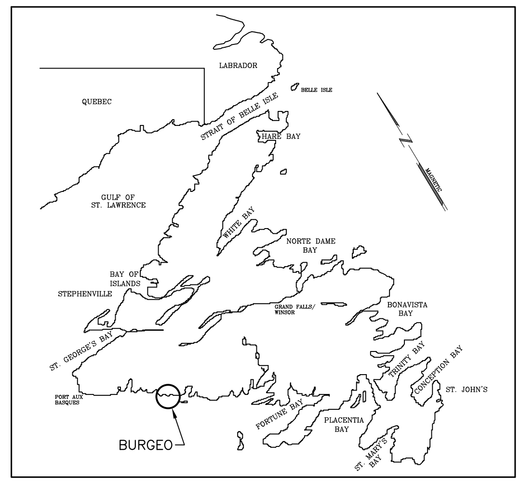
FISHERIES AND OCEANS

Canada

EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION

BURGEO, NL



GENERAL LOCATION

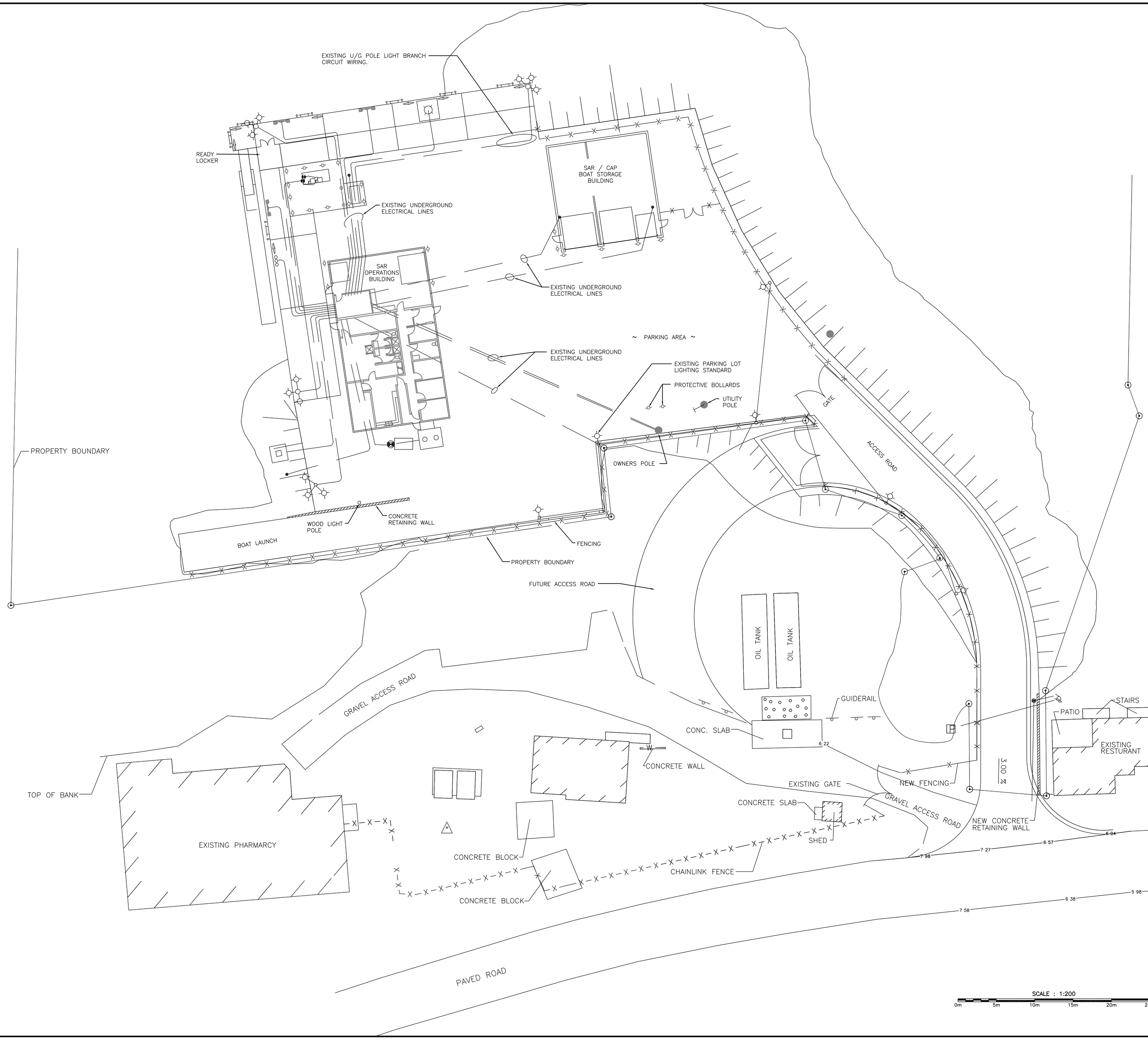
ISSUED FOR TENDER

PROJECT #: F6879-181032

DATE: MAY 23, 2018

CLIENT/OWNER:
DEPARTMENT OF FISHERIES & OCEANS,
REAL PROPERTY, SAFETY & SECURITY

PRIME CONSULTANT:
AFN ENGINEERING INC. IN ASSOCIATION WITH MADERRA ENGINEERING INC.



Plot Scale: 1:1

PWGSC B1

Fisheries and Oceans Canada / Pêches et Océans Canada

STAMP

REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
SIGNATURE
23/05/18
DATE
NEWFOUNDLAND & LABRADOR

PERMIT

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APN ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by APEGNL F0292
which is valid for the year 2018.

0	ISSUED FOR TENDER	23/05/18
A	ISSUED FOR REVIEW	09/05/18
revisions		date (DD/MM/YY)

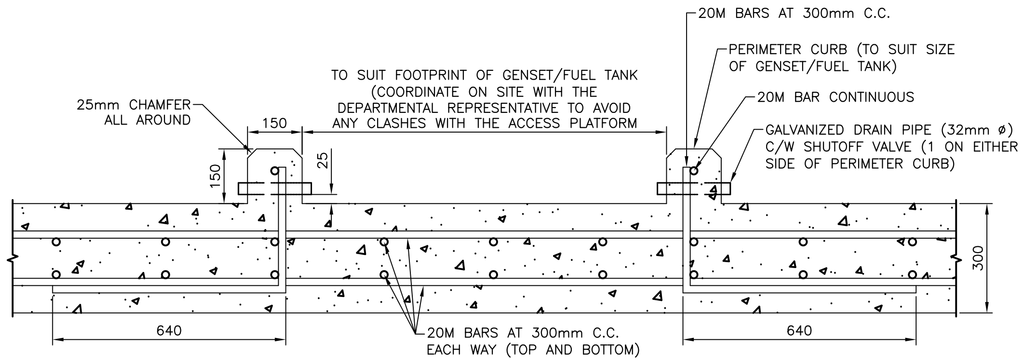
project / projet

EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION BURGEO, NL

drawing / dessin

EXISTING SITE PLAN

designed N.H. concu
date MAY 2018
drawn P.H. dessine
date MAY 2018
approved N.H. approuve
MAY 2018
Tender Soumission
DFO Project Manager
project number / no. du projet
F6879-181032
drawing no. / no. du dessin
11P1201F016C01



CONTAINMENT CURB 1 2 2

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

NOTE:

1. FOR ALL DETAILS AND LAYOUTS RELATED TO THE MAIN PAD AND ACCESS PLATFORM, REFER TO STRUCTURAL DRAWINGS.

Fisheries and Oceans Canada / Pêches et Océans Canada

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project / projet

EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION
BURGEO, NL

drawing / dessin

CONTAINMENT CURB

designed N.H. / concu
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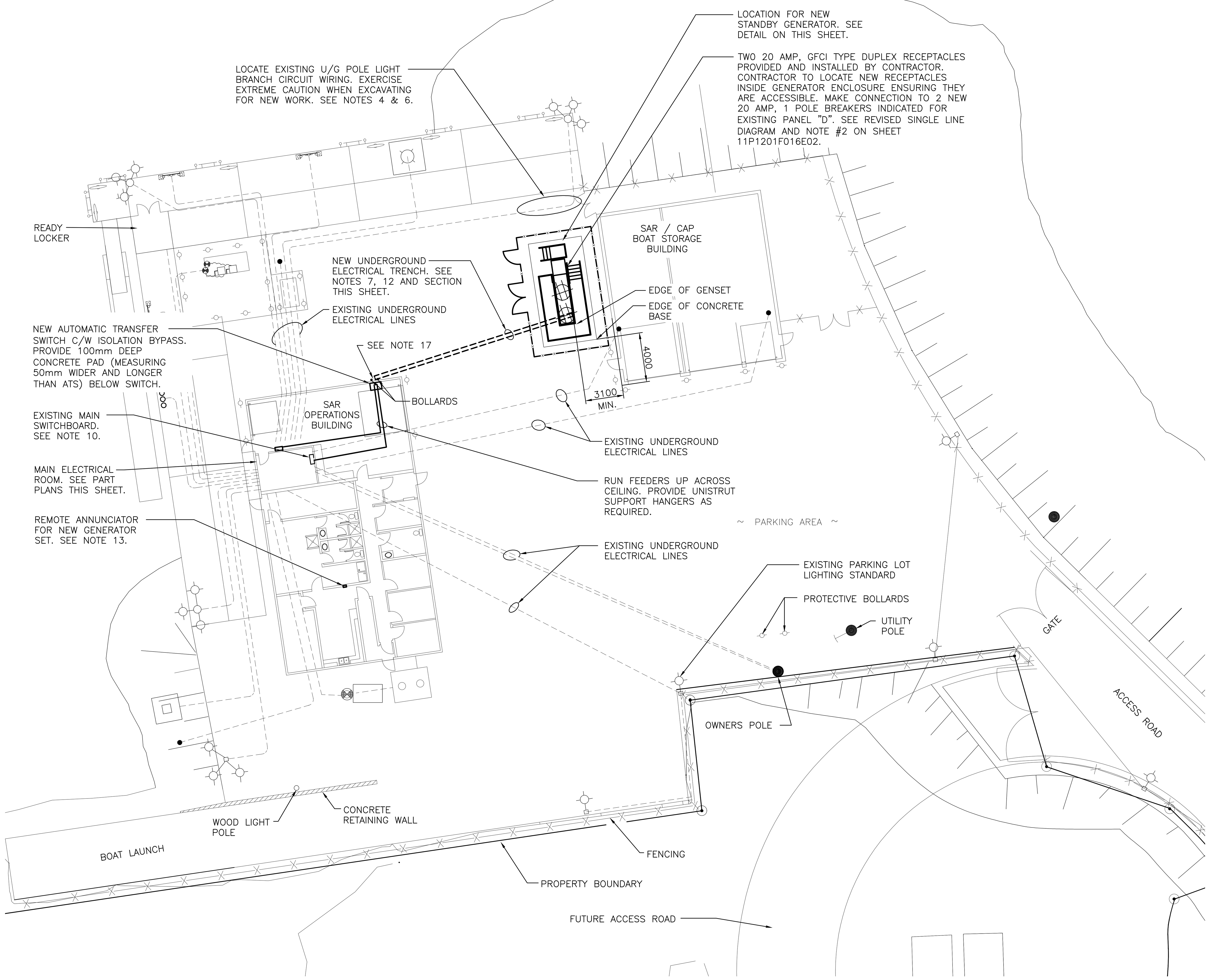
11P1201F016C02

Plot Scale: 1:1

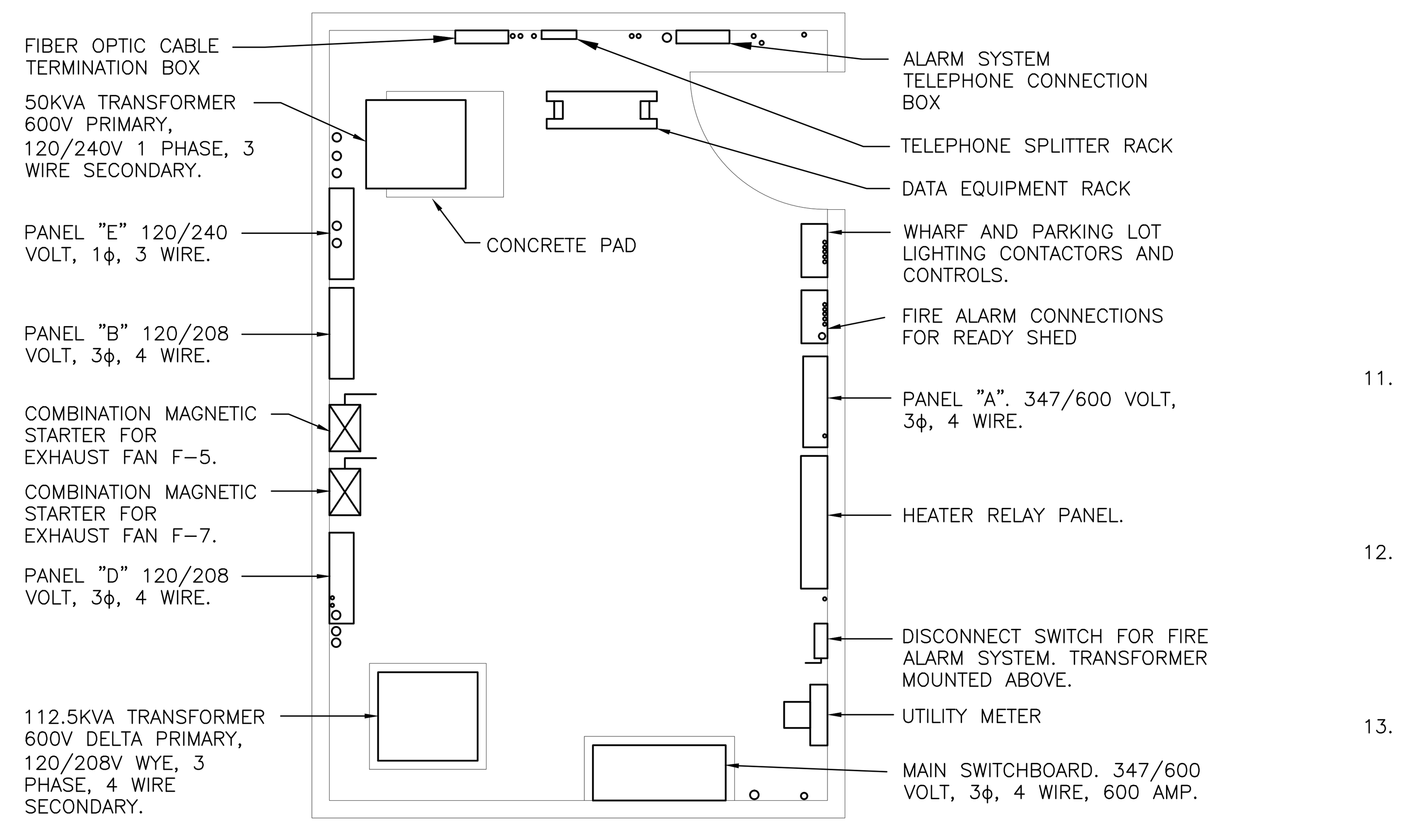
PWGSC B1



SITE PLAN

SCALE : 1:200

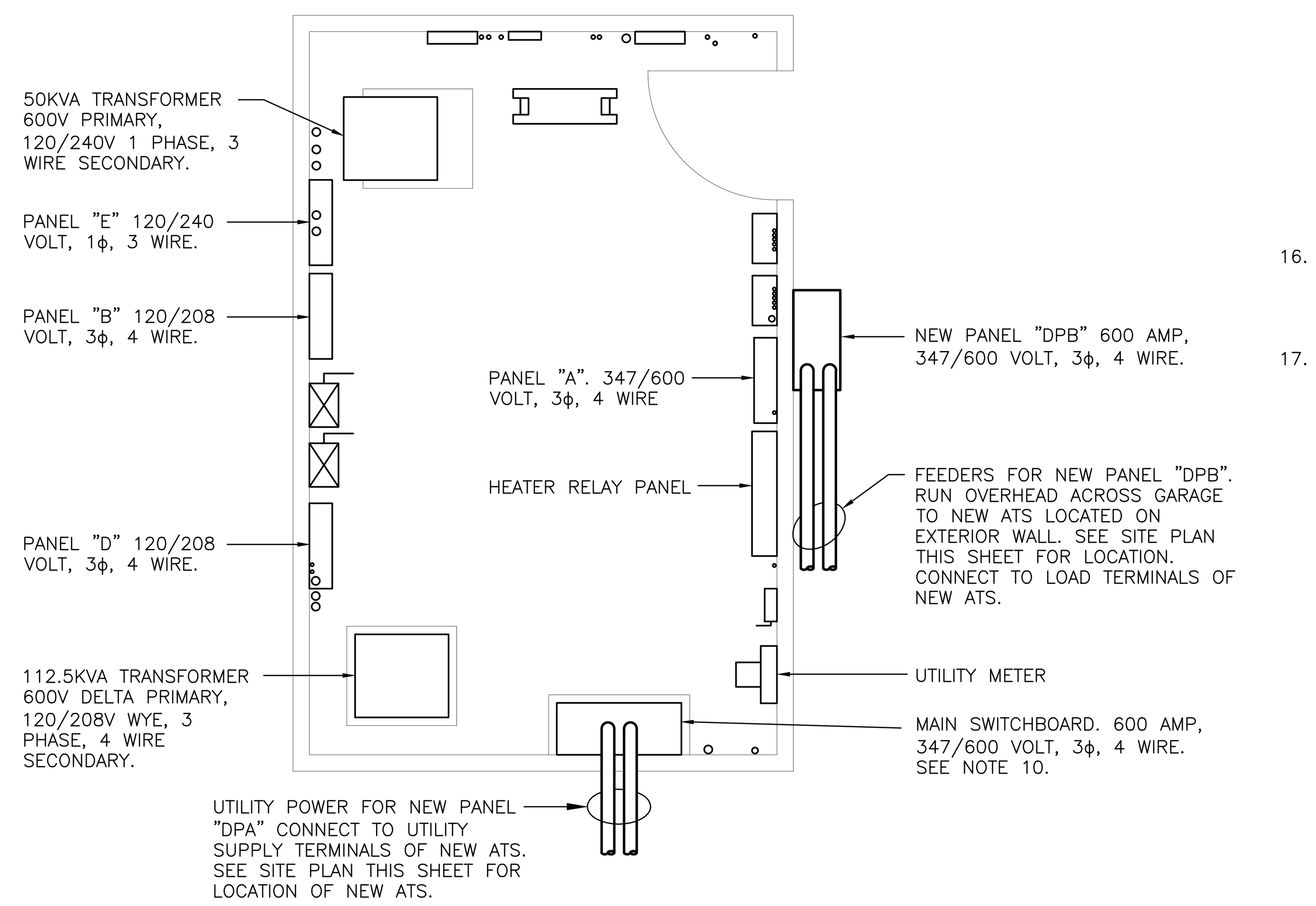
0mm 5.0m 10.0m 15.0m 20.0m 25.0m



PART PLAN – EXISTING EQUIPMENT LAYOUT – MAIN ELECTRICAL ROOM

SCALE = 1 : 30

0m 0.5m 1.0m 2.0m 3.0m



PART PLAN – PROPOSED NEW EQUIPMENT LAYOUT – MAIN ELECTRICAL ROOM

SCALE = 1 : 30

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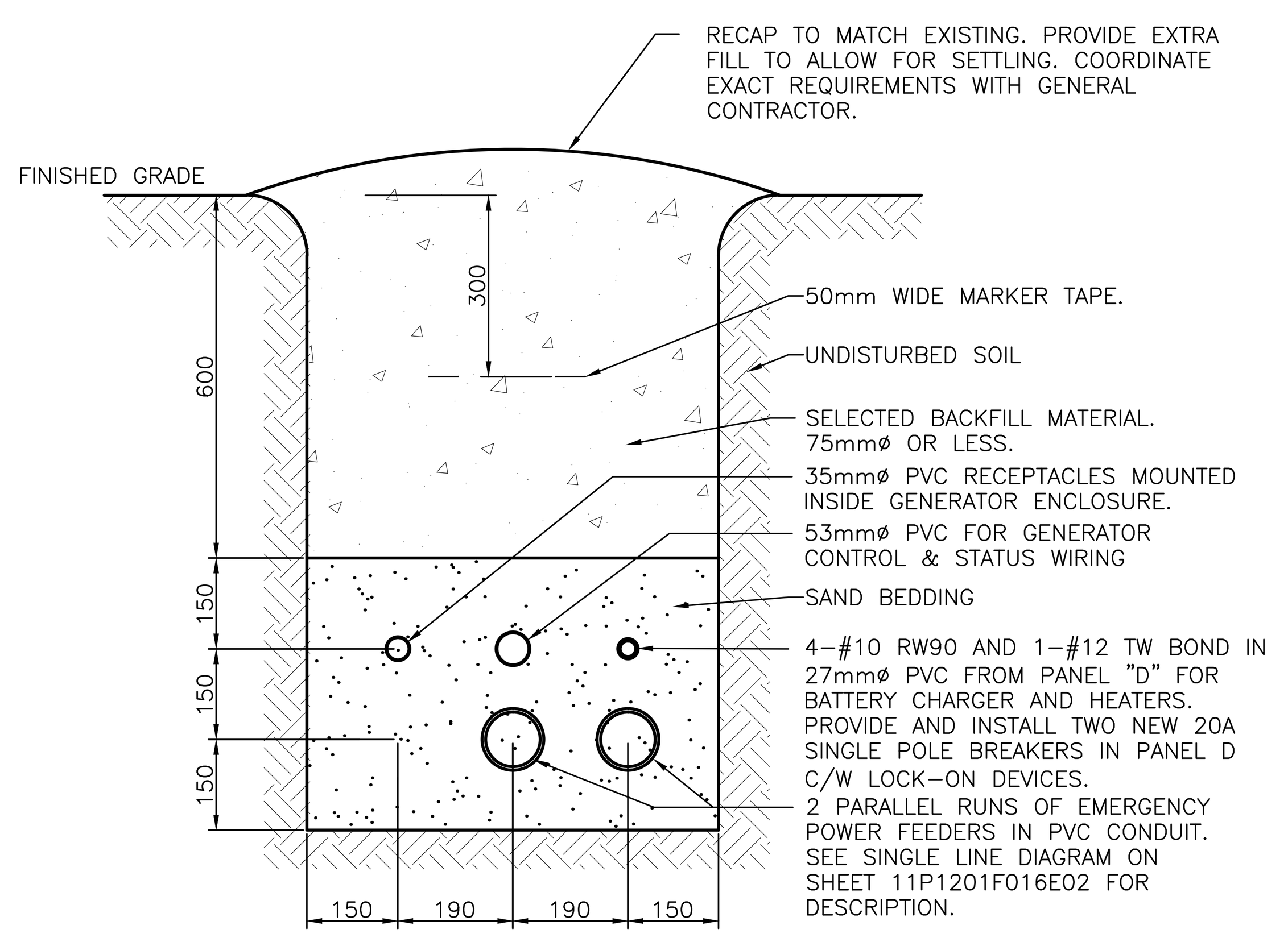

EMERGENCY POWER ELECTRICAL SERVICE TRENCH SECTION

SCALE : 1:10

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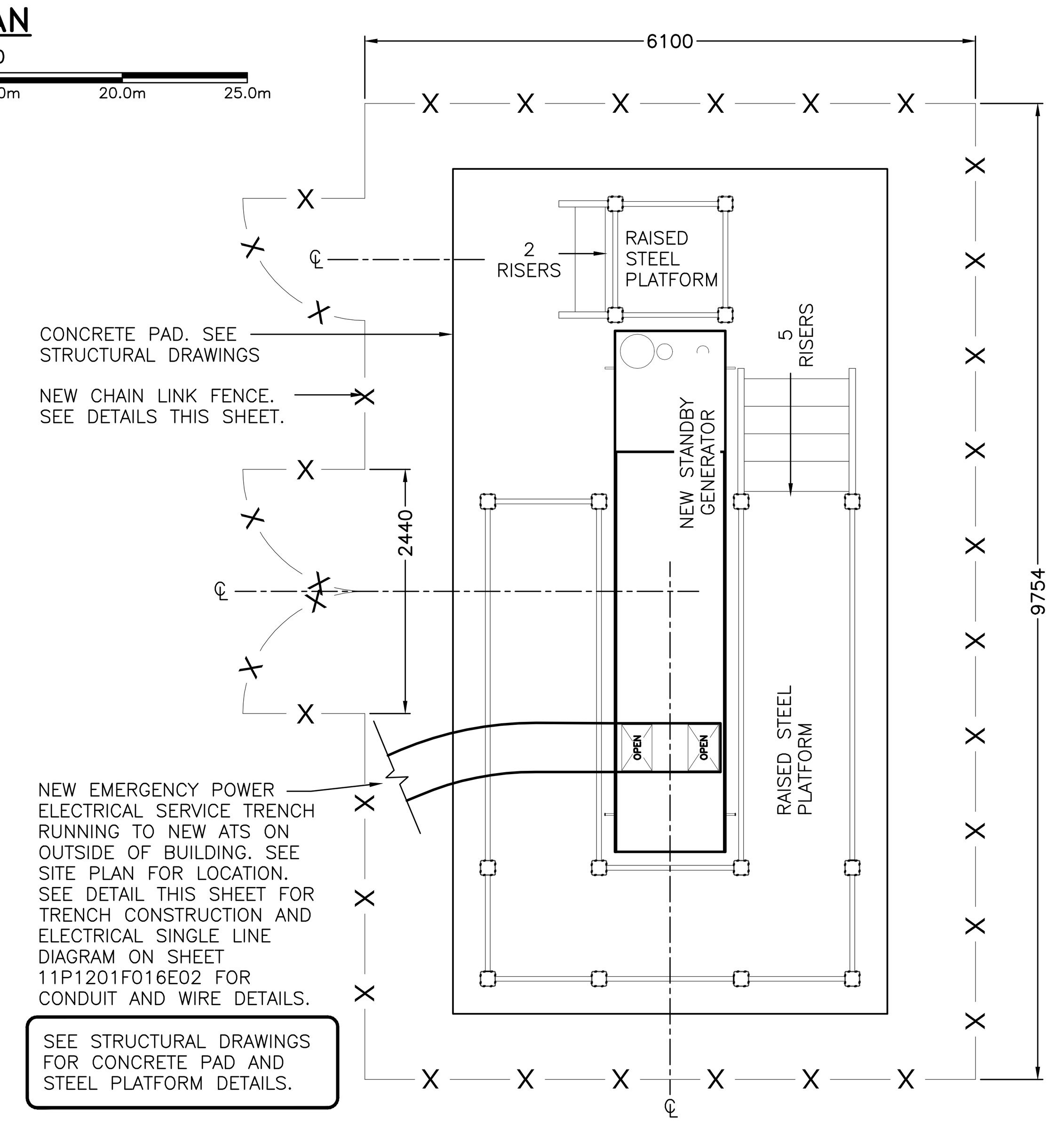
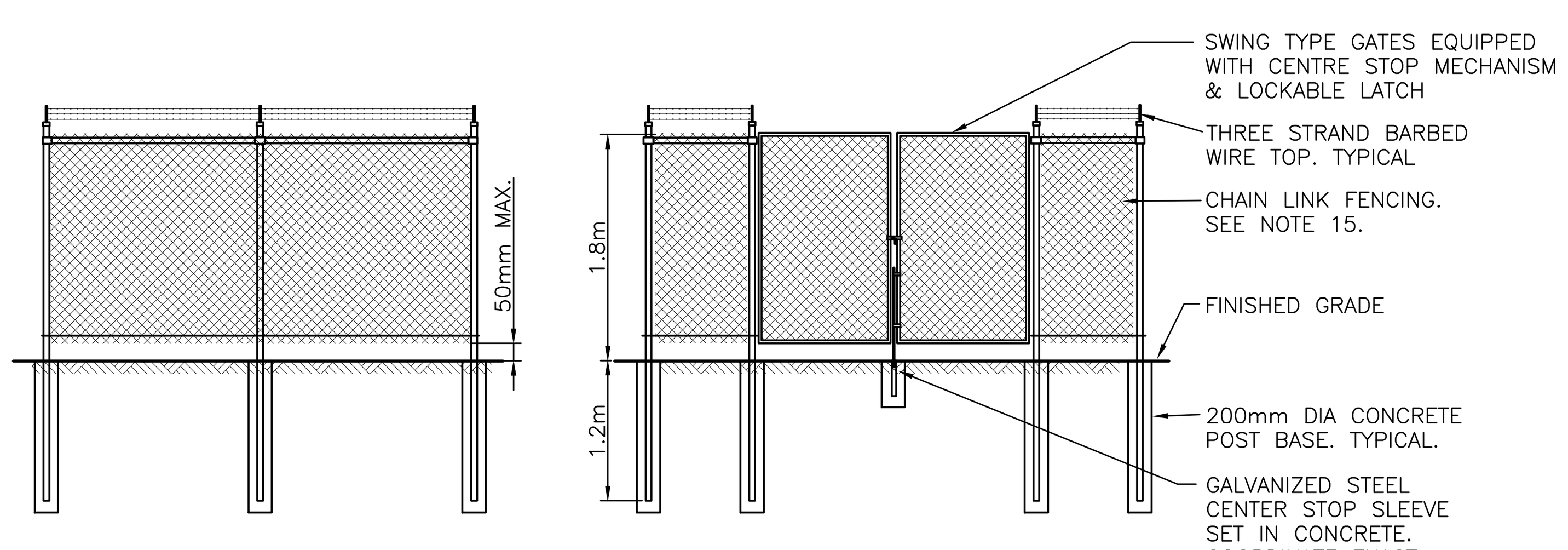


STANDBY GENERATOR DETAIL

SCALE: 1:50

0m 1m 2m 3m 4m 5m



CHAIN LINK FENCE DETAILS

N.T.S.

NOTES cont.

10. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING FROM DISTRIBUTION PANEL "DPA". PROVIDE NEW SUBFEED LUGS IN EXISTING PANEL "DPA" TO ACCOMMODATE NEW UTILITY FEEDER RUNNING TO NEW ATS AND MAKE CONNECTIONS. PROVIDE JUNCTION BOXES FOR EXISTING BRANCH CIRCUIT WIRING AND EXTEND TO NEW DISTRIBUTION PANEL "DPB". PROVIDE APPROVED BLANK COVERS FOR EXISTING BREAKER OPENINGS IN FRONT PANEL OF EXISTING PANEL "DPA". COORDINATE ALL WORK ON EXISTING SWITCHBOARD WITH MANUFACTURER'S REP.
11. OWNERS TO HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT INDICATED TO BE REMOVED. OTHERWISE, SAID EQUIPMENT BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST BE PROMPTLY REMOVED FROM SITE.
12. EXERCISE CAUTION WHEN EXCAVATING AROUND WHARF AND BOAT LAUNCH. DAMAGE TO EXISTING BURIED ANCHORS TO BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED IMMEDIATELY.
13. CONFIGURE REMOTE ANNUNCIATOR FOR NEW GENERATOR SET TO MONITOR NEW ATS. COORDINATE REQUIREMENTS WITH MANUFACTURES REP. CONTRACTOR TO PROVIDE AND INSTALL NEW 27mm EMT CONDUIT AND WIRING FROM ATS TO PANEL. CONDUIT TO BE CONCEALED ABOVE CEILING SPACE WHERE POSSIBLE.
14. PROVIDE LAMICOID NAMEPLATES FOR ALL NEW AND EXISTING ELECTRICAL EQUIPMENT INDICATING NAME OF DEVICE AND ELECTRICAL CHARACTERISTICS AS SOME EXISTING EQUIPMENT MAY OF CHANGED PANELS AND CIRCUIT NUMBERS.
15. CHAIN LINK FENCE TO BE NOT LESS THAN 3.6mm DIA. GALVANIZED STEEL WIRE WITH A MESH OF NOT MORE THAN 50mm. CORNER & GATE POSTS TO BE 89mm DIA. GALVANIZED STEEL (11.31 kg/m MIN.). INTERMEDIATE POSTS SHALL BE NOT LESS THAN 60.3mm DIA. GALVANIZED STEEL (5.44kg/m MIN.) TOP RAILS SHALL BE NOT LESS THAN 42.2mm DIA. GALVANIZED STEEL (3.35kg/m MIN.) BOTTOM OF FENCING TO BE SECURED TO GALVANIZED STEEL WIRE SPANNING POSTS. ALL FITTINGS TO BE APPROVED FOR APPLICATION.
16. PATCH AND MAKE GOOD ALL EXISTING SURFACES DAMAGED BY THIS WORK. REFINISH DAMAGED SURFACES TO MATCH EXISTING.
17. CONDUITS TO RISE UP FROM TRENCH ON OUTSIDE OF EXTERIOR WALL. PROVIDE LB'S. PENETRATE WALL BEHIND NEW ATS. PROVIDE PROTECTIVE BOLLARDS AS INDICATED. PROVIDE DUCT SEAL INSIDE LB'S AT WALL PENETRATION AND SEAL AROUND OUTSIDE OF CONDUIT USING APPROVED SILICONE CAULKING. SEE BOLLARD DETAIL ON SHEET E02.

Fisheries and Oceans Canada   Peches et Oceans Canada

NOTES

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2. DO NOT SCALE DRAWINGS.
3. VERIFY ALL DIMENSIONS, CONDITIONS AND LIMITATIONS ON SITE BEFORE SUBMITTING TENDER. NOTIFY ENGINEER OF ALL DISCREPANCIES FOUND THAT MAY IMPACT CONSTRUCTION.
4. LOCATIONS OF EXISTING SERVICES AND EQUIPMENT INDICATED ON DRAWINGS, INCLUDING UNDERGROUND SERVICES, ARE APPROXIMATED. CONFIRM ACTUAL LOCATIONS OF SERVICES AND EQUIPMENT, INCLUDING UNDERGROUND SERVICES, AFFECTED BY CONSTRUCTION ON SITE BEFORE COMMENCING WORK.
5. FULLY COORDINATE ANY PLANNED INTERRUPTIONS TO EXISTING SERVICES WITH SAR STATION MANAGER. KEEP ANY PLANNED INTERRUPTIONS TO AN ABSOLUTE MINIMUM.
6. CONTRACTOR IS RESPONSIBLE FOR ANY UNPLANNED INTERRUPTIONS OF AND/OR DAMAGE TO EXISTING SERVICES OCCURRING DURING CONSTRUCTION.
7. SEE REVISED SINGLE LINE DIAGRAM ON DRAWING 11P1201F016E02 FOR DESCRIPTION OF UNDERGROUND CONDUITS AND FEEDERS.
8. EXERCISE CAUTION WHEN EXCAVATING NEAR UNDERGROUND ELECTRICAL AND MECHANICAL SERVICE PIPING. COORDINATE INSTALLATION OF NEW UNDERGROUND ELECTRICAL TRENCH WITH EXISTING UNDERGROUND SERVICES. LOCATE NEW AND EXISTING SERVICES ON AS-BUILT DRAWINGS AND NOTE INVERT ELEVATIONS.
9. SEAL OPENINGS AROUND ALL NEW CONDUITS ENTERING OR LEAVING ELECTRICAL ROOMS WITH APPROVED FIRE RETARDANT SEALANT.

STAMP

REGISTERED PROFESSIONAL ENGINEER
PEG Newfoundland and Labrador
Roland Froude
22/06/18
NEWFOUNDLAND & LABRADOR

PERMIT

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
THIS PERMIT ALLOWS
MADERRA ENGINEERING
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG Y0253 which is valid for the year 2018 by Permit Holder (MIRC No.) 02824

0	ISSUED FOR TENDER	22/06/18
A	ISSUED FOR REVIEW	11/05/18
revisions		date

project / projet
EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION BURGEO, NL

drawing / dessin
ELECTRICAL SITE PLAN & DETAILS

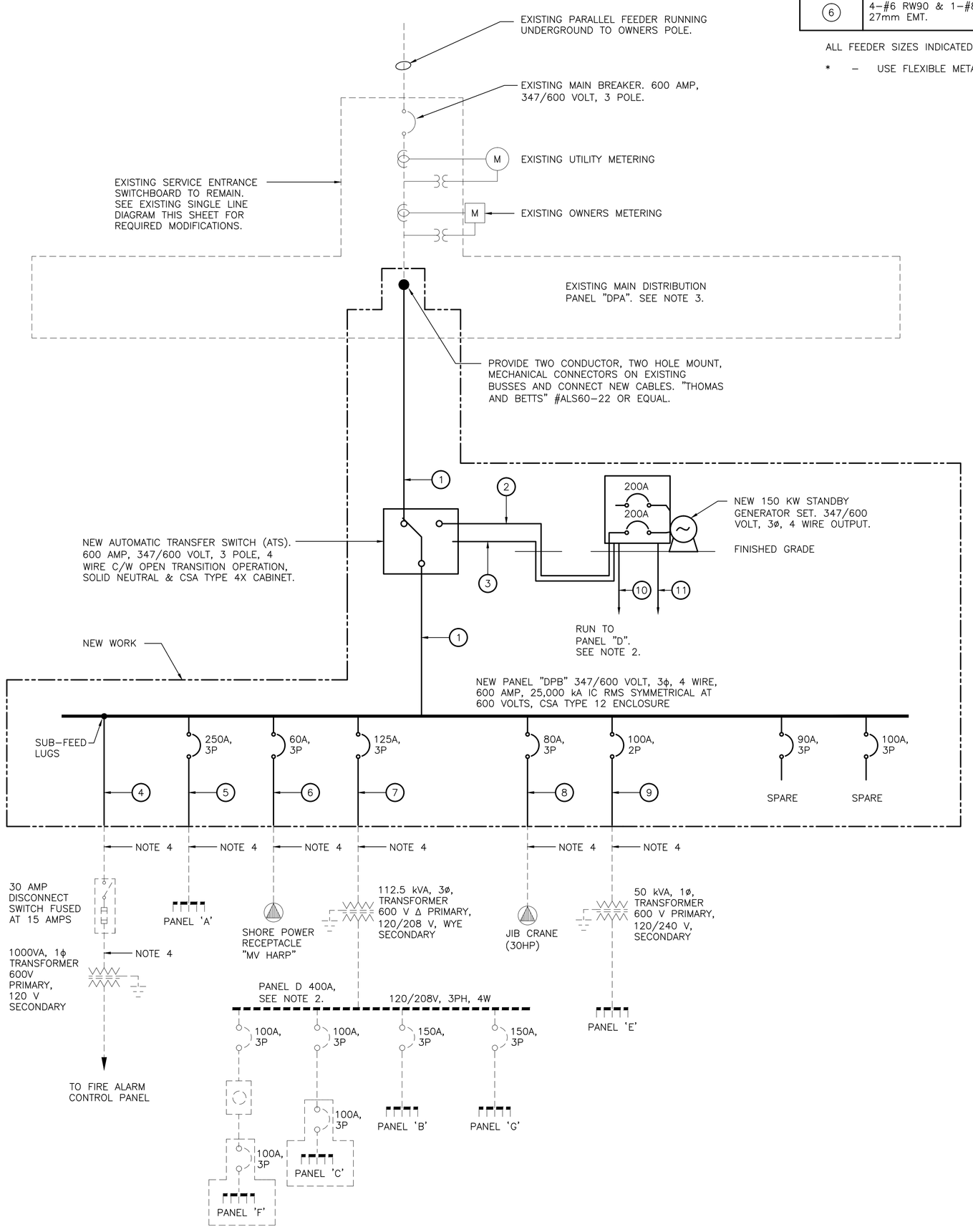
designed CN / concu
date JANUARY 2018
drawn CN / dessine
date JANUARY 2018
approved RF / approuve
JANUARY 2018
Tender / Soumission
DFO Project Manager
project number / no. du projet
F6879–18032
drawing no. / no. du dessin
11P1201F016E01

Plot Scale: 1:1
PWGSC B1
Maderra Document No. AFN027–EL–SI–002–01 REV–B1

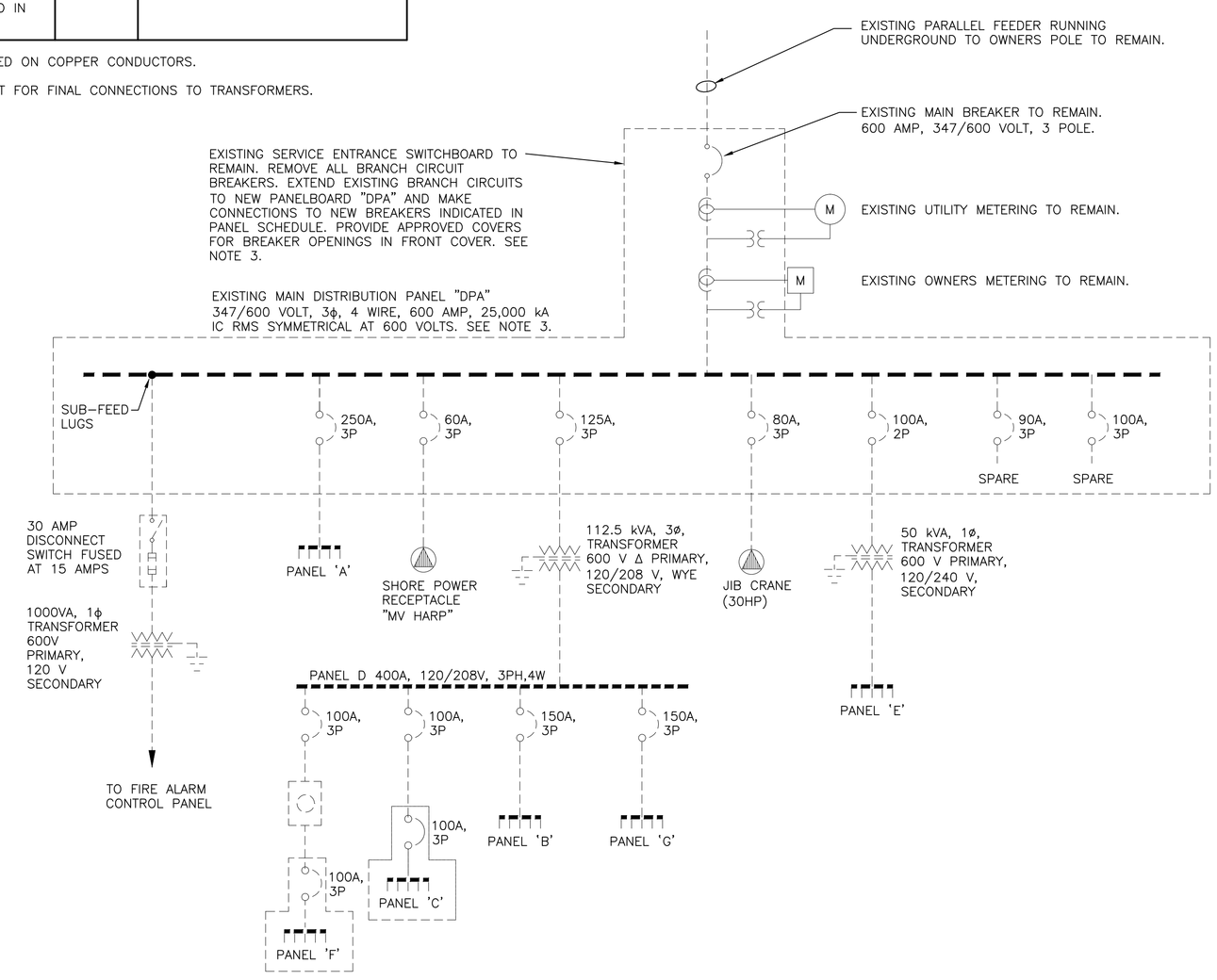
FEEDER SCHEDULE			
(1)	TWO PARALLEL RUNS OF 4–#350 MCM RW90 & 1–#3 TW BOND IN 78mm EMT. CONVERT TO RGS ON EXTERIOR OF BUILDING.	(7)	3–#1 RW90 & 1–#6 TW BOND IN 41mm EMT. *
(2)	4–#3/0 RW90 & 1–#4 TW BOND IN 63mm PVC.	(8)	3–#3 RW90 & 1–#6 TW BOND IN 35mm EMT.
(3)	53mm PVC CONTROL AND COMMUNICATIONS CONDUIT.	(9)	2–#3 RW90 & 1–#6 TW BOND IN 27mm EMT. *
(4)	2–#12 RW90 & 1–#12 TW BOND IN 21mm EMT.	(10)	4–#8 RW90 & 1–#10 TW BOND IN 35mm PVC. CONVERT TO EMT INSIDE BUILDING.
(5)	4–#250 MCM RW90 & 1–#4 TW BOND IN 78mm EMT.	(11)	4–#10 RW90 & 1–#12 TW BOND IN 27mm PVC FROM PANEL D. CONVERT TO EMT INSIDE BUILDING.
(6)	4–#6 RW90 & 1–#8 TW BOND IN 27mm EMT.		

ALL FEEDER SIZES INDICATED ARE BASED ON COPPER CONDUCTORS.

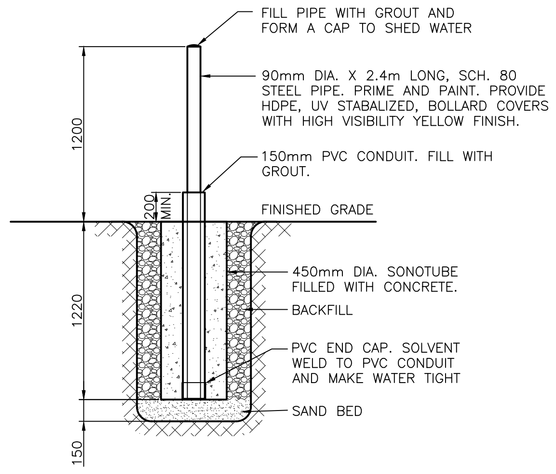
* – USE FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO TRANSFORMERS.



REVISED ELECTRICAL SINGLE LINE DIAGRAM



EXISTING ELECTRICAL SINGLE LINE DIAGRAM



PROTECTIVE BOLLARD

SCALE = 1 : 25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

Plot Scale: 1:1

PWGSC B1

Fisheries and Oceans Canada / Pêches et Océans Canada

MADERRA ENGINEERING
45 HEBRON WAY | SUITE 102 | ST. JOHN'S, NL | A1A 0P9 |
T: 709.739.5002 | F: 709.739.7741 |

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROVIDE TWO NEW 20 AMP, 1 POLE BREAKERS C/W LOCK ON DEVICES, IN EXISTING PANEL "D" AND MAKE CONNECTIONS TO RECEPTACLES LOCATED INSIDE NEW STANDBY GENERATOR ENCLOSURE USING 2–#8 RW90, PER CIRCUIT, & 1–#10 TW BOND. RUN BOTH CIRCUITS IN 1–35mmø PVC CONDUIT UNDERGROUND TO NEW GENERATOR. SEE SITE PLAN FOR LOCATION OF GENERATOR. CONNECT ONE RECEPTACLE TO EACH CIRCUIT. PROVIDE NEW TYPE WRITTEN DIRECTORY FOR PANEL INCLUDING BOTH NEW AND EXISTING CHANGES.
3. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING FROM DISTRIBUTION PANEL "DPA". PROVIDE NEW SUBFEED LUGS IN EXISTING PANEL "DPA" TO ACCOMMODATE NEW UTILITY FEEDER RUNNING TO NEW ATS AND MAKE CONNECTIONS. PROVIDE JUNCTION BOXES FOR EXISTING BRANCH CIRCUIT WIRING AND EXTEND TO NEW DISTRIBUTION PANEL "DPB". PROVIDE APPROVED BLANK COVERS FOR EXISTING BREAKER OPENINGS IN FRONT PANEL OF EXISTING PANEL "DPA". COORDINATE ALL WORK ON EXISTING SWITCHBOARD WITH MANUFACTURER'S REP.
4. CONTRACTOR TO PROVIDE NEW LAMICOIDS MATCHING THE SAME CHARACTERISTICS AS EXISTING. PROVIDE NEW PANEL NUMBER AND CIRCUIT, VOLTAGE RATINGS AS THE PANEL FEEDING DEVICES HAS CHANGED.
5. PROVIDE TWO NEW 20 AMP, 1 POLE BREAKERS C/W LOCK ON DEVICES IN EXISTING PANEL "D", AND MAKE CONNECTIONS FOR HEATERS AND BATTERY CHARGER IN GENERATOR.

STAMP

PROFESSIONAL ENGINEER – NEWFOUNDLAND & LABRADOR – PEGL Newfoundland and Labrador – Richard Fraser – 22/06/18

PERMIT

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To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG YQ253 which is valid for the year 2018 by Permit Holder (MIRC No.) 02624

revisions		date
0	ISSUED FOR TENDER	22/06/18
A	ISSUED FOR REVIEW	11/05/18

project / projet

EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION
BURGEO, NL

drawing / dessin

ELECTRICAL SINGLE LINE DIAGRAM

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date JANUARY 2018
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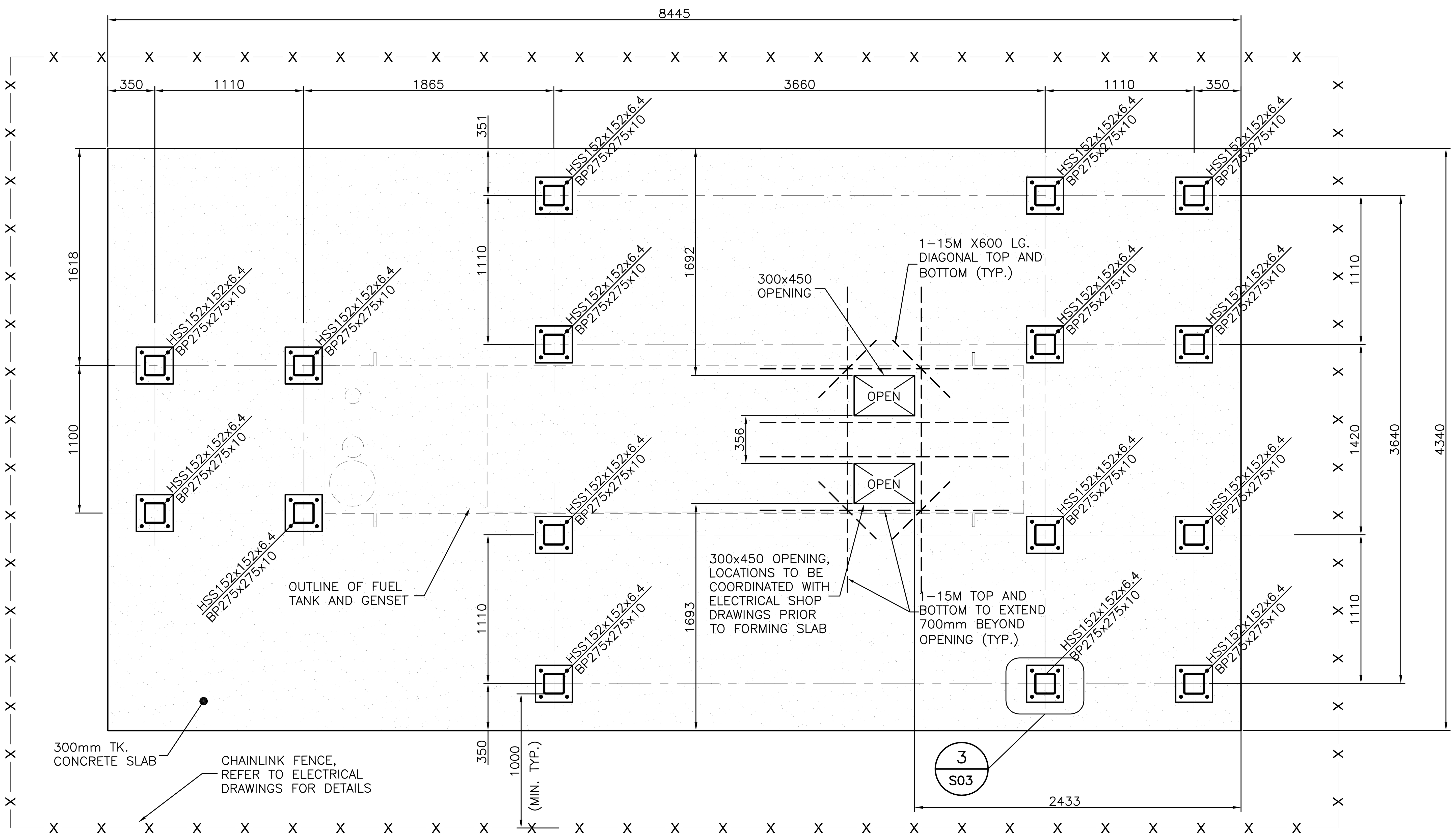
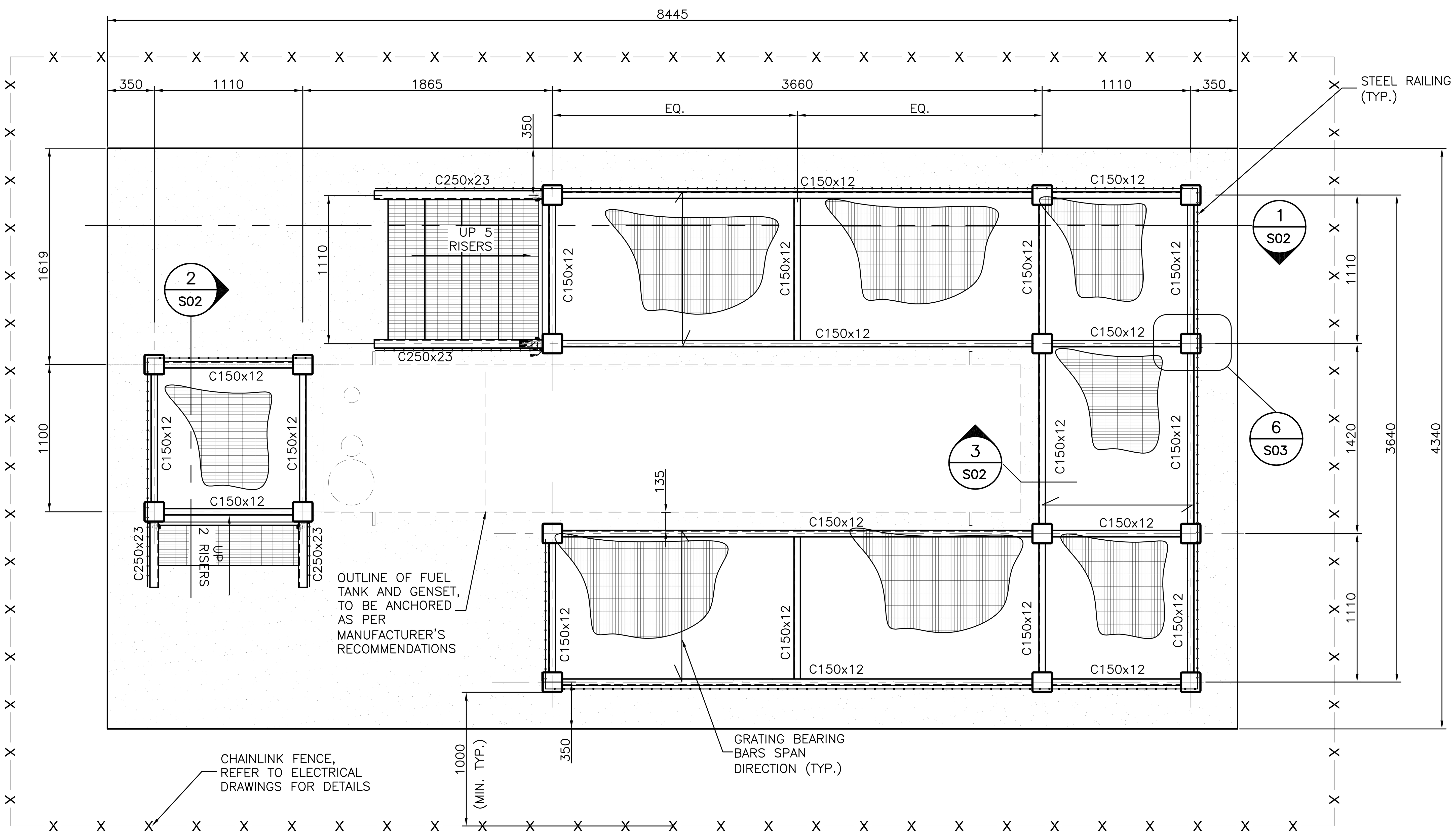
Maderra Document No. AFN027–EL–SL–002–01 REV–B1



EMERGENCY GENERATOR AND FUEL TANK ACCESS PLATFORM
COLUMN, BASEPLATE AND CONCRETE PAD PLAN
SCALE: N.T.S



EMERGENCY GENERATOR AND FUEL TANK ACCESS PLATFORM FRAMING PLAN
SCALE: N.T.S

CONCRETE NOTES

1. CONCRETE MATERIALS, METHODS OF CONCRETE CONSTRUCTION, INCLUDING FALSEWORK TO MEET LATEST EDITIONS OF CSA STANDARDS.
2. CONCRETE COMPRESSIVE STRENGTH TO BE MIN. 30MPa AT 28 DAYS FOR ALL CONCRETE.
3. REBAR TO CONFORM TO CSA G30.18 FY=400 MPa.
4. ALL BAR BENDING DETAILING AND PLACING TO ACI DETAILING MANUAL (ACI SP-66-04), UNLESS NOTED OTHERWISE.
5. LAP HORIZONTAL BARS 36 BAR DIAMETERS AND PROVIDE CORNER BARS AND VERTICAL DOWELS TO MATCH HORIZONTAL AND VERTICAL STEEL, UNLESS NOTED OTHERWISE.
6. CONCRETE COVER TO BE 75mm U.N.O. COVER IS TO BE ACHIEVED BY USING CONCRETE COVER CHAIRS.
7. COLD REQUIREMENTS FOR CASTING IN-PLACE CONCRETE SHOULD BE FOLLOWED.
8. NEW CONCRETE PAD IS NOT TO BE SUBJECTED TO LOADING UNTIL THEY REACH THEIR SPECIFIED COMPRESSIVE DESIGN STRENGTH OR AFTER 28 DAYS.
9. CONCRETE PAD IS DESIGNED FOR A TOTAL MASS OF 13,732 LBS.

STRUCTURAL SLAB CAST ON GRADE NOTES

1. PROOF ROLL AND COMPACT SUBGRADE TO 98% SPMDD.
2. ANY OPENING IN SLABS NOT SHOWN WILL NOT BE PERMITTED UNLESS APPROVED BY STRUCTURAL CONSULTANT.
3. SEE CONCRETE NOTES, STRUCTURAL PLANS AND DETAILS FOR ADDITIONAL INFORMATION, CONCRETE STRENGTHS AND REINFORCEMENT PLACEMENT DETAILS.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL MATERIALS, FABRICATION, ERECTION, INSPECTION AND TESTING SHALL CONFORM TO THE FOLLOWING STANDARDS:
CAN/CSA-S16.1- LIMIT STATES DESIGN OF STEEL STRUCTURES
CAN/CSA-S136- COLD FORMED STEEL STRUCTURAL MEMBERS C.I.S.C. CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL
2. CHANNELS, ANGLES AND PLATES TO CAN/CSA G40.21-M-300W.
3. HSS SECTIONS TO CAN/CSA G40.21-M-350W, CLASS 'C' UNLESS NOTED OTHERWISE.
4. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325M, BEARING GRIP WELDING ELECTRODES TO E70 XXTYPE.
5. ANCHOR BOLTS TO BE SNUG TIGHT.
6. WELDING TO BE METAL-ARC WELDING TO CSA W59 AND SHALL BE UNDERTAKEN ONLY BY FABRICATORS AND ERECTORS APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1.
7. ALL WELD INSPECTIONS TO BE COMPLETED BY A QUALIFIED WELDER AS PER CSA W47.1 AND W59. INSPECTIONS ARE TO BE AS FOLLOWS:
• FILLET WELDS: 100% VISUAL, 20% MPI.
8. PRIMER TO CONFORM TO THE REQUIREMENTS OF CGSB OR CISC/CPMA STANDARDS.
9. GROUT BED UNDER BASE PLATES TO BE 35 MPa NON SHRINK GROUT.
10. CAP HOLLOW STEEL SECTIONS (HSS) WHERE REQUIRED TO PREVENT WATER BUILD-UP AND POSSIBLE FROST DAMAGE.
11. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED WITH BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE.
12. ALL STEEL SHALL RECEIVE A SHOP COAT OF PRIMER EXCEPT SURFACES TO BE CONCRETED, WELDED, LIGHT ZINC COATED OR GALVANIZED.
13. CLEAN ALL FIELD WELDS AFTER ERECTION AND TOUCH UP ALL UNPAINTED SURFACES WITH ONE COAT OF PRIMER PAINT TO MATCH SHOP COAT.
14. THERE SHALL BE NO CUTTING OF THE STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL CONSULTANT.

CALCULATION CRITERION (PER NBCC 2010)

* NOTE: ALL LOADS SPECIFIED BELOW ARE UNFACTORED.

DEAD LOADS:
STEEL GRATING AND FRAMING SELF WEIGHT

LIVE LOAD:
- SLAB: 4.8 KPa
- PLATFORM: 4.8 KPa.

SNOW LOAD: BURGEO, NL
-SLAB: 3.88 KPa

GRATING NOTES

1. USE FISHER & LUDLOW SERRATED TRU-WELD SURFACE GRATING FOR BETTER GRIP SURFACE OF LOAD BEARING BARS OF GRATING PANELS, GRATING TYPE 30 (METRIC).
2. GRATING TO BE HOT DIPPED GALVANIZED.
3. GRATING TO BE COPED AS NECESSARY TO ACCOMMODATE CAP PLATES AND OTHER STRUCTURAL STEEL SECTIONS
4. BEARING BAR SIZE 32 x 3.2 (mm).
5. PANEL LENGTH TO BE SPECIFIED BY FABRICATOR TO SUIT @ STEEL FRAMING MEMBER.
6. EACH GRATING PANEL TO FASTEN TO STEEL FRAME USING MINIMUM 4 TYPE D SADDLE CLIP AT EACH CORNER.
7. DO NOT PLACE LOADS ON THE GRATING AND STEEL SUPPORTS FRAME THAT IS LARGER THAN THE DESIGN LIVE LOAD NOTED ABOVE.

Fisheries and Oceans Canada   Peches et Oceans Canada

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STAMP

REGISTERED PROFESSIONAL ENGINEER
PEG Newfoundland and Labrador
MATTHEW A. SHEPPARD
SIGNATURE
MAY-25-18
DATE
NEWFOUNDLAND & LABRADOR

PERMIT

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
THIS PERMIT ALLOWS
pegnl
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revisions		

project / projet
EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION BURGEO, NL

drawing / dessin
GENERATOR SYSTEM CONCRETE PAD & ACCESS PLATFORM PLANS

designed MS — concu
date MAY 2018
drawn SB — dessine
date MAY 2018
approved MS — approuve
MAY 2018
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Plot Scale: 1:1
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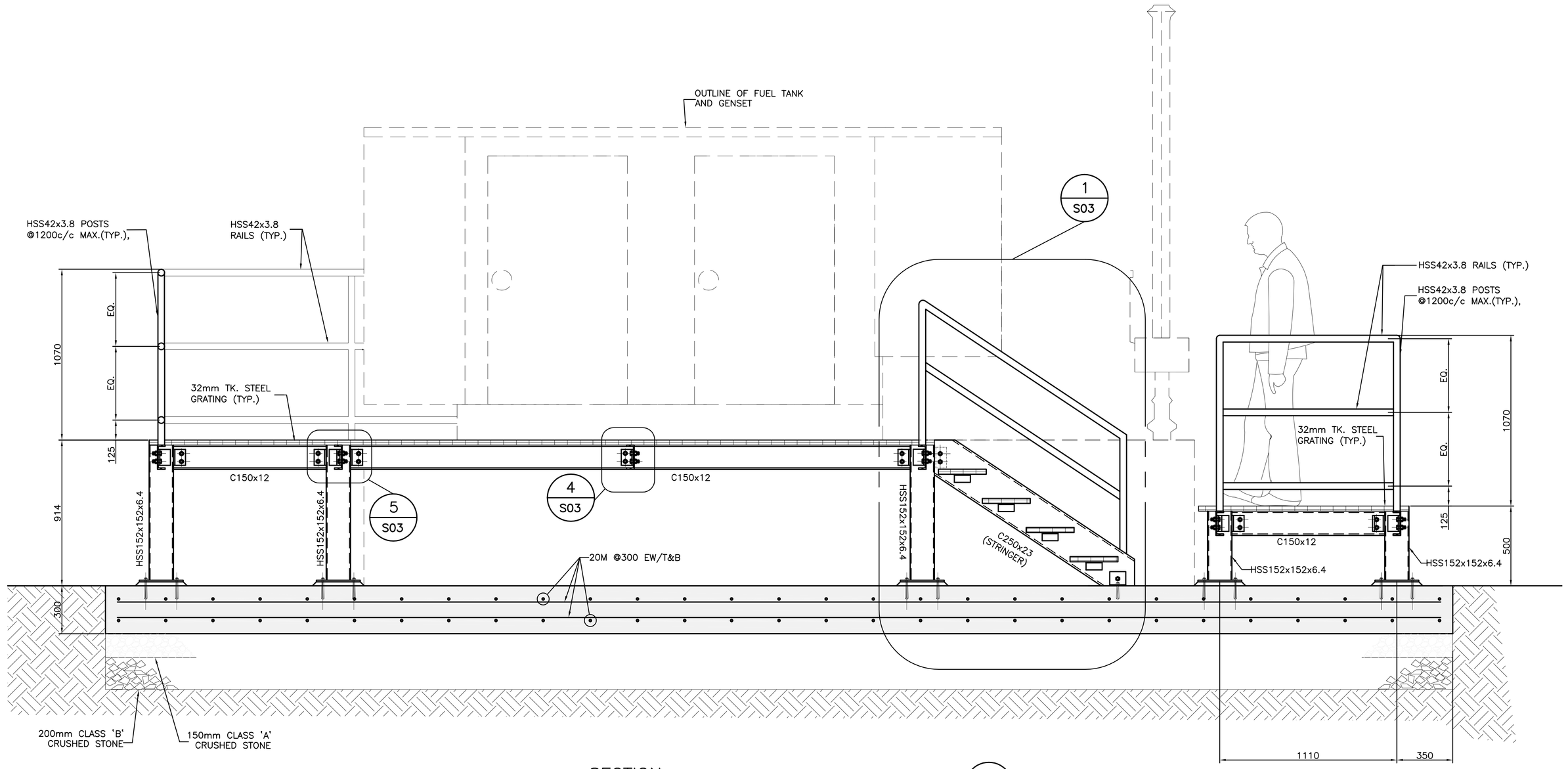
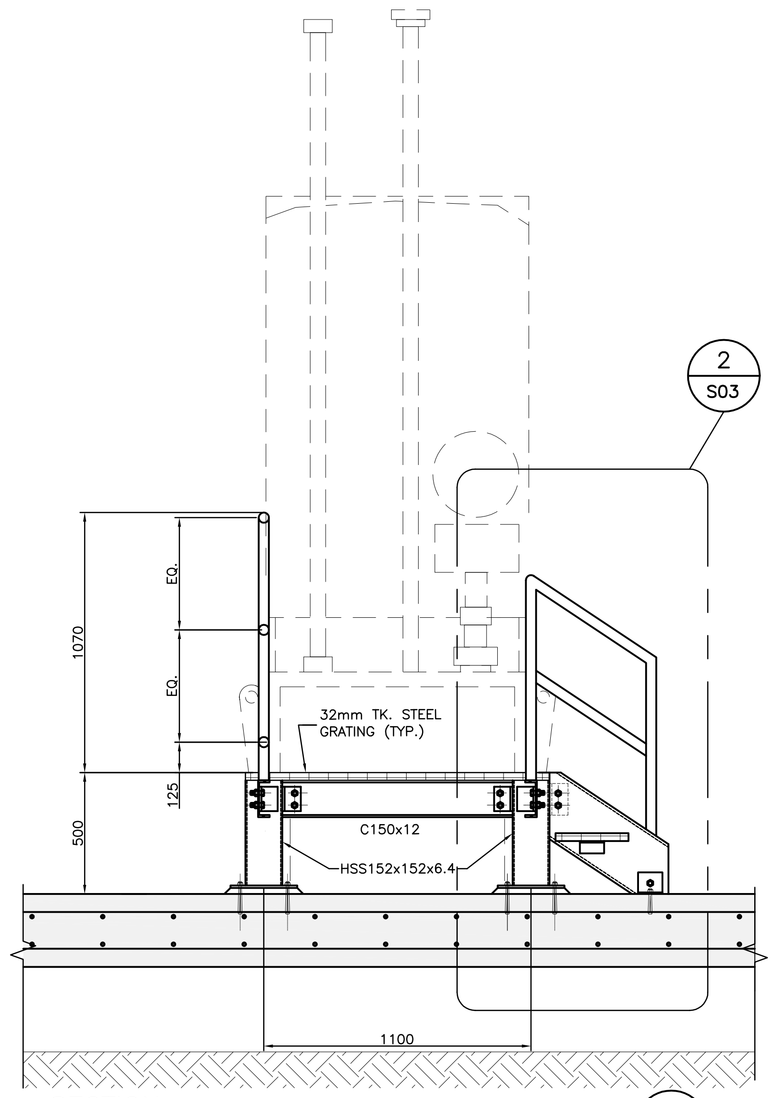
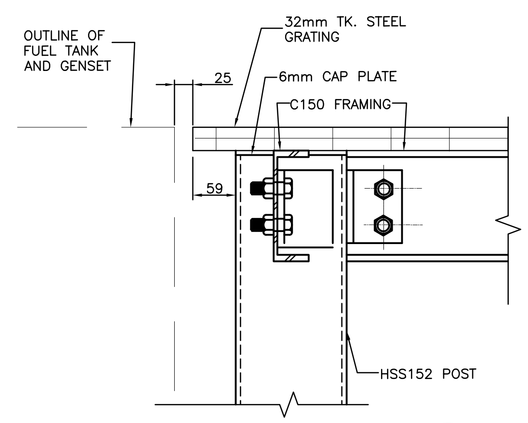


SECTION
SCALE: N.T.S
1 / S02



SECTION
SCALE: N.T.S
2 / S02



SECTION
SCALE: N.T.S
3 / S02

Fisheries and Oceans Canada / Pêches et Océans Canada

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STAMP

REGISTERED PROFESSIONAL ENGINEER
PEGNL Newfoundland and Labrador
MATTHEW A. SHEPPARD
SIGNATURE
MAY-25-18
DATE
NEWFOUNDLAND & LABRADOR

PERMIT

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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MADERRA ENGINEERING
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEG Y0253
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0	ISSUED FOR TENDER	25/05/18
A	ISSUED FOR REVIEW	11/05/18
revisions		date (DD/MM/YY)

project / projet

EMERGENCY GENERATOR SYSTEM FOR SEARCH AND RESCUE STATION BURGEO, NL

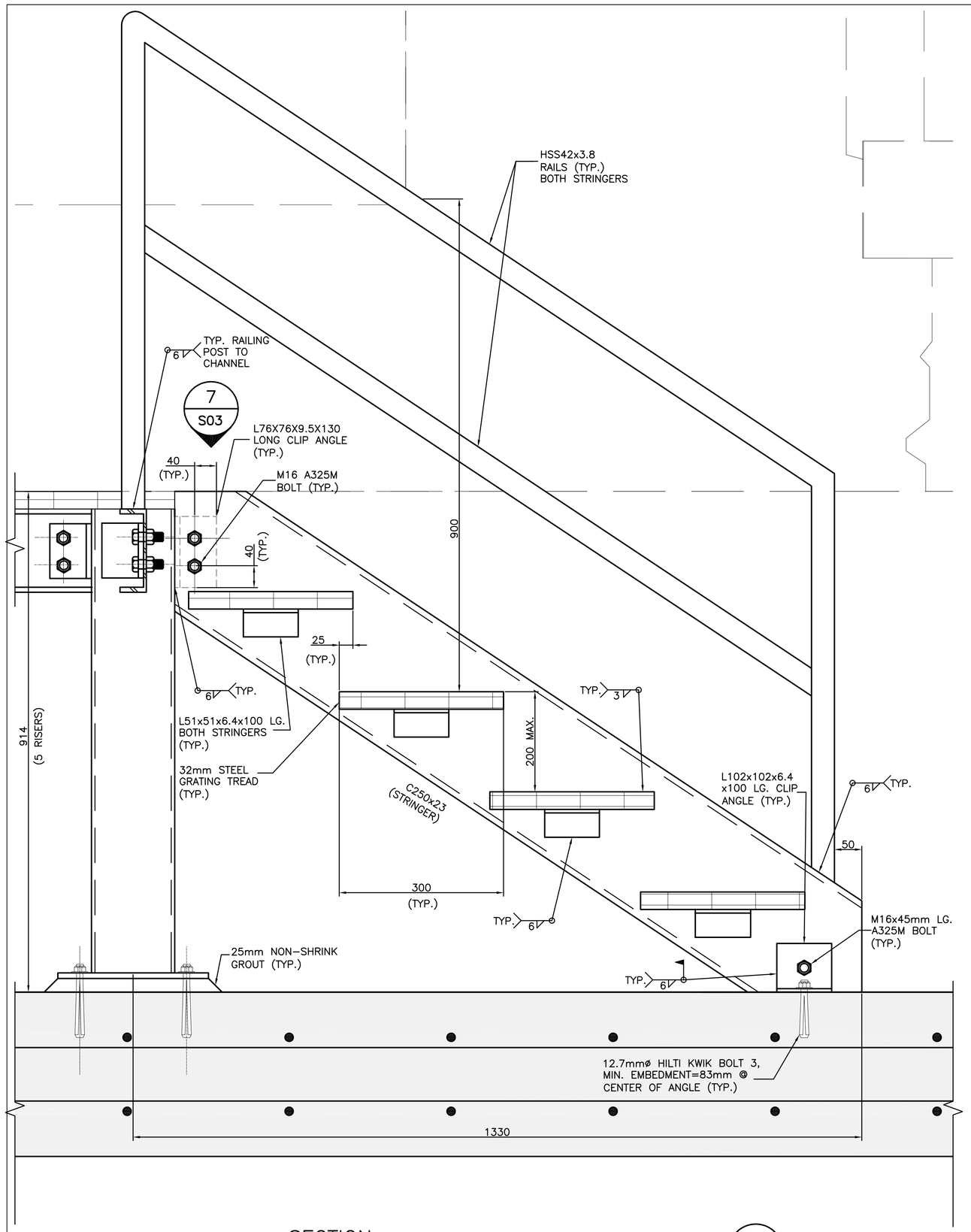
drawing / dessin

GENERATOR SYSTEM CONCRETE PAD & ACCESS PLATFORM SECTIONS

designed MS	concu
date MAY 2018	
drawn SB	dessine
date MAY 2018	
approved MS	approuve
MAY 2018	
Tender	Soumission
DFO Project Manager	
project number	no. du projet
F6879-181032	
drawing no.	no. du dessin
11P1201F016S02	

Plot Scale: 1:1
PWGSC B1

Maderra Document No. AFN027-ST-DT-003-01 REV-B0



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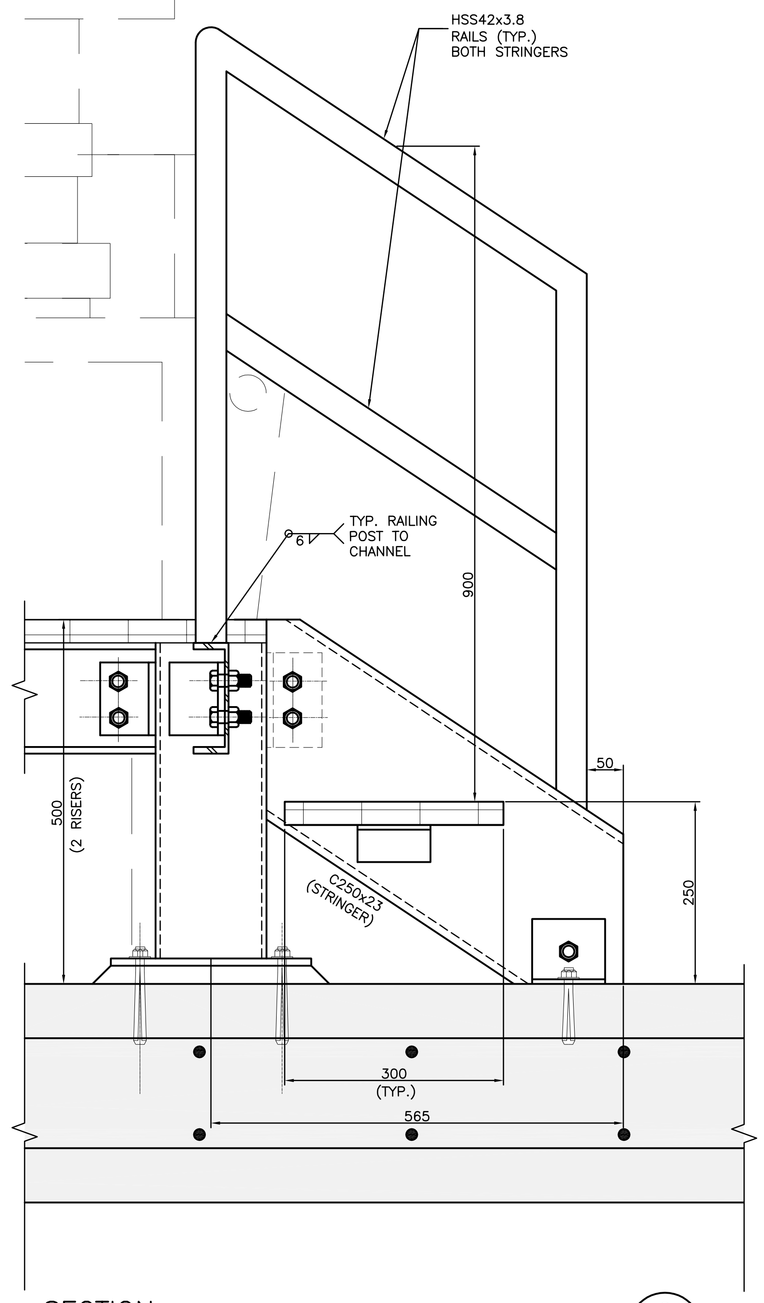

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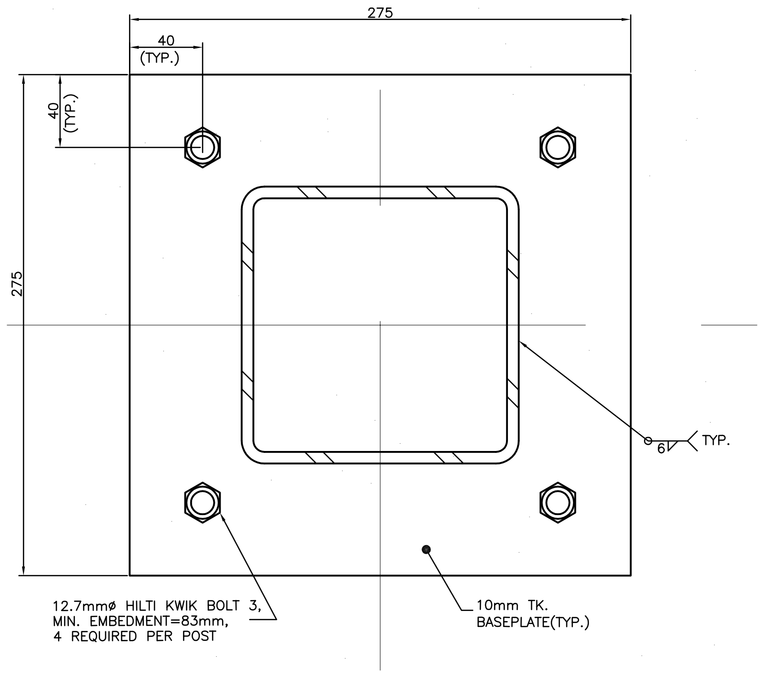
S03



SECTION
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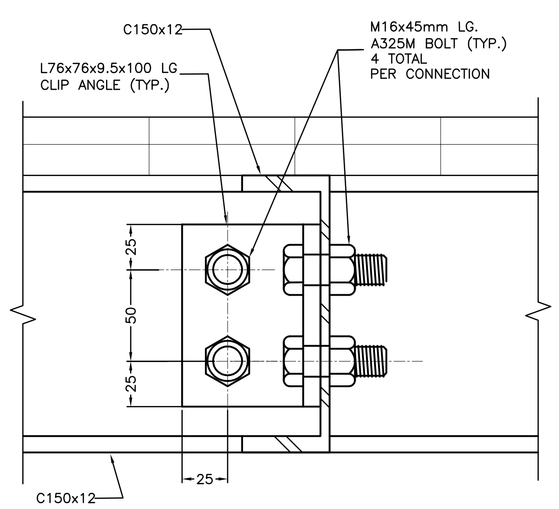
S03



TYPICAL CHANNEL TO CHANNEL CONNECTION DETAIL
SCALE: N.T.S
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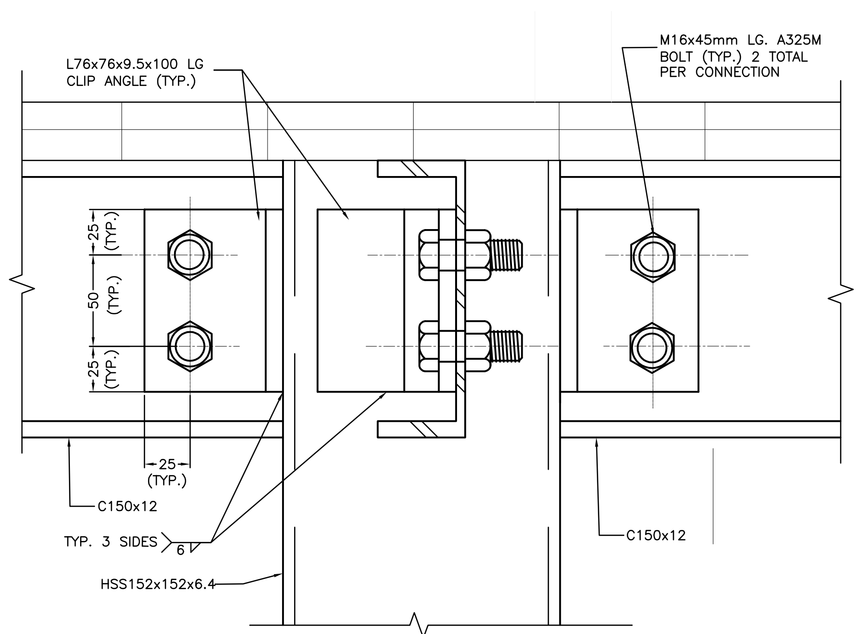
S03



TYPICAL CHANNEL TO COLUMN CONNECTION DETAIL
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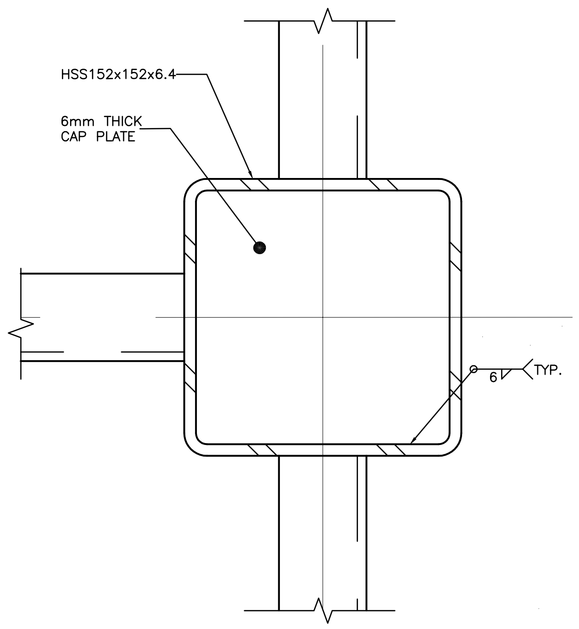
S03



TYPICAL CAP PLATE DETAIL
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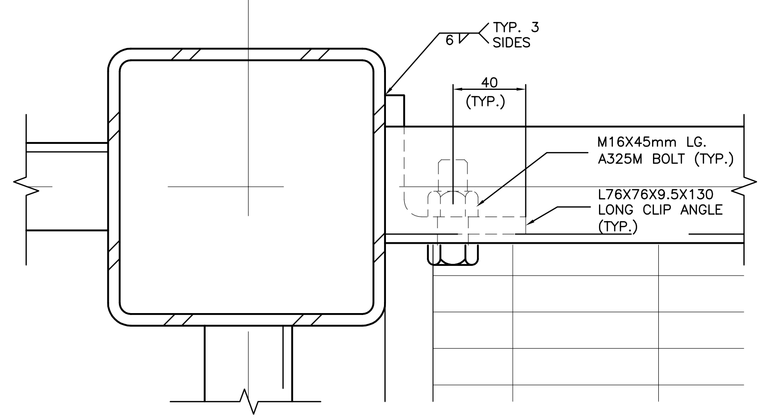

DETAIL
SCALE: N.T.S
7
S03

Plot Scale: 1:1

PWGSC B1

Fisheries and Oceans Canada / Pêches et Océans Canada

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Maderra Document No. AFN027-ST-DT-004-01 REV-B0