REGIONAL DISTRICT OF NANAIMO

REQUEST FOR TENDER No. 23-043

Maffeo Sutton Screen Chamber – Access Improvements

Addendum 1 (9 pages total)
Issued: July 4, 2023

Closing Date & Time: on or before 3:00 PM Pacific Time on July 18, 2023

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Clarifications:

1. Please find enclosed a copy of the Tenderer's Site Meeting Sign-In sheet.
2. Please find enclosed an updated copy of the 'Issued for Tender' **Herold Engineering drawings S01 through S05 Revision 'D'** which supersede the Revision 'C' drawings included in the original tender documents. The updates include details regarding excavation, backfill and the minimum required bearing capacity of the in-situ soil, shown on **drawing S02**.

   For clarity, the RDN will arrange for inspection of the stairwell subgrade to confirm soil bearing capacity and suitability. Any additional measures (e.g. over-excavation and/or bedding) required to make a suitable subgrade would additional to the Contract Price.
3. The fibre-reinforced plastic (FRP) lid on the existing chamber will be required to be removed to facilitate cutting and removal of the stairwell opening to the existing chamber. The FRP lid must be put back in place at the end of each day and a plastic sheet covering placed over the opening in the existing chamber to contain odours outside of working hours.
4. The temporary construction fencing around the work area shall include a privacy screen due to the sensitive cultural nature of the excavation.

5. The existing screen chamber will require a 9.22 permit from WorkSafeBC if entry is required prior to cutting out, or in order to cut out, the concrete opening for the stairwell entry. Once the cut-out is made and access is improved the chamber should no longer be considered a confined space and therefore the work inside the existing chamber should not require a 9.22 permit. That said, Tenderers are responsible to make their own assessment regarding the safety aspects of the Work relating to the existing screen chamber and meet all WorkSafeBC requirements to complete the Work.
6. The existing siphon chamber is not considered a confined space due to the stair access in place. As such, a 9.22 permit from WorkSafeBC is not required. That said, Tenderers are responsible to make their own assessment regarding the safety aspects of the Work relating to the existing siphon chamber and meet all WorkSafeBC requirements to complete the Work.

Questions:

Q1) Will Contractors be required to engage the services of an arborist to determine the appropriate measures for excavation through areas of potential root disturbance (e.g. for the electrical conduit on the pathway and for the stairwell)?

A1) Contractors will not be required to hire an arborist. Where the conduit will be dug, the City's arborist will attend the site before digging starts and can mark the area to avoid digging, which is outside the proposed conduit route.

Q2) Can the roadway and path within the work area be fenced off during construction?

A2) Yes. See attached sketch of the approximate location of the proposed temporary construction fencing.

Q3) Is a lap joint required on the parking lot asphalt restoration?

A3) Yes, a lap joint is required. The existing asphalt is 75mm thick or more.

Q4) Do any of the shop drawings for the project (e.g. rebar, stairs, hatch) need to be sealed by an engineer?

A4) No, there are no contractor-designed elements in the project.

End of Addendum 1

NON–MANDATORY SITE MEETING ATTENDEE LIST

PROJECT TITLE:	23-043 Maffeo Sutton Screen Chamber – Access Improvements
MEETING DATE/TIME	June 28, 2023 | 10AM
MEETING PLACE	Maffeo Sutton Park, Nanaimo, BC

COMPANY NAME
1. Nesma Construction
2. Houle Electric
3. Westcoast Prefab
4. PTW Energy
5. Milner Group
6. TacWest

GENERAL NOTES:

GENERAL

1. DESIGN LOADS

LIVE LOAD: 4.8 KPa PER BC BUILDING CODE 2018.

SNOW LOAD: Ss = 2.1 KPa
Sr = 0.4 KPa

2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTS. REPORT ANY CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
4. NOTIFY ENGINEER 48 HOURS IN ADVANCE FOR INSPECTION OF STRUCTURAL CONNECTIONS BEFORE COVERING UP.
5. CONTRACTOR'S RESPONSIBILITY: THESE DRAWINGS SHOW COMPLETED STRUCTURAL COMPONENTS. THE REQUIRED TEMPORARY BRACING AND SHORING TO PERFORM THE WORK SAFELY IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ENVIRONMENTAL WORK PROCEDURES, TIMING, AND SPECIAL PRECAUTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND LIMITATIONS OF THE FEDERAL DEPARTMENT OF FISHERIES AND OCEANS, AND THE PROVINCIAL MINISTRY OF WATER, LAND AND AIR PROTECTION.
7. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
8. ELEVATIONS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRES.
9. UNDER NO CIRCUMSTANCES ARE DRAWINGS TO BE SCALED.
10. QUALITY ASSURANCE QUALIFICATION OF CONTRACTOR AND SUPERINTENDENT: THE CONTRACTOR SHALL BE FULLY CONVERSANT WITH ALL SAFETY PROCEDURES AND REGULATIONS RELATING TO CONSTRUCTION, AND SHALL EMPLOY STAGING AND OTHER SAFETY PROVISIONS AS SPECIFIED ELSEWHERE AND REQUIRED BY WORKSAFE BC REGULATIONS.

DEMOLITION

1. ALL MATERIAL FROM EXISTING STRUCTURES TO BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.
2. DEMOLITION OF EXISTING STRUCTURES TO BE CARRIED OUT IN ACCORDANCE WITH CSA S350-M1580, CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES.

ENVIRONMENTAL CONSTRUCTION REQUIREMENTS

1. ALL TREES AND ROOTS TO BE PRESERVED WHERE POSSIBLE. ALL DISTURBED AREAS TO BE RESEEDED WITH NATIVE GRASS MIX. ANY SHRUBS OR TREES REMOVED MUST BE REPLACED AND THE AREA IS TO BE COVERED IN STRAW MULCH UPON COMPLETION.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA A23.1 AND A23.2.
2. CONCRETE MIXES SHALL CONFORM TO CAN/CSA A23.1 AND A23.2 AND SHALL HAVE THE FOLLOWING PROPERTIES:

CLASS	56 DAY STRENGTH	MAXIMUM AGGREGATE SIZE	MAXIMUM SLUMP	AIR CONTENT	EXPOSURE
ALL ITEMS	35 MPa	19mm	75mm	4% TO 7%	A-1, S-3

3. REINFORCING STEEL TO CONFORM TO CSA SPECIFICATION G30.18M, GRADE 400, UNLESS NOTED OTHERWISE.
4. LAP OF BARS FOR SPLICES TO BE 40 x BAR DIAMETER, UNLESS NOTED OTHERWISE.
5. PROVIDE A 20mm CHAMFER ON ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE.
6. CONCRETE FINISHES SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1.
7. ALL CONCRETE CURING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1. SPECIAL PRECAUTIONS SHALL BE TAKEN AS NOTED IN CSA A23.1 FOR PLACING AND CURING CONCRETE ABOVE 27° C AND BELOW 5° C.
8. MINIMUM CONCRETE COVER TO REINFORCING SHALL BE 75mm, UNLESS NOTED OTHERWISE.

GROUT

1. GROUT TO BE NON SHRINK, NON METALLIC, 50MPa @ 28 DAYS.

ALUMINUM

1. ALL STAIR, HANDRAIL AND LID MATERIAL TO BE ALUMINUM UNLESS NOTED OTHERWISE. ALUMINUM SHALL BE 6061-T6.
2. STRUCTURES TO BE FABRICATED IN ACCORDANCE WITH CSA-S157-17 (R2022) BY A FABRICATOR CERTIFIED TO CSA W47.2 (R2020).
3. WELDING SHALL BE IN ACCORDANCE WITH CSA W59.2-2018.
4. PROVIDE A MINIMUM 6mm FILLET WELD OR EQUIVALENT FOR CONNECTIONS, UNLESS NOTED OTHERWISE.
5. GRIND SMOOTH ALL SHARP EDGES.
6. FOR CORROSION PROTECTION: WHERE ALUMINUM IS IN CONTACT WITH CONCRETE, A 3mm THICK UHMW GASKET SHALL BE INSTALLED AS A BARRIER BETWEEN THE DISSIMILAR ITEMS.

STRUCTURAL STEEL

1. ALL BEAM, GAS SPRING MOUNTS AND EMBEDDED LEDGERS ARE TO BE STAINLESS STEEL.
2. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH CSA-S16 AND THE REVIEWED SHOP DRAWINGS.
3. THE STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS AS SPECIFIED UNDER 'SUBMITTALS' TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INDICATE ALL DETAILS, FASTENERS, MATERIAL SPECIFICATIONS, FINISHES AND DESIGN LOADS.
4. A COPY OF THE FABRICATOR'S CANADIAN WELDING BUREAU CERTIFICATES SHALL BE INCLUDED WITH THE SHOP DRAWING SUBMISSION.
5. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W59. FABRICATING SHOP TO HAVE A MINIMUM DIVISION 2.1 CERTIFICATION BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1. THE FABRICATOR SHALL SUBMIT PROOF OF CERTIFICATION PRIOR TO START OF WORK.
6. ALL WELDING ELECTRODES SHALL CONFORM TO CSA W48.
7. JOINTS THAT ARE TO BE WELDED SHALL BE KEPT FREE OF ALL FOREIGN MATTER INCLUDING PAINT, PRIMER OR OTHER COATINGS WHICH COULD BE DETRIMENTAL TO ACHIEVING A SOUND WELDMENT.
8. CONNECTIONS DETAILED ON THESE STRUCTURAL DRAWINGS SHALL BE FABRICATED AND ERECTED AS SHOWN. ALTERNATIVES MAY BE CONSIDERED AT THE SOLE DISCRETION OF THE STRUCTURAL ENGINEER OF RECORD BUT MUST BE PRE-APPROVED BY SAME. WHERE AN ALTERNATIVE IS APPROVED IT SHALL BE AT NO ADDITIONAL COST TO THE OWNER AND SHALL NOT NEGATIVELY IMPACT THE CONSTRUCTION SCHEDULE.
9. FABRICATOR SHALL INCREASE WELD SIZES TO ACCOMMODATE SLOT WIDTHS SO THAT LEG SIZE AS SPECIFIED IS FULLY ON STEEL CONNECTION ELEMENT. FINAL WELD SIZE TO BE SHOWN ON THE SHOP DRAWINGS.
10. BOLTS AND ANCHOR RODS SHALL BE LONG ENOUGH THAT THE END OF THE BOLT OR ROD IS OUTSIDE THE FACE OF THE NUT.
11. DO NOT FIELD BURN BASE PLATE HOLES OR CONNECTION BOLT HOLES UNLESS APPROVED IN WRITING BY THE ENGINEER. NO FIELD CUTTING OR ALTERATION OF STRUCTURAL MEMBERS IS TO OCCUR WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER
12. IF ANCHOR BOLTS ARE MISPLACED OR BOLT HOLES MISALIGNED, INFORM THE ENGINEER.
13. PROVIDE STRUCTURAL STEEL WITH THE FOLLOWING GRADES:

- CHANNELS AND ANGLES — 304 STAINLESS STEEL TO ASTM A276
- MISCELLANEOUS STEEL PLATES — 304 STAINLESS STEEL TO ASTM A276
- VENT PIPE — ASTM A53 GRADE A

14. BOLT SIZING SHALL BE AS NOTED ON DRAWINGS AND DETAILS WITH THE FOLLOWING GRADES:

- PROVIDE BOLTS TO ASTM F593-C, STAINLESS STEEL 304. USE ANTI-SEIZE COMPOUND INTENDED FOR STAINLESS STEEL APPLICATIONS ON BOLT THREADS PRIOR TO INSTALLATION.

15. VENT PIPE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH CAN/CSA STANDARD G164, UNLESS NOTED OTHERWISE.

ADHESIVE ANCHORS

1. ALL ANCHORS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. UNLESS NOTED OTHERWISE ADHESIVE ANCHORS SHALL BE HILTI 'HAS' ROD. REFER TO DRAWINGS FOR ANCHOR LOCATIONS, SIZES, CENTRES AND EMBEDMENT LENGTH. USE HILTI HY200 MAX OR HILTI HIT RE500 ADHESIVE AS NOTED BELOW.

USE HILTI HIT HY-200 MAX WHEN;
A QUICK CURE IS REQUIRED,
CONDITIONS ARE DRY,
HOLES ARE HAMMER DRILLED,
HOLES ARE NOT OVER-SIZED,
BASE MATERIAL TEMPERATURE IS ABOVE 5° CELSIUS.

USE HILTI HIT RE-500 WHEN;
EXTENDED WORKING TIME IS REQUIRED AND CURE TIME IS NOT CRITICAL,
HOLES ARE DRILLED USING DIAMOND CORE, PNEUMATIC OR HAMMER DRILLS,
DEEP EMBEDMENT IS SPECIFIED,
THE APPLICATION IS UNDERWATER, OR HOLES ARE OVERSIZED.

HOLES FOR ADHESIVE ANCHORS SHALL BE CLEANED OUT WITH HIGH PRESSURE AIR AND THEN A BRUSH PRIOR TO ANCHOR INSTALLATION.

INSTALLERS OF HILTI PRODUCTS SHALL HAVE RECEIVED TRAINING BY HILTI (CANADA) CORP. IN THE USE OF THE SPECIFIED PRODUCTS. THE GENERAL CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH A LETTER STATING THAT THIS TRAINING HAS BEEN COMPLETED.

WATERSTOPS

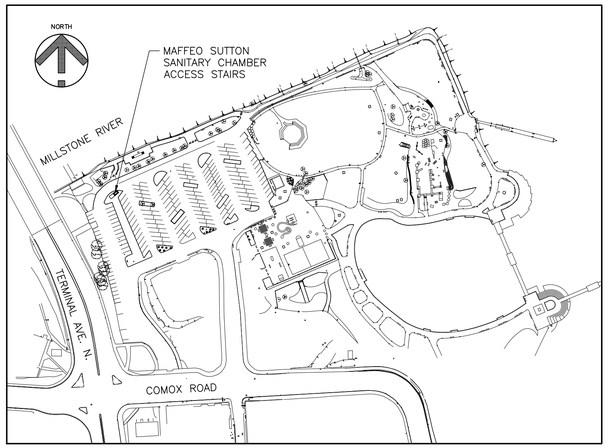
1. ALL WATERSTOPS ARE TO BE SIKA HYDROTITE TYPE CJ-0725.
2. MINIMUM CLEAR COVER TO WATERSTOPS SHALL BE 75mm.

ABBREVIATIONS

CL.	–	CLEAR
℄	–	CENTRELINE
CP.	–	COMPLETE PENETRATION
C/W	–	COMPLETE WITH
DWG.	–	DRAWING
EL.	–	ELEVATION
HEL	–	HEROLD ENGINEERING LIMITED
I.D.	–	INSIDE DIAMETER
LLH	–	LONG LEG HORIZONTAL
LLV	–	LONG LEG VERTICAL
MAX.	–	MAXIMUM
MIN.	–	MINIMUM
NO.	–	NUMBER
N.T.S.	–	NOT TO SCALE
OPP.	–	OPPOSITE
PL	–	PLATE
R	–	RADIUS
RDN	–	REGIONAL DISTRICT OF NANAIMO
SIM.	–	SIMILAR
S.S.	–	STAINLESS STEEL
STD.	–	STANDARD
T.O.	–	TOP OF
TYP.	–	TYPICAL
U/S	–	UNDERSIDE
U.N.O.	–	UNLESS NOTED OTHERWISE
WP	–	WORK POINT

STRUCTURAL DRAWING LIST

RDN DRAWING NO.	HEL DRAWING NO.	DESCRIPTION
–	0837-092-S01	GENERAL NOTES
–	0837-092-S02	GENERAL ARRANGEMENT
–	0837-092-S03	CONCRETE STAIRWELL
–	0837-092-S04	STAIRCASE, BEAM AND GAS SPRING MOUNTS
–	0837-092-S05	LID AND HANDRAIL



KEY PLAN – MAFFEO SUTTON PARK
N.T.S.

NOT FOR CONSTRUCTION

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

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2023-06-26

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C	22/12/12	CLIENT REVIEW	JJMC	PPK	MGCS
B	22/07/26	COORDINATION	JJMC	PPK	MGCS
A	22/07/05	CLIENT REVIEW	JJMC	PPK	MGCS

REGIONAL DISTRICT OF NANAIMO

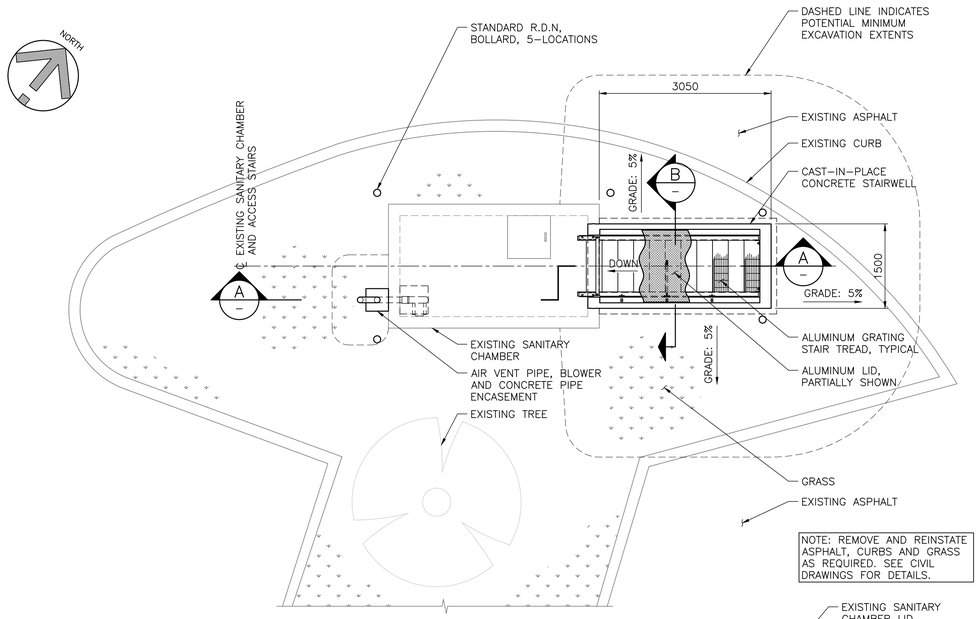
CONSULTANT
HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com
HEROLD PROJECT #: 0837-092

TITLE: **GENERAL NOTES**

PROJECT: **MAFFEO SUTTON SANITARY CHAMBER ACCESS STAIRS**

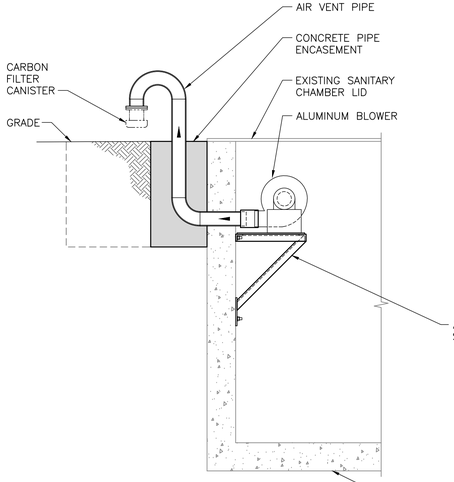
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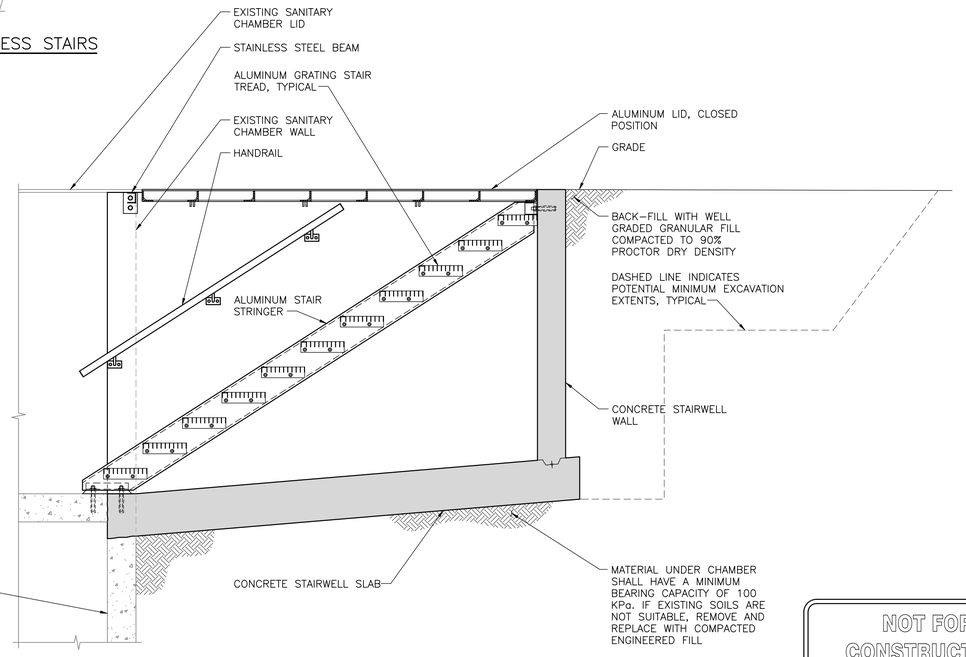


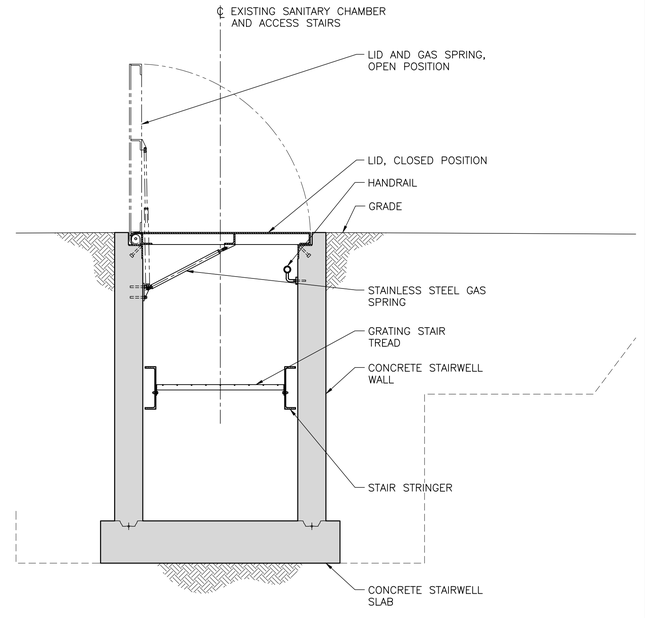
NOTE: REMOVE AND REINSTATE ASPHALT, CURBS AND GRASS AS REQUIRED. SEE CIVIL DRAWINGS FOR DETAILS.

PLAN – ACCESS STAIRS
1:50



A SECTION
1:20





B SECTION
1:20

NOT FOR CONSTRUCTION

NOTES:

1. FOR GENERAL NOTES, SEE DWG. S01.
2. CONCRETE REINFORCEMENT NOT SHOWN.

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

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2023-06-26

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D	23/06/26	TENDER	JJMC	MGCS	CDW
C	22/12/12	CLIENT REVIEW	JJMC	PPK	MGCS
B	22/07/26	COORDINATION	JJMC	PPK	MGCS
A	22/07/05	CLIENT REVIEW	JJMC	PPK	MGCS

REGIONAL DISTRICT OF NANAIMO

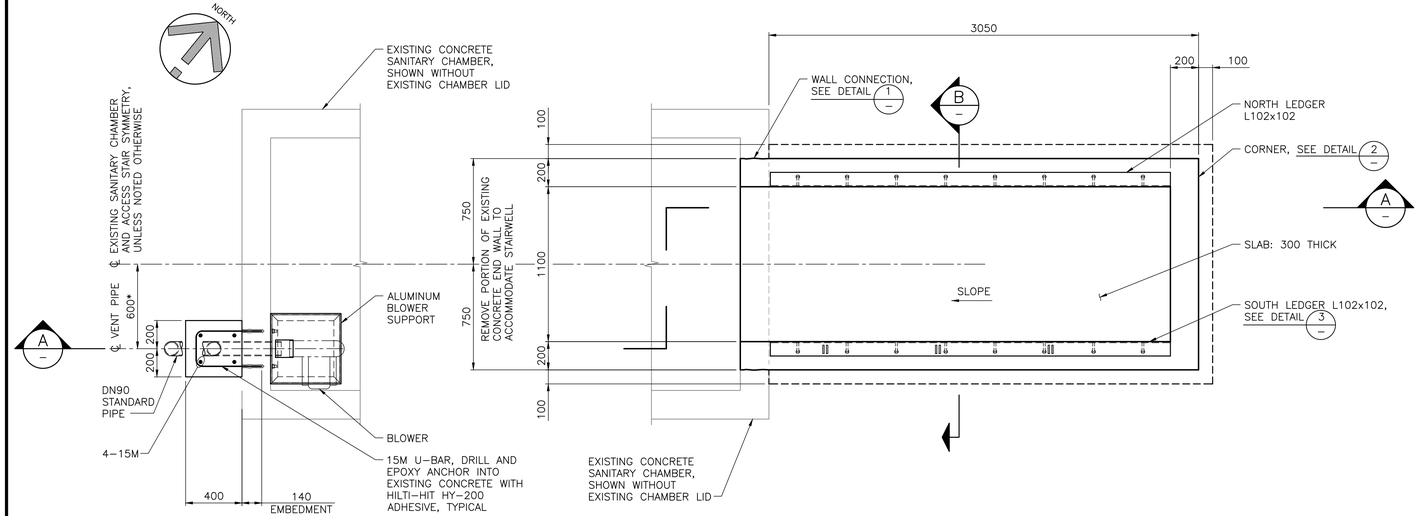
CONSULTANT HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com
HEROLD PROJECT #: 0837-092

TITLE: **GENERAL ARRANGEMENT**

PROJECT: **MAFFEO SUTTON SANITARY CHAMBER ACCESS STAIRS**

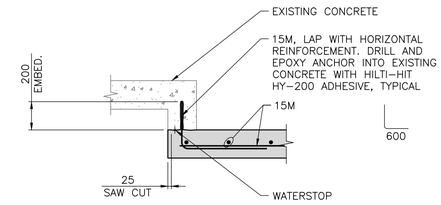
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SCALE:	AS NOTED	APVD:	CDW	DATE: 22/04/01

DWG NO: **S02** REV: **D**

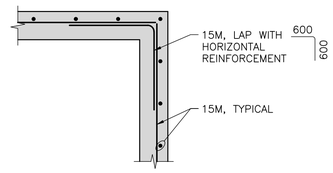


PLAN
1:20

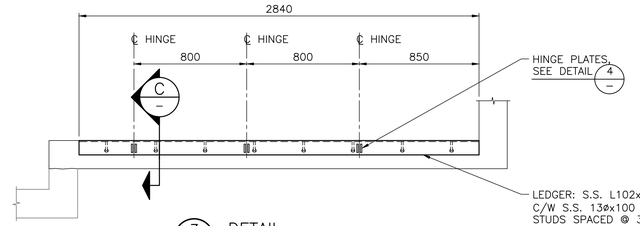
NOTE: CONCRETE STAIRWELL IS SYMMETRICAL, UNLESS NOTED OTHERWISE.



1 DETAIL
1:20

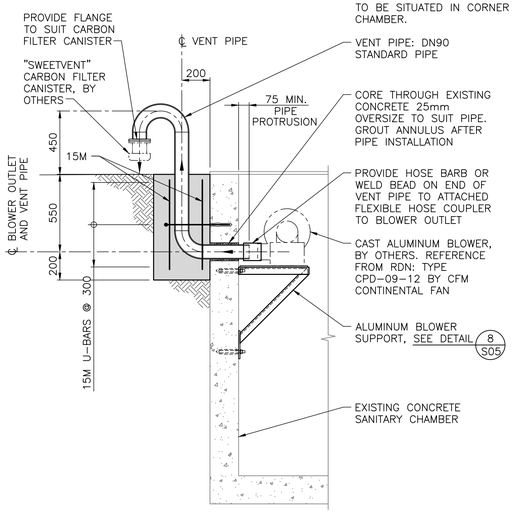


2 DETAIL
1:20

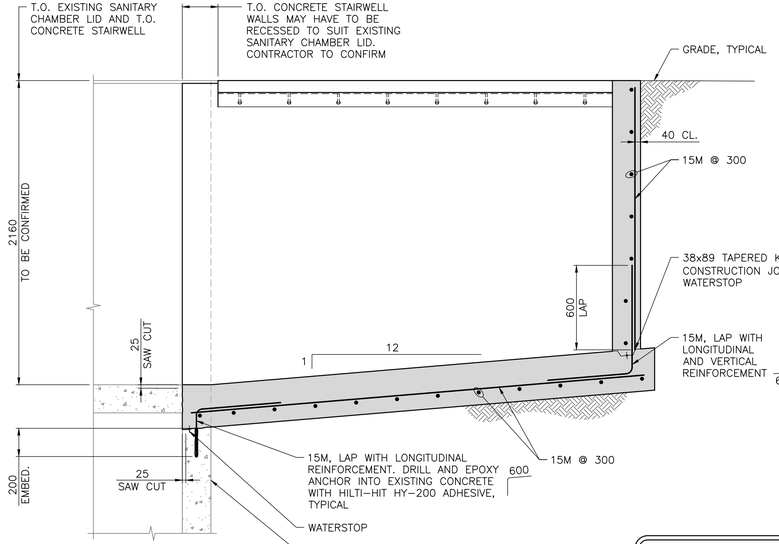


3 DETAIL
1:20

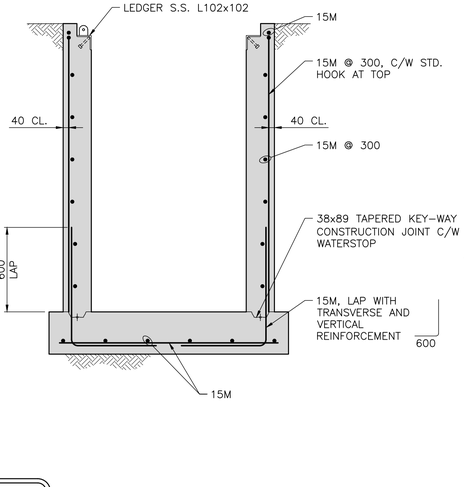
NOTE: SOUTH LEDGER SHOWN. NORTH LEDGER IS OPPOSITE HAND. HINGE PLATES ARE ONLY ON SOUTH LEDGER.

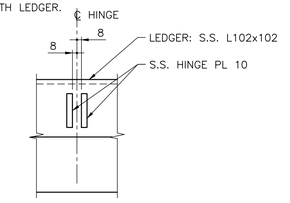


A SECTION
1:20

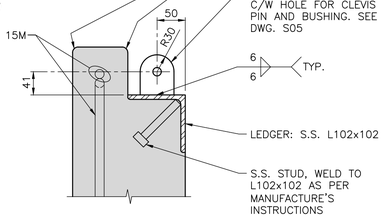


B SECTION
1:20





4 DETAIL
1:5



C SECTION
1:5

NOTES:

1. FOR GENERAL NOTES, SEE DWG. S01.

NOT FOR CONSTRUCTION

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

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PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M.C.G. SEYD #26013
2023-06-26

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REGIONAL DISTRICT OF NANAIMO

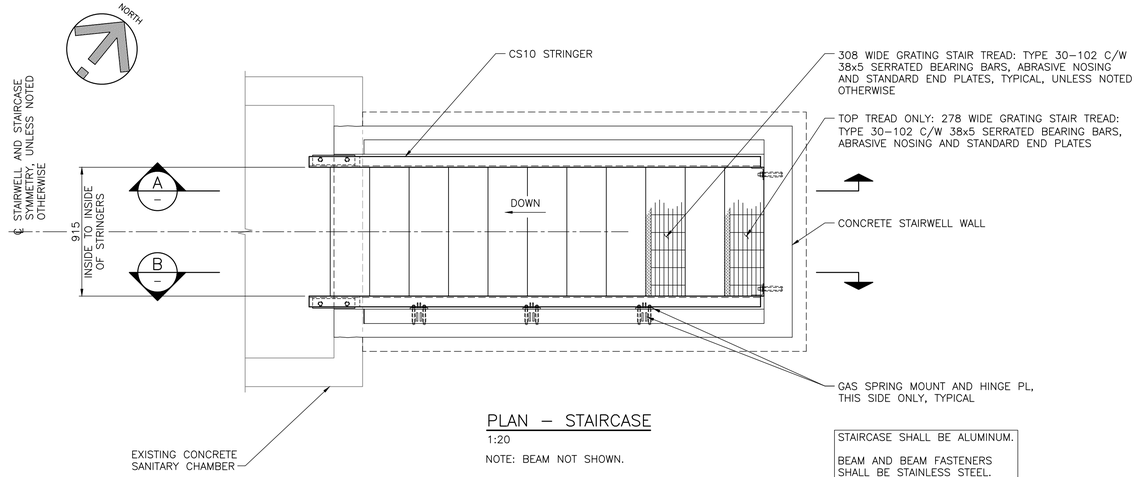
CONSULTANT
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3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250–751–8558 Fax: 250–751–8559
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HEROLD PROJECT #: 0837–092

TITLE: **CONCRETE STAIRWELL**

PROJECT: **MAFFEO SUTTON SANITARY CHAMBER ACCESS STAIRS**

PROJECT NO:	0837-092	DSGN:	JJMC	DATE: 22/04/01
RDN PROJECT NO:	79-56684			
DRAWING SIZE:	ANSI "D"	CHKD:	MGCS	DATE: 22/04/01
SCALE:	AS NOTED	APVD:	CDW	DATE: 22/04/01

DWG NO: **S03** REV: **D**



PLAN – STAIRCASE

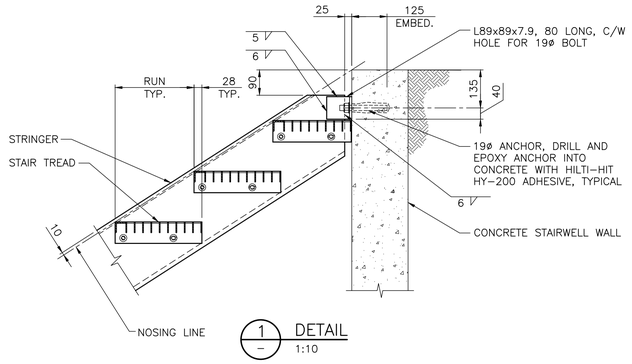
1:20

NOTE: BEAM NOT SHOWN.

STAIRCASE SHALL BE ALUMINUM.

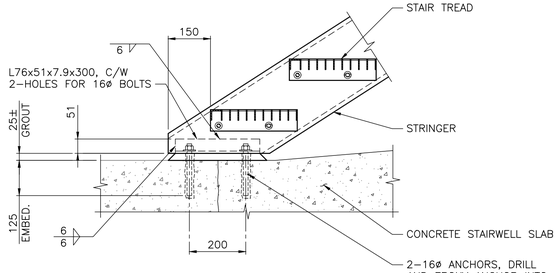
BEAM AND BEAM FASTENERS SHALL BE STAINLESS STEEL.

GAS SPRING MOUNTS SHALL BE STAINLESS STEEL.



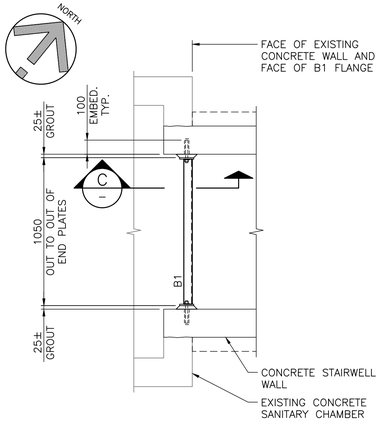
1 DETAIL

1:10



2 DETAIL

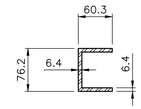
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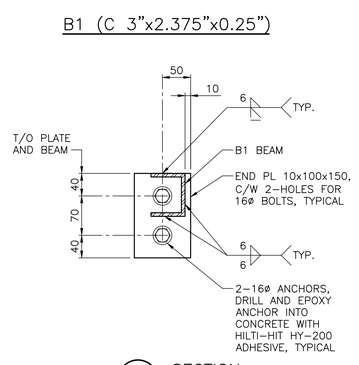
PLAN – BEAM

1:20

NOTE: STAIRCASE NOT SHOWN.

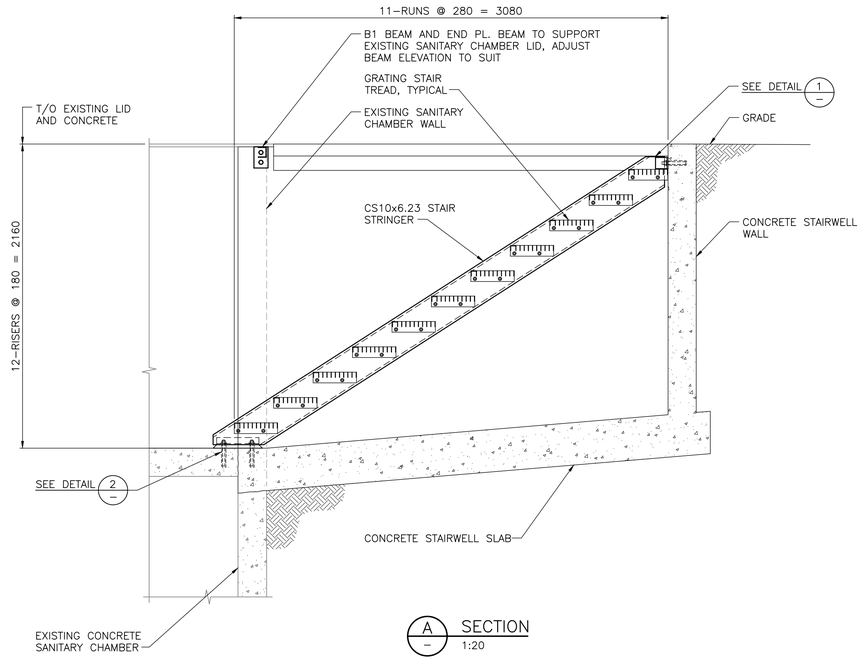


B1 (C 3"x2.375"x0.25")



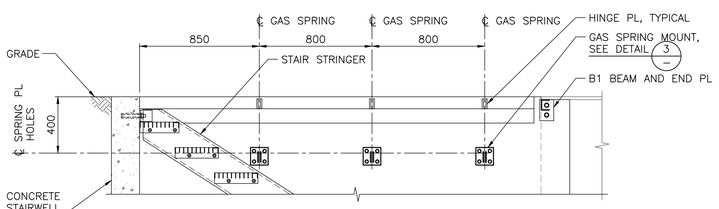
C SECTION

1:5



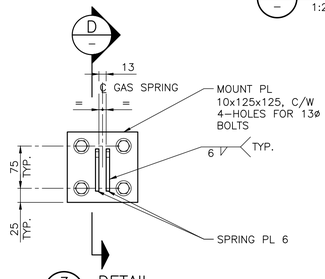
A SECTION

1:20



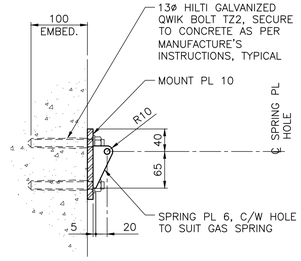
B SECTION

1:20



3 DETAIL

1:5



D SECTION

1:5

NOT FOR CONSTRUCTION

NOTES:

1. FOR GENERAL NOTES, SEE DWG. S01.

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

EGBC PERMIT TO PRACTICE #1000201

PROFESSIONAL ENGINEER — PROVINCE OF — M.C.G. SEYD — #26013 — REGISTERED

2023-06-26

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REV	YY/MM/DD	DESCRIPTION	DRWN	CHKD	APVD
D	23/06/26	TENDER	JJMC	MGCS	CDW
C	22/12/12	CLIENT REVIEW	JJMC	PPK	MGCS
B	22/07/26	COORDINATION	JJMC	PPK	MGCS
A	22/07/05	CLIENT REVIEW	JJMC	PPK	MGCS

REGIONAL DISTRICT OF NANAIMO

CONSULTANT HEROLD ENGINEERING

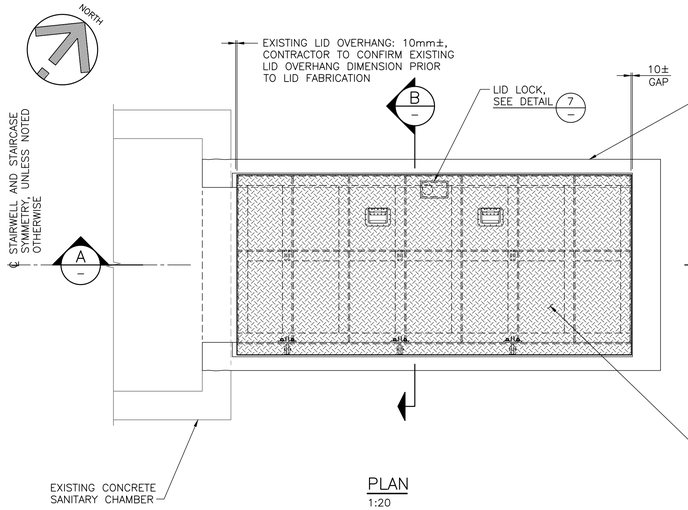
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250–751–8558 Fax: 250–751–8559
Email: mail@heroldengineering.com
HEROLD PROJECT #: 0837–092

TITLE: **STAIRCASE, BEAM AND GAS SPRING MOUNTS**

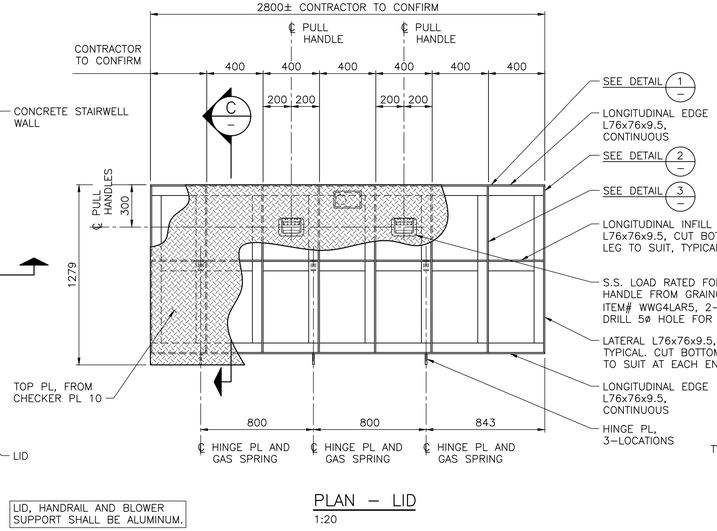
PROJECT: **MAFFEO SUTTON SANITARY CHAMBER ACCESS STAIRS**

PROJECT NO:	0837-092	DSGN:	JJMC	DATE:	22/04/01
RDN PROJECT NO:	79-56684				
DRAWING SIZE:	ANSI "D"	CHKD:	MGCS	DATE:	22/04/01
SCALE:	AS NOTED	APVD:	CDW	DATE:	22/04/01

DWG NO: **S04** REV: **D**

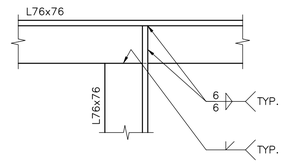


PLAN
1:20

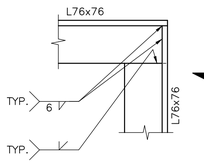


PLAN – LID
1:20

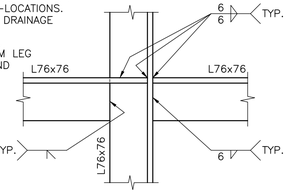
LID, HANDRAIL AND BLOWER SUPPORT SHALL BE ALUMINUM.



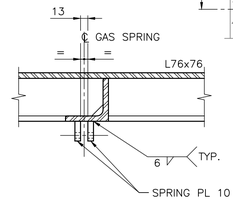
1 DETAIL
1:5



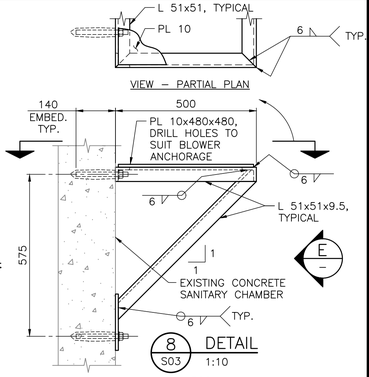
2 DETAIL
1:5



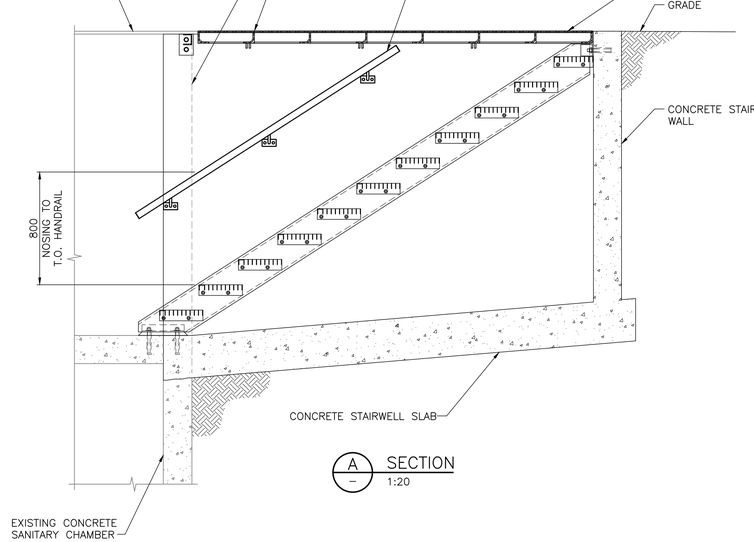
3 DETAIL
1:5



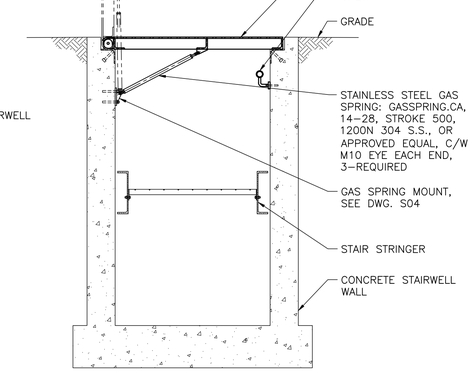
4 DETAIL
1:5
NOTE: 3–LOCATIONS.



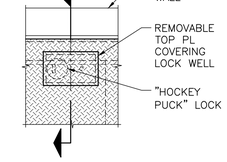
8 DETAIL
S03 1:10



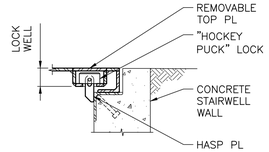
A SECTION
1:20



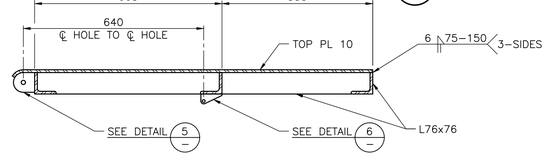
B SECTION
1:20



7 DETAIL
1:10

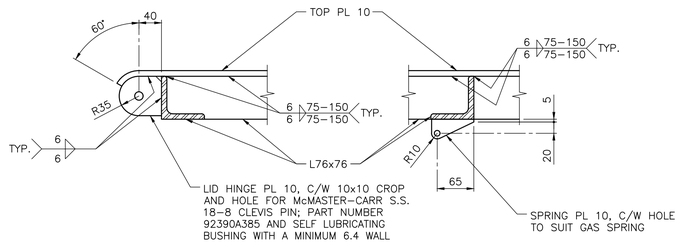


D SECTION
1:10



E VIEW
1:10

C SECTION
1:10



5 DETAIL
1:5

6 DETAIL
1:5

NOT FOR CONSTRUCTION

NOTES:

1. FOR GENERAL NOTES, SEE DWG. S01.

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

EGBC PERMIT TO PRACTICE #1000201

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M.C.G. SEYD #26013

2023-06-26

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REV	YY/MM/DD	DESCRIPTION	DRWN	CHKD	APVD
D	23/06/26	TENDER	JJMC	MGCS	CDW
C	22/12/12	CLIENT REVIEW	JJMC	PPK	MGCS
B	22/07/26	COORDINATION	JJMC	PPK	MGCS
A	22/07/05	CLIENT REVIEW	JJMC	PPK	MGCS

REGIONAL DISTRICT OF NANAIMO

CONSULTANT
HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250–751–8558 Fax: 250–751–8559
Email: mail@heroldengineering.com
HEROLD PROJECT #: 0837–092

TITLE: **LID AND HANDRAIL**

PROJECT: **MAFFEO SUTTON SANITARY CHAMBER ACCESS STAIRS**

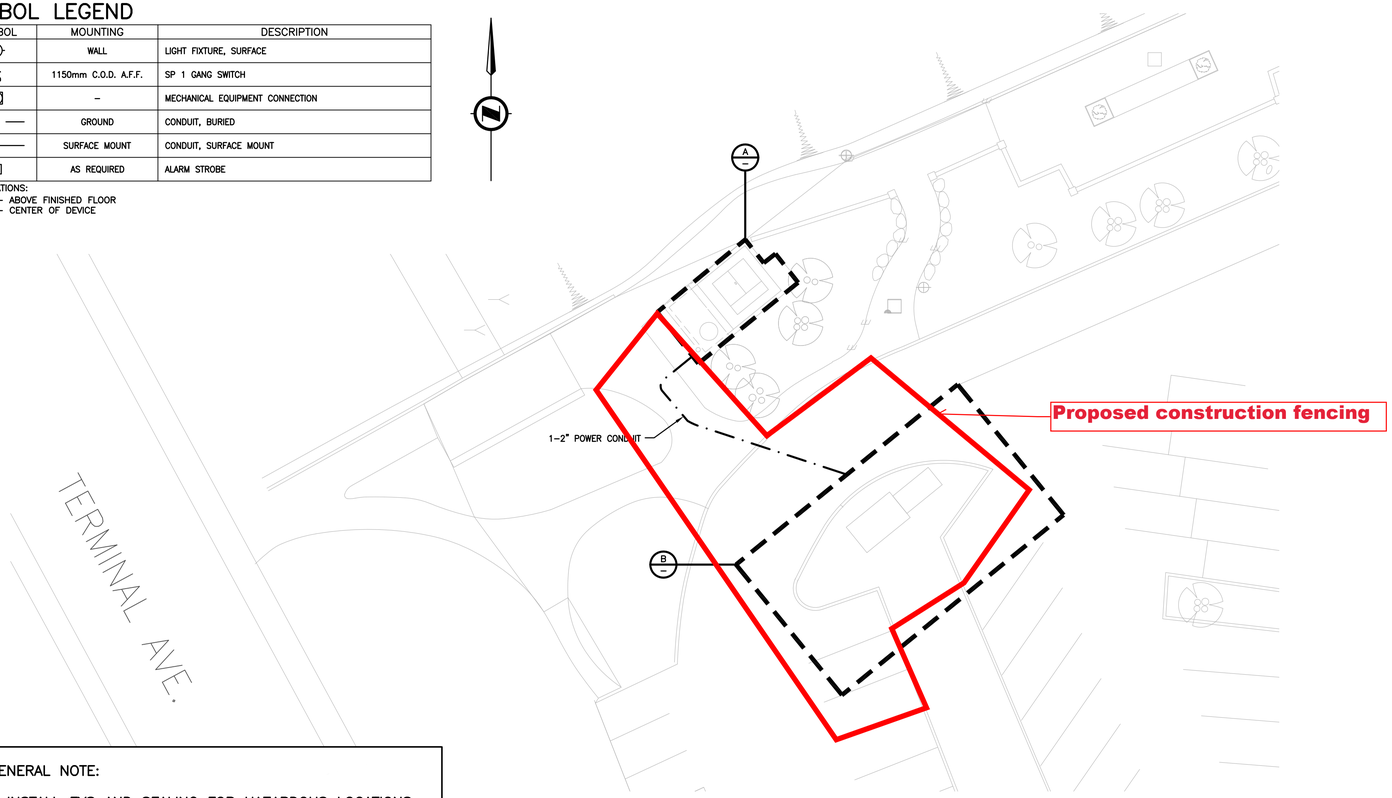
PROJECT NO:	0837-092	DSGN: JJMC	DATE:	22/04/01
RDN PROJECT NO:	79-56684			
DRAWING SIZE:	ANSI "D"	CHKD: MGCS	DATE:	22/04/01
SCALE:	AS NOTED	APVD: CDW	DATE:	22/04/01

DWG NO: **S05** REV: **D**

SYMBOL LEGEND

SYMBOL	MOUNTING	DESCRIPTION
	WALL	LIGHT FIXTURE, SURFACE
$	1150mm C.O.D. A.F.F.	SP 1 GANG SWITCH
M	–	MECHANICAL EQUIPMENT CONNECTION
—— · ——	GROUND	CONDUIT, BURIED
————	SURFACE MOUNT	CONDUIT, SURFACE MOUNT
S	AS REQUIRED	ALARM STROBE

ABBREVIATIONS:
(A.F.F.) – ABOVE FINISHED FLOOR
(C.O.D.) – CENTER OF DEVICE



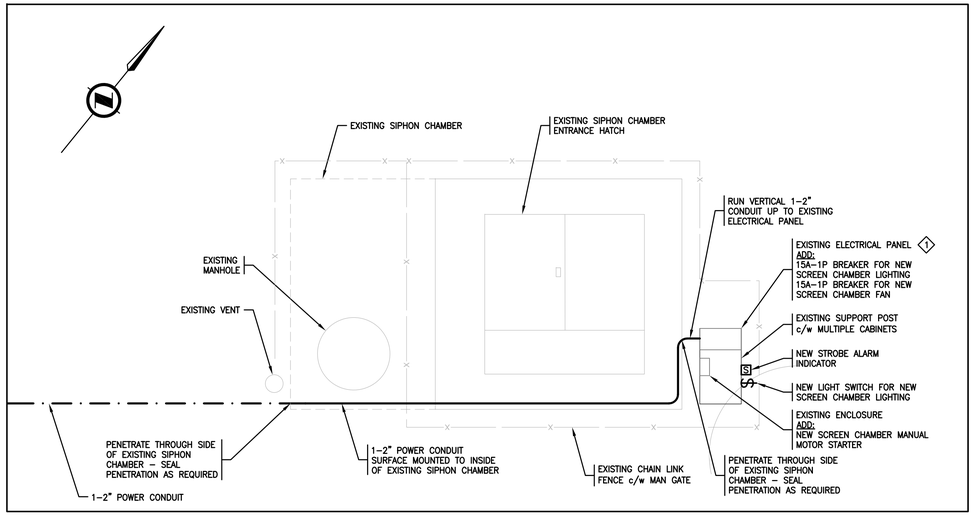
SITE PLAN
SCALE: 1:200



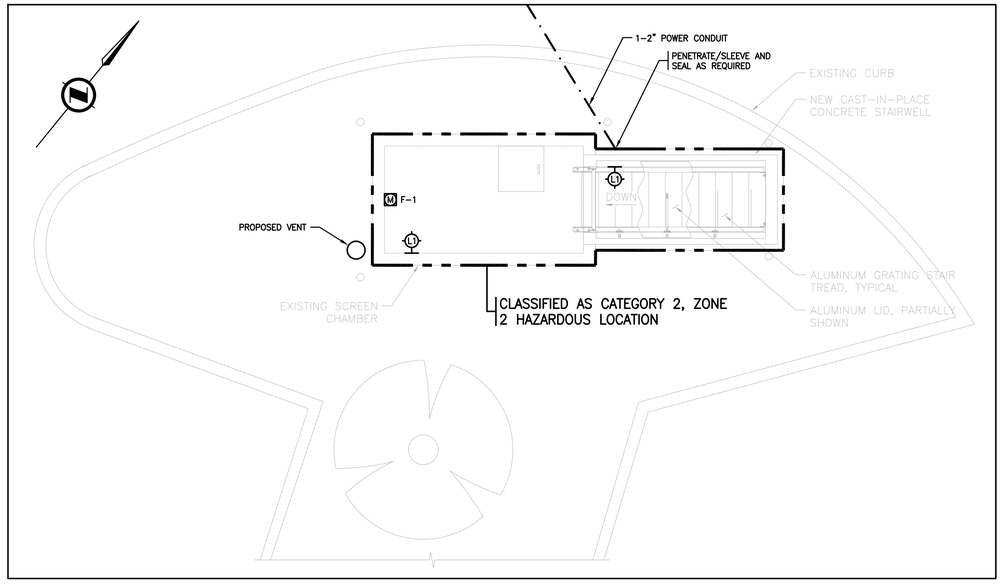
EXISTING SIPHON CHAMBER

GENERAL NOTE:

INSTALL EYS AND SEALING FOR HAZARDOUS LOCATIONS AS PER CANADIAN ELECTRICAL CODE. GROUT AROUND CONDUIT TO SEAL PENETRATIONS,



A EXISTING SIPHON CHAMBER ENLARGEMENT (SEE PHOTO)
SCALE: N.T.S.



B AREA ENLARGEMENT
SCALE: 1:50

REFERENCE DRAWINGS

DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

KEY NOTES:

1 EXISTING ELECTRICAL PANEL IS SQUARE D.

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REV	YY/MM/DD	DESCRIPTION	DRWN	CHKD	APVD
1	22/12/07	ISSUED FOR TENDER	CD	DG	PF

REGIONAL DISTRICT OF NANAIMO

CONSULTANT:
KB ENGINEERING LTD
ELECTRICAL CONSULTING ENGINEERS
#4 1850 NORTHFIELD ROAD TEL 250-756-4444
NANAIMO, BC, V9S 3B3 RBENGINEERING.CA

PROJECT NO. 22–4077
EGBC PERMIT #1001907

THIS DRAWING IS SOLELY INTENDED TO BE USED FOR THE PURPOSE OF THE DRAWING REVISION TITLE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE

PROJECT NO:	-	DRWN: -	DATE: 22/08/29
RDN PROJ NO:	-		
DRAWING SIZE:	ANSI "D"	CHKD: -	DATE: -
SCALE:	AS NOTED	APVD: -	DATE: -

PROJECT:

MAFFEO SUTTON SCREEN CHAMBER ACCESS IMPROVEMENTS

TITLE:

ELECTRICAL LAYOUT

DWG NO: **GNINT 167**

REV: **1**