR-XX-ALL-DR-DH-050002

MATCHLINE - FOR CONTINUATION SEE DRAWING 133735_RW-EWR-XX-A1-DR-DH-001102



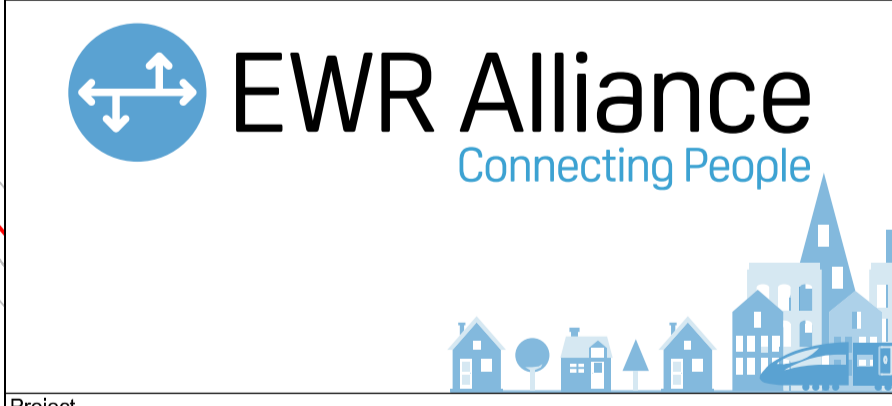
LOCATION PLAN



SCALE : NTS

- NOTES
- THIS DRAWING IS NOT TO BE SCALED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN mAOD. ALL COORDINATES ARE BASED ON EWR2 SNAKEGRID.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH MANHOLE SCHEDULE 133735_RW-EWR-XX-A1-SH-DH-001100 AND STANDARD DETAIL DRAWINGS 133735_RW-EWR-XX-ALL-DR-DH-050001 TO 133735_RW-EWR-XX-ALL-DR-DH-050005.
 - DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATION 133735_RW-EWR-XX-SP-DR-000001.
 - EXISTING LEVELS ARE BASED ON TOPOGRAPHICAL SURVEY DATA UNLESS STATED OTHERWISE (ADD MODEL REFERENCE NO FOR TOPO SURVEY) 133735_RW-EWR-XX-M3-G-000049.
 - FOR HAZARDS REFER TO EWR2 PHASE 2 HAZARD LOG 133735-EWR-LOG-SSD-000004.
 - BURIED SERVICES DATA IS PROVIDED FOR INFORMATION ONLY AND IS BASED UPON AVAILABLE RECORDS WHICH MAY BE INCOMPLETE. FOR BURIED SERVICES RECORDS REFER TO DOCUMENT 133735_RW-EWR-EWL-XXXXXXX-M2-U-010001_B01-03_S1. THE CONTRACTOR MUST NOT RELY ON THE ACCURACY OF THIS INFORMATION AND SHALL IDENTIFY THE LINE, LEVEL AND TYPE OF ALL SERVICES AND UNDERTAKE AN APPROPRIATELY DETAILED RISK ASSESSMENT BEFORE UNDERTAKING ANY WORKS THAT MAY CAUSE DAMAGE TO PROPERTY OR RISK TO HEALTH AND SAFETY.
 - SILT FENCES WILL BE CONSTRUCTED TO INTERCEPT SEDIMENT SUSPENDED IN RUNOFF. REFER TO STANDARD DETAIL 133735_RW-EWR-XX-ALL-DR-DH-050001.
 - REFER TO SCHEDULE 133735_RW-EWR-XX-A1-SH-DH-001100 FOR PUMPING STATION TECHNICAL REQUIREMENTS.
- KEY:
- COMPOUND BOUNDARY
 - EXISTING WATERCOURSE
 - EXISTING LOW VOLTAGE ELECTRICITY CABLE (UNDERGROUND)
 - EXISTING MEDIUM PRESSURE GAS MAIN
 - EXISTING HIGH PRESSURE GAS MAIN
 - EXISTING HIGH VOLTAGE ELECTRICITY CABLE (UNDERGROUND)
 - PROPOSED CARRIER DRAIN
 - PROPOSED FILTER DRAIN
 - PROPOSED HEADWALL
 - PROPOSED DITCH (1 IN 1 SLOPE)
 - SETTING OUT POINT
 - CATCHPIT / MANHOLE
 - PROPOSED SILT FENCE (NOTE 7)
 - PROPOSED HAYBALES INSIDE THE ATTENUATION BASIN
 - PROPOSED PUMPING MAIN (NOTE 8)
 - HAZARD

Rev	Date	Description of Revisions	Desd	Chkd	Appr	Submittal
B01	10/06/20	For Information				
Status						S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
CIVIL ENGINEERING DRAINAGE TEMPORARY COMPOUND A1 DRAINAGE GENERAL ARRANGEMENT

Designed	Rama Sastry	Signed	R. Sastry	Date	10/06/20
Drawn	Rama Sastry	Signed	R. Sastry	Date	07/11/19
Checked	Mark Stevens	Signed	M. Stevens	Date	10/06/20
Approved	Adrian Rose	Signed	A. Rose	Date	10/06/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	XX - A1	Sheet	1 of 3
Design Package Risk Classification	Normal			Revision	B01
Alternative Reference					
Drawing Number	133735_RW-EWR-XX-A1-DR-DH-001101				

Safety, Health and Environmental Information
The works are to be undertaken by a competent contractor, and therefore only exceptional risks relating to the works associated with this drawing are identified below. For further details and proposed safety measures refer "EWR CDM PHASE 2 HAZARD LOG" eB doc. Ref: 133735-EWR-LOG-SSD-000004.

ID	Hazard description
EWR2-HAZ-3556	BURIED SERVICES

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