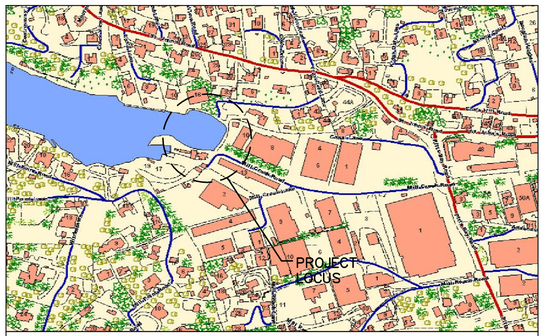
MINISTRY OF WORKS AND ENGINEERING

PEMBROKE CANAL
OUTFALL REHABILITATION



LOCUS PLAN SCALE: 1:2500

PROJECT NO. 34-27-10

OCTOBER 2010

DRAWING LIST

THE MINISTRY OF WORKS AND ENGINEERING

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GENERAL NOTES:

ISSUED FOR: TENDER 10/08/10

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	.	.	.

SCALE:

SURVEY
PREPARED BY: DATE:

DESIGN
PREPARED BY: PEH DATE:
CHECKED BY: RJT DATE:

DRAWING
PREPARED BY: JRB DATE:
CHECKED BY: RJT DATE:

APPROVED BY:
RJT

PROJECT NUMBER:
34-27-10

PROJECT NAME:

PEMBROKE CANAL
OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: REVISION 1

X:\2452\ACV\TITLE SHEET REV.dwg

1.0 GENERAL NOTES:

1.1 ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION DOCUMENT. WHERE A DISCREPANCY BETWEEN THE DRAWINGS AND THE SPECIFICATION IS FOUND THE CONTRACTOR SHALL BRING IT TO THE ENGINEER'S ATTENTION. THE SPECIFICATION DOCUMENT CONTAINS MORE DETAILED REQUIREMENTS BUT THE FOLLOWING NOTES CONTAIN A SUMMARY OF MATERIALS WHICH SHALL BE USED.

1.2 DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE ONLY FIGURED DIMENSIONS AND SETTING OUT POINTS. ANY AMBIGUITIES OR DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION.

1.3 ALL ELEVATIONS SHOWN ARE IN METRES RELATIVE TO ORDNANCE DATUM.

1.4 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

1.5 CONTRACTOR TO MAKE GOOD ANY DAMAGES CAUSED ON SITE, REPAIRING TO MATCH EXISTING OR AS APPROVED BY THE ENGINEER.

1.6 DESIGN CRITERIA

TRUCK LOADING IS BASED ON BERMUDA EVALUATION LOAD.
MAX AXLE LOADING IS TWO 88 KN AXLES SPACED 1.0M APART.
VEHICLE SURCHARGE LOAD IS 10 KN/M^2

2.0 SCOPE OF WORK

2.1 THE WORK CONSISTS OF CONSTRUCTION OF A CONCRETE BOX CULVERT COMPLETE WITH PRECAST CONCRETE INLET AND OUTLET STRUCTURES, FLAP GATE AND ALL OTHER NECESSARY COMPONENTS TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.

2.2 THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY MATERIALS TO COMPLETE THE WORKS.

2.3 CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, TRUCKING, SUPERVISION AND LABOUR TO TRANSPORT EMPLOYER SUPPLIED MATERIALS TO SITE.

3.0 METHOD STATEMENT AND TEMPORARY WORKS

3.1 AS SOON AS POSSIBLE FOLLOWING AWARD OF THE CONTRACT AND PRIOR TO COMMENCING ANY WORK ON SITE THE CONTRACTOR SHALL SUBMIT A DETAILED METHOD STATEMENT (SEE SPEC SECTION 01300). METHOD STATEMENT SHALL INCLUDE DESCRIPTION OF SEQUENCE OF WORK.

3.2 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING STABILITY OF WALLS AND EXCAVATIONS AT ALL TIMES.

3.3 PROPOSED SEQUENCE OF WORK IS AS FOLLOWS:

1. CONSTRUCT ALL PRECAST UNITS
2. DEMOLISH OUTFALL
3. CHECK CLEARANCE TO INSTALL PILES
4. DRIVE H–PILES
5. INSTALL PRECAST OUTLET AND DOWNSTREAM HEADWALL
6. CAST IN PLACE CONCRETE AROUND OUTSHORE PILES
7. INSTALL NEW FLAPGATE
8. DEMOLISH EXISTING OUTSHORE WALL AND CULVERT SUFFICIENT TO INSTALL NEW CULVERT
9. CONCRETE AROUND PILES AND WALL/BOX CONNECTION
10. COMPLETE STRUCTURE
11. INSTALL GRATING, ETC.
12. PAVING

3.4 IT IS CRITICAL TO OVERALL PERFORMANCE THAT ALL PRECAST ELEMENTS ARE TIED TOGETHER. TIES TO PROVIDE MINIMUM CAPACITY OF 350KN (80 KIPS)

3.5 CONTRACTOR SHALL MAINTAIN OUTFLOW OF CANAL AND LIMIT ANY TIDAL INFLOW.

4.0 SITE LIMITS AND CONSTRAINTS

4.1 SITE LIMITS SHALL BE AS SPECIFIED BY THE ENGINEER.

4.2 CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, DRAINS AND DUCTS. CONTRACTOR SHALL REPAIR ANY UNDERGROUND UTILITIES, PIPES, DRAINS AND DUCTS DAMAGED DURING THE COURSE OF THE WORK AT NO ADDITIONAL COST TO THE EMPLOYER.

4.3 CONTRACTOR SHALL PROTECT ALL ROAD SURFACES, KERBS, PAVED AREAS, UTILITIES AND SIGNS FROM DAMAGE DURING THE COURSE OF THE WORK. ON COMPLETION OF THE WORK, ALL SUCH AREAS SHALL BE FULLY REINSTATED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE EMPLOYER.

4.4 UTILITIES SHALL BE RELOCATED AS REQUIRED.

5.0 EMPLOYER INSPECTIONS

5.1 THE EMPLOYER OR HIS REPRESENTATIVE MAY INSPECT THE WORK AND THE CONTRACTOR SHALL PROVIDE REASONABLE ASSISTANCE AS REQUESTED BY THE EMPLOYER.

6.0 EARTHWORKS

6.1 CONTRACTOR SHALL BACKFILL ALL STRUCTURES EVENLY. MAX DIFFERENCE IN LEVEL OF SOIL EACH SIDE OF ANY STRUCTURE SHALL NOT EXCEED 500MM.

6.2 FINAL PAVING SHOULD BE DELAYED AT LEAST SIX MONTHS TO ALLOW SETTLEMENT OF FILL AROUND STRUCTURE.

7.0 MATERIALS

7.1 ALL STEEL H–PILES AND OTHER STEEL SECTIONS SHALL BE GRADE ASTM A572–50 OR EQUAL UNLESS SHOWN OTHERWISE.

7.2 PIPES TO BE WEHOLITE PIPE BY KWH PIPE, CLASS 250 TO ASTM F894, OR APPROVED EQUAL.

7.3 FLAP GATES TO BE STAINLESS STEEL RATED FOR MINIMUM 5M SEATING HEAD, DESIGNED FOR SIDE–MOUNTING AT 10° FROM HORIZONTAL, COMPLETE WITH WALL THIMBLE, FASTENERS AND RUBBER SEATING FACE.

MATERIALS: GATE: 304SS –PLATE: ASTM A167/A240 TYPE 304/304L
–STRUCTURAL: ASTM A276 TYPE 304/304L
FASTENERS: 304SS–ASTM F593 1594 TYPE 304.
SEALS: RUBBER–NEOPRENE 02000 NON–RECLAIMED.
THIMBLE: AS PER GATE
SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH CONTRACT DOCUMENTS

7.4 CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. CHARACTERISTIC STRENGTH	MAX. WATER/CEMENT RATIO	MAX. AGGREGATE SIZE
PILE JACKETS	30MPa (4500psi)	0.4	10mm
OTHER CONCRETE	30MPa (4500psi)	0.45	20mm

7.5 CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING ANY CONCRETE. NO ADDITIVES SHALL BE USED WITHOUT THE EXPRESS PRIOR APPROVAL OF THE ENGINEER. NO CONCRETE SHALL BE PLACED UNDERWATER WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

7.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING QUALIFIED PERSONNEL FOR ALL TESTING AND SAMPLING OF CONCRETE AS DESCRIBED IN THE STANDARD SPECIFICATION.

7.7 THE CONTRACTOR SHALL GIVE A MINIMUM OF 24 HOURS NOTICE TO THE ENGINEER PRIOR TO POURING ANY CONCRETE.

7.8 REINFORCING STEEL SHALL BE HIGH YIELD 410MPA (GRADE 60) DEFORMED BARS, HOT DIP GALVANIZED. ALL CUT ENDS AND OTHER DAMAGED AREAS OF GALVANIZING SHALL BE COATED WITH ZINC RICH PAINT. ZINC RICH PAINT SHALL BE AN ORGANIC ZINC–RICH COATING CONTAINING 95% METALLIC ZINC, BY WEIGHT IN THE DRIED FILM.

7.9 CONCRETE COVER TO REINFORCEMENT SHALL BE 75MM MIN. UNLESS NOTED OTHERWISE.

7.10 MINIMUM REINFORCEMENT SPLICES SHALL BE AS FOLLOWS:
T12 BAR 450MM
T16 BAR 600MM
T20 BAR 750MM

7.11 ALL TIMBER SHALL BE CCA PRESSURE TREATED NO.2 SOUTHERN PINE OR EQUAL. ALL TIMBER HARDWARE SHALL BE STAINLESS STEEL.

7.12 ALL DOWELS AND ANCHOR BOLTS SHALL BE EPOXY GROUTED IN POSITION USING HILTI HY–150 ADHESIVE ANCHORAGE SYSTEM FOR ANCHORAGE TO CONCRETE OR EQUAL APPROVED. ALL GROUTING SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

7.13 ALL HARDWARE SHALL BE STAINLESS STEEL UNLESS SHOWN OTHERWISE.

7.14 ALL RAILINGS SHALL BE 38MM INT. DIA. SCHEDULE 40 GALVANIZED PIPE USING GALVANIZED KEEKLAMP FITTINGS.

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ISSUED FOR: TENDER 10/08/10

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	.	.	.

SCALE:

SURVEY
PREPARED BY: DATE:

DESIGN
PREPARED BY: PEH DATE: 10/08/10
CHECKED BY: RJT DATE: 10/08/10

DRAWING
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

APPROVED BY: RJT

PROJECT NUMBER: 34–27–10

PROJECT NAME:

PEMBROKE CANAL
OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: S1

REVISION: 1

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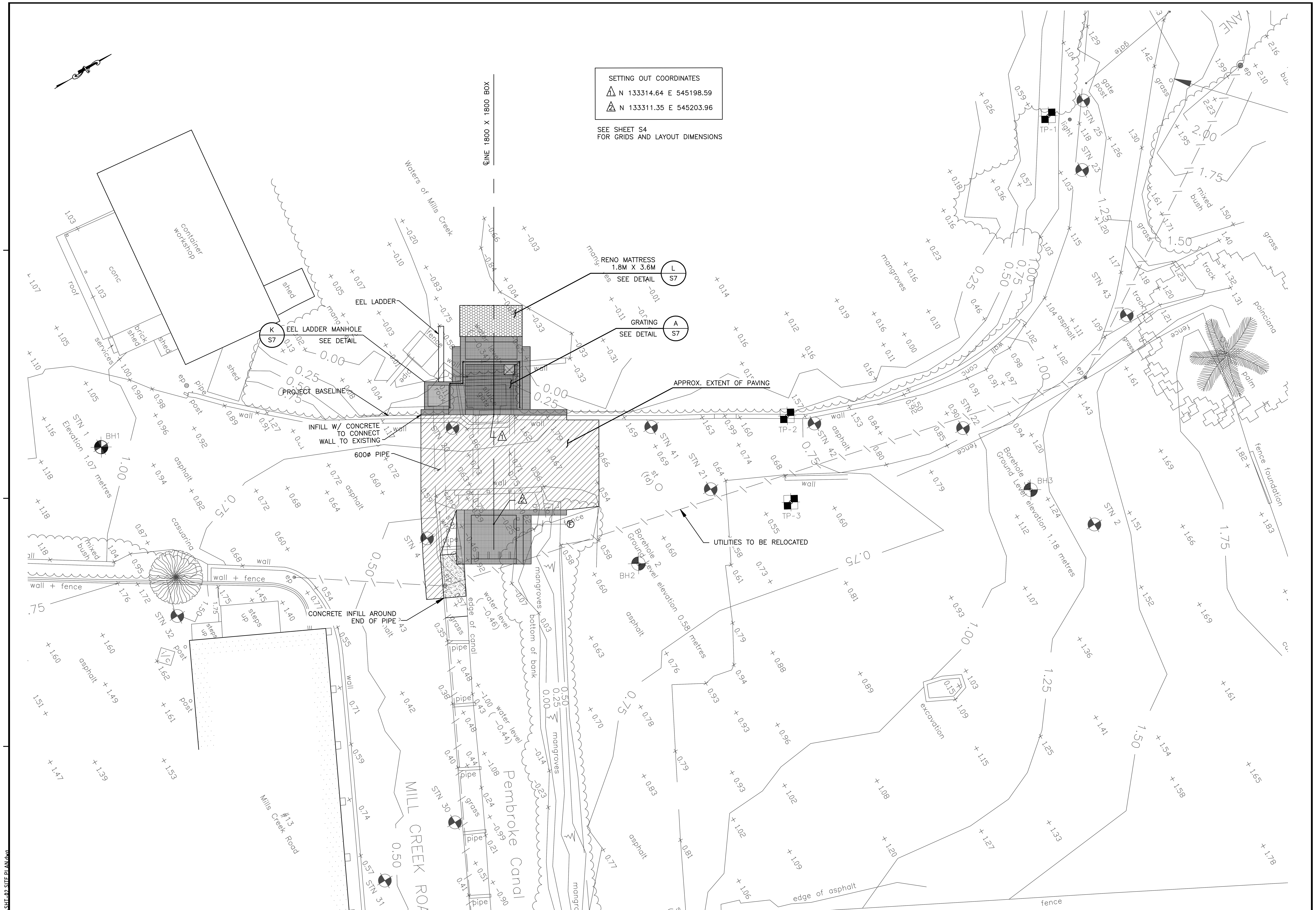

CULVERT LAYOUT

A / S2

SCALE: 1:100

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SCALE: 1:100

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PREPARED BY: PEH DATE: 2/26/10
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PREPARED BY: PEH DATE: 2/26/10
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PROJECT NUMBER: 34-27-10

PROJECT NAME:
PEMBROKE CANAL
OUTFALL REHABILITATION

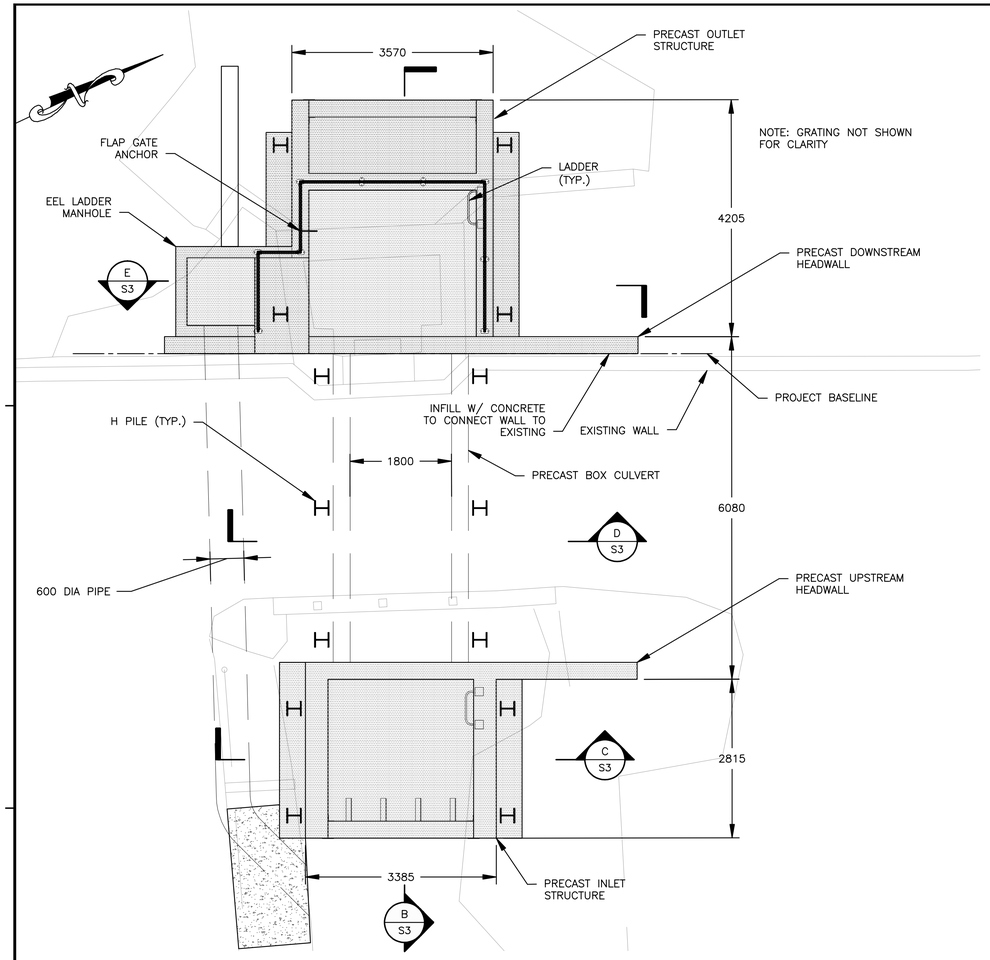
MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

SHEET TITLE:
SITE PLAN

SHEET NUMBER: S2

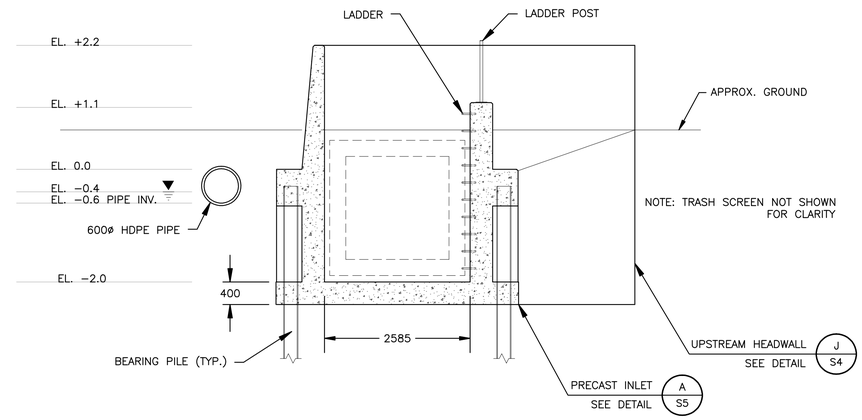
REVISION



CULVERT PLAN

A S3

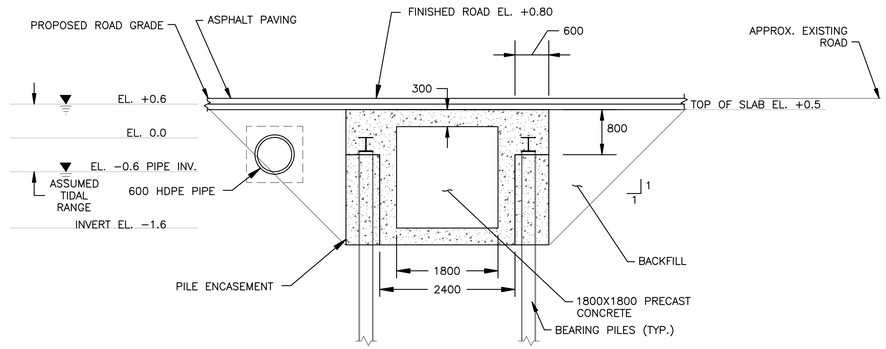
SCALE: 1:50



INLET SECTION

C S3

SCALE: 1:50



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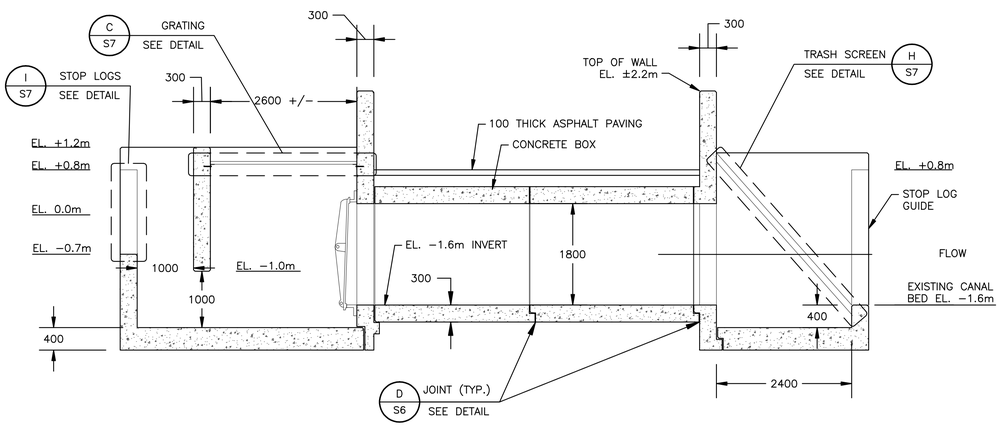

ROADWAY SECTION

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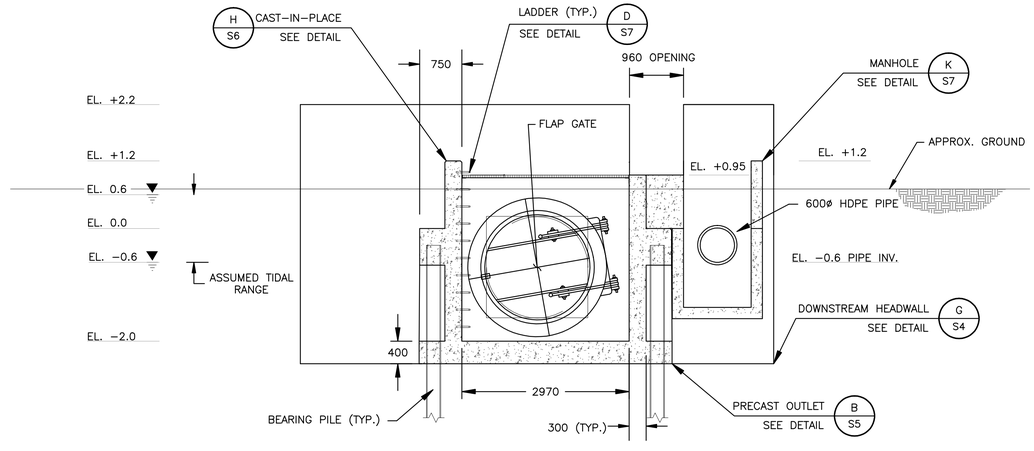

OUTLET SECTION

E S3

SCALE: 1:50

0 2
SCALE 1:50

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ISSUED FOR:	TENDER	10/08/10

AMENDMENTS:

NO:	REVISION	APP	DATE:
A	SINGLE CULVERT	RJT	09/01/10

SCALE: 1:50

SURVEY
PREPARED BY: DATE:

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PREPARED BY: PEH DATE: 2/26/10
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PREPARED BY: PEH DATE: 2/26/10
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PROJECT NUMBER: 34-27-10

PROJECT NAME:

PEMBROKE CANAL
OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

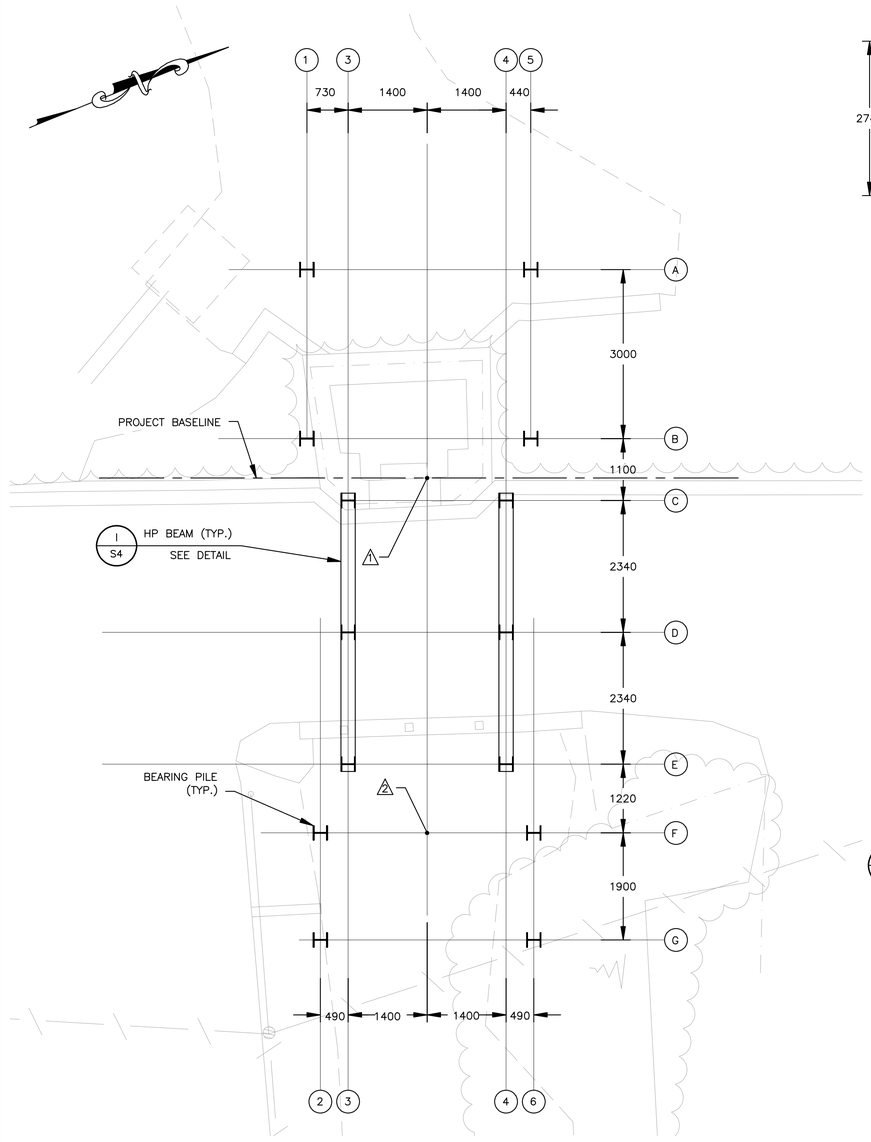
SHEET TITLE:

GENERAL LAYOUT

SHEET NUMBER: S3

REVISION A

X:\27x\27-x\27-10\GENERAL DESIGN\S3 GENERAL LAYOUT.DWG

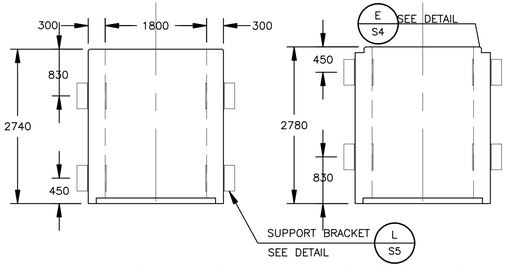


PILE PLAN

A S4

SCALE: 1:50

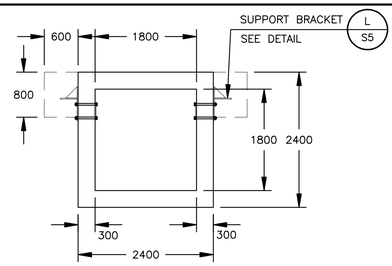
NOTES:
1. SEE SHEET 2 FOR LAYING OUT COORDINATES
2. ALL BEARING PILES TO BE DRIVEN TO WORKING LOAD= 50 TONS



PRECAST BOX CULVERT PLANS

B S4

SCALE: 1:50



BOX CULVERT SECTION

C S4

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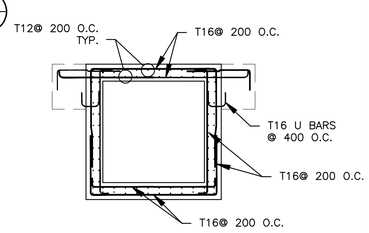
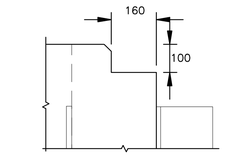


BOX CULVERT REBAR

D S4

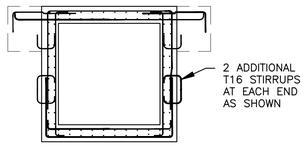
SCALE: 1:50



JOINT DETAIL (TYP.)

E S4

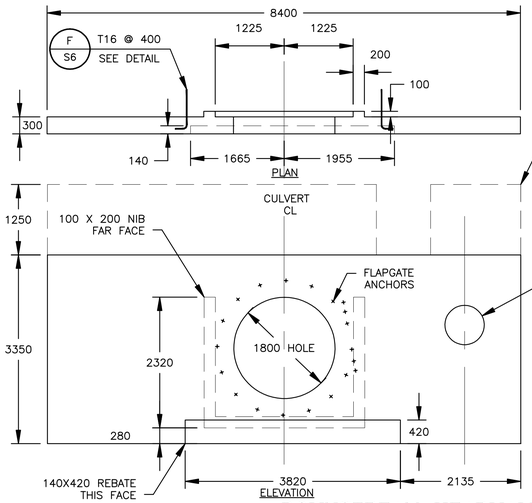
SCALE: 1:10



BOX CULVERT REBAR

F S4

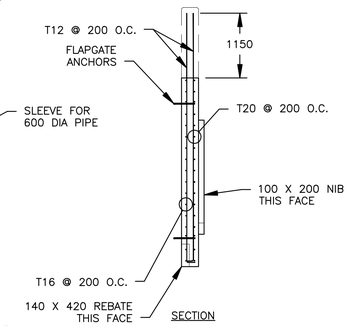
SCALE: 1:50

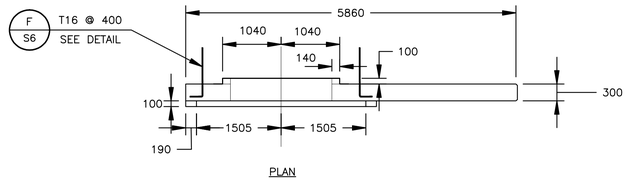


DOWNSTREAM HEADWALL

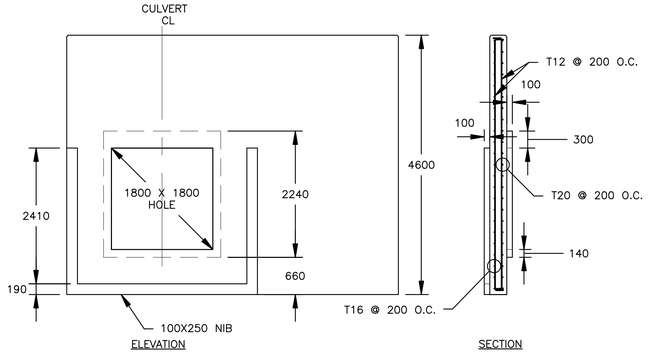
G S4

SCALE: 1:50





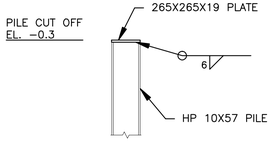
NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LIFTING DETAILS.
2. CONTRACTOR SHALL PROVIDE SUITABLE LIFTING POINTS.



UPSTREAM HEADWALL

J S4

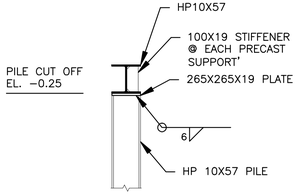
SCALE: 1:50



H PILE CAP PLATE

H S4

SCALE: 1:25



HP BEAM

I S4

SCALE: 1:25

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ISSUED FOR: TENDER 10/08/10

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	.	.	.

SCALE: VARIES

SURVEY
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DESIGN
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

DRAWING
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

APPROVED BY:
RJT

PROJECT NUMBER:
34-27-10

PROJECT NAME:

PEMBROKE CANAL
OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

SHEET TITLE:

PILE PLAN/PRECAST
DETAILS

SHEET NUMBER: S4

REVISION: 1

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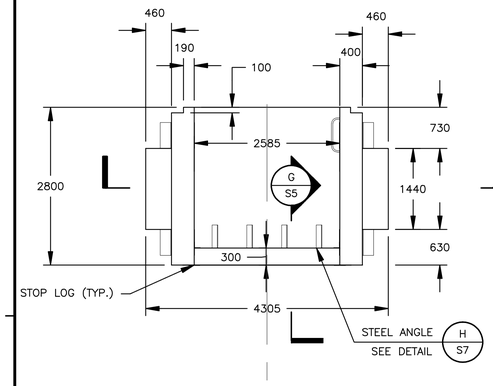
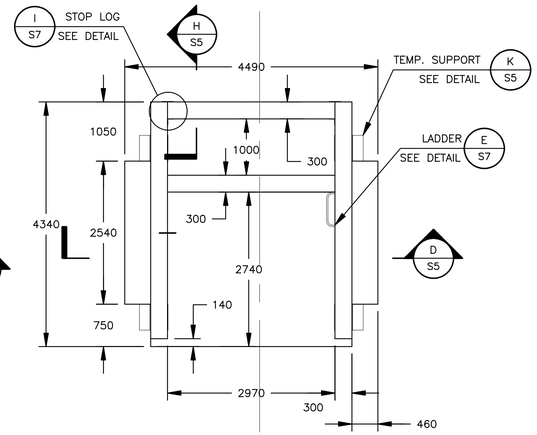


A S5 PRECAST INLET PLAN

SCALE: 1:50



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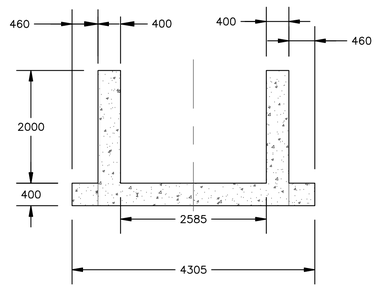
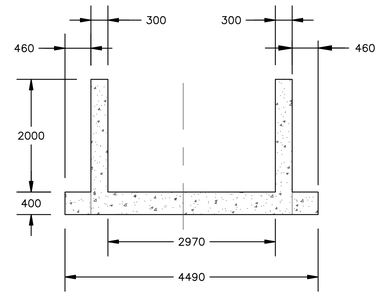
SCALE: 1:50



C S5 PRECAST INLET DIMENSIONS

SCALE: 1:50



D S5 PRECAST OUTLET DIMENSIONS

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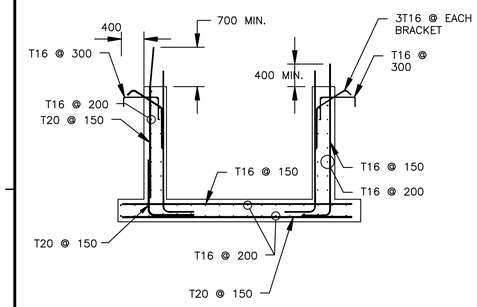
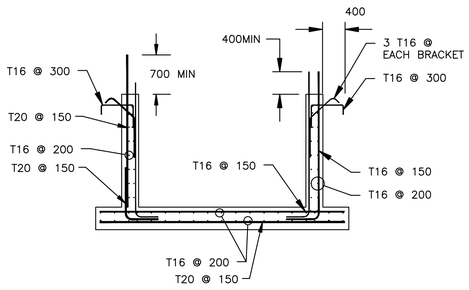


E S5 PRECAST INLET REINFORCING

SCALE: 1:50



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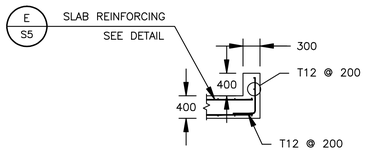
SCALE: 1:50



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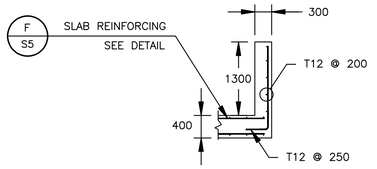
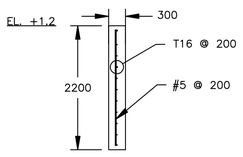
SCALE: 1:50



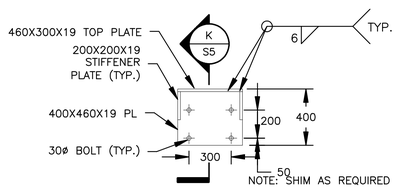
H S5 PRECAST OUTLET REINFORCING

SCALE: 1:50



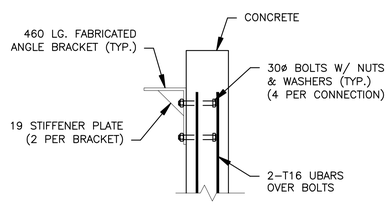
I S5 INTERNAL WALL (OUTLET)–SECTION

SCALE: 1:20



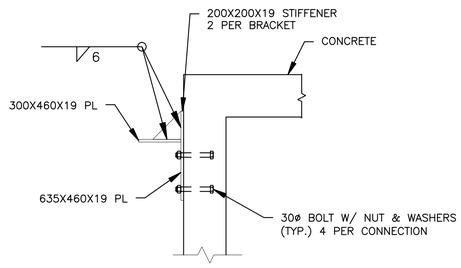
J S5 TEMPORARY SUPPORT DETAIL

SCALE: 1:20



K S5 TEMPORARY SUPPORT DETAIL –INLET/OUTLET

SCALE: 1:20



L S5 TEMPORARY SUPPORT DETAIL –BOX CULVERT

SCALE: 1:20

NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LIFTING DETAILS.
2. CONTRACTOR SHALL PROVIDE SUITABLE LIFTING POINTS.

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ISSUED FOR: TENDER 10/08/10

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	.	.	.

SCALE: VARIES

SURVEY
PREPARED BY: DATE:

DESIGN
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

DRAWING
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

APPROVED BY: RJT

PROJECT NUMBER: 34-27-10

PROJECT NAME:

PEMBROKE CANAL
OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

SHEET TITLE:

PRECAST DETAILS

SHEET NUMBER: S5

REVISION: 1

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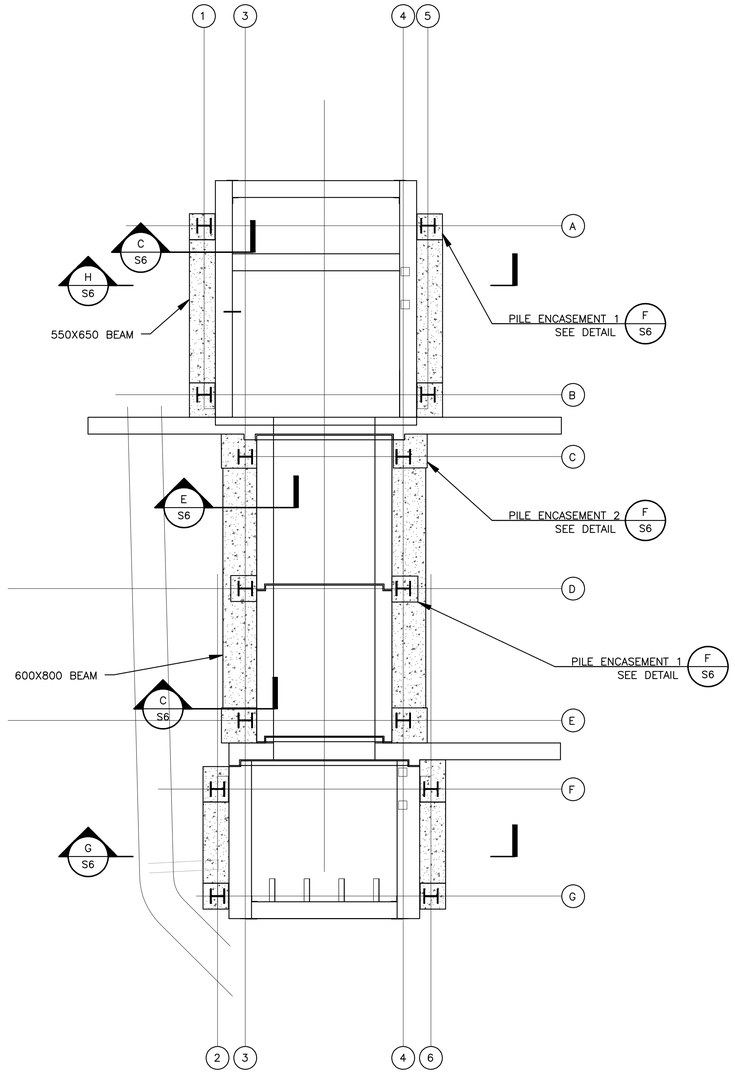
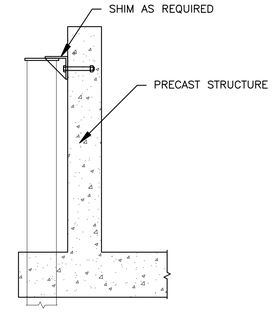


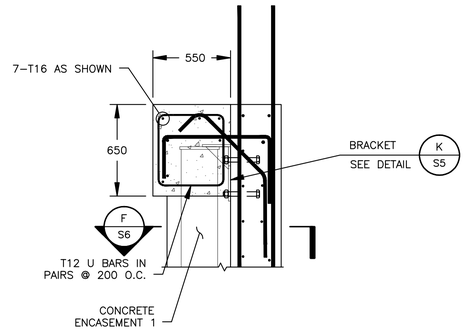
A S6 CAST-IN-PLACE CONCRETE PLAN

SCALE: 1:50



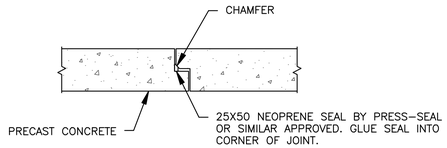
B S6 TEMPORARY SUPPORT (TYP.)

SCALE: 1:25



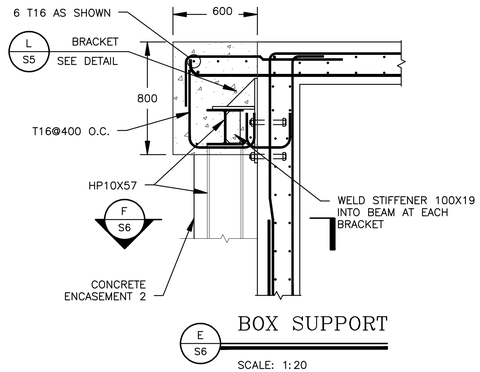
C S6 PILE CAP REINFORCEMENT (TYP.)

SCALE: 1:20



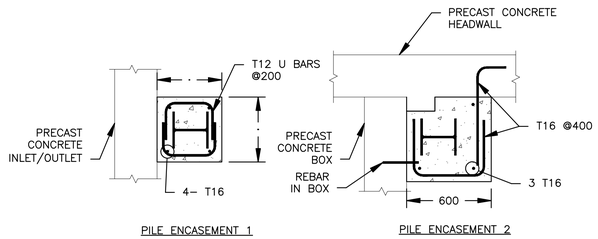
D S6 JOINT DETAIL

SCALE: 1:20



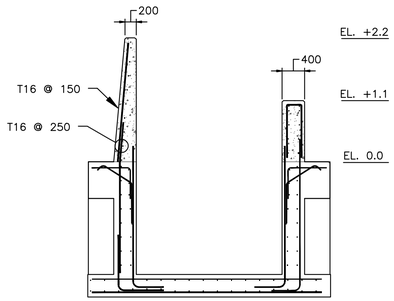
E S6 BOX SUPPORT

SCALE: 1:20



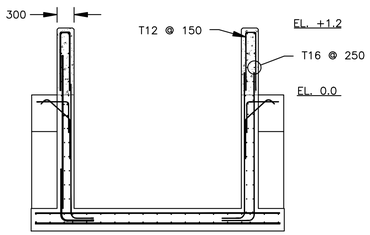
F S6 PILE ENCASEMENT DETAILS

SCALE: 1:20



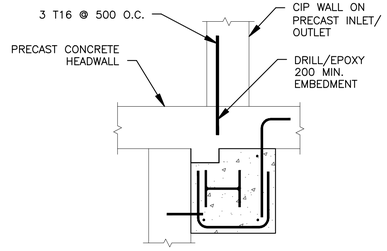
G S6 PRECAST INLET REINFORCING

SCALE: 1:50



H S6 PRECAST OUTLET REINFORCING

SCALE: 1:50



I S6 TIE BAR

SCALE: 1:20

X:\29712-\29770\FINAL DESIGN\S6 PRECAST INSTALLATION.DWG

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ISSUED FOR: TENDER 10/08/10

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	.	.	.

SCALE: VARIES

SURVEY
PREPARED BY: DATE:

DESIGN
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

DRAWING
PREPARED BY: PEH DATE: 2/26/10
CHECKED BY: RJT DATE: 2/26/10

APPROVED BY: RJT

PROJECT NUMBER: 34-27-10

PROJECT NAME:

PEMBROKE CANAL OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

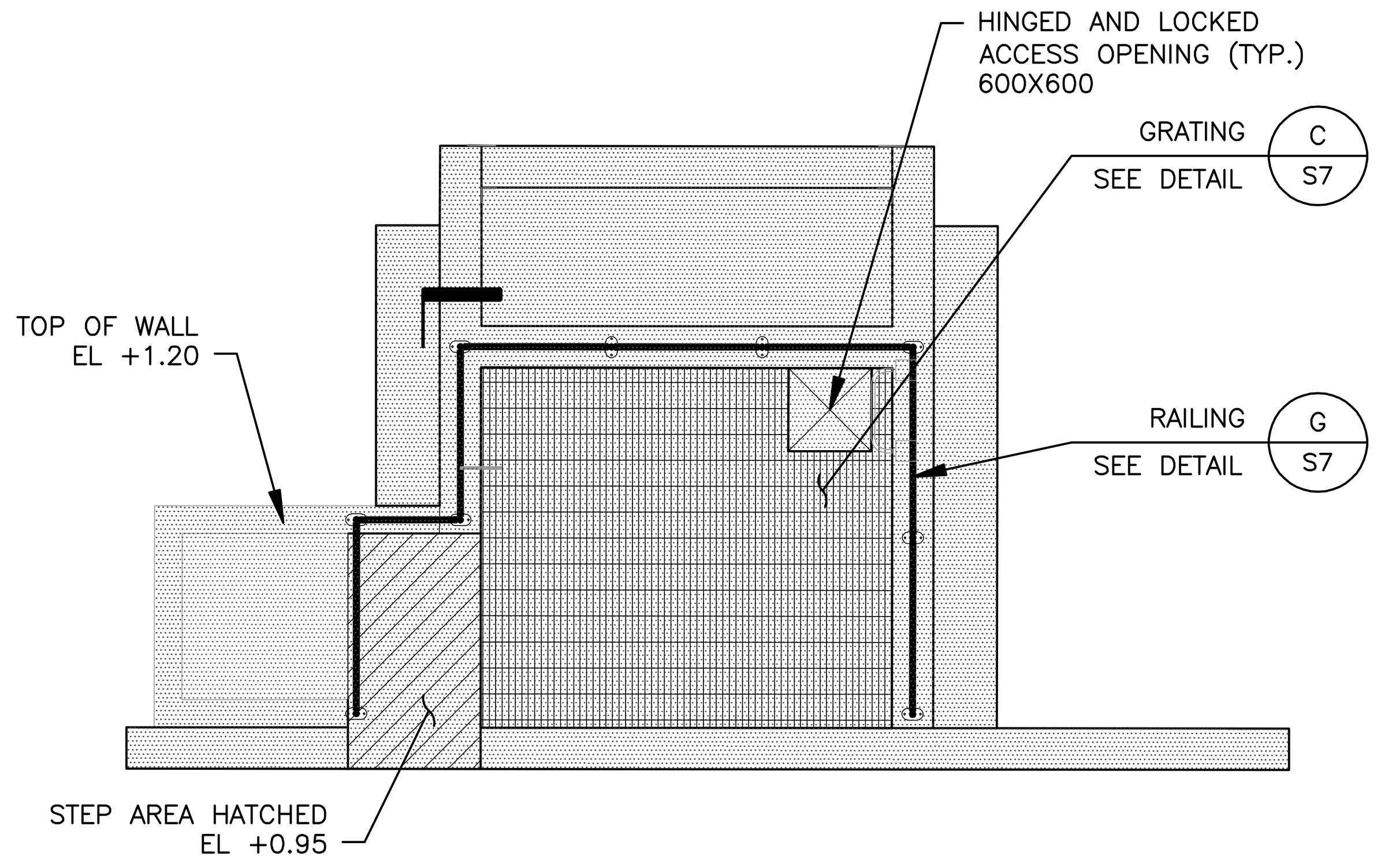
DRAWING FILE NO:

SHEET TITLE:

PRECAST INSTALLATION

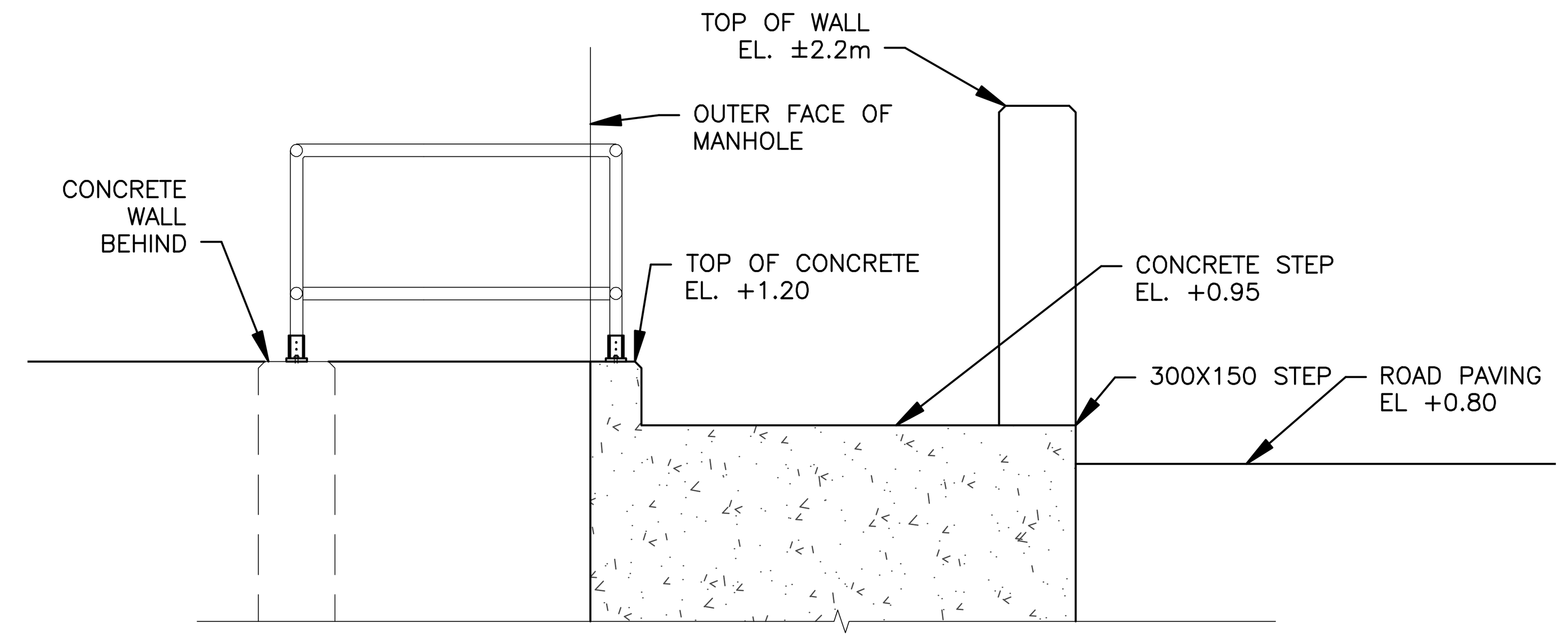
SHEET NUMBER: S6

REVISION 1



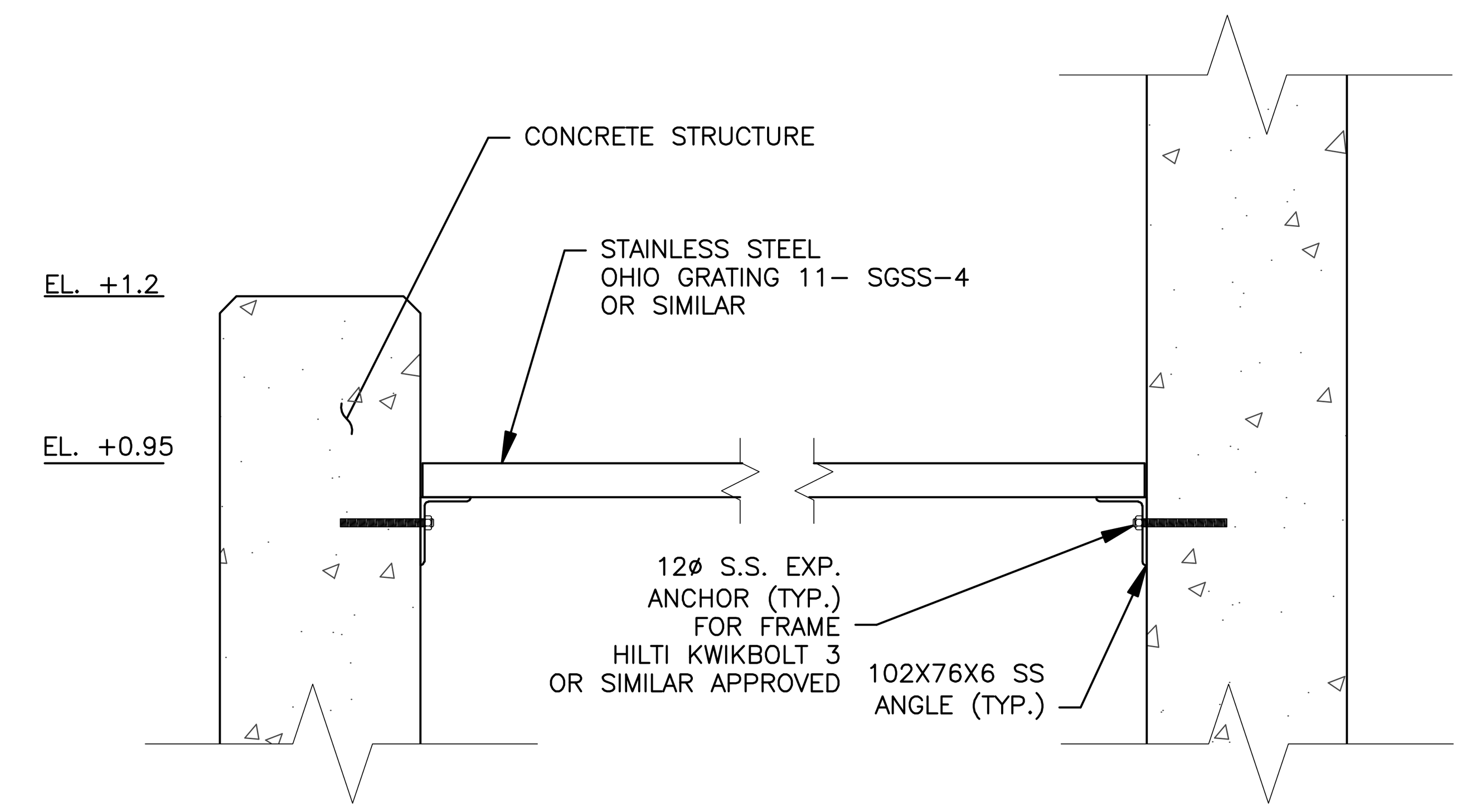
A S7 DECKING PLAN

SCALE: 1:50



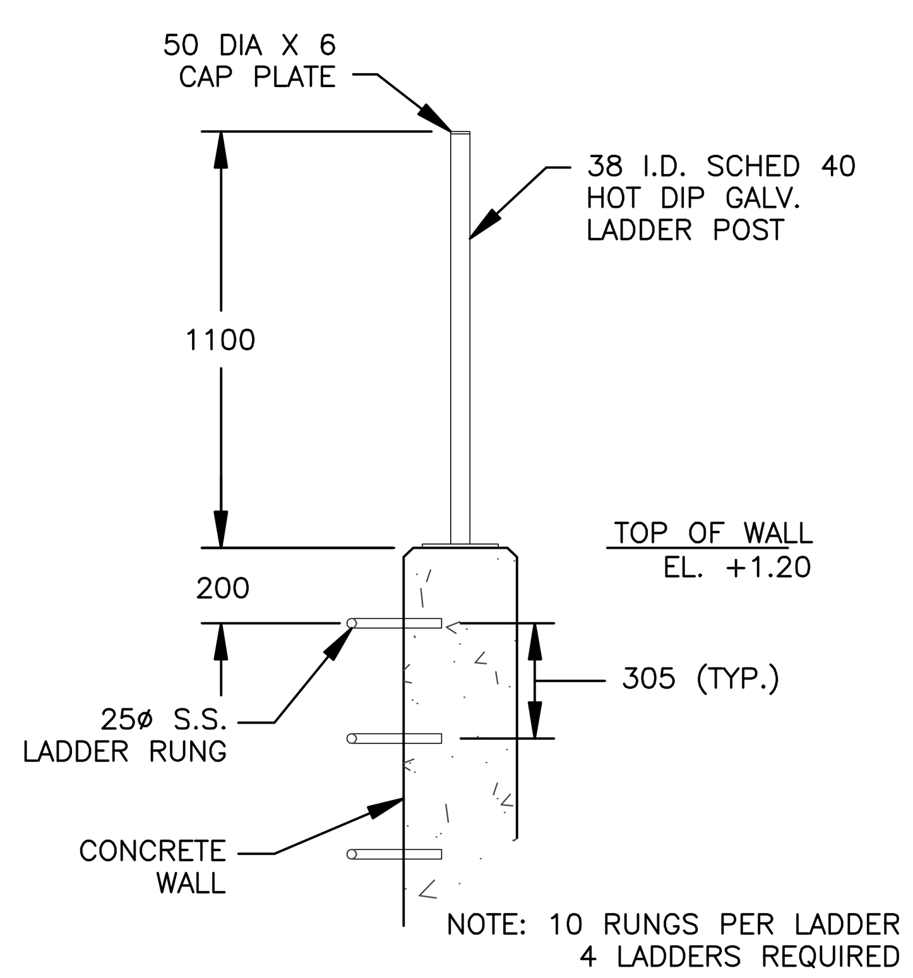
B S7 CONCRETE STEPS

SCALE: 1:25



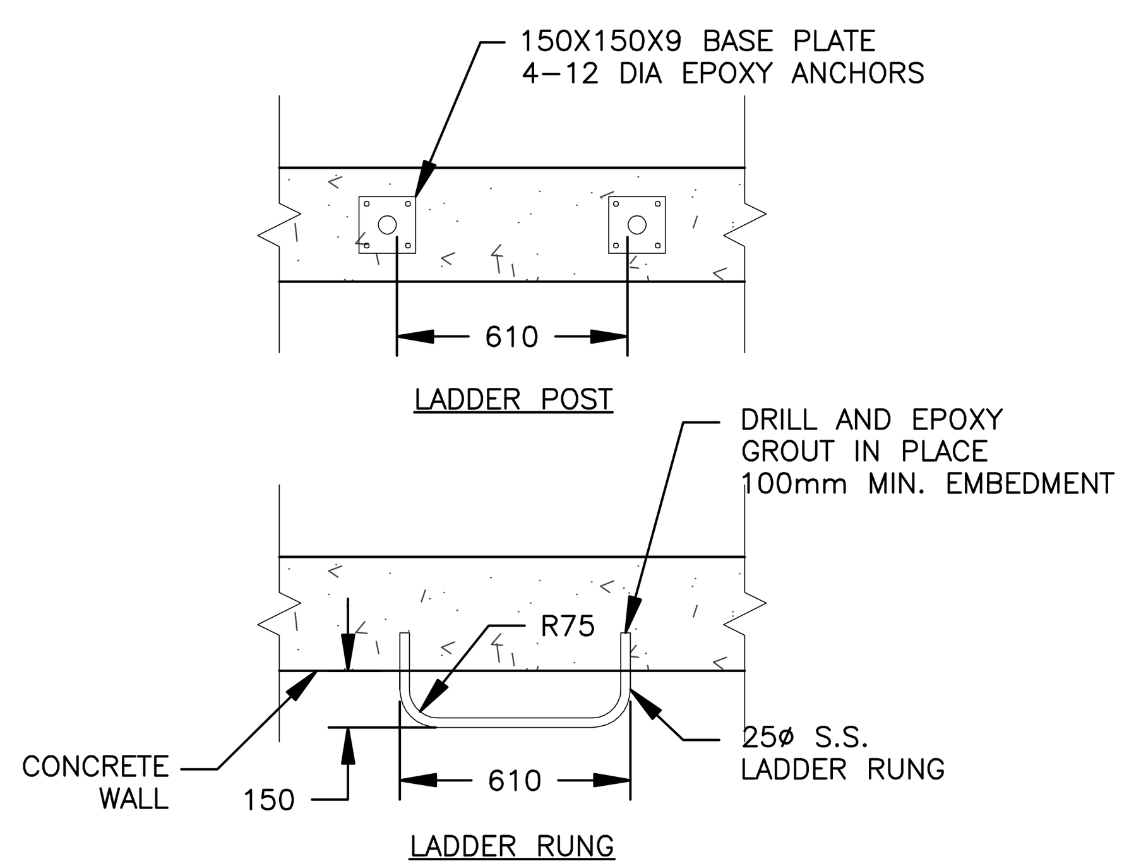
C S7 GRATING DETAIL

SCALE: 1:10



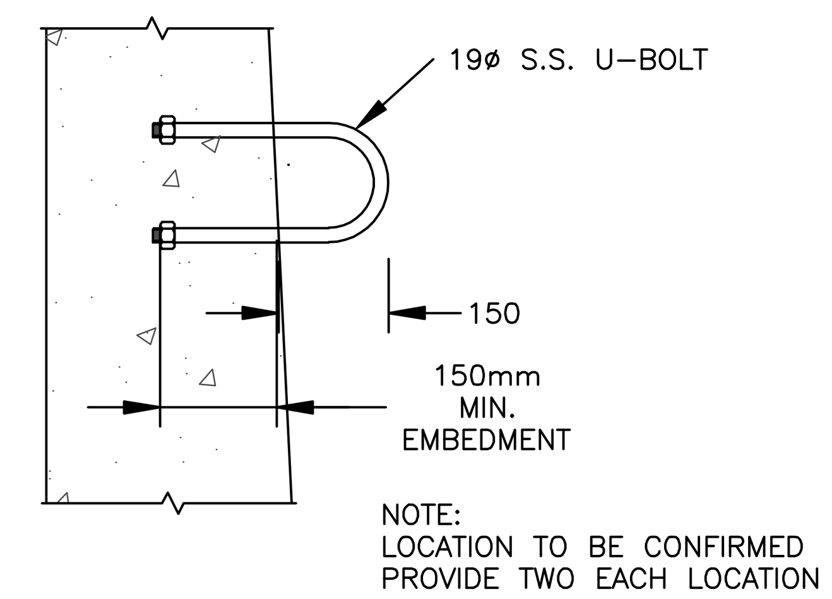
D S7 LADDER–SECTION

SCALE: 1:20



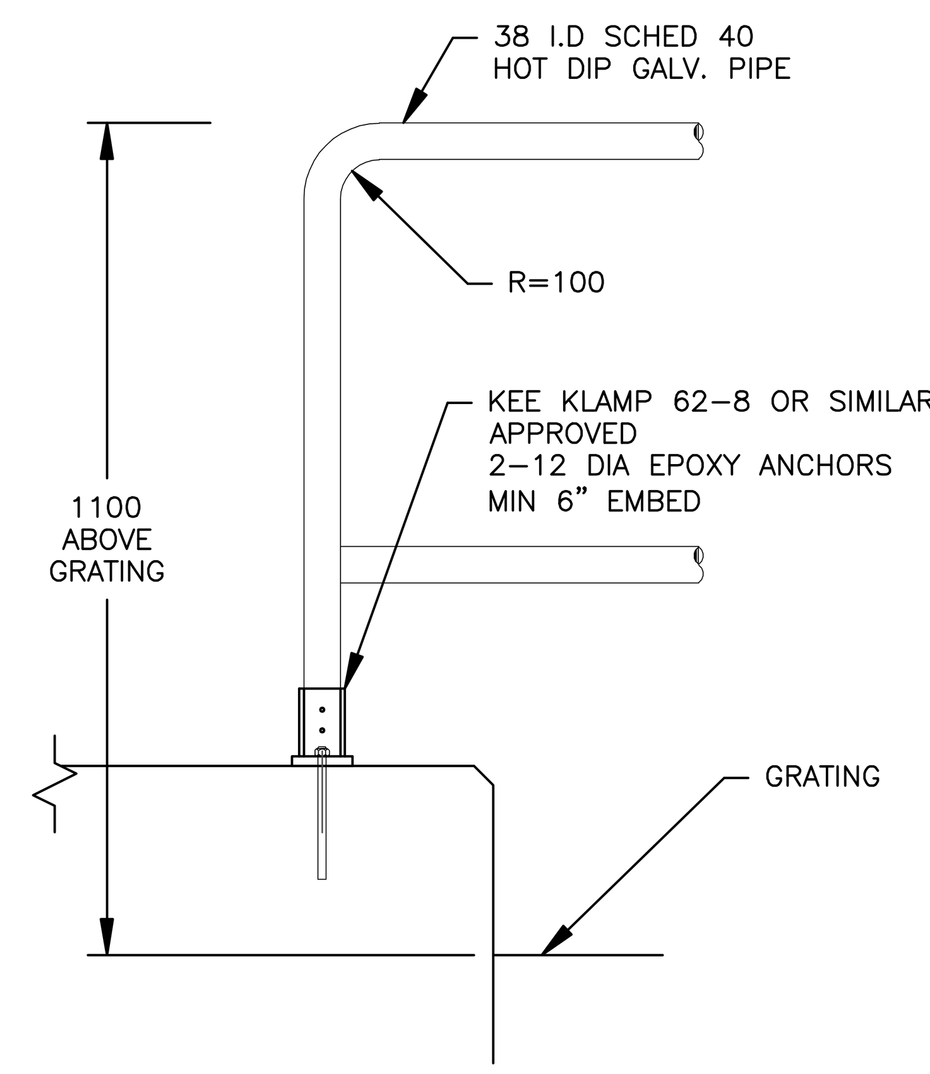
E S7 LADDER PLAN

SCALE: 1:20



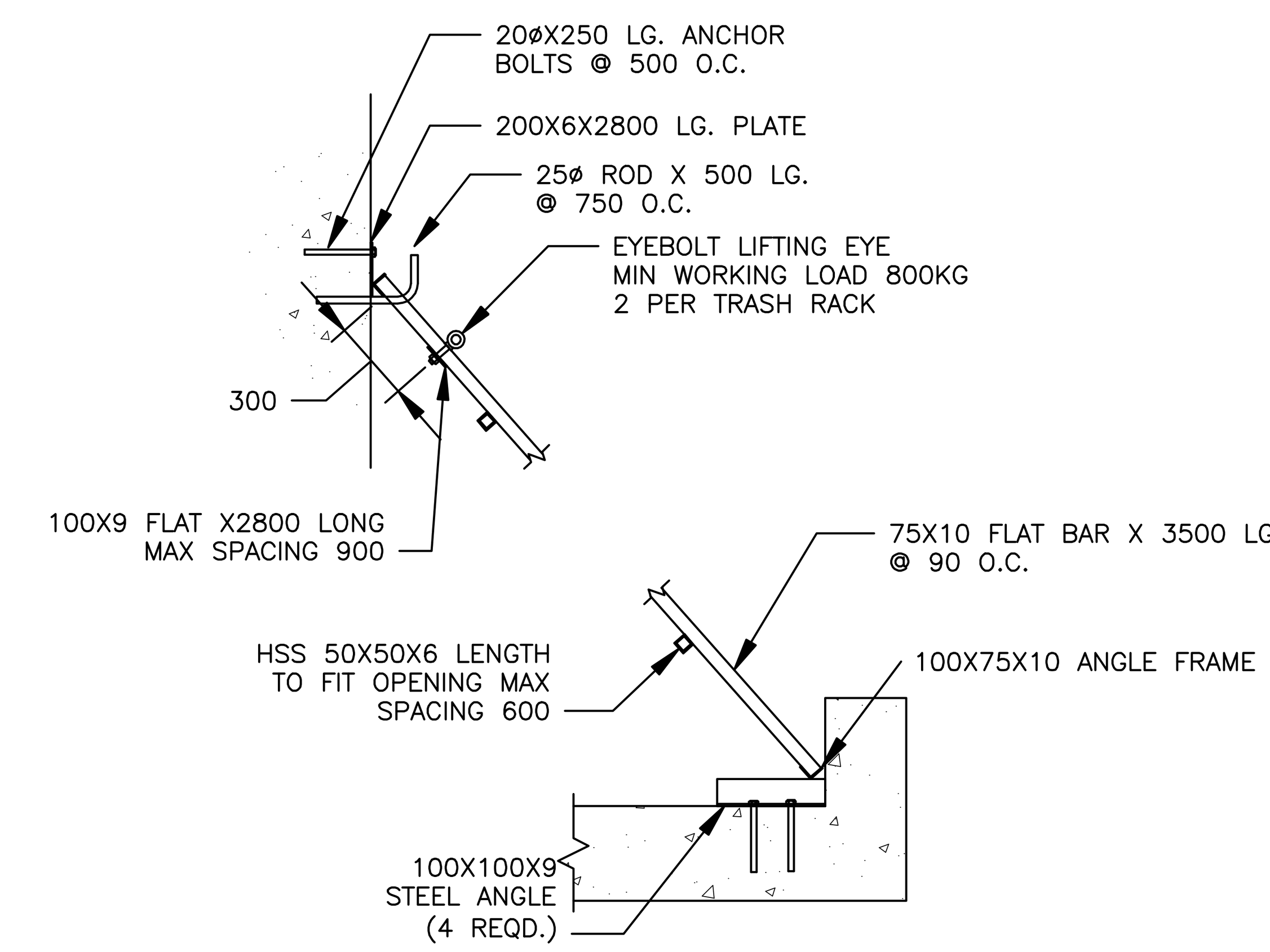
F S7 FLAP GATE LOCK

SCALE: 1:10



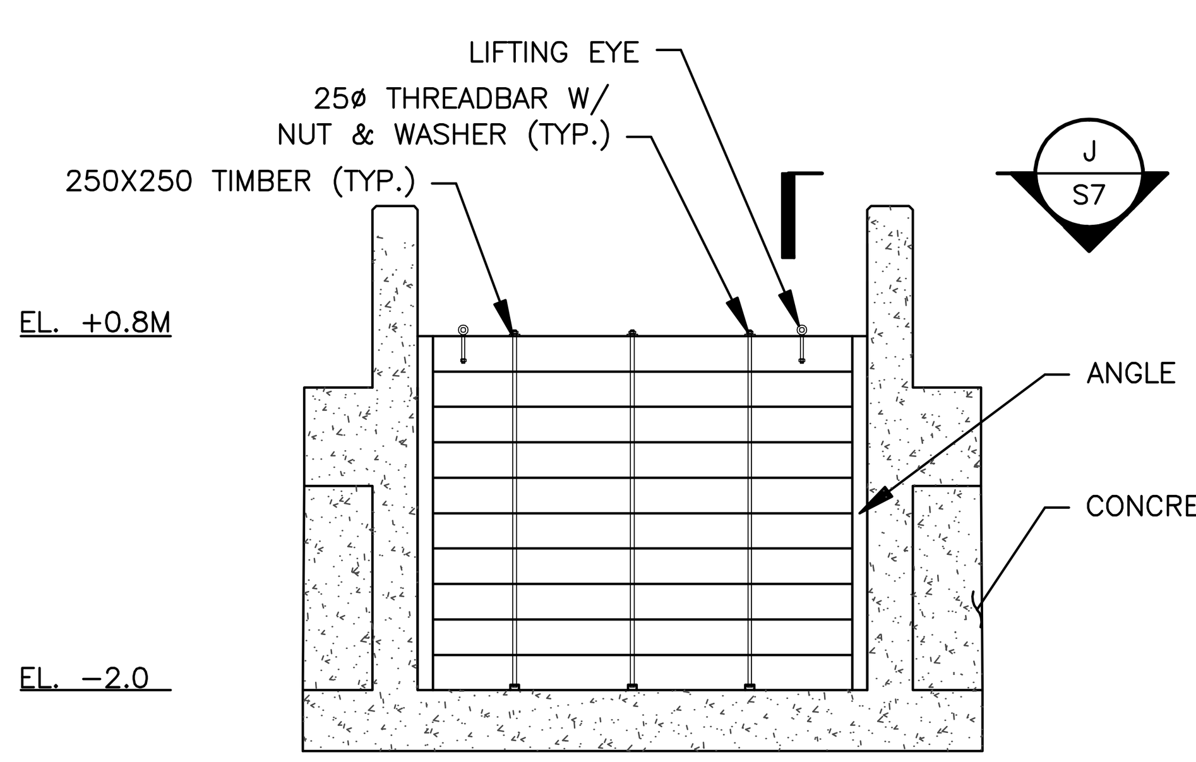
G S7 RAILING

SCALE: 1:10



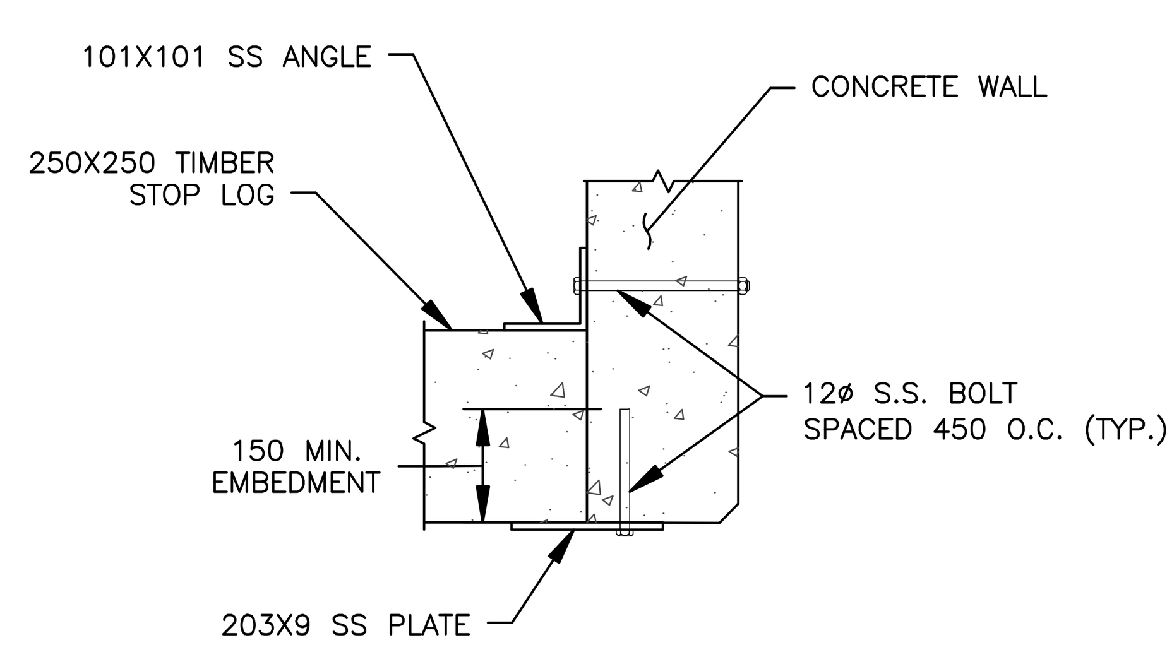
H S7 TRASH SCREEN

SCALE: 1:25



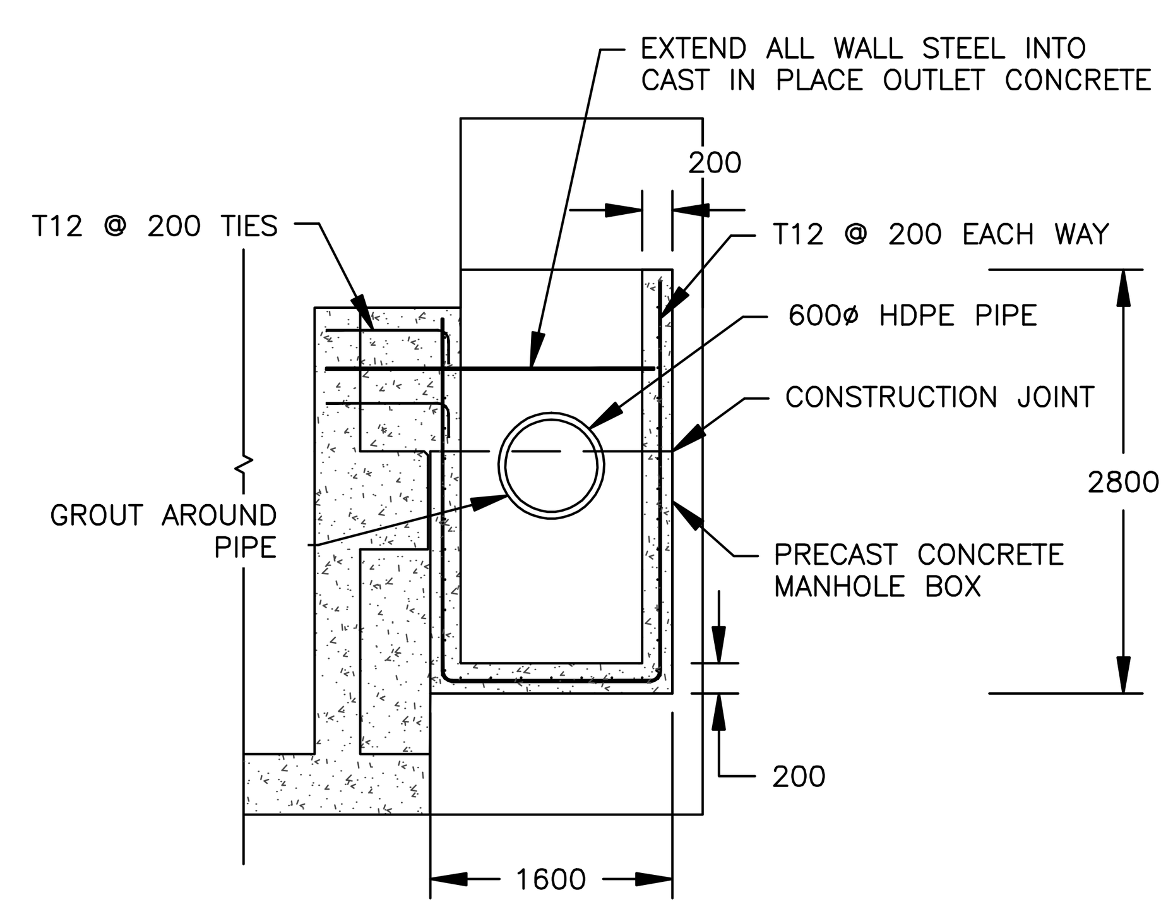
I S7 STOP LOG ELEVATION

SCALE: 1:50



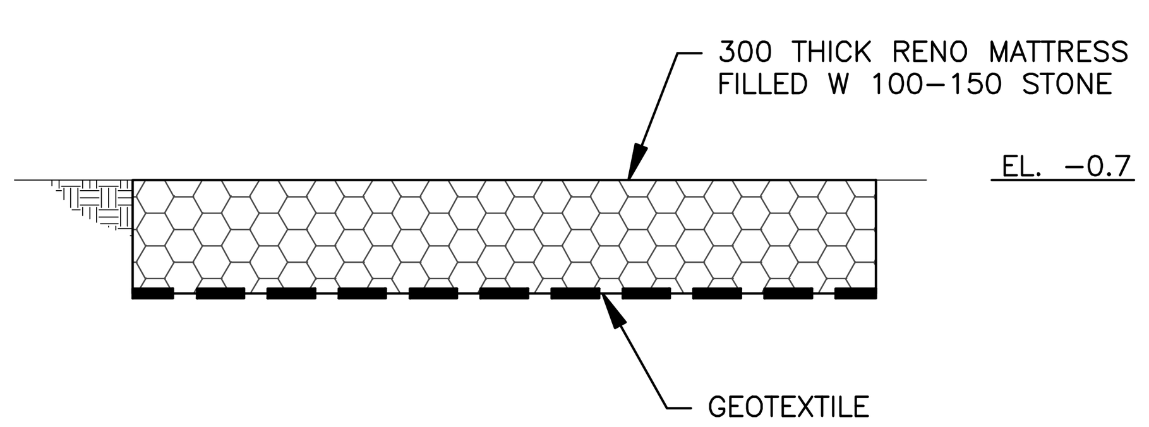
J S7 STOP LOG DETAIL

SCALE: 1:10



K S7 CONCRETE MANHOLE

SCALE: 1:50



L S7 RENO MATTRESS

SCALE: 1:20

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PROJECT NUMBER: 34-27-10

PROJECT NAME:
PEMBROKE CANAL OUTFALL REHABILITATION

MILL CREEK ROAD
PEMBROKE PARISH

DRAWING FILE NO:

SHEET TITLE:
MISCELLANEOUS DETAILS

SHEET NUMBER: S7 REVISION