



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

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NOTES

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3. ALL DIMENSIONS IN MILLIMETRES. ALL CHANGES LEVELS AND COORDINATES ARE IN METRES UNLESS OTHERWISE STATED.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. DEFENCE LENGTHS SHOWN ARE APPROXIMATE.
6. FLOOD GATES COULD ALTERNATIVELY BE STOPLOGS TO BE DETERMINED AT DETAILED DESIGN.
7. DEFENCE ALIGNMENT DRAINAGE USING A COMBINATION OF AERIAL AND MASTERMAP DATA.
8. CROSS SECTIONS SHOWN ON DRAWINGS INTACT AND AS SHOWN IN CE 0201 TO 0206.
9. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.

NEW FLOOD AND EROSION DEFENCE STRUCTURE TYPE

- EARTH EMBANKMENT
- FLOOD WALLS (INCLUDING FLIP-UP BARRIER)
- FLOOD GATES
- BOARDWALK
- CAPITAL REFURBISHMENT
- ROCK ARMOUR

NOT FOR CONSTRUCTION

| | | | |
|------------------|----|----------|-------|
| DRAFT ISSUE | BO | 16/09/19 | P1 |
| Revision Details | By | Date | Scale |

Purpose of Issue: FOR INFORMATION

Client: EASTERN SOLENT COASTAL PARTNERSHIP

Project Title: OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION MANAGEMENT SCHEME

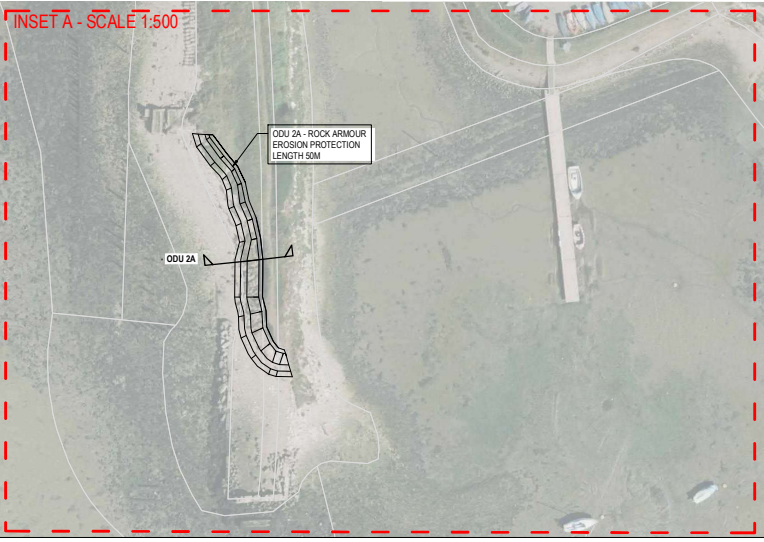
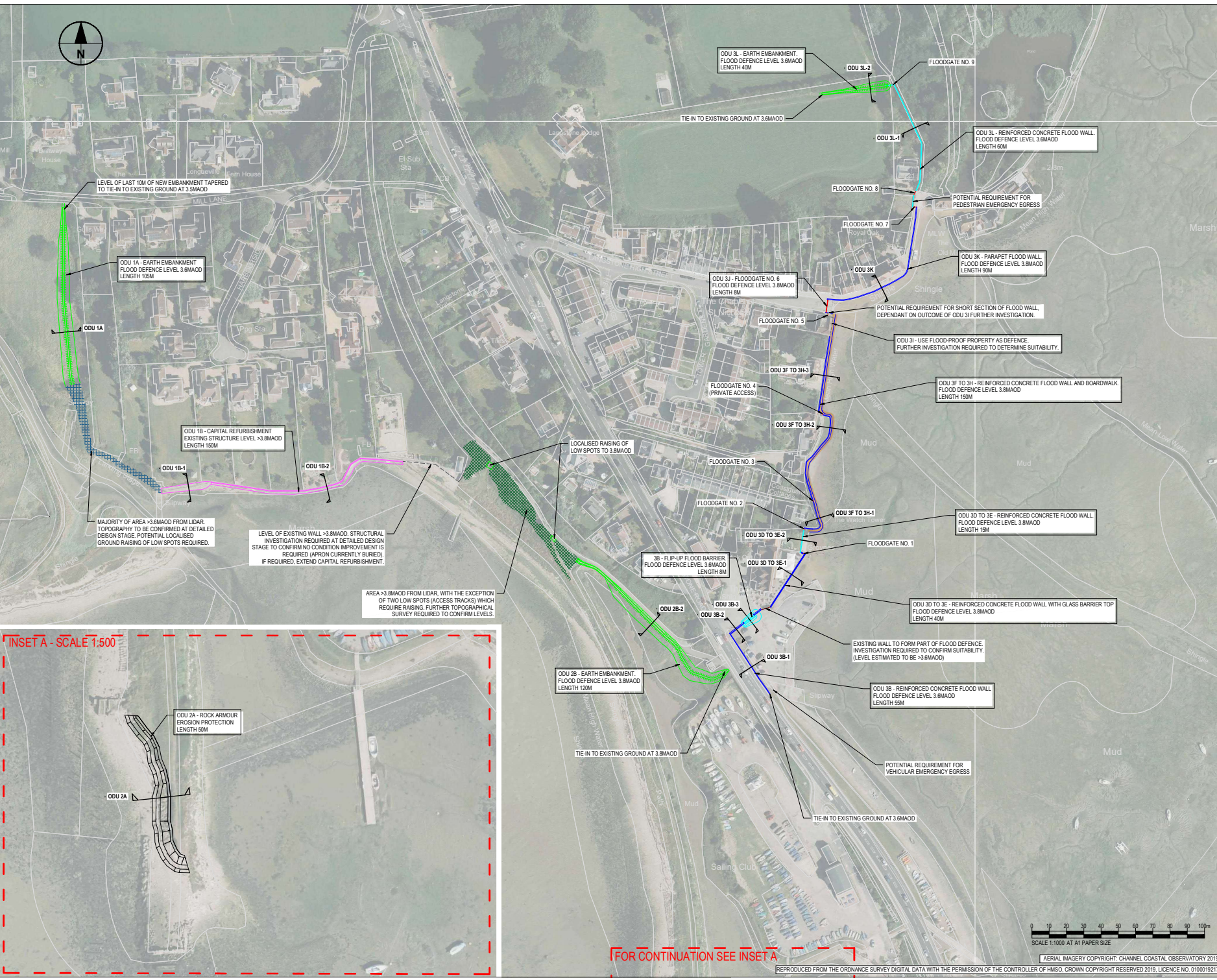
Drawing Title: GENERAL ARRANGEMENT PLAN: CORE AND ADDITIONAL FLOOD DEFENCE SCHEME

| | | | | |
|-------------------------------------|-----------|-------------|---------------|----------------|
| Designed: GB | Drawn: BO | Checked: EI | Approved: PNU | Date: 16/09/19 |
| AECOM Internal Project No: 60578525 | | | | Subsidiary: S2 |
| Scale: g at 1:1000 | | | | Zone: |

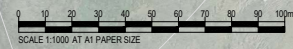
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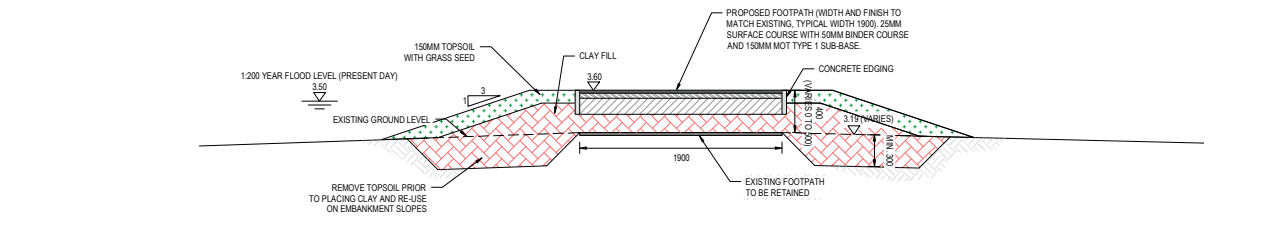
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Fax: +44 (0)1256 315200
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Drawing Number: LNST-ACM-XX-DR-CE-02004 P1

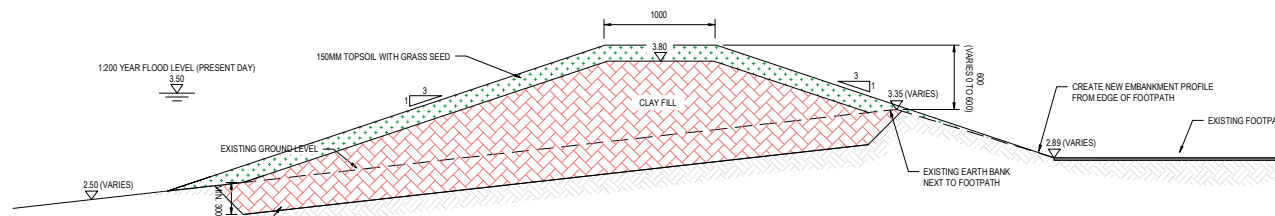


FOR CONTINUATION SEE INSET A

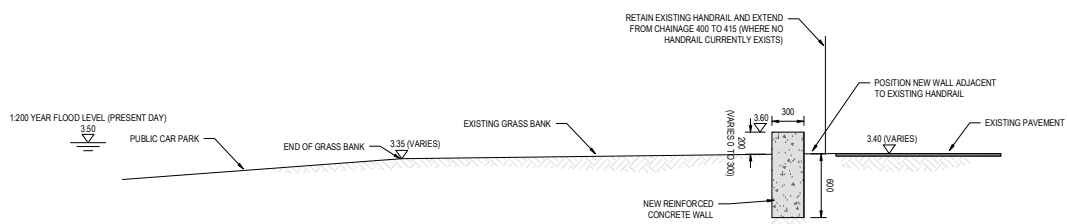




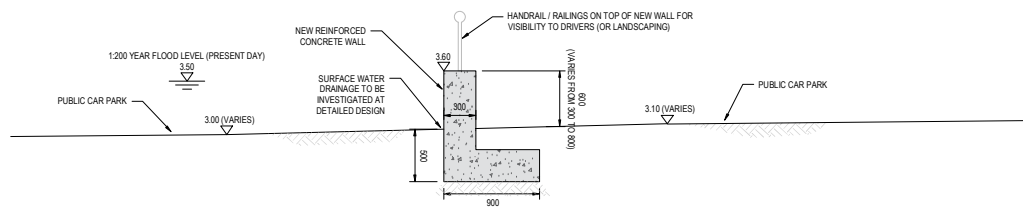
CROSS SECTION ODU 2B - 1: RAISE FOOTPATH LEVEL
CHAINAGE 0 - 170 METRES
SCALE 1:25



CROSS SECTION ODU 2B - 2: EARTH EMBANKMENT
CHAINAGE 255 - 373 METRES
SCALE 1:25



CROSS SECTION ODU 3B - 1: REINFORCED CONCRETE FLOOD WALL
CHAINAGE 373 - 415 METRES
SCALE 1:25



CROSS SECTION ODU 3B - 2: REINFORCED CONCRETE FLOOD WALL
CHAINAGE 415 - 425 AND 433 - 437 METRES
SCALE 1:25

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

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8. CLADDING FINISH OF NEW FLOOD DEFENCE STRUCTURES TO BE DETERMINED AT DETAILED DESIGN STAGE.
9. DEFENCE CREST LEVELS VARY BASED ON FREEBOARD ALLOWANCE, SETBACK DEFENCE CREST LEVEL 3.0M AOD, FRONTLINE DEFENCE CREST LEVEL 3.0M AOD. SEE DESIGN REPORT FOR EXPLANATION.
10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.

NOT FOR CONSTRUCTION

| Revision | By | Check | Date | Scale |
|----------------------------------|----|-------|----------|-------|
| UPDATE FOLLOWING CLIENT COMMENTS | BO | CE | 14/10/19 | P2 |
| DRAFT ISSUE | BO | EI | 16/09/19 | P1 |

Purpose of issue
FOR INFORMATION

Client
EASTERN SOLENT COASTAL PARTNERSHIP

Project Title
OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME

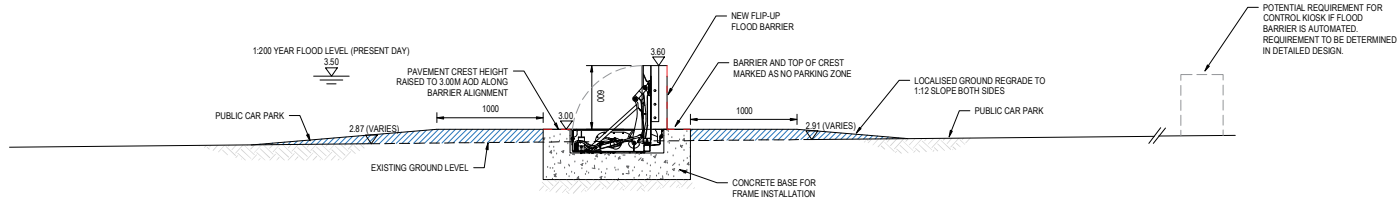
Drawing Title
CORE FLOOD DEFENCE SCHEME CROSS SECTIONS SHEET 1 OF 4

| Designed | Drawn | Checked | Approved | Date |
|--|-------|---------|----------|----------------------|
| CE | BO | EI | PNJ | 16/09/19 |
| AECOM Internal Project No. 60578525 | | | | Sustainability S2 |
| Scale @ A1 1:25 | | Zone | | |

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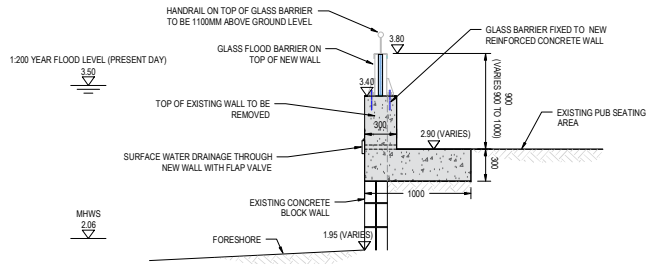
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Fax: +44 (0) 1256 315 200
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Drawing Number
LNST-ACM-XX-XX-DR-CE-03001
Sheet
P2



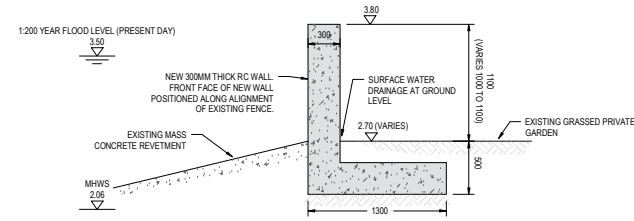
CROSS SECTION ODU 3B - 3: FLIP-UP FLOOD BARRIER
CHAINAGE 425 - 433 METRES

SCALE 1:25



CROSS SECTION ODU 3D TO 3E - 1: REINFORCED CONCRETE
FLOOD WALL WITH GLASS BARRIER TOP
CHAINAGE 443 - 482 METRES

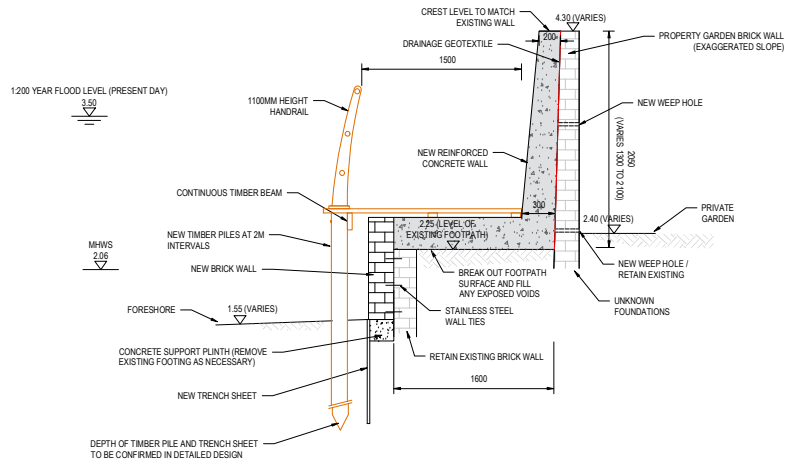
SCALE 1:25



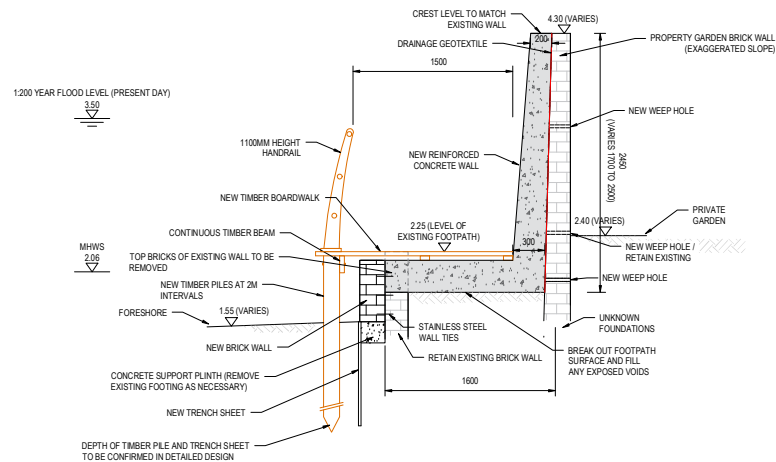
CROSS SECTION ODU 3D TO 3E - 2: REINFORCED CONCRETE
FLOOD WALL
CHAINAGE 482 - 497 METRES

SCALE 1:25

NOT FOR
CONSTRUCTION



OPTION 1: RAISED



OPTION 2: SAME LEVEL

CROSS SECTION ODU 3F TO 3H - 1: REINFORCED CONCRETE FLOOD WALL AND
BOARDWALK
CHAINAGE 497 - 545 METRES

SCALE 1:25

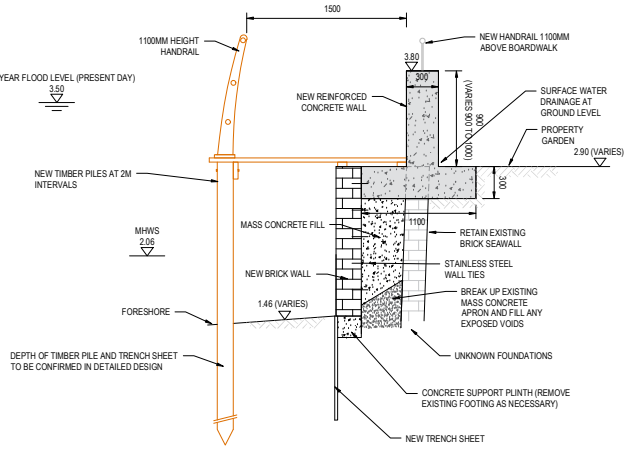
| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX | | | | | |
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| 6. DESIGN BASED ON LIMITED GROUND INVESTIGATION DATA. TARGETED GROUND INVESTIGATION TO BE UNDERTAKEN AT DETAILED DESIGN STAGE. | | | | | |
| 7. CROSS SECTIONS ARE TYPICAL OF THE CHANGE THEY REPRESENT. CROSS SECTIONS ARE PROVIDED FOR EACH OF CHANGE INVESTIGATED WITHIN THE CHANGES OF THE SECTIONS THE EXISTING GROUND LEVEL VARIES. THE DIMENSION OF THE NEW STRUCTURE HEIGHT IS PRESENTED AS A TYPICAL VALUE AND ALSO A RANGE TO REPRESENT THIS. | | | | | |
| 8. CLADDING FINISH OF NEW FLOOD DEFENCE STRUCTURES TO BE DETERMINED AT DETAILED DESIGN STAGE. | | | | | |
| 9. DEFENCE CREST LEVELS VARY BASED ON FREEBOARD ALLOWANCE, SETBACK DEFENCES CREST LEVEL, 3.0M AOD. FRONTLINE DEFENCES CREST LEVEL, 3.0M AOD. SEE DESIGN REPORT FOR EXPLANATION. | | | | | |
| 10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES ENSURE DRAINAGE IS MAINTAINED. | | | | | |
| UPDATE FOLLOWING CLIENT COMMENTS | | | | | |
| | BO | PNJ | 14/10/19 | P2 | |
| DRAFT ISSUE | | | | | |
| | BO | EI | 16/09/19 | P1 | |
| Revision Details | | | | | |
| | By | Check | Date | Scale | |
| Purpose of Issue | | | | | |
| FOR INFORMATION | | | | | |
| Client | | | | | |
| EASTERN SOLENT COASTAL PARTNERSHIP | | | | | |
| Project Title | | | | | |
| OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME | | | | | |
| Drawing Title | | | | | |
| CORE FLOOD DEFENCE SCHEME CROSS SECTIONS SHEET 2 OF 4 | | | | | |
| Designed GE | Drawn BO | Checked EI | Approved PNJ | Date 16/09/19 | |
| AECOM Internal Project No. 60578525 | | | | | |
| Scale @ A1 1:25 | | | | | |
| Sustainability S2 | | | | | |
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| Drawing Number LNST-ACM-XX-DR-CE-03002 | | | | | |
| Sheet P2 | | | | | |

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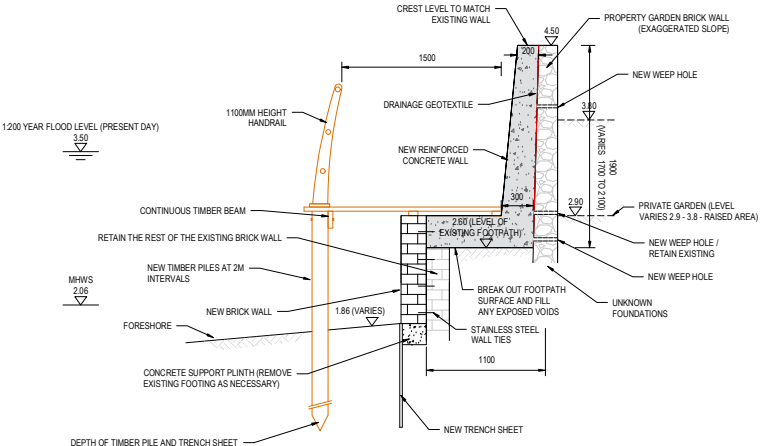
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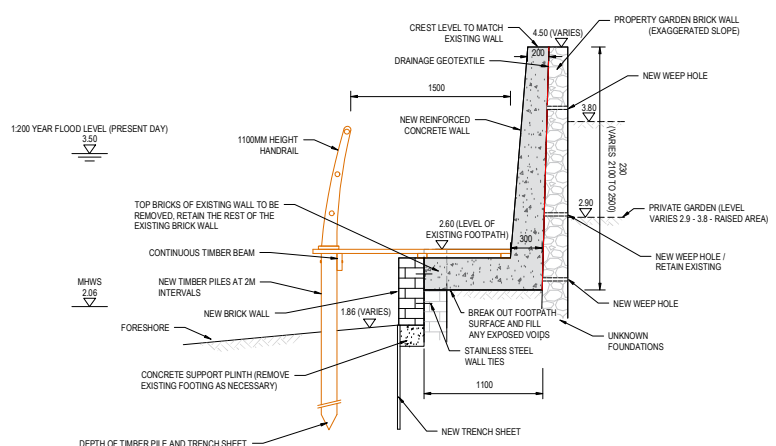


CROSS SECTION ODU 3F TO 3H - 2: REINFORCED CONCRETE FLOOD WALL AND BOARDWALK CHAINAGE 545 - 585 METRES SCALE 1:25

NOT FOR CONSTRUCTION



OPTION 1: RAISED



OPTION 2: SAME LEVEL

CROSS SECTION ODU 3F TO 3H - 3: REINFORCED CONCRETE FLOOD WALL AND BOARDWALK CHAINAGE 585 - 628 METRES SCALE 1:25

| UPDATE FOLLOWING CLIENT COMMENTS | | | BO | PNJ | 14/10/19 | P2 |
|----------------------------------|--|--|-----------------|-------|----------|--------|
| DRAFT ISSUE | | | BO | EI | 16/09/19 | P1 |
| Revision Details | | | By | Check | Date | Status |
| Purpose of Issue | | | FOR INFORMATION | | | |

Client
EASTERN SOLENT COASTAL PARTNERSHIP

Project Title
OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME

Drawing Title
CORE FLOOD DEFENCE SCHEME CROSS SECTIONS SHEET 3 OF 4

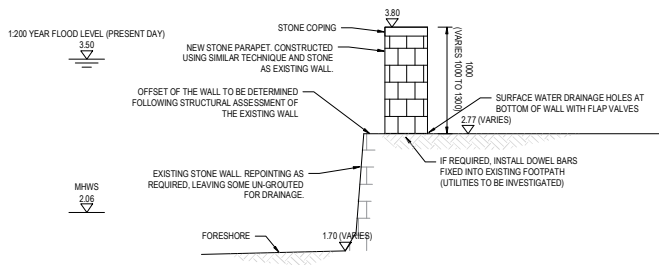
| Designed | Drawn | Checked | Approved | Date |
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| GE | BO | EI | PNJ | 16/09/19 |

AECOM Internal Project No. 60578525 Scale @ A1 Zone 1:25

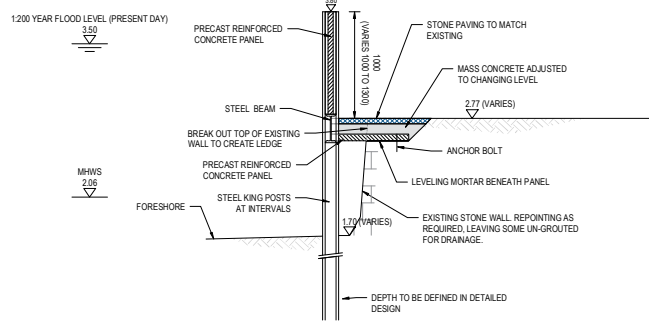
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| Drawing Number | Rev |
| LNST-ACM-XX-DR-CE-03003 | P2 |

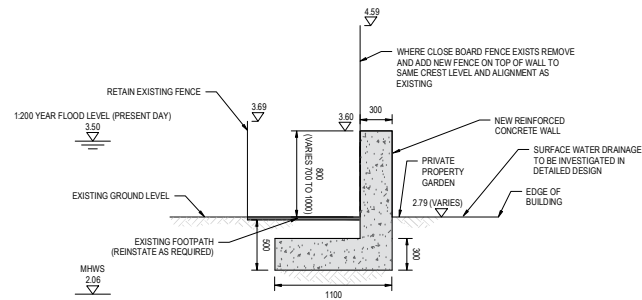


OPTION 1: PARAPET WALL

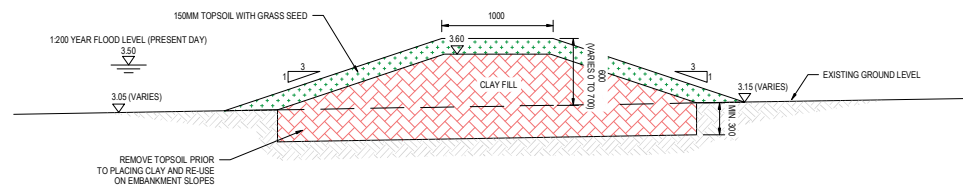


OPTION 2: KING POST WALL

CROSS SECTION ODU 3K
CHAINAGE 655 - 740 METRES
SCALE 1:25



CROSS SECTION ODU 3L-1: REINFORCED CONCRETE FLOOD WALL
CHAINAGE 740 - 825 METRES
SCALE 1:25



CROSS SECTION ODU 3L-2: EARTH EMBANKMENT
CHAINAGE 825 - 862 METRES
SCALE 1:25

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

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- IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES ENSURE DRAINAGE IS MAINTAINED.

UPDATE FOLLOWING CLIENT COMMENTS

| | | |
|----|----------|----|
| BO | 14/10/19 | P2 |
| CB | | |
| BO | 16/09/19 | P1 |
| EI | | |

DRAFT ISSUE

| | | | |
|------------------|-------|------|-------|
| Revision Details | By | Date | Scale |
| | check | | |

Purpose of Issue

FOR INFORMATION

Client

EASTERN SOLENT COASTAL PARTNERSHIP

Project Title

OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME

Drawing Title

CORE FLOOD DEFENCE SCHEME CROSS SECTIONS SHEET 4 OF 4

| | | | | |
|----------|-------|---------|----------|----------|
| Designed | Drawn | Checked | Approved | Date |
| CB | BO | EI | PNJ | 16/09/19 |

AECOM Internal Project No. 605/78525

Scale @ A1 Zone 1:25

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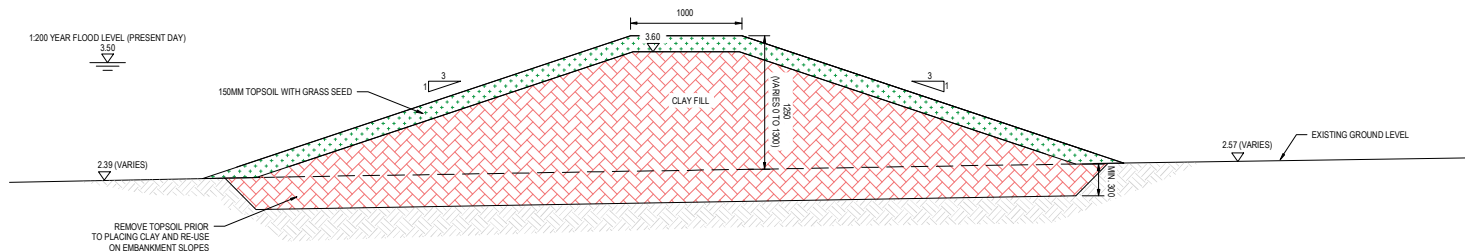
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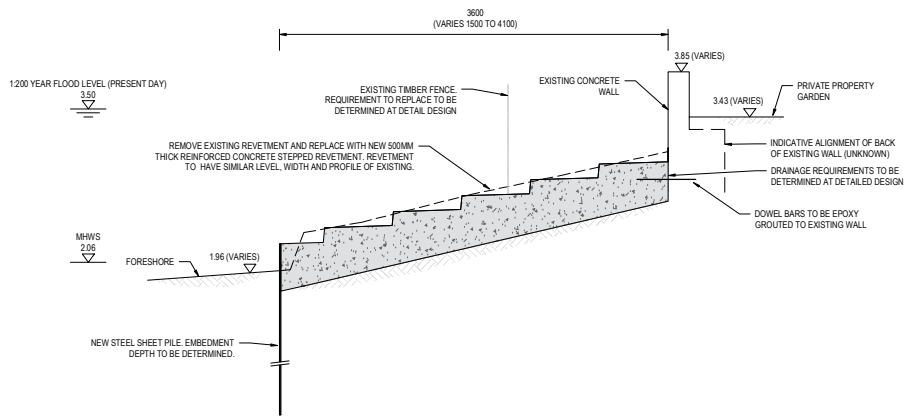
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Sheet: P2

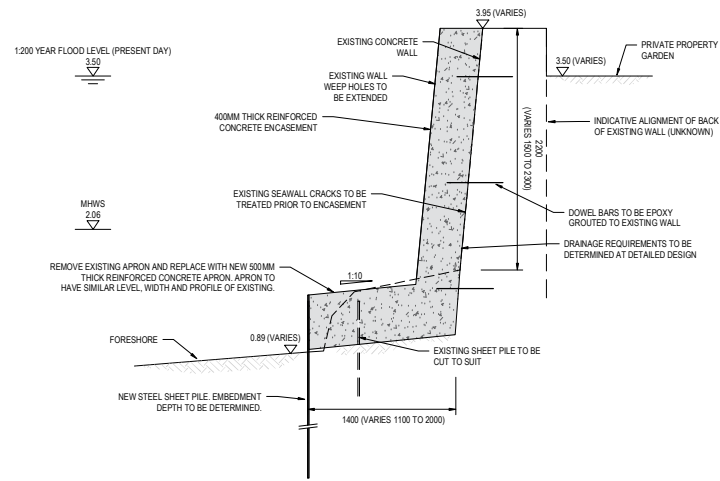
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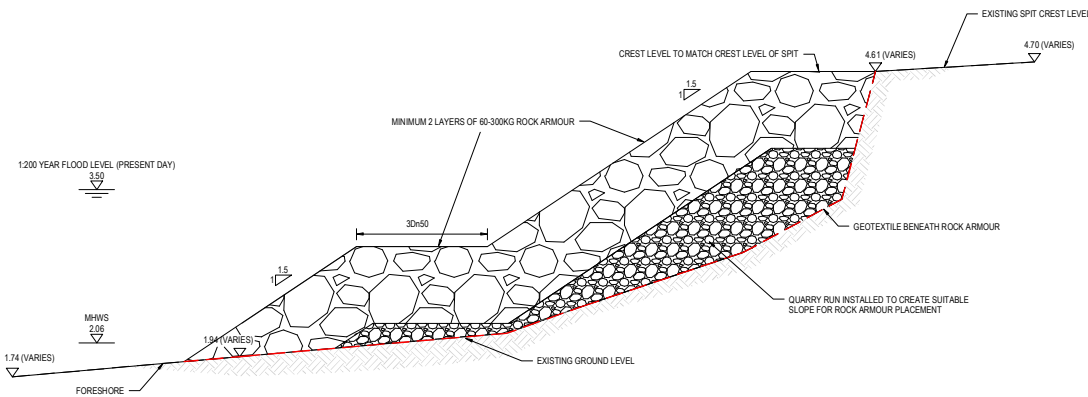
CROSS SECTION ODU 1A: EARTH EMBANKMENT
CHAINAGE 0A - 110A METRES
SCALE 1:25



CROSS SECTION ODU 1B - 1: CAPITAL REFURBISHMENT
CHAINAGE 190A - 220A METRES
SCALE 1:25



CROSS SECTION ODU 1B - 2: CAPITAL REFURBISHMENT
CHAINAGE 220A - 325A METRES
SCALE 1:25



CROSS SECTION ODU 2A: ROCK ARMOUR
LENGTH 50M
SCALE 1:25

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3. ALL DIMENSIONS IN MILLIMETRES. ALL CHAINAGE LEVELS AND COORDINATES ARE IN METRES UNLESS OTHERWISE DEFINED. OTHERWISE LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. DESIGN BASED ON LIMITED TOPOGRAPHICAL SURVEY DATA. TARGETED TOPOGRAPHIC SURVEY TO BE UNDERTAKEN AT DETAILED DESIGN STAGE.
6. DESIGN BASED ON LIMITED GROUND INVESTIGATION DATA. TARGETED GROUND INVESTIGATION TO BE UNDERTAKEN AT DETAILED DESIGN STAGE.
7. CROSS SECTIONS ARE TYPICAL OF THE CHAINAGE THEY REPRESENT. CROSS SECTIONS ARE PROVIDED FOR EACH CHAINAGE UNLESS OTHERWISE STATED WITHIN THE CHAINAGES OF THE SECTIONS. THE EXISTING GROUND LEVEL VARIES. THE DIMENSIONS OF THE NEW STRUCTURE HEIGHT IS PRESENTED AS A TYPICAL VALUE AND ALSO AS A RANGE TO REPRESENT THIS.
8. CLADDING, FINISH OR NEW FLOOD DEFENCE STRUCTURES TO BE DETERMINED AT DETAILED DESIGN STAGE.
9. DEFENCE CREST LEVELS VARY BASED ON FREEBOARD ALLOWANCE. SETBACK DEFENCES CREST LEVEL 3.0M AOD. FRONTLINE DEFENCES CREST LEVEL 3.0M AOD. SEE DESIGN REPORT FOR EXPLANATION.
10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.

NOT FOR CONSTRUCTION

| | | | |
|----------------------------------|----|----------|--------|
| UPDATE FOLLOWING CLIENT COMMENTS | BO | 15/10/19 | P2 |
| DRAFT ISSUE | BO | 16/09/19 | P1 |
| Revision Details | By | Date | Status |

Purpose of issue: **FOR INFORMATION**

Client: **EASTERN SOLENT COASTAL PARTNERSHIP**

Project Title: **OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME**

Drawing Title: **ADDITIONAL FLOOD DEFENCE SCHEME CROSS SECTIONS**

| | | | | |
|----------------------------|-------|----------------|----------|----------|
| Designed | Drawn | Checked | Approved | Date |
| GB | BO | EI | PNJ | 16/09/19 |
| AECOM Internal Project No. | | Sustainability | | |
| 60578525 | | S2 | | |
| Scale @ A1 | | Zone | | |
| 1:25 | | | | |

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Drawing Number: **LNST-ACM-XX-DR-CE-03005** Rev: **P2**



BRICK CLAD FLOOD WALL WITH PIERS, STONE COPINGS AND INFILL RAILING PANELS



BRICK CLAD FLOOD WALL WITH RECESSED PANELS AND STONE COPING



FLINT WALL (PHOTO FROM THE FLINT WALL COMPANY)



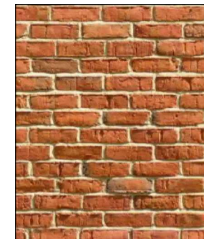
MULTI-TEXTURED CONCRETE



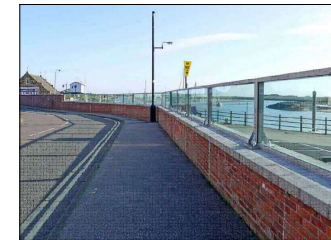
RECESSED BRICK CLADDING



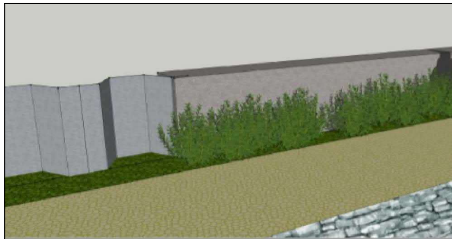
DETAILED COPING



RED BRICK TO MATCH EXISTING



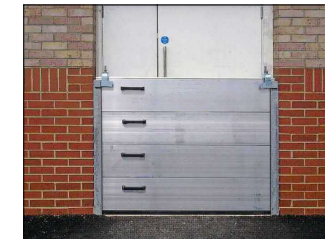
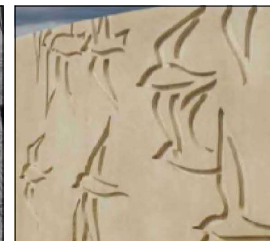
GLASS FLOOD BARRIER (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)



CONCRETE ENCASEMENT OF SHEET PILING



OPPORTUNITY FOR CREATIVE IMPRESSIONS WITHIN THE CONCRETE



STOP LOGS (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)



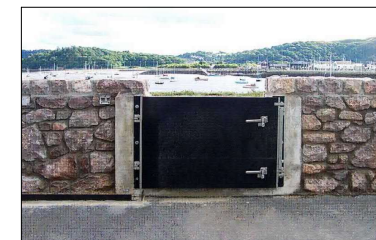
DEPLOYED FLIP-UP FLOOD BARRIER (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)



PRE-CAST CONCRETE PANELS TEXTURED WITH NATURAL STONE FINISH (PHOTO FROM RPC CONTRACTS LTD)



STONE WALL (PHOTO FROM ACE BRICK AND STONEMAN)



FLOOD GATE (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING UNDER APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.

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| DRAFT ISSUE | GB | E1 | 16/09/19 | P1 |
| Revision Details | By | Check | Date | Scale |

FOR INFORMATION

Client
EASTERN SOLENT COASTAL PARTNERSHIP

Project Title
OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME

Drawing Title
WALL MATERIAL OPTIONS

| | | | | |
|----------|-------|---------|----------|----------|
| Designed | Drawn | Checked | Approved | Date |
| GB | GB | E1 | PNJ | 16/09/19 |

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P1