

ELECTRICAL DRAWING INDEX						
DRAWING NUMBER	DESCRIPTION	REVISION	DWG FILE NAME	VFPA DRAWING NUMBER		
105716-S00-DMD-ELE-DWG-0001	ELECTRICAL DEMOLITION PLAN	С	105716-S00-DMD-ELE-DWG-0001	332-004-EL-0001		
105716-S00-DMD-ELE-DWG-0002	YARD LIGHTING & ELECTRICAL PLAN	С	105716-S00-DMD-ELE-DWG-0002 to 0006	332-004-EL-0002		
105716-S00-DMD-ELE-DWG-0003	SITE ENLARGEMENTS & DETAILS	С	105716-S00-DMD-ELE-DWG-0002 to 0006	332-004-EL-0003		
105716-S00-DMD-ELE-DWG-0004	LIGHTING CRITERIA AND POLE ELEVATION DETAILS	С	105716-S00-DMD-ELE-DWG-0002 to 0006	332-004-EL-0004		
105716-S00-DMD-ELE-DWG-0005	ELECTRICAL SINGLE LINE DIAGRAM - WEST ELECTRICAL ROOM	С	105716-S00-DMD-ELE-DWG-0002 to 0006	332-004-EL-0005		
105716-S00-DMD-ELE-DWG-0006	ELECTRICAL SINGLE LINE DIAGRAM - EAST ELECTRICAL ROOM	С	105716-S00-DMD-ELE-DWG-0002 to 0006	332-004-EL-0006		

REFERENCE

2024-05-13
Association of Professional
Engineers and Geoscientists
of the Province of
British Columbia

D. S. MOLEAN

ENGINEERING
LICENSEE
Limited Licence
51888

DMD					
	С	2024-03-27	ISSUED FOR PER PERMIT	DMS	MGDS
DMD & Associates ectrical Consultants Ltd.	В	2023-11-07	90% SUBMISSION	DMS	MGDS
#12-17358 104A Avenu Surrey, BC, Canada V4N 5N	Α	2023-09-08	50% SUBMISSION	DMS	MGDS
w.dmdeng.com 604/589-9010 ce@dmdeng.com Fax 604/589-9012	No.	Date	REVISION	Dr'n	Ch'd

DESIGN BY
DONATO SPEIDEL

DRAWN BY
ED KITTSON

APPROVED MARTIN STERLING

DATE 2023-08-02

SCALE 1:1000

VFPA SITE

WCD MARINE YARD BUILD-OUT
COQUITLAM, BC
ELECTRICAL DEMOLITION PLAN

DMD DWG. No.: 7925-23-01

CHECK BEFORE YOU DIG

CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR.

CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.

OVERHEAD POWER LINE CONFLICTS

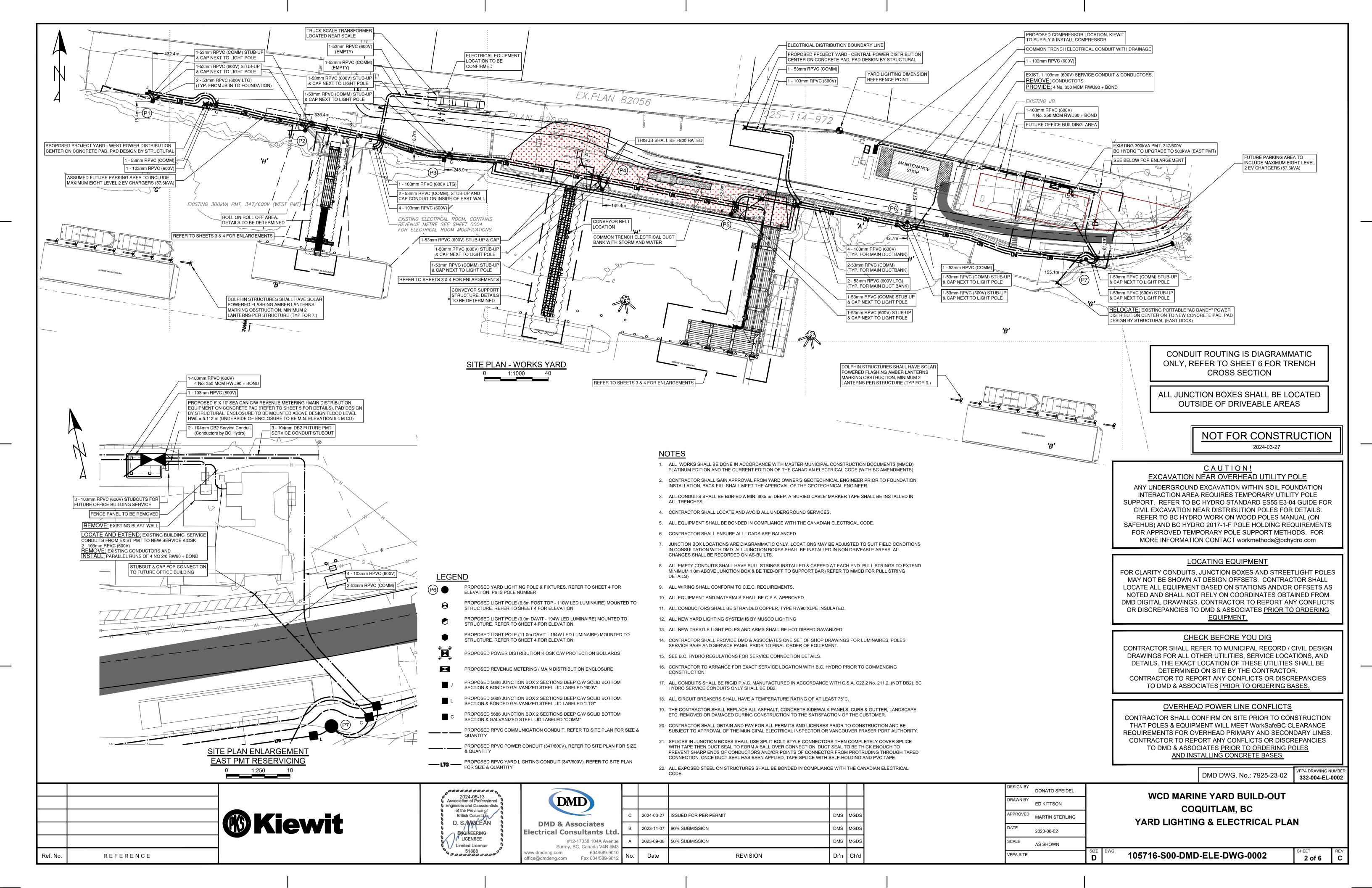
CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

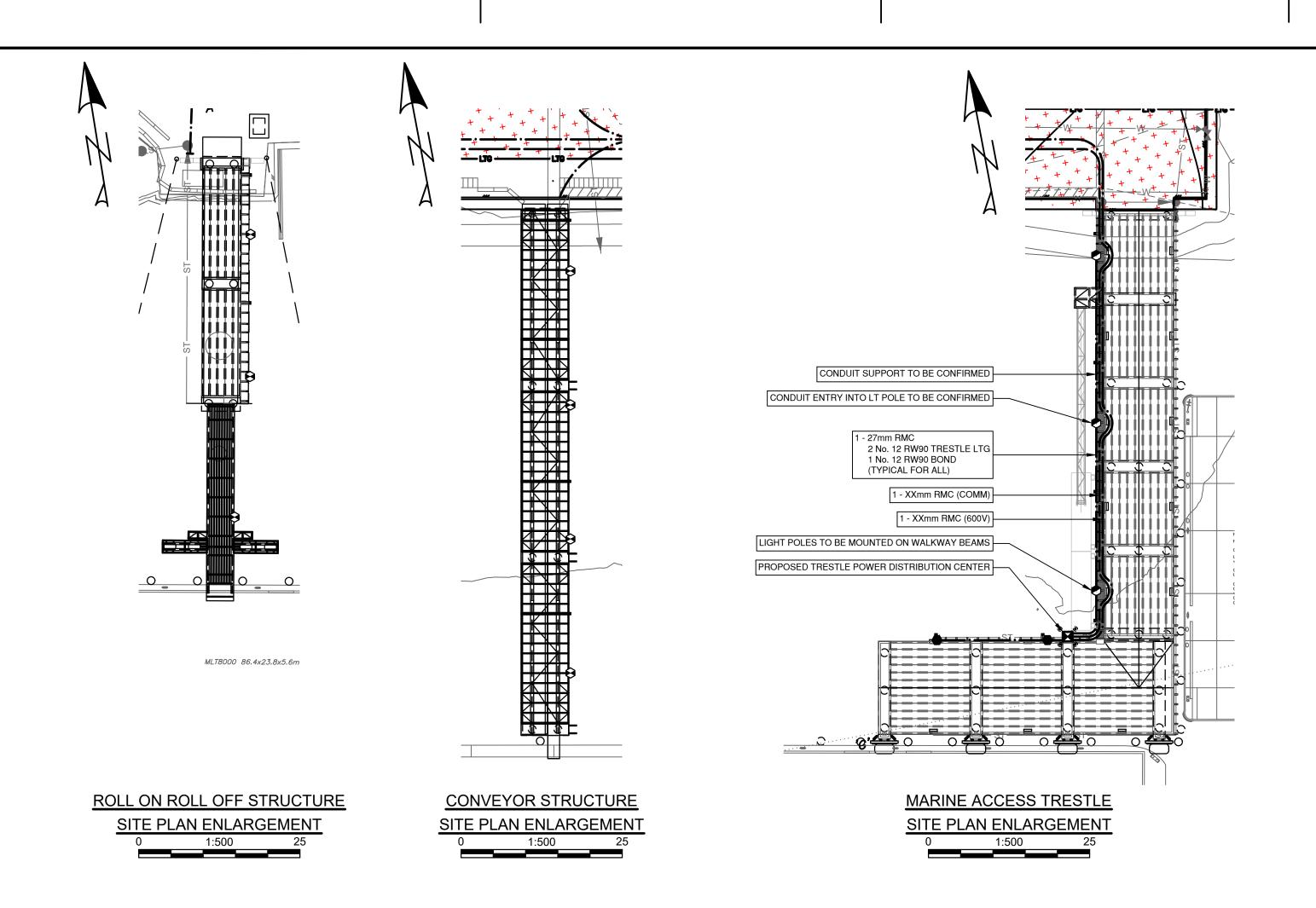
DWG. 105716-S00-DMD-ELE-DWG-0001

SHEET RE

VFPA DRAWING NUMBER

332-004-EL-0001





NOT FOR CONSTRUCTION 2024-03-27

DMD DWG. No.: 7925-23-03

REFERENCE

®Kiewit

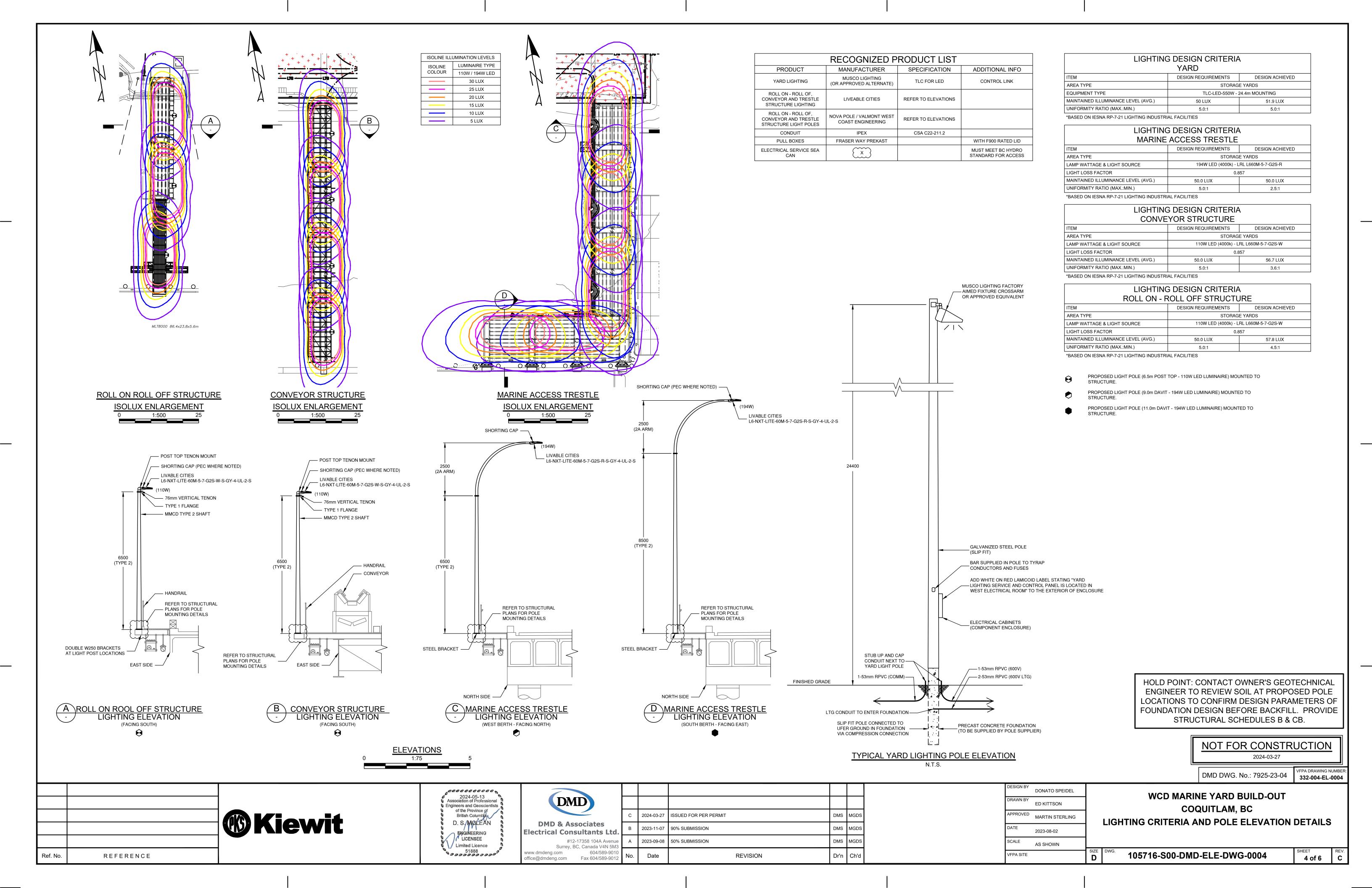
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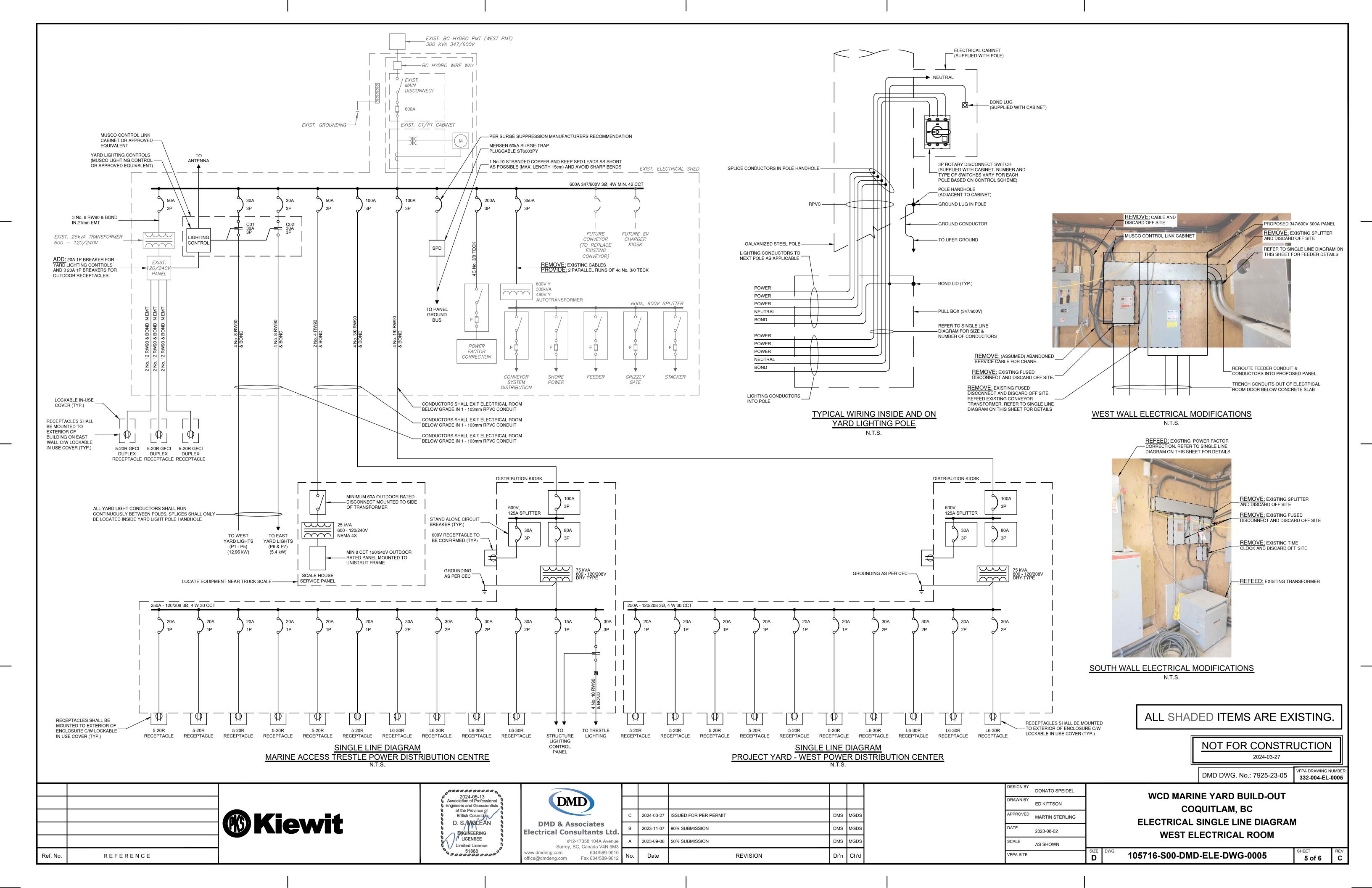
DMD			
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DMD & Associa ctrical Consulta	В	20	
#12-17358 Surrey, BC, Can	104A Avenue	Α	20
v.dmdeng.com	604/589-9010 604/589-9012	No.	

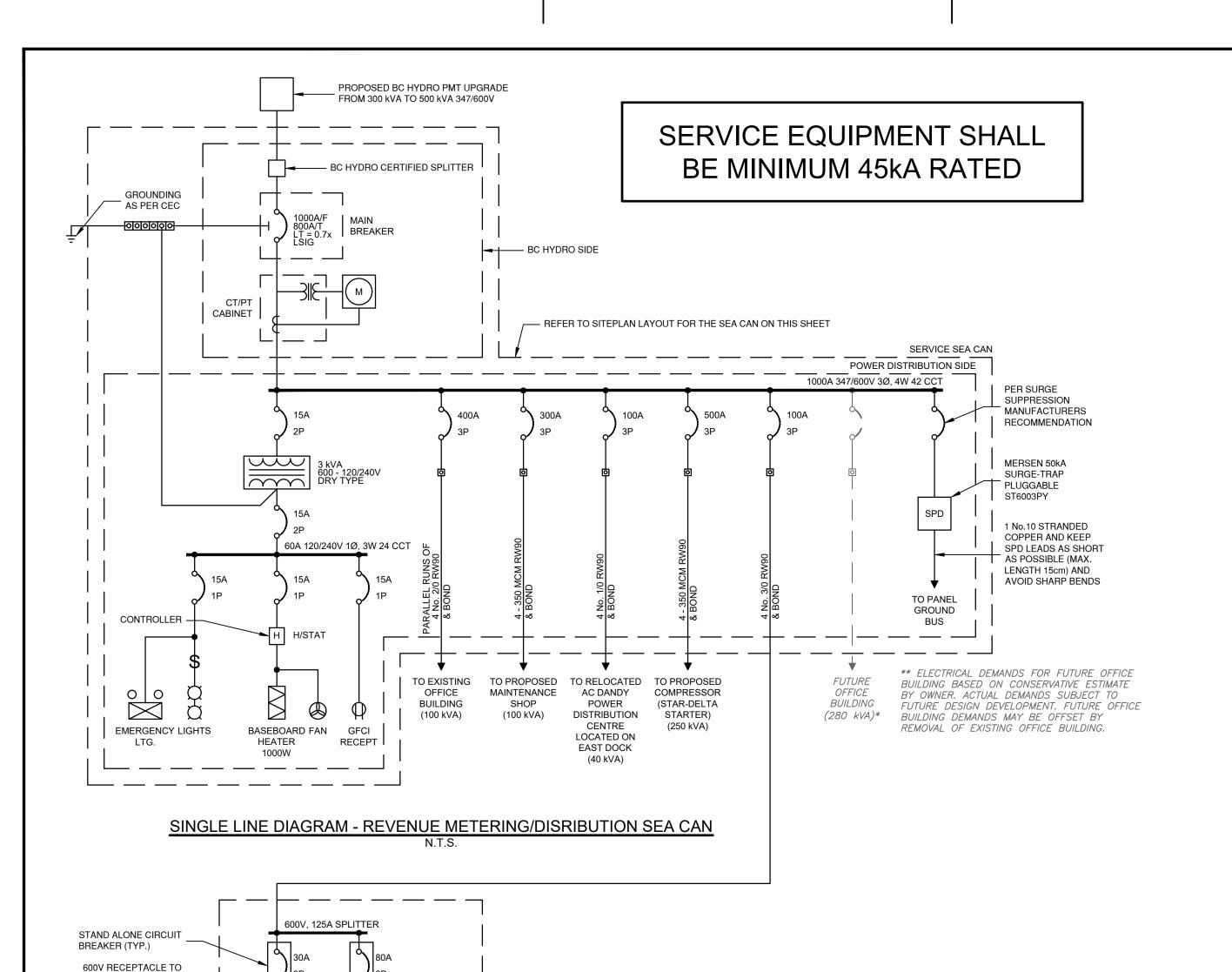
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enue 5M3	Α	2023-09-08	50% SUBMISSION	DMS	MGDS	
9010 9012	No.	Date	REVISION	Dr'n	Ch'd	

VFPA SITE		SIZE	DWG.	105716-S00-DMD-ELE-DWG-0003	
SCALE	AS SHOWN	0175	DWO		
DATE	2023-08-02			OHE ENERICOLINENTO & DETRIES	
APPROVED	MARTIN STERLING		SITE ENLARGEMENTS & DETAILS		
DRAWN BY	ED KITTSON	COQUITLAM, BC			
DESIGN BY	DONATO SPEIDEL		WCD MARINE YARD BUILD-OUT		

JITLAM, BC MENTS & DETAILS SHEET REV. **3 of 6 C**







5-20R

RECEPTACLE

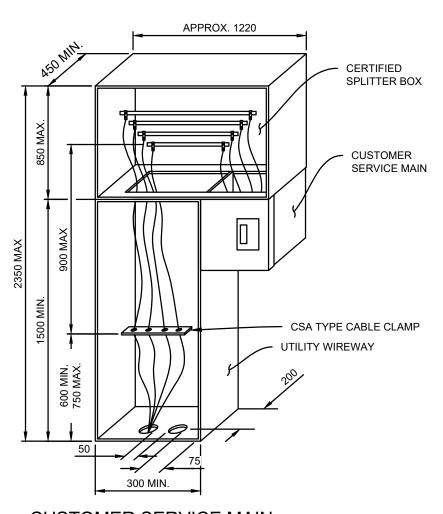
RECEPTACLE

L6-30R

RECEPTACLE

L6-30R

RECEPTACLE



CUSTOMER SERVICE MAIN
BOTTOM ENTRY 347/600V 1200A

REFER TO ES54 S2-01.06 R8

CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF THE SEA-CAN LOCATION ON SITE (IE. GRAVEL PAD). FINAL LOCATION OF THE SEA-CAN SHALL BE COORDINATED WITH KIEWIT

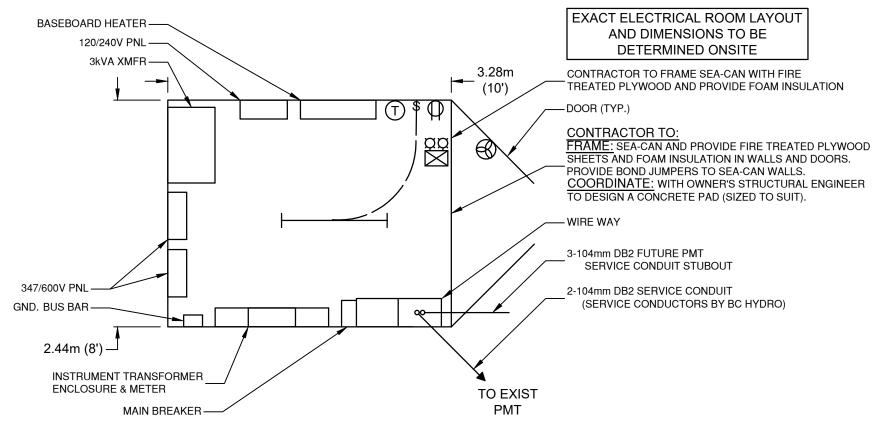
CONTRACTOR SHALL ENSURE THE SEA-CAN MEETS ALL BC HYDRO STANDARDS

DMS MGDS

DMS MGDS

DMS MGDS

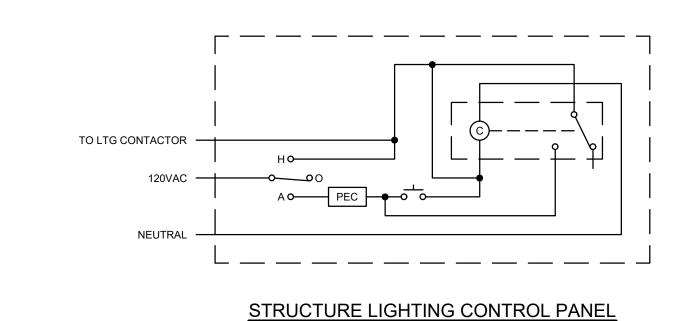
Dr'n Ch'd



ELECTRICAL ROOM EQUIPMENT LAYOUT ENLARGEMENT N.T.S.

NOTES

- 1. BC HYDRO UNDERGROUND DISTRIBUTION SERIES ES53 AND ES54, AND THE CANADIAN ELECTRICAL CODE AND ALL AMENDMENTS AS ISSUED BY THE ELECTRICAL SAFETY BRANCH.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL SAFETY ON SITE DURING CONSTRUCTION PERIOD.
- 3. CONTRACTOR SHALL KEEP A RECORD OF ALL ELECTRICAL INSTALLATION ON DEDICATED SET OF DRAWINGS AND SUBMIT AS BUILT INFORMATION TO ELECTRICAL CONSULTANT (DMD AND ASSOCIATES LTD.) WITHIN 2 WEEKS AFTER END OF CONSTRUCTION. THIS IS A CONDITION OF SUBSTANTIAL PERFORMANCE.
- 4. ALL EQUIPMENT SHALL BE NEW, C.S.A. APPROVED & SHALL BE SUBJECT TO APPROVAL OF THE ELECTRICAL SAFETY
- 5. ALL EQUIPMENT SHALL BE BONDED & GROUNDED AS REQUIRED BY CODE.
- 6. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.
- 7. BEFORE DMD CAN PROVIDE A FINAL INSPECTION THE CONTRACTOR MUST ENSURE THAT THE ENTIRE ELECTRICAL SYSTEM IS FULLY FUNCTIONAL AND THAT SUBSTANTIAL COMPLETION HAS BEEN OBTAINED.
- 8. CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS INCLUDING THE PROVINCIAL ELECTRICAL PERMIT AND LICENSES IN CONNECTION WITH THIS WORK. SUBMIT ALL DRAWINGS REQUIRED BY THE INSPECTION AUTHORITY, FOR APPROVAL PRIOR TO START OF CONSTRUCTION AND PROMPTLY REPORT ANY COMMENTS TO THE ENGINEER.
- 9. CONCRETE PAD FOR SEA-CAN WILL BE PROVIDED BY CIVIL CONTRACTOR.



SURFACE RESTORATION IN GRASS AREAS TO INCLUDE 100mm OF TOPSOIL AND SOD. HARD SURFACES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ASPHALT TRENCHES SHALL BE RESTORED AS PER MMCD STANDARDS. REFER TO CIVIL DRAWINGS FOR ASPHALT TIE-IN DETAIL. TRENCH WIDTH TO SUIT CONDUITS YELLOW TRENCH MARKER TAPE INDICATING "WARNING ELECTRICAL BACKFILL WITH NON-ORGANIC 900mm MINIMUM EXCAVATED MATERIAL - REFER TO SHEET 2 FOR CONDUIT NUMBER AND SIZE —— SEWER, WATER OR OTHER UTILITIES (DEPTH VARIES) POWER DISTRIBUTION — YARD LIGHTING-MINIMUM 300mm SEPARATION (FOR OWNER CONDUIT) MINIMUM 1000mm SEPARATION (FOR BC HYDRO CONDUIT)

CONDUIT INSTALLATION

N.T.S.

CONDUIT INSTALLATION NOTES

- RPVC CONDUIT SHALL CONFORM TO C.S.A. C22.2 No. 211.2. COUPLINGS, ADAPTORS, BENDS AND FITTINGS SHALL BE RPVC AND SHALL CONFORM TO C.S.A. C22.2 No. 85. RPVC CONDUITS SHALL BE INSTALLED WITH C.S.A. CERTIFIED
- 2. CONDUITS SHALL BE INSTALLED SO THEY DRAIN TO PULL BOXES.
- 3. ALL EMPTY CONDUITS SHALL BE CAPPED AND HAVE $6 \mathrm{mm} \varnothing$ NYLON PULL STRING.
- 4. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 98% SPMDD. REFER TO GEOTECHNICAL REPORT FILE NO. 105716-S00-KIE-GEO-RPT-0001 PREPARED BY KIEWIT FOR BACKFILL AND COMPACTION REQUIREMENTS.

NOT FOR CONSTRUCTION
2024-03-27

DMD DWG. No.: 7925-23-06

VFPA DRAWING NUMBE 332-004-EL-0006

Ref. No. REFERENCE

5

5-20R

75 kVA 600 - 120/208V DRY TYPE

5-20R

SINGLE LINE DIAGRAM - PROJECT YARD - CENTRAL POWER DISTRIBUTION CENTRE

RECEPTACLE

RECEPTACLE RECEPTACLE

BE CONFIRMED (TYP)

GROUNDING AS PER CEC -

RECEPTACLES SHALL BE

IN USE COVER (TYP.)

MOUNTED TO EXTERIOR OF

ENCLOSURE C/W LOCKABLE

2024-05-13
Association of Professional
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DISTRIBUTION KIOSK

L6-30R

RECEPTACLE

250A - 120/208 3Ø. 4 W 42 CCT

L6-30R

RECEPTACLE

DESIGN BY
DONATO SPEIDEL

DRAWN BY
ED KITTSON

APPROVED MARTIN STERLING

DATE 2023-08-02

SCALE AS SHOWN

VFPA SITE

WCD MARINE YARD BUILD-OUT
COQUITLAM, BC
ELECTRICAL SINGLE LINE DIAGRAM
EAST ELECTRICAL ROOM

EAST ELECTRICAL ROOM

105716-S00-DMD-ELE-DWG-0006

SHEET
6 of 6